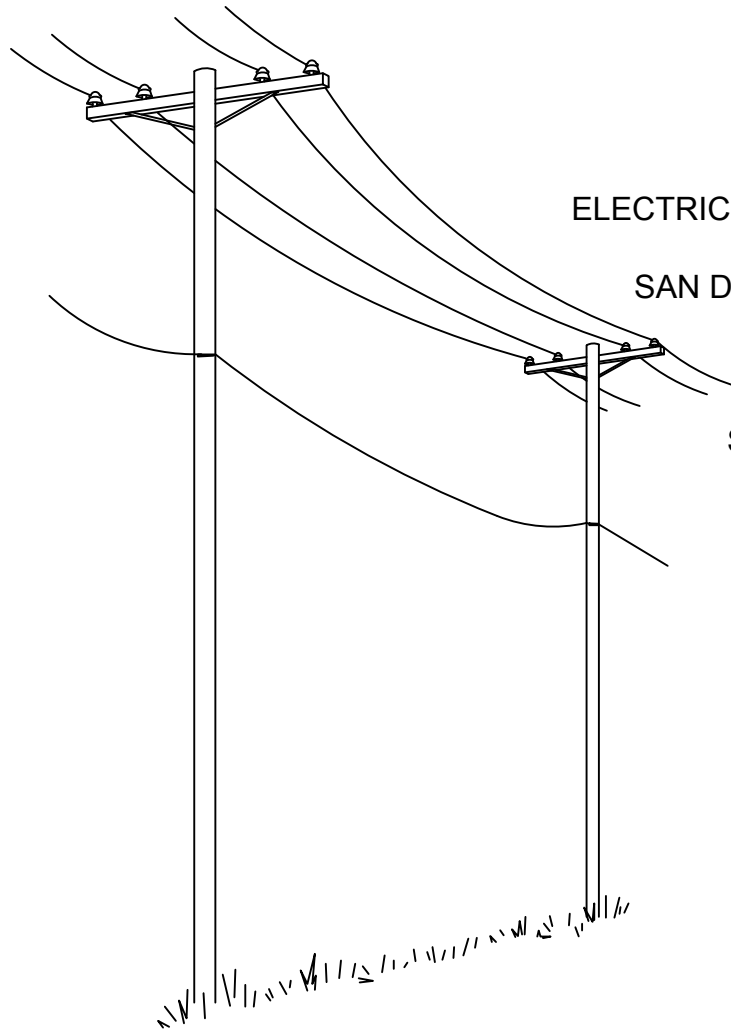


OVERHEAD SAG AND TENSION STANDARDS



SAN DIEGO, CALIFORNIA 92112

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OH805.1

SCOPE: THIS STANDARD CONTAINS A DIRECTORY, GENERAL INFORMATION AND INSTRUCTIONS FOR USE OF THE SAG AND TENSION TABLES CONTAINED IN OVERHEAD STANDARDS 806-824.

THIS MANUAL **PROVIDES** GUIDANCE FOR DESIGNING AND STRINGING THE VARIOUS CONDUCTORS APPROVED FOR INSTALLATION AT SDG&E. THE SAG AND TENSION TABLES HAVE BEEN CALCULATED FOR LIGHT, HEAVY, EXTRA HEAVY LOADING DISTRICTS, AND KNOWN LOCAL WIND CONDITIONS, NORMAL AND REDUCED DESIGN TENSIONS, AND VARIOUS RULING SPAN LENGTHS.

ALL DATA TABLES (f) COMPLY WITH CPUC G.O.95 PUBLICATION RULES AND SDG&E DESIGN PARAMETERS.

A DESCRIPTION OF VARIOUS LOADING DISTRICTS, KNOWN LOCAL WIND CONDITIONS, DETERMINATION AND APPLICATION OF RULING SPAN, AND CONDUCTOR INFORMATION IS ALSO IN THIS MANUAL.

IF A STRINGING SAG/TENSION TABLE WITH DIFFERENT PARAMETERS FROM THOSE CONTAINED IN THIS MANUAL IS NEEDED, CONTACT THE ELECTRIC DISTRIBUTION STANDARDS SECTION, OVERHEAD SYSTEMS GROUP.

JESSE SANDOVAL, SUPERVISOR
ELECTRIC DISTRIBUTION STANDARDS

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CONDUCTOR INFORMATION

CONDUCTOR TYPE	OVERHEAD STANDARD	MAX. HOR. TENSION (LBS)	RULING SPAN (FT)	G.O. 95 LIGHT	G.O. 95 HEAVY	SDG&E EXTRA HEAVY	KNOWN LOCAL WIND 65MPH 85MPH 111MPH
INTRODUCTION	805	850	100 to 500	✓			✓
#2 – 6/1 ACSR/AW Sparrow	806	1240	100 to 500	✓			✓
1/0 – 6/1 ACSR/AW Raven	807	1850	100 to 500	✓			✓
3/0 – 6/1 ACSR/AW Pigeon	808	1000 to 2400	100 to 500	✓			✓
4/0 – 6/1 ACSR/AW Penguin	809	1000 to 3000	100 to 500	✓			✓
336.4 – 26/7 ACSR/AW Linnet	810	1000 to 3000	100 to 500	✓	✓	✓	✓
397.5 – 26/7 ACSR/AW Ibis	811	1000 to 3000	100 to 500	✓	✓	✓	✓
636 – 24/7 ACSR/AW Rook	812	1000 to 3000	100 to 500	✓	✓	✓	✓
1033.5 – 45/7 ACSR/AW Ortolan	813	1000 to 3000	100 to 500	✓	✓	✓	✓
#2 5/2 AWAC	814	1200 to 1800	100 to 500	✓	✓	✓	✓
#2 3/4 AWAC	815	1000 to 3000	100 to 500		✓	✓	✓
#6 3-STRAND BARE COPPER	816	390	100 to 300	✓			✓
#4 3-STRAND BARE COPPER	817	550	100 to 300	✓			✓
#2 3-STRAND BARE COPPER	818	840	100 to 300	✓			✓
1/0 BARE COPPER	819	1340	100 to 500	✓			✓
4/0 BARE COPPER	820	2424	100 to 500	✓			✓
1/0 RTS TRIPLEX	821	1000 to 2000	100 to 500	✓	✓	✓	✓
3/0 RTS TRIPLEX	822	1000 to 2000	100 to 500	✓	✓	✓	✓
336.4 RTS TRIPLEX	823	1000 to 2000	100 to 500	✓	✓	✓	✓

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**SAG & TENSION DATA
FRACTIONS TO INCHES CONVERSION TABLE**

INCHES	FRACTION EQUIVALENT (FOOT)
1	0.08
2	0.17
3	0.25
4	0.33
5	0.42
6	0.50
7	0.58
8	0.67
9	0.75
10	0.83
11	0.92
12	1.00

THE INTENT OF THIS TABLE IS TO PROVIDE AN EASY WAY TO CALCULATE THE VALUES IN INCHES WHEN THE DESIGN TABLES ARE TO BE USED IN THE FIELD.

HOW TO USE THIS TABLE

READ THE VALUE SHOWN IN THE DESIGN TABLE FOR THE APPROPRIATE CONDUCTOR. IF THE VALUE CONTAINS FRACTION OF FEET, COMPARE THAT VALUE TO THE TABLE ABOVE AND READ THE EQUIVALENCE IN INCHES.

IF A FRACTION VALUE IS BETWEEN THOSE IN THIS TABLE, ROUND OFF TO THE NEAREST VALUE.

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NONE

NONE

HOW TO USE DESIGN AND SAG TABLES

I. RULING SPAN

THE SAG AND TENSION DATA PRESENTED IN THIS MANUAL ARE BASED UPON THE ASSUMPTION THAT CONDUCTOR TENSION, AT ANY PARTICULAR TIME, WILL BE THE SAME IN EACH SPAN THROUGHOUT A SERIES OF SPANS OF VARYING LENGTH BETWEEN DEAD-END POLES.

DISTRIBUTION POLES ARE QUITE FLEXIBLE NO MATTER THE MATERIAL (WOOD, STEEL OR FIBERGLASS). THEREFORE, WHEN TEMPERATURE CHANGES OR CHANGES IN LOADING CAUSE DIFFERENT TENSIONS IN SPANS OF DIFFERENT LENGTHS, THE POLES AND CONDUCTOR SUPPORT SYSTEMS ARE FLEXIBLE ENOUGH TO EQUALIZE THESE DIFFERENCES AND THE CONDUCTOR TENSIONS ARE ESSENTIALLY THE SAME IN ALL SPANS.

THUS, IT IS POSSIBLE TO CALCULATE THE LENGTH OF A THEORETICAL SPAN WHICH WILL HAVE THE SAME CHANGES IN CONDUCTOR TENSION DUE TO CHANGES OF TEMPERATURE AND CONDUCTOR LOADING AS WILL BE FOUND IN A SERIES OF SPANS OF VARYING LENGTHS BETWEEN DEAD-ENDS. THIS CALCULATED THEORETICAL SPAN LENGTH IS CALLED THE "RULING SPAN" FOR A SECTION OF LINE BETWEEN DEAD-END POLES.

DETERMINATION OF THE RULING SPAN CAN BEST BE SHOWN BY EXAMPLE:

A PRIMARY LINE EXTENSION IS TO BE BUILT IN A LIGHT LOADING DISTRICT USING 336.4 KCMIL ACSR CONDUCTOR. THE SPAN LENGTHS ARE: 140', 170', 365', 160', 303', AND 200', THE TOTAL LENGTH OF THE LINE EXTENSION IS 1338', THE RULING SPAN CAN BE CALCULATED BY USING THIS FORMULA:

$$RS = \sqrt{\frac{S1^3 + S2^3 + S3^3 + S4^3 + \dots + Sn^3}{S1 + S2 + S3 + S4 + \dots + Sn}} \quad RS = \sqrt{\frac{140^3 + 170^3 + 365^3 + 160^3 + 303^3 + 200^3}{140 + 170 + 365 + 160 + 303 + 200}} = 268$$

RULING SPAN OR RS = 268'

A LINE WITH MANY ANGLES AND/OR DEAD-END POINTS MAY HAVE MULTIPLE RULING SPANS (ONE FOR EACH SECTION OF THE LINE BETWEEN DEAD-ENDS),

NOTE 1:THE LENGTH OF SPANS WITHIN A RULING SPAN SHOULD BE NO MORE THAN TWICE AND NO LESS THAN HALF THAT OF THE RULING SPAN. FOR EXAMPLE: FOR A 200' RULING SPAN, THE MAXIMUM LENGTH OF ANY SPAN SHOULD BE 400' AND THE MINIMUM LENGTH OF ANY SPAN SHOULD BE 100'. LONG SPANS SHOULD BE ADJACENT TO SPANS OF SIMILAR LENGTHS IF TANGENT STRUCTURES ARE BETWEEN THEM. IF THIS CANNOT BE ACCOMPLISHED, A LONG

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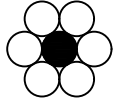
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CONDUCTOR CONFIGURATION INFORMATION

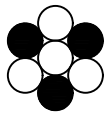
V. THE FOLLOWING IS A BRIEF DESCRIPTION OF THE THREE OVERHEAD CONDUCTOR TYPES USED IN DEVELOPING THE SAG CHARTS CONTAINED IN THIS DOCUMENT:

THERE ARE NUMEROUS CONDUCTORS CURRENTLY IN SERVICE ON SDG&E'S SYSTEM BUT ARE NO LONGER BEING INSTALLED ON NEW JOBS. ⑨

CONTACT EDE FOR ASSISTANCE IF STRINGING CHARTS ARE REQUIRED FOR ANY WIRE NOT CONTAINED IN THIS STANDARD.



A = ACSR/AW: ALUMINUM CONDUCTOR WHICH HAS BEEN STEEL REINFORCED IS ALWAYS STRANDED WITH ONE OR MORE STRANDS OF ALUMINUM CLAD STEEL WIRE IN THE CORE. ACSR/AW SMALLER THAN 636 KCMIL MAY BE INSTALLED TO WITHIN ONE MILE OF THE COAST. 1033 AND 636 KCMIL ACSR/AW MAY BE INSTALLED ON THE COAST. LOADING DISTRICT APPLICATION IS DEPENDENT ON CONDUCTOR SIZE.



W = AWAC: ALUMINUM CONDUCTOR WHICH HAS BEEN STEEL REINFORCED IS ALWAYS STRANDED WITH MORE THAN ONE STRAND OF ALUMINUM CLAD STEEL WIRE. AN AWAC CONDUCTOR HAS A HIGHER ULTIMATE TENSILE STRENGTH THAN AN ACSR CONDUCTOR OF EQUIVALENT SIZE AND IS TO BE USED IN HEAVY OR EXTRA HEAVY LOADING DISTRICTS.



RTS TRIPLEX: ALUMINUM REVERSE TWIST SECONDARY (RTS) CABLE WITH AWAC BARE NEUTRAL MESSENGER. NOT TO BE INSTALLED LESS THAN ONE MILE FROM COAST. MAY BE INSTALLED IN ALL LOADING DISTRICTS BUT IS ESPECIALLY USEFUL IN HEAVY OR EXTRA HEAVY LOADING DISTRICTS BECAUSE OF HIGH ULTIMATE TENSILE STRENGTH.

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VI. THE FOLLOWING IS A DESCRIPTION OF LOADING DISTRICTS AND KNOWN LOCAL WIND CONDITIONS WHICH AFFECT CONSTRUCTION OF SDG&E OVERHEAD FACILITIES ACCORDING TO THE ALTITUDE AND WIND CONDITIONS OF THE CONSTRUCTION AREA

- REFERENCE:**

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CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

850 LB TENSION ----- 806.2

850 LB TENSION ----- 806.10

850 LB TENSION ----- 806.18

850 LB TENSION ----- 806.26

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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	#2 - 6/1 ACSR/AW TABLE OF CONTENTS					

Span = 200 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.228	1.55	736	1.34	850*
25	0	0	0	0.087	0.68	644	0.55	797
30	0	0	0	0.087	0.71	609	0.56	770
40	0	0	0	0.087	0.81	539	0.61	716
50	0	0	0	0.087	0.92	472	0.66	660
60	0	0	0	0.087	1.06	409	0.72	604
70	0	0	0	0.087	1.24	352	0.8	547
80	0	0	0	0.087	1.44	302	0.89	490
90	0	0	0	0.087	1.68	260	1	433
100	0	0	0	0.087	1.93	226	1.15	379
110	0	0	0	0.087	2.14	203	1.32	329
120	0	0	0	0.087	2.25	193	1.53	284
130	0	0	0	0.087	2.37	184	1.77	246
167	0	0	0	0.087	2.8	155	2.7	161
212	0	0	0	0.087	3.35	130	3.27	133
* Design Condition								

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		DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING #2 - 6/1 ACSR/AW TENSION 850 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.228	5.77	791	5.37	850*
25	0	0	0	0.087	3.3	528	2.66	654
30	0	0	0	0.087	3.46	503	2.76	630
40	0	0	0	0.087	3.81	457	2.99	583
50	0	0	0	0.087	4.19	416	3.24	537
60	0	0	0	0.087	4.58	380	3.53	494
70	0	0	0	0.087	4.99	349	3.84	453
80	0	0	0	0.087	5.39	323	4.19	416
90	0	0	0	0.087	5.8	300	4.55	382
100	0	0	0	0.087	6.21	281	4.94	353
110	0	0	0	0.087	6.6	264	5.33	327
120	0	0	0	0.087	6.99	249	5.73	304
130	0	0	0	0.087	7.36	237	6.13	284
167	0	0	0	0.087	8.18	213	7.55	231
212	0	0	0	0.087	9.03	193	8.96	195

* Design Condition

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	DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING #2 - 6/1 ACSR/AW TENSION 850 LBS					

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.228	8.83	808	8.39	850*
25	0	0	0	0.087	5.76	472	4.76	572
30	0	0	0	0.087	5.99	454	4.93	552
40	0	0	0	0.087	6.46	421	5.3	514
50	0	0	0	0.087	6.93	393	5.69	478
60	0	0	0	0.087	7.4	368	6.11	446
70	0	0	0	0.087	7.87	346	6.54	416
80	0	0	0	0.087	8.34	326	6.98	390
90	0	0	0	0.087	8.8	309	7.44	366
100	0	0	0	0.087	9.25	294	7.89	345
110	0	0	0	0.087	9.69	281	8.35	326
120	0	0	0	0.087	10.13	269	8.8	309
130	0	0	0	0.087	10.55	258	9.25	294
167	0	0	0	0.087	11.71	233	10.83	252
212	0	0	0	0.087	12.69	215	12.59	216
* Design Condition								

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING

#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.4

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4
125.00	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6
150.00	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-9
175.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0
200.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-1	1-4

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-2	0-2	0-3	0-3	0-4	0-4
100.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-7
125.00	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-9	0-11	1-0
150.00	0-4	0-5	0-5	0-6	0-7	0-8	0-10	1-1	1-4	1-5
175.00	0-6	0-6	0-7	0-8	0-10	0-11	1-2	1-6	1-9	1-11
200.00	0-7	0-8	0-9	0-11	1-0	1-3	1-6	1-11	2-4	2-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.5

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4
125.00	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6
150.00	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9
175.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-11	1-0
200.00	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-4
225.00	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-3	1-5	1-8
250.00	0-10	0-11	0-11	1-0	1-2	1-3	1-5	1-7	1-10	2-1

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-6
125.00	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10
150.00	0-4	0-5	0-5	0-6	0-7	0-8	0-10	0-11	1-1	1-2
175.00	0-6	0-7	0-7	0-8	0-10	0-11	1-1	1-3	1-6	1-8
200.00	0-8	0-9	0-10	0-11	1-1	1-3	1-5	1-8	1-11	2-2
225.00	0-10	0-11	1-0	1-2	1-4	1-7	1-10	2-1	2-5	2-9
250.00	1-0	1-1	1-3	1-5	1-8	1-11	2-3	2-7	3-0	3-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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SHEET 6 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH806.6
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING #2 - 6/1 ACSR/AW TENSION 850 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9
175.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0
200.00	0-7	0-7	0-8	0-9	0-9	0-10	1-0	1-1	1-2	1-4
225.00	0-9	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-6	1-8
250.00	0-11	1-0	1-0	1-2	1-3	1-4	1-6	1-8	1-10	2-1
275.00	1-1	1-2	1-3	1-4	1-6	1-8	1-10	2-0	2-3	2-6
300.00	1-3	1-5	1-6	1-7	1-9	1-11	2-2	2-5	2-8	3-0
325.00	1-6	1-7	1-9	1-11	2-1	2-4	2-7	2-10	3-2	3-6
350.00	1-9	1-11	2-0	2-3	2-5	2-8	2-11	3-3	3-8	4-1
375.00	2-0	2-2	2-4	2-6	2-9	3-1	3-5	3-9	4-2	4-8

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0
175.00	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-2	1-3	1-5
200.00	0-8	0-9	0-10	1-0	1-1	1-3	1-5	1-6	1-8	1-10
225.00	0-11	1-0	1-1	1-3	1-5	1-7	1-9	1-11	2-1	2-4
250.00	1-1	1-3	1-4	1-6	1-9	1-11	2-2	2-5	2-7	2-10
275.00	1-4	1-6	1-8	1-10	2-1	2-4	2-7	2-11	3-2	3-5
300.00	1-7	1-9	2-0	2-2	2-6	2-9	3-1	3-5	3-9	4-1
325.00	1-10	2-1	2-4	2-7	2-11	3-3	3-8	4-0	4-5	4-10
350.00	2-2	2-5	2-8	3-0	3-5	3-9	4-3	4-8	5-2	5-7
375.00	2-5	2-9	3-1	3-5	3-11	4-4	4-10	5-5	5-11	6-5

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New Page

Information Removed

SHEET
7 OF 33

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.7

Stringing Sag Table Using Initial Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
225.00	0-10	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-7	1-8
250.00	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-9	1-11	2-1
275.00	1-3	1-4	1-5	1-6	1-8	1-10	2-0	2-2	2-4	2-6
300.00	1-5	1-7	1-8	1-10	2-0	2-2	2-4	2-7	2-9	3-0
325.00	1-8	1-10	2-0	2-2	2-4	2-6	2-9	3-0	3-3	3-6
350.00	2-0	2-1	2-3	2-6	2-8	2-11	3-2	3-6	3-9	4-1
375.00	2-3	2-5	2-7	2-10	3-1	3-5	3-8	4-0	4-4	4-8
400.00	2-7	2-9	3-0	3-3	3-6	3-10	4-2	4-7	4-11	5-4
425.00	2-11	3-1	3-4	3-8	4-0	4-4	4-9	5-2	5-7	6-0
450.00	3-3	3-6	3-9	4-1	4-6	4-10	5-4	5-9	6-3	6-9
475.00	3-7	3-11	4-3	4-7	5-0	5-5	5-11	6-5	7-0	7-6
500.00	4-0	4-4	4-8	5-1	5-6	6-0	6-7	7-1	7-9	8-4

Stringing Sag Table Using Final Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-9	0-10	0-11	1-1	1-2	1-3	1-4	1-5	1-7	1-8
225.00	1-0	1-1	1-2	1-4	1-5	1-7	1-8	1-10	2-0	2-1
250.00	1-3	1-4	1-6	1-8	1-9	1-11	2-1	2-3	2-5	2-7
275.00	1-6	1-8	1-10	2-0	2-2	2-4	2-7	2-9	2-11	3-1
300.00	1-9	1-11	2-2	2-4	2-7	2-10	3-0	3-3	3-6	3-9
325.00	2-1	2-3	2-6	2-9	3-0	3-3	3-7	3-10	4-1	4-4
350.00	2-5	2-8	2-11	3-2	3-6	3-10	4-2	4-5	4-9	5-1
375.00	2-9	3-1	3-4	3-8	4-0	4-5	4-9	5-1	5-5	5-10
400.00	3-2	3-6	3-10	4-2	4-7	5-0	5-5	5-10	6-2	6-7
425.00	3-7	3-11	4-4	4-9	5-2	5-8	6-1	6-7	7-0	7-5
450.00	4-0	4-5	4-10	5-4	5-10	6-4	6-10	7-4	7-10	8-4
475.00	4-5	4-11	5-5	5-11	6-6	7-0	7-7	8-2	8-9	9-4
500.00	4-11	5-5	5-11	6-7	7-2	7-9	8-5	9-1	9-8	10-4

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A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					

SHEET 8 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH806.8
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING #2 - 6/1 ACSR/AW TENSION 850 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-10	2-0	2-1
275.00	1-5	1-6	1-7	1-9	1-10	2-0	2-1	2-3	2-5	2-6
300.00	1-8	1-9	1-11	2-1	2-2	2-4	2-6	2-8	2-10	3-0
325.00	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-2	3-4	3-6
350.00	2-3	2-5	2-7	2-9	3-0	3-2	3-5	3-8	3-10	4-1
375.00	2-7	2-9	3-0	3-2	3-5	3-8	3-11	4-2	4-5	4-8
400.00	2-11	3-2	3-5	3-8	3-11	4-2	4-6	4-9	5-1	5-4
425.00	3-4	3-7	3-10	4-1	4-5	4-9	5-1	5-4	5-8	6-0
450.00	3-9	4-0	4-3	4-7	4-11	5-4	5-8	6-0	6-5	6-9
475.00	4-2	4-5	4-9	5-2	5-6	5-11	6-4	6-9	7-1	7-6
500.00	4-7	4-11	5-4	5-8	6-1	6-6	7-0	7-5	7-11	8-4
525.00	5-1	5-5	5-10	6-3	6-9	7-3	7-8	8-2	8-8	9-2
550.00	5-7	6-0	6-5	6-11	7-5	7-11	8-5	9-0	9-7	10-1
575.00	6-1	6-6	7-0	7-6	8-1	8-8	9-3	9-10	10-5	11-1
600.00	6-7	7-1	7-8	8-2	8-10	9-5	10-1	10-9	11-4	12-0
625.00	7-2	7-8	8-3	8-11	9-6	10-3	10-11	11-7	12-4	13-1

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-5	1-6	1-7	1-9	1-10	2-0	2-1	2-2	2-4	2-5
275.00	1-8	1-10	1-11	2-1	2-3	2-5	2-6	2-8	2-10	2-11
300.00	2-0	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6
325.00	2-4	2-6	2-9	2-11	3-2	3-4	3-6	3-9	3-11	4-1
350.00	2-9	2-11	3-2	3-5	3-8	3-10	4-1	4-4	4-6	4-9
375.00	3-1	3-4	3-8	3-11	4-2	4-5	4-8	4-11	5-2	5-5
400.00	3-7	3-10	4-2	4-5	4-9	5-0	5-4	5-8	5-11	6-2
425.00	4-0	4-4	4-8	5-0	5-4	5-8	6-0	6-4	6-8	7-0
450.00	4-6	4-10	5-3	5-7	6-0	6-5	6-9	7-2	7-6	7-10
475.00	5-0	5-5	5-10	6-3	6-8	7-1	7-6	7-11	8-4	8-9
500.00	5-6	6-0	6-5	6-11	7-5	7-10	8-4	8-10	9-3	9-8
525.00	6-1	6-7	7-1	7-8	8-2	8-8	9-2	9-8	10-2	10-8
550.00	6-8	7-3	7-10	8-5	8-11	9-6	10-1	10-8	11-2	11-9
575.00	7-4	7-11	8-6	9-2	9-9	10-5	11-0	11-8	12-3	12-10
600.00	8-0	8-8	9-4	10-0	10-8	11-4	12-0	12-8	13-4	14-0
625.00	8-8	9-4	10-1	10-10	11-7	12-4	13-0	13-9	14-6	15-2

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A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D							
SHEET 9 OF 33		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH806.9
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING #2 - 6/1 ACSR/AW TENSION 850 LBS											

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.297	7.38	807	7.01	850*
20	0	0	0	0.087	3.31	526	2.72	640
30	0	0	0	0.087	3.65	477	2.94	593
40	0	0	0	0.087	4.01	434	3.18	547
50	0	0	0	0.087	4.4	396	3.46	503
60	0	0	0	0.087	4.8	363	3.77	462
70	0	0	0	0.087	5.2	335	4.11	424
80	0	0	0	0.087	5.61	310	4.47	390
90	0	0	0	0.087	6.02	289	4.85	359
100	0	0	0	0.087	6.42	271	5.24	332
110	0	0	0	0.087	6.81	256	5.64	309
120	0	0	0	0.087	7.19	242	6.03	289
130	0	0	0	0.087	7.56	230	6.43	271
167	0	0	0	0.087	8.39	208	7.82	223
212	0	0	0	0.087	9.24	189	9.17	190

* Design Condition

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B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D							
SHEET 11 OF 33		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH806.11
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING											
		#2 - 6/1 ACSR/AW TENSION 850 LBS											

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
100.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3
125.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4
150.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-6	0-6
175.00	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9
200.00	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-3	0-3	0-3
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-6
125.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-9	0-9
150.00	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-10	1-0	1-1
175.00	0-5	0-6	0-6	0-7	0-8	0-9	0-11	1-2	1-5	1-6
200.00	0-7	0-7	0-8	0-9	0-10	1-0	1-3	1-6	1-10	2-0

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A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					

SHEET 13 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH806.13
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING #2 - 6/1 ACSR/AW TENSION 850 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5
150.00	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7
175.00	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10
200.00	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-1
225.00	0-7	0-8	0-8	0-9	0-9	0-10	0-11	1-1	1-2	1-4
250.00	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-8

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-6
125.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9
150.00	0-4	0-4	0-5	0-6	0-6	0-7	0-9	0-10	1-0	1-1
175.00	0-5	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-4	1-6
200.00	0-7	0-8	0-9	0-10	0-11	1-1	1-3	1-6	1-9	1-11
225.00	0-9	0-10	0-11	1-0	1-2	1-5	1-7	1-10	2-2	2-5
250.00	0-11	1-0	1-2	1-3	1-6	1-8	2-0	2-4	2-8	3-0

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					

SHEET 14 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH806.14
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING #2 - 6/1 ACSR/AW TENSION 850 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-8
175.00	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11
200.00	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-3
225.00	0-8	0-9	0-10	0-10	0-11	1-0	1-2	1-3	1-5	1-7
250.00	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-9	1-11
275.00	1-0	1-1	1-2	1-4	1-5	1-7	1-9	1-11	2-1	2-4
300.00	1-3	1-4	1-5	1-6	1-8	1-10	2-0	2-3	2-6	2-10
325.00	1-5	1-7	1-8	1-10	2-0	2-2	2-5	2-8	2-11	3-4
350.00	1-8	1-10	1-11	2-1	2-3	2-6	2-9	3-1	3-5	3-10
375.00	1-11	2-1	2-3	2-5	2-7	2-11	3-2	3-6	3-11	4-5

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0
175.00	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-4
200.00	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-6	1-7	1-9
225.00	0-10	0-11	1-1	1-2	1-4	1-6	1-8	1-10	2-1	2-3
250.00	1-1	1-2	1-4	1-6	1-8	1-10	2-1	2-4	2-6	2-9
275.00	1-3	1-5	1-7	1-9	2-0	2-3	2-6	2-9	3-1	3-4
300.00	1-6	1-8	1-11	2-1	2-5	2-8	3-0	3-4	3-8	4-0
325.00	1-9	2-0	2-3	2-6	2-9	3-2	3-6	3-11	4-3	4-8
350.00	2-1	2-3	2-7	2-11	3-3	3-8	4-1	4-6	5-0	5-5
375.00	2-4	2-8	2-11	3-4	3-9	4-2	4-8	5-2	5-9	6-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					
SHEET 15 OF 33		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH806.15
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING #2 - 6/1 ACSR/AW TENSION 850 LBS									

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-7	1-9	1-10	2-0	2-1	2-2	2-4	2-5	2-6	2-8
275.00	1-11	2-1	2-3	2-5	2-6	2-8	2-10	2-11	3-1	3-2
300.00	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-10
325.00	2-9	2-11	3-1	3-4	3-6	3-9	3-11	4-1	4-3	4-5
350.00	3-2	3-5	3-7	3-10	4-1	4-4	4-6	4-9	4-11	5-2
375.00	3-7	3-11	4-2	4-5	4-8	4-11	5-2	5-5	5-8	5-11
400.00	4-1	4-5	4-9	5-0	5-4	5-7	5-11	6-2	6-6	6-9
425.00	4-8	5-0	5-4	5-8	6-0	6-4	6-8	7-0	7-4	7-7
450.00	5-3	5-7	6-0	6-4	6-9	7-1	7-6	7-10	8-2	8-6
475.00	5-10	6-3	6-8	7-1	7-6	7-11	8-4	8-9	9-2	9-6
500.00	6-5	6-11	7-5	7-10	8-4	8-9	9-3	9-8	10-1	10-6
525.00	7-1	7-7	8-2	8-8	9-2	9-8	10-2	10-8	11-2	11-7
550.00	7-10	8-4	8-11	9-6	10-1	10-8	11-2	11-9	12-3	12-9
575.00	8-6	9-2	9-9	10-5	11-0	11-8	12-3	12-10	13-5	13-11
600.00	9-3	9-11	10-8	11-4	12-0	12-8	13-4	13-11	14-7	15-2
625.00	10-1	10-10	11-7	12-3	13-0	13-9	14-5	15-2	15-10	16-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D							
SHEET 17 OF 33		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH806.17
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING #2 - 6/1 ACSR/AW TENSION 850 LBS											

* Design Condition

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>18 OF 33</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH806.18</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING</p> <p>#2 - 6/1 ACSR/AW TENSION 850 LBS</p> </div>					

Span = 400 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.495	11.68	850	11.68	850*
20	0	0	0	0.087	7.95	219	7.32	238
30	0	0	0	0.087	8.3	210	7.69	227
40	0	0	0	0.087	8.64	202	8.05	217
50	0	0	0	0.087	8.97	194	8.39	208
60	0	0	0	0.087	9.3	188	8.73	200
70	0	0	0	0.087	9.61	181	9.07	192
80	0	0	0	0.087	9.92	176	9.39	186
90	0	0	0	0.087	10.22	171	9.7	180
100	0	0	0	0.087	10.52	166	10.01	174
110	0	0	0	0.087	10.8	162	10.32	169
120	0	0	0	0.087	11.09	157	10.61	164
130	0	0	0	0.087	11.34	154	10.9	160
167	0	0	0	0.087	11.95	146	11.87	147
212	0	0	0	0.087	12.66	138	12.58	139
* Design Condition								

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					
<div>SHEET</div> <div>19 OF 33</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH806.19
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING #2 - 6/1 ACSR/AW TENSION 850 LBS									

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<div style="text-align: center;"> <p>SHEET</p> <p>20 OF 33</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH806.20</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>#2 - 6/1 ACSR/AW TENSION 850 LBS</p> </div>						

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
100.00	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-5
150.00	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-7
175.00	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-10
200.00	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-1

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-3	0-4
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-6
125.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-8	0-9	0-10
150.00	0-4	0-4	0-5	0-5	0-6	0-7	0-9	0-11	1-1	1-2
175.00	0-5	0-6	0-6	0-7	0-9	0-10	1-0	1-3	1-6	1-8
200.00	0-7	0-8	0-8	0-10	0-11	1-1	1-4	1-8	2-0	2-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					

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Completely Revised



New Page

Information Removed

SHEET
21 OF 33

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

OH806.21

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5
125.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8
150.00	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-10	1-0
175.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	1-0	1-2	1-4
200.00	0-7	0-8	0-9	0-9	0-10	1-0	1-1	1-3	1-6	1-8
225.00	0-9	0-10	0-11	1-0	1-1	1-3	1-5	1-7	1-10	2-2
250.00	0-11	1-0	1-1	1-3	1-4	1-6	1-9	2-0	2-4	2-8

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-7
125.00	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11
150.00	0-5	0-5	0-6	0-7	0-8	0-10	0-11	1-1	1-3	1-4
175.00	0-7	0-7	0-8	0-10	0-11	1-1	1-3	1-6	1-8	1-10
200.00	0-9	0-10	0-11	1-1	1-3	1-5	1-8	1-11	2-2	2-5
225.00	0-11	1-0	1-2	1-4	1-7	1-10	2-1	2-5	2-9	3-1
250.00	1-1	1-3	1-5	1-8	1-11	2-3	2-7	3-0	3-5	3-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					

SHEET 22 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH806.22
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING #2 - 6/1 ACSR/AW TENSION 850 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
175.00	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-7	1-8	1-9
200.00	1-1	1-2	1-4	1-6	1-7	1-9	1-11	2-0	2-2	2-4
225.00	1-4	1-6	1-8	1-10	2-0	2-3	2-5	2-7	2-9	2-11
250.00	1-8	1-10	2-1	2-3	2-6	2-9	3-0	3-2	3-5	3-7
275.00	2-0	2-3	2-6	2-9	3-0	3-4	3-7	3-10	4-1	4-5
300.00	2-5	2-8	3-0	3-3	3-7	3-11	4-3	4-7	4-11	5-2
325.00	2-10	3-2	3-6	3-10	4-3	4-7	5-0	5-5	5-9	6-1
350.00	3-3	3-8	4-1	4-6	4-11	5-4	5-10	6-3	6-8	7-1
375.00	3-9	4-2	4-8	5-2	5-8	6-2	6-8	7-2	7-8	8-2

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
175.00	1-0	1-1	1-2	1-4	1-5	1-6	1-8	1-9	1-10	1-11
200.00	1-3	1-5	1-7	1-8	1-10	2-0	2-2	2-3	2-5	2-6
225.00	1-7	1-9	1-11	2-2	2-4	2-6	2-8	2-10	3-0	3-2
250.00	2-0	2-2	2-5	2-8	2-11	3-1	3-4	3-7	3-9	3-11
275.00	2-4	2-8	2-11	3-3	3-6	3-9	4-0	4-4	4-7	4-9
300.00	2-10	3-2	3-6	3-10	4-2	4-6	4-10	5-1	5-5	5-8
325.00	3-4	3-8	4-1	4-6	4-10	5-3	5-8	6-0	6-4	6-8
350.00	3-10	4-3	4-9	5-2	5-8	6-1	6-6	6-11	7-4	7-9
375.00	4-5	4-11	5-5	6-0	6-6	7-0	7-6	8-0	8-5	8-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					

SHEET 23 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH806.23
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING #2 - 6/1 ACSR/AW TENSION 850 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7
225.00	2-4	2-5	2-7	2-8	2-9	2-10	3-0	3-1	3-2	3-3
250.00	2-10	3-0	3-2	3-3	3-5	3-6	3-8	3-9	3-11	4-0
275.00	3-6	3-8	3-10	4-0	4-2	4-3	4-5	4-7	4-9	4-10
300.00	4-1	4-4	4-6	4-9	4-11	5-1	5-3	5-5	5-8	5-10
325.00	4-10	5-1	5-4	5-6	5-9	6-0	6-2	6-5	6-7	6-10
350.00	5-7	5-11	6-2	6-5	6-8	6-11	7-2	7-5	7-8	7-11
375.00	6-5	6-9	7-1	7-5	7-8	8-0	8-3	8-6	8-10	9-1
400.00	7-4	7-8	8-1	8-5	8-9	9-1	9-5	9-8	10-0	10-4
425.00	8-3	8-8	9-1	9-6	9-10	10-3	10-7	10-11	11-4	11-8
450.00	9-3	9-9	10-2	10-7	11-1	11-6	11-11	12-3	12-8	13-1
475.00	10-4	10-10	11-4	11-10	12-4	12-9	13-3	13-8	14-2	14-7
500.00	11-5	12-0	12-7	13-1	13-8	14-2	14-8	15-2	15-8	16-2

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-8
225.00	2-6	2-7	2-9	2-10	2-11	3-0	3-2	3-3	3-4	3-5
250.00	3-1	3-3	3-4	3-6	3-8	3-9	3-10	4-0	4-1	4-3
275.00	3-9	3-11	4-1	4-3	4-5	4-6	4-8	4-10	5-0	5-1
300.00	4-6	4-8	4-10	5-1	5-3	5-5	5-7	5-9	5-11	6-1
325.00	5-3	5-6	5-8	5-11	6-2	6-4	6-7	6-9	6-11	7-2
350.00	6-1	6-4	6-7	6-10	7-1	7-4	7-7	7-10	8-1	8-3
375.00	7-0	7-3	7-7	7-11	8-2	8-5	8-9	9-0	9-3	9-6
400.00	7-11	8-4	8-8	9-0	9-4	9-7	9-11	10-3	10-6	10-10
425.00	9-0	9-4	9-9	10-2	10-6	10-10	11-2	11-6	11-10	12-2
450.00	10-1	10-6	10-11	11-4	11-9	12-2	12-7	12-11	13-4	13-8
475.00	11-2	11-8	12-2	12-8	13-1	13-7	14-0	14-5	14-10	15-3
500.00	12-5	13-0	13-6	14-0	14-6	15-0	15-6	16-0	16-5	16-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					
SHEET 24 OF 33		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH806.24
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING #2 - 6/1 ACSR/AW TENSION 850 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	0.834	4.92	850	4.92	850*
20	0	0	0	0.087	2.29	190	1.85	235
30	0	0	0	0.087	2.54	171	2.1	207
40	0	0	0	0.087	2.79	156	2.35	185
50	0	0	0	0.087	3.02	144	2.6	168
60	0	0	0	0.087	3.25	134	2.84	153
70	0	0	0	0.087	3.46	126	3.07	142
80	0	0	0	0.087	3.67	119	3.3	132
90	0	0	0	0.087	3.87	113	3.51	124
100	0	0	0	0.087	4.03	108	3.72	117
110	0	0	0	0.087	4.14	105	3.92	111
120	0	0	0	0.087	4.25	103	4.11	106
130	0	0	0	0.087	4.35	100	4.27	102
167	0	0	0	0.087	4.74	92	4.66	94
212	0	0	0	0.087	5.18	84	5.1	86
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D							
SHEET 26 OF 33		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH806.26
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING #2 - 6/1 ACSR/AW TENSION 850 LBS											

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	0.834	31.14	850	31.14	850*
20	0	0	0	0.087	28.93	95	28.59	96
30	0	0	0	0.087	29.11	95	28.77	96
40	0	0	0	0.087	29.28	94	28.95	95
50	0	0	0	0.087	29.46	94	29.13	95
60	0	0	0	0.087	29.63	93	29.31	94
70	0	0	0	0.087	29.8	93	29.49	93
80	0	0	0	0.087	29.97	92	29.66	93
90	0	0	0	0.087	30.1	92	29.84	92
100	0	0	0	0.087	30.21	91	30.01	92
110	0	0	0	0.087	30.32	91	30.19	91
120	0	0	0	0.087	30.43	91	30.34	91
130	0	0	0	0.087	30.54	90	30.45	91
167	0	0	0	0.087	30.95	89	30.85	89
212	0	0	0	0.087	31.43	88	31.34	88

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					

Completely Revised

	X
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Information Removed

OH806.28

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
#2 - 6/1 ACSR/AW TENSION 850 LBS

SHEET
28 OF 33

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5
125.00	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-8
150.00	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-11
175.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0	1-3
200.00	0-7	0-7	0-8	0-8	0-9	0-10	1-0	1-1	1-4	1-8

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-4	0-4	0-5
100.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-7	0-8	0-8
125.00	0-3	0-3	0-4	0-4	0-5	0-7	0-8	0-10	1-0	1-1
150.00	0-4	0-5	0-6	0-6	0-8	0-9	1-0	1-3	1-6	1-7
175.00	0-6	0-7	0-8	0-9	0-10	1-1	1-4	1-8	2-0	2-2
200.00	0-8	0-9	0-10	1-0	1-2	1-5	1-9	2-3	2-7	2-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D							
SHEET 29 OF 33		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH806.29
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING											
		#2 - 6/1 ACSR/AW TENSION 850 LBS											

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0
125.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6
150.00	1-0	1-2	1-4	1-6	1-7	1-9	1-10	2-0	2-1	2-2
175.00	1-5	1-7	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-0
200.00	1-10	2-1	2-4	2-7	2-10	3-1	3-4	3-6	3-9	3-11
225.00	2-4	2-8	3-0	3-3	3-7	3-11	4-2	4-5	4-9	5-0
250.00	2-11	3-3	3-8	4-1	4-5	4-10	5-2	5-6	5-10	6-2

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-0	1-0
125.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7
150.00	1-3	1-5	1-7	1-8	1-10	1-11	2-1	2-2	2-3	2-4
175.00	1-9	1-11	2-2	2-4	2-6	2-8	2-10	3-0	3-1	3-2
200.00	2-3	2-6	2-9	3-0	3-3	3-6	3-8	3-10	4-0	4-2
225.00	2-11	3-3	3-6	3-10	4-1	4-5	4-8	4-11	5-1	5-3
250.00	3-7	4-0	4-4	4-9	5-1	5-5	5-9	6-1	6-4	6-6

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					

SHEET 30 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH806.30
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING #2 - 6/1 ACSR/AW TENSION 850 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-1	2-2	2-2	2-3	2-4	2-4	2-5	2-5	2-6	2-6
175.00	2-10	2-11	3-0	3-1	3-1	3-2	3-3	3-4	3-5	3-5
200.00	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6
225.00	4-8	4-10	4-11	5-1	5-2	5-3	5-5	5-6	5-7	5-8
250.00	5-10	5-11	6-1	6-3	6-5	6-6	6-8	6-9	6-11	7-0
275.00	7-0	7-2	7-5	7-7	7-9	7-11	8-1	8-2	8-4	8-6
300.00	8-4	8-7	8-9	9-0	9-2	9-5	9-7	9-9	9-11	10-2
325.00	9-10	10-1	10-4	10-7	10-9	11-0	11-3	11-6	11-8	11-11
350.00	11-5	11-8	12-0	12-3	12-6	12-9	13-0	13-4	13-7	13-10
375.00	13-1	13-5	13-9	14-1	14-4	14-8	15-0	15-3	15-7	15-10

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-2	2-3	2-3	2-4	2-5	2-5	2-6	2-6	2-7	2-7
175.00	3-0	3-1	3-1	3-2	3-3	3-4	3-4	3-5	3-6	3-6
200.00	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-6	4-7
225.00	4-11	5-0	5-2	5-3	5-4	5-6	5-7	5-8	5-9	5-9
250.00	6-1	6-3	6-4	6-6	6-7	6-9	6-10	7-0	7-1	7-2
275.00	7-4	7-6	7-8	7-10	8-0	8-2	8-4	8-5	8-7	8-8
300.00	8-9	8-11	9-2	9-4	9-6	9-9	9-11	10-1	10-2	10-3
325.00	10-3	10-6	10-9	11-0	11-2	11-5	11-7	11-10	11-11	12-1
350.00	11-11	12-2	12-6	12-9	13-0	13-3	13-6	13-8	13-10	14-0
375.00	13-8	14-0	14-4	14-7	14-11	15-2	15-6	15-9	15-11	16-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					
SHEET 31 OF 33		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH806.31
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING									
		#2 - 6/1 ACSR/AW TENSION 850 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span: 400.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-4	4-4	4-5	4-5	4-6	4-6	4-7	4-7	4-8	4-8
225.00	5-5	5-6	5-7	5-7	5-8	5-9	5-9	5-10	5-11	5-11
250.00	6-9	6-9	6-10	6-11	7-0	7-1	7-2	7-3	7-3	7-4
275.00	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9	8-10	8-11
300.00	9-8	9-9	9-11	10-0	10-1	10-2	10-4	10-5	10-6	10-7
325.00	11-4	11-6	11-7	11-9	11-10	12-0	12-1	12-2	12-4	12-5
350.00	13-2	13-4	13-6	13-7	13-9	13-11	14-0	14-2	14-4	14-5
375.00	15-1	15-3	15-5	15-7	15-9	15-11	16-1	16-3	16-5	16-7
400.00	17-3	17-5	17-7	17-9	18-0	18-2	18-4	18-6	18-8	18-10
425.00	19-5	19-8	19-10	20-1	20-3	20-6	20-8	20-11	21-1	21-4
450.00	21-10	22-0	22-3	22-6	22-9	23-0	23-3	23-5	23-8	23-11
475.00	24-4	24-7	24-10	25-1	25-4	25-7	25-10	26-2	26-5	26-8
500.00	26-11	27-3	27-6	27-10	28-1	28-5	28-8	29-0	29-3	29-6

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-5	4-5	4-6	4-6	4-7	4-7	4-8	4-8	4-9	4-9
225.00	5-7	5-7	5-8	5-9	5-9	5-10	5-11	5-11	6-0	6-0
250.00	6-10	6-11	7-0	7-1	7-2	7-2	7-3	7-4	7-4	7-5
275.00	8-4	8-5	8-6	8-7	8-8	8-9	8-10	8-10	8-11	9-0
300.00	9-10	10-0	10-1	10-2	10-3	10-4	10-6	10-7	10-7	10-8
325.00	11-7	11-8	11-10	11-11	12-1	12-2	12-4	12-5	12-6	12-6
350.00	13-5	13-7	13-9	13-10	14-0	14-2	14-3	14-4	14-5	14-6
375.00	15-5	15-7	15-9	15-11	16-1	16-3	16-5	16-6	16-7	16-8
400.00	17-7	17-9	17-11	18-1	18-3	18-6	18-8	18-9	18-11	19-0
425.00	19-10	20-1	20-3	20-5	20-8	20-10	21-1	21-2	21-4	21-6
450.00	22-3	22-6	22-9	22-11	23-2	23-5	23-7	23-9	23-11	24-1
475.00	24-10	25-1	25-4	25-7	25-10	26-1	26-4	26-6	26-8	26-10
500.00	27-6	27-9	28-1	28-4	28-7	28-11	29-2	29-5	29-7	29-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D						
SHEET 32 OF 33		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH806.32
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING #2 - 6/1 ACSR/AW TENSION 850 LBS										

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

1240 LB TENSION ----- 807.2

1240 LB TENSION ----- 807.10

1240 LB TENSION ----- 807.18

1240 LB TENSION ----- 807.26

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D						
SHEET 1 OF 33		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH807.1
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		1/0 - 6/1 ACSR/AW TABLE OF CONTENTS										

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.299	1.35	1110	1.21	1240*
25	0	0	0	0.138	0.68	1011	0.58	1182
30	0	0	0	0.138	0.72	955	0.6	1143
40	0	0	0	0.138	0.81	847	0.65	1064
50	0	0	0	0.138	0.93	743	0.7	984
60	0	0	0	0.138	1.07	645	0.76	903
70	0	0	0	0.138	1.24	555	0.84	822
80	0	0	0	0.138	1.45	477	0.93	742
90	0	0	0	0.138	1.68	411	1.04	663
100	0	0	0	0.138	1.93	358	1.17	588
110	0	0	0	0.138	2.17	318	1.34	517
120	0	0	0	0.138	2.28	303	1.52	453
130	0	0	0	0.138	2.39	289	1.74	398
167	0	0	0	0.138	2.83	244	2.61	265
212	0	0	0	0.138	3.37	205	3.23	214
* Design Condition								

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[illegible]

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D						
SHEET 3 OF 33		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH807.3
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING 1/0 - 6/1 ACSR/AW TENSION 1240 LBS										

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.299	7.93	1180	7.54	1240*
25	0	0	0	0.138	5.45	791	4.61	936
30	0	0	0	0.138	5.67	761	4.76	906
40	0	0	0	0.138	6.13	704	5.09	848
50	0	0	0	0.138	6.59	655	5.44	793
60	0	0	0	0.138	7.06	611	5.81	743
70	0	0	0	0.138	7.53	573	6.2	696
80	0	0	0	0.138	8	539	6.61	653
90	0	0	0	0.138	8.47	510	7.03	614
100	0	0	0	0.138	8.92	484	7.45	579
110	0	0	0	0.138	9.37	461	7.88	548
120	0	0	0	0.138	9.81	440	8.31	519
130	0	0	0	0.138	10.23	422	8.74	494
167	0	0	0	0.138	11.4	379	10.28	420
212	0	0	0	0.138	12.38	349	12.02	359

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					

SHEET 4 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH807.4
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING 1/0 - 6/1 ACSR/AW TENSION 1240 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-4
125.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6
150.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-8	0-9
175.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-11	1-1
200.00	0-7	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-4

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-3	0-4	0-4
100.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8
125.00	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-9	0-11	1-0
150.00	0-4	0-5	0-5	0-6	0-7	0-9	0-11	1-1	1-4	1-5
175.00	0-6	0-6	0-7	0-8	0-10	1-0	1-2	1-6	1-10	2-0
200.00	0-7	0-8	0-9	0-11	1-1	1-3	1-7	2-0	2-5	2-7

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A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D						
SHEET 5 OF 33		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH807.5
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING 1/0 - 6/1 ACSR/AW TENSION 1240 LBS										

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4
125.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-6
150.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9
175.00	0-5	0-6	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0
200.00	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2	1-4
225.00	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-6	1-8
250.00	0-11	0-11	1-0	1-1	1-2	1-4	1-5	1-8	1-10	2-1

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-7
125.00	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10
150.00	0-4	0-5	0-5	0-6	0-7	0-8	0-10	0-11	1-1	1-3
175.00	0-6	0-7	0-7	0-9	0-10	0-11	1-1	1-3	1-6	1-8
200.00	0-8	0-9	0-10	0-11	1-1	1-3	1-5	1-8	1-11	2-2
225.00	0-10	0-11	1-0	1-2	1-4	1-7	1-10	2-2	2-5	2-9
250.00	1-0	1-2	1-3	1-5	1-8	1-11	2-3	2-7	3-0	3-5

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SHEET 6 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH807.6
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING 1/0 - 6/1 ACSR/AW TENSION 1240 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-7	0-8	0-9
175.00	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0
200.00	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-4
225.00	0-9	0-10	0-10	0-11	1-0	1-1	1-3	1-4	1-6	1-8
250.00	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-10	2-0
275.00	1-2	1-3	1-4	1-5	1-6	1-8	1-10	2-0	2-3	2-6
300.00	1-4	1-5	1-7	1-8	1-10	2-0	2-2	2-5	2-8	2-11
325.00	1-7	1-8	1-10	2-0	2-2	2-4	2-7	2-10	3-1	3-5
350.00	1-10	2-0	2-1	2-3	2-6	2-9	3-0	3-3	3-7	4-0
375.00	2-1	2-3	2-5	2-7	2-10	3-1	3-5	3-9	4-2	4-7

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0
175.00	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-2	1-3	1-5
200.00	0-8	0-9	0-10	1-0	1-1	1-3	1-4	1-6	1-8	1-10
225.00	0-11	1-0	1-1	1-3	1-5	1-7	1-9	1-11	2-1	2-3
250.00	1-1	1-3	1-4	1-6	1-8	1-11	2-2	2-4	2-7	2-10
275.00	1-4	1-6	1-8	1-10	2-1	2-4	2-7	2-10	3-2	3-5
300.00	1-7	1-9	1-11	2-2	2-5	2-9	3-1	3-5	3-9	4-1
325.00	1-10	2-1	2-3	2-7	2-11	3-3	3-7	4-0	4-5	4-9
350.00	2-2	2-4	2-8	3-0	3-4	3-9	4-2	4-8	5-1	5-6
375.00	2-5	2-9	3-0	3-5	3-10	4-4	4-10	5-4	5-10	6-4

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A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					

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SHEET
7 OF 33

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

OH807.7

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-9	1-10	2-0
275.00	1-4	1-5	1-6	1-8	1-9	1-11	2-0	2-2	2-3	2-5
300.00	1-7	1-9	1-10	1-11	2-1	2-3	2-5	2-6	2-8	2-10
325.00	1-11	2-0	2-2	2-4	2-5	2-7	2-10	3-0	3-2	3-4
350.00	2-2	2-4	2-6	2-8	2-10	3-0	3-3	3-5	3-8	3-10
375.00	2-6	2-8	2-10	3-1	3-3	3-6	3-9	3-11	4-2	4-5
400.00	2-10	3-1	3-3	3-6	3-9	4-0	4-3	4-6	4-9	5-1
425.00	3-3	3-5	3-8	3-11	4-2	4-6	4-9	5-1	5-5	5-8
450.00	3-7	3-10	4-1	4-5	4-8	5-0	5-4	5-8	6-0	6-5
475.00	4-0	4-4	4-7	4-11	5-3	5-7	6-0	6-4	6-9	7-1
500.00	4-6	4-9	5-1	5-5	5-10	6-2	6-7	7-0	7-5	7-11
525.00	4-11	5-3	5-7	6-0	6-5	6-10	7-3	7-9	8-3	8-8
550.00	5-5	5-9	6-2	6-7	7-0	7-6	8-0	8-6	9-0	9-6
575.00	5-11	6-4	6-9	7-2	7-8	8-2	8-9	9-4	9-10	10-5
600.00	6-5	6-10	7-4	7-10	8-4	8-11	9-6	10-1	10-9	11-4
625.00	7-0	7-5	7-11	8-6	9-1	9-8	10-4	11-0	11-8	12-4

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SHEET 9 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH807.9
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING 1/0 - 6/1 ACSR/AW TENSION 1240 LBS					

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.384	6.57	1170	6.2	1240*
20	0	0	0	0.138	3.05	907	2.59	1064
30	0	0	0	0.138	3.35	824	2.78	994
40	0	0	0	0.138	3.69	748	2.98	926
50	0	0	0	0.138	4.05	681	3.21	859
60	0	0	0	0.138	4.44	622	3.47	796
70	0	0	0	0.138	4.84	571	3.75	736
80	0	0	0	0.138	5.24	527	4.06	680
90	0	0	0	0.138	5.65	489	4.39	629
100	0	0	0	0.138	6.05	457	4.74	582
110	0	0	0	0.138	6.45	429	5.1	541
120	0	0	0	0.138	6.84	404	5.47	505
130	0	0	0	0.138	7.22	383	5.85	472
167	0	0	0	0.138	8.03	344	7.21	383
212	0	0	0	0.138	8.89	311	8.71	317
* Design Condition								

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>11 OF 33</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH807.11
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING 1/0 - 6/1 ACSR/AW TENSION 1240 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.384	10.02	1199	9.69	1240*
20	0	0	0	0.138	5.69	758	4.88	885
30	0	0	0	0.138	6.14	703	5.21	828
40	0	0	0	0.138	6.61	653	5.56	775
50	0	0	0	0.138	7.08	610	5.94	726
60	0	0	0	0.138	7.55	572	6.34	681
70	0	0	0	0.138	8.02	538	6.75	639
80	0	0	0	0.138	8.48	509	7.17	602
90	0	0	0	0.138	8.94	483	7.6	568
100	0	0	0	0.138	9.38	460	8.02	538
110	0	0	0	0.138	9.82	440	8.45	511
120	0	0	0	0.138	10.25	421	8.88	486
130	0	0	0	0.138	10.67	405	9.3	464
167	0	0	0	0.138	11.8	366	10.8	400
212	0	0	0	0.138	12.77	339	12.5	346
* Design Condition								

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					

Indicates Latest Revision	Completely Revised	X	New Page	Information Removed
SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING				
1/0 - 6/1 ACSR/AW TENSION 1240 LBS				

OH807.12

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
100.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-5
150.00	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-7
175.00	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9
200.00	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	1-0

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-3	0-3	0-3
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-6	0-6
125.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-9	0-10
150.00	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-10	1-1	1-2
175.00	0-5	0-6	0-6	0-7	0-8	0-9	0-11	1-2	1-5	1-7
200.00	0-7	0-7	0-8	0-9	0-10	1-0	1-3	1-6	1-10	2-1

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					
SHEET 13 OF 33		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH807.13
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING 1/0 - 6/1 ACSR/AW TENSION 1240 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
125.00	0-2	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5
150.00	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7
175.00	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10
200.00	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-1
225.00	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-4
250.00	0-9	0-10	0-11	0-11	1-0	1-1	1-3	1-4	1-6	1-8

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-6
125.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9
150.00	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-10	0-11	1-1
175.00	0-5	0-6	0-7	0-7	0-8	0-10	0-11	1-1	1-3	1-6
200.00	0-7	0-8	0-9	0-10	0-11	1-1	1-3	1-5	1-8	1-11
225.00	0-9	0-10	0-11	1-0	1-2	1-4	1-7	1-10	2-1	2-5
250.00	0-11	1-0	1-1	1-3	1-5	1-8	1-11	2-3	2-7	3-0

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SHEET
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

OH807.14

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-7	0-8
175.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11
200.00	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2
225.00	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-3	1-4	1-6
250.00	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-8	1-10
275.00	1-1	1-2	1-2	1-4	1-5	1-6	1-8	1-10	2-0	2-3
300.00	1-3	1-4	1-5	1-6	1-8	1-10	2-0	2-2	2-5	2-8
325.00	1-6	1-7	1-8	1-10	1-11	2-1	2-4	2-7	2-10	3-1
350.00	1-9	1-10	1-11	2-1	2-3	2-6	2-8	2-11	3-3	3-7
375.00	2-0	2-1	2-3	2-5	2-7	2-10	3-1	3-5	3-9	4-1

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0
175.00	0-6	0-7	0-7	0-8	0-9	0-10	1-0	1-1	1-2	1-4
200.00	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-5	1-7	1-8
225.00	0-10	0-11	1-0	1-2	1-3	1-5	1-7	1-9	2-0	2-2
250.00	1-0	1-1	1-3	1-5	1-7	1-9	2-0	2-2	2-5	2-8
275.00	1-3	1-4	1-6	1-8	1-11	2-2	2-5	2-8	2-11	3-3
300.00	1-6	1-7	1-10	2-0	2-3	2-7	2-10	3-2	3-6	3-10
325.00	1-9	1-11	2-1	2-4	2-8	3-0	3-4	3-9	4-1	4-6
350.00	2-0	2-2	2-5	2-9	3-1	3-6	3-11	4-4	4-9	5-3
375.00	2-3	2-6	2-10	3-2	3-6	4-0	4-5	4-11	5-6	6-0

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A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					
SHEET 15 OF 33		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH807.15
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING 1/0 - 6/1 ACSR/AW TENSION 1240 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	0.629	2.71	1163	2.54	1240*
20	0	0	0	0.138	0.68	1017	0.59	1161
30	0	0	0	0.138	0.76	906	0.64	1083
40	0	0	0	0.138	0.86	800	0.69	1003
50	0	0	0	0.138	0.99	698	0.75	923
60	0	0	0	0.138	1.14	603	0.82	842
70	0	0	0	0.138	1.33	519	0.91	762
80	0	0	0	0.138	1.55	446	1.01	683
90	0	0	0	0.138	1.79	386	1.14	607
100	0	0	0	0.138	2.04	338	1.29	534
110	0	0	0	0.138	2.28	303	1.47	469
120	0	0	0	0.138	2.39	289	1.68	411
130	0	0	0	0.138	2.51	275	1.9	363
167	0	0	0	0.138	2.95	234	2.78	248
212	0	0	0	0.138	3.49	198	3.36	205
* Design Condition								

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A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					
SHEET 18 OF 33		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH807.18
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING 1/0 - 6/1 ACSR/AW TENSION 1240 LBS									

* Design Condition

* Design Condition

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>19 OF 33</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH807.19
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING 1/0 - 6/1 ACSR/AW TENSION 1240 LBS									

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					
<div>SHEET 20 OF 33</div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH807.20	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING 1/0 - 6/1 ACSR/AW TENSION 1240 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
100.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
125.00	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5
150.00	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7
175.00	0-5	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10
200.00	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-1

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-3	0-4
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7
125.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-8	0-10	0-10
150.00	0-4	0-4	0-5	0-5	0-6	0-7	0-9	0-11	1-2	1-3
175.00	0-5	0-6	0-6	0-7	0-8	0-10	1-0	1-3	1-7	1-8
200.00	0-7	0-8	0-8	0-10	0-11	1-1	1-4	1-7	2-0	2-2

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Information Removed

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING
1/0 - 6/1 ACSR/AW TENSION 1240 LBS

OH807.21

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4
125.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7
150.00	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10
175.00	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	1-0	1-2
200.00	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-6
225.00	0-9	0-10	0-10	0-11	1-0	1-2	1-3	1-5	1-8	1-10
250.00	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-9	2-0	2-4

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-5	0-6	0-7
125.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-10	0-11
150.00	0-5	0-5	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-3
175.00	0-6	0-7	0-8	0-9	0-11	1-0	1-2	1-4	1-7	1-9
200.00	0-8	0-9	0-10	1-0	1-2	1-4	1-7	1-9	2-1	2-3
225.00	0-10	1-0	1-1	1-3	1-5	1-8	2-0	2-3	2-7	2-11
250.00	1-1	1-2	1-4	1-7	1-9	2-1	2-5	2-10	3-2	3-7

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A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					

SHEET 22 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH807.22
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING 1/0 - 6/1 ACSR/AW TENSION 1240 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span: 300.0		Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-1
175.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-6
200.00	0-10	0-11	1-1	1-2	1-3	1-5	1-6	1-8	1-10	1-11
225.00	1-1	1-2	1-4	1-5	1-7	1-9	1-11	2-1	2-3	2-5
250.00	1-4	1-6	1-8	1-10	2-0	2-2	2-5	2-7	2-10	3-0
275.00	1-8	1-10	2-0	2-2	2-5	2-8	2-11	3-2	3-5	3-8
300.00	1-11	2-2	2-4	2-7	2-10	3-2	3-5	3-9	4-1	4-4
325.00	2-3	2-6	2-9	3-0	3-4	3-8	4-0	4-5	4-9	5-1
350.00	2-8	2-11	3-2	3-6	3-11	4-3	4-8	5-1	5-6	5-11
375.00	3-1	3-4	3-8	4-1	4-5	4-11	5-4	5-10	6-4	6-10

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-2	1-3
175.00	0-9	0-10	1-0	1-1	1-2	1-4	1-5	1-6	1-8	1-9
200.00	1-0	1-2	1-3	1-5	1-7	1-9	1-10	2-0	2-2	2-3
225.00	1-3	1-5	1-7	1-10	2-0	2-2	2-4	2-6	2-9	2-11
250.00	1-7	1-9	2-0	2-3	2-5	2-8	2-11	3-2	3-4	3-7
275.00	1-11	2-2	2-5	2-8	3-0	3-3	3-6	3-10	4-1	4-4
300.00	2-3	2-7	2-10	3-2	3-6	3-10	4-2	4-6	4-10	5-2
325.00	2-8	3-0	3-4	3-9	4-2	4-6	4-11	5-4	5-8	6-0
350.00	3-1	3-6	3-11	4-4	4-10	5-3	5-8	6-2	6-7	7-0
375.00	3-7	4-0	4-6	5-0	5-6	6-0	6-7	7-1	7-7	8-0

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A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					
SHEET 23 OF 33		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH807.23
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING 1/0 - 6/1 ACSR/AW TENSION 1240 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2
225.00	1-9	1-11	2-0	2-1	2-3	2-4	2-5	2-7	2-8	2-9
250.00	2-2	2-4	2-6	2-7	2-9	2-11	3-0	3-2	3-3	3-5
275.00	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-10	4-0	4-2
300.00	3-2	3-4	3-7	3-9	4-0	4-2	4-4	4-7	4-9	4-11
325.00	3-8	3-11	4-2	4-5	4-8	4-11	5-1	5-4	5-7	5-9
350.00	4-3	4-7	4-10	5-1	5-5	5-8	5-11	6-2	6-5	6-8
375.00	4-11	5-3	5-7	5-11	6-2	6-6	6-10	7-1	7-5	7-8
400.00	5-7	5-11	6-4	6-8	7-1	7-5	7-9	8-1	8-5	8-9
425.00	6-4	6-9	7-2	7-7	7-11	8-4	8-9	9-2	9-6	9-10
450.00	7-1	7-6	8-0	8-6	8-11	9-4	9-10	10-3	10-8	11-1
475.00	7-11	8-5	8-11	9-5	9-11	10-5	10-11	11-5	11-11	12-4
500.00	8-9	9-4	9-11	10-5	11-0	11-7	12-1	12-8	13-2	13-8

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-7	1-8	1-9	1-10	1-11	2-1	2-2	2-3	2-4	2-5
225.00	2-0	2-1	2-3	2-4	2-6	2-7	2-8	2-10	2-11	3-0
250.00	2-6	2-7	2-9	2-11	3-1	3-2	3-4	3-6	3-7	3-9
275.00	3-0	3-2	3-4	3-6	3-8	3-10	4-0	4-2	4-4	4-6
300.00	3-7	3-9	4-0	4-2	4-5	4-7	4-10	5-0	5-2	5-4
325.00	4-2	4-5	4-8	4-11	5-2	5-5	5-8	5-10	6-1	6-3
350.00	4-10	5-2	5-5	5-9	6-0	6-3	6-6	6-9	7-0	7-3
375.00	5-7	5-11	6-3	6-7	6-11	7-2	7-6	7-10	8-1	8-4
400.00	6-4	6-9	7-1	7-6	7-10	8-2	8-6	8-10	9-2	9-6
425.00	7-2	7-7	8-0	8-5	8-10	9-3	9-8	10-0	10-5	10-9
450.00	8-0	8-6	9-0	9-5	9-11	10-4	10-10	11-3	11-8	12-0
475.00	8-11	9-6	10-0	10-6	11-1	11-7	12-0	12-6	13-0	13-5
500.00	9-11	10-6	11-1	11-8	12-3	12-10	13-4	13-10	14-4	14-10

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A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					
SHEET 24 OF 33		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH807.24
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING 1/0 - 6/1 ACSR/AW TENSION 1240 LBS									

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-0	3-1	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10
275.00	3-8	3-9	3-11	4-0	4-1	4-3	4-4	4-5	4-6	4-7
300.00	4-4	4-6	4-8	4-9	4-11	5-0	5-2	5-3	5-4	5-6
325.00	5-1	5-3	5-5	5-7	5-9	5-11	6-0	6-2	6-4	6-5
350.00	5-11	6-1	6-4	6-6	6-8	6-10	7-0	7-2	7-4	7-6
375.00	6-10	7-0	7-3	7-5	7-8	7-10	8-0	8-2	8-5	8-7
400.00	7-9	8-0	8-3	8-6	8-8	8-11	9-2	9-4	9-7	9-9
425.00	8-9	9-0	9-4	9-7	9-10	10-1	10-4	10-7	10-9	11-0
450.00	9-10	10-2	10-5	10-9	11-0	11-3	11-7	11-10	12-1	12-4
475.00	10-11	11-3	11-7	11-11	12-3	12-7	12-10	13-2	13-6	13-9
500.00	12-2	12-6	12-10	13-3	13-7	13-11	14-3	14-7	14-11	15-3
525.00	13-4	13-9	14-2	14-7	15-0	15-4	15-9	16-1	16-5	16-10
550.00	14-8	15-2	15-7	16-0	16-5	16-10	17-3	17-8	18-1	18-5
575.00	16-1	16-7	17-0	17-6	18-0	18-5	18-11	19-4	19-9	20-2
600.00	17-6	18-0	18-7	19-1	19-7	20-1	20-7	21-0	21-6	22-0
625.00	19-0	19-7	20-1	20-8	21-3	21-9	22-4	22-10	23-4	23-10

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					

SHEET 25 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH807.25
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING 1/0 - 6/1 ACSR/AW TENSION 1240 LBS					

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D						
SHEET 27 OF 33		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH807.27
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING 1/0 - 6/1 ACSR/AW TENSION 1240 LBS										

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	1.054	26.87	1240	26.87	1240*
20	0	0	0	0.138	24.48	178	23.99	181
30	0	0	0	0.138	24.69	176	24.2	180
40	0	0	0	0.138	24.89	175	24.4	178
50	0	0	0	0.138	25.1	174	24.6	177
60	0	0	0	0.138	25.3	172	24.8	176
70	0	0	0	0.138	25.5	171	25	174
80	0	0	0	0.138	25.65	170	25.2	173
90	0	0	0	0.138	25.78	169	25.39	172
100	0	0	0	0.138	25.91	168	25.59	170
110	0	0	0	0.138	26.03	167	25.78	169
120	0	0	0	0.138	26.16	167	25.97	168
130	0	0	0	0.138	26.29	166	26.16	167
167	0	0	0	0.138	26.75	163	26.67	164
212	0	0	0	0.138	27.3	160	27.22	160
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					

SHEET 28 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH807.28
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING 1/0 - 6/1 ACSR/AW TENSION 1240 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-4
125.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7
150.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-10
175.00	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-10	0-11	1-1
200.00	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-1	1-2	1-5

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-3	0-4	0-4
100.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8
125.00	0-3	0-3	0-4	0-4	0-5	0-6	0-8	0-10	0-11	1-0
150.00	0-4	0-5	0-5	0-6	0-7	0-9	0-11	1-2	1-4	1-6
175.00	0-6	0-6	0-7	0-8	0-10	1-0	1-3	1-7	1-10	2-0
200.00	0-8	0-8	0-10	0-11	1-1	1-4	1-7	2-0	2-5	2-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					
SHEET 29 OF 33		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH807.29
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING 1/0 - 6/1 ACSR/AW TENSION 1240 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-9
125.00	0-6	0-6	0-7	0-8	0-9	0-10	1-0	1-1	1-2	1-3
150.00	0-8	0-9	0-10	1-0	1-1	1-3	1-5	1-6	1-8	1-9
175.00	0-11	1-1	1-2	1-4	1-6	1-8	1-11	2-1	2-3	2-5
200.00	1-2	1-4	1-7	1-9	2-0	2-3	2-6	2-8	2-11	3-2
225.00	1-6	1-9	2-0	2-3	2-6	2-10	3-1	3-5	3-8	4-0
250.00	1-11	2-2	2-5	2-9	3-1	3-6	3-10	4-3	4-7	4-11

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-5	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11
125.00	0-7	0-8	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-4
150.00	0-10	1-0	1-2	1-4	1-5	1-7	1-8	1-10	1-11	2-0
175.00	1-2	1-4	1-7	1-9	1-11	2-2	2-4	2-6	2-7	2-8
200.00	1-7	1-9	2-1	2-4	2-7	2-10	3-0	3-3	3-5	3-6
225.00	2-0	2-3	2-7	2-11	3-3	3-6	3-10	4-1	4-3	4-5
250.00	2-5	2-10	3-2	3-7	4-0	4-4	4-9	5-1	5-4	5-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					

SHEET 30 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH807.30
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING 1/0 - 6/1 ACSR/AW TENSION 1240 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-7	1-8	1-9	1-10	1-10	1-11	2-0	2-0	2-1	2-1
175.00	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
200.00	2-11	3-0	3-1	3-2	3-4	3-5	3-6	3-7	3-8	3-9
225.00	3-8	3-9	3-11	4-1	4-2	4-4	4-5	4-7	4-8	4-9
250.00	4-6	4-8	4-10	5-0	5-2	5-4	5-6	5-7	5-9	5-11
275.00	5-5	5-8	5-10	6-1	6-3	6-5	6-7	6-10	7-0	7-2
300.00	6-6	6-9	7-0	7-2	7-5	7-8	7-10	8-1	8-4	8-6
325.00	7-7	7-11	8-2	8-5	8-9	9-0	9-3	9-6	9-9	10-0
350.00	8-10	9-2	9-6	9-10	10-1	10-5	10-9	11-0	11-4	11-7
375.00	10-2	10-6	10-11	11-3	11-7	12-0	12-4	12-8	13-0	13-3

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-9	1-10	1-11	1-11	2-0	2-1	2-1	2-2	2-2	2-2
175.00	2-5	2-6	2-7	2-8	2-9	2-9	2-10	2-11	2-11	3-0
200.00	3-2	3-3	3-4	3-5	3-7	3-8	3-9	3-9	3-10	3-11
225.00	4-0	4-1	4-3	4-4	4-6	4-7	4-9	4-10	4-10	4-11
250.00	4-11	5-1	5-3	5-5	5-6	5-8	5-10	5-11	6-0	6-1
275.00	5-11	6-2	6-4	6-6	6-8	6-11	7-1	7-2	7-3	7-5
300.00	7-1	7-4	7-6	7-9	8-0	8-2	8-5	8-6	8-8	8-9
325.00	8-3	8-7	8-10	9-1	9-4	9-7	9-10	10-0	10-2	10-4
350.00	9-7	9-11	10-3	10-7	10-10	11-2	11-5	11-7	11-10	12-0
375.00	11-0	11-5	11-9	12-1	12-6	12-10	13-2	13-4	13-7	13-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D						
SHEET 31 OF 33		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH807.31
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING 1/0 - 6/1 ACSR/AW TENSION 1240 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-6	3-7	3-8	3-8	3-9	3-10	3-10	3-11	3-11	4-0
225.00	4-6	4-7	4-7	4-8	4-9	4-10	4-11	4-11	5-0	5-1
250.00	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3
275.00	6-8	6-10	6-11	7-0	7-1	7-2	7-3	7-5	7-6	7-7
300.00	8-0	8-1	8-3	8-4	8-5	8-7	8-8	8-9	8-11	9-0
325.00	9-4	9-6	9-8	9-9	9-11	10-1	10-2	10-4	10-5	10-7
350.00	10-10	11-0	11-2	11-4	11-6	11-8	11-10	12-0	12-1	12-3
375.00	12-5	12-8	12-10	13-0	13-2	13-5	13-7	13-9	13-11	14-1
400.00	14-2	14-5	14-7	14-10	15-0	15-3	15-5	15-8	15-10	16-0
425.00	16-0	16-3	16-6	16-9	17-0	17-2	17-5	17-8	17-11	18-1
450.00	17-11	18-3	18-6	18-9	19-0	19-3	19-7	19-10	20-1	20-4
475.00	20-0	20-4	20-7	20-11	21-2	21-6	21-9	22-1	22-4	22-8
500.00	22-2	22-6	22-10	23-2	23-6	23-10	24-2	24-5	24-9	25-1

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-8	3-9	3-9	3-10	3-11	3-11	4-0	4-0	4-0	4-1
225.00	4-8	4-9	4-9	4-10	4-11	5-0	5-0	5-1	5-1	5-2
250.00	5-9	5-10	5-11	6-0	6-1	6-2	6-2	6-3	6-4	6-4
275.00	6-11	7-0	7-2	7-3	7-4	7-5	7-6	7-7	7-8	7-8
300.00	8-3	8-5	8-6	8-7	8-9	8-10	8-11	9-0	9-1	9-2
325.00	9-8	9-10	10-0	10-1	10-3	10-5	10-6	10-7	10-8	10-9
350.00	11-3	11-5	11-7	11-9	11-11	12-1	12-2	12-3	12-4	12-6
375.00	12-11	13-1	13-3	13-6	13-8	13-10	14-0	14-1	14-2	14-4
400.00	14-8	14-11	15-1	15-4	15-6	15-9	15-11	16-0	16-2	16-4
425.00	16-7	16-10	17-1	17-4	17-7	17-9	18-0	18-1	18-3	18-5
450.00	18-7	18-11	19-2	19-5	19-8	19-11	20-2	20-4	20-6	20-8
475.00	20-9	21-0	21-4	21-8	21-11	22-3	22-5	22-8	22-10	23-0
500.00	23-0	23-4	23-8	24-0	24-4	24-7	24-11	25-1	25-4	25-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					
SHEET 32 OF 33		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH807.32
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING 1/0 - 6/1 ACSR/AW TENSION 1240 LBS									

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-1	6-2	6-2	6-3	6-4	6-4	6-5	6-5	6-6	6-6
275.00	7-5	7-5	7-6	7-7	7-8	7-8	7-9	7-9	7-10	7-10
300.00	8-10	8-10	8-11	9-0	9-1	9-2	9-3	9-3	9-4	9-4
325.00	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-10	10-11	11-0
350.00	12-0	12-1	12-2	12-3	12-4	12-6	12-7	12-7	12-8	12-9
375.00	13-9	13-10	14-0	14-1	14-3	14-4	14-5	14-6	14-7	14-7
400.00	15-8	15-9	15-11	16-1	16-2	16-4	16-5	16-6	16-7	16-8
425.00	17-8	17-10	18-0	18-1	18-3	18-5	18-6	18-7	18-8	18-9
450.00	19-10	20-0	20-2	20-4	20-6	20-8	20-9	20-10	21-0	21-1
475.00	22-1	22-3	22-6	22-8	22-10	23-0	23-2	23-3	23-4	23-6
500.00	24-6	24-8	24-11	25-1	25-4	25-6	25-8	25-9	25-11	26-0
525.00	27-0	27-3	27-5	27-8	27-11	28-1	28-3	28-5	28-7	28-9
550.00	29-8	29-11	30-2	30-5	30-8	30-10	31-1	31-3	31-4	31-6
575.00	32-5	32-8	32-11	33-3	33-6	33-9	34-0	34-2	34-4	34-6
600.00	35-4	35-7	35-11	36-2	36-6	36-9	37-0	37-2	37-4	37-7
625.00	38-4	38-8	39-0	39-3	39-7	39-11	40-2	40-4	40-7	40-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					
SHEET 33 OF 33		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH807.33
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING 1/0 - 6/1 ACSR/AW TENSION 1240 LBS									

SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 3/0 - 6/1 ACSR/AW CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

G.O. 95 LIGHT LOADING CONDITION

1850 LB TENSION ----- 808.2

65 MPH LIGHT KNOWN LOCAL WIND CONDITION

1850 LB TENSION ----- 808.10

85 MPH LIGHT KNOWN LOCAL WIND CONDITION

1850 LB TENSION ----- 808.18

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

1850 LB TENSION ----- 808.26

REFERENCE:

- a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D						
SHEET 1 OF 33		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH808.1
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		3/0 - 6/1 ACSR/AW TABLE OF CONTENTS										

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.4	4.72	1695	4.33	1850*
25	0	0	0	0.219	3.24	1353	2.72	1610
30	0	0	0	0.219	3.4	1289	2.82	1555
40	0	0	0	0.219	3.74	1171	3.03	1447
50	0	0	0	0.219	4.11	1067	3.26	1342
60	0	0	0	0.219	4.5	975	3.53	1243
70	0	0	0	0.219	4.9	895	3.82	1148
80	0	0	0	0.219	5.3	827	4.13	1061
90	0	0	0	0.219	5.71	768	4.46	982
100	0	0	0	0.219	6.11	718	4.82	910
110	0	0	0	0.219	6.51	674	5.18	846
120	0	0	0	0.219	6.89	636	5.55	790
130	0	0	0	0.219	7.27	603	5.92	740
167	0	0	0	0.219	8.09	542	7.28	602
212	0	0	0	0.219	8.94	491	8.77	500

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D							
SHEET 3 OF 33		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH808.3
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING 3/0 - 6/1 ACSR/AW TENSION 1850 LBS											

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					
SHEET 4 OF 33		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH808.4	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING 3/0 - 6/1 ACSR/AW TENSION 1850 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5
125.00	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-8
150.00	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-8	0-9	0-11
175.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-11	1-0	1-3
200.00	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-7

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-4	0-4	0-5
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-7	0-8	0-8
125.00	0-3	0-3	0-4	0-5	0-5	0-7	0-8	0-10	1-0	1-1
150.00	0-4	0-5	0-6	0-7	0-8	0-9	1-0	1-3	1-6	1-7
175.00	0-6	0-7	0-8	0-9	0-11	1-1	1-4	1-8	2-0	2-2
200.00	0-8	0-9	0-10	1-0	1-2	1-5	1-9	2-3	2-7	2-10

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A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					
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		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING 3/0 - 6/1 ACSR/AW TENSION 1850 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4
125.00	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7
150.00	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10
175.00	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	1-0	1-1
200.00	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-6
225.00	0-9	0-10	0-10	0-11	1-0	1-2	1-3	1-5	1-8	1-10
250.00	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-9	2-0	2-4

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-5	0-6	0-7
125.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-10	0-11
150.00	0-5	0-5	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-3
175.00	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-4	1-7	1-9
200.00	0-8	0-9	0-10	1-0	1-2	1-4	1-7	1-9	2-0	2-3
225.00	0-10	1-0	1-1	1-3	1-5	1-8	1-11	2-3	2-7	2-11
250.00	1-1	1-2	1-4	1-7	1-9	2-1	2-5	2-10	3-2	3-7

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A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					
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		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING 3/0 - 6/1 ACSR/AW TENSION 1850 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-8	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-4
225.00	0-10	0-11	0-11	1-0	1-1	1-2	1-4	1-5	1-6	1-8
250.00	1-0	1-1	1-2	1-3	1-5	1-6	1-7	1-9	1-11	2-0
275.00	1-3	1-4	1-5	1-7	1-8	1-10	1-11	2-1	2-3	2-5
300.00	1-6	1-7	1-8	1-10	2-0	2-2	2-4	2-6	2-9	2-11
325.00	1-9	1-10	2-0	2-2	2-4	2-6	2-9	2-11	3-2	3-5
350.00	2-0	2-2	2-4	2-6	2-8	2-11	3-2	3-5	3-8	4-0
375.00	2-4	2-6	2-8	2-10	3-1	3-4	3-8	3-11	4-3	4-7
400.00	2-8	2-10	3-0	3-3	3-6	3-10	4-2	4-6	4-10	5-2
425.00	3-0	3-2	3-5	3-8	4-0	4-4	4-8	5-0	5-5	5-10
450.00	3-4	3-7	3-10	4-2	4-6	4-10	5-3	5-8	6-1	6-7
475.00	3-9	4-0	4-3	4-7	5-0	5-5	5-10	6-4	6-10	7-4
500.00	4-1	4-5	4-9	5-1	5-6	6-0	6-5	7-0	7-6	8-1

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-6	1-8
225.00	1-0	1-1	1-2	1-4	1-5	1-7	1-8	1-10	1-11	2-1
250.00	1-2	1-4	1-6	1-7	1-9	1-11	2-1	2-3	2-5	2-6
275.00	1-6	1-7	1-9	1-11	2-1	2-4	2-6	2-8	2-11	3-1
300.00	1-9	1-11	2-1	2-4	2-6	2-9	3-0	3-3	3-5	3-8
325.00	2-0	2-3	2-6	2-9	3-0	3-3	3-6	3-9	4-0	4-4
350.00	2-4	2-7	2-10	3-2	3-5	3-9	4-1	4-4	4-8	5-0
375.00	2-9	3-0	3-3	3-7	3-11	4-4	4-8	5-0	5-4	5-9
400.00	3-1	3-5	3-9	4-1	4-6	4-11	5-4	5-8	6-1	6-6
425.00	3-6	3-10	4-3	4-8	5-1	5-6	6-0	6-5	6-11	7-4
450.00	3-11	4-4	4-9	5-2	5-8	6-2	6-9	7-3	7-9	8-3
475.00	4-4	4-10	5-3	5-10	6-4	6-11	7-6	8-1	8-7	9-2
500.00	4-10	5-4	5-10	6-5	7-0	7-8	8-3	8-11	9-7	10-2

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		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING 3/0 - 6/1 ACSR/AW TENSION 1850 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-1	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-10	1-11
275.00	1-4	1-5	1-6	1-7	1-9	1-10	2-0	2-1	2-3	2-4
300.00	1-7	1-8	1-10	1-11	2-1	2-2	2-4	2-6	2-8	2-10
325.00	1-10	2-0	2-1	2-3	2-5	2-7	2-9	2-11	3-1	3-3
350.00	2-2	2-4	2-5	2-7	2-10	3-0	3-2	3-5	3-7	3-10
375.00	2-6	2-8	2-10	3-0	3-3	3-5	3-8	3-11	4-2	4-5
400.00	2-10	3-0	3-2	3-5	3-8	3-11	4-2	4-5	4-8	5-0
425.00	3-2	3-5	3-7	3-10	4-2	4-5	4-8	5-0	5-4	5-7
450.00	3-7	3-10	4-1	4-4	4-8	4-11	5-3	5-7	5-11	6-4
475.00	4-0	4-3	4-6	4-10	5-2	5-6	5-11	6-3	6-8	7-0
500.00	4-5	4-8	5-0	5-4	5-9	6-1	6-6	6-11	7-4	7-9
525.00	4-10	5-2	5-6	5-11	6-4	6-9	7-2	7-8	8-1	8-7
550.00	5-4	5-8	6-1	6-6	6-11	7-5	7-11	8-5	8-11	9-5
575.00	5-10	6-2	6-8	7-1	7-7	8-1	8-7	9-2	9-9	10-4
600.00	6-4	6-9	7-3	7-9	8-3	8-10	9-5	10-0	10-7	11-3
625.00	6-10	7-4	7-10	8-4	8-11	9-7	10-2	10-10	11-6	12-2

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	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING 3/0 - 6/1 ACSR/AW TENSION 1850 LBS					

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.502	5.93	1694	5.43	1850*
20	0	0	0	0.219	2.94	1489	2.51	1748
30	0	0	0	0.219	3.24	1354	2.68	1636
40	0	0	0	0.219	3.56	1230	2.87	1526
50	0	0	0	0.219	3.92	1118	3.09	1418
60	0	0	0	0.219	4.3	1020	3.33	1315
70	0	0	0	0.219	4.69	934	3.6	1216
80	0	0	0	0.219	5.09	860	3.9	1124
90	0	0	0	0.219	5.5	797	4.22	1038
100	0	0	0	0.219	5.91	742	4.56	961
110	0	0	0	0.219	6.3	695	4.92	891
120	0	0	0	0.219	6.7	655	5.28	829
130	0	0	0	0.219	7.08	619	5.66	775
167	0	0	0	0.219	7.9	555	7.03	624
212	0	0	0	0.219	8.76	501	8.57	512
* Design Condition								

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		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING 3/0 - 6/1 ACSR/AW TENSION 1850 LBS											

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.502	9.02	1742	8.49	1850*
20	0	0	0	0.219	5.24	1306	4.47	1532
30	0	0	0	0.219	5.68	1206	4.77	1436
40	0	0	0	0.219	6.13	1117	5.09	1344
50	0	0	0	0.219	6.6	1038	5.44	1258
60	0	0	0	0.219	7.07	969	5.82	1177
70	0	0	0	0.219	7.54	909	6.21	1103
80	0	0	0	0.219	8.01	856	6.62	1035
90	0	0	0	0.219	8.47	809	7.04	973
100	0	0	0	0.219	8.93	768	7.46	918
110	0	0	0	0.219	9.37	731	7.89	868
120	0	0	0	0.219	9.81	699	8.32	823
130	0	0	0	0.219	10.24	669	8.75	783
167	0	0	0	0.219	11.4	601	10.29	666
212	0	0	0	0.219	12.38	554	12.03	570
* Design Condition								

* Design Condition

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Completely Revised

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New Page

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

OH808.12

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
100.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
125.00	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5
150.00	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7
175.00	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-8	0-9	0-10
200.00	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-1

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-3	0-4
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7
125.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-8	0-10	0-10
150.00	0-4	0-4	0-5	0-5	0-6	0-7	0-9	0-11	1-2	1-3
175.00	0-5	0-6	0-7	0-7	0-9	0-10	1-0	1-3	1-7	1-9
200.00	0-7	0-8	0-8	0-10	0-11	1-1	1-4	1-8	2-1	2-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					
SHEET 13 OF 33		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH808.13
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING 3/0 - 6/1 ACSR/AW TENSION 1850 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
125.00	0-2	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5
150.00	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8
175.00	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10
200.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2
225.00	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-2	1-3	1-5
250.00	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-5	0-6
125.00	0-3	0-3	0-3	0-4	0-5	0-5	0-6	0-7	0-8	0-9
150.00	0-4	0-4	0-5	0-6	0-6	0-7	0-9	0-10	1-0	1-1
175.00	0-6	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-4	1-6
200.00	0-7	0-8	0-9	0-10	1-0	1-1	1-4	1-6	1-9	2-0
225.00	0-9	0-10	0-11	1-1	1-3	1-5	1-8	1-11	2-2	2-6
250.00	0-11	1-0	1-2	1-4	1-6	1-9	2-0	2-4	2-9	3-1

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C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D							
SHEET 14 OF 33		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH808.14
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING											
		3/0 - 6/1 ACSR/AW TENSION 1850 LBS											

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-7	0-8
175.00	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11
200.00	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2
225.00	0-9	0-9	0-10	0-10	0-11	1-0	1-1	1-3	1-4	1-6
250.00	0-11	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-10
275.00	1-1	1-2	1-3	1-4	1-5	1-6	1-8	1-10	2-0	2-3
300.00	1-3	1-4	1-5	1-7	1-8	1-10	2-0	2-2	2-5	2-8
325.00	1-6	1-7	1-8	1-10	2-0	2-2	2-4	2-7	2-10	3-2
350.00	1-9	1-10	2-0	2-1	2-3	2-6	2-9	3-0	3-3	3-8
375.00	2-0	2-1	2-3	2-5	2-7	2-10	3-1	3-5	3-9	4-2

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0
175.00	0-6	0-7	0-7	0-8	0-9	0-10	1-0	1-1	1-2	1-4
200.00	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-5	1-7	1-9
225.00	0-10	0-11	1-0	1-2	1-3	1-5	1-7	1-10	2-0	2-2
250.00	1-0	1-2	1-3	1-5	1-7	1-9	2-0	2-3	2-5	2-8
275.00	1-3	1-4	1-6	1-8	1-11	2-2	2-5	2-8	3-0	3-3
300.00	1-6	1-8	1-10	2-0	2-3	2-7	2-10	3-2	3-6	3-10
325.00	1-9	1-11	2-2	2-5	2-8	3-0	3-4	3-9	4-2	4-6
350.00	2-0	2-3	2-6	2-9	3-1	3-6	3-11	4-4	4-10	5-3
375.00	2-4	2-7	2-10	3-2	3-7	4-0	4-6	5-0	5-6	6-0

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					

SHEET 15 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH808.15
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING 3/0 - 6/1 ACSR/AW TENSION 1850 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3
225.00	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-7
250.00	1-0	1-1	1-1	1-2	1-4	1-5	1-6	1-8	1-9	1-11
275.00	1-2	1-3	1-4	1-6	1-7	1-8	1-10	2-0	2-2	2-4
300.00	1-5	1-6	1-7	1-9	1-10	2-0	2-2	2-4	2-7	2-9
325.00	1-8	1-9	1-11	2-0	2-2	2-5	2-7	2-9	3-0	3-3
350.00	1-11	2-1	2-2	2-4	2-7	2-9	3-0	3-3	3-6	3-9
375.00	2-2	2-4	2-6	2-9	2-11	3-2	3-5	3-9	4-0	4-4
400.00	2-6	2-8	2-10	3-1	3-4	3-7	3-11	4-3	4-7	4-11
425.00	2-10	3-0	3-3	3-6	3-9	4-1	4-5	4-9	5-2	5-7
450.00	3-2	3-5	3-8	3-11	4-3	4-7	4-11	5-4	5-9	6-3
475.00	3-6	3-9	4-1	4-4	4-8	5-1	5-6	5-11	6-5	6-11
500.00	3-11	4-2	4-6	4-10	5-2	5-8	6-1	6-7	7-2	7-8

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7
225.00	0-11	1-0	1-2	1-3	1-4	1-6	1-7	1-9	1-10	2-0
250.00	1-2	1-3	1-5	1-6	1-8	1-10	2-0	2-2	2-4	2-6
275.00	1-5	1-6	1-8	1-10	2-0	2-3	2-5	2-7	2-9	3-0
300.00	1-8	1-10	2-0	2-2	2-5	2-8	2-10	3-1	3-4	3-7
325.00	1-11	2-2	2-4	2-7	2-10	3-1	3-4	3-8	3-11	4-2
350.00	2-3	2-6	2-9	3-0	3-3	3-7	3-11	4-3	4-6	4-10
375.00	2-7	2-10	3-2	3-5	3-9	4-1	4-6	4-10	5-2	5-6
400.00	2-11	3-3	3-7	3-11	4-4	4-8	5-1	5-6	5-11	6-4
425.00	3-4	3-8	4-0	4-5	4-10	5-4	5-9	6-3	6-8	7-1
450.00	3-9	4-1	4-6	5-0	5-5	5-11	6-5	7-0	7-6	8-0
475.00	4-2	4-7	5-0	5-6	6-1	6-7	7-2	7-9	8-4	8-11
500.00	4-7	5-1	5-7	6-1	6-9	7-4	8-0	8-7	9-3	9-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					
SHEET 16 OF 33		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH808.16
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING 3/0 - 6/1 ACSR/AW TENSION 1850 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D							
SHEET 18 OF 33		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH808.18
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING 3/0 - 6/1 ACSR/AW TENSION 1850 LBS											

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D							
SHEET 20 OF 33		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH808.20
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING 3/0 - 6/1 ACSR/AW TENSION 1850 LBS											

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-4
125.00	0-2	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5
150.00	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-8
175.00	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-11
200.00	0-6	0-7	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-4	0-4
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7
125.00	0-3	0-3	0-3	0-4	0-5	0-5	0-7	0-8	0-10	0-11
150.00	0-4	0-4	0-5	0-6	0-7	0-8	0-9	1-0	1-3	1-4
175.00	0-5	0-6	0-7	0-8	0-9	0-10	1-1	1-4	1-8	1-9
200.00	0-7	0-8	0-9	0-10	1-0	1-2	1-5	1-9	2-2	2-4

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A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					

SHEET 21 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH808.21
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING 3/0 - 6/1 ACSR/AW TENSION 1850 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4
125.00	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7
150.00	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-8	0-9	0-10
175.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	1-0	1-1
200.00	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-5
225.00	0-9	0-10	0-10	0-11	1-0	1-1	1-3	1-5	1-7	1-10
250.00	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-9	2-0	2-3

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-5	0-6	0-7
125.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-11
150.00	0-5	0-5	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-3
175.00	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-4	1-6	1-9
200.00	0-8	0-9	0-10	1-0	1-1	1-4	1-6	1-9	2-0	2-3
225.00	0-10	0-11	1-1	1-3	1-5	1-8	1-11	2-3	2-7	2-10
250.00	1-1	1-2	1-4	1-6	1-9	2-1	2-5	2-9	3-2	3-6

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Indicates Latest Revision

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New Page

Information Removed

SHEET
22 OF 33

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING
3/0 - 6/1 ACSR/AW TENSION 1850 LBS

OH808.22

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-1	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-10	1-11
225.00	1-5	1-6	1-7	1-9	1-10	1-11	2-1	2-2	2-3	2-5
250.00	1-8	1-10	2-0	2-1	2-3	2-5	2-7	2-8	2-10	3-0
275.00	2-1	2-3	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-7
300.00	2-5	2-8	2-10	3-1	3-3	3-6	3-8	3-10	4-1	4-3
325.00	2-11	3-1	3-4	3-7	3-10	4-1	4-4	4-7	4-9	5-0
350.00	3-4	3-7	3-10	4-2	4-5	4-9	5-0	5-3	5-7	5-10
375.00	3-10	4-2	4-5	4-9	5-1	5-5	5-9	6-1	6-4	6-8
400.00	4-4	4-8	5-1	5-5	5-9	6-2	6-6	6-11	7-3	7-7
425.00	4-11	5-4	5-8	6-1	6-6	6-11	7-4	7-9	8-2	8-7
450.00	5-6	5-11	6-5	6-10	7-4	7-9	8-3	8-9	9-2	9-7
475.00	6-2	6-7	7-2	7-8	8-2	8-8	9-2	9-9	10-3	10-9
500.00	6-10	7-4	7-11	8-6	9-0	9-7	10-2	10-9	11-4	11-10

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-3	1-4	1-5	1-7	1-8	1-9	1-10	1-11	2-0	2-1
225.00	1-7	1-8	1-10	2-0	2-1	2-3	2-4	2-5	2-7	2-8
250.00	1-11	2-1	2-3	2-5	2-7	2-9	2-10	3-0	3-2	3-4
275.00	2-4	2-7	2-9	2-11	3-1	3-4	3-6	3-8	3-10	4-0
300.00	2-10	3-0	3-3	3-6	3-9	3-11	4-2	4-4	4-7	4-9
325.00	3-4	3-7	3-10	4-1	4-4	4-7	4-10	5-1	5-4	5-7
350.00	3-10	4-2	4-5	4-9	5-1	5-4	5-8	5-11	6-2	6-5
375.00	4-5	4-9	5-1	5-5	5-10	6-2	6-6	6-9	7-1	7-5
400.00	5-0	5-5	5-10	6-2	6-7	7-0	7-4	7-9	8-1	8-5
425.00	5-8	6-1	6-7	7-0	7-5	7-11	8-4	8-9	9-2	9-6
450.00	6-4	6-10	7-4	7-10	8-4	8-10	9-4	9-9	10-3	10-8
475.00	7-0	7-7	8-2	8-9	9-4	9-10	10-5	10-11	11-5	11-11
500.00	7-10	8-5	9-1	9-8	10-4	10-11	11-6	12-1	12-8	13-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					
SHEET 24 OF 33		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH808.24
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING 3/0 - 6/1 ACSR/AW TENSION 1850 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-3	2-4	2-5	2-7	2-8	2-9	2-10	2-11	3-0	3-1
275.00	2-9	2-10	3-0	3-1	3-2	3-4	3-5	3-7	3-8	3-9
300.00	3-3	3-5	3-6	3-8	3-10	3-11	4-1	4-3	4-4	4-6
325.00	3-9	4-0	4-2	4-4	4-6	4-8	4-10	4-11	5-1	5-3
350.00	4-5	4-7	4-10	5-0	5-2	5-5	5-7	5-9	5-11	6-1
375.00	5-1	5-3	5-6	5-9	5-11	6-2	6-5	6-7	6-10	7-0
400.00	5-9	6-0	6-3	6-6	6-9	7-0	7-3	7-6	7-9	8-0
425.00	6-6	6-9	7-1	7-4	7-8	7-11	8-2	8-6	8-9	9-0
450.00	7-3	7-7	7-11	8-3	8-7	8-11	9-2	9-6	9-10	10-1
475.00	8-1	8-6	8-10	9-2	9-7	9-11	10-3	10-7	10-11	11-3
500.00	9-0	9-5	9-9	10-2	10-7	11-0	11-4	11-9	12-1	12-6
525.00	9-11	10-4	10-10	11-3	11-8	12-1	12-6	12-11	13-4	13-9
550.00	10-10	11-4	11-10	12-4	12-10	13-3	13-9	14-2	14-8	15-1
575.00	11-10	12-5	12-11	13-6	14-0	14-6	15-0	15-6	16-0	16-6
600.00	12-11	13-6	14-1	14-8	15-3	15-10	16-4	16-11	17-5	18-0
625.00	14-0	14-8	15-4	15-11	16-7	17-2	17-9	18-4	18-11	19-6

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SHEET 25 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH808.25
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING 3/0 - 6/1 ACSR/AW TENSION 1850 LBS					

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	1.336	3.62	1850	3.62	1850*
20	0	0	0	0.219	1.06	1029	0.92	1188
30	0	0	0	0.219	1.24	886	1.03	1066
40	0	0	0	0.219	1.44	761	1.16	947
50	0	0	0	0.219	1.67	656	1.31	836
60	0	0	0	0.219	1.92	571	1.49	734
70	0	0	0	0.219	2.17	504	1.7	645
80	0	0	0	0.219	2.43	451	1.92	570
90	0	0	0	0.219	2.68	409	2.16	508
100	0	0	0	0.219	2.92	376	2.39	458
110	0	0	0	0.219	3.09	354	2.63	417
120	0	0	0	0.219	3.21	341	2.86	383
130	0	0	0	0.219	3.33	329	3.08	356
167	0	0	0	0.219	3.77	291	3.7	296
212	0	0	0	0.219	4.27	257	4.21	261
* Design Condition								

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					

SHEET 26 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH808.26
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING 3/0 - 6/1 ACSR/AW TENSION 1850 LBS					

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>27 OF 33</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH808.27
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING 3/0 - 6/1 ACSR/AW TENSION 1850 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	1.336	22.75	1850	22.75	1850*
20	0	0	0	0.219	20.14	342	19.62	351
30	0	0	0	0.219	20.38	338	19.86	347
40	0	0	0	0.219	20.63	334	20.11	343
50	0	0	0	0.219	20.87	330	20.35	339
60	0	0	0	0.219	21.1	327	20.59	335
70	0	0	0	0.219	21.34	323	20.82	331
80	0	0	0	0.219	21.57	320	21.05	327
90	0	0	0	0.219	21.8	316	21.28	324
100	0	0	0	0.219	21.97	314	21.51	320
110	0	0	0	0.219	22.12	312	21.74	317
120	0	0	0	0.219	22.26	310	21.97	314
130	0	0	0	0.219	22.41	308	22.19	311
167	0	0	0	0.219	22.94	301	22.86	302
212	0	0	0	0.219	23.57	293	23.5	294

* Design Condition

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>28 OF 33</h2> </div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH808.28	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING 3/0 - 6/1 ACSR/AW TENSION 1850 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4
125.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7
150.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-10
175.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1
200.00	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-1	1-3	1-5

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-3	0-4	0-5
100.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8
125.00	0-3	0-3	0-4	0-4	0-5	0-6	0-8	0-10	1-0	1-1
150.00	0-4	0-5	0-5	0-6	0-7	0-9	0-11	1-2	1-5	1-6
175.00	0-6	0-6	0-7	0-8	0-10	1-0	1-3	1-7	1-11	2-1
200.00	0-8	0-8	0-10	0-11	1-1	1-4	1-8	2-1	2-6	2-8

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A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					

SHEET 29 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH808.29
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING 3/0 - 6/1 ACSR/AW TENSION 1850 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-6	0-7	0-8
125.00	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0
150.00	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-3	1-4	1-6
175.00	0-8	0-9	0-11	1-0	1-2	1-4	1-6	1-8	1-10	2-0
200.00	0-11	1-0	1-2	1-4	1-6	1-8	1-11	2-2	2-5	2-8
225.00	1-2	1-4	1-6	1-8	1-11	2-2	2-5	2-9	3-0	3-4
250.00	1-5	1-7	1-10	2-1	2-4	2-8	3-0	3-4	3-9	4-1

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-5	0-6	0-7	0-7	0-8	0-9	0-9
125.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-2	1-2
150.00	0-7	0-8	0-10	0-11	1-1	1-3	1-4	1-6	1-8	1-9
175.00	0-10	0-11	1-1	1-3	1-6	1-8	1-10	2-1	2-3	2-4
200.00	1-1	1-3	1-5	1-8	1-11	2-2	2-5	2-8	2-11	3-1
225.00	1-4	1-7	1-10	2-1	2-5	2-9	3-1	3-5	3-8	3-11
250.00	1-8	1-11	2-3	2-7	3-0	3-5	3-10	4-2	4-7	4-10

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					
SHEET 30 OF 33		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH808.30
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING 3/0 - 6/1 ACSR/AW TENSION 1850 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-2	1-3	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-9
175.00	1-7	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5
200.00	2-1	2-3	2-4	2-6	2-7	2-9	2-10	2-11	3-1	3-2
225.00	2-8	2-10	3-0	3-2	3-4	3-6	3-7	3-9	3-11	4-0
250.00	3-4	3-6	3-8	3-11	4-1	4-3	4-5	4-7	4-9	4-11
275.00	4-0	4-3	4-6	4-9	4-11	5-2	5-5	5-7	5-10	6-0
300.00	4-9	5-1	5-4	5-7	5-11	6-2	6-5	6-8	6-11	7-2
325.00	5-7	5-11	6-3	6-7	6-11	7-3	7-6	7-10	8-1	8-4
350.00	6-6	6-11	7-3	7-8	8-0	8-4	8-9	9-1	9-5	9-9
375.00	7-5	7-11	8-4	8-9	9-2	9-7	10-0	10-5	10-9	11-2

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-4	1-5	1-6	1-7	1-7	1-8	1-9	1-10	1-10	1-11
175.00	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7
200.00	2-4	2-6	2-8	2-9	2-10	3-0	3-1	3-2	3-4	3-4
225.00	3-0	3-2	3-4	3-6	3-8	3-9	3-11	4-1	4-2	4-3
250.00	3-8	3-11	4-1	4-4	4-6	4-8	4-10	5-0	5-2	5-3
275.00	4-6	4-9	5-0	5-2	5-5	5-8	5-10	6-1	6-3	6-4
300.00	5-4	5-8	5-11	6-2	6-5	6-8	6-11	7-2	7-5	7-7
325.00	6-3	6-7	6-11	7-3	7-7	7-10	8-2	8-5	8-8	8-10
350.00	7-3	7-8	8-1	8-5	8-9	9-2	9-6	9-10	10-1	10-3
375.00	8-4	8-10	9-3	9-8	10-1	10-6	10-10	11-3	11-7	11-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/1/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>31 OF 33</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH808.31</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING</p> <p>3/0 - 6/1 ACSR/AW TENSION 1850 LBS</p> </div>					

Stringing Sag Table Using Initial Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-10	2-11	2-11	3-0	3-1	3-2	3-2	3-3	3-4	3-4
225.00	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-1	4-2	4-3
250.00	4-5	4-6	4-7	4-9	4-10	4-11	5-0	5-1	5-2	5-3
275.00	5-4	5-6	5-7	5-8	5-10	5-11	6-1	6-2	6-3	6-5
300.00	6-4	6-6	6-8	6-9	6-11	7-1	7-2	7-4	7-6	7-7
325.00	7-5	7-8	7-10	8-0	8-2	8-3	8-5	8-7	8-9	8-11
350.00	8-8	8-10	9-1	9-3	9-5	9-7	9-10	10-0	10-2	10-4
375.00	9-11	10-2	10-5	10-7	10-10	11-0	11-3	11-6	11-8	11-10
400.00	11-4	11-7	11-10	12-1	12-4	12-7	12-10	13-0	13-3	13-6
425.00	12-9	13-1	13-4	13-8	13-11	14-2	14-5	14-9	15-0	15-3
450.00	14-4	14-8	15-0	15-3	15-7	15-11	16-3	16-6	16-10	17-1
475.00	15-11	16-4	16-8	17-0	17-5	17-9	18-1	18-5	18-9	19-1
500.00	17-8	18-1	18-6	18-10	19-3	19-8	20-0	20-5	20-9	21-1

Stringing Sag Table Using Final Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-11	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-5	3-6
225.00	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-3	4-4	4-5
250.00	4-7	4-9	4-10	4-11	5-0	5-1	5-2	5-4	5-4	5-5
275.00	5-7	5-9	5-10	5-11	6-1	6-2	6-4	6-5	6-6	6-7
300.00	6-8	6-10	6-11	7-1	7-3	7-4	7-6	7-8	7-9	7-10
325.00	7-10	8-0	8-2	8-4	8-6	8-8	8-10	8-11	9-1	9-2
350.00	9-1	9-3	9-5	9-8	9-10	10-0	10-2	10-5	10-6	10-8
375.00	10-5	10-8	10-10	11-1	11-4	11-6	11-9	11-11	12-1	12-3
400.00	11-10	12-1	12-4	12-7	12-10	13-1	13-4	13-7	13-9	13-11
425.00	13-4	13-8	13-11	14-3	14-6	14-9	15-1	15-4	15-6	15-8
450.00	15-0	15-4	15-8	16-0	16-3	16-7	16-11	17-2	17-5	17-7
475.00	16-8	17-1	17-5	17-9	18-2	18-6	18-10	19-2	19-5	19-7
500.00	18-6	18-11	19-4	19-9	20-1	20-6	20-10	21-3	21-6	21-9

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SHEET 32 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH808.32
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING 3/0 - 6/1 ACSR/AW TENSION 1850 LBS					

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

1000 LB TENSION -----	809.2
1500 LB TENSION -----	809.10
2000 LB TENSION -----	809.18
2400 LB TENSION -----	809.26

1000 LB TENSION -----	809.34
1500 LB TENSION -----	809.42
2000 LB TENSION -----	809.50
2400 LB TENSION -----	809.58

1000 LB TENSION -----	809.66
1500 LB TENSION -----	809.74
2000 LB TENSION -----	809.82
2400 LB TENSION -----	809.90

1000 LB TENSION -----	809.98
1500 LB TENSION -----	809.106
2000 LB TENSION -----	809.114
2400 LB TENSION -----	809.122

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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<div style="text-align: center;"> <h1>SHEET</h1> <h2>1 OF 129</h2> </div>		<div> Indicates Latest Revision Completely Revised X New Page Information Removed </div> <div>SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS</div> <div>4/0 - 6/1 ACSR/AW TABLE OF CONTENTS</div>									OH809.1

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.466	2.52	925	2.33	1000*
25	0	0	0	0.277	2.12	653	1.84	753
30	0	0	0	0.277	2.25	616	1.95	709
40	0	0	0	0.277	2.5	554	2.19	634
50	0	0	0	0.277	2.75	504	2.42	572
60	0	0	0	0.277	2.98	465	2.65	522
70	0	0	0	0.277	3.21	432	2.88	481
80	0	0	0	0.277	3.43	405	3.1	447
90	0	0	0	0.277	3.63	382	3.31	418
100	0	0	0	0.277	3.83	362	3.52	394
110	0	0	0	0.277	3.95	351	3.72	373
120	0	0	0	0.277	4.07	341	3.91	355
130	0	0	0	0.277	4.18	332	4.09	339
167	0	0	0	0.277	4.57	304	4.53	307
212	0	0	0	0.277	5.02	276	4.98	279
* Design Condition								


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<div style="text-align: center;"> <h1>SHEET</h1> <h2>2 OF 129</h2> </div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH809.2	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1000 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.466	9.67	967	9.35	1000*
25	0	0	0	0.277	9.15	607	8.69	639
30	0	0	0	0.277	9.31	596	8.84	628
40	0	0	0	0.277	9.63	577	9.16	606
50	0	0	0	0.277	9.93	559	9.46	587
60	0	0	0	0.277	10.23	543	9.76	569
70	0	0	0	0.277	10.53	528	10.06	552
80	0	0	0	0.277	10.81	514	10.35	537
90	0	0	0	0.277	11.09	501	10.63	523
100	0	0	0	0.277	11.37	489	10.9	510
110	0	0	0	0.277	11.64	478	11.17	497
120	0	0	0	0.277	11.9	467	11.44	486
130	0	0	0	0.277	12.07	461	11.7	475
167	0	0	0	0.277	12.65	440	12.59	442
212	0	0	0	0.277	13.34	417	13.28	419
* Design Condition								

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<div style="text-align: center;"> <p>SHEET</p> <p>3 OF 129</p> </div>	Indicates Latest Revision		Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH809.3</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING</p> <p>4/0 - 6/1 ACSR/AW TENSION 1000 LBS</p> </div>						

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.466	14.98	977	14.63	1000*
25	0	0	0	0.277	14.43	602	13.94	623
30	0	0	0	0.277	14.6	595	14.11	616
40	0	0	0	0.277	14.93	582	14.43	602
50	0	0	0	0.277	15.25	570	14.75	589
60	0	0	0	0.277	15.56	558	15.06	577
70	0	0	0	0.277	15.87	548	15.37	565
80	0	0	0	0.277	16.17	537	15.67	555
90	0	0	0	0.277	16.47	528	15.97	544
100	0	0	0	0.277	16.77	519	16.26	535
110	0	0	0	0.277	17.06	510	16.55	525
120	0	0	0	0.277	17.34	502	16.84	516
130	0	0	0	0.277	17.58	495	17.12	508
167	0	0	0	0.277	18.23	477	18.13	480
212	0	0	0	0.277	18.99	459	18.93	460
* Design Condition								

* Design Condition

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SHEET 4 OF 129	Indicates Latest Revision	Completely Revised		New Page	Information Removed	OH809.4
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10
100.00	0-4	0-5	0-6	0-8	0-9	0-11	1-1	1-3	1-4	1-6
125.00	0-7	0-8	0-10	1-0	1-2	1-5	1-8	1-11	2-1	2-4
150.00	0-9	0-11	1-2	1-5	1-9	2-1	2-5	2-9	3-0	3-4
175.00	1-1	1-3	1-7	1-11	2-4	2-10	3-3	3-9	4-1	4-6
200.00	1-5	1-8	2-1	2-6	3-1	3-8	4-3	4-10	5-5	5-11

Stringing Sag Table Using Final Sag

Ruling Span: 100.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-4	0-5	0-6	0-8	0-9	0-9	0-10	0-10
100.00	0-5	0-6	0-8	0-10	1-0	1-1	1-3	1-4	1-5	1-6
125.00	0-7	0-9	1-0	1-3	1-6	1-9	2-0	2-2	2-3	2-4
150.00	0-11	1-2	1-5	1-10	2-2	2-6	2-10	3-1	3-3	3-5
175.00	1-3	1-7	2-0	2-5	2-11	3-5	3-10	4-2	4-5	4-8
200.00	1-7	2-0	2-7	3-2	3-10	4-6	5-1	5-5	5-9	6-1

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SHEET 5 OF 129	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH809.5
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11	0-11
125.00	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-4	1-4	1-5
150.00	1-0	1-1	1-3	1-4	1-6	1-7	1-9	1-10	2-0	2-1
175.00	1-4	1-6	1-8	1-10	2-0	2-2	2-4	2-6	2-8	2-10
200.00	1-9	1-11	2-2	2-5	2-8	2-11	3-1	3-4	3-6	3-9
225.00	2-2	2-6	2-9	3-1	3-4	3-8	3-11	4-2	4-5	4-8
250.00	2-8	3-1	3-5	3-9	4-2	4-6	4-10	5-2	5-6	5-10

Stringing Sag Table Using Final Sag

Ruling Span: 200.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11	0-11	1-0
125.00	0-9	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7
150.00	1-1	1-3	1-5	1-7	1-8	1-10	1-11	2-1	2-2	2-3
175.00	1-6	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-0
200.00	2-0	2-3	2-6	2-9	3-0	3-3	3-5	3-8	3-10	3-11
225.00	2-6	2-10	3-2	3-6	3-9	4-1	4-4	4-7	4-10	5-0
250.00	3-1	3-6	3-11	4-4	4-8	5-0	5-4	5-8	6-0	6-2

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SHEET 6 OF 129	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH809.6
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-9
175.00	1-6	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4
200.00	2-0	2-2	2-3	2-5	2-6	2-7	2-9	2-10	3-0	3-1
225.00	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-7	3-9	3-11
250.00	3-1	3-4	3-6	3-9	3-11	4-1	4-3	4-6	4-8	4-10
275.00	3-9	4-0	4-3	4-6	4-9	5-0	5-2	5-5	5-7	5-10
300.00	4-6	4-9	5-1	5-4	5-8	5-11	6-2	6-5	6-8	6-11
325.00	5-3	5-7	5-11	6-3	6-7	6-11	7-3	7-7	7-10	8-1
350.00	6-1	6-6	6-11	7-4	7-8	8-1	8-5	8-9	9-1	9-5
375.00	7-0	7-6	7-11	8-5	8-10	9-3	9-8	10-1	10-5	10-10

Stringing Sag Table Using Final Sag

Ruling Span: 300.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-3	1-4	1-4	1-5	1-6	1-7	1-8	1-8	1-9	1-10
175.00	1-8	1-9	1-10	2-0	2-1	2-2	2-3	2-4	2-5	2-6
200.00	2-2	2-4	2-5	2-7	2-8	2-10	2-11	3-0	3-2	3-3
225.00	2-9	2-11	3-1	3-3	3-5	3-7	3-8	3-10	4-0	4-1
250.00	3-5	3-7	3-10	4-0	4-2	4-5	4-7	4-9	4-11	5-1
275.00	4-1	4-4	4-7	4-10	5-1	5-4	5-6	5-9	5-11	6-2
300.00	4-11	5-2	5-6	5-9	6-1	6-4	6-7	6-10	7-1	7-4
325.00	5-9	6-1	6-5	6-9	7-1	7-5	7-9	8-0	8-4	8-7
350.00	6-8	7-1	7-6	7-10	8-3	8-7	9-0	9-4	9-8	10-0
375.00	7-8	8-1	8-7	9-0	9-6	9-11	10-3	10-8	11-1	11-5

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SHEET 7 OF 129	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH809.7
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag									Ruling Span: 400.0	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-2	2-3	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-9
225.00	2-8	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6
250.00	3-4	3-5	3-7	3-8	3-10	3-11	4-0	4-2	4-3	4-4
275.00	4-0	4-2	4-4	4-6	4-7	4-9	4-11	5-0	5-2	5-3
300.00	4-10	5-0	5-2	5-4	5-6	5-8	5-10	6-0	6-2	6-3
325.00	5-8	5-10	6-1	6-3	6-5	6-8	6-10	7-0	7-2	7-4
350.00	6-6	6-9	7-0	7-3	7-6	7-8	7-11	8-2	8-4	8-7
375.00	7-6	7-9	8-1	8-4	8-7	8-10	9-1	9-4	9-7	9-10
400.00	8-6	8-10	9-2	9-6	9-9	10-1	10-4	10-8	10-11	11-2
425.00	9-7	10-0	10-4	10-8	11-0	11-4	11-8	12-0	12-4	12-7
450.00	10-9	11-2	11-7	12-0	12-4	12-9	13-1	13-5	13-10	14-2
475.00	12-0	12-6	12-11	13-4	13-9	14-2	14-7	15-0	15-5	15-9
500.00	13-4	13-10	14-4	14-10	15-3	15-9	16-2	16-7	17-1	17-6

Stringing Sag Table Using Final Sag									Ruling Span:	400.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-3	2-4	2-5	2-6	2-7	2-8	2-8	2-9	2-10	2-11
225.00	2-10	2-11	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8
250.00	3-6	3-8	3-9	3-11	4-0	4-1	4-3	4-4	4-5	4-7
275.00	4-3	4-5	4-7	4-8	4-10	5-0	5-1	5-3	5-4	5-6
300.00	5-1	5-3	5-5	5-7	5-9	5-11	6-1	6-3	6-5	6-7
325.00	5-11	6-2	6-4	6-7	6-9	6-11	7-2	7-4	7-6	7-8
350.00	6-11	7-2	7-4	7-7	7-10	8-1	8-3	8-6	8-8	8-11
375.00	7-11	8-2	8-6	8-9	9-0	9-3	9-6	9-9	10-0	10-3
400.00	9-0	9-4	9-8	9-11	10-3	10-6	10-10	11-1	11-4	11-8
425.00	10-2	10-6	10-10	11-3	11-7	11-11	12-3	12-6	12-10	13-2
450.00	11-5	11-9	12-2	12-7	12-11	13-4	13-8	14-1	14-5	14-9
475.00	12-8	13-2	13-7	14-0	14-5	14-10	15-3	15-8	16-0	16-5
500.00	14-1	14-7	15-1	15-6	16-0	16-5	16-11	17-4	17-9	18-2

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="display: flex; align-items: center;"> <div style="flex: 1;"> <p style="font-size: 24pt; margin: 0;">SHEET</p> <p style="font-size: 24pt; margin: 0;">8 OF 129</p> </div> <div style="flex: 2; border: 1px solid black; padding: 5px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> Indicates Latest Revision Completely Revised X New Page Information Removed </div> <div style="text-align: center; padding: 10px;"> <p>SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS</p> <p>STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING</p> <p>4/0 - 6/1 ACSR/AW TENSION 1000 LBS</p> </div> </div> <div style="flex: 1; text-align: right;"> <p style="font-size: 24pt; margin: 0;">OH809.8</p> </div> </div>											

Stringing Sag Table Using Initial Sag									Ruling Span:	500.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2
275.00	4-2	4-3	4-4	4-5	4-7	4-8	4-9	4-10	4-11	5-0
300.00	4-11	5-1	5-2	5-4	5-5	5-6	5-8	5-9	5-10	5-11
325.00	5-10	5-11	6-1	6-3	6-4	6-6	6-7	6-9	6-10	7-0
350.00	6-9	6-11	7-1	7-3	7-4	7-6	7-8	7-10	8-0	8-1
375.00	7-9	7-11	8-1	8-3	8-6	8-8	8-10	9-0	9-2	9-4
400.00	8-10	9-0	9-3	9-5	9-8	9-10	10-0	10-3	10-5	10-7
425.00	9-11	10-2	10-5	10-8	10-11	11-1	11-4	11-6	11-9	11-11
450.00	11-2	11-5	11-8	11-11	12-2	12-5	12-8	12-11	13-2	13-5
475.00	12-5	12-9	13-0	13-4	13-7	13-10	14-2	14-5	14-8	14-11
500.00	13-9	14-1	14-5	14-9	15-1	15-4	15-8	16-0	16-3	16-7
525.00	15-2	15-7	15-11	16-3	16-7	16-11	17-3	17-7	17-11	18-3
550.00	16-8	17-1	17-6	17-10	18-3	18-7	19-0	19-4	19-8	20-0
575.00	18-3	18-8	19-1	19-6	19-11	20-4	20-9	21-2	21-6	21-11
600.00	19-10	20-4	20-9	21-3	21-8	22-2	22-7	23-0	23-5	23-10
625.00	21-6	22-1	22-7	23-1	23-7	24-0	24-6	25-0	25-5	25-11

Stringing Sag Table Using Final Sag									Ruling Span:	500.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-7	3-8	3-9	3-10	3-11	4-0	4-0	4-1	4-2	4-3
275.00	4-4	4-5	4-6	4-7	4-8	4-10	4-11	5-0	5-1	5-2
300.00	5-2	5-3	5-4	5-6	5-7	5-8	5-10	5-11	6-0	6-2
325.00	6-0	6-2	6-4	6-5	6-7	6-8	6-10	6-11	7-1	7-2
350.00	7-0	7-2	7-4	7-6	7-7	7-9	7-11	8-1	8-3	8-4
375.00	8-0	8-3	8-5	8-7	8-9	8-11	9-1	9-3	9-5	9-7
400.00	9-2	9-4	9-7	9-9	9-11	10-2	10-4	10-6	10-9	10-11
425.00	10-4	10-7	10-9	11-0	11-3	11-6	11-8	11-11	12-1	12-4
450.00	11-7	11-10	12-1	12-4	12-7	12-10	13-1	13-4	13-7	13-10
475.00	12-11	13-2	13-6	13-9	14-0	14-4	14-7	14-10	15-2	15-5
500.00	14-3	14-7	14-11	15-3	15-7	15-10	16-2	16-6	16-9	17-1
525.00	15-9	16-1	16-5	16-10	17-2	17-6	17-10	18-2	18-6	18-10
550.00	17-3	17-8	18-1	18-5	18-10	19-2	19-7	19-11	20-4	20-8
575.00	18-11	19-4	19-9	20-2	20-7	21-0	21-5	21-10	22-2	22-7
600.00	20-7	21-0	21-6	22-0	22-5	22-10	23-4	23-9	24-2	24-7
625.00	22-4	22-10	23-4	23-10	24-4	24-10	25-3	25-9	26-3	26-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 9 OF 129		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH809.9
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1000 LBS										

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.466	6.64	1408	6.23	1500*
25	0	0	0	0.277	5.68	976	5.01	1106
30	0	0	0	0.277	5.88	943	5.19	1067
40	0	0	0	0.277	6.28	883	5.56	997
50	0	0	0	0.277	6.67	831	5.93	935
60	0	0	0	0.277	7.06	786	6.3	881
70	0	0	0	0.277	7.43	747	6.66	833
80	0	0	0	0.277	7.8	712	7.02	790
90	0	0	0	0.277	8.15	681	7.38	752
100	0	0	0	0.277	8.49	653	7.72	718
110	0	0	0	0.277	8.83	629	8.06	688
120	0	0	0	0.277	9.16	606	8.4	661
130	0	0	0	0.277	9.48	586	8.72	636
167	0	0	0	0.277	10.16	547	9.87	563
212	0	0	0	0.277	10.94	508	10.85	512

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 11 OF 129		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH809.11
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.466	10.23	1428	9.73	1500*
25	0	0	0	0.277	9.17	946	8.36	1037
30	0	0	0	0.277	9.39	923	8.57	1012
40	0	0	0	0.277	9.83	882	8.99	965
50	0	0	0	0.277	10.25	846	9.4	922
60	0	0	0	0.277	10.67	813	9.81	884
70	0	0	0	0.277	11.08	783	10.21	849
80	0	0	0	0.277	11.48	756	10.61	817
90	0	0	0	0.277	11.87	731	11	788
100	0	0	0	0.277	12.25	708	11.38	762
110	0	0	0	0.277	12.62	688	11.76	738
120	0	0	0	0.277	12.99	668	12.13	715
130	0	0	0	0.277	13.34	651	12.49	695
167	0	0	0	0.277	14.26	609	13.77	630
212	0	0	0	0.277	15.15	573	15.05	577
* Design Condition								

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET
12 OF 129

Indicates Latest Revision

Completely Revised

	X
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New Page

Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.12

Stringing Sag Table Using Initial Sag									Ruling Span:	100
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7
100.00	0-3	0-3	0-3	0-4	0-5	0-6	0-7	0-9	0-11	1-1
125.00	0-4	0-5	0-5	0-6	0-8	0-9	0-11	1-2	1-5	1-8
150.00	0-6	0-7	0-8	0-9	0-11	1-1	1-4	1-8	2-0	2-4
175.00	0-8	0-9	0-11	1-0	1-3	1-6	1-10	2-3	2-9	3-2
200.00	0-11	1-0	1-2	1-4	1-7	2-0	2-5	3-0	3-7	4-2

Stringing Sag Table Using Final Sag									Ruling Span:	100
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-4	0-5	0-6	0-7	0-7	0-8
100.00	0-3	0-4	0-4	0-5	0-7	0-9	0-11	1-0	1-1	1-2
125.00	0-5	0-6	0-7	0-8	0-11	1-2	1-5	1-7	1-9	1-10
150.00	0-7	0-8	0-10	1-0	1-3	1-7	2-0	2-4	2-6	2-8
175.00	0-9	0-11	1-1	1-5	1-9	2-3	2-8	3-2	3-4	3-7
200.00	1-0	1-2	1-5	1-10	2-4	2-11	3-6	4-1	4-5	4-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>13 OF 129</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH809.13
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 200

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-8
125.00	0-5	0-5	0-6	0-7	0-7	0-8	0-10	0-11	1-0	1-1
150.00	0-7	0-7	0-8	0-9	0-11	1-0	1-2	1-3	1-5	1-7
175.00	0-9	0-10	0-11	1-1	1-3	1-5	1-7	1-9	1-11	2-1
200.00	1-0	1-1	1-3	1-5	1-7	1-10	2-0	2-3	2-6	2-9
225.00	1-3	1-5	1-7	1-9	2-0	2-3	2-7	2-11	3-2	3-6
250.00	1-6	1-8	1-11	2-2	2-6	2-10	3-2	3-7	3-11	4-3

Stringing Sag Table Using Final Sag

Ruling Span: 200

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-5	0-5	0-6	0-7	0-8	0-8	0-9	0-10
125.00	0-5	0-6	0-7	0-8	0-9	0-11	1-0	1-1	1-2	1-3
150.00	0-8	0-9	0-10	1-0	1-2	1-3	1-5	1-7	1-8	1-9
175.00	0-10	1-0	1-2	1-4	1-7	1-9	1-11	2-1	2-4	2-5
200.00	1-2	1-4	1-6	1-9	2-0	2-3	2-6	2-9	3-0	3-2
225.00	1-5	1-8	1-11	2-3	2-7	2-10	3-2	3-6	3-10	4-0
250.00	1-9	2-1	2-5	2-9	3-2	3-7	3-11	4-4	4-8	5-0

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 14 OF 129	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH809.14
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag									Ruling Span:	300
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-1	1-2	1-3
175.00	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-6	1-8	1-9
200.00	1-1	1-2	1-4	1-5	1-7	1-9	1-10	2-0	2-1	2-3
225.00	1-5	1-6	1-8	1-10	2-0	2-2	2-4	2-6	2-8	2-10
250.00	1-8	1-11	2-1	2-3	2-6	2-8	2-11	3-1	3-4	3-6
275.00	2-1	2-3	2-6	2-9	3-0	3-3	3-6	3-9	4-0	4-3
300.00	2-5	2-8	3-0	3-3	3-7	3-10	4-2	4-6	4-9	5-1
325.00	2-11	3-2	3-6	3-10	4-2	4-6	4-11	5-3	5-7	5-11
350.00	3-4	3-8	4-1	4-5	4-10	5-3	5-8	6-1	6-6	6-11
375.00	3-10	4-3	4-8	5-1	5-7	6-0	6-6	7-0	7-6	7-11

Stringing Sag Table Using Final Sag									Ruling Span:	300
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-10	0-11	1-0	1-1	1-2	1-2	1-3	1-4	1-5
175.00	1-0	1-1	1-2	1-4	1-5	1-6	1-8	1-9	1-10	1-11
200.00	1-3	1-5	1-7	1-9	1-10	2-0	2-2	2-3	2-5	2-6
225.00	1-7	1-9	2-0	2-2	2-4	2-6	2-9	2-11	3-1	3-3
250.00	2-0	2-2	2-5	2-8	2-11	3-2	3-4	3-7	3-9	4-0
275.00	2-5	2-8	2-11	3-3	3-6	3-9	4-1	4-4	4-7	4-10
300.00	2-10	3-2	3-6	3-10	4-2	4-6	4-10	5-2	5-5	5-9
325.00	3-4	3-9	4-1	4-6	4-11	5-3	5-8	6-0	6-4	6-8
350.00	3-11	4-4	4-9	5-3	5-8	6-2	6-7	7-0	7-5	7-9
375.00	4-6	5-0	5-6	6-0	6-6	7-0	7-6	8-0	8-6	8-11

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Stringing Sag Table Using Initial Sag									Ruling Span:	400
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0
225.00	1-6	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-5	2-7
250.00	1-11	2-0	2-2	2-4	2-6	2-7	2-9	2-11	3-0	3-2
275.00	2-3	2-5	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-10
300.00	2-9	2-11	3-2	3-4	3-6	3-9	3-11	4-2	4-4	4-6
325.00	3-2	3-5	3-8	3-11	4-2	4-5	4-8	4-10	5-1	5-4
350.00	3-8	4-0	4-3	4-6	4-10	5-1	5-4	5-8	5-11	6-2
375.00	4-3	4-7	4-11	5-3	5-6	5-10	6-2	6-6	6-9	7-1
400.00	4-10	5-2	5-7	5-11	6-4	6-8	7-0	7-5	7-9	8-1
425.00	5-6	5-10	6-3	6-8	7-1	7-6	7-11	8-4	8-9	9-1
450.00	6-1	6-7	7-0	7-6	8-0	8-5	8-11	9-4	9-9	10-2
475.00	6-10	7-4	7-10	8-4	8-11	9-5	9-11	10-5	10-11	11-4
500.00	7-7	8-1	8-8	9-3	9-10	10-5	11-0	11-6	12-1	12-7

Stringing Sag Table Using Final Sag									Ruling Span:	400
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-4	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2
225.00	1-9	1-10	2-0	2-1	2-3	2-4	2-6	2-7	2-8	2-10
250.00	2-2	2-4	2-5	2-7	2-9	2-11	3-1	3-2	3-4	3-5
275.00	2-7	2-9	3-0	3-2	3-4	3-6	3-8	3-10	4-0	4-2
300.00	3-1	3-4	3-6	3-9	4-0	4-2	4-5	4-7	4-9	5-0
325.00	3-7	3-11	4-2	4-5	4-8	4-11	5-2	5-5	5-7	5-10
350.00	4-2	4-6	4-10	5-1	5-5	5-8	6-0	6-3	6-6	6-9
375.00	4-10	5-2	5-6	5-10	6-2	6-6	6-10	7-2	7-6	7-9
400.00	5-6	5-11	6-3	6-8	7-1	7-5	7-10	8-2	8-6	8-10
425.00	6-2	6-8	7-1	7-6	8-0	8-5	8-10	9-2	9-7	10-0
450.00	6-11	7-5	7-11	8-5	8-11	9-5	9-10	10-4	10-9	11-2
475.00	7-9	8-4	8-10	9-5	9-11	10-6	11-0	11-6	12-0	12-5
500.00	8-7	9-2	9-10	10-5	11-0	11-7	12-2	12-9	13-3	13-10

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Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.466	1.31	1783	1.17	2000*
25	0	0	0	0.277	0.85	1637	0.73	1909
30	0	0	0	0.277	0.9	1533	0.76	1829
40	0	0	0	0.277	1.04	1334	0.83	1669
50	0	0	0	0.277	1.2	1150	0.92	1509
60	0	0	0	0.277	1.4	988	1.02	1352
70	0	0	0	0.277	1.63	851	1.15	1201
80	0	0	0	0.277	1.87	739	1.31	1059
90	0	0	0	0.277	2.13	651	1.49	930
100	0	0	0	0.277	2.38	581	1.7	816
110	0	0	0	0.277	2.6	532	1.92	721
120	0	0	0	0.277	2.72	509	2.16	642
130	0	0	0	0.277	2.84	488	2.4	578
167	0	0	0	0.277	3.29	422	3.19	434
212	0	0	0	0.277	3.82	364	3.72	373
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 18 OF 129		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH809.18
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2000 LBS											

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>20 OF 129</div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH809.20	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 100

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4
100.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-6	0-7
125.00	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-8	0-9	0-11
150.00	0-5	0-5	0-5	0-6	0-7	0-8	0-9	0-11	1-1	1-4
175.00	0-6	0-7	0-7	0-8	0-9	0-11	1-0	1-3	1-6	1-10
200.00	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-7	2-0	2-5

Stringing Sag Table Using Final Sag

Ruling Span: 100

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-2	0-2	0-2	0-3	0-4	0-5	0-5	0-6
100.00	0-2	0-3	0-3	0-4	0-4	0-5	0-7	0-9	0-10	0-11
125.00	0-4	0-4	0-5	0-6	0-7	0-9	0-11	1-2	1-3	1-4
150.00	0-5	0-6	0-7	0-8	0-10	1-0	1-4	1-8	1-10	2-0
175.00	0-7	0-8	0-9	0-11	1-1	1-5	1-9	2-3	2-6	2-8
200.00	0-9	0-10	1-0	1-2	1-5	1-10	2-4	2-11	3-3	3-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 21 OF 129	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH809.21
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 200

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6
125.00	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1
175.00	0-6	0-7	0-8	0-8	0-9	0-11	1-0	1-2	1-4	1-6
200.00	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-6	1-8	1-11
225.00	0-11	1-0	1-1	1-2	1-4	1-6	1-8	1-11	2-2	2-5
250.00	1-1	1-2	1-4	1-5	1-7	1-10	2-1	2-4	2-8	3-0

Stringing Sag Table Using Final Sag

Ruling Span: 200

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-6	0-7	0-8
125.00	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0
150.00	0-5	0-6	0-7	0-8	0-9	0-11	1-1	1-2	1-4	1-6
175.00	0-7	0-8	0-10	0-11	1-1	1-3	1-5	1-8	1-10	2-0
200.00	0-10	0-11	1-0	1-2	1-5	1-8	1-10	2-2	2-5	2-7
225.00	1-0	1-2	1-4	1-6	1-9	2-1	2-4	2-8	3-0	3-4
250.00	1-3	1-5	1-7	1-11	2-2	2-7	2-11	3-4	3-9	4-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 22 OF 129	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH809.22
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag									Ruling Span:	300
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-11
175.00	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3
200.00	0-9	0-10	0-10	0-11	1-1	1-2	1-3	1-5	1-6	1-8
225.00	0-11	1-0	1-1	1-2	1-4	1-6	1-7	1-9	1-11	2-1
250.00	1-2	1-3	1-4	1-6	1-8	1-10	2-0	2-2	2-5	2-7
275.00	1-5	1-6	1-8	1-10	2-0	2-2	2-5	2-8	2-11	3-2
300.00	1-8	1-10	2-0	2-2	2-4	2-7	2-10	3-2	3-5	3-9
325.00	1-11	2-1	2-4	2-6	2-9	3-1	3-4	3-8	4-1	4-5
350.00	2-3	2-5	2-8	2-11	3-3	3-6	3-11	4-3	4-8	5-1
375.00	2-7	2-10	3-1	3-4	3-8	4-1	4-6	4-11	5-5	5-10

Stringing Sag Table Using Final Sag									Ruling Span:	300
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2
175.00	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-4	1-6	1-7
200.00	0-10	1-0	1-1	1-3	1-4	1-6	1-8	1-10	1-11	2-1
225.00	1-1	1-3	1-4	1-6	1-9	1-11	2-1	2-3	2-5	2-8
250.00	1-4	1-6	1-8	1-11	2-1	2-4	2-7	2-10	3-0	3-3
275.00	1-7	1-10	2-0	2-3	2-7	2-10	3-1	3-5	3-8	3-11
300.00	1-11	2-2	2-5	2-9	3-0	3-4	3-8	4-0	4-4	4-8
325.00	2-3	2-6	2-10	3-2	3-7	3-11	4-4	4-9	5-2	5-6
350.00	2-7	2-11	3-4	3-8	4-2	4-7	5-1	5-6	5-11	6-5
375.00	3-0	3-5	3-10	4-3	4-9	5-3	5-9	6-4	6-10	7-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>23 OF 129</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH809.23</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING</p> <p>4/0 - 6/1 ACSR/AW TENSION 2000 LBS</p> </div>					

Span = 100 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.466	0.28	2090	0.24	2400*
25	0	0	0	0.277	0.17	2061	0.15	2384
30	0	0	0	0.277	0.18	1944	0.15	2304
40	0	0	0	0.277	0.2	1712	0.16	2142
50	0	0	0	0.277	0.23	1482	0.18	1976
60	0	0	0	0.277	0.28	1256	0.19	1807
70	0	0	0	0.277	0.33	1039	0.21	1634
80	0	0	0	0.277	0.41	836	0.24	1460
90	0	0	0	0.277	0.52	660	0.27	1283
100	0	0	0	0.277	0.63	554	0.31	1107
110	0	0	0	0.277	0.68	512	0.37	934
120	0	0	0	0.277	0.73	472	0.45	770
130	0	0	0	0.277	0.8	435	0.55	624
167	0	0	0	0.277	1.06	328	0.97	357
212	0	0	0	0.277	1.4	248	1.3	266

* Design Condition

Span = 200 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.466	1.11	2109	0.97	2400*
25	0	0	0	0.277	0.69	2000	0.59	2338
30	0	0	0	0.277	0.73	1889	0.61	2259
40	0	0	0	0.277	0.83	1673	0.66	2101
50	0	0	0	0.277	0.95	1466	0.71	1940
60	0	0	0	0.277	1.09	1271	0.78	1779
70	0	0	0	0.277	1.27	1094	0.86	1617
80	0	0	0	0.277	1.47	940	0.95	1456
90	0	0	0	0.277	1.71	811	1.07	1300
100	0	0	0	0.277	1.96	707	1.2	1150
110	0	0	0	0.277	2.2	630	1.37	1011
120	0	0	0	0.277	2.31	600	1.56	886
130	0	0	0	0.277	2.42	572	1.78	779
167	0	0	0	0.277	2.86	484	2.65	522
212	0	0	0	0.277	3.4	407	3.27	424

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>26 OF 129</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH809.26
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2400 LBS									

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET
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Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4
125.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7
150.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-10
175.00	0-5	0-6	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-2
200.00	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-1	1-3	1-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-4	0-4	0-5
100.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-8	0-8
125.00	0-3	0-3	0-4	0-4	0-5	0-6	0-8	0-10	1-0	1-1
150.00	0-4	0-5	0-5	0-6	0-7	0-9	0-11	1-2	1-5	1-6
175.00	0-6	0-7	0-7	0-9	0-10	1-0	1-3	1-7	1-11	2-1
200.00	0-8	0-9	0-10	0-11	1-1	1-4	1-8	2-1	2-6	2-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 29 OF 129		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH809.29
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2400 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4
125.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-6
150.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9
175.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-1
200.00	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-1	1-2	1-4
225.00	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-6	1-9
250.00	0-11	0-11	1-0	1-1	1-3	1-4	1-6	1-8	1-11	2-2

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-7
125.00	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10
150.00	0-4	0-5	0-6	0-6	0-7	0-9	0-10	1-0	1-1	1-3
175.00	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-4	1-6	1-8
200.00	0-8	0-9	0-10	0-11	1-1	1-3	1-6	1-9	2-0	2-2
225.00	0-10	0-11	1-1	1-2	1-5	1-7	1-10	2-2	2-6	2-9
250.00	1-0	1-2	1-4	1-6	1-8	2-0	2-4	2-8	3-1	3-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 30 OF 129	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH809.30
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2400 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9
175.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0
200.00	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-1	1-2	1-3
225.00	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-4	1-6	1-7
250.00	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-8	1-10	2-0
275.00	1-1	1-2	1-3	1-5	1-6	1-8	1-10	2-0	2-2	2-5
300.00	1-4	1-5	1-6	1-8	1-10	1-11	2-2	2-4	2-7	2-10
325.00	1-7	1-8	1-10	1-11	2-1	2-4	2-6	2-9	3-1	3-4
350.00	1-10	1-11	2-1	2-3	2-5	2-8	2-11	3-3	3-7	3-11
375.00	2-1	2-3	2-5	2-7	2-10	3-1	3-4	3-8	4-1	4-6

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0
175.00	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-4
200.00	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-6	1-8	1-9
225.00	0-10	1-0	1-1	1-3	1-4	1-6	1-8	1-11	2-1	2-3
250.00	1-1	1-2	1-4	1-6	1-8	1-11	2-1	2-4	2-7	2-10
275.00	1-4	1-5	1-7	1-10	2-0	2-3	2-7	2-10	3-1	3-5
300.00	1-7	1-9	1-11	2-2	2-5	2-9	3-0	3-4	3-8	4-0
325.00	1-10	2-0	2-3	2-6	2-10	3-2	3-7	3-11	4-4	4-9
350.00	2-1	2-4	2-7	2-11	3-3	3-8	4-1	4-7	5-0	5-6
375.00	2-5	2-8	3-0	3-4	3-9	4-3	4-9	5-3	5-9	6-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET 31 OF 129</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH809.31
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2400 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-7	0-8	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-2
225.00	0-9	0-10	0-11	1-0	1-0	1-1	1-3	1-4	1-5	1-6
250.00	1-0	1-0	1-1	1-2	1-3	1-5	1-6	1-7	1-9	1-11
275.00	1-2	1-3	1-4	1-5	1-7	1-8	1-10	1-11	2-1	2-3
300.00	1-5	1-6	1-7	1-8	1-10	2-0	2-2	2-4	2-6	2-9
325.00	1-8	1-9	1-10	2-0	2-2	2-4	2-6	2-9	2-11	3-2
350.00	1-11	2-0	2-2	2-4	2-6	2-9	2-11	3-2	3-5	3-8
375.00	2-2	2-4	2-6	2-8	2-11	3-1	3-4	3-8	3-11	4-3
400.00	2-6	2-8	2-10	3-0	3-3	3-6	3-10	4-2	4-6	4-10
425.00	2-9	3-0	3-2	3-5	3-8	4-0	4-4	4-8	5-1	5-5
450.00	3-2	3-4	3-7	3-10	4-2	4-6	4-10	5-3	5-8	6-1
475.00	3-6	3-9	4-0	4-3	4-7	5-0	5-5	5-10	6-4	6-10
500.00	3-10	4-1	4-5	4-9	5-1	5-6	6-0	6-6	7-0	7-7

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7
225.00	0-11	1-0	1-1	1-3	1-4	1-6	1-7	1-9	1-10	2-0
250.00	1-2	1-3	1-4	1-6	1-8	1-10	2-0	2-1	2-3	2-5
275.00	1-4	1-6	1-8	1-10	2-0	2-2	2-5	2-7	2-9	2-11
300.00	1-8	1-10	2-0	2-2	2-5	2-7	2-10	3-1	3-3	3-6
325.00	1-11	2-1	2-4	2-7	2-10	3-1	3-4	3-7	3-10	4-1
350.00	2-3	2-5	2-8	2-11	3-3	3-7	3-10	4-2	4-6	4-9
375.00	2-7	2-10	3-1	3-5	3-9	4-1	4-5	4-9	5-2	5-6
400.00	2-11	3-2	3-6	3-10	4-3	4-8	5-0	5-5	5-10	6-3
425.00	3-3	3-7	4-0	4-4	4-9	5-3	5-8	6-2	6-7	7-1
450.00	3-8	4-0	4-5	4-11	5-4	5-10	6-4	6-11	7-5	7-11
475.00	4-1	4-6	4-11	5-5	6-0	6-6	7-1	7-8	8-3	8-10
500.00	4-6	5-0	5-6	6-0	6-7	7-3	7-10	8-6	9-2	9-9

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 32 OF 129		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH809.32
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2400 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET 34 OF 129</div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH809.34
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1000 LBS									

* Design Condition

* Design Condition

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 35 OF 129		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH809.35
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1000 LBS									

Span = 500 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.577	18.4	986	18.14	1000*
20	0	0	0	0.277	16.97	513	16.58	524
30	0	0	0	0.277	17.25	504	16.86	516
40	0	0	0	0.277	17.54	496	17.14	507
50	0	0	0	0.277	17.82	488	17.42	499
60	0	0	0	0.277	18.09	481	17.69	492
70	0	0	0	0.277	18.36	474	17.96	484
80	0	0	0	0.277	18.63	467	18.23	477
90	0	0	0	0.277	18.89	461	18.49	471
100	0	0	0	0.277	19.15	455	18.75	464
110	0	0	0	0.277	19.41	449	19.01	458
120	0	0	0	0.277	19.66	443	19.26	452
130	0	0	0	0.277	19.82	440	19.51	446
167	0	0	0	0.277	20.41	427	20.35	428
212	0	0	0	0.277	21.1	413	21.05	414

* Design Condition

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SHEET
36 OF 129

Indicates Latest Revision

Completely Revised



New Page

Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1000 LBS

OH809.36

Stringing Sag Table Using Initial Sag									Ruling Span:	100.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8
100.00	0-3	0-4	0-4	0-5	0-6	0-8	0-9	0-11	1-1	1-3
125.00	0-5	0-6	0-7	0-8	0-10	1-0	1-2	1-5	1-8	1-11
150.00	0-7	0-8	0-9	0-11	1-2	1-5	1-9	2-1	2-5	2-9
175.00	0-10	0-11	1-1	1-3	1-7	1-11	2-4	2-10	3-3	3-8
200.00	1-0	1-2	1-5	1-8	2-0	2-6	3-1	3-8	4-3	4-10

Stringing Sag Table Using Final Sag									Ruling Span:	100.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-4	0-5	0-6	0-7	0-8	0-8	0-9
100.00	0-3	0-4	0-5	0-7	0-8	0-10	1-0	1-2	1-3	1-4
125.00	0-5	0-7	0-8	0-10	1-1	1-4	1-7	1-10	1-11	2-0
150.00	0-8	0-9	1-0	1-3	1-7	1-11	2-3	2-7	2-9	2-11
175.00	0-11	1-1	1-4	1-8	2-2	2-8	3-1	3-6	3-9	4-0
200.00	1-2	1-5	1-9	2-3	2-10	3-5	4-1	4-7	4-11	5-2

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C						F						
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 37 OF 129		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH809.37
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1000 LBS										

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-5	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11
125.00	0-7	0-8	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
150.00	0-11	1-0	1-2	1-3	1-5	1-6	1-8	1-9	1-11	2-0
175.00	1-3	1-5	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9
200.00	1-7	1-10	2-0	2-3	2-6	2-9	3-0	3-2	3-5	3-7
225.00	2-0	2-3	2-7	2-10	3-2	3-6	3-9	4-0	4-3	4-7
250.00	2-6	2-10	3-2	3-7	3-11	4-3	4-8	5-0	5-4	5-7

Stringing Sag Table Using Final Sag

Ruling Span: 200.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0
125.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6
150.00	1-0	1-2	1-4	1-6	1-7	1-9	1-10	2-0	2-1	2-2
175.00	1-5	1-7	1-10	2-0	2-2	2-4	2-6	2-8	2-10	2-11
200.00	1-10	2-1	2-4	2-7	2-10	3-1	3-4	3-6	3-9	3-10
225.00	2-4	2-8	3-0	3-4	3-7	3-11	4-2	4-5	4-9	4-10
250.00	2-11	3-3	3-8	4-1	4-5	4-10	5-2	5-6	5-10	6-0

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 38 OF 129	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH809.38
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag									Ruling Span:	300.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-8	1-9	1-10
175.00	1-8	1-9	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6
200.00	2-3	2-4	2-6	2-7	2-8	2-10	2-11	3-0	3-2	3-3
225.00	2-10	3-0	3-1	3-3	3-5	3-7	3-8	3-10	4-0	4-1
250.00	3-5	3-8	3-10	4-0	4-3	4-5	4-7	4-9	4-11	5-1
275.00	4-2	4-5	4-8	4-11	5-1	5-4	5-6	5-9	5-11	6-2
300.00	5-0	5-3	5-7	5-10	6-1	6-4	6-7	6-10	7-1	7-4
325.00	5-10	6-2	6-6	6-10	7-2	7-5	7-9	8-0	8-4	8-7
350.00	6-9	7-2	7-7	7-11	8-3	8-8	9-0	9-4	9-8	9-11
375.00	7-9	8-3	8-8	9-1	9-6	9-11	10-4	10-8	11-1	11-5

Stringing Sag Table Using Final Sag									Ruling Span:	300.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-4	1-5	1-6	1-7	1-7	1-8	1-9	1-10	1-10	1-11
175.00	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7
200.00	2-5	2-6	2-8	2-9	2-10	3-0	3-1	3-2	3-4	3-5
225.00	3-0	3-2	3-4	3-6	3-8	3-9	3-11	4-1	4-2	4-4
250.00	3-9	3-11	4-1	4-4	4-6	4-8	4-10	5-0	5-2	5-4
275.00	4-6	4-9	5-0	5-2	5-5	5-8	5-10	6-1	6-3	6-5
300.00	5-4	5-8	5-11	6-2	6-6	6-9	7-0	7-3	7-5	7-8
325.00	6-3	6-8	6-11	7-3	7-7	7-11	8-2	8-6	8-9	9-0
350.00	7-3	7-8	8-1	8-5	8-10	9-2	9-6	9-10	10-2	10-5
375.00	8-4	8-10	9-3	9-8	10-1	10-6	10-11	11-3	11-8	12-0

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 39 OF 129		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH809.39
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag									Ruling Span: 400.0	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-6	2-7	2-8	2-9	2-9	2-10	2-11	3-0	3-1	3-1
225.00	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11
250.00	3-11	4-0	4-2	4-3	4-4	4-5	4-7	4-8	4-9	4-10
275.00	4-9	4-10	5-0	5-2	5-3	5-5	5-6	5-8	5-9	5-10
300.00	5-8	5-10	6-0	6-1	6-3	6-5	6-7	6-8	6-10	7-0
325.00	6-7	6-10	7-0	7-2	7-4	7-6	7-8	7-10	8-0	8-2
350.00	7-8	7-11	8-1	8-4	8-6	8-9	8-11	9-2	9-4	9-6
375.00	8-10	9-1	9-4	9-7	9-10	10-0	10-3	10-6	10-8	10-11
400.00	10-0	10-4	10-7	10-10	11-2	11-5	11-8	11-11	12-2	12-5
425.00	11-4	11-8	12-0	12-3	12-7	12-11	13-2	13-6	13-9	14-0
450.00	12-8	13-1	13-5	13-9	14-1	14-5	14-9	15-1	15-5	15-9
475.00	14-2	14-7	14-11	15-4	15-9	16-1	16-6	16-10	17-2	17-6
500.00	15-8	16-2	16-7	17-0	17-5	17-10	18-3	18-8	19-1	19-5

Stringing Sag Table Using Final Sag									Ruling Span:	400.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-7	2-8	2-9	2-10	2-11	2-11	3-0	3-1	3-2	3-2
225.00	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1
250.00	4-1	4-2	4-3	4-5	4-6	4-7	4-9	4-10	4-11	5-0
275.00	4-11	5-1	5-2	5-4	5-5	5-7	5-8	5-10	5-11	6-1
300.00	5-10	6-0	6-2	6-4	6-6	6-8	6-9	6-11	7-1	7-2
325.00	6-11	7-1	7-3	7-5	7-7	7-9	8-0	8-2	8-4	8-6
350.00	8-0	8-2	8-5	8-7	8-10	9-0	9-3	9-5	9-7	9-10
375.00	9-2	9-5	9-8	9-11	10-2	10-4	10-7	10-10	11-1	11-3
400.00	10-5	10-8	11-0	11-3	11-6	11-10	12-1	12-4	12-7	12-10
425.00	11-9	12-1	12-5	12-9	13-0	13-4	13-7	13-11	14-2	14-6
450.00	13-2	13-7	13-11	14-3	14-7	14-11	15-3	15-7	15-11	16-3
475.00	14-8	15-1	15-6	15-11	16-3	16-8	17-0	17-5	17-9	18-1
500.00	16-3	16-9	17-2	17-7	18-0	18-5	18-10	19-3	19-8	20-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>40 OF 129</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH809.40
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1000 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.577	2.18	1325	1.93	1500*
20	0	0	0	0.277	0.94	1471	0.82	1684
30	0	0	0	0.277	1.09	1276	0.91	1526
40	0	0	0	0.277	1.26	1098	1.01	1370
50	0	0	0	0.277	1.47	943	1.14	1219
60	0	0	0	0.277	1.7	814	1.29	1076
70	0	0	0	0.277	1.95	710	1.46	946
80	0	0	0	0.277	2.21	628	1.67	831
90	0	0	0	0.277	2.46	563	1.89	733
100	0	0	0	0.277	2.71	512	2.12	653
110	0	0	0	0.277	2.91	477	2.36	587
120	0	0	0	0.277	3.03	458	2.6	534
130	0	0	0	0.277	3.15	440	2.83	490
167	0	0	0	0.277	3.59	386	3.51	395
212	0	0	0	0.277	4.1	338	4.02	345

* Design Condition

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B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 42 OF 129		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH809.42
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1500 LBS										

Span =	500	ft						
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.577	12.47	1451	12.06	1500*
20	0	0	0	0.277	10	867	9.27	935
30	0	0	0	0.277	10.42	832	9.68	896
40	0	0	0	0.277	10.84	800	10.08	860
50	0	0	0	0.277	11.24	772	10.48	827
60	0	0	0	0.277	11.64	745	10.87	798
70	0	0	0	0.277	12.02	722	11.25	771
80	0	0	0	0.277	12.4	700	11.63	746
90	0	0	0	0.277	12.77	680	12	723
100	0	0	0	0.277	13.13	661	12.37	702
110	0	0	0	0.277	13.49	644	12.72	682
120	0	0	0	0.277	13.83	628	13.07	664
130	0	0	0	0.277	14.17	613	13.42	647
167	0	0	0	0.277	15.02	578	14.64	593
212	0	0	0	0.277	15.88	547	15.8	550
Design Condition								

Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 44 OF 129		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH809.44
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 100

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-3	0-4	0-5
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-6	0-7	0-9
125.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-9	0-11	1-1
150.00	0-5	0-5	0-6	0-7	0-8	0-9	0-10	1-1	1-4	1-7
175.00	0-7	0-7	0-8	0-9	0-10	1-0	1-2	1-5	1-9	2-2
200.00	0-9	0-9	0-10	1-0	1-1	1-3	1-6	1-10	2-4	2-10

Stringing Sag Table Using Final Sag

Ruling Span: 100

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-6
100.00	0-2	0-3	0-3	0-4	0-5	0-6	0-8	0-10	0-11	0-11
125.00	0-4	0-4	0-5	0-6	0-8	0-10	1-0	1-3	1-4	1-6
150.00	0-5	0-6	0-7	0-9	0-11	1-2	1-5	1-10	2-0	2-2
175.00	0-7	0-8	0-10	1-0	1-3	1-7	2-0	2-6	2-8	2-11
200.00	0-10	0-11	1-1	1-4	1-7	2-0	2-7	3-3	3-6	3-10

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 45 OF 129	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH809.45
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag									Ruling Span:	200
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-6	0-7
125.00	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-10	0-11
150.00	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-2	1-4
175.00	0-8	0-8	0-9	0-10	1-0	1-1	1-3	1-5	1-8	1-10
200.00	0-10	0-11	1-0	1-2	1-3	1-6	1-8	1-11	2-1	2-4
225.00	1-0	1-2	1-3	1-5	1-8	1-10	2-1	2-5	2-8	3-0
250.00	1-3	1-5	1-7	1-9	2-0	2-3	2-7	2-11	3-4	3-8

Stringing Sag Table Using Final Sag									Ruling Span:	200
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-7	0-8	0-9
125.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	1-0	1-1	1-2
150.00	0-6	0-7	0-9	0-10	0-11	1-1	1-3	1-5	1-6	1-8
175.00	0-9	0-10	1-0	1-1	1-4	1-6	1-8	1-11	2-1	2-3
200.00	0-11	1-1	1-3	1-6	1-8	1-11	2-2	2-6	2-8	2-11
225.00	1-2	1-4	1-7	1-10	2-2	2-6	2-10	3-1	3-5	3-8
250.00	1-6	1-8	2-0	2-4	2-8	3-1	3-5	3-10	4-3	4-7

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>46 OF 129</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH809.46
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 300

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3
175.00	0-9	0-10	0-11	1-1	1-2	1-3	1-4	1-6	1-7	1-8
200.00	1-0	1-2	1-3	1-4	1-6	1-8	1-9	1-11	2-0	2-2
225.00	1-4	1-5	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9
250.00	1-7	1-9	1-11	2-2	2-4	2-7	2-9	3-0	3-2	3-5
275.00	1-11	2-2	2-4	2-7	2-10	3-1	3-4	3-7	3-10	4-1
300.00	2-4	2-6	2-10	3-1	3-4	3-8	4-0	4-3	4-7	4-11
325.00	2-9	3-0	3-3	3-7	3-11	4-4	4-8	5-0	5-5	5-9
350.00	3-2	3-6	3-10	4-2	4-7	5-0	5-5	5-10	6-3	6-8
375.00	3-7	4-0	4-4	4-10	5-3	5-9	6-3	6-8	7-2	7-8

Stringing Sag Table Using Final Sag

Ruling Span: 300

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
175.00	0-11	1-0	1-2	1-3	1-4	1-6	1-7	1-8	1-10	1-11
200.00	1-2	1-4	1-6	1-8	1-9	1-11	2-1	2-2	2-4	2-6
225.00	1-6	1-8	1-11	2-1	2-3	2-5	2-7	2-10	3-0	3-2
250.00	1-10	2-1	2-4	2-7	2-9	3-0	3-3	3-5	3-8	3-10
275.00	2-3	2-6	2-10	3-1	3-4	3-8	3-11	4-2	4-5	4-8
300.00	2-8	3-0	3-4	3-8	4-0	4-4	4-8	5-0	5-3	5-7
325.00	3-2	3-6	3-11	4-4	4-8	5-1	5-6	5-10	6-2	6-6
350.00	3-8	4-1	4-7	5-0	5-5	5-11	6-4	6-9	7-2	7-7
375.00	4-3	4-8	5-3	5-9	6-3	6-9	7-3	7-9	8-3	8-8

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 47 OF 129	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH809.47
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag									Ruling Span:	400
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-3	1-4	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1
225.00	1-7	1-9	1-10	2-0	2-1	2-2	2-4	2-5	2-6	2-8
250.00	2-0	2-2	2-3	2-5	2-7	2-9	2-10	3-0	3-1	3-3
275.00	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-7	3-9	3-11
300.00	2-11	3-1	3-4	3-6	3-8	3-11	4-1	4-4	4-6	4-8
325.00	3-5	3-8	3-10	4-1	4-4	4-7	4-10	5-1	5-3	5-6
350.00	3-11	4-2	4-6	4-9	5-1	5-4	5-7	5-10	6-1	6-5
375.00	4-6	4-10	5-2	5-6	5-10	6-1	6-5	6-9	7-0	7-4
400.00	5-2	5-6	5-10	6-3	6-7	6-11	7-4	7-8	8-0	8-4
425.00	5-9	6-2	6-7	7-0	7-5	7-10	8-3	8-8	9-0	9-5
450.00	6-6	6-11	7-5	7-11	8-4	8-10	9-3	9-8	10-2	10-7
475.00	7-3	7-9	8-3	8-9	9-4	9-10	10-4	10-10	11-3	11-9
500.00	8-0	8-7	9-2	9-9	10-4	10-10	11-5	12-0	12-6	13-0

Stringing Sag Table Using Final Sag									Ruling Span:	400
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-5	1-6	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3
225.00	1-10	1-11	2-1	2-2	2-4	2-5	2-7	2-8	2-9	2-10
250.00	2-3	2-5	2-7	2-9	2-10	3-0	3-2	3-3	3-5	3-6
275.00	2-9	2-11	3-1	3-3	3-6	3-8	3-10	4-0	4-2	4-3
300.00	3-3	3-6	3-8	3-11	4-1	4-4	4-6	4-9	4-11	5-1
325.00	3-10	4-1	4-4	4-7	4-10	5-1	5-4	5-6	5-9	6-0
350.00	4-5	4-9	5-0	5-4	5-7	5-11	6-2	6-5	6-8	6-11
375.00	5-1	5-5	5-9	6-1	6-5	6-9	7-1	7-5	7-8	8-0
400.00	5-9	6-2	6-7	6-11	7-4	7-8	8-1	8-5	8-9	9-1
425.00	6-6	7-0	7-5	7-10	8-3	8-8	9-1	9-6	9-10	10-3
450.00	7-4	7-10	8-4	8-10	9-3	9-9	10-2	10-8	11-1	11-6
475.00	8-2	8-8	9-3	9-10	10-4	10-10	11-4	11-10	12-4	12-9
500.00	9-0	9-8	10-3	10-10	11-5	12-0	12-7	13-1	13-8	14-2

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 48 OF 129		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH809.48
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1500 LBS										

Stringing Sag Table Using Final Sag									Ruling Span:	500
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-6	2-7	2-8	2-10	2-11	3-0	3-1	3-2	3-3	3-4
275.00	3-0	3-2	3-3	3-5	3-6	3-8	3-9	3-10	4-0	4-1
300.00	3-7	3-9	3-11	4-1	4-2	4-4	4-6	4-7	4-9	4-10
325.00	4-3	4-5	4-7	4-9	4-11	5-1	5-3	5-5	5-7	5-8
350.00	4-11	5-1	5-4	5-6	5-8	5-11	6-1	6-3	6-5	6-7
375.00	5-7	5-10	6-1	6-4	6-7	6-9	7-0	7-2	7-5	7-7
400.00	6-5	6-8	6-11	7-2	7-5	7-8	7-11	8-2	8-5	8-8
425.00	7-3	7-6	7-10	8-1	8-5	8-8	8-11	9-3	9-6	9-9
450.00	8-1	8-5	8-9	9-1	9-5	9-9	10-1	10-4	10-8	10-11
475.00	9-0	9-5	9-9	10-2	10-6	10-10	11-2	11-6	11-10	12-2
500.00	10-0	10-5	10-10	11-3	11-8	12-0	12-5	12-9	13-2	13-6
525.00	11-0	11-6	11-11	12-5	12-10	13-3	13-8	14-1	14-6	14-10
550.00	12-1	12-7	13-1	13-7	14-1	14-7	15-0	15-5	15-11	16-4
575.00	13-3	13-9	14-4	14-10	15-5	15-11	16-5	16-11	17-4	17-10
600.00	14-5	15-0	15-7	16-2	16-9	17-4	17-10	18-5	18-11	19-5
625.00	15-8	16-4	16-11	17-7	18-2	18-10	19-5	20-0	20-6	21-1

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>49 OF 129</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH809.49
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1500 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 51 OF 129		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH809.51
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.577	9.58	1887	9.03	2000*
20	0	0	0	0.277	6.29	1377	5.44	1591
30	0	0	0	0.277	6.76	1282	5.81	1490
40	0	0	0	0.277	7.23	1198	6.2	1397
50	0	0	0	0.277	7.7	1125	6.6	1312
60	0	0	0	0.277	8.17	1061	7.02	1234
70	0	0	0	0.277	8.63	1004	7.44	1164
80	0	0	0	0.277	9.08	954	7.87	1101
90	0	0	0	0.277	9.52	910	8.3	1045
100	0	0	0	0.277	9.96	871	8.72	994
110	0	0	0	0.277	10.38	835	9.14	948
120	0	0	0	0.277	10.8	803	9.56	907
130	0	0	0	0.277	11.2	774	9.97	870
167	0	0	0	0.277	12.3	706	11.43	759
212	0	0	0	0.277	13.25	655	13.08	664
* Design Condition								

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>52 OF 129</p> </div>	Indicates Latest Revision		Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH809.52</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING</p> <p>4/0 - 6/1 ACSR/AW TENSION 2000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag									Ruling Span:	100
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5
125.00	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7
150.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-9	0-10
175.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	1-0	1-2
200.00	0-7	0-7	0-8	0-8	0-9	0-10	1-0	1-1	1-3	1-6

Stringing Sag Table Using Final Sag									Ruling Span:	100
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-4	0-4	0-5
100.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-8	0-8
125.00	0-3	0-3	0-4	0-4	0-5	0-6	0-8	0-10	1-0	1-1
150.00	0-4	0-5	0-6	0-6	0-8	0-9	0-11	1-2	1-5	1-6
175.00	0-6	0-7	0-7	0-9	0-10	1-0	1-3	1-8	1-11	2-1
200.00	0-8	0-9	0-10	0-11	1-1	1-4	1-8	2-2	2-6	2-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 53 OF 129		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH809.53
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 200

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4
125.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7
150.00	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10
175.00	0-6	0-6	0-6	0-7	0-8	0-8	0-9	0-11	1-0	1-2
200.00	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-6
225.00	0-9	0-10	0-11	0-11	1-1	1-2	1-4	1-6	1-8	1-11
250.00	0-11	1-0	1-1	1-2	1-4	1-5	1-7	1-10	2-1	2-4

Stringing Sag Table Using Final Sag

Ruling Span: 200

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-5	0-6	0-7
125.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-10	0-11
150.00	0-5	0-5	0-6	0-7	0-8	0-9	0-11	1-0	1-2	1-3
175.00	0-6	0-7	0-8	0-9	0-11	1-0	1-2	1-5	1-7	1-9
200.00	0-8	0-9	0-10	1-0	1-2	1-4	1-7	1-10	2-1	2-4
225.00	0-10	1-0	1-1	1-3	1-6	1-8	2-0	2-3	2-7	2-11
250.00	1-1	1-2	1-4	1-7	1-10	2-1	2-5	2-10	3-3	3-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 54 OF 129	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH809.54
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag									Ruling Span:	300
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10
175.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2
200.00	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-6
225.00	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-8	1-10
250.00	1-0	1-1	1-2	1-4	1-5	1-7	1-9	1-11	2-1	2-4
275.00	1-3	1-4	1-5	1-7	1-9	1-11	2-1	2-4	2-7	2-10
300.00	1-6	1-7	1-9	1-11	2-1	2-3	2-6	2-9	3-0	3-4
325.00	1-9	1-11	2-0	2-3	2-5	2-8	2-11	3-3	3-7	3-11
350.00	2-0	2-2	2-4	2-7	2-10	3-1	3-5	3-9	4-2	4-6
375.00	2-4	2-6	2-8	2-11	3-3	3-7	3-11	4-4	4-9	5-2

Stringing Sag Table Using Final Sag									Ruling Span:	300
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1
175.00	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-4	1-6
200.00	0-9	0-10	1-0	1-1	1-3	1-4	1-6	1-8	1-10	1-11
225.00	1-0	1-1	1-3	1-4	1-6	1-9	1-11	2-1	2-3	2-5
250.00	1-2	1-4	1-6	1-8	1-11	2-1	2-4	2-7	2-10	3-0
275.00	1-5	1-7	1-10	2-0	2-3	2-7	2-10	3-1	3-5	3-8
300.00	1-9	1-11	2-2	2-5	2-9	3-0	3-4	3-8	4-0	4-4
325.00	2-0	2-3	2-6	2-10	3-2	3-7	3-11	4-4	4-9	5-2
350.00	2-4	2-7	2-11	3-4	3-9	4-2	4-7	5-1	5-6	5-11
375.00	2-8	3-0	3-5	3-10	4-3	4-9	5-3	5-9	6-4	6-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>55 OF 129</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH809.55
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 400

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-5	1-6
225.00	0-11	1-0	1-1	1-2	1-4	1-5	1-6	1-7	1-9	1-10
250.00	1-2	1-3	1-4	1-6	1-7	1-9	1-10	2-0	2-2	2-4
275.00	1-5	1-6	1-8	1-9	1-11	2-1	2-3	2-5	2-7	2-9
300.00	1-8	1-10	2-0	2-2	2-4	2-6	2-8	2-11	3-1	3-4
325.00	2-0	2-2	2-4	2-6	2-8	2-11	3-2	3-5	3-8	3-11
350.00	2-4	2-6	2-8	2-11	3-2	3-5	3-8	3-11	4-3	4-6
375.00	2-8	2-10	3-1	3-4	3-7	3-11	4-2	4-6	4-10	5-2
400.00	3-0	3-3	3-6	3-9	4-1	4-5	4-9	5-2	5-6	5-11
425.00	3-5	3-8	3-11	4-3	4-7	5-0	5-5	5-10	6-3	6-8
450.00	3-10	4-1	4-5	4-10	5-2	5-7	6-1	6-6	7-0	7-5
475.00	4-3	4-7	4-11	5-4	5-9	6-3	6-9	7-3	7-9	8-3
500.00	4-8	5-1	5-6	5-11	6-5	6-11	7-6	8-0	8-7	9-2

Stringing Sag Table Using Final Sag

Ruling Span: 400

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-8	1-9
225.00	1-1	1-3	1-4	1-6	1-7	1-9	1-10	2-0	2-1	2-3
250.00	1-5	1-6	1-8	1-10	2-0	2-2	2-3	2-5	2-7	2-9
275.00	1-8	1-10	2-0	2-2	2-5	2-7	2-9	3-0	3-2	3-4
300.00	2-0	2-2	2-5	2-7	2-10	3-1	3-4	3-6	3-9	4-0
325.00	2-4	2-7	2-10	3-1	3-4	3-7	3-10	4-2	4-5	4-8
350.00	2-8	3-0	3-3	3-7	3-10	4-2	4-6	4-10	5-1	5-5
375.00	3-1	3-5	3-9	4-1	4-5	4-10	5-2	5-6	5-10	6-2
400.00	3-6	3-11	4-3	4-8	5-1	5-6	5-10	6-3	6-8	7-1
425.00	4-0	4-5	4-10	5-3	5-8	6-2	6-7	7-1	7-6	7-11
450.00	4-6	4-11	5-5	5-11	6-5	6-11	7-5	7-11	8-5	8-11
475.00	5-0	5-6	6-0	6-7	7-2	7-8	8-3	8-10	9-5	9-11
500.00	5-6	6-1	6-8	7-3	7-11	8-6	9-2	9-10	10-5	11-0

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 56 OF 129	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH809.56
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Final Sag									Ruling Span:	500
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-7	1-8	1-10	1-11	2-0	2-2	2-3	2-5	2-6	2-7
275.00	1-11	2-1	2-2	2-4	2-6	2-7	2-9	2-11	3-0	3-2
300.00	2-3	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-7	3-9
325.00	2-8	2-10	3-1	3-3	3-5	3-8	3-10	4-0	4-2	4-5
350.00	3-1	3-4	3-7	3-9	4-0	4-3	4-5	4-8	4-11	5-1
375.00	3-6	3-10	4-1	4-4	4-7	4-10	5-1	5-4	5-7	5-10
400.00	4-0	4-4	4-8	4-11	5-3	5-6	5-10	6-1	6-4	6-8
425.00	4-7	4-11	5-3	5-7	5-11	6-3	6-7	6-11	7-2	7-6
450.00	5-1	5-6	5-10	6-3	6-7	7-0	7-4	7-9	8-1	8-5
475.00	5-8	6-1	6-6	6-11	7-4	7-9	8-2	8-7	9-0	9-4
500.00	6-4	6-9	7-3	7-8	8-2	8-8	9-1	9-6	10-0	10-5
525.00	6-11	7-5	8-0	8-6	9-0	9-6	10-0	10-6	11-0	11-5
550.00	7-7	8-2	8-9	9-4	9-11	10-5	11-0	11-6	12-1	12-7
575.00	8-4	8-11	9-7	10-2	10-10	11-5	12-0	12-7	13-2	13-9
600.00	9-1	9-9	10-5	11-1	11-9	12-5	13-1	13-9	14-4	14-11
625.00	9-10	10-7	11-4	12-0	12-9	13-6	14-2	14-11	15-7	16-3

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>57 OF 129</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH809.57
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2000 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.577	1.48	1948	1.2	2400*
20	0	0	0	0.277	0.58	2388	0.5	2748
30	0	0	0	0.277	0.64	2161	0.53	2597
40	0	0	0	0.277	0.71	1938	0.57	2442
50	0	0	0	0.277	0.81	1720	0.61	2285
60	0	0	0	0.277	0.92	1511	0.65	2126
70	0	0	0	0.277	1.06	1313	0.71	1964
80	0	0	0	0.277	1.22	1131	0.77	1801
90	0	0	0	0.277	1.43	972	0.85	1638
100	0	0	0	0.277	1.65	837	0.94	1476
110	0	0	0	0.277	1.9	728	1.05	1318
120	0	0	0	0.277	2.01	688	1.19	1166
130	0	0	0	0.277	2.12	654	1.35	1024
167	0	0	0	0.277	2.53	547	2.16	642
212	0	0	0	0.277	3.07	451	2.9	477
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>58 OF 129</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH809.58
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2400 LBS									

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.577	3.16	2054	2.71	2400*
20	0	0	0	0.277	1.39	2242	1.2	2603
30	0	0	0	0.277	1.53	2031	1.27	2454
40	0	0	0	0.277	1.7	1829	1.35	2303
50	0	0	0	0.277	1.9	1638	1.45	2152
60	0	0	0	0.277	2.13	1461	1.56	1999
70	0	0	0	0.277	2.4	1300	1.69	1848
80	0	0	0	0.277	2.69	1159	1.83	1699
90	0	0	0	0.277	3	1038	2.01	1553
100	0	0	0	0.277	3.33	936	2.2	1414
110	0	0	0	0.277	3.67	850	2.43	1283
120	0	0	0	0.277	4	779	2.68	1162
130	0	0	0	0.277	4.21	741	2.96	1054
167	0	0	0	0.277	4.78	652	4.08	763
212	0	0	0	0.277	5.5	568	5.3	589

* Design Condition

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.577	5.4	2142	4.82	2400*
20	0	0	0	0.277	2.7	2055	2.3	2411
30	0	0	0	0.277	2.96	1872	2.44	2269
40	0	0	0	0.277	3.26	1702	2.61	2126
50	0	0	0	0.277	3.58	1546	2.79	1986
60	0	0	0	0.277	3.94	1406	3	1848
70	0	0	0	0.277	4.32	1283	3.23	1714
80	0	0	0	0.277	4.71	1176	3.49	1586
90	0	0	0	0.277	5.12	1083	3.78	1466
100	0	0	0	0.277	5.52	1004	4.09	1354
110	0	0	0	0.277	5.93	935	4.43	1252
120	0	0	0	0.277	6.33	877	4.78	1160
130	0	0	0	0.277	6.72	826	5.14	1078
167	0	0	0	0.277	7.55	735	6.52	850
212	0	0	0	0.277	8.4	660	8.13	683

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 59 OF 129		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH809.59
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2400 LBS											

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.577	8.18	2208	7.53	2400*
20	0	0	0	0.277	4.66	1859	3.95	2191
30	0	0	0	0.277	5.06	1713	4.2	2061
40	0	0	0	0.277	5.48	1580	4.48	1935
50	0	0	0	0.277	5.93	1461	4.78	1813
60	0	0	0	0.277	6.39	1356	5.1	1696
70	0	0	0	0.277	6.86	1264	5.46	1587
80	0	0	0	0.277	7.33	1182	5.83	1485
90	0	0	0	0.277	7.8	1111	6.23	1391
100	0	0	0	0.277	8.26	1049	6.64	1305
110	0	0	0	0.277	8.72	994	7.06	1228
120	0	0	0	0.277	9.17	945	7.48	1158
130	0	0	0	0.277	9.61	902	7.91	1095
167	0	0	0	0.277	10.81	802	9.49	913
212	0	0	0	0.277	11.8	735	11.3	767
* Design Condition								

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>60 OF 129</p> </div>	Indicates Latest Revision		Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH809.60</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING</p> <p>4/0 - 6/1 ACSR/AW TENSION 2400 LBS</p> </div>						

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
100.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-5
150.00	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7
175.00	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9
200.00	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-3	0-4
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-6
125.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-9	0-10
150.00	0-4	0-4	0-5	0-5	0-6	0-7	0-9	0-10	1-1	1-2
175.00	0-5	0-6	0-6	0-7	0-8	0-10	1-0	1-2	1-6	1-8
200.00	0-7	0-7	0-8	0-9	0-11	1-1	1-3	1-7	2-0	2-2

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SHEET 61 OF 129	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH809.61
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2400 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
125.00	0-2	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5
150.00	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7
175.00	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-8	0-9	0-10
200.00	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-1
225.00	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-4
250.00	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-4	1-6	1-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-6
125.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9
150.00	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-10	0-11	1-1
175.00	0-5	0-6	0-7	0-7	0-8	0-10	0-11	1-1	1-3	1-5
200.00	0-7	0-8	0-9	0-10	0-11	1-1	1-3	1-5	1-8	1-11
225.00	0-9	0-10	0-11	1-0	1-2	1-4	1-7	1-10	2-1	2-5
250.00	0-11	1-0	1-1	1-3	1-5	1-8	1-11	2-3	2-7	3-0

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div>SHEET</div> <div>62 OF 129</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH809.62
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2400 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7
175.00	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-10
200.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1
225.00	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-2	1-3	1-4
250.00	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-8
275.00	1-0	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-10	2-1
300.00	1-2	1-3	1-4	1-5	1-7	1-8	1-10	2-0	2-2	2-5
325.00	1-5	1-6	1-7	1-8	1-10	2-0	2-2	2-4	2-7	2-10
350.00	1-8	1-9	1-10	2-0	2-1	2-4	2-6	2-9	3-0	3-4
375.00	1-10	2-0	2-1	2-3	2-5	2-8	2-10	3-2	3-5	3-10

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11
175.00	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-3
200.00	0-7	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-6	1-8
225.00	0-9	0-10	1-0	1-1	1-2	1-4	1-6	1-8	1-10	2-1
250.00	1-0	1-1	1-2	1-4	1-6	1-8	1-10	2-1	2-4	2-7
275.00	1-2	1-3	1-5	1-7	1-10	2-0	2-3	2-6	2-10	3-1
300.00	1-5	1-6	1-8	1-11	2-2	2-5	2-8	3-0	3-4	3-8
325.00	1-8	1-10	2-0	2-3	2-6	2-10	3-2	3-6	3-11	4-4
350.00	1-11	2-1	2-4	2-7	2-11	3-3	3-8	4-1	4-6	5-0
375.00	2-2	2-5	2-8	3-0	3-4	3-9	4-2	4-8	5-2	5-9

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 63 OF 129		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH809.63
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2400 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-7	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1
225.00	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-4	1-5
250.00	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-9
275.00	1-1	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-11	2-1
300.00	1-4	1-4	1-6	1-7	1-8	1-10	2-0	2-2	2-4	2-6
325.00	1-6	1-7	1-9	1-10	2-0	2-2	2-4	2-6	2-8	2-11
350.00	1-9	1-10	2-0	2-2	2-4	2-6	2-8	2-11	3-2	3-5
375.00	2-0	2-2	2-3	2-5	2-8	2-10	3-1	3-4	3-7	3-11
400.00	2-4	2-5	2-7	2-9	3-0	3-3	3-6	3-9	4-1	4-5
425.00	2-7	2-9	2-11	3-2	3-5	3-8	3-11	4-3	4-7	5-0
450.00	2-11	3-1	3-4	3-6	3-10	4-1	4-5	4-9	5-2	5-7
475.00	3-3	3-5	3-8	3-11	4-3	4-7	4-11	5-4	5-9	6-3
500.00	3-7	3-10	4-1	4-4	4-8	5-1	5-6	5-11	6-5	6-11

Stringing Sag Table Using Final Sag							Ruling Span:		400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-6
225.00	0-10	0-11	1-0	1-2	1-3	1-4	1-6	1-7	1-9	1-11
250.00	1-1	1-2	1-3	1-5	1-6	1-8	1-10	2-0	2-2	2-4
275.00	1-3	1-5	1-6	1-8	1-10	2-0	2-3	2-5	2-7	2-10
300.00	1-6	1-8	1-10	2-0	2-3	2-5	2-8	2-11	3-1	3-4
325.00	1-9	1-11	2-2	2-4	2-7	2-10	3-1	3-5	3-8	3-11
350.00	2-1	2-3	2-6	2-9	3-0	3-4	3-7	3-11	4-3	4-6
375.00	2-4	2-7	2-10	3-2	3-6	3-10	4-2	4-6	4-10	5-3
400.00	2-8	3-0	3-3	3-7	3-11	4-4	4-9	5-1	5-6	5-11
425.00	3-1	3-4	3-8	4-1	4-5	4-11	5-4	5-9	6-3	6-8
450.00	3-5	3-9	4-1	4-6	5-0	5-6	6-0	6-6	7-0	7-6
475.00	3-10	4-2	4-7	5-1	5-7	6-1	6-8	7-3	7-9	8-4
500.00	4-3	4-8	5-1	5-7	6-2	6-9	7-4	8-0	8-8	9-3

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>64 OF 129</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									OH809.64
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2400 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.911	4.66	980	4.56	1000*
20	0	0	0	0.277	3.57	388	3.36	413
30	0	0	0	0.277	3.77	367	3.56	389
40	0	0	0	0.277	3.97	350	3.76	369
50	0	0	0	0.277	4.16	334	3.94	352
60	0	0	0	0.277	4.34	320	4.13	336
70	0	0	0	0.277	4.51	308	4.3	322
80	0	0	0	0.277	4.68	297	4.47	310
90	0	0	0	0.277	4.84	287	4.64	299
100	0	0	0	0.277	4.95	280	4.8	289
110	0	0	0	0.277	5.05	275	4.96	280
120	0	0	0	0.277	5.15	270	5.11	272
130	0	0	0	0.277	5.24	265	5.21	266
167	0	0	0	0.277	5.58	249	5.55	250
212	0	0	0	0.277	5.98	232	5.95	234
* Design Condition								

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 66 OF 129		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH809.66
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1000 LBS									

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.911	10.39	991	10.3	1000*
20	0	0	0	0.277	9.32	335	9.12	343
30	0	0	0	0.277	9.51	329	9.31	336
40	0	0	0	0.277	9.7	323	9.5	329
50	0	0	0	0.277	9.88	317	9.68	323
60	0	0	0	0.277	10.06	311	9.86	318
70	0	0	0	0.277	10.24	306	10.03	312
80	0	0	0	0.277	10.41	301	10.2	307
90	0	0	0	0.277	10.58	296	10.37	302
100	0	0	0	0.277	10.72	292	10.54	297
110	0	0	0	0.277	10.83	289	10.71	292
120	0	0	0	0.277	10.93	287	10.87	288
130	0	0	0	0.277	11.04	284	11.01	285
167	0	0	0	0.277	11.42	274	11.39	275
212	0	0	0	0.277	11.88	264	11.84	265

* Design Condition

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.911	18.47	995	18.38	1000*
20	0	0	0	0.277	17.41	321	17.22	324
30	0	0	0	0.277	17.59	317	17.4	321
40	0	0	0	0.277	17.78	314	17.58	318
50	0	0	0	0.277	17.96	311	17.76	314
60	0	0	0	0.277	18.14	308	17.93	311
70	0	0	0	0.277	18.31	305	18.11	308
80	0	0	0	0.277	18.49	302	18.28	306
90	0	0	0	0.277	18.66	299	18.45	303
100	0	0	0	0.277	18.81	297	18.62	300
110	0	0	0	0.277	18.92	295	18.79	297
120	0	0	0	0.277	19.03	294	18.96	295
130	0	0	0	0.277	19.14	292	19.11	293
167	0	0	0	0.277	19.55	286	19.52	287
212	0	0	0	0.277	20.03	279	20	280

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>67 OF 129</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH809.67
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.911	28.95	997	28.85	1000*
20	0	0	0	0.277	27.89	314	27.7	316
30	0	0	0	0.277	28.07	312	27.88	314
40	0	0	0	0.277	28.25	310	28.05	312
50	0	0	0	0.277	28.43	308	28.23	311
60	0	0	0	0.277	28.61	307	28.41	309
70	0	0	0	0.277	28.79	305	28.58	307
80	0	0	0	0.277	28.96	303	28.76	305
90	0	0	0	0.277	29.14	301	28.93	303
100	0	0	0	0.277	29.29	300	29.1	301
110	0	0	0	0.277	29.41	298	29.27	300
120	0	0	0	0.277	29.52	297	29.44	298
130	0	0	0	0.277	29.63	296	29.6	297
167	0	0	0	0.277	30.05	292	30.02	293
212	0	0	0	0.277	30.55	288	30.51	288
* Design Condition								

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>68 OF 129</p> </div>	Indicates Latest Revision	Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH809.68</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>4/0 - 6/1 ACSR/AW TENSION 1000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag									Ruling Span:	100.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10
100.00	0-4	0-5	0-6	0-7	0-9	0-11	1-1	1-2	1-4	1-6
125.00	0-6	0-8	0-9	1-0	1-2	1-5	1-8	1-11	2-1	2-3
150.00	0-9	0-11	1-2	1-5	1-9	2-1	2-5	2-8	3-0	3-4
175.00	1-1	1-3	1-7	1-11	2-4	2-10	3-3	3-8	4-1	4-6
200.00	1-5	1-8	2-0	2-6	3-1	3-8	4-3	4-10	5-4	5-10

Stringing Sag Table Using Final Sag									Ruling Span:	100.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10
100.00	0-5	0-6	0-8	0-10	0-11	1-1	1-3	1-4	1-5	1-6
125.00	0-7	0-9	1-0	1-3	1-6	1-9	1-11	2-1	2-3	2-4
150.00	0-11	1-2	1-5	1-9	2-2	2-6	2-10	3-1	3-3	3-5
175.00	1-3	1-6	1-11	2-5	2-11	3-5	3-10	4-2	4-5	4-7
200.00	1-7	2-0	2-7	3-2	3-10	4-5	5-0	5-5	5-9	6-0

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C						F						
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 69 OF 129		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH809.69
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1000 LBS										

Stringing Sag Table Using Initial Sag									Ruling Span:	200.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3
125.00	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-10	1-10	1-11
150.00	1-11	2-0	2-1	2-3	2-4	2-5	2-6	2-7	2-8	2-9
175.00	2-7	2-9	2-11	3-0	3-2	3-4	3-5	3-7	3-8	3-10
200.00	3-4	3-7	3-9	3-11	4-2	4-4	4-6	4-8	4-10	4-11
225.00	4-3	4-6	4-9	5-0	5-3	5-5	5-8	5-10	6-1	6-3
250.00	5-3	5-7	5-10	6-2	6-5	6-9	7-0	7-3	7-6	7-9

Stringing Sag Table Using Final Sag									Ruling Span:	200.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-3	1-3
125.00	1-5	1-6	1-7	1-7	1-8	1-9	1-10	1-11	1-11	2-0
150.00	2-0	2-1	2-3	2-4	2-5	2-6	2-8	2-9	2-9	2-10
175.00	2-9	2-11	3-0	3-2	3-4	3-5	3-7	3-8	3-10	3-10
200.00	3-7	3-9	4-0	4-2	4-4	4-6	4-8	4-10	4-11	5-1
225.00	4-6	4-9	5-0	5-3	5-6	5-9	5-11	6-2	6-3	6-5
250.00	5-7	5-11	6-2	6-6	6-9	7-1	7-4	7-7	7-9	7-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 70 OF 129		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH809.70
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-3	2-4	2-4	2-5	2-6	2-6	2-7	2-7	2-8	2-8
175.00	3-1	3-2	3-3	3-3	3-4	3-5	3-6	3-6	3-7	3-8
200.00	4-1	4-2	4-3	4-4	4-5	4-5	4-6	4-7	4-8	4-9
225.00	5-2	5-3	5-4	5-5	5-6	5-8	5-9	5-10	5-11	6-0
250.00	6-4	6-6	6-7	6-9	6-10	7-0	7-1	7-2	7-4	7-5
275.00	7-8	7-10	8-0	8-2	8-3	8-5	8-7	8-9	8-10	9-0
300.00	9-1	9-4	9-6	9-8	9-10	10-0	10-2	10-4	10-7	10-9
325.00	10-9	10-11	11-2	11-4	11-7	11-9	12-0	12-2	12-5	12-7
350.00	12-5	12-8	12-11	13-2	13-5	13-8	13-11	14-2	14-4	14-7
375.00	14-3	14-7	14-10	15-2	15-5	15-8	15-11	16-3	16-6	16-9

Stringing Sag Table Using Final Sag

Ruling Span: 300.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-4	2-5	2-5	2-6	2-6	2-7	2-7	2-8	2-8	2-8
175.00	3-2	3-3	3-4	3-4	3-5	3-6	3-6	3-7	3-8	3-8
200.00	4-2	4-3	4-4	4-5	4-6	4-7	4-7	4-8	4-9	4-10
225.00	5-3	5-4	5-5	5-7	5-8	5-9	5-10	5-11	6-0	6-1
250.00	6-6	6-7	6-9	6-10	7-0	7-1	7-3	7-4	7-5	7-6
275.00	7-10	8-0	8-2	8-4	8-5	8-7	8-9	8-11	9-0	9-1
300.00	9-4	9-6	9-8	9-11	10-1	10-3	10-5	10-7	10-9	10-10
325.00	10-11	11-2	11-5	11-7	11-10	12-0	12-3	12-5	12-7	12-9
350.00	12-8	12-11	13-3	13-5	13-8	13-11	14-2	14-5	14-7	14-9
375.00	14-7	14-11	15-2	15-5	15-9	16-0	16-3	16-7	16-9	16-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 71 OF 129	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH809.71
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag									Ruling Span:	400.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-4	4-4	4-5	4-5	4-6	4-6	4-7	4-7	4-8	4-8
225.00	5-5	5-6	5-7	5-7	5-8	5-9	5-9	5-10	5-11	5-11
250.00	6-9	6-9	6-10	6-11	7-0	7-1	7-2	7-2	7-3	7-4
275.00	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9	8-9	8-10
300.00	9-8	9-9	9-11	10-0	10-1	10-2	10-3	10-4	10-6	10-7
325.00	11-4	11-6	11-7	11-9	11-10	11-11	12-1	12-2	12-3	12-5
350.00	13-2	13-4	13-5	13-7	13-9	13-10	14-0	14-1	14-3	14-5
375.00	15-2	15-3	15-5	15-7	15-9	15-11	16-1	16-3	16-4	16-6
400.00	17-3	17-5	17-7	17-9	17-11	18-1	18-3	18-5	18-7	18-10
425.00	19-5	19-8	19-10	20-1	20-3	20-5	20-8	20-10	21-0	21-3
450.00	21-10	22-0	22-3	22-6	22-9	22-11	23-2	23-4	23-7	23-10
475.00	24-4	24-7	24-10	25-1	25-4	25-7	25-10	26-1	26-4	26-6
500.00	26-11	27-3	27-6	27-9	28-1	28-4	28-7	28-11	29-2	29-5

Stringing Sag Table Using Final Sag									Ruling Span:	400.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-4	4-5	4-5	4-6	4-6	4-7	4-7	4-8	4-8	4-9
225.00	5-6	5-7	5-7	5-8	5-9	5-9	5-10	5-11	5-11	6-0
250.00	6-9	6-10	6-11	7-0	7-1	7-2	7-3	7-3	7-4	7-5
275.00	8-3	8-4	8-5	8-6	8-7	8-8	8-9	8-10	8-11	8-11
300.00	9-9	9-11	10-0	10-1	10-2	10-3	10-5	10-6	10-7	10-8
325.00	11-6	11-7	11-9	11-10	12-0	12-1	12-2	12-4	12-5	12-6
350.00	13-4	13-6	13-7	13-9	13-11	14-0	14-2	14-3	14-5	14-6
375.00	15-4	15-6	15-7	15-9	15-11	16-1	16-3	16-5	16-6	16-7
400.00	17-5	17-7	17-9	17-11	18-2	18-4	18-6	18-8	18-10	18-11
425.00	19-8	19-10	20-1	20-3	20-6	20-8	20-11	21-1	21-3	21-4
450.00	22-1	22-3	22-6	22-9	23-0	23-2	23-5	23-8	23-10	24-0
475.00	24-7	24-10	25-1	25-4	25-7	25-10	26-1	26-4	26-7	26-9
500.00	27-3	27-6	27-10	28-1	28-5	28-8	28-11	29-2	29-5	29-7

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C						F						
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 72 OF 129		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH809.72
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1000 LBS										

Stringing Sag Table Using Initial Sag									Ruling Span:	500.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-11	6-11	7-0	7-0	7-1	7-1	7-2	7-3	7-3	7-4
275.00	8-4	8-5	8-6	8-6	8-7	8-7	8-8	8-9	8-9	8-10
300.00	9-11	10-0	10-1	10-2	10-2	10-3	10-4	10-5	10-5	10-6
325.00	11-8	11-9	11-10	11-11	12-0	12-1	12-1	12-2	12-3	12-4
350.00	13-7	13-8	13-9	13-10	13-11	14-0	14-1	14-2	14-3	14-4
375.00	15-7	15-8	15-9	15-10	15-11	16-1	16-2	16-3	16-4	16-5
400.00	17-8	17-10	17-11	18-0	18-2	18-3	18-5	18-6	18-7	18-8
425.00	20-0	20-1	20-3	20-4	20-6	20-8	20-9	20-11	21-0	21-1
450.00	22-5	22-7	22-8	22-10	23-0	23-2	23-3	23-5	23-7	23-8
475.00	25-0	25-2	25-4	25-6	25-8	25-9	25-11	26-1	26-3	26-5
500.00	27-8	27-11	28-1	28-3	28-5	28-7	28-9	28-11	29-1	29-3
525.00	30-7	30-9	30-11	31-2	31-4	31-6	31-9	31-11	32-1	32-3
550.00	33-7	33-9	34-0	34-2	34-5	34-7	34-10	35-0	35-3	35-5
575.00	36-8	36-11	37-2	37-5	37-7	37-10	38-1	38-4	38-7	38-9
600.00	39-11	40-3	40-6	40-9	41-0	41-3	41-6	41-9	42-0	42-3
625.00	43-5	43-8	43-11	44-3	44-6	44-9	45-1	45-4	45-7	45-10

Stringing Sag Table Using Final Sag									Ruling Span:	500.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-11	7-0	7-0	7-1	7-2	7-2	7-3	7-3	7-4	7-4
275.00	8-5	8-6	8-6	8-7	8-8	8-8	8-9	8-9	8-10	8-10
300.00	10-0	10-1	10-2	10-2	10-3	10-4	10-5	10-6	10-6	10-7
325.00	11-9	11-10	11-11	12-0	12-1	12-2	12-2	12-3	12-4	12-5
350.00	13-8	13-9	13-10	13-11	14-0	14-1	14-2	14-3	14-4	14-5
375.00	15-8	15-9	15-10	16-0	16-1	16-2	16-3	16-4	16-5	16-6
400.00	17-10	17-11	18-1	18-2	18-3	18-5	18-6	18-7	18-9	18-9
425.00	20-2	20-3	20-5	20-6	20-8	20-9	20-11	21-0	21-2	21-3
450.00	22-7	22-9	22-10	23-0	23-2	23-4	23-5	23-7	23-8	23-10
475.00	25-2	25-4	25-6	25-8	25-10	26-0	26-2	26-3	26-5	26-6
500.00	27-11	28-1	28-3	28-5	28-7	28-9	29-0	29-2	29-4	29-5
525.00	30-9	31-0	31-2	31-4	31-7	31-9	31-11	32-2	32-4	32-5
550.00	33-9	34-0	34-3	34-5	34-8	34-10	35-1	35-4	35-6	35-7
575.00	36-11	37-2	37-5	37-8	37-11	38-2	38-4	38-7	38-10	38-11
600.00	40-3	40-6	40-9	41-0	41-3	41-6	41-9	42-1	42-3	42-5
625.00	43-8	44-0	44-3	44-6	44-10	45-1	45-4	45-8	45-11	46-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>73 OF 129</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH809.73
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1000 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>74 OF 129</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH809.74</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING</p> <p>4/0 - 6/1 ACSR/AW TENSION 1500 LBS</p> </div>				

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.911	12.31	1486	12.19	1500*
20	0	0	0	0.277	10.3	539	9.91	561
30	0	0	0	0.277	10.59	525	10.2	545
40	0	0	0	0.277	10.88	511	10.48	530
50	0	0	0	0.277	11.16	498	10.76	516
60	0	0	0	0.277	11.43	486	11.03	504
70	0	0	0	0.277	11.7	475	11.3	492
80	0	0	0	0.277	11.96	465	11.56	481
90	0	0	0	0.277	12.22	455	11.82	470
100	0	0	0	0.277	12.47	446	12.07	461
110	0	0	0	0.277	12.72	437	12.32	451
120	0	0	0	0.277	12.93	430	12.57	442
130	0	0	0	0.277	13.08	425	12.81	434
167	0	0	0	0.277	13.63	408	13.58	410
212	0	0	0	0.277	14.28	390	14.23	391
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>75 OF 129</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH809.75
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.911	19.21	1491	19.09	1500*
20	0	0	0	0.277	17.21	505	16.83	517
30	0	0	0	0.277	17.49	497	17.11	508
40	0	0	0	0.277	17.77	490	17.38	500
50	0	0	0	0.277	18.05	482	17.66	493
60	0	0	0	0.277	18.32	475	17.92	485
70	0	0	0	0.277	18.59	468	18.19	478
80	0	0	0	0.277	18.85	462	18.45	472
90	0	0	0	0.277	19.11	456	18.71	465
100	0	0	0	0.277	19.37	450	18.97	459
110	0	0	0	0.277	19.62	444	19.22	453
120	0	0	0	0.277	19.86	439	19.48	447
130	0	0	0	0.277	20.02	435	19.72	442
167	0	0	0	0.277	20.6	423	20.55	424
212	0	0	0	0.277	21.29	409	21.24	410
* Design Condition								

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>76 OF 129</p> </div>	Indicates Latest Revision	Completely Revised	<div style="border: 1px solid black; width: 15px; height: 15px; display: flex; align-items: center; justify-content: center;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH809.76</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>4/0 - 6/1 ACSR/AW TENSION 1500 LBS</p> </div>					

Completely Revised



Information Removed

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 1500 LBS

OH809.76

Stringing Sag Table Using Initial Sag									Ruling Span:	100
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-1	0-1	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6
100.00	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-7	0-8	0-10
125.00	0-4	0-4	0-5	0-5	0-6	0-7	0-9	0-10	1-1	1-4
150.00	0-5	0-6	0-6	0-7	0-9	0-10	1-0	1-3	1-7	1-11
175.00	0-7	0-8	0-9	0-10	1-0	1-2	1-5	1-9	2-1	2-7
200.00	0-9	0-10	1-0	1-1	1-3	1-6	1-10	2-3	2-9	3-4

Stringing Sag Table Using Final Sag									Ruling Span:	100
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-3	0-4	0-5	0-6	0-6	0-7
100.00	0-3	0-3	0-4	0-4	0-5	0-7	0-9	0-11	1-0	1-0
125.00	0-4	0-5	0-6	0-7	0-9	0-11	1-2	1-5	1-6	1-7
150.00	0-6	0-7	0-8	0-10	1-0	1-4	1-8	2-0	2-2	2-4
175.00	0-8	0-9	0-11	1-1	1-5	1-9	2-3	2-9	2-11	3-2
200.00	0-10	1-0	1-2	1-6	1-10	2-4	2-11	3-7	3-10	4-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 77 OF 129		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH809.77
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag									Ruling Span:	200
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-9
125.00	0-6	0-6	0-7	0-8	0-9	0-10	1-0	1-1	1-2	1-3
150.00	0-8	0-9	0-11	1-0	1-2	1-3	1-5	1-6	1-8	1-9
175.00	0-11	1-1	1-2	1-4	1-6	1-9	1-11	2-1	2-3	2-5
200.00	1-3	1-5	1-7	1-9	2-0	2-3	2-6	2-8	2-11	3-2
225.00	1-6	1-9	2-0	2-3	2-6	2-10	3-2	3-5	3-9	4-0
250.00	1-11	2-2	2-5	2-9	3-2	3-6	3-10	4-3	4-7	4-11

Stringing Sag Table Using Final Sag									Ruling Span:	200
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-5	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-10
125.00	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-4	1-4
150.00	0-10	0-11	1-1	1-2	1-4	1-6	1-7	1-9	1-11	2-0
175.00	1-1	1-3	1-5	1-8	1-10	2-0	2-3	2-5	2-7	2-8
200.00	1-5	1-8	1-11	2-2	2-5	2-8	2-11	3-1	3-4	3-6
225.00	1-9	2-1	2-5	2-9	3-0	3-4	3-8	3-11	4-3	4-5
250.00	2-3	2-7	2-11	3-4	3-9	4-2	4-6	4-10	5-3	5-6

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[illegible]

Stringing Sag Table Using Initial Sag									Ruling Span:	300
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-9
175.00	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4
200.00	2-0	2-2	2-3	2-5	2-6	2-8	2-9	2-11	3-0	3-1
225.00	2-7	2-9	2-11	3-1	3-2	3-4	3-6	3-8	3-9	3-11
250.00	3-2	3-4	3-7	3-9	4-0	4-2	4-4	4-6	4-8	4-10
275.00	3-10	4-1	4-4	4-7	4-9	5-0	5-3	5-5	5-8	5-10
300.00	4-7	4-10	5-2	5-5	5-8	6-0	6-3	6-6	6-9	7-0
325.00	5-4	5-8	6-0	6-4	6-8	7-0	7-4	7-7	7-11	8-2
350.00	6-2	6-7	7-0	7-5	7-9	8-2	8-6	8-10	9-2	9-6
375.00	7-1	7-7	8-0	8-6	8-11	9-4	9-9	10-2	10-6	10-11

Stringing Sag Table Using Final Sag									Ruling Span:	300
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-3	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-9	1-10
175.00	1-8	1-9	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6
200.00	2-2	2-4	2-6	2-7	2-9	2-10	2-11	3-1	3-2	3-3
225.00	2-9	3-0	3-1	3-3	3-5	3-7	3-9	3-10	4-0	4-2
250.00	3-5	3-8	3-10	4-1	4-3	4-5	4-7	4-9	4-11	5-1
275.00	4-2	4-5	4-8	4-11	5-2	5-4	5-7	5-9	6-0	6-2
300.00	4-11	5-3	5-7	5-10	6-1	6-5	6-8	6-11	7-2	7-4
325.00	5-10	6-2	6-6	6-10	7-2	7-6	7-9	8-1	8-4	8-8
350.00	6-9	7-2	7-7	7-11	8-4	8-8	9-0	9-5	9-9	10-0
375.00	7-9	8-3	8-8	9-2	9-7	10-0	10-5	10-9	11-2	11-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 79 OF 129		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH809.79
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag									Ruling Span:	400
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-6	2-7	2-7	2-8	2-9	2-10	2-11	2-11	3-0	3-1
225.00	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11
250.00	3-10	4-0	4-1	4-2	4-4	4-5	4-6	4-7	4-9	4-10
275.00	4-8	4-10	4-11	5-1	5-3	5-4	5-6	5-7	5-8	5-10
300.00	5-7	5-9	5-11	6-1	6-2	6-4	6-6	6-8	6-9	6-11
325.00	6-6	6-9	6-11	7-1	7-3	7-5	7-8	7-10	8-0	8-2
350.00	7-7	7-10	8-0	8-3	8-5	8-8	8-10	9-1	9-3	9-5
375.00	8-8	9-0	9-3	9-5	9-8	9-11	10-2	10-5	10-7	10-10
400.00	9-11	10-2	10-6	10-9	11-0	11-4	11-7	11-10	12-1	12-4
425.00	11-2	11-6	11-10	12-2	12-5	12-9	13-1	13-4	13-8	13-11
450.00	12-6	12-11	13-3	13-7	14-0	14-4	14-8	15-0	15-3	15-7
475.00	14-0	14-5	14-9	15-2	15-7	15-11	16-4	16-8	17-0	17-5
500.00	15-6	15-11	16-5	16-10	17-3	17-8	18-1	18-6	18-11	19-3

Stringing Sag Table Using Final Sag									Ruling Span:	400
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-7	2-8	2-9	2-9	2-10	2-11	3-0	3-1	3-1	3-2
225.00	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0
250.00	4-0	4-2	4-3	4-4	4-6	4-7	4-8	4-9	4-10	5-0
275.00	4-10	5-0	5-2	5-3	5-5	5-6	5-8	5-9	5-11	6-0
300.00	5-9	5-11	6-1	6-3	6-5	6-7	6-9	6-10	7-0	7-2
325.00	6-10	7-0	7-2	7-4	7-7	7-9	7-11	8-1	8-3	8-5
350.00	7-11	8-1	8-4	8-6	8-9	8-11	9-2	9-4	9-7	9-9
375.00	9-1	9-4	9-7	9-10	10-1	10-3	10-6	10-9	11-0	11-2
400.00	10-4	10-7	10-11	11-2	11-5	11-8	12-0	12-3	12-6	12-9
425.00	11-8	12-0	12-3	12-7	12-11	13-3	13-6	13-10	14-1	14-4
450.00	13-0	13-5	13-9	14-1	14-6	14-10	15-2	15-6	15-10	16-1
475.00	14-6	14-11	15-4	15-9	16-2	16-6	16-11	17-3	17-7	17-11
500.00	16-1	16-7	17-0	17-5	17-10	18-3	18-8	19-1	19-6	19-11

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>80 OF 129</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH809.80
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1500 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.911	2.48	1840	2.28	2000*
20	0	0	0	0.277	0.79	1746	0.7	1991
30	0	0	0	0.277	0.9	1535	0.76	1831
40	0	0	0	0.277	1.04	1335	0.83	1671
50	0	0	0	0.277	1.2	1152	0.92	1511
60	0	0	0	0.277	1.4	989	1.02	1354
70	0	0	0	0.277	1.63	852	1.15	1203
80	0	0	0	0.277	1.87	740	1.31	1061
90	0	0	0	0.277	2.13	651	1.49	931
100	0	0	0	0.277	2.38	582	1.69	818
110	0	0	0	0.277	2.6	533	1.92	722
120	0	0	0	0.277	2.72	510	2.15	643
130	0	0	0	0.277	2.84	488	2.39	579
167	0	0	0	0.277	3.29	422	3.19	435
212	0	0	0	0.277	3.81	364	3.72	373

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>82 OF 129</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH809.82
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2000 LBS									

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>83 OF 129</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH809.83
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.911	14.39	1985	14.28	2000*
20	0	0	0	0.277	11.18	776	10.52	824
30	0	0	0	0.277	11.58	749	10.91	795
40	0	0	0	0.277	11.96	725	11.29	768
50	0	0	0	0.277	12.34	703	11.67	743
60	0	0	0	0.277	12.71	683	12.04	721
70	0	0	0	0.277	13.08	664	12.4	700
80	0	0	0	0.277	13.43	646	12.75	680
90	0	0	0	0.277	13.78	630	13.1	662
100	0	0	0	0.277	14.12	615	13.45	646
110	0	0	0	0.277	14.46	601	13.78	630
120	0	0	0	0.277	14.78	588	14.11	615
130	0	0	0	0.277	15.11	575	14.44	602
167	0	0	0	0.277	15.88	547	15.6	557
212	0	0	0	0.277	16.71	520	16.64	523
* Design Condition								

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>84 OF 129</p> </div>	Indicates Latest Revision		Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH809.84</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>4/0 - 6/1 ACSR/AW TENSION 2000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag

Ruling Span: 100

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5
125.00	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-6	0-8
150.00	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-8	0-9	0-11
175.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-11	1-1	1-3
200.00	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2	1-5	1-8

Stringing Sag Table Using Final Sag

Ruling Span: 100

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-4	0-4	0-5
100.00	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-7	0-8	0-9
125.00	0-3	0-3	0-4	0-5	0-5	0-7	0-8	0-11	1-0	1-2
150.00	0-4	0-5	0-6	0-7	0-8	0-10	1-0	1-3	1-6	1-7
175.00	0-6	0-7	0-8	0-9	0-11	1-1	1-4	1-9	2-0	2-3
200.00	0-8	0-9	0-10	1-0	1-2	1-5	1-10	2-3	2-8	2-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 85 OF 129	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH809.85
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag	Ruling Span:	200
---------------------------------------	--------------	-----

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6
125.00	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1
175.00	0-6	0-7	0-8	0-8	0-9	0-11	1-0	1-2	1-4	1-6
200.00	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-6	1-8	1-11
225.00	0-11	0-11	1-1	1-2	1-4	1-5	1-8	1-11	2-2	2-5
250.00	1-1	1-2	1-4	1-5	1-7	1-10	2-0	2-4	2-8	3-0

Stringing Sag Table Using Final Sag Ruling Span: 200

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-6	0-7	0-8
125.00	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0
150.00	0-5	0-6	0-7	0-8	0-9	0-11	1-1	1-2	1-4	1-6
175.00	0-7	0-8	0-10	0-11	1-1	1-3	1-5	1-8	1-10	2-0
200.00	0-10	0-11	1-0	1-2	1-5	1-8	1-10	2-2	2-5	2-7
225.00	1-0	1-2	1-4	1-6	1-9	2-1	2-4	2-8	3-0	3-4
250.00	1-3	1-5	1-7	1-11	2-2	2-7	2-11	3-4	3-9	4-1

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 86 OF 129		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH809.86
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2000 LBS											

Stringing Sag Table Using Initial Sag

Ruling Span: 300

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-6	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2
175.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-7
200.00	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-10	1-11	2-1
225.00	1-3	1-4	1-6	1-7	1-9	1-11	2-1	2-3	2-6	2-8
250.00	1-6	1-8	1-10	2-0	2-2	2-5	2-7	2-10	3-0	3-3
275.00	1-10	2-0	2-2	2-5	2-8	2-11	3-2	3-5	3-8	3-11
300.00	2-2	2-4	2-7	2-11	3-2	3-6	3-9	4-1	4-5	4-8
325.00	2-6	2-9	3-1	3-5	3-9	4-1	4-5	4-9	5-2	5-6
350.00	2-11	3-3	3-7	3-11	4-4	4-9	5-1	5-7	6-0	6-4
375.00	3-5	3-9	4-1	4-6	4-11	5-5	5-11	6-4	6-10	7-4

Stringing Sag Table Using Final Sag

Ruling Span: 300

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
175.00	0-10	1-0	1-1	1-2	1-4	1-5	1-6	1-8	1-9	1-10
200.00	1-1	1-3	1-5	1-7	1-8	1-10	2-0	2-2	2-3	2-5
225.00	1-5	1-7	1-9	1-11	2-2	2-4	2-6	2-8	2-10	3-0
250.00	1-9	2-0	2-2	2-5	2-8	2-11	3-1	3-4	3-6	3-9
275.00	2-1	2-5	2-8	2-11	3-2	3-6	3-9	4-0	4-3	4-6
300.00	2-6	2-10	3-2	3-6	3-10	4-2	4-6	4-10	5-1	5-5
325.00	3-0	3-4	3-8	4-1	4-6	4-10	5-3	5-7	6-0	6-4
350.00	3-5	3-10	4-3	4-9	5-2	5-8	6-1	6-6	6-11	7-4
375.00	3-11	4-5	4-11	5-5	6-0	6-6	7-0	7-6	8-0	8-5

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 87 OF 129	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH809.87
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 400

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-4	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2
225.00	1-9	1-10	2-0	2-1	2-2	2-4	2-5	2-6	2-8	2-9
250.00	2-2	2-3	2-5	2-7	2-9	2-10	3-0	3-1	3-3	3-5
275.00	2-7	2-9	2-11	3-1	3-3	3-5	3-7	3-9	3-11	4-1
300.00	3-1	3-3	3-6	3-8	3-11	4-1	4-4	4-6	4-8	4-10
325.00	3-7	3-10	4-1	4-4	4-7	4-10	5-1	5-3	5-6	5-8
350.00	4-2	4-6	4-9	5-0	5-4	5-7	5-10	6-1	6-4	6-7
375.00	4-10	5-2	5-6	5-9	6-1	6-5	6-9	7-0	7-4	7-7
400.00	5-6	5-10	6-3	6-7	6-11	7-4	7-8	8-0	8-4	8-8
425.00	6-2	6-7	7-0	7-5	7-10	8-3	8-8	9-0	9-5	9-9
450.00	6-11	7-5	7-10	8-4	8-9	9-3	9-8	10-1	10-6	10-11
475.00	7-9	8-3	8-9	9-3	9-9	10-3	10-9	11-3	11-9	12-2
500.00	8-7	9-2	9-9	10-3	10-10	11-5	11-11	12-6	13-0	13-6

Stringing Sag Table Using Final Sag

Ruling Span: 400

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-6	1-7	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4
225.00	1-11	2-1	2-2	2-4	2-5	2-6	2-8	2-9	2-10	2-11
250.00	2-5	2-6	2-8	2-10	3-0	3-1	3-3	3-5	3-6	3-8
275.00	2-11	3-1	3-3	3-5	3-7	3-9	3-11	4-1	4-3	4-5
300.00	3-5	3-8	3-10	4-1	4-4	4-6	4-8	4-11	5-1	5-3
325.00	4-0	4-3	4-7	4-10	5-0	5-3	5-6	5-9	5-11	6-2
350.00	4-8	5-0	5-3	5-7	5-10	6-1	6-5	6-8	6-11	7-2
375.00	5-4	5-9	6-1	6-5	6-9	7-0	7-4	7-8	7-11	8-2
400.00	6-1	6-6	6-11	7-3	7-8	8-0	8-4	8-8	9-0	9-4
425.00	6-11	7-4	7-9	8-2	8-7	9-0	9-5	9-10	10-2	10-6
450.00	7-9	8-3	8-9	9-2	9-8	10-1	10-7	11-0	11-5	11-10
475.00	8-7	9-2	9-9	10-3	10-9	11-3	11-9	12-3	12-9	13-2
500.00	9-6	10-2	10-9	11-4	11-11	12-6	13-0	13-7	14-1	14-7

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 88 OF 129	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH809.88
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2000 LBS					

Span = 100 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.911	0.59	1918	0.47	2400*
20	0	0	0	0.277	0.14	2436	0.12	2783
30	0	0	0	0.277	0.16	2201	0.13	2631
40	0	0	0	0.277	0.18	1967	0.14	2474
50	0	0	0	0.277	0.2	1734	0.15	2314
60	0	0	0	0.277	0.23	1504	0.16	2150
70	0	0	0	0.277	0.27	1278	0.17	1983
80	0	0	0	0.277	0.33	1060	0.19	1813
90	0	0	0	0.277	0.4	855	0.21	1639
100	0	0	0	0.277	0.51	675	0.24	1463
110	0	0	0	0.277	0.55	626	0.27	1286
120	0	0	0	0.277	0.6	580	0.31	1108
130	0	0	0	0.277	0.65	537	0.37	934
167	0	0	0	0.277	0.87	399	0.78	447
212	0	0	0	0.277	1.2	289	1.08	319

* Design Condition

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.911	2.15	2118	1.9	2400*
20	0	0	0	0.277	0.63	2210	0.55	2533
30	0	0	0	0.277	0.7	1986	0.58	2378
40	0	0	0	0.277	0.78	1767	0.62	2221
50	0	0	0	0.277	0.89	1555	0.67	2062
60	0	0	0	0.277	1.02	1354	0.73	1900
70	0	0	0	0.277	1.19	1169	0.8	1738
80	0	0	0	0.277	1.38	1004	0.88	1576
90	0	0	0	0.277	1.6	864	0.98	1416
100	0	0	0	0.277	1.85	750	1.1	1260
110	0	0	0	0.277	2.09	661	1.25	1112
120	0	0	0	0.277	2.2	629	1.42	976
130	0	0	0	0.277	2.31	599	1.62	856
167	0	0	0	0.277	2.75	505	2.48	558
212	0	0	0	0.277	3.29	422	3.14	441

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>90 OF 129</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH809.90
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2400 LBS									

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.911	4.53	2265	4.27	2400*
20	0	0	0	0.277	1.7	1831	1.47	2127
30	0	0	0	0.277	1.9	1640	1.58	1977
40	0	0	0	0.277	2.13	1462	1.71	1827
50	0	0	0	0.277	2.39	1302	1.86	1680
60	0	0	0	0.277	2.69	1161	2.03	1537
70	0	0	0	0.277	3	1039	2.23	1400
80	0	0	0	0.277	3.33	937	2.45	1271
90	0	0	0	0.277	3.66	851	2.7	1153
100	0	0	0	0.277	4	780	2.98	1046
110	0	0	0	0.277	4.33	721	3.27	953
120	0	0	0	0.277	4.65	671	3.58	872
130	0	0	0	0.277	4.85	643	3.89	803
167	0	0	0	0.277	5.44	574	5.01	622
212	0	0	0	0.277	6.14	509	6	521

* Design Condition

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.911	7.79	2342	7.6	2400*
20	0	0	0	0.277	3.95	1403	3.38	1640
30	0	0	0	0.277	4.33	1281	3.65	1519
40	0	0	0	0.277	4.72	1174	3.95	1405
50	0	0	0	0.277	5.13	1081	4.27	1299
60	0	0	0	0.277	5.53	1002	4.6	1204
70	0	0	0	0.277	5.94	934	4.96	1118
80	0	0	0	0.277	6.34	875	5.32	1041
90	0	0	0	0.277	6.73	825	5.69	974
100	0	0	0	0.277	7.11	780	6.06	914
110	0	0	0	0.277	7.48	742	6.43	862
120	0	0	0	0.277	7.84	707	6.8	816
130	0	0	0	0.277	8.2	677	7.16	775
167	0	0	0	0.277	8.97	619	8.43	658
212	0	0	0	0.277	9.8	567	9.67	574

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>91 OF 129</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH809.91</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2400 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
100.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
125.00	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5
150.00	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7
175.00	0-5	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10
200.00	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-1

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-3	0-4
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7
125.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-8	0-10	0-10
150.00	0-4	0-4	0-5	0-5	0-6	0-7	0-9	0-11	1-2	1-3
175.00	0-5	0-6	0-6	0-7	0-8	0-10	1-0	1-3	1-7	1-8
200.00	0-7	0-8	0-8	0-10	0-11	1-1	1-4	1-7	2-1	2-3

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 93 OF 129	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH809.93
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2400 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span:	200.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4
125.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6
150.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-7	0-8
175.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11
200.00	0-7	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-3
225.00	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-3	1-5	1-7
250.00	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-9	1-11

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-6
125.00	0-3	0-3	0-4	0-4	0-5	0-6	0-6	0-8	0-9	0-10
150.00	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-11	1-0	1-2
175.00	0-6	0-6	0-7	0-8	0-9	0-11	1-1	1-3	1-5	1-7
200.00	0-8	0-8	0-9	0-11	1-0	1-2	1-5	1-7	1-10	2-1
225.00	0-10	0-11	1-0	1-2	1-4	1-6	1-9	2-0	2-4	2-8
250.00	1-0	1-1	1-3	1-5	1-7	1-10	2-2	2-6	2-11	3-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 94 OF 129		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH809.94
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING										
		4/0 - 6/1 ACSR/AW TENSION 2400 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10
175.00	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1
200.00	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5
225.00	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-10
250.00	1-0	1-1	1-2	1-3	1-5	1-7	1-8	1-11	2-1	2-3
275.00	1-3	1-4	1-5	1-7	1-8	1-10	2-1	2-3	2-6	2-9
300.00	1-6	1-7	1-8	1-10	2-0	2-3	2-5	2-8	3-0	3-3
325.00	1-9	1-10	2-0	2-2	2-5	2-7	2-11	3-2	3-6	3-10
350.00	2-0	2-2	2-4	2-6	2-9	3-0	3-4	3-8	4-1	4-5
375.00	2-3	2-6	2-8	2-11	3-2	3-6	3-10	4-3	4-8	5-1

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1
175.00	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-4	1-6
200.00	0-9	0-10	0-11	1-1	1-2	1-4	1-6	1-8	1-9	1-11
225.00	0-11	1-1	1-2	1-4	1-6	1-8	1-10	2-1	2-3	2-5
250.00	1-2	1-4	1-6	1-8	1-10	2-1	2-4	2-7	2-9	3-0
275.00	1-5	1-7	1-9	2-0	2-3	2-6	2-10	3-1	3-4	3-8
300.00	1-8	1-11	2-2	2-5	2-8	3-0	3-4	3-8	4-0	4-4
325.00	2-0	2-3	2-6	2-10	3-2	3-6	3-11	4-4	4-8	5-1
350.00	2-4	2-7	2-11	3-3	3-8	4-1	4-6	5-0	5-5	5-11
375.00	2-8	3-0	3-4	3-9	4-2	4-8	5-2	5-9	6-3	6-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 95 OF 129		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH809.95
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2400 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	1.504	7.59	996	7.56	1000*
20	0	0	0	0.277	6.88	202	6.76	206
30	0	0	0	0.277	6.99	199	6.89	202
40	0	0	0	0.277	7.11	196	7	199
50	0	0	0	0.277	7.22	193	7.12	196
60	0	0	0	0.277	7.33	190	7.23	193
70	0	0	0	0.277	7.44	187	7.33	190
80	0	0	0	0.277	7.53	185	7.44	187
90	0	0	0	0.277	7.6	183	7.55	185
100	0	0	0	0.277	7.67	182	7.65	182
110	0	0	0	0.277	7.74	180	7.72	180
120	0	0	0	0.277	7.81	178	7.79	179
130	0	0	0	0.277	7.88	177	7.86	177
167	0	0	0	0.277	8.12	172	8.1	172
212	0	0	0	0.277	8.41	166	8.39	166
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>98 OF 129</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH809.98
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1000 LBS									

* Design Condition

* Design Condition

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B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 99 OF 129		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH809.99
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1000 LBS											

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	1.504	48.81	999	48.78	1000*
20	0	0	0	0.277	48.12	187	48.01	187
30	0	0	0	0.277	48.23	186	48.13	187
40	0	0	0	0.277	48.34	186	48.24	186
50	0	0	0	0.277	48.44	185	48.35	186
60	0	0	0	0.277	48.55	185	48.45	185
70	0	0	0	0.277	48.66	185	48.56	185
80	0	0	0	0.277	48.75	184	48.66	185
90	0	0	0	0.277	48.83	184	48.77	184
100	0	0	0	0.277	48.9	184	48.87	184
110	0	0	0	0.277	48.97	184	48.95	184
120	0	0	0	0.277	49.04	183	49.02	183
130	0	0	0	0.277	49.11	183	49.09	183
167	0	0	0	0.277	49.37	182	49.35	182
212	0	0	0	0.277	49.69	181	49.67	181
* Design Condition								

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 100 OF 129		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH809.100
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-1	1-2
100.00	1-0	1-2	1-3	1-5	1-6	1-8	1-9	1-10	2-0	2-0
125.00	1-7	1-10	2-0	2-3	2-5	2-7	2-9	2-11	3-1	3-2
150.00	2-3	2-7	2-11	3-2	3-6	3-9	4-0	4-2	4-5	4-7
175.00	3-1	3-6	3-11	4-4	4-9	5-1	5-5	5-9	6-0	6-3
200.00	4-0	4-7	5-2	5-8	6-2	6-8	7-1	7-6	7-10	8-1

Stringing Sag Table Using Final Sag

Ruling Span: 100.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-1	1-1	1-2
100.00	1-2	1-3	1-5	1-6	1-8	1-9	1-10	1-11	2-0	2-1
125.00	1-9	2-0	2-2	2-5	2-7	2-9	2-11	3-0	3-1	3-2
150.00	2-7	2-10	3-2	3-5	3-9	4-0	4-2	4-4	4-6	4-7
175.00	3-6	3-11	4-4	4-8	5-1	5-5	5-8	5-11	6-1	6-3
200.00	4-6	5-1	5-8	6-2	6-8	7-1	7-5	7-8	7-11	8-2

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 101 OF 129	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH809.101
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag									Ruling Span:	200.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-8	1-9	1-9	1-9	1-10	1-10	1-10	1-11	1-11	1-11
125.00	2-8	2-8	2-9	2-9	2-10	2-10	2-11	2-11	3-0	3-0
150.00	3-10	3-10	3-11	4-0	4-1	4-1	4-2	4-3	4-4	4-4
175.00	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-11
200.00	6-9	6-11	7-0	7-1	7-3	7-4	7-5	7-7	7-8	7-9
225.00	8-7	8-9	8-10	9-0	9-2	9-3	9-5	9-7	9-8	9-9
250.00	10-7	10-9	10-11	11-2	11-4	11-6	11-8	11-10	12-0	12-1

Stringing Sag Table Using Final Sag									Ruling Span:	200.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-9	1-9	1-9	1-10	1-10	1-10	1-11	1-11	1-11	1-11
125.00	2-8	2-9	2-9	2-10	2-10	2-11	2-11	3-0	3-0	3-0
150.00	3-10	3-11	4-0	4-1	4-1	4-2	4-3	4-3	4-4	4-4
175.00	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-10	5-11
200.00	6-11	7-0	7-1	7-3	7-4	7-5	7-6	7-7	7-8	7-9
225.00	8-8	8-10	9-0	9-2	9-3	9-5	9-6	9-8	9-9	9-10
250.00	10-9	10-11	11-1	11-3	11-6	11-8	11-9	11-11	12-0	12-1

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 102 OF 129		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH809.102
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-1	4-1	4-2	4-2	4-2	4-3	4-3	4-3	4-4	4-4
175.00	5-7	5-7	5-8	5-8	5-8	5-9	5-9	5-10	5-10	5-10
200.00	7-3	7-4	7-4	7-5	7-5	7-6	7-7	7-7	7-8	7-8
225.00	9-2	9-3	9-4	9-4	9-5	9-6	9-7	9-7	9-8	9-9
250.00	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11	11-11	12-0
275.00	13-9	13-10	13-11	14-0	14-1	14-2	14-3	14-5	14-6	14-6
300.00	16-4	16-6	16-7	16-8	16-10	16-11	17-0	17-1	17-3	17-4
325.00	19-2	19-4	19-6	19-7	19-9	19-10	20-0	20-1	20-3	20-4
350.00	22-3	22-6	22-7	22-9	22-11	23-1	23-2	23-4	23-6	23-7
375.00	25-7	25-10	26-0	26-2	26-4	26-6	26-8	26-10	27-0	27-1

Stringing Sag Table Using Final Sag

Ruling Span: 300.0

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-1	4-2	4-2	4-2	4-3	4-3	4-3	4-3	4-4	4-4
175.00	5-7	5-8	5-8	5-8	5-9	5-9	5-10	5-10	5-10	5-11
200.00	7-4	7-4	7-5	7-5	7-6	7-7	7-7	7-7	7-8	7-8
225.00	9-3	9-4	9-4	9-5	9-6	9-7	9-7	9-8	9-8	9-9
250.00	11-5	11-6	11-7	11-8	11-9	11-10	11-10	11-11	12-0	12-0
275.00	13-10	13-11	14-0	14-1	14-2	14-3	14-4	14-5	14-6	14-7
300.00	16-6	16-7	16-8	16-10	16-11	17-0	17-1	17-2	17-3	17-4
325.00	19-4	19-6	19-7	19-9	19-10	20-0	20-1	20-2	20-3	20-4
350.00	22-5	22-7	22-9	22-11	23-1	23-2	23-4	23-5	23-6	23-7
375.00	25-9	26-0	26-2	26-4	26-6	26-8	26-10	26-11	27-0	27-2

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 103 OF 129	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH809.103
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag									Ruling Span:	400.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-6	7-6	7-6	7-7	7-7	7-7	7-7	7-8	7-8	7-8
225.00	9-5	9-6	9-6	9-7	9-7	9-7	9-8	9-8	9-9	9-9
250.00	11-8	11-9	11-9	11-10	11-10	11-11	11-11	12-0	12-0	12-0
275.00	14-2	14-2	14-3	14-3	14-4	14-5	14-5	14-6	14-6	14-7
300.00	16-10	16-11	16-11	17-0	17-1	17-2	17-2	17-3	17-4	17-4
325.00	19-9	19-10	19-11	20-0	20-1	20-1	20-2	20-3	20-4	20-5
350.00	22-11	23-0	23-1	23-2	23-3	23-4	23-5	23-6	23-7	23-8
375.00	26-4	26-6	26-7	26-8	26-9	26-10	26-11	27-0	27-1	27-2
400.00	30-0	30-2	30-3	30-4	30-5	30-7	30-8	30-9	30-11	30-11
425.00	33-11	34-1	34-2	34-4	34-5	34-6	34-8	34-9	34-11	35-0
450.00	38-1	38-3	38-4	38-6	38-7	38-9	38-11	39-0	39-2	39-3
475.00	42-5	42-7	42-9	42-11	43-1	43-3	43-5	43-6	43-8	43-9
500.00	47-1	47-3	47-5	47-7	47-9	47-11	48-1	48-4	48-6	48-7

Stringing Sag Table Using Final Sag									Ruling Span:	400.0
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-6	7-6	7-6	7-7	7-7	7-7	7-8	7-8	7-8	7-8
225.00	9-6	9-6	9-7	9-7	9-7	9-8	9-8	9-8	9-9	9-9
250.00	11-9	11-9	11-10	11-10	11-11	11-11	11-11	12-0	12-0	12-0
275.00	14-2	14-3	14-3	14-4	14-5	14-5	14-6	14-6	14-7	14-7
300.00	16-11	16-11	17-0	17-1	17-2	17-2	17-3	17-3	17-4	17-4
325.00	19-10	19-11	20-0	20-1	20-1	20-2	20-3	20-4	20-4	20-5
350.00	23-0	23-1	23-2	23-3	23-4	23-5	23-6	23-7	23-7	23-8
375.00	26-5	26-7	26-8	26-9	26-10	26-11	27-0	27-1	27-2	27-2
400.00	30-1	30-3	30-4	30-5	30-7	30-8	30-9	30-10	30-11	31-0
425.00	34-0	34-2	34-3	34-5	34-6	34-8	34-9	34-10	34-11	35-0
450.00	38-2	38-4	38-6	38-7	38-9	38-11	39-0	39-1	39-2	39-3
475.00	42-7	42-9	42-11	43-1	43-3	43-5	43-6	43-7	43-9	43-10
500.00	47-3	47-5	47-7	47-9	47-11	48-1	48-3	48-5	48-6	48-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>104 OF 129</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH809.104</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING</p> <p>4/0 - 6/1 ACSR/AW TENSION 1000 LBS</p> </div>					

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	1.504	5.03	1497	5.02	1500*
20	0	0	0	0.277	3.59	386	3.38	410
30	0	0	0	0.277	3.79	366	3.58	387
40	0	0	0	0.277	3.98	348	3.77	368
50	0	0	0	0.277	4.17	333	3.96	350
60	0	0	0	0.277	4.35	319	4.14	335
70	0	0	0	0.277	4.52	307	4.32	321
80	0	0	0	0.277	4.69	296	4.49	309
90	0	0	0	0.277	4.86	286	4.65	298
100	0	0	0	0.277	4.97	280	4.81	288
110	0	0	0	0.277	5.06	274	4.97	279
120	0	0	0	0.277	5.16	269	5.12	271
130	0	0	0	0.277	5.26	264	5.22	266
167	0	0	0	0.277	5.6	248	5.57	250
212	0	0	0	0.277	5.99	232	5.96	233

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>106 OF 129</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH809.106</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING</p> <p>4/0 - 6/1 ACSR/AW TENSION 1500 LBS</p> </div>					

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	1.504	20.25	1500	20.25	1500*
20	0	0	0	0.277	18.91	296	18.73	298
30	0	0	0	0.277	19.08	293	18.9	296
40	0	0	0	0.277	19.25	291	19.07	293
50	0	0	0	0.277	19.41	288	19.23	291
60	0	0	0	0.277	19.58	286	19.4	288
70	0	0	0	0.277	19.74	283	19.56	286
80	0	0	0	0.277	19.91	281	19.72	284
90	0	0	0	0.277	20.07	279	19.88	281
100	0	0	0	0.277	20.19	277	20.04	279
110	0	0	0	0.277	20.29	276	20.2	277
120	0	0	0	0.277	20.39	274	20.36	275
130	0	0	0	0.277	20.5	273	20.47	273
167	0	0	0	0.277	20.88	268	20.85	269
212	0	0	0	0.277	21.33	263	21.31	263
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>107 OF 129</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH809.107</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING</p> <p>4/0 - 6/1 ACSR/AW TENSION 1500 LBS</p> </div>					

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	1.504	31.83	1500	31.83	1500*
20	0	0	0	0.277	30.5	288	30.33	290
30	0	0	0	0.277	30.67	287	30.49	288
40	0	0	0	0.277	30.83	285	30.65	287
50	0	0	0	0.277	31	284	30.82	285
60	0	0	0	0.277	31.16	282	30.98	284
70	0	0	0	0.277	31.32	281	31.14	282
80	0	0	0	0.277	31.49	279	31.3	281
90	0	0	0	0.277	31.65	278	31.46	280
100	0	0	0	0.277	31.76	277	31.62	278
110	0	0	0	0.277	31.87	276	31.78	277
120	0	0	0	0.277	31.98	275	31.94	275
130	0	0	0	0.277	32.08	274	32.05	274
167	0	0	0	0.277	32.47	271	32.44	271
212	0	0	0	0.277	32.93	267	32.91	268

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>108 OF 129</p> </div>	Indicates Latest Revision	Completely Revised	<div style="border: 1px solid black; padding: 2px;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH809.108</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING</p> <p>4/0 - 6/1 ACSR/AW TENSION 1500 LBS</p> </div>					

Stringing Sag Table Using Initial Sag									Ruling Span:	100
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8
100.00	0-3	0-4	0-4	0-5	0-6	0-7	0-9	0-11	1-1	1-2
125.00	0-5	0-6	0-6	0-8	0-9	1-0	1-2	1-5	1-8	1-11
150.00	0-7	0-8	0-9	0-11	1-2	1-5	1-9	2-1	2-5	2-9
175.00	0-9	0-11	1-1	1-3	1-7	1-11	2-4	2-10	3-3	3-8
200.00	1-0	1-2	1-5	1-8	2-0	2-6	3-1	3-8	4-3	4-10

Stringing Sag Table Using Final Sag									Ruling Span:	100
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-2	0-2	0-3	0-4	0-5	0-6	0-7	0-8	0-8	0-9
100.00	0-3	0-4	0-5	0-7	0-8	0-10	1-0	1-2	1-3	1-4
125.00	0-5	0-6	0-8	0-10	1-1	1-4	1-7	1-9	1-11	2-0
150.00	0-8	0-9	1-0	1-3	1-7	1-11	2-3	2-7	2-9	2-11
175.00	0-10	1-1	1-4	1-8	2-2	2-7	3-1	3-6	3-9	4-0
200.00	1-2	1-5	1-9	2-2	2-9	3-5	4-1	4-7	4-11	5-2

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[illegible]

Stringing Sag Table Using Initial Sag

Ruling Span: 200

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3
125.00	1-4	1-5	1-6	1-7	1-7	1-8	1-9	1-10	1-11	1-11
150.00	1-11	2-0	2-1	2-3	2-4	2-5	2-6	2-7	2-8	2-10
175.00	2-7	2-9	2-11	3-0	3-2	3-4	3-5	3-7	3-8	3-10
200.00	3-5	3-7	3-9	4-0	4-2	4-4	4-6	4-8	4-10	5-0
225.00	4-3	4-6	4-9	5-0	5-3	5-6	5-8	5-11	6-1	6-4
250.00	5-3	5-7	5-11	6-2	6-6	6-9	7-0	7-3	7-6	7-9

Stringing Sag Table Using Final Sag

Ruling Span: 200

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	0-11	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-3
125.00	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-11	1-11	2-0
150.00	2-0	2-2	2-3	2-4	2-5	2-7	2-8	2-9	2-10	2-10
175.00	2-9	2-11	3-1	3-2	3-4	3-6	3-7	3-9	3-10	3-11
200.00	3-7	3-9	4-0	4-2	4-4	4-6	4-8	4-10	5-0	5-1
225.00	4-7	4-10	5-1	5-3	5-6	5-9	5-11	6-2	6-3	6-5
250.00	5-7	5-11	6-3	6-6	6-10	7-1	7-4	7-7	7-9	7-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 110 OF 129	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH809.110
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag									Ruling Span:	300
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-5	2-6	2-6	2-7	2-7	2-8	2-8	2-9	2-9	2-10
175.00	3-4	3-5	3-5	3-6	3-7	3-7	3-8	3-9	3-9	3-10
200.00	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-10	4-11	5-0
225.00	5-6	5-7	5-8	5-10	5-11	6-0	6-1	6-2	6-3	6-4
250.00	6-10	6-11	7-0	7-2	7-3	7-5	7-6	7-7	7-9	7-10
275.00	8-3	8-4	8-6	8-8	8-10	8-11	9-1	9-3	9-4	9-6
300.00	9-9	10-0	10-2	10-4	10-6	10-8	10-10	11-0	11-2	11-3
325.00	11-6	11-8	11-11	12-1	12-4	12-6	12-8	12-11	13-1	13-3
350.00	13-4	13-7	13-10	14-0	14-3	14-6	14-9	14-11	15-2	15-4
375.00	15-4	15-7	15-10	16-1	16-5	16-8	16-11	17-2	17-5	17-8

Stringing Sag Table Using Final Sag									Ruling Span:	300
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-6	2-6	2-7	2-7	2-8	2-8	2-9	2-9	2-10	2-10
175.00	3-5	3-5	3-6	3-7	3-8	3-8	3-9	3-10	3-10	3-10
200.00	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-11	5-0	5-1
225.00	5-7	5-8	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5
250.00	6-11	7-1	7-2	7-3	7-5	7-6	7-8	7-9	7-10	7-11
275.00	8-5	8-6	8-8	8-10	9-0	9-1	9-3	9-5	9-6	9-7
300.00	10-0	10-2	10-4	10-6	10-8	10-10	11-0	11-2	11-3	11-5
325.00	11-8	11-11	12-1	12-4	12-6	12-9	12-11	13-1	13-3	13-4
350.00	13-7	13-10	14-1	14-4	14-6	14-9	15-0	15-2	15-4	15-6
375.00	15-7	15-10	16-2	16-5	16-8	16-11	17-2	17-5	17-8	17-10

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 111 OF 129		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH809.111	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag									Ruling Span:	400
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-8	4-9	4-9	4-10	4-10	4-11	4-11	4-11	5-0	5-0
225.00	5-11	6-0	6-0	6-1	6-1	6-2	6-3	6-3	6-4	6-5
250.00	7-4	7-4	7-5	7-6	7-7	7-8	7-8	7-9	7-10	7-10
275.00	8-10	8-11	9-0	9-1	9-2	9-3	9-4	9-5	9-5	9-6
300.00	10-6	10-7	10-9	10-10	10-11	11-0	11-1	11-2	11-3	11-4
325.00	12-4	12-6	12-7	12-8	12-9	12-11	13-0	13-1	13-3	13-4
350.00	14-4	14-6	14-7	14-9	14-10	15-0	15-1	15-3	15-4	15-5
375.00	16-5	16-7	16-9	16-11	17-0	17-2	17-4	17-6	17-7	17-9
400.00	18-9	18-11	19-1	19-3	19-5	19-7	19-9	19-11	20-0	20-2
425.00	21-2	21-4	21-6	21-9	21-11	22-1	22-3	22-5	22-8	22-10
450.00	23-9	23-11	24-2	24-4	24-7	24-9	25-0	25-2	25-5	25-7
475.00	26-5	26-8	26-11	27-2	27-5	27-7	27-10	28-1	28-4	28-6
500.00	29-4	29-7	29-10	30-1	30-4	30-7	30-10	31-1	31-4	31-7

Stringing Sag Table Using Final Sag									Ruling Span:	400
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-9	4-9	4-10	4-10	4-11	4-11	5-0	5-0	5-0	5-1
225.00	6-0	6-0	6-1	6-2	6-2	6-3	6-3	6-4	6-4	6-5
250.00	7-4	7-5	7-6	7-7	7-8	7-8	7-9	7-10	7-10	7-11
275.00	8-11	9-0	9-1	9-2	9-3	9-4	9-5	9-6	9-6	9-7
300.00	10-7	10-9	10-10	10-11	11-0	11-1	11-2	11-3	11-4	11-5
325.00	12-6	12-7	12-8	12-10	12-11	13-0	13-2	13-3	13-4	13-5
350.00	14-6	14-7	14-9	14-10	15-0	15-1	15-3	15-4	15-5	15-6
375.00	16-7	16-9	16-11	17-1	17-2	17-4	17-6	17-8	17-9	17-10
400.00	18-11	19-1	19-3	19-5	19-7	19-9	19-11	20-1	20-2	20-3
425.00	21-4	21-7	21-9	21-11	22-1	22-4	22-6	22-8	22-10	22-11
450.00	23-11	24-2	24-5	24-7	24-10	25-0	25-3	25-5	25-7	25-8
475.00	26-8	26-11	27-2	27-5	27-8	27-11	28-1	28-4	28-6	28-8
500.00	29-7	29-10	30-1	30-5	30-8	30-11	31-2	31-5	31-7	31-9

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 112 OF 129		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH809.112
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 1500 LBS									

Span = 100 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	1.504	1.04	1807	0.94	2000*
20	0	0	0	0.277	0.18	1905	0.16	2129
30	0	0	0	0.277	0.21	1673	0.18	1964
40	0	0	0	0.277	0.24	1444	0.19	1796
50	0	0	0	0.277	0.28	1219	0.21	1625
60	0	0	0	0.277	0.34	1004	0.24	1452
70	0	0	0	0.277	0.43	805	0.27	1277
80	0	0	0	0.277	0.55	633	0.31	1102
90	0	0	0	0.277	0.69	501	0.37	931
100	0	0	0	0.277	0.77	447	0.45	768
110	0	0	0	0.277	0.84	413	0.56	623
120	0	0	0	0.277	0.91	382	0.69	504
130	0	0	0	0.277	0.98	354	0.83	415
167	0	0	0	0.277	1.26	275	1.19	292
212	0	0	0	0.277	1.59	218	1.52	228

* Design Condition

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	1.504	3.77	1996	3.76	2000*
20	0	0	0	0.277	1.47	942	1.26	1099
30	0	0	0	0.277	1.7	813	1.43	968
40	0	0	0	0.277	1.95	709	1.63	851
50	0	0	0	0.277	2.21	627	1.84	751
60	0	0	0	0.277	2.46	563	2.07	668
70	0	0	0	0.277	2.71	512	2.31	600
80	0	0	0	0.277	2.95	470	2.55	544
90	0	0	0	0.277	3.17	437	2.78	499
100	0	0	0	0.277	3.39	409	3	462
110	0	0	0	0.277	3.55	391	3.22	431
120	0	0	0	0.277	3.66	379	3.43	405
130	0	0	0	0.277	3.78	367	3.63	382
167	0	0	0	0.277	4.19	331	4.14	335
212	0	0	0	0.277	4.67	297	4.62	301

* Design Condition

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 114 OF 129		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH809.114
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2000 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 115 OF 129		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH809.115
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2000 LBS											

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.504	23.71	2000	23.71	2000*
20	0	0	0	0.277	21.51	405	21.14	412
30	0	0	0	0.277	21.75	401	21.37	408
40	0	0	0	0.277	21.98	397	21.6	404
50	0	0	0	0.277	22.2	393	21.82	400
60	0	0	0	0.277	22.43	389	22.05	396
70	0	0	0	0.277	22.65	385	22.27	392
80	0	0	0	0.277	22.87	382	22.49	388
90	0	0	0	0.277	23.09	378	22.71	384
100	0	0	0	0.277	23.3	375	22.92	381
110	0	0	0	0.277	23.44	373	23.14	377
120	0	0	0	0.277	23.58	370	23.35	374
130	0	0	0	0.277	23.71	368	23.56	371
167	0	0	0	0.277	24.22	361	24.17	362
212	0	0	0	0.277	24.82	352	24.77	353
* Design Condition								

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>116 OF 129</p> </div>	Indicates Latest Revision	Completely Revised	<div style="border: 1px solid black; padding: 2px;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH809.116</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING</p> <p>4/0 - 6/1 ACSR/AW TENSION 2000 LBS</p> </div>					

Completely Revised

 New Page

Information Removed

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
4/0 - 6/1 ACSR/AW TENSION 2000 LBS

OH809.116

Ruling Span: 100

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-3	0-4
100.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-7
125.00	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7	0-8	0-10
150.00	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-10	1-0	1-3
175.00	0-6	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-5	1-8
200.00	0-8	0-8	0-9	0-10	0-11	1-1	1-3	1-6	1-10	2-3

Ruling Span: 100

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-1	0-1	0-2	0-2	0-2	0-3	0-4	0-5	0-5	0-6
100.00	0-2	0-2	0-3	0-3	0-4	0-5	0-7	0-8	0-9	0-10
125.00	0-3	0-4	0-4	0-5	0-6	0-8	0-10	1-1	1-3	1-4
150.00	0-5	0-6	0-6	0-8	0-9	1-0	1-3	1-7	1-9	1-11
175.00	0-7	0-8	0-9	0-10	1-1	1-4	1-8	2-1	2-4	2-7
200.00	0-9	0-10	1-0	1-2	1-5	1-9	2-2	2-9	3-1	3-4

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 117 OF 129		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH809.117
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 200

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10
125.00	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3
150.00	0-9	0-10	0-11	1-0	1-2	1-4	1-5	1-7	1-8	1-10
175.00	1-0	1-1	1-3	1-5	1-7	1-9	1-11	2-2	2-4	2-6
200.00	1-3	1-5	1-8	1-10	2-1	2-4	2-7	2-9	3-0	3-3
225.00	1-7	1-10	2-1	2-4	2-8	2-11	3-3	3-6	3-10	4-1
250.00	2-0	2-3	2-7	2-11	3-3	3-7	4-0	4-4	4-8	5-0

Stringing Sag Table Using Final Sag

Ruling Span: 200

Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-10	0-11
125.00	0-7	0-8	0-9	0-10	1-0	1-1	1-2	1-3	1-4	1-5
150.00	0-10	1-0	1-1	1-3	1-5	1-6	1-8	1-9	1-11	2-0
175.00	1-2	1-4	1-6	1-8	1-11	2-1	2-3	2-5	2-7	2-9
200.00	1-6	1-8	1-11	2-3	2-6	2-9	2-11	3-2	3-5	3-7
225.00	1-10	2-2	2-6	2-10	3-1	3-5	3-9	4-0	4-4	4-6
250.00	2-4	2-8	3-1	3-5	3-10	4-3	4-7	5-0	5-4	5-7

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 118 OF 129	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH809.118
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag									Ruling Span:	300
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-10	1-11	2-0
175.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-7	2-8
200.00	2-7	2-8	2-10	2-11	3-0	3-1	3-3	3-4	3-5	3-6
225.00	3-3	3-5	3-6	3-8	3-10	3-11	4-1	4-2	4-4	4-5
250.00	4-0	4-2	4-4	4-6	4-9	4-10	5-0	5-2	5-4	5-6
275.00	4-10	5-1	5-3	5-6	5-8	5-11	6-1	6-3	6-6	6-8
300.00	5-9	6-0	6-3	6-6	6-9	7-0	7-3	7-6	7-8	7-11
325.00	6-9	7-1	7-5	7-8	8-0	8-3	8-6	8-9	9-1	9-4
350.00	7-10	8-2	8-7	8-11	9-3	9-7	9-11	10-2	10-6	10-9
375.00	9-0	9-5	9-10	10-3	10-7	11-0	11-4	11-8	12-1	12-5

Stringing Sag Table Using Final Sag									Ruling Span:	300
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-6	1-7	1-8	1-9	1-10	1-10	1-11	2-0	2-0	2-1
175.00	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10
200.00	2-9	2-10	3-0	3-1	3-2	3-4	3-5	3-6	3-7	3-8
225.00	3-6	3-7	3-9	3-11	4-0	4-2	4-4	4-5	4-7	4-8
250.00	4-3	4-6	4-8	4-10	5-0	5-2	5-4	5-6	5-7	5-9
275.00	5-2	5-5	5-7	5-10	6-0	6-3	6-5	6-7	6-10	6-11
300.00	6-2	6-5	6-8	6-11	7-2	7-5	7-8	7-10	8-1	8-3
325.00	7-3	7-7	7-10	8-2	8-5	8-8	9-0	9-3	9-6	9-8
350.00	8-5	8-9	9-1	9-5	9-9	10-1	10-5	10-9	11-0	11-3
375.00	9-8	10-1	10-5	10-10	11-3	11-7	11-11	12-4	12-8	12-10

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 119 OF 129	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH809.119
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag									Ruling Span:	400
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-1	3-2	3-3	3-4	3-4	3-5	3-6	3-6	3-7	3-8
225.00	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-6	4-7
250.00	4-11	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
275.00	5-11	6-0	6-2	6-3	6-4	6-6	6-7	6-8	6-9	6-10
300.00	7-0	7-2	7-4	7-5	7-7	7-8	7-10	7-11	8-1	8-2
325.00	8-3	8-5	8-7	8-9	8-10	9-0	9-2	9-4	9-6	9-7
350.00	9-7	9-9	9-11	10-1	10-4	10-6	10-8	10-10	11-0	11-2
375.00	11-0	11-2	11-5	11-7	11-10	12-0	12-3	12-5	12-7	12-9
400.00	12-6	12-9	13-0	13-3	13-5	13-8	13-11	14-1	14-4	14-7
425.00	14-1	14-5	14-8	14-11	15-2	15-5	15-8	15-11	16-2	16-5
450.00	15-10	16-2	16-5	16-9	17-0	17-4	17-7	17-11	18-2	18-5
475.00	17-8	18-0	18-4	18-8	19-0	19-4	19-7	19-11	20-3	20-6
500.00	19-7	19-11	20-4	20-8	21-0	21-5	21-9	22-1	22-5	22-9

Stringing Sag Table Using Final Sag									Ruling Span:	400
Temp F >	20	30	40	50	60	70	80	90	100	110
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-3	3-3	3-4	3-5	3-5	3-6	3-7	3-7	3-8	3-9
225.00	4-1	4-2	4-3	4-4	4-4	4-5	4-6	4-7	4-8	4-8
250.00	5-0	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10
275.00	6-1	6-2	6-4	6-5	6-6	6-8	6-9	6-10	6-11	7-0
300.00	7-3	7-5	7-6	7-8	7-9	7-11	8-0	8-2	8-3	8-4
325.00	8-6	8-8	8-10	9-0	9-2	9-3	9-5	9-7	9-9	9-10
350.00	9-10	10-1	10-3	10-5	10-7	10-9	10-11	11-1	11-3	11-4
375.00	11-4	11-6	11-9	11-11	12-2	12-4	12-7	12-9	12-11	13-1
400.00	12-11	13-2	13-4	13-7	13-10	14-1	14-3	14-6	14-9	14-10
425.00	14-7	14-10	15-1	15-4	15-7	15-11	16-2	16-5	16-7	16-9
450.00	16-4	16-8	16-11	17-3	17-6	17-10	18-1	18-4	18-8	18-10
475.00	18-2	18-6	18-10	19-2	19-6	19-10	20-2	20-6	20-9	21-0
500.00	20-2	20-6	20-11	21-3	21-8	22-0	22-4	22-8	23-0	23-3

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>120 OF 129</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH809.120
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2000 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	1.504	3.2	2350	3.14	2400*
20	0	0	0	0.277	0.83	1661	0.73	1896
30	0	0	0	0.277	0.95	1454	0.8	1736
40	0	0	0	0.277	1.1	1261	0.88	1576
50	0	0	0	0.277	1.28	1085	0.98	1418
60	0	0	0	0.277	1.49	932	1.1	1265
70	0	0	0	0.277	1.72	805	1.24	1118
80	0	0	0	0.277	1.97	702	1.41	983
90	0	0	0	0.277	2.23	622	1.61	863
100	0	0	0	0.277	2.48	559	1.82	760
110	0	0	0	0.277	2.69	514	2.05	674
120	0	0	0	0.277	2.81	492	2.29	604
130	0	0	0	0.277	2.94	472	2.53	548
167	0	0	0	0.277	3.38	410	3.29	421
212	0	0	0	0.277	3.9	355	3.81	364

* Design Condition

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C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 122 OF 129		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH809.122
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2400 LBS											

* Design Condition

* Design Condition

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<div style="text-align: center;"> <p>SHEET</p> <p>123 OF 129</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH809.123</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING</p> <p>4/0 - 6/1 ACSR/AW TENSION 2400 LBS</p> </div>				


Span = 500 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	1.504	19.7	2400	19.7	2400*
20	0	0	0	0.277	16.65	522	16.02	542
30	0	0	0	0.277	16.94	513	16.32	533
40	0	0	0	0.277	17.23	505	16.6	524
50	0	0	0	0.277	17.51	497	16.89	515
60	0	0	0	0.277	17.79	489	17.17	507
70	0	0	0	0.277	18.06	482	17.44	499
80	0	0	0	0.277	18.34	475	17.71	491
90	0	0	0	0.277	18.6	468	17.98	484
100	0	0	0	0.277	18.87	461	18.25	477
110	0	0	0	0.277	19.07	457	18.51	470
120	0	0	0	0.277	19.23	453	18.77	464
130	0	0	0	0.277	19.4	449	19.03	458
167	0	0	0	0.277	19.99	436	19.91	438
212	0	0	0	0.277	20.7	421	20.62	423

* Design Condition

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	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING</p> <p>4/0 - 6/1 ACSR/AW TENSION 2400 LBS</p> </div>					

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4
125.00	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6
150.00	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8
175.00	0-5	0-5	0-6	0-6	0-6	0-7	0-8	0-9	0-10	0-11
200.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-1	1-3

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-4	0-4
100.00	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-6	0-7	0-7
125.00	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-9	0-11	0-11
150.00	0-4	0-5	0-5	0-6	0-7	0-8	0-10	1-0	1-3	1-4
175.00	0-6	0-6	0-7	0-8	0-9	0-11	1-1	1-5	1-9	1-10
200.00	0-7	0-8	0-9	0-10	1-0	1-2	1-6	1-10	2-3	2-5

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SHEET 125 OF 129	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH809.125
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2400 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6
125.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-10
150.00	0-5	0-5	0-6	0-7	0-7	0-8	0-10	0-11	1-0	1-2
175.00	0-7	0-7	0-8	0-9	0-10	0-11	1-1	1-3	1-5	1-7
200.00	0-9	0-10	0-11	1-0	1-1	1-3	1-5	1-7	1-10	2-1
225.00	0-11	1-0	1-1	1-3	1-5	1-7	1-9	2-0	2-4	2-7
250.00	1-2	1-3	1-4	1-6	1-9	1-11	2-2	2-6	2-10	3-3

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-7	0-8
125.00	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10	1-0	1-1
150.00	0-6	0-6	0-7	0-9	0-10	1-0	1-1	1-3	1-5	1-6
175.00	0-8	0-9	0-10	1-0	1-2	1-4	1-6	1-8	1-11	2-1
200.00	0-10	0-11	1-1	1-3	1-6	1-9	2-0	2-3	2-6	2-8
225.00	1-1	1-2	1-5	1-7	1-11	2-2	2-6	2-10	3-2	3-5
250.00	1-4	1-6	1-9	2-0	2-4	2-8	3-1	3-6	3-11	4-3

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SHEET 126 OF 129	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH809.126
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2400 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-6
175.00	1-1	1-2	1-4	1-5	1-6	1-7	1-9	1-10	1-11	2-0
200.00	1-5	1-7	1-9	1-10	2-0	2-1	2-3	2-4	2-6	2-7
225.00	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4
250.00	2-3	2-6	2-8	2-11	3-1	3-4	3-6	3-8	3-11	4-1
275.00	2-9	3-0	3-3	3-6	3-9	4-0	4-3	4-6	4-9	4-11
300.00	3-3	3-7	3-10	4-2	4-6	4-9	5-1	5-4	5-7	5-11
325.00	3-10	4-2	4-6	4-11	5-3	5-7	5-11	6-3	6-7	6-11
350.00	4-5	4-10	5-3	5-8	6-1	6-6	6-11	7-3	7-8	8-0
375.00	5-1	5-6	6-0	6-6	7-0	7-5	7-11	8-4	8-9	9-2

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7
175.00	1-4	1-5	1-6	1-8	1-9	1-10	1-11	2-0	2-1	2-3
200.00	1-8	1-10	2-0	2-2	2-3	2-5	2-6	2-8	2-9	2-11
225.00	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8
250.00	2-8	2-11	3-1	3-4	3-7	3-9	3-11	4-2	4-4	4-6
275.00	3-3	3-6	3-9	4-0	4-3	4-6	4-9	5-0	5-3	5-5
300.00	3-10	4-2	4-6	4-10	5-1	5-5	5-8	6-0	6-3	6-6
325.00	4-6	4-11	5-3	5-8	6-0	6-4	6-8	7-0	7-4	7-7
350.00	5-2	5-8	6-1	6-6	6-11	7-4	7-9	8-2	8-6	8-10
375.00	6-0	6-6	7-0	7-6	8-0	8-5	8-11	9-4	9-9	10-2

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SHEET 127 OF 129	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH809.127
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2400 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-9	2-10
225.00	2-9	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7
250.00	3-5	3-7	3-8	3-10	3-11	4-0	4-2	4-3	4-4	4-5
275.00	4-2	4-4	4-5	4-7	4-9	4-10	5-0	5-2	5-3	5-5
300.00	4-11	5-1	5-4	5-6	5-8	5-9	5-11	6-1	6-3	6-5
325.00	5-10	6-0	6-3	6-5	6-7	6-10	7-0	7-2	7-4	7-6
350.00	6-9	7-0	7-2	7-5	7-8	7-11	8-1	8-4	8-6	8-9
375.00	7-9	8-0	8-3	8-6	8-10	9-1	9-4	9-6	9-9	10-0
400.00	8-9	9-1	9-5	9-9	10-0	10-4	10-7	10-10	11-2	11-5
425.00	9-11	10-3	10-8	11-0	11-4	11-7	11-11	12-3	12-7	12-10
450.00	11-2	11-6	11-11	12-4	12-8	13-0	13-5	13-9	14-1	14-5
475.00	12-5	12-10	13-3	13-8	14-1	14-6	14-11	15-4	15-8	16-1
500.00	13-9	14-3	14-9	15-2	15-8	16-1	16-6	17-0	17-5	17-10

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-10	2-11	3-0
225.00	3-0	3-1	3-2	3-3	3-4	3-5	3-7	3-8	3-9	3-9
250.00	3-8	3-10	3-11	4-1	4-2	4-3	4-5	4-6	4-7	4-8
275.00	4-6	4-7	4-9	4-11	5-0	5-2	5-4	5-5	5-7	5-8
300.00	5-4	5-6	5-8	5-10	6-0	6-2	6-4	6-5	6-7	6-9
325.00	6-3	6-5	6-8	6-10	7-0	7-3	7-5	7-7	7-9	7-11
350.00	7-3	7-6	7-8	7-11	8-2	8-4	8-7	8-9	9-0	9-2
375.00	8-4	8-7	8-10	9-1	9-4	9-7	9-10	10-1	10-4	10-6
400.00	9-5	9-9	10-1	10-4	10-8	10-11	11-3	11-6	11-9	12-0
425.00	10-8	11-0	11-4	11-8	12-0	12-4	12-8	13-0	13-3	13-6
450.00	11-11	12-4	12-9	13-1	13-6	13-10	14-2	14-6	14-11	15-2
475.00	13-4	13-9	14-2	14-7	15-0	15-5	15-10	16-2	16-7	16-11
500.00	14-9	15-3	15-9	16-2	16-8	17-1	17-6	17-11	18-4	18-9

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	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING 4/0 - 6/1 ACSR/AW TENSION 2400 LBS						

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

1000 LB TENSION	810.3
1500 LB TENSION	810.11
2000 LB TENSION	810.19
2500 LB TENSION	810.27
3000 LB TENSION	810.35

1000 LB TENSION -----	810.43
1500 LB TENSION -----	810.51
2000 LB TENSION -----	810.59
2500 LB TENSION -----	810.67
3000 LB TENSION -----	810.75

1000 LB TENSION -----	810.83
1500 LB TENSION -----	810.88
2000 LB TENSION -----	810.96
2500 LB TENSION -----	810.104
3000 LB TENSION -----	810.112

1000 LB TENSION -----	810.120
1500 LB TENSION -----	810.128
2000 LB TENSION -----	810.136
2500 LB TENSION -----	810.144
3000 LB TENSION -----	810.152

1000 LB TENSION -----	810.160
1500 LB TENSION -----	810.168
2000 LB TENSION -----	810.176
2500 LB TENSION -----	810.184
3000 LB TENSION -----	810.192

1000 LB TENSION -----	810.200
1500 LB TENSION -----	810.208
2000 LB TENSION -----	810.216
2500 LB TENSION -----	810.224
3000 LB TENSION -----	810.232

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	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	336.4 - 26/7 ACSR/AW TABLE OF CONTENTS					

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

1000 LB TENSION	810.240
1500 LB TENSION	810.248
2000 LB TENSION	810.256
2500 LB TENSION	810.264
3000 LB TENSION	810.272

1000 LB TENSION -----	810.280
1500 LB TENSION -----	810.288
2000 LB TENSION -----	810.296
2500 LB TENSION -----	810.304
3000 LB TENSION -----	810.312

1000 LB TENSION -----	810.320
1500 LB TENSION -----	810.328
2000 LB TENSION -----	810.336
2500 LB TENSION -----	810.344
3000 LB TENSION -----	810.352

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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336.4 - 26/7 ACSR/AW TABLE OF CONTENTS

OH810.2

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.651	3.35	974	3.26	1000*
25	0	0	0	0.44	3.16	698	3.03	727
30	0	0	0	0.44	3.26	675	3.14	702
40	0	0	0	0.44	3.48	634	3.34	659
50	0	0	0	0.44	3.68	599	3.54	622
60	0	0	0	0.44	3.88	569	3.73	590
70	0	0	0	0.44	4.06	542	3.92	562
80	0	0	0	0.44	4.25	519	4.1	537
90	0	0	0	0.44	4.42	499	4.27	516
100	0	0	0	0.44	4.54	486	4.44	496
110	0	0	0	0.44	4.64	475	4.61	478
120	0	0	0	0.44	4.75	465	4.75	465
130	0	0	0	0.44	4.85	455	4.85	455
167	0	0	0	0.44	5.21	424	5.21	424
212	0	0	0	0.44	5.62	393	5.62	393
* Design Condition								

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	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 1000 LBS</p> </div>					

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.651	13.21	990	13.08	1000*
25	0	0	0	0.44	13	680	12.83	689
30	0	0	0	0.44	13.12	674	12.94	683
40	0	0	0	0.44	13.36	662	13.17	671
50	0	0	0	0.44	13.59	651	13.4	660
60	0	0	0	0.44	13.82	640	13.62	649
70	0	0	0	0.44	14.04	630	13.85	639
80	0	0	0	0.44	14.27	620	14.06	629
90	0	0	0	0.44	14.49	611	14.28	619
100	0	0	0	0.44	14.7	602	14.49	610
110	0	0	0	0.44	14.86	596	14.7	602
120	0	0	0	0.44	15	590	14.91	594
130	0	0	0	0.44	15.13	585	15.11	586
167	0	0	0	0.44	15.63	567	15.63	567
212	0	0	0	0.44	16.21	546	16.21	546

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 4 OF 359		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH810.4
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.651	20.63	993	20.49	1000*
25	0	0	0	0.44	20.41	678	20.23	684
30	0	0	0	0.44	20.53	674	20.35	680
40	0	0	0	0.44	20.77	667	20.58	673
50	0	0	0	0.44	21.01	659	20.81	665
60	0	0	0	0.44	21.25	652	21.04	658
70	0	0	0	0.44	21.48	645	21.27	651
80	0	0	0	0.44	21.71	638	21.49	644
90	0	0	0	0.44	21.94	632	21.72	638
100	0	0	0	0.44	22.16	625	21.94	632
110	0	0	0	0.44	22.35	620	22.16	625
120	0	0	0	0.44	22.49	616	22.38	619
130	0	0	0	0.44	22.64	612	22.59	614
167	0	0	0	0.44	23.17	599	23.17	599
212	0	0	0	0.44	23.79	583	23.79	583

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>5 OF 359</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH810.5
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11	1-0
100.00	0-7	0-9	0-10	1-0	1-2	1-4	1-5	1-6	1-8	1-9
125.00	0-11	1-2	1-4	1-7	1-10	2-0	2-3	2-5	2-7	2-8
150.00	1-4	1-8	2-0	2-4	2-7	2-11	3-2	3-6	3-8	3-10
175.00	1-10	2-3	2-8	3-1	3-7	4-0	4-4	4-9	5-0	5-3
200.00	2-5	2-11	3-6	4-1	4-8	5-2	5-8	6-2	6-7	6-10

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11	1-0
100.00	0-8	0-9	0-11	1-1	1-3	1-4	1-6	1-7	1-8	1-9
125.00	1-0	1-3	1-6	1-8	1-11	2-2	2-4	2-5	2-7	2-8
150.00	1-5	1-9	2-1	2-5	2-9	3-1	3-4	3-6	3-8	3-10
175.00	1-11	2-5	2-10	3-4	3-9	4-2	4-7	4-10	5-0	5-3
200.00	2-6	3-1	3-9	4-4	4-11	5-6	6-0	6-3	6-7	6-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 6 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH810.6
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS										

Stringing Sag Table Using Initial Sag							Ruling Span:	200.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2
125.00	1-2	1-3	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-10
150.00	1-8	1-9	1-11	2-0	2-1	2-2	2-4	2-5	2-6	2-7
175.00	2-3	2-5	2-7	2-9	2-10	3-0	3-2	3-3	3-5	3-6
200.00	2-11	3-2	3-4	3-7	3-9	3-11	4-1	4-3	4-5	4-7
225.00	3-8	4-0	4-3	4-6	4-9	5-0	5-2	5-5	5-8	5-10
250.00	4-7	4-11	5-3	5-6	5-10	6-2	6-5	6-8	6-11	7-2

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2
125.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-9	1-10
150.00	1-9	1-10	1-11	2-1	2-2	2-3	2-5	2-6	2-7	2-7
175.00	2-4	2-6	2-8	2-10	3-0	3-1	3-3	3-5	3-6	3-7
200.00	3-1	3-3	3-6	3-8	3-11	4-1	4-3	4-5	4-6	4-8
225.00	3-10	4-2	4-5	4-8	4-11	5-2	5-4	5-7	5-9	5-10
250.00	4-9	5-1	5-5	5-9	6-1	6-4	6-8	6-11	7-1	7-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET 7 OF 359</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH810.7
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-9	1-10	1-10	1-11	2-0	2-0	2-1	2-1	2-2	2-3
175.00	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-11	3-0
200.00	3-1	3-2	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11
225.00	3-11	4-1	4-2	4-4	4-5	4-6	4-8	4-9	4-11	5-0
250.00	4-10	5-0	5-2	5-4	5-6	5-7	5-9	5-11	6-0	6-2
275.00	5-10	6-1	6-3	6-5	6-7	6-9	6-11	7-2	7-4	7-5
300.00	7-0	7-3	7-5	7-8	7-10	8-1	8-3	8-6	8-8	8-10
325.00	8-2	8-6	8-9	9-0	9-3	9-6	9-9	9-11	10-2	10-5
350.00	9-6	9-10	10-1	10-5	10-9	11-0	11-3	11-7	11-10	12-1
375.00	10-11	11-3	11-7	12-0	12-4	12-8	12-11	13-3	13-7	13-10

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-9	1-10	1-11	1-11	2-0	2-1	2-1	2-2	2-3	2-3
175.00	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-11	3-0	3-1
200.00	3-2	3-3	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0
225.00	4-0	4-2	4-3	4-5	4-6	4-8	4-9	4-10	5-0	5-1
250.00	4-11	5-1	5-3	5-5	5-7	5-9	5-11	6-0	6-2	6-3
275.00	6-0	6-2	6-5	6-7	6-9	6-11	7-1	7-3	7-5	7-7
300.00	7-2	7-4	7-7	7-10	8-1	8-3	8-6	8-8	8-10	9-0
325.00	8-5	8-8	8-11	9-2	9-5	9-8	9-11	10-2	10-5	10-7
350.00	9-9	10-0	10-4	10-8	10-11	11-3	11-6	11-10	12-1	12-3
375.00	11-2	11-6	11-11	12-3	12-7	12-11	13-3	13-7	13-10	14-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 8 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.8
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN G095 LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-2	3-3	3-3	3-4	3-5	3-5	3-6	3-7	3-7	3-8
225.00	4-0	4-1	4-2	4-3	4-4	4-5	4-5	4-6	4-7	4-8
250.00	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9
275.00	6-0	6-1	6-3	6-4	6-5	6-6	6-8	6-9	6-10	6-11
300.00	7-2	7-3	7-5	7-6	7-8	7-9	7-11	8-0	8-2	8-3
325.00	8-5	8-6	8-8	8-10	9-0	9-2	9-3	9-5	9-7	9-8
350.00	9-9	9-11	10-1	10-3	10-5	10-7	10-9	10-11	11-1	11-3
375.00	11-2	11-4	11-7	11-9	12-0	12-2	12-4	12-7	12-9	12-11
400.00	12-9	12-11	13-2	13-5	13-7	13-10	14-1	14-3	14-6	14-8
425.00	14-4	14-7	14-10	15-2	15-5	15-8	15-11	16-1	16-4	16-7
450.00	16-1	16-5	16-8	17-0	17-3	17-6	17-10	18-1	18-4	18-7
475.00	17-11	18-3	18-7	18-11	19-3	19-6	19-10	20-2	20-5	20-9
500.00	19-10	20-3	20-7	20-11	21-4	21-8	22-0	22-4	22-8	23-0

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-3	3-3	3-4	3-5	3-5	3-6	3-7	3-7	3-8	3-9
225.00	4-1	4-2	4-3	4-4	4-4	4-5	4-6	4-7	4-8	4-8
250.00	5-0	5-1	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10
275.00	6-1	6-2	6-4	6-5	6-6	6-8	6-9	6-10	6-11	7-0
300.00	7-3	7-4	7-6	7-8	7-9	7-11	8-0	8-2	8-3	8-4
325.00	8-6	8-8	8-10	9-0	9-1	9-3	9-5	9-7	9-8	9-10
350.00	9-10	10-0	10-3	10-5	10-7	10-9	10-11	11-1	11-3	11-4
375.00	11-4	11-6	11-9	11-11	12-2	12-4	12-6	12-9	12-11	13-1
400.00	12-11	13-1	13-4	13-7	13-10	14-1	14-3	14-6	14-8	14-10
425.00	14-7	14-10	15-1	15-4	15-7	15-10	16-1	16-4	16-7	16-9
450.00	16-4	16-7	16-11	17-2	17-6	17-9	18-1	18-4	18-7	18-10
475.00	18-2	18-6	18-10	19-2	19-6	19-10	20-2	20-5	20-9	21-0
500.00	20-2	20-6	20-11	21-3	21-7	22-0	22-4	22-8	23-0	23-3

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-0	5-1	5-2	5-2	5-3	5-4	5-4	5-5	5-6	5-6
275.00	6-1	6-2	6-3	6-3	6-4	6-5	6-6	6-7	6-7	6-8
300.00	7-3	7-4	7-5	7-6	7-7	7-8	7-9	7-10	7-11	8-0
325.00	8-6	8-7	8-8	8-9	8-11	9-0	9-1	9-2	9-3	9-4
350.00	9-10	10-0	10-1	10-2	10-4	10-5	10-6	10-8	10-9	10-10
375.00	11-4	11-5	11-7	11-8	11-10	11-11	12-1	12-2	12-4	12-5
400.00	12-10	13-0	13-2	13-4	13-5	13-7	13-9	13-11	14-0	14-2
425.00	14-6	14-8	14-10	15-0	15-2	15-4	15-6	15-8	15-10	16-0
450.00	16-3	16-6	16-8	16-10	17-0	17-3	17-5	17-7	17-9	17-11
475.00	18-2	18-4	18-7	18-9	19-0	19-2	19-5	19-7	19-10	20-0
500.00	20-1	20-4	20-7	20-10	21-0	21-3	21-6	21-9	21-11	22-2
525.00	22-2	22-5	22-8	22-11	23-2	23-5	23-8	23-11	24-2	24-5
550.00	24-4	24-8	24-11	25-2	25-6	25-9	26-0	26-4	26-7	26-10
575.00	26-7	26-11	27-3	27-7	27-10	28-2	28-5	28-9	29-0	29-4
600.00	29-0	29-4	29-8	30-0	30-4	30-8	31-0	31-4	31-8	31-11
625.00	31-6	31-10	32-2	32-7	32-11	33-3	33-8	34-0	34-4	34-8

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SHEET 10 OF 359	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH810.10
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS					

Span = 200 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.651	2.3	1414	2.17	1500*
25	0	0	0	0.44	1.98	1110	1.8	1224
30	0	0	0	0.44	2.11	1045	1.91	1154
40	0	0	0	0.44	2.36	934	2.13	1032
50	0	0	0	0.44	2.6	846	2.36	932
60	0	0	0	0.44	2.84	775	2.59	850
70	0	0	0	0.44	3.07	718	2.81	782
80	0	0	0	0.44	3.29	670	3.03	726
90	0	0	0	0.44	3.5	630	3.24	679
100	0	0	0	0.44	3.66	601	3.45	639
110	0	0	0	0.44	3.78	583	3.64	605
120	0	0	0	0.44	3.89	566	3.83	575
130	0	0	0	0.44	4.01	550	4.01	550
167	0	0	0	0.44	4.41	500	4.41	500
212	0	0	0	0.44	4.87	453	4.87	453
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 11 OF 359		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH810.11
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS											


Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.651	13.93	1465	13.61	1500*
25	0	0	0	0.44	13.47	1023	13.05	1057
30	0	0	0	0.44	13.65	1011	13.22	1043
40	0	0	0	0.44	13.99	986	13.55	1018
50	0	0	0	0.44	14.32	963	13.88	994
60	0	0	0	0.44	14.65	942	14.2	972
70	0	0	0	0.44	14.97	922	14.51	951
80	0	0	0	0.44	15.29	903	14.83	931
90	0	0	0	0.44	15.6	885	15.13	912
100	0	0	0	0.44	15.91	868	15.43	894
110	0	0	0	0.44	16.21	852	15.73	877
120	0	0	0	0.44	16.49	838	16.03	862
130	0	0	0	0.44	16.67	829	16.32	846
167	0	0	0	0.44	17.33	797	17.33	797
212	0	0	0	0.44	18.12	763	18.11	763

* Design Condition

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<div style="text-align: center;"> <p>SHEET</p> <p>13 OF 359</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH810.13</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 1500 LBS</p> </div>				

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X New Page

OH810.13

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10
100.00	0-4	0-5	0-6	0-8	0-9	0-11	1-1	1-3	1-4	1-5
125.00	0-7	0-8	0-10	1-0	1-3	1-5	1-8	1-11	2-1	2-3
150.00	0-10	1-0	1-2	1-5	1-9	2-1	2-5	2-9	3-0	3-3
175.00	1-1	1-4	1-7	2-0	2-5	2-10	3-3	3-8	4-1	4-5
200.00	1-5	1-9	2-1	2-7	3-1	3-8	4-3	4-10	5-4	5-9

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-9	0-10
100.00	0-5	0-6	0-7	0-9	0-11	1-1	1-2	1-3	1-4	1-5
125.00	0-7	0-9	0-11	1-2	1-5	1-8	1-11	2-0	2-2	2-3
150.00	0-10	1-1	1-4	1-8	2-0	2-4	2-8	2-11	3-1	3-3
175.00	1-2	1-5	1-10	2-3	2-9	3-3	3-8	3-11	4-2	4-5
200.00	1-6	1-11	2-5	3-0	3-7	4-3	4-10	5-2	5-5	5-9

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 14 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH810.14
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS										

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11
125.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
150.00	0-11	1-1	1-2	1-4	1-5	1-7	1-8	1-10	1-11	2-1
175.00	1-4	1-6	1-8	1-10	2-0	2-2	2-4	2-6	2-8	2-9
200.00	1-8	1-11	2-2	2-4	2-7	2-10	3-0	3-3	3-5	3-8
225.00	2-2	2-5	2-8	3-0	3-3	3-7	3-10	4-1	4-4	4-7
250.00	2-8	3-0	3-4	3-8	4-1	4-5	4-9	5-1	5-5	5-8

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-10	0-11	0-11
125.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6
150.00	1-1	1-2	1-4	1-6	1-7	1-9	1-10	2-0	2-1	2-2
175.00	1-5	1-7	1-10	2-0	2-2	2-4	2-6	2-8	2-10	2-11
200.00	1-10	2-1	2-4	2-7	2-10	3-1	3-3	3-6	3-8	3-9
225.00	2-4	2-8	3-0	3-4	3-7	3-11	4-2	4-5	4-8	4-9
250.00	2-11	3-4	3-8	4-1	4-5	4-10	5-2	5-6	5-9	5-11

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 15 OF 359	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH810.15
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-7	1-8
175.00	1-5	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3
200.00	1-11	2-0	2-2	2-3	2-5	2-6	2-8	2-9	2-10	3-0
225.00	2-5	2-7	2-9	2-11	3-0	3-2	3-4	3-6	3-7	3-9
250.00	2-11	3-2	3-4	3-7	3-9	3-11	4-1	4-4	4-6	4-8
275.00	3-7	3-10	4-1	4-4	4-6	4-9	5-0	5-2	5-5	5-7
300.00	4-3	4-7	4-10	5-1	5-5	5-8	5-11	6-2	6-5	6-8
325.00	5-0	5-4	5-8	6-0	6-4	6-8	7-0	7-3	7-7	7-10
350.00	5-9	6-2	6-7	7-0	7-4	7-9	8-1	8-5	8-9	9-1
375.00	6-8	7-1	7-7	8-0	8-5	8-10	9-3	9-8	10-1	10-5

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-2	1-3	1-4	1-4	1-5	1-6	1-7	1-8	1-8	1-9
175.00	1-7	1-8	1-9	1-10	1-11	2-1	2-2	2-3	2-4	2-5
200.00	2-0	2-2	2-4	2-5	2-7	2-8	2-10	2-11	3-0	3-1
225.00	2-7	2-9	2-11	3-1	3-3	3-5	3-6	3-8	3-10	3-11
250.00	3-2	3-5	3-7	3-10	4-0	4-2	4-4	4-7	4-9	4-10
275.00	3-10	4-1	4-4	4-7	4-10	5-1	5-3	5-6	5-9	5-11
300.00	4-7	4-10	5-2	5-6	5-9	6-0	6-3	6-7	6-10	7-0
325.00	5-4	5-9	6-1	6-5	6-9	7-1	7-5	7-8	8-0	8-3
350.00	6-2	6-8	7-0	7-5	7-10	8-2	8-7	8-11	9-3	9-6
375.00	7-1	7-7	8-1	8-6	9-0	9-5	9-10	10-3	10-7	10-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 16 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.16
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN G095 LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-6	2-7	2-8
225.00	2-6	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-4	3-5
250.00	3-1	3-3	3-5	3-6	3-7	3-9	3-10	4-0	4-1	4-2
275.00	3-9	3-11	4-1	4-3	4-5	4-6	4-8	4-9	4-11	5-1
300.00	4-6	4-8	4-10	5-0	5-2	5-5	5-6	5-8	5-10	6-0
325.00	5-3	5-6	5-8	5-11	6-1	6-4	6-6	6-8	6-11	7-1
350.00	6-1	6-4	6-7	6-10	7-1	7-4	7-7	7-9	8-0	8-2
375.00	7-0	7-4	7-7	7-10	8-2	8-5	8-8	8-11	9-2	9-5
400.00	8-0	8-4	8-8	8-11	9-3	9-7	9-10	10-2	10-5	10-8
425.00	9-0	9-5	9-9	10-1	10-5	10-10	11-2	11-5	11-9	12-1
450.00	10-2	10-6	10-11	11-4	11-9	12-1	12-6	12-10	13-2	13-7
475.00	11-3	11-9	12-2	12-8	13-1	13-6	13-11	14-4	14-8	15-1
500.00	12-6	13-0	13-6	14-0	14-6	14-11	15-5	15-10	16-4	16-9

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-9
225.00	2-8	2-9	2-10	3-0	3-1	3-2	3-3	3-4	3-5	3-6
250.00	3-3	3-5	3-6	3-8	3-9	3-11	4-0	4-1	4-3	4-4
275.00	4-0	4-1	4-3	4-5	4-7	4-9	4-10	5-0	5-1	5-3
300.00	4-9	4-11	5-1	5-3	5-5	5-7	5-9	5-11	6-1	6-3
325.00	5-6	5-9	6-0	6-2	6-5	6-7	6-9	7-0	7-2	7-4
350.00	6-5	6-8	6-11	7-2	7-5	7-8	7-10	8-1	8-4	8-6
375.00	7-4	7-8	7-11	8-3	8-6	8-9	9-0	9-3	9-6	9-9
400.00	8-5	8-9	9-0	9-4	9-8	10-0	10-3	10-7	10-10	11-1
425.00	9-6	9-10	10-2	10-7	10-11	11-3	11-7	11-11	12-3	12-7
450.00	10-7	11-0	11-5	11-10	12-3	12-8	13-0	13-4	13-9	14-1
475.00	11-10	12-4	12-9	13-2	13-8	14-1	14-6	14-11	15-4	15-8
500.00	13-1	13-7	14-2	14-8	15-1	15-7	16-1	16-6	16-11	17-5

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div>SHEET</div> <div>17 OF 359</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH810.17
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS					

Span = 100 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.651	0.44	1868	0.41	2000*
25	0	0	0	0.44	0.31	1784	0.28	1939
30	0	0	0	0.44	0.34	1623	0.3	1808
40	0	0	0	0.44	0.42	1319	0.36	1549
50	0	0	0	0.44	0.52	1051	0.42	1300
60	0	0	0	0.44	0.66	835	0.51	1070
70	0	0	0	0.44	0.81	678	0.63	873
80	0	0	0	0.44	0.97	568	0.77	718
90	0	0	0	0.44	1.06	518	0.91	603
100	0	0	0	0.44	1.14	484	1.06	520
110	0	0	0	0.44	1.21	454	1.2	459
120	0	0	0	0.44	1.29	426	1.29	426
130	0	0	0	0.44	1.37	403	1.37	403
167	0	0	0	0.44	1.63	337	1.63	337
212	0	0	0	0.44	1.93	285	1.93	285

* Design Condition

Span = 200 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.651	1.78	1831	1.63	2000*
25	0	0	0	0.44	1.4	1568	1.23	1793
30	0	0	0	0.44	1.51	1458	1.3	1688
40	0	0	0	0.44	1.74	1266	1.48	1491
50	0	0	0	0.44	1.98	1110	1.67	1316
60	0	0	0	0.44	2.23	986	1.89	1167
70	0	0	0	0.44	2.48	888	2.11	1042
80	0	0	0	0.44	2.72	809	2.34	940
90	0	0	0	0.44	2.96	745	2.57	856
100	0	0	0	0.44	3.14	700	2.8	787
110	0	0	0	0.44	3.26	675	3.02	730
120	0	0	0	0.44	3.38	651	3.23	682
130	0	0	0	0.44	3.5	629	3.43	641
167	0	0	0	0.44	3.93	561	3.92	562
212	0	0	0	0.44	4.42	499	4.42	499

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>19 OF 359</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH810.19</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 2000 LBS</p> </div>					

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 20 OF 359		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH810.20
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS											

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.651	10.7	1904	10.19	2000*
25	0	0	0	0.44	9.99	1379	9.28	1484
30	0	0	0	0.44	10.2	1351	9.48	1452
40	0	0	0	0.44	10.61	1298	9.88	1394
50	0	0	0	0.44	11.02	1251	10.27	1341
60	0	0	0	0.44	11.41	1208	10.66	1292
70	0	0	0	0.44	11.8	1168	11.04	1248
80	0	0	0	0.44	12.18	1132	11.42	1207
90	0	0	0	0.44	12.55	1099	11.78	1169
100	0	0	0	0.44	12.91	1068	12.15	1135
110	0	0	0	0.44	13.26	1040	12.5	1103
120	0	0	0	0.44	13.61	1013	12.85	1073
130	0	0	0	0.44	13.88	994	13.19	1045
167	0	0	0	0.44	14.62	944	14.41	957
212	0	0	0	0.44	15.5	891	15.47	892

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

Completely Revised



Information Removed

OH810.21

SHEET
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DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8
100.00	0-3	0-4	0-4	0-5	0-6	0-8	0-9	0-11	1-1	1-2
125.00	0-5	0-6	0-7	0-8	0-10	1-0	1-2	1-5	1-8	1-10
150.00	0-7	0-8	0-10	0-11	1-2	1-5	1-9	2-1	2-5	2-8
175.00	0-10	0-11	1-1	1-4	1-7	1-11	2-4	2-10	3-3	3-8
200.00	1-1	1-3	1-5	1-8	2-1	2-6	3-1	3-8	4-3	4-10

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-4	0-4	0-5	0-7	0-7	0-8	0-8
100.00	0-3	0-4	0-5	0-6	0-8	0-10	1-0	1-1	1-2	1-3
125.00	0-5	0-6	0-8	0-10	1-0	1-3	1-6	1-8	1-9	1-11
150.00	0-8	0-9	0-11	1-2	1-6	1-10	2-2	2-5	2-7	2-9
175.00	0-10	1-0	1-3	1-7	2-0	2-6	3-0	3-3	3-6	3-9
200.00	1-2	1-4	1-8	2-1	2-8	3-3	3-11	4-3	4-7	4-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 22 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH810.22
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-8	0-9
125.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2
150.00	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-5	1-7	1-8
175.00	0-11	1-0	1-2	1-3	1-5	1-7	1-10	2-0	2-2	2-4
200.00	1-2	1-4	1-6	1-8	1-11	2-1	2-4	2-7	2-10	3-0
225.00	1-6	1-8	1-10	2-1	2-5	2-8	3-0	3-3	3-6	3-10
250.00	1-10	2-0	2-4	2-7	2-11	3-4	3-8	4-0	4-4	4-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-9	0-10
125.00	0-6	0-7	0-8	0-9	0-10	1-0	1-1	1-2	1-3	1-3
150.00	0-9	0-10	1-0	1-1	1-3	1-5	1-6	1-8	1-9	1-10
175.00	1-0	1-2	1-4	1-6	1-9	1-11	2-1	2-3	2-5	2-6
200.00	1-4	1-6	1-9	2-0	2-3	2-6	2-9	2-11	3-2	3-3
225.00	1-8	1-11	2-2	2-6	2-10	3-2	3-5	3-9	4-0	4-2
250.00	2-0	2-4	2-9	3-1	3-6	3-11	4-3	4-7	4-11	5-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 23 OF 359	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH810.23
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-4
175.00	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-8	1-9	1-10
200.00	1-3	1-5	1-6	1-8	1-9	1-11	2-1	2-2	2-4	2-5
225.00	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-1
250.00	2-0	2-2	2-5	2-7	2-10	3-0	3-3	3-5	3-7	3-10
275.00	2-5	2-8	2-11	3-2	3-5	3-8	3-11	4-2	4-4	4-7
300.00	2-10	3-2	3-5	3-9	4-0	4-4	4-7	4-11	5-2	5-6
325.00	3-4	3-8	4-0	4-5	4-9	5-1	5-5	5-9	6-1	6-5
350.00	3-11	4-3	4-8	5-1	5-6	5-11	6-4	6-8	7-1	7-5
375.00	4-6	4-11	5-4	5-10	6-4	6-9	7-3	7-8	8-1	8-7

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	1-0	1-1	1-2	1-3	1-3	1-4	1-5	1-6
175.00	1-1	1-3	1-4	1-5	1-7	1-8	1-9	1-10	1-11	2-0
200.00	1-5	1-7	1-9	1-11	2-0	2-2	2-4	2-5	2-7	2-8
225.00	1-10	2-0	2-2	2-5	2-7	2-9	2-11	3-1	3-3	3-4
250.00	2-3	2-6	2-9	2-11	3-2	3-4	3-7	3-9	4-0	4-2
275.00	2-9	3-0	3-3	3-7	3-10	4-1	4-4	4-7	4-10	5-0
300.00	3-3	3-7	3-11	4-3	4-7	4-10	5-2	5-5	5-9	6-0
325.00	3-10	4-2	4-7	5-0	5-4	5-8	6-1	6-5	6-9	7-0
350.00	4-5	4-10	5-4	5-9	6-2	6-7	7-0	7-5	7-10	8-2
375.00	5-1	5-7	6-1	6-7	7-1	7-7	8-1	8-6	9-0	9-4

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 24 OF 359		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH810.24
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS											

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2
225.00	1-9	1-10	2-0	2-1	2-2	2-4	2-5	2-6	2-8	2-9
250.00	2-2	2-4	2-5	2-7	2-9	2-10	3-0	3-1	3-3	3-4
275.00	2-7	2-9	2-11	3-1	3-3	3-5	3-7	3-9	3-11	4-1
300.00	3-1	3-4	3-6	3-9	3-11	4-1	4-4	4-6	4-8	4-10
325.00	3-8	3-11	4-1	4-4	4-7	4-10	5-0	5-3	5-6	5-8
350.00	4-3	4-6	4-9	5-1	5-4	5-7	5-10	6-1	6-4	6-7
375.00	4-10	5-2	5-6	5-10	6-1	6-5	6-9	7-0	7-4	7-7
400.00	5-6	5-11	6-3	6-7	6-11	7-4	7-8	8-0	8-4	8-7
425.00	6-3	6-8	7-0	7-5	7-10	8-3	8-7	9-0	9-4	9-9
450.00	7-0	7-5	7-11	8-4	8-10	9-3	9-8	10-1	10-6	10-11
475.00	7-9	8-3	8-10	9-4	9-10	10-3	10-9	11-3	11-8	12-2
500.00	8-8	9-2	9-9	10-4	10-10	11-5	11-11	12-6	13-0	13-6

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-6	1-7	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4
225.00	1-11	2-1	2-2	2-3	2-5	2-6	2-7	2-9	2-10	2-11
250.00	2-5	2-6	2-8	2-10	3-0	3-1	3-3	3-4	3-6	3-8
275.00	2-11	3-1	3-3	3-5	3-7	3-9	3-11	4-1	4-3	4-5
300.00	3-5	3-8	3-10	4-1	4-3	4-6	4-8	4-10	5-0	5-3
325.00	4-0	4-3	4-6	4-9	5-0	5-3	5-6	5-8	5-11	6-2
350.00	4-8	5-0	5-3	5-6	5-10	6-1	6-4	6-7	6-10	7-1
375.00	5-4	5-8	6-0	6-4	6-8	7-0	7-4	7-7	7-11	8-2
400.00	6-1	6-6	6-10	7-3	7-7	7-11	8-4	8-8	9-0	9-3
425.00	6-10	7-4	7-9	8-2	8-7	9-0	9-4	9-9	10-1	10-6
450.00	7-8	8-2	8-8	9-2	9-7	10-1	10-6	10-11	11-4	11-9
475.00	8-7	9-2	9-8	10-2	10-9	11-3	11-8	12-2	12-8	13-1
500.00	9-6	10-1	10-9	11-4	11-10	12-5	13-0	13-6	14-0	14-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 25 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.25
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>27 OF 359</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH810.27
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 28 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH810.28
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS										

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.651	8.8	2314	8.15	2500*
25	0	0	0	0.44	7.85	1753	6.94	1983
30	0	0	0	0.44	8.08	1703	7.14	1927
40	0	0	0	0.44	8.53	1613	7.55	1822
50	0	0	0	0.44	8.98	1533	7.97	1727
60	0	0	0	0.44	9.42	1462	8.38	1642
70	0	0	0	0.44	9.85	1398	8.8	1565
80	0	0	0	0.44	10.27	1341	9.21	1495
90	0	0	0	0.44	10.68	1289	9.61	1433
100	0	0	0	0.44	11.09	1243	10.01	1375
110	0	0	0	0.44	11.48	1200	10.41	1323
120	0	0	0	0.44	11.87	1161	10.8	1276
130	0	0	0	0.44	12.2	1130	11.18	1233
167	0	0	0	0.44	12.98	1062	12.53	1100
212	0	0	0	0.44	13.91	991	13.86	995

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

Indicates Latest Revision

Completely Revised

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New Page

Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN G095 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.29

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-8	0-9	0-11
125.00	0-4	0-4	0-5	0-6	0-7	0-8	0-10	1-0	1-2	1-5
150.00	0-6	0-6	0-7	0-8	0-10	0-11	1-2	1-5	1-9	2-1
175.00	0-8	0-9	0-10	0-11	1-1	1-4	1-7	1-11	2-4	2-10
200.00	0-10	0-11	1-1	1-3	1-5	1-8	2-1	2-7	3-1	3-8

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-6	0-7
100.00	0-3	0-3	0-4	0-5	0-6	0-7	0-9	0-10	0-11	1-0
125.00	0-4	0-5	0-6	0-7	0-9	1-0	1-3	1-4	1-6	1-7
150.00	0-6	0-7	0-9	0-11	1-1	1-5	1-9	1-11	2-1	2-3
175.00	0-9	0-10	1-0	1-3	1-6	1-11	2-4	2-8	2-10	3-1
200.00	0-11	1-1	1-4	1-7	2-0	2-6	3-1	3-6	3-9	4-0

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 30 OF 359	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH810.30
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-7
125.00	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-11	1-0
150.00	0-6	0-7	0-7	0-8	0-9	0-11	1-0	1-2	1-3	1-5
175.00	0-8	0-9	0-10	0-11	1-1	1-3	1-4	1-7	1-9	1-11
200.00	0-11	1-0	1-1	1-3	1-5	1-7	1-10	2-0	2-3	2-6
225.00	1-1	1-3	1-5	1-7	1-9	2-0	2-3	2-7	2-10	3-2
250.00	1-5	1-6	1-9	1-11	2-2	2-6	2-10	3-2	3-6	3-10

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-8	0-9
125.00	0-5	0-5	0-6	0-7	0-8	0-10	0-11	1-0	1-1	1-1
150.00	0-7	0-8	0-9	0-11	1-0	1-2	1-3	1-5	1-6	1-7
175.00	0-9	0-11	1-0	1-2	1-5	1-7	1-9	1-11	2-1	2-2
200.00	1-0	1-2	1-4	1-7	1-10	2-1	2-4	2-6	2-9	2-10
225.00	1-3	1-6	1-9	2-0	2-3	2-7	2-11	3-3	3-6	3-7
250.00	1-7	1-10	2-1	2-5	2-10	3-2	3-7	4-0	4-3	4-6

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

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Indicates Latest Revision	Completely Revised	X	New Page	Information Removed
SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS				

OH810.31

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2
175.00	0-9	0-10	0-10	0-11	1-1	1-2	1-3	1-4	1-5	1-7
200.00	0-11	1-0	1-2	1-3	1-4	1-6	1-8	1-9	1-11	2-0
225.00	1-2	1-4	1-5	1-7	1-9	1-11	2-1	2-3	2-5	2-7
250.00	1-6	1-7	1-9	1-11	2-2	2-4	2-7	2-9	3-0	3-2
275.00	1-10	2-0	2-2	2-4	2-7	2-10	3-1	3-4	3-7	3-10
300.00	2-2	2-4	2-7	2-10	3-1	3-4	3-8	4-0	4-3	4-7
325.00	2-6	2-9	3-0	3-4	3-7	4-0	4-4	4-8	5-0	5-4
350.00	2-11	3-2	3-6	3-10	4-2	4-7	5-0	5-5	5-10	6-3
375.00	3-4	3-8	4-0	4-5	4-10	5-3	5-9	6-2	6-8	7-2

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
175.00	0-10	0-11	1-1	1-2	1-3	1-5	1-6	1-7	1-8	1-10
200.00	1-1	1-3	1-4	1-6	1-8	1-10	1-11	2-1	2-3	2-4
225.00	1-5	1-7	1-9	1-11	2-1	2-3	2-6	2-8	2-10	3-0
250.00	1-9	1-11	2-2	2-4	2-7	2-10	3-1	3-3	3-6	3-8
275.00	2-1	2-4	2-7	2-10	3-2	3-5	3-8	3-11	4-2	4-5
300.00	2-6	2-9	3-1	3-5	3-9	4-1	4-5	4-8	5-0	5-3
325.00	2-11	3-3	3-8	4-0	4-5	4-9	5-2	5-6	5-11	6-2
350.00	3-5	3-9	4-2	4-8	5-1	5-6	6-0	6-5	6-10	7-2
375.00	3-11	4-4	4-10	5-4	5-10	6-4	6-10	7-4	7-10	8-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>32 OF 359</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH810.32
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN G095 LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-10
225.00	1-3	1-5	1-6	1-7	1-9	1-10	1-11	2-1	2-2	2-3
250.00	1-7	1-9	1-10	2-0	2-1	2-3	2-5	2-6	2-8	2-10
275.00	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-1	3-3	3-5
300.00	2-3	2-6	2-8	2-10	3-1	3-3	3-5	3-8	3-10	4-1
325.00	2-8	2-11	3-1	3-4	3-7	3-10	4-1	4-3	4-6	4-9
350.00	3-1	3-4	3-7	3-10	4-2	4-5	4-8	5-0	5-3	5-6
375.00	3-7	3-10	4-2	4-5	4-9	5-1	5-5	5-9	6-0	6-4
400.00	4-1	4-5	4-9	5-1	5-5	5-9	6-2	6-6	6-10	7-2
425.00	4-7	4-11	5-4	5-9	6-1	6-6	6-11	7-4	7-9	8-2
450.00	5-2	5-7	6-0	6-5	6-10	7-4	7-9	8-3	8-8	9-1
475.00	5-9	6-2	6-8	7-2	7-8	8-2	8-8	9-2	9-8	10-2
500.00	6-4	6-10	7-4	7-11	8-6	9-0	9-7	10-2	10-9	11-3


Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-2	1-3	1-4	1-6	1-7	1-8	1-9	1-10	1-11	2-0
225.00	1-6	1-7	1-9	1-10	2-0	2-1	2-3	2-4	2-5	2-7
250.00	1-10	2-0	2-2	2-4	2-5	2-7	2-9	2-11	3-0	3-2
275.00	2-3	2-5	2-7	2-9	3-0	3-2	3-4	3-6	3-8	3-10
300.00	2-8	2-10	3-1	3-4	3-6	3-9	4-0	4-2	4-4	4-7
325.00	3-1	3-4	3-7	3-11	4-2	4-5	4-8	4-11	5-2	5-4
350.00	3-7	3-11	4-2	4-6	4-10	5-1	5-5	5-8	5-11	6-3
375.00	4-2	4-6	4-10	5-2	5-6	5-10	6-2	6-6	6-10	7-2
400.00	4-8	5-1	5-6	5-11	6-3	6-8	7-1	7-5	7-9	8-1
425.00	5-4	5-9	6-2	6-8	7-1	7-6	7-11	8-4	8-9	9-2
450.00	5-11	6-5	6-11	7-5	7-11	8-5	8-11	9-5	9-10	10-3
475.00	6-8	7-2	7-9	8-4	8-10	9-5	9-11	10-5	11-0	11-5
500.00	7-4	8-0	8-7	9-2	9-10	10-5	11-0	11-7	12-2	12-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 33 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.33
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-8	1-9	1-11	2-0	2-1	2-2	2-4	2-5	2-6	2-7
275.00	2-0	2-2	2-3	2-5	2-6	2-8	2-9	2-11	3-0	3-2
300.00	2-5	2-7	2-9	2-10	3-0	3-2	3-4	3-6	3-7	3-9
325.00	2-10	3-0	3-2	3-4	3-6	3-9	3-11	4-1	4-3	4-5
350.00	3-4	3-6	3-8	3-11	4-1	4-4	4-6	4-9	4-11	5-1
375.00	3-9	4-0	4-3	4-6	4-9	4-11	5-2	5-5	5-8	5-10
400.00	4-4	4-7	4-10	5-1	5-4	5-8	5-11	6-2	6-5	6-8
425.00	4-10	5-2	5-5	5-9	6-1	6-4	6-8	6-11	7-3	7-6
450.00	5-5	5-9	6-1	6-5	6-9	7-1	7-5	7-9	8-1	8-5
475.00	6-1	6-5	6-10	7-2	7-7	7-11	8-4	8-8	9-0	9-5
500.00	6-9	7-2	7-7	8-0	8-5	8-10	9-2	9-7	10-0	10-5
525.00	7-5	7-10	8-4	8-9	9-3	9-8	10-2	10-7	11-0	11-6
550.00	8-2	8-8	9-2	9-8	10-2	10-8	11-2	11-8	12-1	12-7
575.00	8-11	9-5	10-0	10-6	11-1	11-8	12-2	12-9	13-3	13-9
600.00	9-8	10-3	10-11	11-6	12-1	12-8	13-3	13-10	14-5	15-0
625.00	10-6	11-2	11-10	12-5	13-1	13-9	14-5	15-0	15-8	16-3

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<div style="text-align: center;"> <p>SHEET</p> <p>34 OF 359</p> </div>	Indicates Latest Revision	Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH810.34</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 2500 LBS</p> </div>					

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.651	1.25	2613	1.09	3000*
25	0	0	0	0.44	0.9	2448	0.76	2898
30	0	0	0	0.44	0.96	2295	0.79	2776
40	0	0	0	0.44	1.1	2002	0.87	2532
50	0	0	0	0.44	1.27	1734	0.96	2291
60	0	0	0	0.44	1.47	1498	1.07	2054
70	0	0	0	0.44	1.69	1299	1.2	1828
80	0	0	0	0.44	1.94	1137	1.36	1616
90	0	0	0	0.44	2.19	1007	1.54	1424
100	0	0	0	0.44	2.38	924	1.75	1257
110	0	0	0	0.44	2.5	881	1.97	1116
120	0	0	0	0.44	2.61	842	2.2	999
130	0	0	0	0.44	2.73	806	2.43	904
167	0	0	0	0.44	3.17	694	3.14	701
212	0	0	0	0.44	3.7	595	3.68	599

* Design Condition

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C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 35 OF 359		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH810.35
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS											

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.651	7.53	2704	6.79	3000*
25	0	0	0	0.44	6.41	2148	5.42	2540
30	0	0	0	0.44	6.63	2074	5.59	2460
40	0	0	0	0.44	7.09	1940	5.96	2309
50	0	0	0	0.44	7.55	1822	6.34	2169
60	0	0	0	0.44	8.01	1718	6.74	2041
70	0	0	0	0.44	8.47	1626	7.15	1925
80	0	0	0	0.44	8.91	1545	7.56	1820
90	0	0	0	0.44	9.35	1472	7.98	1725
100	0	0	0	0.44	9.79	1407	8.4	1639
110	0	0	0	0.44	10.21	1349	8.81	1562
120	0	0	0	0.44	10.62	1297	9.23	1492
130	0	0	0	0.44	11	1253	9.63	1429
167	0	0	0	0.44	11.8	1168	11.09	1242
212	0	0	0	0.44	12.77	1080	12.68	1087
* Design Condition								

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

Completely Revised

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New Page

Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.37

SHEET
37 OF 359

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-4	0-4
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-8
125.00	0-3	0-4	0-4	0-4	0-5	0-6	0-7	0-8	0-10	1-0
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-10	1-0	1-2	1-5
175.00	0-7	0-7	0-8	0-9	0-10	0-11	1-1	1-4	1-7	2-0
200.00	0-9	0-9	0-10	0-11	1-1	1-3	1-5	1-9	2-1	2-7

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-5	0-6
100.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10
125.00	0-4	0-4	0-5	0-6	0-7	0-9	0-11	1-1	1-2	1-3
150.00	0-5	0-6	0-7	0-9	0-10	1-1	1-4	1-7	1-8	1-10
175.00	0-7	0-8	0-10	1-0	1-2	1-6	1-10	2-2	2-4	2-6
200.00	0-10	0-11	1-1	1-3	1-7	1-11	2-5	2-10	3-0	3-3

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Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6
125.00	0-3	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0	1-1
175.00	0-7	0-7	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-6
200.00	0-9	0-10	0-10	1-0	1-1	1-2	1-4	1-7	1-9	2-0
225.00	0-11	1-0	1-1	1-3	1-4	1-6	1-9	1-11	2-3	2-6
250.00	1-2	1-3	1-4	1-6	1-8	1-11	2-2	2-5	2-9	3-1

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-7	0-7
125.00	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0
150.00	0-6	0-6	0-7	0-9	0-10	0-11	1-1	1-3	1-4	1-5
175.00	0-8	0-9	0-10	1-0	1-1	1-4	1-6	1-8	1-10	1-11
200.00	0-10	1-0	1-1	1-3	1-6	1-8	1-11	2-2	2-5	2-6
225.00	1-1	1-3	1-5	1-7	1-10	2-2	2-5	2-9	3-0	3-2
250.00	1-4	1-6	1-9	2-0	2-4	2-8	3-0	3-5	3-9	3-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>39 OF 359</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH810.39</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 3000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-10	0-11
175.00	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3
200.00	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-7	1-8
225.00	1-0	1-0	1-2	1-3	1-4	1-6	1-8	1-10	2-0	2-2
250.00	1-2	1-3	1-5	1-6	1-8	1-10	2-0	2-3	2-5	2-8
275.00	1-5	1-7	1-8	1-10	2-0	2-3	2-5	2-8	2-11	3-2
300.00	1-8	1-10	2-0	2-2	2-5	2-8	2-11	3-2	3-6	3-9
325.00	2-0	2-2	2-4	2-7	2-10	3-1	3-5	3-9	4-1	4-5
350.00	2-4	2-6	2-9	3-0	3-3	3-7	4-0	4-4	4-9	5-2
375.00	2-8	2-11	3-2	3-5	3-9	4-2	4-7	5-0	5-5	5-11

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2
175.00	0-8	0-9	0-10	1-0	1-1	1-2	1-3	1-5	1-6	1-7
200.00	0-11	1-0	1-1	1-3	1-5	1-6	1-8	1-10	2-0	2-1
225.00	1-2	1-3	1-5	1-7	1-9	1-11	2-2	2-4	2-6	2-8
250.00	1-5	1-7	1-9	1-11	2-2	2-5	2-8	2-10	3-1	3-3
275.00	1-8	1-11	2-1	2-4	2-8	2-11	3-2	3-5	3-9	4-0
300.00	2-0	2-3	2-6	2-10	3-2	3-5	3-9	4-1	4-5	4-9
325.00	2-4	2-8	3-0	3-4	3-8	4-1	4-5	4-10	5-2	5-6
350.00	2-9	3-1	3-5	3-10	4-3	4-8	5-2	5-7	6-0	6-5
375.00	3-2	3-6	3-11	4-5	4-11	5-5	5-11	6-5	6-11	7-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 40 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH810.40
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6
225.00	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-8	1-10	1-11
250.00	1-3	1-4	1-5	1-7	1-8	1-10	1-11	2-1	2-3	2-4
275.00	1-6	1-7	1-9	1-11	2-0	2-2	2-4	2-6	2-8	2-10
300.00	1-10	1-11	2-1	2-3	2-5	2-7	2-10	3-0	3-2	3-5
325.00	2-1	2-3	2-5	2-8	2-10	3-1	3-3	3-6	3-9	4-0
350.00	2-5	2-8	2-10	3-1	3-4	3-7	3-10	4-1	4-4	4-8
375.00	2-10	3-0	3-3	3-6	3-9	4-1	4-5	4-8	5-0	5-4
400.00	3-2	3-5	3-8	4-0	4-4	4-8	5-0	5-4	5-8	6-1
425.00	3-7	3-10	4-2	4-6	4-10	5-3	5-8	6-0	6-5	6-10
450.00	4-0	4-4	4-8	5-1	5-5	5-10	6-4	6-9	7-3	7-8
475.00	4-6	4-10	5-3	5-8	6-1	6-6	7-0	7-6	8-0	8-7
500.00	5-0	5-4	5-9	6-3	6-9	7-3	7-9	8-4	8-11	9-6

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-11	1-0	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-10
225.00	1-2	1-4	1-5	1-7	1-8	1-10	1-11	2-1	2-2	2-4
250.00	1-6	1-7	1-9	1-11	2-1	2-3	2-5	2-6	2-8	2-10
275.00	1-10	2-0	2-2	2-4	2-6	2-8	2-11	3-1	3-3	3-5
300.00	2-2	2-4	2-7	2-9	3-0	3-3	3-5	3-8	3-10	4-1
325.00	2-6	2-9	3-0	3-3	3-6	3-9	4-0	4-3	4-6	4-9
350.00	2-11	3-2	3-6	3-9	4-1	4-4	4-8	5-0	5-3	5-7
375.00	3-4	3-8	4-0	4-4	4-8	5-0	5-4	5-9	6-1	6-4
400.00	3-10	4-2	4-6	4-11	5-4	5-9	6-1	6-6	6-11	7-3
425.00	4-3	4-8	5-1	5-7	6-0	6-5	6-11	7-4	7-9	8-2
450.00	4-10	5-3	5-9	6-3	6-9	7-3	7-9	8-3	8-8	9-2
475.00	5-4	5-10	6-5	6-11	7-6	8-1	8-7	9-2	9-8	10-3
500.00	5-11	6-6	7-1	7-8	8-4	8-11	9-7	10-2	10-9	11-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 41 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH810.41
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS										

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 43 OF 359		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH810.43
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS											

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	1.475	30.18	1000	30.18	1000*
0.0	0.00	0.00	0.00	0.440	29.95	300	29.89	301
30.0	0.00	0.00	0.00	0.440	30.29	297	30.25	298
40.0	0.00	0.00	0.00	0.440	30.40	296	30.35	297
50.0	0.00	0.00	0.00	0.440	30.50	295	30.46	296
60.0	0.00	0.00	0.00	0.440	30.61	294	30.56	295
70.0	0.00	0.00	0.00	0.440	30.72	293	30.66	294
80.0	0.00	0.00	0.00	0.440	30.80	292	30.77	293
90.0	0.00	0.00	0.00	0.440	30.88	292	30.87	292
100.0	0.00	0.00	0.00	0.440	30.95	291	30.95	291
110.0	0.00	0.00	0.00	0.440	31.02	291	31.02	291
120.0	0.00	0.00	0.00	0.440	31.09	290	31.09	290
130.0	0.00	0.00	0.00	0.440	31.16	289	31.16	289
167.0	0.00	0.00	0.00	0.440	31.42	287	31.42	287
212.0	0.00	0.00	0.00	0.440	31.73	284	31.73	284
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 44 OF 359		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH810.44
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS											

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	1.475	47.79	1000	47.79	1000*
0.0	0.00	0.00	0.00	0.440	47.56	300	47.50	300
30.0	0.00	0.00	0.00	0.440	47.90	298	47.86	298
40.0	0.00	0.00	0.00	0.440	48.01	297	47.96	297
50.0	0.00	0.00	0.00	0.440	48.12	296	48.07	297
60.0	0.00	0.00	0.00	0.440	48.23	296	48.17	296
70.0	0.00	0.00	0.00	0.440	48.33	295	48.28	295
80.0	0.00	0.00	0.00	0.440	48.42	295	48.38	295
90.0	0.00	0.00	0.00	0.440	48.49	294	48.49	294
100.0	0.00	0.00	0.00	0.440	48.56	294	48.56	294
110.0	0.00	0.00	0.00	0.440	48.64	293	48.63	293
120.0	0.00	0.00	0.00	0.440	48.71	293	48.71	293
130.0	0.00	0.00	0.00	0.440	48.78	293	48.78	293
167.0	0.00	0.00	0.00	0.440	49.04	291	49.04	291
212.0	0.00	0.00	0.00	0.440	49.36	289	49.36	289

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>45 OF 359</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH810.45</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 1000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-0	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-5	1-5
100.00	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-6
125.00	2-10	3-0	3-2	3-3	3-5	3-7	3-8	3-9	3-10	3-11
150.00	4-1	4-4	4-6	4-9	4-11	5-1	5-4	5-5	5-7	5-8
175.00	5-7	5-10	6-2	6-5	6-8	7-0	7-3	7-5	7-7	7-9
200.00	7-3	7-8	8-0	8-5	8-9	9-1	9-5	9-8	9-11	10-1

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-0	1-1	1-2	1-2	1-3	1-4	1-4	1-4	1-5	1-5
100.00	1-10	1-11	2-1	2-2	2-3	2-4	2-4	2-5	2-6	2-6
125.00	2-11	3-1	3-2	3-4	3-6	3-7	3-8	3-9	3-10	3-11
150.00	4-2	4-5	4-7	4-10	5-0	5-2	5-4	5-5	5-7	5-8
175.00	5-8	6-0	6-3	6-7	6-10	7-1	7-3	7-5	7-7	7-9
200.00	7-5	7-10	8-2	8-7	8-11	9-3	9-6	9-8	9-11	10-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 46 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH810.46
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-10	1-10	1-11	1-11	1-11	2-0	2-0	2-0	2-0	2-1
125.00	2-11	2-11	3-0	3-0	3-0	3-1	3-1	3-2	3-2	3-2
150.00	4-2	4-2	4-3	4-4	4-5	4-5	4-6	4-6	4-7	4-7
175.00	5-8	5-9	5-10	5-11	6-0	6-0	6-1	6-2	6-3	6-3
200.00	7-5	7-6	7-7	7-8	7-9	7-11	8-0	8-1	8-2	8-3
225.00	9-4	9-6	9-7	9-9	9-10	10-0	10-1	10-3	10-4	10-5
250.00	11-7	11-8	11-10	12-0	12-2	12-4	12-6	12-8	12-9	12-10

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-10	1-11	1-11	1-11	1-11	2-0	2-0	2-0	2-0	2-1
125.00	2-11	2-11	3-0	3-0	3-1	3-1	3-2	3-2	3-2	3-2
150.00	4-2	4-3	4-3	4-4	4-5	4-6	4-6	4-6	4-7	4-7
175.00	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-2	6-3	6-3
200.00	7-5	7-6	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3
225.00	9-5	9-6	9-8	9-10	9-11	10-1	10-2	10-3	10-4	10-5
250.00	11-7	11-9	11-11	12-1	12-3	12-5	12-6	12-8	12-9	12-10

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[illegible]

Stringing Sag Table Using Initial Sag							Ruling Span: 300.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-2	4-2	4-3	4-3	4-3	4-4	4-4	4-4	4-5	4-5
175.00	5-8	5-9	5-9	5-10	5-10	5-10	5-11	5-11	5-11	6-0
200.00	7-5	7-6	7-6	7-7	7-7	7-8	7-9	7-9	7-9	7-10
225.00	9-5	9-6	9-6	9-7	9-8	9-8	9-9	9-10	9-10	9-11
250.00	11-8	11-8	11-9	11-10	11-11	12-0	12-1	12-2	12-2	12-3
275.00	14-1	14-2	14-3	14-4	14-5	14-6	14-7	14-8	14-9	14-10
300.00	16-9	16-10	17-0	17-1	17-2	17-3	17-5	17-6	17-7	17-8
325.00	19-8	19-10	19-11	20-1	20-2	20-4	20-5	20-7	20-8	20-9
350.00	22-10	23-0	23-2	23-3	23-5	23-7	23-9	23-10	23-11	24-0
375.00	26-3	26-5	26-7	26-9	26-11	27-1	27-3	27-5	27-6	27-7

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-2	4-3	4-3	4-3	4-4	4-4	4-4	4-4	4-5	4-5
175.00	5-8	5-9	5-9	5-10	5-10	5-11	5-11	5-11	6-0	6-0
200.00	7-5	7-6	7-7	7-7	7-8	7-8	7-9	7-9	7-9	7-10
225.00	9-5	9-6	9-7	9-7	9-8	9-9	9-9	9-10	9-10	9-11
250.00	11-8	11-9	11-10	11-11	11-11	12-0	12-1	12-2	12-2	12-3
275.00	14-1	14-2	14-4	14-5	14-6	14-7	14-8	14-8	14-9	14-10
300.00	16-10	16-11	17-0	17-2	17-3	17-4	17-5	17-6	17-7	17-8
325.00	19-9	19-10	20-0	20-1	20-3	20-4	20-6	20-7	20-8	20-9
350.00	22-11	23-1	23-2	23-4	23-6	23-8	23-9	23-10	23-11	24-0
375.00	26-4	26-6	26-8	26-10	27-0	27-2	27-4	27-5	27-6	27-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>48 OF 359</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.48
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-6	7-6	7-7	7-7	7-7	7-7	7-8	7-8	7-8	7-9
225.00	9-6	9-6	9-7	9-7	9-7	9-8	9-8	9-9	9-9	9-9
250.00	11-9	11-9	11-10	11-10	11-11	11-11	12-0	12-0	12-0	12-1
275.00	14-2	14-3	14-3	14-4	14-5	14-5	14-6	14-6	14-7	14-7
300.00	16-11	16-11	17-0	17-1	17-2	17-2	17-3	17-4	17-4	17-5
325.00	19-10	19-11	20-0	20-1	20-1	20-2	20-3	20-4	20-4	20-5
350.00	23-0	23-1	23-2	23-3	23-4	23-5	23-6	23-7	23-8	23-8
375.00	26-6	26-7	26-8	26-9	26-10	26-11	27-0	27-1	27-2	27-3
400.00	30-2	30-3	30-4	30-5	30-7	30-8	30-9	30-10	30-11	31-0
425.00	34-1	34-2	34-4	34-5	34-6	34-8	34-9	34-11	35-0	35-1
450.00	38-3	38-4	38-6	38-7	38-9	38-11	39-0	39-2	39-3	39-4
475.00	42-8	42-9	42-11	43-1	43-3	43-5	43-6	43-8	43-9	43-11
500.00	47-3	47-5	47-7	47-9	47-11	48-1	48-3	48-5	48-7	48-8

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-6	7-6	7-7	7-7	7-7	7-8	7-8	7-8	7-8	7-9
225.00	9-6	9-6	9-7	9-7	9-8	9-8	9-8	9-9	9-9	9-9
250.00	11-9	11-9	11-10	11-10	11-11	11-11	12-0	12-0	12-0	12-1
275.00	14-3	14-3	14-4	14-4	14-5	14-6	14-6	14-6	14-7	14-7
300.00	16-11	17-0	17-1	17-1	17-2	17-3	17-3	17-4	17-4	17-5
325.00	19-10	19-11	20-0	20-1	20-2	20-3	20-3	20-4	20-5	20-5
350.00	23-1	23-2	23-3	23-4	23-5	23-6	23-7	23-7	23-8	23-8
375.00	26-6	26-7	26-8	26-9	26-11	27-0	27-1	27-1	27-2	27-3
400.00	30-2	30-3	30-5	30-6	30-7	30-9	30-10	30-11	30-11	31-0
425.00	34-1	34-3	34-4	34-6	34-7	34-9	34-10	34-11	35-0	35-1
450.00	38-3	38-5	38-7	38-8	38-10	39-0	39-1	39-2	39-3	39-4
475.00	42-8	42-10	43-0	43-2	43-4	43-5	43-7	43-8	43-9	43-11
500.00	47-4	47-6	47-8	47-10	48-0	48-2	48-4	48-5	48-7	48-8

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<div>SHEET</div> <div>49 OF 359</div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	OH810.49
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS						

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	11-10	11-10	11-11	11-11	11-11	12-0	12-0	12-0	12-0	12-1
275.00	14-4	14-4	14-5	14-5	14-5	14-6	14-6	14-7	14-7	14-7
300.00	17-1	17-1	17-2	17-2	17-3	17-3	17-3	17-4	17-4	17-4
325.00	20-0	20-1	20-1	20-2	20-3	20-3	20-4	20-4	20-4	20-5
350.00	23-3	23-4	23-4	23-5	23-6	23-6	23-7	23-7	23-8	23-8
375.00	26-9	26-9	26-10	26-11	26-11	27-0	27-1	27-2	27-2	27-3
400.00	30-5	30-6	30-7	30-8	30-8	30-9	30-10	30-11	30-11	31-0
425.00	34-5	34-6	34-6	34-7	34-8	34-9	34-10	34-11	35-0	35-0
450.00	38-7	38-8	38-9	38-10	38-11	39-0	39-1	39-2	39-3	39-4
475.00	43-1	43-2	43-3	43-4	43-5	43-6	43-7	43-8	43-9	43-10
500.00	47-9	47-10	48-0	48-1	48-2	48-3	48-5	48-6	48-7	48-8
525.00	52-9	52-10	52-11	53-1	53-2	53-4	53-5	53-6	53-7	53-8
550.00	57-11	58-1	58-2	58-4	58-5	58-7	58-8	58-10	58-11	59-0
575.00	63-5	63-6	63-8	63-10	63-11	64-1	64-3	64-5	64-6	64-7
600.00	69-1	69-3	69-5	69-7	69-9	69-11	70-1	70-2	70-4	70-5
625.00	75-1	75-3	75-5	75-7	75-9	75-11	76-1	76-3	76-5	76-6

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	11-10	11-10	11-11	11-11	11-11	12-0	12-0	12-0	12-0	12-1
275.00	14-4	14-4	14-5	14-5	14-6	14-6	14-6	14-7	14-7	14-7
300.00	17-1	17-1	17-2	17-2	17-3	17-3	17-4	17-4	17-4	17-4
325.00	20-1	20-1	20-2	20-2	20-3	20-3	20-4	20-4	20-4	20-5
350.00	23-3	23-4	23-5	23-5	23-6	23-6	23-7	23-7	23-8	23-8
375.00	26-9	26-10	26-10	26-11	27-0	27-1	27-1	27-2	27-2	27-3
400.00	30-5	30-6	30-7	30-8	30-9	30-10	30-10	30-11	30-11	31-0
425.00	34-5	34-6	34-7	34-8	34-9	34-10	34-10	34-11	35-0	35-0
450.00	38-7	38-9	38-10	38-11	39-0	39-1	39-2	39-2	39-3	39-4
475.00	43-1	43-2	43-3	43-5	43-6	43-7	43-8	43-9	43-9	43-10
500.00	47-10	47-11	48-0	48-1	48-3	48-4	48-5	48-6	48-7	48-8
525.00	52-9	52-11	53-0	53-1	53-3	53-4	53-5	53-6	53-7	53-8
550.00	58-0	58-1	58-3	58-4	58-6	58-8	58-9	58-10	58-11	59-0
575.00	63-5	63-7	63-9	63-11	64-0	64-2	64-3	64-5	64-6	64-7
600.00	69-2	69-4	69-6	69-8	69-10	70-0	70-1	70-2	70-4	70-5
625.00	75-2	75-4	75-6	75-8	75-10	76-0	76-2	76-3	76-5	76-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>50 OF 359</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.50
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					


<div style="text-align: center;"> <p>SHEET</p> <p>51 OF 359</p> </div>	Indicates Latest Revision		Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH810.51</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 1500 LBS</p> </div>					

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	1.475	31.21	1500	31.21	1500*
0.0	0.00	0.00	0.00	0.440	30.73	454	30.64	456
30.0	0.00	0.00	0.00	0.440	31.22	447	31.12	449
40.0	0.00	0.00	0.00	0.440	31.38	445	31.28	446
50.0	0.00	0.00	0.00	0.440	31.54	443	31.44	444
60.0	0.00	0.00	0.00	0.440	31.71	441	31.59	442
70.0	0.00	0.00	0.00	0.440	31.87	439	31.75	440
80.0	0.00	0.00	0.00	0.440	32.02	436	31.90	438
90.0	0.00	0.00	0.00	0.440	32.16	435	32.06	436
100.0	0.00	0.00	0.00	0.440	32.26	433	32.21	434
110.0	0.00	0.00	0.00	0.440	32.37	432	32.36	432
120.0	0.00	0.00	0.00	0.440	32.47	431	32.47	431
130.0	0.00	0.00	0.00	0.440	32.58	429	32.58	429
167.0	0.00	0.00	0.00	0.440	32.96	424	32.96	424
212.0	0.00	0.00	0.00	0.440	33.42	419	33.42	419

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>53 OF 359</p> </div>	Indicates Latest Revision		Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH810.53</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 1500 LBS</p> </div>					

Completely Revised

 New Page

OH810.53

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-1	1-1
100.00	1-0	1-2	1-3	1-5	1-6	1-8	1-9	1-10	1-11	2-0
125.00	1-7	1-10	2-0	2-2	2-5	2-7	2-9	2-11	3-0	3-1
150.00	2-3	2-7	2-11	3-2	3-5	3-8	3-11	4-2	4-4	4-6
175.00	3-1	3-6	3-11	4-4	4-8	5-1	5-4	5-8	5-11	6-1
200.00	4-0	4-7	5-2	5-8	6-2	6-7	7-0	7-5	7-8	7-11

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-1	1-1
100.00	1-1	1-3	1-4	1-6	1-7	1-9	1-10	1-10	1-11	2-0
125.00	1-8	1-11	2-2	2-4	2-6	2-8	2-10	2-11	3-0	3-1
150.00	2-5	2-9	3-1	3-5	3-8	3-11	4-0	4-2	4-4	4-6
175.00	3-4	3-9	4-2	4-7	5-0	5-4	5-6	5-8	5-11	6-1
200.00	4-4	4-11	5-6	6-0	6-6	6-11	7-2	7-5	7-8	7-11

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 54 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.54
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-3	1-3	1-3	1-4	1-4	1-5	1-5	1-5	1-6
125.00	1-10	1-11	1-11	2-0	2-1	2-1	2-2	2-3	2-3	2-4
150.00	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-2	3-3	3-4
175.00	3-7	3-8	3-10	3-11	4-1	4-2	4-3	4-4	4-6	4-6
200.00	4-8	4-10	5-0	5-2	5-3	5-5	5-7	5-8	5-10	5-11
225.00	5-11	6-2	6-4	6-6	6-8	6-10	7-1	7-3	7-5	7-6
250.00	7-4	7-7	7-10	8-0	8-3	8-6	8-8	8-11	9-1	9-3

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-5	1-6	1-6
125.00	1-10	1-11	2-0	2-1	2-1	2-2	2-3	2-3	2-3	2-4
150.00	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-3	3-4
175.00	3-8	3-9	3-11	4-0	4-2	4-3	4-4	4-5	4-6	4-6
200.00	4-9	4-11	5-1	5-3	5-5	5-6	5-8	5-9	5-10	5-11
225.00	6-1	6-3	6-5	6-8	6-10	7-0	7-2	7-3	7-5	7-6
250.00	7-6	7-9	8-0	8-2	8-5	8-8	8-10	9-0	9-2	9-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>55 OF 359</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH810.55
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-9	2-9	2-10	2-10	2-10	2-11	2-11	3-0	3-0	3-1
175.00	3-8	3-9	3-10	3-10	3-11	3-11	4-0	4-1	4-1	4-2
200.00	4-10	4-11	5-0	5-0	5-1	5-2	5-3	5-4	5-4	5-5
225.00	6-1	6-2	6-3	6-5	6-6	6-7	6-8	6-9	6-10	6-10
250.00	7-7	7-8	7-9	7-10	8-0	8-1	8-2	8-3	8-5	8-6
275.00	9-2	9-3	9-5	9-6	9-8	9-9	9-11	10-0	10-2	10-3
300.00	10-11	11-0	11-2	11-4	11-6	11-8	11-10	11-11	12-1	12-3
325.00	12-9	12-11	13-2	13-4	13-6	13-8	13-10	14-0	14-2	14-4
350.00	14-10	15-0	15-3	15-5	15-8	15-10	16-1	16-3	16-6	16-8
375.00	17-0	17-3	17-6	17-9	18-0	18-3	18-5	18-8	18-11	19-1

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-9	2-9	2-10	2-10	2-11	2-11	3-0	3-0	3-0	3-1
175.00	3-9	3-9	3-10	3-11	3-11	4-0	4-1	4-1	4-1	4-2
200.00	4-10	4-11	5-0	5-1	5-2	5-3	5-3	5-4	5-5	5-5
225.00	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-9	6-10	6-10
250.00	7-7	7-9	7-10	7-11	8-1	8-2	8-3	8-4	8-5	8-6
275.00	9-3	9-4	9-6	9-7	9-9	9-11	10-0	10-1	10-2	10-3
300.00	11-0	11-2	11-4	11-5	11-7	11-9	11-11	12-0	12-1	12-3
325.00	12-11	13-1	13-3	13-5	13-8	13-10	14-0	14-1	14-3	14-4
350.00	14-11	15-2	15-5	15-7	15-10	16-0	16-3	16-5	16-6	16-8
375.00	17-2	17-5	17-8	17-11	18-2	18-5	18-8	18-10	19-0	19-1

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SHEET 56 OF 359	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH810.56
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-11	4-11	5-0	5-0	5-1	5-1	5-1	5-2	5-2	5-3
225.00	6-2	6-3	6-3	6-4	6-5	6-5	6-6	6-6	6-7	6-8
250.00	7-8	7-8	7-9	7-10	7-11	7-11	8-0	8-1	8-2	8-2
275.00	9-3	9-4	9-5	9-6	9-7	9-7	9-8	9-9	9-10	9-11
300.00	11-0	11-1	11-2	11-3	11-4	11-5	11-6	11-8	11-9	11-10
325.00	12-11	13-0	13-2	13-3	13-4	13-5	13-7	13-8	13-9	13-10
350.00	15-0	15-2	15-3	15-4	15-6	15-7	15-9	15-10	15-11	16-1
375.00	17-3	17-4	17-6	17-8	17-9	17-11	18-1	18-2	18-4	18-5
400.00	19-7	19-9	19-11	20-1	20-3	20-5	20-7	20-8	20-10	21-0
425.00	22-2	22-4	22-6	22-8	22-10	23-0	23-2	23-5	23-7	23-9
450.00	24-10	25-1	25-3	25-5	25-8	25-10	26-0	26-3	26-5	26-7
475.00	27-8	27-11	28-2	28-4	28-7	28-10	29-0	29-3	29-5	29-8
500.00	30-8	30-11	31-2	31-5	31-8	31-11	32-2	32-5	32-8	32-11

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-11	4-11	5-0	5-0	5-1	5-1	5-2	5-2	5-3	5-3
225.00	6-3	6-3	6-4	6-4	6-5	6-6	6-6	6-7	6-7	6-8
250.00	7-8	7-9	7-10	7-10	7-11	8-0	8-1	8-1	8-2	8-2
275.00	9-4	9-5	9-5	9-6	9-7	9-8	9-9	9-10	9-10	9-11
300.00	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-10
325.00	13-0	13-1	13-3	13-4	13-5	13-6	13-8	13-9	13-9	13-10
350.00	15-1	15-2	15-4	15-5	15-7	15-8	15-10	15-11	16-0	16-1
375.00	17-4	17-5	17-7	17-9	17-11	18-0	18-2	18-3	18-4	18-5
400.00	19-9	19-10	20-0	20-2	20-4	20-6	20-8	20-10	20-11	21-0
425.00	22-3	22-5	22-7	22-10	23-0	23-2	23-4	23-6	23-7	23-9
450.00	25-0	25-2	25-5	25-7	25-9	26-0	26-2	26-4	26-6	26-7
475.00	27-10	28-1	28-3	28-6	28-9	29-0	29-2	29-4	29-6	29-8
500.00	30-10	31-1	31-4	31-7	31-10	32-1	32-4	32-7	32-9	32-11

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 57 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.57
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-9	7-9	7-9	7-10	7-10	7-11	7-11	8-0	8-0	8-1
275.00	9-4	9-5	9-5	9-6	9-6	9-7	9-7	9-8	9-8	9-9
300.00	11-1	11-2	11-3	11-3	11-4	11-5	11-5	11-6	11-7	11-7
325.00	13-1	13-1	13-2	13-3	13-4	13-4	13-5	13-6	13-7	13-8
350.00	15-2	15-3	15-3	15-4	15-5	15-6	15-7	15-8	15-9	15-10
375.00	17-5	17-6	17-7	17-8	17-9	17-10	17-11	18-0	18-1	18-2
400.00	19-9	19-11	20-0	20-1	20-2	20-3	20-5	20-6	20-7	20-8
425.00	22-4	22-5	22-7	22-8	22-10	22-11	23-0	23-2	23-3	23-4
450.00	25-1	25-2	25-4	25-5	25-7	25-8	25-10	25-11	26-1	26-2
475.00	27-11	28-1	28-3	28-4	28-6	28-8	28-9	28-11	29-1	29-2
500.00	31-0	31-1	31-3	31-5	31-7	31-9	31-11	32-1	32-3	32-4
525.00	34-2	34-4	34-6	34-8	34-10	35-0	35-2	35-4	35-6	35-8
550.00	37-6	37-8	37-11	38-1	38-3	38-5	38-8	38-10	39-0	39-2
575.00	41-0	41-3	41-5	41-8	41-10	42-1	42-3	42-6	42-8	42-11
600.00	44-8	44-11	45-2	45-4	45-7	45-10	46-1	46-3	46-6	46-9
625.00	48-6	48-9	49-0	49-3	49-6	49-9	50-0	50-3	50-6	50-9

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<div>SHEET</div> <div>58 OF 359</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH810.58
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS					

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>59 OF 359</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH810.59
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.475	14.83	2000	14.83	2000*
0	0	0	0	0.44	13.97	633	13.8	641
30	0	0	0	0.44	14.63	605	14.44	612
40	0	0	0	0.44	14.85	596	14.65	604
50	0	0	0	0.44	15.06	588	14.86	595
60	0	0	0	0.44	15.27	580	15.07	587
70	0	0	0	0.44	15.47	572	15.27	580
80	0	0	0	0.44	15.68	565	15.47	572
90	0	0	0	0.44	15.88	558	15.67	565
100	0	0	0	0.44	16.03	552	15.86	558
110	0	0	0	0.44	16.16	548	16.06	552
120	0	0	0	0.44	16.29	544	16.25	545
130	0	0	0	0.44	16.42	540	16.42	540
167	0	0	0	0.44	16.88	525	16.88	525
212	0	0	0	0.44	17.43	509	17.43	509
* Design Condition								

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B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 60 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH810.60
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS										

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.475	23.25	2000	23.25	2000*
0	0	0	0	0.44	22.39	619	22.22	624
30	0	0	0	0.44	23.05	602	22.86	607
40	0	0	0	0.44	23.26	596	23.07	601
50	0	0	0	0.44	23.48	591	23.28	596
60	0	0	0	0.44	23.69	586	23.48	591
70	0	0	0	0.44	23.9	581	23.69	586
80	0	0	0	0.44	24.11	576	23.89	581
90	0	0	0	0.44	24.32	571	24.1	576
100	0	0	0	0.44	24.49	567	24.3	571
110	0	0	0	0.44	24.62	564	24.5	567
120	0	0	0	0.44	24.75	561	24.7	562
130	0	0	0	0.44	24.89	558	24.89	558
167	0	0	0	0.44	25.38	547	25.38	547
212	0	0	0	0.44	25.95	535	25.95	535
* Design Condition								

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>61 OF 359</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH810.61</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 2000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11
100.00	0-6	0-8	0-10	0-11	1-1	1-3	1-4	1-6	1-7	1-8
125.00	0-10	1-0	1-3	1-6	1-8	1-11	2-1	2-4	2-6	2-7
150.00	1-3	1-6	1-10	2-1	2-5	2-9	3-1	3-4	3-7	3-9
175.00	1-8	2-0	2-5	2-11	3-4	3-9	4-2	4-6	4-10	5-1
200.00	2-2	2-8	3-2	3-9	4-4	4-11	5-5	5-11	6-4	6-8

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11	0-11
100.00	0-8	0-9	0-11	1-1	1-3	1-4	1-5	1-6	1-7	1-8
125.00	1-0	1-3	1-5	1-8	1-11	2-2	2-3	2-4	2-6	2-7
150.00	1-5	1-9	2-1	2-5	2-9	3-1	3-3	3-5	3-7	3-9
175.00	1-11	2-5	2-10	3-4	3-9	4-2	4-5	4-8	4-10	5-1
200.00	2-6	3-1	3-9	4-4	4-11	5-6	5-9	6-1	6-4	6-8

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2
125.00	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-9	1-10	1-10
150.00	1-9	1-10	2-0	2-1	2-2	2-4	2-5	2-6	2-7	2-8
175.00	2-5	2-7	2-8	2-10	3-0	3-2	3-3	3-5	3-6	3-8
200.00	3-1	3-4	3-6	3-9	3-11	4-1	4-3	4-5	4-7	4-9
225.00	3-11	4-3	4-6	4-8	4-11	5-2	5-5	5-7	5-10	6-0
250.00	4-11	5-2	5-6	5-10	6-1	6-5	6-8	6-11	7-2	7-5

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-2
125.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-9	1-10	1-10
150.00	1-10	2-0	2-1	2-2	2-4	2-5	2-6	2-7	2-8	2-8
175.00	2-6	2-8	2-10	3-0	3-2	3-3	3-5	3-6	3-7	3-8
200.00	3-4	3-6	3-8	3-11	4-1	4-3	4-5	4-7	4-8	4-9
225.00	4-2	4-5	4-8	4-11	5-2	5-5	5-8	5-9	5-11	6-1
250.00	5-2	5-6	5-10	6-1	6-5	6-8	6-11	7-2	7-4	7-6

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>63 OF 359</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH810.63
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-11	2-0	2-0	2-1	2-2	2-2	2-3	2-3	2-4	2-4
175.00	2-8	2-8	2-9	2-10	2-11	3-0	3-0	3-1	3-2	3-3
200.00	3-5	3-6	3-7	3-9	3-10	3-11	4-0	4-1	4-2	4-3
225.00	4-4	4-6	4-7	4-8	4-10	4-11	5-0	5-2	5-3	5-4
250.00	5-4	5-6	5-8	5-10	5-11	6-1	6-2	6-4	6-6	6-7
275.00	6-6	6-8	6-10	7-0	7-2	7-4	7-6	7-8	7-10	8-0
300.00	7-9	7-11	8-2	8-4	8-7	8-9	8-11	9-2	9-4	9-6
325.00	9-1	9-4	9-7	9-10	10-0	10-3	10-6	10-9	10-11	11-2
350.00	10-6	10-10	11-1	11-4	11-8	11-11	12-2	12-5	12-8	12-11
375.00	12-1	12-5	12-9	13-1	13-4	13-8	14-0	14-3	14-7	14-10

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-0	2-0	2-1	2-2	2-2	2-3	2-3	2-4	2-4	2-5
175.00	2-8	2-9	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-3
200.00	3-6	3-7	3-8	3-10	3-11	4-0	4-1	4-2	4-2	4-3
225.00	4-5	4-7	4-8	4-10	4-11	5-0	5-2	5-3	5-4	5-5
250.00	5-6	5-8	5-9	5-11	6-1	6-3	6-4	6-6	6-7	6-8
275.00	6-8	6-10	7-0	7-2	7-4	7-6	7-8	7-10	7-11	8-0
300.00	7-11	8-2	8-4	8-7	8-9	8-11	9-2	9-4	9-5	9-7
325.00	9-3	9-6	9-9	10-0	10-3	10-6	10-9	10-11	11-1	11-3
350.00	10-9	11-1	11-4	11-8	11-11	12-2	12-5	12-8	12-10	13-0
375.00	12-4	12-8	13-0	13-4	13-8	14-0	14-3	14-7	14-9	15-0

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>64 OF 359</div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH810.64
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-7	3-7	3-8	3-9	3-9	3-10	3-10	3-11	4-0	4-0
225.00	4-6	4-7	4-8	4-8	4-9	4-10	4-11	4-11	5-0	5-1
250.00	5-7	5-8	5-9	5-10	5-11	5-11	6-0	6-1	6-2	6-3
275.00	6-9	6-10	6-11	7-0	7-1	7-3	7-4	7-5	7-6	7-7
300.00	8-0	8-1	8-3	8-4	8-6	8-7	8-8	8-10	8-11	9-0
325.00	9-5	9-6	9-8	9-10	9-11	10-1	10-2	10-4	10-6	10-7
350.00	10-11	11-1	11-3	11-4	11-6	11-8	11-10	12-0	12-2	12-3
375.00	12-6	12-8	12-11	13-1	13-3	13-5	13-7	13-9	13-11	14-1
400.00	14-3	14-5	14-8	14-10	15-1	15-3	15-6	15-8	15-10	16-1
425.00	16-1	16-4	16-7	16-9	17-0	17-3	17-6	17-8	17-11	18-2
450.00	18-0	18-3	18-7	18-10	19-1	19-4	19-7	19-10	20-1	20-4
475.00	20-1	20-5	20-8	21-0	21-3	21-7	21-10	22-1	22-5	22-8
500.00	22-3	22-7	22-11	23-3	23-7	23-11	24-2	24-6	24-10	25-1

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-7	3-8	3-8	3-9	3-10	3-10	3-11	4-0	4-0	4-0
225.00	4-7	4-7	4-8	4-9	4-10	4-11	4-11	5-0	5-1	5-1
250.00	5-7	5-9	5-10	5-11	5-11	6-0	6-1	6-2	6-3	6-4
275.00	6-10	6-11	7-0	7-1	7-3	7-4	7-5	7-6	7-7	7-8
300.00	8-1	8-3	8-4	8-6	8-7	8-8	8-10	8-11	9-0	9-1
325.00	9-6	9-8	9-10	9-11	10-1	10-3	10-4	10-6	10-7	10-8
350.00	11-0	11-2	11-4	11-6	11-8	11-10	12-0	12-2	12-3	12-4
375.00	12-8	12-10	13-1	13-3	13-5	13-7	13-9	13-11	14-1	14-2
400.00	14-5	14-8	14-10	15-1	15-3	15-6	15-8	15-11	16-0	16-2
425.00	16-3	16-6	16-9	17-0	17-3	17-6	17-8	17-11	18-1	18-3
450.00	18-3	18-6	18-10	19-1	19-4	19-7	19-10	20-1	20-4	20-6
475.00	20-4	20-8	20-11	21-3	21-7	21-10	22-2	22-5	22-8	22-10
500.00	22-7	22-11	23-3	23-7	23-11	24-2	24-6	24-10	25-1	25-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>65 OF 359</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH810.65
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	1.475	2.95	2500	2.95	2500*
0.0	0.00	0.00	0.00	0.440	1.76	1254	1.58	1390
30.0	0.00	0.00	0.00	0.440	2.50	881	2.23	985
40.0	0.00	0.00	0.00	0.440	2.74	804	2.46	893
50.0	0.00	0.00	0.00	0.440	2.97	741	2.69	818
60.0	0.00	0.00	0.00	0.440	3.20	689	2.91	756
70.0	0.00	0.00	0.00	0.440	3.41	646	3.13	704
80.0	0.00	0.00	0.00	0.440	3.62	609	3.33	661
90.0	0.00	0.00	0.00	0.440	3.79	582	3.53	623
100.0	0.00	0.00	0.00	0.440	3.90	565	3.73	591
110.0	0.00	0.00	0.00	0.440	4.01	549	3.92	563
120.0	0.00	0.00	0.00	0.440	4.12	534	4.10	538
130.0	0.00	0.00	0.00	0.440	4.24	520	4.24	520
167.0	0.00	0.00	0.00	0.440	4.63	476	4.63	476
212.0	0.00	0.00	0.00	0.440	5.08	434	5.08	434
* Design Condition								

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>67 OF 359</h2> </div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		<div style="text-align: center;"> <h1>OH810.67</h1> </div>	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	1.475	18.54	2500	18.54	2500*
0.0	0.00	0.00	0.00	0.440	17.19	804	16.90	817
30.0	0.00	0.00	0.00	0.440	18.03	767	17.71	780
40.0	0.00	0.00	0.00	0.440	18.30	756	17.97	769
50.0	0.00	0.00	0.00	0.440	18.56	745	18.24	758
60.0	0.00	0.00	0.00	0.440	18.83	735	18.49	748
70.0	0.00	0.00	0.00	0.440	19.09	725	18.75	738
80.0	0.00	0.00	0.00	0.440	19.34	715	19.00	728
90.0	0.00	0.00	0.00	0.440	19.60	706	19.25	719
100.0	0.00	0.00	0.00	0.440	19.85	697	19.50	710
110.0	0.00	0.00	0.00	0.440	20.03	691	19.74	701
120.0	0.00	0.00	0.00	0.440	20.19	686	19.98	693
130.0	0.00	0.00	0.00	0.440	20.35	680	20.22	684
167.0	0.00	0.00	0.00	0.440	20.92	662	20.92	662
212.0	0.00	0.00	0.00	0.440	21.60	641	21.60	641
* Design Condition								

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET
69 OF 359

Indicates Latest Revision

Completely Revised



New Page

Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.69

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-9
100.00	0-4	0-5	0-6	0-7	0-9	0-10	1-0	1-2	1-3	1-5
125.00	0-6	0-7	0-9	0-11	1-1	1-4	1-7	1-9	2-0	2-2
150.00	0-9	0-11	1-1	1-4	1-7	1-11	2-3	2-7	2-11	3-2
175.00	1-0	1-3	1-6	1-9	2-2	2-7	3-1	3-6	3-11	4-3
200.00	1-4	1-7	1-11	2-4	2-10	3-5	4-0	4-7	5-1	5-7

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-8	0-9	0-9
100.00	0-5	0-6	0-7	0-9	0-11	1-1	1-2	1-3	1-4	1-5
125.00	0-7	0-9	0-11	1-2	1-5	1-8	1-10	1-11	2-1	2-2
150.00	0-10	1-1	1-4	1-8	2-0	2-5	2-7	2-9	2-11	3-2
175.00	1-2	1-6	1-10	2-4	2-9	3-3	3-7	3-9	4-0	4-3
200.00	1-6	1-11	2-5	3-0	3-8	4-3	4-8	4-11	5-3	5-7

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0
125.00	0-9	0-10	1-0	1-1	1-2	1-3	1-4	1-5	1-5	1-6
150.00	1-2	1-3	1-5	1-6	1-8	1-9	1-11	2-0	2-1	2-2
175.00	1-6	1-9	1-11	2-1	2-3	2-5	2-7	2-8	2-10	3-0
200.00	2-0	2-3	2-6	2-8	2-11	3-2	3-4	3-6	3-9	3-11
225.00	2-6	2-10	3-1	3-5	3-8	3-11	4-3	4-6	4-9	4-11
250.00	3-2	3-6	3-10	4-2	4-7	4-11	5-3	5-6	5-10	6-1

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-7	0-8	0-9	0-10	0-10	0-11	0-11	1-0	1-0
125.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-6	1-7
150.00	1-3	1-5	1-6	1-8	1-10	1-11	2-0	2-2	2-2	2-3
175.00	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-0	3-1
200.00	2-3	2-6	2-9	3-0	3-2	3-5	3-7	3-9	3-11	4-0
225.00	2-10	3-2	3-6	3-9	4-1	4-4	4-7	4-10	4-11	5-1
250.00	3-6	3-11	4-3	4-8	5-0	5-4	5-8	5-11	6-1	6-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>71 OF 359</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.71
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-5	1-6	1-6	1-7	1-8	1-9	1-9	1-10	1-11	1-11
175.00	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8
200.00	2-6	2-7	2-9	2-10	2-11	3-0	3-2	3-3	3-4	3-5
225.00	3-2	3-3	3-5	3-7	3-9	3-10	4-0	4-1	4-3	4-4
250.00	3-11	4-1	4-3	4-5	4-7	4-9	4-11	5-1	5-3	5-5
275.00	4-8	4-11	5-2	5-4	5-7	5-9	5-11	6-2	6-4	6-6
300.00	5-7	5-10	6-1	6-4	6-7	6-10	7-1	7-4	7-6	7-9
325.00	6-7	6-10	7-2	7-6	7-9	8-0	8-4	8-7	8-10	9-1
350.00	7-7	8-0	8-4	8-8	9-0	9-4	9-8	9-11	10-3	10-7
375.00	8-9	9-2	9-7	9-11	10-4	10-8	11-1	11-5	11-9	12-1

Stringing Sag Table Using Final Sag							Ruling Span:	300.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-6	1-6	1-7	1-8	1-9	1-9	1-10	1-11	1-11	2-0
175.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-8
200.00	2-7	2-9	2-10	3-0	3-1	3-2	3-3	3-5	3-6	3-6
225.00	3-4	3-6	3-7	3-9	3-11	4-0	4-2	4-3	4-5	4-6
250.00	4-1	4-3	4-5	4-8	4-10	5-0	5-2	5-4	5-5	5-6
275.00	4-11	5-2	5-5	5-7	5-10	6-0	6-3	6-5	6-7	6-8
300.00	5-11	6-2	6-5	6-8	6-11	7-2	7-5	7-7	7-10	7-11
325.00	6-11	7-3	7-6	7-10	8-1	8-5	8-8	8-11	9-2	9-4
350.00	8-0	8-5	8-9	9-1	9-5	9-9	10-1	10-5	10-7	10-10
375.00	9-2	9-7	10-0	10-5	10-10	11-2	11-7	11-11	12-2	12-5

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 72 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH810.72
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-4	4-5	4-6	4-7	4-7	4-8	4-9	4-10	4-10	4-11
275.00	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-11	6-0
300.00	6-3	6-4	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-1
325.00	7-4	7-6	7-7	7-8	7-10	7-11	8-0	8-1	8-3	8-4
350.00	8-6	8-8	8-10	8-11	9-1	9-2	9-4	9-5	9-7	9-8
375.00	9-10	9-11	10-1	10-3	10-5	10-6	10-8	10-10	10-11	11-1
400.00	11-2	11-4	11-6	11-8	11-10	12-0	12-2	12-4	12-6	12-7
425.00	12-7	12-9	13-0	13-2	13-4	13-6	13-9	13-11	14-1	14-3
450.00	14-1	14-4	14-7	14-9	15-0	15-2	15-5	15-7	15-9	16-0
475.00	15-9	16-0	16-3	16-5	16-8	16-11	17-2	17-4	17-7	17-10
500.00	17-5	17-9	18-0	18-3	18-6	18-9	19-0	19-3	19-6	19-9
525.00	19-3	19-6	19-10	20-1	20-5	20-8	20-11	21-3	21-6	21-9
550.00	21-1	21-5	21-9	22-1	22-5	22-8	23-0	23-4	23-7	23-11
575.00	23-1	23-5	23-9	24-2	24-6	24-10	25-2	25-6	25-10	26-1
600.00	25-2	25-6	25-11	26-3	26-8	27-0	27-5	27-9	28-1	28-5
625.00	27-3	27-8	28-1	28-6	28-11	29-4	29-9	30-1	30-6	30-11

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-5	4-6	4-7	4-8	4-8	4-9	4-10	4-11	4-11	5-0
275.00	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1
300.00	6-5	6-6	6-7	6-8	6-9	6-10	6-11	7-1	7-2	7-2
325.00	7-6	7-7	7-9	7-10	7-11	8-1	8-2	8-3	8-5	8-5
350.00	8-8	8-10	8-11	9-1	9-3	9-4	9-6	9-7	9-9	9-10
375.00	10-0	10-2	10-3	10-5	10-7	10-9	10-10	11-0	11-2	11-3
400.00	11-4	11-6	11-8	11-10	12-0	12-2	12-4	12-6	12-8	12-10
425.00	12-10	13-0	13-3	13-5	13-7	13-9	14-0	14-2	14-4	14-6
450.00	14-4	14-7	14-10	15-0	15-3	15-5	15-8	15-10	16-1	16-3
475.00	16-0	16-3	16-6	16-9	17-0	17-3	17-5	17-8	17-11	18-1
500.00	17-9	18-0	18-4	18-7	18-10	19-1	19-4	19-7	19-10	20-0
525.00	19-7	19-11	20-2	20-6	20-9	21-1	21-4	21-7	21-11	22-1
550.00	21-6	21-10	22-2	22-6	22-9	23-1	23-5	23-9	24-0	24-3
575.00	23-6	23-10	24-3	24-7	24-11	25-3	25-7	25-11	26-3	26-6
600.00	25-7	26-0	26-4	26-9	27-2	27-6	27-11	28-3	28-7	28-10
625.00	27-9	28-2	28-7	29-0	29-5	29-10	30-3	30-8	31-1	31-4

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div>SHEET</div> <div>74 OF 359</div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	OH810.74
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS						

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	1.475	9.86	3000	9.86	3000*
0.0	0.00	0.00	0.00	0.440	7.93	1111	7.48	1178
30.0	0.00	0.00	0.00	0.440	8.95	985	8.47	1041
40.0	0.00	0.00	0.00	0.440	9.27	951	8.78	1004
50.0	0.00	0.00	0.00	0.440	9.58	920	9.09	970
60.0	0.00	0.00	0.00	0.440	9.89	892	9.40	939
70.0	0.00	0.00	0.00	0.440	10.19	866	9.69	910
80.0	0.00	0.00	0.00	0.440	10.48	842	9.98	884
90.0	0.00	0.00	0.00	0.440	10.76	820	10.27	859
100.0	0.00	0.00	0.00	0.440	11.04	799	10.55	837
110.0	0.00	0.00	0.00	0.440	11.26	784	10.82	816
120.0	0.00	0.00	0.00	0.440	11.42	773	11.09	796
130.0	0.00	0.00	0.00	0.440	11.59	762	11.35	778
167.0	0.00	0.00	0.00	0.440	12.19	725	12.19	725
212.0	0.00	0.00	0.00	0.440	12.89	686	12.89	686
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 76 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH810.76
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS										

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	1.475	15.42	3000	15.42	3000*
0.0	0.00	0.00	0.00	0.440	13.49	1023	13.02	1059
30.0	0.00	0.00	0.00	0.440	14.50	952	14.01	985
40.0	0.00	0.00	0.00	0.440	14.82	931	14.33	963
50.0	0.00	0.00	0.00	0.440	15.14	911	14.64	942
60.0	0.00	0.00	0.00	0.440	15.46	893	14.95	923
70.0	0.00	0.00	0.00	0.440	15.76	876	15.25	905
80.0	0.00	0.00	0.00	0.440	16.07	859	15.55	887
90.0	0.00	0.00	0.00	0.440	16.37	844	15.85	871
100.0	0.00	0.00	0.00	0.440	16.66	829	16.14	855
110.0	0.00	0.00	0.00	0.440	16.93	816	16.43	841
120.0	0.00	0.00	0.00	0.440	17.11	807	16.71	827
130.0	0.00	0.00	0.00	0.440	17.29	799	16.99	813
167.0	0.00	0.00	0.00	0.440	17.94	771	17.94	771
212.0	0.00	0.00	0.00	0.440	18.70	739	18.70	739

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

Indicates Latest Revision	Completely Revised	X	New Page	Information Removed
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.77

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-5	0-6	0-7
100.00	0-3	0-3	0-4	0-4	0-5	0-7	0-8	0-10	0-11	1-1
125.00	0-5	0-5	0-6	0-7	0-8	0-10	1-1	1-3	1-6	1-9
150.00	0-7	0-7	0-9	0-10	1-0	1-3	1-6	1-10	2-2	2-6
175.00	0-9	0-10	1-0	1-2	1-4	1-8	2-1	2-6	2-11	3-5
200.00	1-0	1-1	1-3	1-6	1-10	2-2	2-8	3-3	3-10	4-5

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-7	0-8
100.00	0-3	0-4	0-5	0-6	0-8	0-9	0-11	1-0	1-1	1-2
125.00	0-5	0-6	0-7	0-9	1-0	1-3	1-5	1-7	1-8	1-9
150.00	0-7	0-9	0-11	1-1	1-5	1-9	2-1	2-3	2-5	2-7
175.00	0-10	1-0	1-3	1-6	1-11	2-5	2-10	3-0	3-3	3-6
200.00	1-1	1-4	1-7	2-0	2-6	3-1	3-8	3-11	4-3	4-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>78 OF 359</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH810.78
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10
125.00	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3
150.00	0-9	0-10	0-11	1-1	1-2	1-4	1-5	1-7	1-8	1-10
175.00	1-0	1-1	1-3	1-5	1-7	1-9	2-0	2-2	2-4	2-6
200.00	1-4	1-6	1-8	1-10	2-1	2-4	2-7	2-9	3-0	3-3
225.00	1-8	1-10	2-1	2-4	2-8	2-11	3-3	3-6	3-10	4-1
250.00	2-0	2-4	2-7	2-11	3-3	3-8	4-0	4-4	4-8	5-0

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-10	0-10
125.00	0-7	0-8	0-9	0-10	1-0	1-1	1-2	1-3	1-3	1-4
150.00	0-10	1-0	1-1	1-3	1-5	1-6	1-8	1-9	1-10	1-11
175.00	1-2	1-4	1-6	1-9	1-11	2-1	2-3	2-5	2-6	2-7
200.00	1-6	1-9	2-0	2-3	2-6	2-9	3-0	3-2	3-4	3-5
225.00	1-11	2-2	2-6	2-10	3-2	3-5	3-9	4-0	4-2	4-4
250.00	2-4	2-9	3-1	3-6	3-11	4-3	4-7	5-0	5-2	5-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 79 OF 359	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH810.79
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-0	1-1	1-2	1-2	1-3	1-4	1-5	1-6	1-7	1-7
175.00	1-4	1-5	1-6	1-8	1-9	1-10	1-11	2-0	2-1	2-2
200.00	1-9	1-11	2-0	2-2	2-3	2-5	2-6	2-8	2-9	2-10
225.00	2-3	2-5	2-7	2-9	2-10	3-0	3-2	3-4	3-6	3-7
250.00	2-9	2-11	3-2	3-4	3-7	3-9	3-11	4-1	4-3	4-6
275.00	3-4	3-7	3-10	4-1	4-3	4-6	4-9	5-0	5-2	5-5
300.00	3-11	4-3	4-6	4-10	5-1	5-5	5-8	5-11	6-2	6-5
325.00	4-7	5-0	5-4	5-8	6-0	6-4	6-8	6-11	7-3	7-7
350.00	5-4	5-9	6-2	6-7	6-11	7-4	7-8	8-1	8-5	8-9
375.00	6-2	6-7	7-1	7-6	8-0	8-5	8-10	9-3	9-8	10-1

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-1	1-2	1-3	1-4	1-5	1-6	1-6	1-7	1-8	1-8
175.00	1-6	1-7	1-8	1-10	1-11	2-0	2-1	2-2	2-3	2-4
200.00	1-11	2-1	2-3	2-4	2-6	2-7	2-9	2-10	2-11	3-0
225.00	2-5	2-8	2-10	3-0	3-2	3-3	3-5	3-7	3-9	3-10
250.00	3-0	3-3	3-5	3-8	3-10	4-1	4-3	4-5	4-7	4-8
275.00	3-8	3-11	4-2	4-5	4-8	4-11	5-2	5-4	5-7	5-8
300.00	4-4	4-8	5-0	5-3	5-7	5-10	6-1	6-5	6-7	6-9
325.00	5-1	5-6	5-10	6-2	6-6	6-10	7-2	7-6	7-9	7-11
350.00	5-11	6-4	6-9	7-2	7-7	8-0	8-4	8-8	9-0	9-3
375.00	6-10	7-4	7-9	8-3	8-8	9-2	9-7	10-0	10-4	10-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 80 OF 359	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH810.80
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-8
225.00	2-7	2-8	2-9	2-11	3-0	3-1	3-2	3-3	3-4	3-5
250.00	3-2	3-4	3-5	3-7	3-8	3-9	3-11	4-0	4-1	4-3
275.00	3-10	4-0	4-2	4-4	4-5	4-7	4-9	4-10	5-0	5-1
300.00	4-7	4-9	4-11	5-1	5-3	5-5	5-7	5-9	5-11	6-1
325.00	5-5	5-7	5-10	6-0	6-2	6-5	6-7	6-9	7-0	7-2
350.00	6-3	6-6	6-9	7-0	7-2	7-5	7-8	7-10	8-1	8-3
375.00	7-2	7-5	7-9	8-0	8-3	8-6	8-9	9-0	9-3	9-6
400.00	8-2	8-6	8-9	9-1	9-5	9-8	10-0	10-3	10-7	10-10
425.00	9-2	9-7	9-11	10-3	10-7	10-11	11-3	11-7	11-11	12-3
450.00	10-4	10-9	11-1	11-6	11-11	12-3	12-8	13-0	13-4	13-8
475.00	11-6	11-11	12-5	12-10	13-3	13-8	14-1	14-6	14-11	15-3
500.00	12-9	13-3	13-9	14-3	14-8	15-2	15-7	16-1	16-6	16-11

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-2	2-3	2-4	2-5	2-6	2-7	2-7	2-8	2-9	2-10
225.00	2-9	2-10	2-11	3-0	3-2	3-3	3-4	3-5	3-6	3-7
250.00	3-4	3-6	3-7	3-9	3-10	4-0	4-1	4-2	4-4	4-5
275.00	4-1	4-3	4-5	4-6	4-8	4-10	4-11	5-1	5-3	5-4
300.00	4-10	5-0	5-3	5-5	5-7	5-9	5-11	6-1	6-3	6-4
325.00	5-8	5-11	6-1	6-4	6-6	6-9	6-11	7-1	7-3	7-5
350.00	6-7	6-10	7-1	7-4	7-7	7-10	8-0	8-3	8-5	8-7
375.00	7-7	7-10	8-2	8-5	8-8	8-11	9-3	9-6	9-8	9-11
400.00	8-7	8-11	9-3	9-7	9-11	10-2	10-6	10-9	11-1	11-3
425.00	9-9	10-1	10-6	10-10	11-2	11-6	11-10	12-2	12-6	12-9
450.00	10-11	11-4	11-9	12-2	12-6	12-11	13-3	13-8	14-0	14-3
475.00	12-2	12-7	13-1	13-6	13-11	14-4	14-9	15-2	15-7	15-11
500.00	13-6	14-0	14-6	15-0	15-5	15-11	16-5	16-10	17-3	17-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>81 OF 359</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH810.81
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS									

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	3.748	46.20	1000	46.20	1000*
0.0	0.00	0.00	0.00	0.440	46.07	118	46.04	118
30.0	0.00	0.00	0.00	0.440	46.22	117	46.19	117
40.0	0.00	0.00	0.00	0.440	46.26	117	46.24	117
50.0	0.00	0.00	0.00	0.440	46.30	117	46.28	117
60.0	0.00	0.00	0.00	0.440	46.33	117	46.32	117
70.0	0.00	0.00	0.00	0.440	46.36	117	46.36	117
80.0	0.00	0.00	0.00	0.440	46.39	117	46.39	117
90.0	0.00	0.00	0.00	0.440	46.42	117	46.42	117
100.0	0.00	0.00	0.00	0.440	46.44	117	46.44	117
110.0	0.00	0.00	0.00	0.440	46.47	117	46.47	117
120.0	0.00	0.00	0.00	0.440	46.50	117	46.50	117
130.0	0.00	0.00	0.00	0.440	46.53	117	46.53	117
167.0	0.00	0.00	0.00	0.440	46.63	116	46.63	116
212.0	0.00	0.00	0.00	0.440	46.76	116	46.76	116

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

Completely Revised

	X
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Information Removed

SHEET
84 OF 359

DESIGN TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.84

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2- 7	2- 8	2- 8	2- 8	2- 9	2- 9	2- 9	2- 9	2- 9	2-10
100.00	4- 8	4- 9	4- 9	4-10	4-10	4-11	4-11	4-11	5- 0	5- 0
125.00	7- 4	7- 5	7- 6	7- 6	7- 7	7- 8	7- 8	7- 9	7- 9	7-10
150.00	10- 7	10- 8	10- 9	10-10	11- 0	11- 0	11- 1	11- 2	11- 3	11- 3
175.00	14- 5	14- 7	14- 8	14-10	15- 0	15- 1	15- 2	15- 3	15- 4	15- 5
200.00	18-10	19- 1	19- 3	19- 5	19- 7	19- 9	19-10	20- 0	20- 1	20- 2

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2- 8	2- 8	2- 8	2- 9	2- 9	2- 9	2- 9	2- 9	2- 9	2-10
100.00	4- 8	4- 9	4-10	4-10	4-10	4-11	4-11	4-11	5- 0	5- 0
125.00	7- 4	7- 5	7- 6	7- 7	7- 7	7- 8	7- 8	7- 9	7- 9	7-10
150.00	10- 8	10- 9	10-10	10-11	11- 0	11- 0	11- 1	11- 2	11- 3	11- 3
175.00	14- 6	14- 8	14- 9	14-11	15- 0	15- 1	15- 2	15- 3	15- 4	15- 5
200.00	19- 0	19- 2	19- 4	19- 6	19- 7	19- 9	19-10	20- 0	20- 1	20- 2

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	4-10	4-10	4-10	4-10	4-10	4-10	4-10	4-10	4-11	4-11
125.00	7- 6	7- 6	7- 7	7- 7	7- 7	7- 7	7- 7	7- 8	7- 8	7- 8
150.00	10-10	10-11	10-11	10-11	10-11	11- 0	11- 0	11- 0	11- 0	11- 0
175.00	14-10	14-10	14-11	14-11	14-11	15- 0	15- 0	15- 0	15- 0	15- 1
200.00	19- 5	19- 5	19- 6	19- 6	19- 7	19- 7	19- 8	19- 8	19- 8	19- 9
225.00	24- 8	24- 8	24- 9	24-10	24-10	24-11	24-11	25- 0	25- 0	25- 1
250.00	30- 6	30- 7	30- 8	30- 9	30-10	30-10	30-11	30-11	31- 0	31- 1

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	4-10	4-10	4-10	4-10	4-10	4-10	4-10	4-10	4-11	4-11
125.00	7- 6	7- 7	7- 7	7- 7	7- 7	7- 7	7- 7	7- 8	7- 8	7- 8
150.00	10-10	10-11	10-11	10-11	10-11	11- 0	11- 0	11- 0	11- 0	11- 0
175.00	14-10	14-10	14-11	14-11	14-11	15- 0	15- 0	15- 0	15- 0	15- 1
200.00	19- 5	19- 6	19- 6	19- 7	19- 7	19- 7	19- 8	19- 8	19- 8	19- 9
225.00	24- 8	24- 9	24- 9	24-10	24-10	24-11	24-11	25- 0	25- 0	25- 1
250.00	30- 7	30- 8	30- 9	30- 9	30-10	30-10	30-11	30-11	31- 0	31- 1

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	11- 3	11- 4	11- 4	11- 4	11- 4	11- 4	11- 4	11- 4	11- 4	11- 4
175.00	15- 5	15- 5	15- 5	15- 5	15- 5	15- 6	15- 6	15- 6	15- 6	15- 6
200.00	20- 2	20- 2	20- 3	20- 3	20- 3	20- 3	20- 3	20- 3	20- 4	20- 4
225.00	25- 7	25- 8	25- 8	25- 8	25- 9	25- 9	25- 9	25- 9	25- 9	25-10
250.00	31- 9	31- 9	31-10	31-10	31-11	31-11	31-11	31-11	32- 0	32- 0
275.00	38- 7	38- 8	38- 8	38- 8	38- 9	38- 9	38-10	38-10	38-10	38-10
300.00	46- 2	46- 2	46- 3	46- 3	46- 4	46- 4	46- 5	46- 5	46- 5	46- 6
325.00	54- 5	54- 6	54- 7	54- 7	54- 8	54- 8	54- 9	54- 9	54- 9	54-10
350.00	63- 6	63- 7	63- 7	63- 8	63- 9	63- 9	63-10	63-10	63-11	63-11
375.00	73- 4	73- 5	73- 6	73- 6	73- 7	73- 8	73- 8	73- 9	73-10	73-10

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	11- 3	11- 4	11- 4	11- 4	11- 4	11- 4	11- 4	11- 4	11- 4	11- 4
175.00	15- 5	15- 5	15- 5	15- 5	15- 5	15- 6	15- 6	15- 6	15- 6	15- 6
200.00	20- 2	20- 2	20- 3	20- 3	20- 3	20- 3	20- 3	20- 3	20- 4	20- 4
225.00	25- 8	25- 8	25- 8	25- 8	25- 9	25- 9	25- 9	25- 9	25- 9	25-10
250.00	31- 9	31-10	31-10	31-10	31-11	31-11	31-11	31-11	32- 0	32- 0
275.00	38- 7	38- 8	38- 8	38- 9	38- 9	38- 9	38-10	38-10	38-10	38-10
300.00	46- 2	46- 3	46- 3	46- 4	46- 4	46- 4	46- 5	46- 5	46- 5	46- 6
325.00	54- 6	54- 6	54- 7	54- 7	54- 8	54- 8	54- 9	54- 9	54- 9	54-10
350.00	63- 6	63- 7	63- 8	63- 8	63- 9	63- 9	63-10	63-10	63-11	63-11
375.00	73- 4	73- 5	73- 6	73- 7	73- 7	73- 8	73- 8	73- 9	73-10	73-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div>SHEET</div> <div>87 OF 359</div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	OH810.87
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS						

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	3.748	12.70	1500	12.70	1500*
0.0	0.00	0.00	0.00	0.440	12.45	179	12.37	181
30.0	0.00	0.00	0.00	0.440	12.65	177	12.60	177
40.0	0.00	0.00	0.00	0.440	12.71	176	12.67	176
50.0	0.00	0.00	0.00	0.440	12.77	175	12.73	176
60.0	0.00	0.00	0.00	0.440	12.82	174	12.79	175
70.0	0.00	0.00	0.00	0.440	12.86	174	12.85	174
80.0	0.00	0.00	0.00	0.440	12.90	173	12.90	173
90.0	0.00	0.00	0.00	0.440	12.95	173	12.95	173
100.0	0.00	0.00	0.00	0.440	12.99	172	12.99	172
110.0	0.00	0.00	0.00	0.440	13.03	172	13.03	172
120.0	0.00	0.00	0.00	0.440	13.07	171	13.07	171
130.0	0.00	0.00	0.00	0.440	13.11	171	13.11	171
167.0	0.00	0.00	0.00	0.440	13.27	169	13.27	169
212.0	0.00	0.00	0.00	0.440	13.45	167	13.45	167
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 88 OF 359		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH810.88
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS											

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	3.748	87.81	1500	87.81	1500*
0.0	0.00	0.00	0.00	0.440	87.56	176	87.49	177
30.0	0.00	0.00	0.00	0.440	87.76	176	87.72	176
40.0	0.00	0.00	0.00	0.440	87.83	176	87.78	176
50.0	0.00	0.00	0.00	0.440	87.89	176	87.84	176
60.0	0.00	0.00	0.00	0.440	87.93	176	87.90	176
70.0	0.00	0.00	0.00	0.440	87.97	176	87.97	176
80.0	0.00	0.00	0.00	0.440	88.02	176	88.02	176
90.0	0.00	0.00	0.00	0.440	88.06	176	88.06	176
100.0	0.00	0.00	0.00	0.440	88.10	176	88.10	176
110.0	0.00	0.00	0.00	0.440	88.14	176	88.14	176
120.0	0.00	0.00	0.00	0.440	88.19	175	88.19	175
130.0	0.00	0.00	0.00	0.440	88.23	175	88.23	175
167.0	0.00	0.00	0.00	0.440	88.39	175	88.39	175
212.0	0.00	0.00	0.00	0.440	88.58	175	88.58	175

* Design Condition

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<div style="text-align: center;"> <p>SHEET</p> <p>90 OF 359</p> </div>	Indicates Latest Revision	Completely Revised	New Page	Information Removed	<div style="text-align: center;"> <p>OH810.90</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 1500 LBS</p> </div>				

Completely Revised

 New Page

OH810.90

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-8	1-9	1-9	1-9	1-10	1-10	1-10	1-11	1-11	1-11
100.00	3-0	3-1	3-1	3-2	3-3	3-3	3-4	3-4	3-5	3-5
125.00	4-8	4-9	4-10	4-11	5-1	5-2	5-3	5-3	5-4	5-5
150.00	6-8	6-10	7-0	7-2	7-3	7-5	7-6	7-7	7-8	7-9
175.00	9-1	9-4	9-6	9-9	9-11	10-1	10-3	10-4	10-6	10-7
200.00	11-11	12-3	12-6	12-9	13-0	13-3	13-5	13-7	13-9	13-10

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-8	1-9	1-9	1-10	1-10	1-10	1-10	1-11	1-11	1-11
100.00	3-0	3-1	3-2	3-3	3-3	3-4	3-4	3-4	3-5	3-5
125.00	4-9	4-10	4-11	5-0	5-1	5-2	5-3	5-3	5-4	5-5
150.00	6-10	7-0	7-1	7-3	7-4	7-5	7-6	7-7	7-8	7-9
175.00	9-3	9-6	9-8	9-10	10-0	10-1	10-3	10-4	10-6	10-7
200.00	12-2	12-5	12-8	12-11	13-1	13-3	13-5	13-7	13-9	13-10

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SHEET 91 OF 359	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH810.91
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-1	3-2	3-2	3-2	3-2	3-2	3-3	3-3	3-3	3-3
125.00	4-11	4-11	4-11	4-11	5-0	5-0	5-0	5-0	5-1	5-1
150.00	7-0	7-1	7-1	7-2	7-2	7-3	7-3	7-3	7-3	7-4
175.00	9-7	9-8	9-8	9-9	9-9	9-10	9-10	9-11	9-11	10-0
200.00	12-6	12-7	12-8	12-9	12-9	12-10	12-11	12-11	13-0	13-0
225.00	15-10	16-0	16-1	16-2	16-3	16-3	16-4	16-5	16-6	16-6
250.00	19-8	19-9	19-10	19-11	20-1	20-2	20-3	20-3	20-4	20-5

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-2	3-2	3-2	3-2	3-2	3-2	3-3	3-3	3-3	3-3
125.00	4-11	4-11	4-11	5-0	5-0	5-0	5-0	5-0	5-1	5-1
150.00	7-1	7-1	7-2	7-2	7-2	7-3	7-3	7-3	7-3	7-4
175.00	9-7	9-8	9-9	9-9	9-10	9-10	9-10	9-11	9-11	10-0
200.00	12-7	12-8	12-9	12-9	12-10	12-10	12-11	12-11	13-0	13-0
225.00	15-11	16-0	16-1	16-2	16-3	16-4	16-4	16-5	16-6	16-6
250.00	19-9	19-10	19-11	20-0	20-1	20-2	20-3	20-3	20-4	20-5

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 92 OF 359	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH810.92
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	7-2	7-2	7-3	7-3	7-3	7-3	7-3	7-3	7-4	7-4
175.00	9-10	9-10	9-10	9-10	9-11	9-11	9-11	9-11	9-11	10-0
200.00	12-10	12-10	12-10	12-11	12-11	12-11	13-0	13-0	13-0	13-0
225.00	16-3	16-3	16-4	16-4	16-5	16-5	16-5	16-6	16-6	16-6
250.00	20-1	20-1	20-2	20-3	20-3	20-4	20-4	20-4	20-5	20-5
275.00	24-4	24-5	24-5	24-6	24-7	24-7	24-8	24-8	24-9	24-9
300.00	29-0	29-1	29-2	29-3	29-3	29-4	29-5	29-5	29-6	29-6
325.00	34-1	34-2	34-3	34-4	34-5	34-6	34-7	34-7	34-8	34-9
350.00	39-8	39-9	39-10	39-11	40-0	40-1	40-2	40-3	40-4	40-4
375.00	45-8	45-9	45-10	46-0	46-1	46-2	46-3	46-4	46-5	46-5

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	7-2	7-3	7-3	7-3	7-3	7-3	7-3	7-3	7-4	7-4
175.00	9-10	9-10	9-10	9-10	9-11	9-11	9-11	9-11	9-11	10-0
200.00	12-10	12-10	12-11	12-11	12-11	12-11	13-0	13-0	13-0	13-0
225.00	16-3	16-4	16-4	16-4	16-5	16-5	16-5	16-6	16-6	16-6
250.00	20-1	20-2	20-2	20-3	20-3	20-4	20-4	20-4	20-5	20-5
275.00	24-5	24-5	24-6	24-6	24-7	24-7	24-8	24-8	24-9	24-9
300.00	29-1	29-2	29-2	29-3	29-4	29-4	29-5	29-5	29-6	29-6
325.00	34-2	34-3	34-4	34-5	34-6	34-6	34-7	34-7	34-8	34-9
350.00	39-9	39-10	39-11	40-0	40-1	40-1	40-2	40-3	40-4	40-4
375.00	45-9	45-10	45-11	46-0	46-1	46-2	46-3	46-4	46-5	46-5

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C						F						
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 93 OF 359		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH810.93	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	13-2	13-2	13-2	13-2	13-2	13-2	13-3	13-3	13-3	13-3
225.00	16-8	16-8	16-8	16-8	16-9	16-9	16-9	16-9	16-9	16-10
250.00	20-7	20-7	20-8	20-8	20-8	20-8	20-9	20-9	20-9	20-9
275.00	24-11	25-0	25-0	25-0	25-1	25-1	25-1	25-2	25-2	25-2
300.00	29-9	29-10	29-10	29-10	29-11	29-11	29-11	30-0	30-0	30-0
325.00	35-0	35-0	35-1	35-1	35-2	35-2	35-3	35-3	35-3	35-4
350.00	40-8	40-9	40-9	40-10	40-11	40-11	41-0	41-0	41-0	41-1
375.00	46-10	46-11	46-11	47-0	47-1	47-1	47-2	47-2	47-3	47-3
400.00	53-5	53-6	53-7	53-7	53-8	53-9	53-10	53-10	53-11	53-11
425.00	60-6	60-7	60-8	60-8	60-9	60-10	60-11	60-11	61-0	61-1
450.00	68-0	68-1	68-2	68-3	68-4	68-5	68-6	68-7	68-7	68-8
475.00	76-0	76-2	76-3	76-4	76-5	76-6	76-7	76-8	76-8	76-9
500.00	84-6	84-8	84-9	84-10	84-11	85-1	85-2	85-3	85-3	85-4

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	13-2	13-2	13-2	13-2	13-2	13-2	13-3	13-3	13-3	13-3
225.00	16-8	16-8	16-8	16-9	16-9	16-9	16-9	16-9	16-9	16-10
250.00	20-7	20-8	20-8	20-8	20-8	20-8	20-9	20-9	20-9	20-9
275.00	25-0	25-0	25-0	25-1	25-1	25-1	25-1	25-2	25-2	25-2
300.00	29-9	29-10	29-10	29-11	29-11	29-11	29-11	30-0	30-0	30-0
325.00	35-0	35-1	35-1	35-2	35-2	35-2	35-3	35-3	35-3	35-4
350.00	40-9	40-9	40-10	40-10	40-11	40-11	41-0	41-0	41-0	41-1
375.00	46-10	46-11	47-0	47-0	47-1	47-1	47-2	47-2	47-3	47-3
400.00	53-6	53-6	53-7	53-8	53-8	53-9	53-10	53-10	53-11	53-11
425.00	60-7	60-7	60-8	60-9	60-10	60-10	60-11	60-11	61-0	61-1
450.00	68-1	68-2	68-3	68-4	68-5	68-5	68-6	68-7	68-7	68-8
475.00	76-1	76-2	76-4	76-5	76-5	76-6	76-7	76-8	76-8	76-9
500.00	84-7	84-9	84-10	84-11	85-0	85-1	85-2	85-3	85-3	85-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 94 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.94
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	3.748	62.21	2000	62.21	2000*
0.0	0.00	0.00	0.00	0.440	61.79	236	61.66	237
30.0	0.00	0.00	0.00	0.440	62.04	235	61.96	236
40.0	0.00	0.00	0.00	0.440	62.13	235	62.04	235
50.0	0.00	0.00	0.00	0.440	62.20	235	62.12	235
60.0	0.00	0.00	0.00	0.440	62.26	235	62.21	235
70.0	0.00	0.00	0.00	0.440	62.32	234	62.29	235
80.0	0.00	0.00	0.00	0.440	62.38	234	62.37	234
90.0	0.00	0.00	0.00	0.440	62.44	234	62.44	234
100.0	0.00	0.00	0.00	0.440	62.49	234	62.49	234
110.0	0.00	0.00	0.00	0.440	62.55	234	62.55	234
120.0	0.00	0.00	0.00	0.440	62.61	233	62.61	233
130.0	0.00	0.00	0.00	0.440	62.66	233	62.66	233
167.0	0.00	0.00	0.00	0.440	62.87	233	62.87	233
212.0	0.00	0.00	0.00	0.440	63.13	232	63.13	232
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div>SHEET</div> <div>98 OF 359</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div>OH810.98</div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-1	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6
100.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-7	2-8
125.00	3-1	3-3	3-5	3-6	3-8	3-9	3-11	4-0	4-1	4-2
150.00	4-6	4-8	4-11	5-1	5-3	5-6	5-8	5-9	5-10	6-0
175.00	6-1	6-5	6-8	6-11	7-2	7-5	7-8	7-10	8-0	8-2
200.00	8-0	8-4	8-9	9-1	9-5	9-9	10-0	10-3	10-5	10-8

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-5	1-6	1-6
100.00	2-1	2-2	2-3	2-4	2-5	2-5	2-6	2-7	2-7	2-8
125.00	3-3	3-5	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2
150.00	4-8	4-11	5-1	5-3	5-5	5-6	5-8	5-9	5-10	6-0
175.00	6-5	6-8	6-11	7-2	7-4	7-6	7-8	7-10	8-0	8-2
200.00	8-4	8-9	9-1	9-5	9-7	9-10	10-0	10-3	10-5	10-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 99 OF 359	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH810.99
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-3	2-4	2-4	2-4	2-4	2-5	2-5	2-5	2-5	2-5
125.00	3-7	3-7	3-7	3-8	3-8	3-9	3-9	3-9	3-10	3-10
150.00	5-1	5-2	5-3	5-3	5-4	5-4	5-5	5-5	5-6	5-6
175.00	7-0	7-0	7-1	7-2	7-3	7-4	7-4	7-5	7-5	7-6
200.00	9-1	9-2	9-3	9-4	9-5	9-6	9-7	9-8	9-9	9-9
225.00	11-6	11-8	11-9	11-10	12-0	12-1	12-2	12-3	12-4	12-5
250.00	14-3	14-5	14-6	14-8	14-10	14-11	15-1	15-2	15-3	15-4

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-4	2-4	2-4	2-4	2-4	2-5	2-5	2-5	2-5	2-5
125.00	3-7	3-7	3-8	3-8	3-8	3-9	3-9	3-9	3-10	3-10
150.00	5-2	5-3	5-3	5-4	5-4	5-4	5-5	5-5	5-6	5-6
175.00	7-0	7-1	7-2	7-3	7-3	7-4	7-4	7-5	7-5	7-6
200.00	9-2	9-3	9-4	9-5	9-6	9-7	9-7	9-8	9-9	9-9
225.00	11-8	11-9	11-10	12-0	12-0	12-1	12-2	12-3	12-4	12-5
250.00	14-5	14-6	14-8	14-9	14-11	15-0	15-1	15-2	15-3	15-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div>SHEET</div> <div>100 OF 359</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH810.100
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-3	5-3	5-4	5-4	5-4	5-4	5-5	5-5	5-5	5-5
175.00	7-2	7-2	7-3	7-3	7-3	7-4	7-4	7-4	7-5	7-5
200.00	9-5	9-5	9-5	9-6	9-6	9-7	9-7	9-8	9-8	9-8
225.00	11-11	11-11	12-0	12-0	12-1	12-1	12-2	12-2	12-3	12-3
250.00	14-8	14-9	14-10	14-10	14-11	15-0	15-0	15-1	15-1	15-2
275.00	17-9	17-10	17-11	18-0	18-1	18-2	18-2	18-3	18-4	18-4
300.00	21-2	21-3	21-4	21-5	21-6	21-7	21-8	21-9	21-10	21-10
325.00	24-11	25-0	25-1	25-2	25-3	25-5	25-6	25-7	25-7	25-8
350.00	28-11	29-0	29-2	29-3	29-4	29-6	29-7	29-8	29-9	29-10
375.00	33-2	33-4	33-6	33-7	33-9	33-11	34-0	34-1	34-2	34-3

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-3	5-4	5-4	5-4	5-4	5-5	5-5	5-5	5-5	5-5
175.00	7-2	7-3	7-3	7-3	7-4	7-4	7-4	7-4	7-5	7-5
200.00	9-5	9-5	9-6	9-6	9-7	9-7	9-7	9-8	9-8	9-8
225.00	11-11	12-0	12-0	12-1	12-1	12-2	12-2	12-2	12-3	12-3
250.00	14-9	14-10	14-10	14-11	14-11	15-0	15-0	15-1	15-1	15-2
275.00	17-10	17-11	18-0	18-1	18-1	18-2	18-2	18-3	18-4	18-4
300.00	21-3	21-4	21-5	21-6	21-7	21-8	21-8	21-9	21-10	21-10
325.00	25-0	25-1	25-2	25-3	25-4	25-5	25-6	25-7	25-7	25-8
350.00	29-0	29-2	29-3	29-4	29-5	29-6	29-7	29-8	29-9	29-10
375.00	33-4	33-6	33-7	33-9	33-10	33-11	34-0	34-1	34-2	34-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 101 OF 359		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH810.101
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	9-7	9-7	9-7	9-7	9-8	9-8	9-8	9-8	9-8	9-9
225.00	12-1	12-2	12-2	12-2	12-2	12-3	12-3	12-3	12-4	12-4
250.00	14-11	15-0	15-0	15-1	15-1	15-1	15-2	15-2	15-2	15-3
275.00	18-1	18-2	18-2	18-3	18-3	18-4	18-4	18-4	18-5	18-5
300.00	21-7	21-8	21-8	21-9	21-9	21-10	21-10	21-11	21-11	21-11
325.00	25-4	25-5	25-6	25-6	25-7	25-8	25-8	25-9	25-9	25-10
350.00	29-5	29-6	29-7	29-8	29-8	29-9	29-10	29-10	29-11	30-0
375.00	33-10	33-11	34-0	34-1	34-2	34-3	34-3	34-4	34-5	34-5
400.00	38-7	38-8	38-9	38-10	38-11	39-0	39-1	39-2	39-2	39-3
425.00	43-7	43-8	43-10	43-11	44-0	44-1	44-2	44-3	44-4	44-5
450.00	48-11	49-1	49-2	49-3	49-5	49-6	49-7	49-8	49-9	49-10
475.00	54-8	54-9	54-11	55-0	55-2	55-3	55-4	55-6	55-7	55-8
500.00	60-8	60-10	60-11	61-1	61-2	61-4	61-6	61-7	61-8	61-9

Stringing Sag Table Using Final Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	9-7	9-7	9-7	9-8	9-8	9-8	9-8	9-8	9-8	9-9
225.00	12-2	12-2	12-2	12-2	12-3	12-3	12-3	12-3	12-4	12-4
250.00	15-0	15-0	15-1	15-1	15-1	15-2	15-2	15-2	15-2	15-3
275.00	18-2	18-2	18-3	18-3	18-4	18-4	18-4	18-4	18-5	18-5
300.00	21-8	21-8	21-9	21-9	21-10	21-10	21-10	21-11	21-11	21-11
325.00	25-5	25-6	25-6	25-7	25-7	25-8	25-8	25-9	25-9	25-10
350.00	29-6	29-7	29-8	29-8	29-9	29-9	29-10	29-10	29-11	30-0
375.00	33-11	34-0	34-1	34-2	34-2	34-3	34-3	34-4	34-5	34-5
400.00	38-8	38-9	38-10	38-11	38-11	39-0	39-1	39-2	39-2	39-3
425.00	43-8	43-10	43-11	44-0	44-1	44-1	44-2	44-3	44-4	44-5
450.00	49-1	49-2	49-4	49-5	49-6	49-6	49-7	49-8	49-9	49-10
475.00	54-9	54-11	55-0	55-2	55-3	55-4	55-5	55-6	55-7	55-8
500.00	60-10	60-11	61-1	61-2	61-3	61-5	61-6	61-7	61-8	61-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 102 OF 359	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH810.102
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS					

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 104 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.104
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	3.748	30.69	2500	30.69	2500*
0.0	0.00	0.00	0.00	0.440	30.02	300	29.84	301
30.0	0.00	0.00	0.00	0.440	30.35	297	30.20	298
40.0	0.00	0.00	0.00	0.440	30.46	296	30.31	297
50.0	0.00	0.00	0.00	0.440	30.54	295	30.41	296
60.0	0.00	0.00	0.00	0.440	30.62	294	30.52	295
70.0	0.00	0.00	0.00	0.440	30.69	294	30.62	294
80.0	0.00	0.00	0.00	0.440	30.76	293	30.73	293
90.0	0.00	0.00	0.00	0.440	30.83	292	30.83	292
100.0	0.00	0.00	0.00	0.440	30.91	292	30.91	292
110.0	0.00	0.00	0.00	0.440	30.98	291	30.98	291
120.0	0.00	0.00	0.00	0.440	31.05	290	31.05	290
130.0	0.00	0.00	0.00	0.440	31.12	290	31.12	290
167.0	0.00	0.00	0.00	0.440	31.38	287	31.38	287
212.0	0.00	0.00	0.00	0.440	31.69	285	31.69	285

* Design Condition

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[illegible]

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	3.748	48.63	2500	48.63	2500*
0.0	0.00	0.00	0.00	0.440	47.96	297	47.79	298
30.0	0.00	0.00	0.00	0.440	48.29	295	48.14	296
40.0	0.00	0.00	0.00	0.440	48.40	295	48.25	296
50.0	0.00	0.00	0.00	0.440	48.48	294	48.35	295
60.0	0.00	0.00	0.00	0.440	48.55	294	48.46	294
70.0	0.00	0.00	0.00	0.440	48.63	294	48.56	294
80.0	0.00	0.00	0.00	0.440	48.70	293	48.67	293
90.0	0.00	0.00	0.00	0.440	48.77	293	48.77	293
100.0	0.00	0.00	0.00	0.440	48.84	292	48.84	292
110.0	0.00	0.00	0.00	0.440	48.92	292	48.92	292
120.0	0.00	0.00	0.00	0.440	48.99	291	48.99	291
130.0	0.00	0.00	0.00	0.440	49.06	291	49.06	291
167.0	0.00	0.00	0.00	0.440	49.32	290	49.32	290
212.0	0.00	0.00	0.00	0.440	49.64	288	49.64	288
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 106 OF 359		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH810.106
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-2	1-2
100.00	1-3	1-4	1-6	1-7	1-8	1-10	1-11	2-0	2-1	2-1
125.00	1-11	2-1	2-4	2-6	2-8	2-10	3-0	3-2	3-3	3-4
150.00	2-9	3-1	3-4	3-7	3-10	4-1	4-4	4-6	4-8	4-9
175.00	3-9	4-2	4-6	4-11	5-3	5-7	5-10	6-2	6-4	6-6
200.00	4-11	5-5	5-11	6-5	6-10	7-3	7-8	8-0	8-3	8-6

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-9	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-2
100.00	1-5	1-6	1-8	1-9	1-10	1-10	1-11	2-0	2-1	2-1
125.00	2-2	2-5	2-7	2-9	2-10	2-11	3-0	3-2	3-3	3-4
150.00	3-2	3-5	3-8	3-11	4-1	4-3	4-4	4-6	4-8	4-9
175.00	4-3	4-8	5-0	5-4	5-6	5-9	5-11	6-2	6-4	6-6
200.00	5-7	6-1	6-7	7-0	7-3	7-6	7-9	8-0	8-3	8-6

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 107 OF 359	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH810.107
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-9	1-9	1-9	1-10	1-10	1-10	1-11	1-11	1-11	1-11
125.00	2-8	2-9	2-9	2-10	2-10	2-11	2-11	3-0	3-0	3-1
150.00	3-11	4-0	4-0	4-1	4-2	4-2	4-3	4-4	4-4	4-5
175.00	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-10	5-11	6-0
200.00	6-11	7-1	7-2	7-3	7-4	7-6	7-7	7-8	7-9	7-10
225.00	8-9	8-11	9-1	9-2	9-4	9-6	9-7	9-9	9-10	9-11
250.00	10-10	11-0	11-2	11-4	11-6	11-8	11-10	12-0	12-1	12-3

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-9	1-10	1-10	1-10	1-10	1-11	1-11	1-11	1-11	1-11
125.00	2-9	2-10	2-10	2-11	2-11	2-11	3-0	3-0	3-0	3-1
150.00	4-0	4-1	4-1	4-2	4-2	4-3	4-3	4-4	4-4	4-5
175.00	5-5	5-6	5-7	5-8	5-9	5-9	5-10	5-10	5-11	6-0
200.00	7-1	7-2	7-4	7-5	7-6	7-6	7-7	7-8	7-9	7-10
225.00	9-0	9-1	9-3	9-4	9-5	9-6	9-8	9-9	9-10	9-11
250.00	11-1	11-3	11-5	11-7	11-8	11-9	11-11	12-0	12-1	12-3

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SHEET 108 OF 359	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH810.108
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-1	4-2	4-2	4-2	4-3	4-3	4-3	4-4	4-4	4-4
175.00	5-7	5-8	5-8	5-8	5-9	5-9	5-10	5-10	5-10	5-11
200.00	7-4	7-4	7-5	7-5	7-6	7-7	7-7	7-8	7-8	7-8
225.00	9-3	9-4	9-5	9-5	9-6	9-7	9-7	9-8	9-9	9-9
250.00	11-5	11-6	11-7	11-8	11-9	11-10	11-10	11-11	12-0	12-1
275.00	13-10	13-11	14-0	14-1	14-2	14-3	14-5	14-6	14-6	14-7
300.00	16-6	16-7	16-8	16-10	16-11	17-0	17-1	17-3	17-4	17-4
325.00	19-4	19-6	19-7	19-9	19-10	20-0	20-1	20-3	20-4	20-5
350.00	22-6	22-7	22-9	22-11	23-1	23-2	23-4	23-6	23-7	23-8
375.00	25-10	26-0	26-2	26-4	26-6	26-8	26-10	27-0	27-1	27-2

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-2	4-2	4-2	4-3	4-3	4-3	4-3	4-4	4-4	4-4
175.00	5-8	5-8	5-9	5-9	5-9	5-10	5-10	5-10	5-10	5-11
200.00	7-5	7-5	7-6	7-6	7-6	7-7	7-7	7-8	7-8	7-8
225.00	9-4	9-5	9-6	9-6	9-7	9-7	9-8	9-8	9-9	9-9
250.00	11-6	11-7	11-8	11-9	11-10	11-10	11-11	11-11	12-0	12-1
275.00	14-0	14-1	14-2	14-3	14-3	14-4	14-5	14-6	14-6	14-7
300.00	16-8	16-9	16-10	16-11	17-0	17-1	17-2	17-3	17-4	17-4
325.00	19-6	19-8	19-9	19-11	20-0	20-1	20-2	20-3	20-4	20-5
350.00	22-8	22-10	23-0	23-1	23-2	23-3	23-5	23-6	23-7	23-8
375.00	26-1	26-3	26-5	26-6	26-8	26-9	26-10	27-0	27-1	27-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div>SHEET</div> <div>109 OF 359</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH810.109
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-6	7-6	7-6	7-7	7-7	7-7	7-8	7-8	7-8	7-8
225.00	9-6	9-6	9-6	9-7	9-7	9-8	9-8	9-8	9-9	9-9
250.00	11-8	11-9	11-9	11-10	11-10	11-11	11-11	12-0	12-0	12-1
275.00	14-2	14-3	14-3	14-4	14-4	14-5	14-6	14-6	14-7	14-7
300.00	16-11	16-11	17-0	17-1	17-1	17-2	17-3	17-3	17-4	17-4
325.00	19-10	19-11	19-11	20-0	20-1	20-2	20-3	20-4	20-4	20-5
350.00	23-0	23-1	23-2	23-3	23-4	23-5	23-6	23-7	23-7	23-8
375.00	26-5	26-6	26-7	26-8	26-10	26-11	27-0	27-1	27-2	27-2
400.00	30-1	30-2	30-4	30-5	30-6	30-7	30-9	30-10	30-11	31-0
425.00	34-0	34-2	34-3	34-4	34-6	34-7	34-9	34-10	34-11	35-0
450.00	38-2	38-4	38-5	38-7	38-8	38-10	39-0	39-1	39-2	39-3
475.00	42-7	42-9	42-10	43-0	43-2	43-4	43-6	43-7	43-9	43-10
500.00	47-3	47-5	47-7	47-9	47-11	48-1	48-3	48-5	48-6	48-7

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-6	7-7	7-7	7-7	7-7	7-8	7-8	7-8	7-8	7-8
225.00	9-6	9-7	9-7	9-7	9-8	9-8	9-8	9-8	9-9	9-9
250.00	11-9	11-10	11-10	11-11	11-11	11-11	12-0	12-0	12-0	12-1
275.00	14-3	14-3	14-4	14-5	14-5	14-5	14-6	14-6	14-7	14-7
300.00	16-11	17-0	17-1	17-1	17-2	17-2	17-3	17-3	17-4	17-4
325.00	19-11	20-0	20-1	20-1	20-2	20-2	20-3	20-4	20-4	20-5
350.00	23-1	23-2	23-3	23-4	23-5	23-5	23-6	23-7	23-7	23-8
375.00	26-7	26-8	26-9	26-10	26-11	26-11	27-0	27-1	27-2	27-2
400.00	30-3	30-4	30-6	30-7	30-7	30-8	30-9	30-10	30-11	31-0
425.00	34-2	34-4	34-5	34-6	34-7	34-8	34-9	34-10	34-11	35-0
450.00	38-4	38-6	38-8	38-9	38-10	38-11	39-0	39-1	39-2	39-3
475.00	42-9	42-11	43-1	43-2	43-4	43-5	43-6	43-7	43-9	43-10
500.00	47-5	47-7	47-10	47-11	48-1	48-2	48-3	48-5	48-6	48-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 110 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.110
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	3.748	25.39	3000	25.39	3000*
0.0	0.00	0.00	0.00	0.440	24.42	366	24.17	369
30.0	0.00	0.00	0.00	0.440	24.82	360	24.59	363
40.0	0.00	0.00	0.00	0.440	24.95	358	24.72	361
50.0	0.00	0.00	0.00	0.440	25.04	357	24.84	360
60.0	0.00	0.00	0.00	0.440	25.12	356	24.97	358
70.0	0.00	0.00	0.00	0.440	25.21	355	25.10	356
80.0	0.00	0.00	0.00	0.440	25.30	353	25.22	354
90.0	0.00	0.00	0.00	0.440	25.38	352	25.35	353
100.0	0.00	0.00	0.00	0.440	25.47	351	25.47	351
110.0	0.00	0.00	0.00	0.440	25.56	350	25.56	350
120.0	0.00	0.00	0.00	0.440	25.64	349	25.64	349
130.0	0.00	0.00	0.00	0.440	25.73	348	25.73	348
167.0	0.00	0.00	0.00	0.440	26.03	344	26.03	344
212.0	0.00	0.00	0.00	0.440	26.41	339	26.41	339

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>113 OF 359</p> </div>	Indicates Latest Revision	Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH810.113</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 3000 LBS</p> </div>					

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	3.748	40.05	3000	40.05	3000*
0.0	0.00	0.00	0.00	0.440	39.08	360	38.84	363
30.0	0.00	0.00	0.00	0.440	39.48	357	39.25	359
40.0	0.00	0.00	0.00	0.440	39.61	356	39.38	358
50.0	0.00	0.00	0.00	0.440	39.69	355	39.50	357
60.0	0.00	0.00	0.00	0.440	39.78	354	39.63	356
70.0	0.00	0.00	0.00	0.440	39.87	354	39.75	355
80.0	0.00	0.00	0.00	0.440	39.95	353	39.88	354
90.0	0.00	0.00	0.00	0.440	40.04	352	40.01	353
100.0	0.00	0.00	0.00	0.440	40.13	351	40.13	351
110.0	0.00	0.00	0.00	0.440	40.21	351	40.21	351
120.0	0.00	0.00	0.00	0.440	40.30	350	40.30	350
130.0	0.00	0.00	0.00	0.440	40.38	349	40.38	349
167.0	0.00	0.00	0.00	0.440	40.70	347	40.70	347
212.0	0.00	0.00	0.00	0.440	41.07	344	41.07	344
* Design Condition								

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>114 OF 359</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH810.114</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 3000 LBS</p> </div>					

Completely Revised

Completely Revised

	X
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New Page

Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.114

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-9	0-10	0-11	0-11
100.00	0-7	0-9	0-10	1-0	1-2	1-3	1-5	1-6	1-8	1-8
125.00	0-11	1-1	1-4	1-7	1-9	2-0	2-2	2-5	2-7	2-8
150.00	1-4	1-7	1-11	2-3	2-7	2-10	3-2	3-5	3-8	3-10
175.00	1-9	2-2	2-7	3-1	3-6	3-11	4-4	4-8	5-0	5-2
200.00	2-4	2-10	3-5	4-0	4-7	5-1	5-7	6-1	6-6	6-10

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-10	0-11	0-11
100.00	0-10	0-11	1-1	1-3	1-4	1-5	1-6	1-7	1-8	1-8
125.00	1-3	1-6	1-9	1-11	2-1	2-2	2-4	2-5	2-7	2-8
150.00	1-10	2-2	2-6	2-10	3-0	3-2	3-4	3-6	3-8	3-10
175.00	2-5	2-11	3-5	3-10	4-1	4-4	4-7	4-9	5-0	5-2
200.00	3-2	3-10	4-5	5-0	5-4	5-8	5-11	6-3	6-6	6-10

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 115 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.115
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-4	1-4	1-5	1-5	1-6	1-6	1-6	1-7	1-7	1-7
125.00	2-1	2-2	2-2	2-3	2-3	2-4	2-5	2-5	2-6	2-6
150.00	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-6	3-7	3-7
175.00	4-1	4-2	4-3	4-5	4-6	4-7	4-8	4-9	4-10	4-11
200.00	5-4	5-5	5-7	5-9	5-10	6-0	6-1	6-3	6-4	6-5
225.00	6-9	6-11	7-1	7-3	7-5	7-7	7-9	7-11	8-0	8-2
250.00	8-3	8-6	8-9	8-11	9-2	9-4	9-7	9-9	9-11	10-1

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-5	1-5	1-5	1-6	1-6	1-6	1-7	1-7	1-7	1-7
125.00	2-2	2-3	2-3	2-4	2-4	2-5	2-5	2-5	2-6	2-6
150.00	3-1	3-2	3-3	3-4	3-5	3-5	3-6	3-6	3-7	3-7
175.00	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-10	4-11
200.00	5-7	5-8	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5
225.00	7-0	7-2	7-4	7-6	7-7	7-9	7-10	7-11	8-0	8-2
250.00	8-8	8-11	9-1	9-3	9-5	9-6	9-8	9-9	9-11	10-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 116 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.116
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-4	3-4	3-4	3-5	3-5	3-6	3-6	3-6	3-7	3-7
175.00	4-6	4-7	4-7	4-8	4-8	4-9	4-9	4-10	4-10	4-10
200.00	5-11	5-11	6-0	6-1	6-1	6-2	6-3	6-3	6-4	6-4
225.00	7-5	7-6	7-7	7-8	7-9	7-10	7-10	7-11	8-0	8-1
250.00	9-2	9-3	9-4	9-6	9-7	9-8	9-9	9-10	9-11	9-11
275.00	11-1	11-3	11-4	11-5	11-7	11-8	11-9	11-11	12-0	12-1
300.00	13-3	13-4	13-6	13-8	13-9	13-11	14-0	14-2	14-3	14-4
325.00	15-7	15-8	15-10	16-0	16-2	16-4	16-5	16-7	16-9	16-10
350.00	18-0	18-3	18-5	18-7	18-9	18-11	19-1	19-3	19-5	19-7
375.00	20-9	20-11	21-2	21-4	21-6	21-9	21-11	22-2	22-4	22-5

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-4	3-5	3-5	3-5	3-6	3-6	3-6	3-6	3-7	3-7
175.00	4-7	4-7	4-8	4-8	4-9	4-9	4-9	4-10	4-10	4-10
200.00	6-0	6-0	6-1	6-2	6-2	6-3	6-3	6-3	6-4	6-4
225.00	7-7	7-8	7-9	7-9	7-10	7-10	7-11	8-0	8-0	8-1
250.00	9-4	9-5	9-6	9-7	9-8	9-9	9-9	9-10	9-11	9-11
275.00	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11	12-0	12-1
300.00	13-6	13-7	13-9	13-10	13-11	14-0	14-1	14-2	14-3	14-4
325.00	15-10	16-0	16-2	16-3	16-4	16-5	16-6	16-8	16-9	16-10
350.00	18-4	18-6	18-9	18-10	19-0	19-1	19-2	19-4	19-5	19-7
375.00	21-1	21-3	21-6	21-8	21-9	21-11	22-1	22-2	22-4	22-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 117 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.117	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-1	6-1	6-2	6-2	6-3	6-3	6-3	6-4	6-4	6-4
225.00	7-9	7-9	7-10	7-10	7-10	7-11	7-11	8-0	8-0	8-1
250.00	9-6	9-7	9-8	9-8	9-9	9-9	9-10	9-10	9-11	9-11
275.00	11-6	11-7	11-8	11-9	11-9	11-10	11-11	11-11	12-0	12-1
300.00	13-9	13-10	13-10	13-11	14-0	14-1	14-2	14-3	14-4	14-4
325.00	16-1	16-2	16-3	16-4	16-5	16-6	16-7	16-8	16-9	16-10
350.00	18-8	18-10	18-11	19-0	19-1	19-2	19-3	19-5	19-6	19-7
375.00	21-6	21-7	21-9	21-10	21-11	22-1	22-2	22-3	22-4	22-5
400.00	24-6	24-7	24-9	24-10	25-0	25-1	25-3	25-4	25-6	25-7
425.00	27-8	27-9	27-11	28-1	28-3	28-4	28-6	28-8	28-9	28-10
450.00	31-0	31-2	31-4	31-6	31-8	31-10	32-0	32-2	32-3	32-5
475.00	34-7	34-9	34-11	35-1	35-3	35-6	35-8	35-10	36-0	36-1
500.00	38-4	38-6	38-9	38-11	39-2	39-4	39-6	39-9	39-11	40-1

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-2	6-2	6-3	6-3	6-3	6-3	6-4	6-4	6-4	6-4
225.00	7-9	7-10	7-10	7-11	7-11	7-11	8-0	8-0	8-0	8-1
250.00	9-7	9-8	9-9	9-9	9-9	9-10	9-10	9-11	9-11	9-11
275.00	11-8	11-8	11-9	11-10	11-10	11-11	11-11	12-0	12-0	12-1
300.00	13-10	13-11	14-0	14-1	14-1	14-2	14-2	14-3	14-4	14-4
325.00	16-3	16-4	16-5	16-6	16-7	16-7	16-8	16-9	16-9	16-10
350.00	18-11	19-0	19-1	19-2	19-3	19-3	19-4	19-5	19-6	19-7
375.00	21-8	21-10	21-11	22-0	22-1	22-2	22-3	22-4	22-4	22-5
400.00	24-8	24-10	24-11	25-0	25-1	25-3	25-4	25-5	25-6	25-7
425.00	27-11	28-0	28-2	28-3	28-5	28-6	28-7	28-8	28-9	28-10
450.00	31-3	31-5	31-7	31-9	31-10	31-11	32-1	32-2	32-3	32-5
475.00	34-11	35-1	35-3	35-5	35-6	35-8	35-9	35-10	36-0	36-1
500.00	38-8	38-11	39-1	39-3	39-4	39-6	39-8	39-9	39-11	40-1

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[illegible]

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.783	24.82	996	24.72	1000*
20	0	0	0	0.44	23.95	579	23.83	582
30	0	0	0	0.44	24.16	575	24.03	578
40	0	0	0	0.44	24.36	570	24.23	573
50	0	0	0	0.44	24.57	565	24.43	568
60	0	0	0	0.44	24.77	561	24.63	564
70	0	0	0	0.44	24.97	556	24.82	559
80	0	0	0	0.44	25.17	552	25.02	555
90	0	0	0	0.44	25.37	547	25.21	551
100	0	0	0	0.44	25.57	543	25.41	547
110	0	0	0	0.44	25.69	541	25.6	543
120	0	0	0	0.44	25.82	538	25.79	539
130	0	0	0	0.44	25.95	535	25.95	535
167	0	0	0	0.44	26.42	526	26.42	526
212	0	0	0	0.44	26.98	516	26.98	516

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>122 OF 359</p> </div>	Indicates Latest Revision	Completely Revised	X New Page	Information Removed	<div style="text-align: center;"> <p>OH810.122</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 1000 LBS</p> </div>				

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10
100.00	0-5	0-6	0-8	0-9	0-11	1-1	1-2	1-4	1-5	1-6
125.00	0-8	0-10	1-0	1-2	1-5	1-8	1-10	2-1	2-3	2-5
150.00	0-11	1-2	1-5	1-9	2-1	2-5	2-8	3-0	3-3	3-6
175.00	1-4	1-7	1-11	2-4	2-10	3-3	3-8	4-1	4-6	4-9
200.00	1-8	2-1	2-6	3-1	3-8	4-3	4-10	5-4	5-10	6-2

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-9	0-10	0-10
100.00	0-5	0-7	0-8	0-10	1-0	1-2	1-4	1-5	1-6	1-6
125.00	0-8	0-11	1-1	1-4	1-7	1-10	2-0	2-2	2-3	2-5
150.00	1-0	1-3	1-7	1-11	2-3	2-7	2-11	3-1	3-3	3-6
175.00	1-4	1-9	2-2	2-8	3-1	3-7	4-0	4-3	4-6	4-9
200.00	1-9	2-3	2-10	3-5	4-1	4-8	5-3	5-7	5-10	6-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 123 OF 359	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH810.123
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2
125.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-8	1-9	1-10
150.00	1-9	1-10	1-11	2-1	2-2	2-3	2-4	2-5	2-7	2-8
175.00	2-4	2-6	2-8	2-10	2-11	3-1	3-3	3-4	3-6	3-7
200.00	3-1	3-3	3-5	3-8	3-10	4-0	4-2	4-4	4-6	4-8
225.00	3-10	4-1	4-4	4-7	4-10	5-1	5-4	5-6	5-9	5-11
250.00	4-9	5-1	5-5	5-8	6-0	6-3	6-7	6-10	7-1	7-4

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-2
125.00	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-9	1-10	1-10
150.00	1-9	1-11	2-0	2-2	2-3	2-4	2-5	2-6	2-7	2-8
175.00	2-5	2-7	2-9	2-11	3-0	3-2	3-4	3-5	3-6	3-7
200.00	3-2	3-4	3-7	3-9	4-0	4-2	4-4	4-6	4-7	4-9
225.00	4-0	4-3	4-6	4-9	5-0	5-3	5-6	5-8	5-10	6-0
250.00	4-11	5-3	5-7	5-11	6-3	6-6	6-9	7-1	7-3	7-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 124 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.124
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-0	2-0	2-1	2-2	2-2	2-3	2-3	2-4	2-4	2-5
175.00	2-8	2-9	2-10	2-11	3-0	3-1	3-1	3-2	3-3	3-3
200.00	3-6	3-7	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4
225.00	4-6	4-7	4-8	4-10	4-11	5-0	5-2	5-3	5-4	5-5
250.00	5-6	5-8	5-10	5-11	6-1	6-3	6-4	6-6	6-7	6-9
275.00	6-8	6-10	7-0	7-2	7-4	7-6	7-8	7-10	8-0	8-2
300.00	7-11	8-2	8-4	8-7	8-9	8-11	9-2	9-4	9-6	9-8
325.00	9-4	9-7	9-10	10-1	10-3	10-6	10-9	10-11	11-2	11-4
350.00	10-10	11-1	11-5	11-8	11-11	12-2	12-5	12-8	12-11	13-2
375.00	12-5	12-9	13-1	13-5	13-8	14-0	14-3	14-7	14-10	15-2

Stringing Sag Table Using Final Sag							Ruling Span: 300.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-0	2-1	2-1	2-2	2-3	2-3	2-4	2-4	2-5	2-5
175.00	2-9	2-10	2-11	2-11	3-0	3-1	3-2	3-3	3-3	3-4
200.00	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4
225.00	4-6	4-8	4-9	4-11	5-0	5-1	5-3	5-4	5-5	5-6
250.00	5-7	5-9	5-11	6-0	6-2	6-4	6-5	6-7	6-8	6-9
275.00	6-9	7-0	7-2	7-4	7-6	7-8	7-10	7-11	8-1	8-2
300.00	8-1	8-3	8-6	8-8	8-11	9-1	9-3	9-6	9-8	9-9
325.00	9-6	9-9	10-0	10-3	10-5	10-8	10-11	11-1	11-4	11-5
350.00	11-0	11-3	11-7	11-10	12-1	12-5	12-8	12-11	13-1	13-3
375.00	12-7	12-11	13-3	13-7	13-11	14-3	14-6	14-10	15-1	15-3

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 125 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.125
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-9	3-9	3-10	3-10	3-11	4-0	4-0	4-1	4-1	4-2
225.00	4-8	4-9	4-10	4-11	4-11	5-0	5-1	5-2	5-2	5-3
250.00	5-10	5-11	6-0	6-0	6-1	6-2	6-3	6-4	6-5	6-6
275.00	7-0	7-1	7-3	7-4	7-5	7-6	7-7	7-8	7-9	7-10
300.00	8-4	8-6	8-7	8-8	8-10	8-11	9-0	9-2	9-3	9-4
325.00	9-10	9-11	10-1	10-3	10-4	10-6	10-7	10-9	10-10	11-0
350.00	11-5	11-6	11-8	11-10	12-0	12-2	12-3	12-5	12-7	12-9
375.00	13-1	13-3	13-5	13-7	13-9	13-11	14-1	14-3	14-5	14-7
400.00	14-10	15-1	15-3	15-6	15-8	15-10	16-1	16-3	16-5	16-8
425.00	16-10	17-0	17-3	17-6	17-8	17-11	18-2	18-4	18-7	18-9
450.00	18-10	19-1	19-4	19-7	19-10	20-1	20-4	20-7	20-10	21-1
475.00	21-0	21-3	21-7	21-10	22-1	22-5	22-8	22-11	23-2	23-6
500.00	23-3	23-7	23-11	24-3	24-6	24-10	25-2	25-5	25-9	26-0

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-9	3-10	3-10	3-11	3-11	4-0	4-1	4-1	4-2	4-2
225.00	4-9	4-10	4-10	4-11	5-0	5-1	5-1	5-2	5-3	5-3
250.00	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-6
275.00	7-1	7-2	7-3	7-4	7-6	7-7	7-8	7-9	7-10	7-11
300.00	8-5	8-7	8-8	8-9	8-11	9-0	9-1	9-3	9-4	9-5
325.00	9-11	10-0	10-2	10-4	10-5	10-7	10-8	10-10	10-11	11-0
350.00	11-6	11-8	11-10	11-11	12-1	12-3	12-5	12-7	12-8	12-9
375.00	13-2	13-4	13-6	13-9	13-11	14-1	14-3	14-5	14-7	14-8
400.00	15-0	15-2	15-5	15-7	15-10	16-0	16-3	16-5	16-7	16-9
425.00	16-11	17-2	17-5	17-8	17-10	18-1	18-4	18-6	18-9	18-10
450.00	19-0	19-3	19-6	19-9	20-0	20-3	20-6	20-9	21-0	21-2
475.00	21-2	21-5	21-9	22-0	22-4	22-7	22-11	23-2	23-5	23-7
500.00	23-5	23-9	24-1	24-5	24-9	25-1	25-4	25-8	25-11	26-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>126 OF 359</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.126
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.783	16.63	1478	16.39	1500*
20	0	0	0	0.44	15.17	910	14.84	930
30	0	0	0	0.44	15.48	892	15.15	911
40	0	0	0	0.44	15.79	874	15.45	894
50	0	0	0	0.44	16.09	858	15.74	877
60	0	0	0	0.44	16.39	843	16.04	861
70	0	0	0	0.44	16.68	828	16.32	846
80	0	0	0	0.44	16.97	814	16.61	832
90	0	0	0	0.44	17.26	801	16.89	818
100	0	0	0	0.44	17.54	788	17.16	805
110	0	0	0	0.44	17.81	776	17.44	792
120	0	0	0	0.44	18.04	766	17.7	781
130	0	0	0	0.44	18.21	759	17.97	769
167	0	0	0	0.44	18.83	734	18.83	734
212	0	0	0	0.44	19.57	707	19.57	707

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 130 OF 359	Indicates Latest Revision			Completely Revised	X	New Page		Information Removed	OH810.130
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS								
	DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS								

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8
100.00	0-3	0-4	0-4	0-5	0-6	0-7	0-9	0-11	1-1	1-2
125.00	0-5	0-6	0-7	0-8	0-10	1-0	1-2	1-5	1-8	1-10
150.00	0-7	0-8	0-10	0-11	1-2	1-5	1-8	2-0	2-4	2-8
175.00	0-10	0-11	1-1	1-3	1-7	1-11	2-4	2-9	3-3	3-8
200.00	1-1	1-2	1-5	1-8	2-0	2-6	3-0	3-7	4-2	4-9

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-8
100.00	0-3	0-4	0-5	0-6	0-8	0-10	1-0	1-1	1-2	1-2
125.00	0-5	0-6	0-8	0-10	1-0	1-3	1-6	1-8	1-9	1-11
150.00	0-8	0-9	0-11	1-2	1-6	1-10	2-2	2-5	2-7	2-9
175.00	0-10	1-0	1-3	1-7	2-0	2-6	2-11	3-3	3-6	3-8
200.00	1-1	1-4	1-8	2-1	2-7	3-3	3-10	4-3	4-6	4-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>131 OF 359</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH810.131
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-10
125.00	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
150.00	0-10	0-11	1-1	1-2	1-4	1-5	1-7	1-8	1-10	1-11
175.00	1-2	1-3	1-5	1-7	1-9	2-0	2-2	2-4	2-6	2-7
200.00	1-6	1-8	1-11	2-1	2-4	2-7	2-9	3-0	3-3	3-5
225.00	1-10	2-1	2-5	2-8	2-11	3-3	3-6	3-10	4-1	4-4
250.00	2-4	2-7	2-11	3-3	3-8	4-0	4-4	4-8	5-0	5-4

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0- 5	0- 6	0- 6	0- 7	0- 8	0- 9	0- 9	0-10	0-10	0-11
125.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
150.00	0-11	1-1	1-2	1-4	1-6	1-7	1-9	1-10	1-11	2-0
175.00	1-3	1-5	1-7	1-10	2-0	2-2	2-4	2-6	2-8	2-9
200.00	1-8	1-10	2-1	2-4	2-7	2-10	3-1	3-4	3-6	3-7
225.00	2-1	2-4	2-8	3-0	3-4	3-7	3-11	4-2	4-5	4-7
250.00	2-7	2-11	3-4	3-8	4-1	4-5	4-10	5-2	5-5	5-7

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Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-1	1-2	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-8
175.00	1-6	1-7	1-8	1-10	1-11	2-0	2-1	2-2	2-3	2-4
200.00	2-0	2-1	2-3	2-4	2-6	2-7	2-8	2-10	2-11	3-0
225.00	2-6	2-8	2-10	3-0	3-1	3-3	3-5	3-7	3-8	3-10
250.00	3-1	3-3	3-6	3-8	3-10	4-1	4-3	4-5	4-7	4-9
275.00	3-9	4-0	4-2	4-5	4-8	4-11	5-1	5-4	5-6	5-9
300.00	4-5	4-9	5-0	5-3	5-7	5-10	6-1	6-4	6-7	6-10
325.00	5-2	5-6	5-10	6-2	6-6	6-10	7-2	7-5	7-9	8-0
350.00	6-0	6-5	6-10	7-2	7-7	7-11	8-3	8-8	9-0	9-3
375.00	6-11	7-4	7-10	8-3	8-8	9-1	9-6	9-11	10-3	10-8

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-2	1-3	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-9
175.00	1-7	1-8	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5
200.00	2-1	2-3	2-4	2-6	2-7	2-9	2-10	3-0	3-1	3-2
225.00	2-8	2-10	3-0	3-2	3-4	3-6	3-7	3-9	3-11	4-0
250.00	3-3	3-6	3-8	3-11	4-1	4-3	4-5	4-8	4-10	4-11
275.00	4-0	4-3	4-6	4-9	4-11	5-2	5-5	5-7	5-10	6-0
300.00	4-9	5-0	5-4	5-7	5-11	6-2	6-5	6-8	6-11	7-1
325.00	5-6	5-11	6-3	6-7	6-11	7-3	7-6	7-10	8-1	8-4
350.00	6-5	6-10	7-3	7-8	8-0	8-5	8-9	9-1	9-5	9-8
375.00	7-4	7-10	8-4	8-9	9-2	9-7	10-0	10-5	10-10	11-1

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-3	2-4	2-5	2-6	2-6	2-7	2-8	2-9	2-10	2-10
225.00	2-10	2-11	3-0	3-1	3-2	3-3	3-5	3-6	3-7	3-8
250.00	3-6	3-7	3-9	3-10	3-11	4-1	4-2	4-3	4-5	4-6
275.00	4-3	4-4	4-6	4-8	4-9	4-11	5-1	5-2	5-4	5-5
300.00	5-0	5-2	5-4	5-6	5-8	5-10	6-0	6-2	6-4	6-5
325.00	5-11	6-1	6-4	6-6	6-8	6-10	7-1	7-3	7-5	7-7
350.00	6-10	7-1	7-4	7-6	7-9	8-0	8-2	8-5	8-7	8-9
375.00	7-10	8-2	8-5	8-8	8-11	9-2	9-5	9-8	9-10	10-1
400.00	8-11	9-3	9-7	9-10	10-2	10-5	10-8	10-11	11-3	11-6
425.00	10-1	10-5	10-9	11-1	11-5	11-9	12-1	12-4	12-8	13-0
450.00	11-4	11-9	12-1	12-5	12-10	13-2	13-6	13-10	14-2	14-6
475.00	12-7	13-1	13-6	13-11	14-3	14-8	15-1	15-5	15-10	16-2
500.00	14-0	14-5	14-11	15-5	15-10	16-3	16-8	17-2	17-7	17-11

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-4	2-5	2-6	2-7	2-7	2-8	2-9	2-10	2-11	2-11
225.00	2-11	3-0	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
250.00	3-7	3-9	3-10	4-0	4-1	4-2	4-4	4-5	4-6	4-7
275.00	4-5	4-6	4-8	4-10	4-11	5-1	5-3	5-4	5-6	5-7
300.00	5-3	5-5	5-7	5-9	5-11	6-1	6-2	6-4	6-6	6-8
325.00	6-1	6-4	6-6	6-9	6-11	7-1	7-3	7-6	7-8	7-10
350.00	7-1	7-4	7-7	7-10	8-0	8-3	8-5	8-8	8-10	9-1
375.00	8-2	8-5	8-8	8-11	9-2	9-5	9-8	9-11	10-2	10-5
400.00	9-3	9-7	9-11	10-2	10-6	10-9	11-0	11-4	11-7	11-10
425.00	10-6	10-10	11-2	11-6	11-10	12-2	12-6	12-9	13-1	13-4
450.00	11-9	12-1	12-6	12-11	13-3	13-7	14-0	14-4	14-8	15-0
475.00	13-1	13-6	13-11	14-4	14-9	15-2	15-7	16-0	16-4	16-9
500.00	14-6	15-0	15-5	15-11	16-4	16-10	17-3	17-8	18-1	18-6

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-3	4-4
275.00	4-6	4-7	4-8	4-9	4-10	4-11	5-0	5-1	5-2	5-3
300.00	5-4	5-5	5-7	5-8	5-9	5-10	6-0	6-1	6-2	6-3
325.00	6-3	6-5	6-6	6-8	6-9	6-11	7-0	7-2	7-3	7-4
350.00	7-3	7-5	7-7	7-9	7-10	8-0	8-2	8-3	8-5	8-6
375.00	8-4	8-6	8-8	8-10	9-0	9-2	9-4	9-6	9-8	9-10
400.00	9-6	9-8	9-11	10-1	10-3	10-5	10-7	10-10	11-0	11-2
425.00	10-9	10-11	11-2	11-4	11-7	11-9	12-0	12-2	12-5	12-7
450.00	12-0	12-3	12-6	12-9	13-0	13-3	13-5	13-8	13-11	14-1
475.00	13-5	13-8	13-11	14-2	14-6	14-9	15-0	15-3	15-6	15-9
500.00	14-10	15-2	15-5	15-9	16-0	16-4	16-7	16-11	17-2	17-5
525.00	16-4	16-8	17-0	17-4	17-8	18-0	18-4	18-7	18-11	19-3
550.00	18-0	18-4	18-8	19-1	19-5	19-9	20-1	20-5	20-9	21-1
575.00	19-8	20-0	20-5	20-10	21-3	21-7	22-0	22-4	22-9	23-1
600.00	21-5	21-10	22-3	22-8	23-1	23-6	23-11	24-4	24-9	25-1
625.00	23-2	23-8	24-2	24-7	25-1	25-6	26-0	26-5	26-10	27-3

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<div style="text-align: center;"> <p>SHEET</p> <p>135 OF 359</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH810.135</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 1500 LBS</p> </div>					

Span = 100 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.783	0.6	1634	0.49	2000*
20	0	0	0	0.44	0.23	2431	0.21	2675
30	0	0	0	0.44	0.26	2091	0.23	2415
40	0	0	0	0.44	0.31	1759	0.26	2152
50	0	0	0	0.44	0.38	1445	0.29	1888
60	0	0	0	0.44	0.47	1159	0.34	1625
70	0	0	0	0.44	0.6	920	0.4	1370
80	0	0	0	0.44	0.75	738	0.49	1132
90	0	0	0	0.44	0.84	658	0.6	924
100	0	0	0	0.44	0.9	609	0.73	756
110	0	0	0	0.44	0.97	564	0.87	630
120	0	0	0	0.44	1.05	525	1.02	539
130	0	0	0	0.44	1.12	490	1.12	492
167	0	0	0	0.44	1.4	393	1.4	394
212	0	0	0	0.44	1.72	320	1.72	321

* Design Condition

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.783	2.21	1772	1.96	2000*
20	0	0	0	0.44	1.09	2022	0.96	2302
30	0	0	0	0.44	1.26	1752	1.06	2068
40	0	0	0	0.44	1.45	1514	1.19	1843
50	0	0	0	0.44	1.68	1312	1.35	1631
60	0	0	0	0.44	1.92	1147	1.53	1439
70	0	0	0	0.44	2.17	1015	1.73	1271
80	0	0	0	0.44	2.42	911	1.95	1129
90	0	0	0	0.44	2.66	828	2.18	1010
100	0	0	0	0.44	2.85	771	2.41	913
110	0	0	0	0.44	2.97	740	2.64	834
120	0	0	0	0.44	3.09	712	2.86	769
130	0	0	0	0.44	3.21	685	3.08	714
167	0	0	0	0.44	3.65	604	3.64	605
212	0	0	0	0.44	4.16	530	4.15	531

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C					F						
B					E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		
SHEET 136 OF 359		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									OH810.136
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.783	8.24	1904	7.84	2000*
20	0	0	0	0.44	6.28	1402	5.73	1537
30	0	0	0	0.44	6.67	1321	6.09	1447
40	0	0	0	0.44	7.05	1250	6.45	1367
50	0	0	0	0.44	7.41	1188	6.8	1296
60	0	0	0	0.44	7.77	1134	7.15	1232
70	0	0	0	0.44	8.13	1085	7.49	1176
80	0	0	0	0.44	8.47	1041	7.83	1125
90	0	0	0	0.44	8.8	1002	8.16	1080
100	0	0	0	0.44	9.12	966	8.49	1039
110	0	0	0	0.44	9.44	934	8.81	1001
120	0	0	0	0.44	9.71	909	9.12	967
130	0	0	0	0.44	9.89	892	9.42	936
167	0	0	0	0.44	10.54	837	10.49	841
212	0	0	0	0.44	11.3	781	11.29	782
* Design Condition								

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 137 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.137
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.783	12.7	1933	12.27	2000*
20	0	0	0	0.44	10.63	1296	10.01	1376
30	0	0	0	0.44	11.03	1249	10.4	1325
40	0	0	0	0.44	11.43	1206	10.78	1278
50	0	0	0	0.44	11.81	1167	11.16	1235
60	0	0	0	0.44	12.19	1131	11.53	1195
70	0	0	0	0.44	12.56	1097	11.9	1158
80	0	0	0	0.44	12.92	1067	12.25	1125
90	0	0	0	0.44	13.28	1038	12.61	1093
100	0	0	0	0.44	13.63	1012	12.95	1064
110	0	0	0	0.44	13.97	987	13.29	1037
120	0	0	0	0.44	14.3	965	13.63	1012
130	0	0	0	0.44	14.54	949	13.95	988
167	0	0	0	0.44	15.27	904	15.12	912
212	0	0	0	0.44	16.12	856	16.1	857
* Design Condition								

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>138 OF 359</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH810.138</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 2000 LBS</p> </div>				

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6
100.00	0-2	0-3	0-3	0-3	0-4	0-5	0-6	0-7	0-9	0-10
125.00	0-4	0-4	0-5	0-5	0-6	0-8	0-9	0-11	1-2	1-4
150.00	0-6	0-6	0-7	0-8	0-9	0-11	1-1	1-4	1-8	2-0
175.00	0-8	0-8	0-9	0-11	1-0	1-3	1-6	1-10	2-3	2-8
200.00	0-10	0-11	1-0	1-2	1-4	1-7	1-11	2-5	2-11	3-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-6	0-7
100.00	0-3	0-3	0-4	0-5	0-6	0-7	0-9	0-10	0-11	1-0
125.00	0-4	0-5	0-6	0-7	0-9	0-11	1-2	1-4	1-5	1-6
150.00	0-6	0-7	0-8	0-10	1-1	1-4	1-8	1-11	2-0	2-2
175.00	0-8	0-10	0-11	1-2	1-5	1-10	2-3	2-7	2-9	3-0
200.00	0-11	1-1	1-3	1-6	1-11	2-5	3-0	3-4	3-7	3-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>139 OF 359</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH810.139
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8
125.00	0-4	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0
150.00	0-6	0-7	0-8	0-9	0-10	1-0	1-1	1-3	1-4	1-6
175.00	0-9	0-10	0-11	1-0	1-2	1-4	1-6	1-8	1-10	2-0
200.00	0-11	1-1	1-2	1-4	1-6	1-9	1-11	2-2	2-5	2-8
225.00	1-3	1-4	1-6	1-8	1-11	2-2	2-6	2-9	3-1	3-4
250.00	1-6	1-8	1-10	2-1	2-5	2-8	3-1	3-5	3-9	4-2

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-5	0-6	0-7	0-7	0-8	0-9	0-9
125.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2
150.00	0-7	0-8	0-10	0-11	1-1	1-3	1-4	1-6	1-7	1-8
175.00	0-10	1-0	1-1	1-3	1-6	1-8	1-10	2-0	2-2	2-3
200.00	1-1	1-3	1-5	1-8	1-11	2-2	2-5	2-8	2-10	3-0
225.00	1-5	1-7	1-10	2-1	2-5	2-9	3-1	3-4	3-7	3-9
250.00	1-8	2-0	2-3	2-7	3-0	3-5	3-9	4-2	4-6	4-8

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 140 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.140
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4
175.00	0-11	1-0	1-1	1-2	1-4	1-5	1-6	1-7	1-8	1-9
200.00	1-2	1-4	1-5	1-7	1-8	1-10	1-11	2-1	2-3	2-4
225.00	1-6	1-8	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-0
250.00	1-10	2-0	2-3	2-5	2-8	2-10	3-1	3-3	3-6	3-8
275.00	2-3	2-6	2-8	2-11	3-2	3-5	3-8	3-11	4-2	4-5
300.00	2-8	2-11	3-3	3-6	3-10	4-1	4-5	4-8	5-0	5-3
325.00	3-2	3-5	3-9	4-1	4-6	4-10	5-2	5-6	5-10	6-2
350.00	3-8	4-0	4-4	4-9	5-2	5-7	6-0	6-5	6-9	7-2
375.00	4-2	4-7	5-0	5-6	5-11	6-5	6-10	7-4	7-9	8-3

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-5
175.00	1-0	1-2	1-3	1-4	1-6	1-7	1-8	1-10	1-11	2-0
200.00	1-4	1-6	1-8	1-9	1-11	2-1	2-3	2-4	2-6	2-7
225.00	1-9	1-11	2-1	2-3	2-5	2-7	2-10	3-0	3-2	3-3
250.00	2-1	2-4	2-7	2-10	3-0	3-3	3-5	3-8	3-10	4-0
275.00	2-7	2-10	3-1	3-5	3-8	3-11	4-2	4-5	4-8	4-11
300.00	3-1	3-4	3-8	4-0	4-4	4-8	5-0	5-3	5-7	5-10
325.00	3-7	4-0	4-4	4-9	5-1	5-6	5-10	6-2	6-6	6-10
350.00	4-2	4-7	5-0	5-6	5-11	6-4	6-9	7-2	7-7	7-11
375.00	4-9	5-3	5-9	6-4	6-10	7-4	7-9	8-3	8-8	9-1

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C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 141 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH810.141
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2
225.00	1-10	1-11	2-0	2-2	2-3	2-4	2-6	2-7	2-8	2-9
250.00	2-3	2-5	2-6	2-8	2-10	2-11	3-1	3-2	3-4	3-5
275.00	2-8	2-11	3-1	3-3	3-5	3-6	3-8	3-10	4-0	4-2
300.00	3-3	3-5	3-7	3-10	4-0	4-3	4-5	4-7	4-9	4-11
325.00	3-9	4-0	4-3	4-6	4-9	4-11	5-2	5-5	5-7	5-10
350.00	4-5	4-8	4-11	5-2	5-6	5-9	6-0	6-3	6-6	6-9
375.00	5-0	5-4	5-8	6-0	6-3	6-7	6-11	7-2	7-6	7-9
400.00	5-9	6-1	6-5	6-10	7-2	7-6	7-10	8-2	8-6	8-10
425.00	6-6	6-10	7-3	7-8	8-1	8-6	8-10	9-3	9-7	9-11
450.00	7-3	7-8	8-2	8-7	9-1	9-6	9-11	10-4	10-9	11-2
475.00	8-1	8-7	9-1	9-7	10-1	10-7	11-1	11-6	12-0	12-5
500.00	8-11	9-6	10-1	10-8	11-2	11-9	12-3	12-9	13-3	13-9

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4
225.00	2-0	2-1	2-3	2-4	2-6	2-7	2-8	2-9	2-11	3-0
250.00	2-5	2-7	2-9	2-11	3-0	3-2	3-4	3-5	3-7	3-8
275.00	3-0	3-2	3-4	3-6	3-8	3-10	4-0	4-2	4-4	4-6
300.00	3-6	3-9	4-0	4-2	4-4	4-7	4-9	4-11	5-2	5-4
325.00	4-2	4-5	4-8	4-11	5-2	5-4	5-7	5-10	6-0	6-3
350.00	4-10	5-1	5-5	5-8	5-11	6-3	6-6	6-9	7-0	7-3
375.00	5-6	5-10	6-2	6-6	6-10	7-2	7-5	7-9	8-0	8-4
400.00	6-3	6-8	7-1	7-5	7-9	8-2	8-6	8-10	9-1	9-5
425.00	7-1	7-6	7-11	8-4	8-9	9-2	9-7	9-11	10-4	10-8
450.00	7-11	8-5	8-11	9-5	9-10	10-3	10-9	11-2	11-7	11-11
475.00	8-10	9-5	9-11	10-5	11-0	11-6	11-11	12-5	12-10	13-4
500.00	9-10	10-5	11-0	11-7	12-2	12-8	13-3	13-9	14-3	14-9

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C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 142 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH810.142
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS										

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.783	1.87	2099	1.57	2500*
20	0	0	0	0.44	0.86	2561	0.74	2963
30	0	0	0	0.44	0.98	2252	0.81	2720
40	0	0	0	0.44	1.12	1963	0.89	2477
50	0	0	0	0.44	1.3	1699	0.98	2236
60	0	0	0	0.44	1.5	1468	1.1	2002
70	0	0	0	0.44	1.73	1274	1.24	1778
80	0	0	0	0.44	1.97	1117	1.4	1571
90	0	0	0	0.44	2.22	991	1.59	1385
100	0	0	0	0.44	2.42	910	1.8	1223
110	0	0	0	0.44	2.53	869	2.02	1088
120	0	0	0	0.44	2.65	831	2.25	976
130	0	0	0	0.44	2.77	795	2.49	885
167	0	0	0	0.44	3.21	686	3.18	692
212	0	0	0	0.44	3.74	589	3.71	593
* Design Condition								

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>144 OF 359</h2> </div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH810.144	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS									

* Design Condition

* Design Condition

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[illegible]

Span = 500 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.783	10.43	2351	9.81	2500*
20	0	0	0	0.44	7.85	1754	6.98	1972
30	0	0	0	0.44	8.3	1658	7.39	1863
40	0	0	0	0.44	8.75	1573	7.8	1764
50	0	0	0	0.44	9.2	1497	8.22	1675
60	0	0	0	0.44	9.63	1430	8.63	1595
70	0	0	0	0.44	10.06	1369	9.04	1523
80	0	0	0	0.44	10.47	1315	9.45	1457
90	0	0	0	0.44	10.88	1266	9.85	1398
100	0	0	0	0.44	11.28	1221	10.25	1344
110	0	0	0	0.44	11.67	1181	10.64	1295
120	0	0	0	0.44	12.05	1144	11.02	1250
130	0	0	0	0.44	12.38	1114	11.4	1209
167	0	0	0	0.44	13.16	1048	12.74	1082
212	0	0	0	0.44	14.08	979	14.04	983

* Design Condition

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SHEET
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Indicates Latest Revision

Completely Revised



New Page

Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.146

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4
100.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-6	0-7
125.00	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-9	0-11
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-11	1-1	1-4
175.00	0-6	0-7	0-8	0-8	0-9	0-11	1-0	1-3	1-6	1-10
200.00	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-7	1-11	2-5

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-2	0-2	0-3	0-3	0-4	0-5	0-5	0-5
100.00	0-2	0-3	0-3	0-4	0-4	0-6	0-7	0-8	0-9	0-9
125.00	0-4	0-4	0-5	0-6	0-7	0-9	0-11	1-1	1-2	1-3
150.00	0-5	0-6	0-7	0-8	0-10	1-0	1-4	1-6	1-8	1-9
175.00	0-7	0-8	0-9	0-11	1-2	1-5	1-9	2-1	2-3	2-5
200.00	0-9	0-11	1-0	1-3	1-6	1-10	2-4	2-8	2-11	3-2

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 147 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.147
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6
125.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9
150.00	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-11	1-0	1-2
175.00	0-7	0-7	0-8	0-9	0-10	0-11	1-1	1-3	1-5	1-7
200.00	0-9	0-10	0-11	1-0	1-1	1-3	1-5	1-7	1-10	2-0
225.00	0-11	1-0	1-1	1-3	1-5	1-7	1-9	2-0	2-3	2-7
250.00	1-2	1-3	1-5	1-6	1-9	1-11	2-2	2-6	2-10	3-2

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-7	0-8
125.00	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0
150.00	0-6	0-7	0-8	0-9	0-10	1-0	1-1	1-3	1-4	1-5
175.00	0-8	0-9	0-10	1-0	1-2	1-4	1-6	1-8	1-10	1-11
200.00	0-10	1-0	1-1	1-4	1-6	1-9	2-0	2-3	2-5	2-6
225.00	1-1	1-3	1-5	1-8	1-11	2-2	2-6	2-10	3-1	3-2
250.00	1-4	1-6	1-9	2-0	2-4	2-8	3-1	3-6	3-9	4-0

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SHEET 148 OF 359	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH810.148
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-0
175.00	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-5
200.00	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-7	1-9	1-10
225.00	1-1	1-2	1-3	1-5	1-6	1-8	1-10	2-0	2-2	2-4
250.00	1-4	1-5	1-7	1-9	1-11	2-1	2-3	2-6	2-8	2-11
275.00	1-7	1-9	1-11	2-1	2-3	2-6	2-9	3-0	3-3	3-6
300.00	1-11	2-1	2-3	2-6	2-9	3-0	3-3	3-7	3-10	4-2
325.00	2-3	2-5	2-8	2-11	3-2	3-6	3-10	4-2	4-6	4-11
350.00	2-7	2-10	3-1	3-4	3-8	4-1	4-5	4-10	5-3	5-8
375.00	2-11	3-3	3-6	3-10	4-3	4-8	5-1	5-7	6-0	6-6

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3
175.00	0-9	0-10	0-11	1-1	1-2	1-3	1-5	1-6	1-7	1-8
200.00	1-0	1-1	1-3	1-4	1-6	1-8	1-10	1-11	2-1	2-3
225.00	1-3	1-5	1-7	1-9	1-11	2-1	2-3	2-6	2-8	2-10
250.00	1-7	1-9	1-11	2-2	2-4	2-7	2-10	3-1	3-3	3-6
275.00	1-10	2-1	2-4	2-7	2-10	3-2	3-5	3-8	3-11	4-2
300.00	2-3	2-6	2-9	3-1	3-5	3-9	4-1	4-5	4-8	5-0
325.00	2-7	2-11	3-3	3-8	4-0	4-5	4-9	5-2	5-6	5-10
350.00	3-0	3-5	3-9	4-2	4-8	5-1	5-6	6-0	6-5	6-9
375.00	3-6	3-11	4-4	4-10	5-4	5-10	6-4	6-10	7-4	7-9

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 149 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.149
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
225.00	1-3	1-4	1-5	1-7	1-8	1-9	1-11	2-0	2-1	2-3
250.00	1-6	1-8	1-9	1-11	2-1	2-2	2-4	2-6	2-7	2-9
275.00	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4
300.00	2-2	2-4	2-7	2-9	2-11	3-2	3-4	3-7	3-9	3-11
325.00	2-7	2-9	3-0	3-3	3-5	3-8	3-11	4-2	4-5	4-8
350.00	3-0	3-3	3-6	3-9	4-0	4-3	4-7	4-10	5-1	5-5
375.00	3-5	3-8	4-0	4-3	4-7	4-11	5-3	5-7	5-10	6-2
400.00	3-11	4-3	4-6	4-11	5-3	5-7	5-11	6-4	6-8	7-0
425.00	4-5	4-9	5-2	5-6	5-11	6-4	6-9	7-2	7-6	7-11
450.00	4-11	5-4	5-9	6-2	6-7	7-1	7-6	8-0	8-5	8-11
475.00	5-6	5-11	6-5	6-11	7-5	7-11	8-5	8-11	9-5	9-11
500.00	6-1	6-7	7-1	7-8	8-2	8-9	9-4	9-10	10-5	11-0

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-10	1-11	2-0
225.00	1-5	1-7	1-8	1-10	1-11	2-1	2-2	2-4	2-5	2-6
250.00	1-9	1-11	2-1	2-3	2-5	2-7	2-8	2-10	3-0	3-1
275.00	2-2	2-4	2-6	2-8	2-11	3-1	3-3	3-5	3-7	3-9
300.00	2-7	2-9	3-0	3-3	3-5	3-8	3-11	4-1	4-3	4-6
325.00	3-0	3-3	3-6	3-9	4-0	4-4	4-7	4-10	5-0	5-3
350.00	3-6	3-9	4-1	4-5	4-8	5-0	5-3	5-7	5-10	6-1
375.00	4-0	4-4	4-8	5-0	5-5	5-9	6-1	6-5	6-8	7-0
400.00	4-7	4-11	5-4	5-9	6-1	6-6	6-11	7-3	7-8	8-0
425.00	5-2	5-7	6-0	6-6	6-11	7-4	7-9	8-2	8-7	9-0
450.00	5-9	6-3	6-9	7-3	7-9	8-3	8-9	9-2	9-8	10-1
475.00	6-5	7-0	7-6	8-1	8-8	9-2	9-9	10-3	10-9	11-3
500.00	7-1	7-9	8-4	8-11	9-7	10-2	10-9	11-4	11-11	12-6

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
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		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS											

* Design Condition

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
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		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.783	8.96	2735	8.17	3000*
20	0	0	0	0.44	6.07	2267	5.13	2679
30	0	0	0	0.44	6.52	2111	5.47	2513
40	0	0	0	0.44	6.98	1972	5.83	2358
50	0	0	0	0.44	7.44	1851	6.21	2214
60	0	0	0	0.44	7.9	1743	6.61	2083
70	0	0	0	0.44	8.35	1648	7.01	1962
80	0	0	0	0.44	8.8	1564	7.42	1853
90	0	0	0	0.44	9.24	1490	7.84	1755
100	0	0	0	0.44	9.68	1423	8.26	1666
110	0	0	0	0.44	10.1	1363	8.68	1586
120	0	0	0	0.44	10.52	1310	9.09	1514
130	0	0	0	0.44	10.89	1264	9.5	1449
167	0	0	0	0.44	11.7	1177	10.97	1256
212	0	0	0	0.44	12.67	1088	12.58	1096

* Design Condition

* Design Condition

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

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Indicates Latest Revision

Completely Revised



New Page

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 3000 LBS

OH810.154

Stringing Sag Table Using Initial Sag							Ruling Span:	100.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5
125.00	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-8
150.00	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-11
175.00	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-11	1-0	1-3
200.00	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-7

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-4	0-4	0-4
100.00	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-7	0-7	0-8
125.00	0-3	0-4	0-4	0-5	0-6	0-7	0-9	0-10	0-11	1-0
150.00	0-5	0-5	0-6	0-7	0-8	0-10	1-0	1-3	1-4	1-5
175.00	0-6	0-7	0-8	0-9	0-11	1-2	1-5	1-8	1-10	2-0
200.00	0-8	0-9	0-11	1-0	1-3	1-6	1-10	2-2	2-4	2-7

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5
125.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-6	0-7
150.00	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10
175.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2
200.00	0-7	0-8	0-9	0-9	0-10	0-11	1-1	1-2	1-4	1-6
225.00	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-6	1-8	1-11
250.00	1-0	1-0	1-1	1-3	1-4	1-6	1-8	1-10	2-1	2-5

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-6	0-7
125.00	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10
150.00	0-5	0-6	0-6	0-7	0-8	0-10	0-11	1-1	1-2	1-3
175.00	0-7	0-8	0-9	0-10	0-11	1-1	1-3	1-5	1-7	1-8
200.00	0-9	0-10	0-11	1-1	1-3	1-5	1-8	1-10	2-1	2-2
225.00	0-11	1-0	1-2	1-4	1-7	1-10	2-1	2-4	2-8	2-9
250.00	1-2	1-3	1-5	1-8	1-11	2-3	2-7	2-11	3-3	3-5

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10
175.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1
200.00	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-6
225.00	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-10
250.00	1-1	1-1	1-3	1-4	1-5	1-7	1-9	1-11	2-1	2-3
275.00	1-3	1-4	1-6	1-7	1-9	1-11	2-1	2-4	2-6	2-9
300.00	1-6	1-7	1-9	1-11	2-1	2-3	2-6	2-9	3-0	3-3
325.00	1-9	1-11	2-1	2-3	2-5	2-8	2-11	3-2	3-6	3-10
350.00	2-1	2-2	2-5	2-7	2-10	3-1	3-5	3-9	4-1	4-6
375.00	2-4	2-6	2-9	3-0	3-3	3-6	3-11	4-3	4-8	5-2

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1
175.00	0-7	0-8	0-9	0-10	0-11	1-1	1-2	1-3	1-5	1-6
200.00	0-10	0-11	1-0	1-1	1-3	1-5	1-6	1-8	1-10	1-11
225.00	1-0	1-1	1-3	1-5	1-7	1-9	1-11	2-1	2-3	2-5
250.00	1-3	1-5	1-7	1-9	1-11	2-2	2-4	2-7	2-10	3-0
275.00	1-6	1-8	1-11	2-1	2-4	2-7	2-10	3-2	3-5	3-8
300.00	1-10	2-0	2-3	2-6	2-9	3-1	3-5	3-9	4-1	4-4
325.00	2-1	2-4	2-7	2-11	3-3	3-8	4-0	4-5	4-9	5-1
350.00	2-5	2-9	3-0	3-5	3-9	4-3	4-8	5-1	5-6	5-11
375.00	2-10	3-1	3-6	3-11	4-4	4-10	5-4	5-10	6-4	6-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 157 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.157
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS									

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-6	1-8	1-9	1-10	2-0	2-1	2-2	2-4	2-5	2-6
275.00	1-10	2-0	2-1	2-3	2-5	2-6	2-8	2-10	2-11	3-1
300.00	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8
325.00	2-7	2-9	2-11	3-2	3-4	3-6	3-9	3-11	4-1	4-3
350.00	3-0	3-2	3-5	3-8	3-10	4-1	4-4	4-6	4-9	4-11
375.00	3-5	3-8	3-11	4-2	4-5	4-8	4-11	5-2	5-5	5-8
400.00	3-11	4-2	4-6	4-9	5-1	5-4	5-8	5-11	6-2	6-6
425.00	4-5	4-9	5-0	5-4	5-8	6-0	6-4	6-8	7-0	7-4
450.00	4-11	5-3	5-8	6-0	6-5	6-9	7-2	7-6	7-10	8-2
475.00	5-6	5-11	6-4	6-9	7-2	7-6	7-11	8-4	8-9	9-1
500.00	6-1	6-6	7-0	7-5	7-11	8-4	8-10	9-3	9-8	10-1
525.00	6-8	7-2	7-8	8-2	8-8	9-3	9-8	10-2	10-8	11-2
550.00	7-4	7-11	8-5	9-0	9-7	10-1	10-8	11-2	11-9	12-3
575.00	8-0	8-7	9-3	9-10	10-5	11-1	11-8	12-3	12-10	13-4
600.00	8-9	9-5	10-1	10-9	11-4	12-0	12-8	13-4	13-11	14-7
625.00	9-6	10-2	10-11	11-7	12-4	13-1	13-9	14-5	15-2	15-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 159 OF 359		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH810.159
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS											

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.783	24.79	997	24.72	1000*
0	0	0	0	0.44	24.13	575	24.03	578
30	0	0	0	0.44	24.75	561	24.62	564
40	0	0	0	0.44	24.95	557	24.82	559
50	0	0	0	0.44	25.15	552	25.02	555
60	0	0	0	0.44	25.35	548	25.21	551
70	0	0	0	0.44	25.54	544	25.4	547
80	0	0	0	0.44	25.74	540	25.59	543
90	0	0	0	0.44	25.94	536	25.78	539
100	0	0	0	0.44	26.12	532	25.97	535
110	0	0	0	0.44	26.24	530	26.16	531
120	0	0	0	0.44	26.37	527	26.35	528
130	0	0	0	0.44	26.5	525	26.5	525
167	0	0	0	0.44	26.96	516	26.96	516
212	0	0	0	0.44	27.51	506	27.51	506
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>162 OF 359</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH810.162</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 1000 LBS</p> </div>						

Completely Revised

T

Information Removed

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.162

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-0
100.00	0-9	0-11	1-1	1-2	1-4	1-5	1-7	1-8	1-9	1-10
125.00	1-2	1-5	1-8	1-10	2-1	2-3	2-5	2-8	2-9	2-10
150.00	1-9	2-1	2-5	2-8	3-0	3-3	3-6	3-9	4-0	4-2
175.00	2-4	2-9	3-3	3-8	4-1	4-5	4-10	5-2	5-5	5-7
200.00	3-1	3-8	4-3	4-9	5-4	5-10	6-3	6-9	7-1	7-4

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-0
100.00	0-10	0-11	1-1	1-3	1-5	1-6	1-8	1-8	1-9	1-10
125.00	1-3	1-6	1-9	1-11	2-2	2-4	2-7	2-8	2-9	2-10
150.00	1-10	2-2	2-6	2-10	3-1	3-5	3-8	3-10	4-0	4-2
175.00	2-5	2-11	3-5	3-10	4-3	4-8	5-0	5-2	5-5	5-7
200.00	3-2	3-10	4-5	5-0	5-7	6-1	6-6	6-10	7-1	7-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 163 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.163
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-3
125.00	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-11	1-11	2-0
150.00	2-1	2-2	2-3	2-4	2-5	2-7	2-8	2-9	2-10	2-11
175.00	2-10	2-11	3-1	3-3	3-4	3-6	3-7	3-9	3-10	3-11
200.00	3-8	3-10	4-0	4-2	4-4	4-6	4-8	4-10	5-0	5-2
225.00	4-7	4-10	5-1	5-4	5-6	5-9	5-11	6-2	6-4	6-6
250.00	5-8	6-0	6-3	6-7	6-10	7-1	7-4	7-7	7-10	8-1

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-3
125.00	1-6	1-6	1-7	1-8	1-9	1-10	1-10	1-11	2-0	2-0
150.00	2-1	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
175.00	2-10	3-0	3-2	3-3	3-5	3-7	3-8	3-10	3-10	3-11
200.00	3-9	3-11	4-1	4-4	4-6	4-8	4-10	4-11	5-1	5-2
225.00	4-9	5-0	5-3	5-5	5-8	5-10	6-1	6-3	6-5	6-6
250.00	5-10	6-2	6-5	6-9	7-0	7-3	7-6	7-9	7-11	8-1

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>164 OF 359</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH810.164</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 1000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-2	2-2	2-3	2-3	2-4	2-4	2-5	2-6	2-6	2-7
175.00	2-11	3-0	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-6
200.00	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-5	4-6
225.00	4-10	4-11	5-0	5-2	5-3	5-4	5-5	5-6	5-8	5-9
250.00	5-11	6-1	6-3	6-4	6-6	6-7	6-9	6-10	7-0	7-1
275.00	7-2	7-4	7-6	7-8	7-10	8-0	8-2	8-3	8-5	8-7
300.00	8-7	8-9	8-11	9-2	9-4	9-6	9-8	9-10	10-0	10-2
325.00	10-1	10-3	10-6	10-9	10-11	11-2	11-4	11-7	11-9	12-0
350.00	11-8	11-11	12-2	12-5	12-8	12-11	13-2	13-5	13-8	13-11
375.00	13-5	13-8	14-0	14-3	14-7	14-10	15-2	15-5	15-8	15-11

Stringing Sag Table Using Final Sag							Ruling Span:		300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-2	2-3	2-3	2-4	2-4	2-5	2-5	2-6	2-6	2-7
175.00	2-11	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-5	3-6
200.00	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7
225.00	4-10	5-0	5-1	5-2	5-4	5-5	5-6	5-7	5-8	5-9
250.00	6-0	6-2	6-3	6-5	6-7	6-8	6-10	6-11	7-0	7-1
275.00	7-3	7-5	7-7	7-9	7-11	8-1	8-3	8-5	8-6	8-7
300.00	8-8	8-10	9-1	9-3	9-5	9-8	9-10	10-0	10-2	10-3
325.00	10-2	10-5	10-8	10-10	11-1	11-4	11-6	11-9	11-11	12-0
350.00	11-10	12-1	12-4	12-7	12-10	13-1	13-4	13-7	13-9	13-11
375.00	13-7	13-10	14-2	14-6	14-9	15-1	15-4	15-7	15-10	16-0

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>165 OF 359</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.165
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-10	3-11	4-0	4-0	4-1	4-1	4-2	4-2	4-3	4-3
225.00	4-11	4-11	5-0	5-1	5-2	5-2	5-3	5-4	5-4	5-5
250.00	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-8
275.00	7-4	7-5	7-6	7-7	7-8	7-9	7-10	7-11	8-0	8-1
300.00	8-8	8-10	8-11	9-0	9-2	9-3	9-4	9-5	9-7	9-8
325.00	10-3	10-4	10-6	10-7	10-9	10-10	11-0	11-1	11-3	11-4
350.00	11-10	12-0	12-2	12-3	12-5	12-7	12-9	12-10	13-0	13-2
375.00	13-7	13-9	13-11	14-1	14-3	14-5	14-7	14-9	14-11	15-1
400.00	15-6	15-8	15-10	16-1	16-3	16-5	16-7	16-10	17-0	17-2
425.00	17-6	17-8	17-11	18-2	18-4	18-7	18-9	19-0	19-2	19-5
450.00	19-7	19-10	20-1	20-4	20-7	20-10	21-1	21-3	21-6	21-9
475.00	21-10	22-1	22-5	22-8	22-11	23-2	23-6	23-9	24-0	24-3
500.00	24-2	24-6	24-10	25-1	25-5	25-9	26-0	26-4	26-7	26-10

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-11	3-11	4-0	4-0	4-1	4-2	4-2	4-3	4-3	4-4
225.00	4-11	5-0	5-1	5-1	5-2	5-3	5-4	5-4	5-5	5-5
250.00	6-1	6-2	6-3	6-4	6-5	6-6	6-6	6-7	6-8	6-9
275.00	7-4	7-5	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2
300.00	8-9	8-10	9-0	9-1	9-2	9-4	9-5	9-6	9-7	9-8
325.00	10-3	10-5	10-7	10-8	10-10	10-11	11-1	11-2	11-4	11-4
350.00	11-11	12-1	12-3	12-5	12-6	12-8	12-10	13-0	13-1	13-2
375.00	13-8	13-10	14-1	14-3	14-5	14-7	14-9	14-11	15-1	15-2
400.00	15-7	15-9	16-0	16-2	16-5	16-7	16-9	16-11	17-1	17-3
425.00	17-7	17-10	18-1	18-3	18-6	18-9	18-11	19-2	19-4	19-6
450.00	19-9	20-0	20-3	20-6	20-9	21-0	21-3	21-6	21-8	21-10
475.00	22-0	22-3	22-7	22-10	23-1	23-5	23-8	23-11	24-2	24-4
500.00	24-5	24-8	25-0	25-4	25-8	25-11	26-3	26-6	26-9	27-0

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>166 OF 359</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.166
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS									

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.783	16.57	1484	16.39	1500*
0	0	0	0	0.44	15.42	895	15.14	911
30	0	0	0	0.44	16.33	846	16.03	861
40	0	0	0	0.44	16.62	831	16.32	846
50	0	0	0	0.44	16.91	817	16.6	832
60	0	0	0	0.44	17.2	803	16.88	818
70	0	0	0	0.44	17.48	790	17.15	805
80	0	0	0	0.44	17.76	778	17.43	793
90	0	0	0	0.44	18.03	767	17.69	781
100	0	0	0	0.44	18.3	755	17.96	770
110	0	0	0	0.44	18.57	745	18.22	759
120	0	0	0	0.44	18.77	737	18.48	748
130	0	0	0	0.44	18.93	730	18.74	738
167	0	0	0	0.44	19.54	708	19.54	708
212	0	0	0	0.44	20.26	683	20.26	683

* Design Condition

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>170 OF 359</p> </div>	Indicates Latest Revision		Completely Revised	<div style="border: 1px solid black; padding: 2px;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH810.170</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 1500 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10
100.00	0-5	0-6	0-7	0-9	0-11	1-1	1-2	1-4	1-5	1-6
125.00	0-8	0-10	1-0	1-2	1-5	1-8	1-10	2-1	2-3	2-5
150.00	0-11	1-2	1-5	1-8	2-0	2-4	2-8	3-0	3-3	3-5
175.00	1-3	1-7	1-11	2-4	2-9	3-2	3-8	4-0	4-5	4-8
200.00	1-8	2-0	2-6	3-0	3-7	4-2	4-9	5-3	5-9	6-1

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-9	0-10	0-10
100.00	0-5	0-7	0-8	0-10	1-0	1-2	1-4	1-5	1-5	1-6
125.00	0-8	0-10	1-1	1-4	1-7	1-10	2-0	2-2	2-3	2-5
150.00	1-0	1-3	1-7	1-11	2-3	2-7	2-11	3-1	3-3	3-5
175.00	1-4	1-8	2-1	2-7	3-1	3-6	4-0	4-3	4-5	4-8
200.00	1-9	2-3	2-9	3-5	4-0	4-7	5-2	5-6	5-10	6-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>171 OF 359</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH810.171
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11	0-11	1-0
125.00	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7
150.00	1-2	1-4	1-5	1-7	1-8	1-10	1-11	2-0	2-2	2-3
175.00	1-7	1-9	1-11	2-2	2-4	2-5	2-7	2-9	2-11	3-1
200.00	2-1	2-4	2-7	2-9	3-0	3-3	3-5	3-7	3-10	4-0
225.00	2-8	2-11	3-3	3-6	3-10	4-1	4-4	4-7	4-10	5-1
250.00	3-3	3-8	4-0	4-4	4-8	5-0	5-4	5-8	5-11	6-3

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-8	0-8	0-9	0-10	0-10	0-11	0-11	1-0	1-0
125.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7
150.00	1-3	1-5	1-7	1-8	1-10	1-11	2-0	2-2	2-3	2-4
175.00	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-0	3-1
200.00	2-3	2-6	2-9	3-0	3-2	3-5	3-7	3-10	4-0	4-1
225.00	2-10	3-2	3-6	3-9	4-1	4-4	4-7	4-10	5-0	5-2
250.00	3-6	3-11	4-3	4-8	5-0	5-4	5-8	6-0	6-2	6-4

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>172 OF 359</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH810.172
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span:		300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-4	1-5	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-10
175.00	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7
200.00	2-4	2-6	2-7	2-8	2-10	2-11	3-0	3-2	3-3	3-4
225.00	3-0	3-1	3-3	3-5	3-7	3-8	3-10	4-0	4-1	4-3
250.00	3-8	3-10	4-0	4-3	4-5	4-7	4-9	4-11	5-1	5-3
275.00	4-5	4-8	4-11	5-1	5-4	5-6	5-9	5-11	6-1	6-4
300.00	5-3	5-7	5-10	6-1	6-4	6-7	6-10	7-1	7-3	7-6
325.00	6-2	6-6	6-10	7-2	7-5	7-9	8-0	8-3	8-7	8-10
350.00	7-2	7-7	7-11	8-3	8-7	8-11	9-3	9-7	9-11	10-3
375.00	8-3	8-8	9-1	9-6	9-11	10-3	10-8	11-0	11-5	11-9

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-5	1-5	1-6	1-7	1-8	1-9	1-9	1-10	1-11	1-11
175.00	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-7
200.00	2-5	2-7	2-8	2-10	2-11	3-0	3-2	3-3	3-4	3-5
225.00	3-1	3-3	3-5	3-7	3-8	3-10	4-0	4-1	4-3	4-4
250.00	3-10	4-0	4-3	4-5	4-7	4-9	4-11	5-1	5-3	5-4
275.00	4-8	4-10	5-1	5-4	5-6	5-9	5-11	6-2	6-4	6-6
300.00	5-6	5-10	6-1	6-4	6-7	6-10	7-1	7-4	7-7	7-9
325.00	6-6	6-10	7-2	7-5	7-9	8-0	8-4	8-7	8-10	9-1
350.00	7-6	7-11	8-3	8-8	9-0	9-4	9-8	10-0	10-3	10-6
375.00	8-7	9-1	9-6	9-11	10-4	10-8	11-1	11-5	11-10	12-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 173 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.173
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span: 400.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-5	2-6	2-7	2-8	2-9	2-10	2-10	2-11	3-0	3-1
225.00	3-1	3-2	3-3	3-5	3-6	3-7	3-8	3-8	3-9	3-10
250.00	3-10	3-11	4-1	4-2	4-3	4-5	4-6	4-7	4-8	4-9
275.00	4-8	4-9	4-11	5-1	5-2	5-4	5-5	5-6	5-8	5-9
300.00	5-6	5-8	5-10	6-0	6-2	6-4	6-5	6-7	6-9	6-10
325.00	6-6	6-8	6-10	7-1	7-3	7-5	7-7	7-9	7-11	8-1
350.00	7-6	7-9	8-0	8-2	8-5	8-7	8-9	9-0	9-2	9-4
375.00	8-8	8-11	9-2	9-5	9-7	9-10	10-1	10-4	10-6	10-9
400.00	9-10	10-1	10-5	10-8	10-11	11-3	11-6	11-9	12-0	12-3
425.00	11-1	11-5	11-9	12-1	12-4	12-8	12-11	13-3	13-6	13-10
450.00	12-5	12-10	13-2	13-6	13-10	14-2	14-6	14-10	15-2	15-6
475.00	13-10	14-3	14-8	15-1	15-5	15-10	16-2	16-7	16-11	17-3
500.00	15-5	15-10	16-3	16-8	17-1	17-6	17-11	18-4	18-9	19-1

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-6	2-7	2-8	2-9	2-10	2-11	2-11	3-0	3-1	3-2
225.00	3-2	3-3	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0
250.00	3-11	4-1	4-2	4-3	4-5	4-6	4-7	4-8	4-10	4-11
275.00	4-9	4-11	5-1	5-2	5-4	5-5	5-7	5-8	5-10	5-11
300.00	5-8	5-10	6-0	6-2	6-4	6-6	6-7	6-9	6-11	7-1
325.00	6-8	6-10	7-1	7-3	7-5	7-7	7-9	7-11	8-1	8-3
350.00	7-9	8-0	8-2	8-5	8-7	8-10	9-0	9-3	9-5	9-7
375.00	8-11	9-2	9-5	9-8	9-11	10-1	10-4	10-7	10-10	11-0
400.00	10-1	10-5	10-8	11-0	11-3	11-6	11-9	12-0	12-4	12-6
425.00	11-5	11-9	12-1	12-5	12-8	13-0	13-4	13-7	13-11	14-2
450.00	12-10	13-2	13-6	13-11	14-3	14-7	14-11	15-3	15-7	15-10
475.00	14-3	14-8	15-1	15-6	15-10	16-3	16-7	17-0	17-4	17-8
500.00	15-10	16-3	16-9	17-2	17-7	18-0	18-5	18-10	19-3	19-7

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 174 OF 359		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH810.174
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 176 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH810.176
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS										

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>177 OF 359</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH810.177</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 2000 LBS</p> </div>					

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.783	12.58	1950	12.27	2000*
0	0	0	0	0.44	10.9	1264	10.39	1325
30	0	0	0	0.44	12.07	1142	11.52	1196
40	0	0	0	0.44	12.44	1108	11.89	1160
50	0	0	0	0.44	12.8	1077	12.24	1126
60	0	0	0	0.44	13.16	1048	12.59	1095
70	0	0	0	0.44	13.51	1021	12.94	1066
80	0	0	0	0.44	13.85	996	13.28	1038
90	0	0	0	0.44	14.19	972	13.61	1013
100	0	0	0	0.44	14.52	950	13.94	990
110	0	0	0	0.44	14.85	929	14.26	967
120	0	0	0	0.44	15.16	910	14.58	946
130	0	0	0	0.44	15.37	898	14.89	927
167	0	0	0	0.44	16.07	859	16	863
212	0	0	0	0.44	16.9	817	16.89	818
* Design Condition								

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>178 OF 359</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH810.178</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 2000 LBS</p> </div>						

Completely Revised

	X
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Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.178

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9
100.00	0-3	0-4	0-5	0-6	0-7	0-9	0-10	1-0	1-2	1-3
125.00	0-5	0-6	0-7	0-9	0-11	1-2	1-4	1-7	1-10	2-0
150.00	0-8	0-9	0-11	1-1	1-4	1-7	1-11	2-3	2-7	2-11
175.00	0-11	1-0	1-3	1-6	1-10	2-3	2-8	3-1	3-6	3-11
200.00	1-2	1-4	1-7	1-11	2-4	2-11	3-6	4-1	4-7	5-2

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-8	0-9
100.00	0-4	0-4	0-6	0-7	0-9	0-11	1-1	1-2	1-3	1-3
125.00	0-6	0-7	0-9	0-11	1-2	1-5	1-8	1-9	1-11	2-0
150.00	0-8	0-10	1-1	1-4	1-8	2-0	2-4	2-7	2-9	2-11
175.00	0-11	1-2	1-5	1-10	2-3	2-9	3-2	3-6	3-9	3-11
200.00	1-3	1-6	1-10	2-4	2-11	3-7	4-2	4-7	4-10	5-2

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 179 OF 359	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH810.179
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-9	0-10
125.00	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3
150.00	0-9	0-10	1-0	1-1	1-3	1-4	1-6	1-7	1-9	1-10
175.00	1-0	1-2	1-4	1-6	1-8	1-10	2-0	2-2	2-4	2-6
200.00	1-4	1-6	1-9	1-11	2-2	2-5	2-8	2-10	3-1	3-3
225.00	1-8	1-11	2-2	2-6	2-9	3-0	3-4	3-7	3-11	4-2
250.00	2-1	2-5	2-8	3-0	3-5	3-9	4-1	4-6	4-10	5-2

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-10	0-10
125.00	0-7	0-8	0-9	0-10	1-0	1-1	1-2	1-3	1-4	1-4
150.00	0-10	1-0	1-1	1-3	1-5	1-6	1-8	1-9	1-11	1-11
175.00	1-2	1-4	1-6	1-8	1-11	2-1	2-3	2-5	2-7	2-8
200.00	1-6	1-9	2-0	2-3	2-6	2-9	2-11	3-2	3-4	3-6
225.00	1-11	2-2	2-6	2-10	3-2	3-5	3-9	4-0	4-3	4-5
250.00	2-4	2-9	3-1	3-6	3-10	4-3	4-7	5-0	5-3	5-5

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Stringing Sag Table Using Initial Sag							Ruling Span:		300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-5	1-6
175.00	1-2	1-3	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-1
200.00	1-7	1-8	1-10	1-11	2-1	2-3	2-4	2-5	2-7	2-8
225.00	2-0	2-2	2-4	2-6	2-8	2-10	2-11	3-1	3-3	3-5
250.00	2-5	2-8	2-10	3-1	3-3	3-5	3-8	3-10	4-0	4-2
275.00	2-11	3-2	3-5	3-8	3-11	4-2	4-5	4-8	4-10	5-1
300.00	3-6	3-10	4-1	4-5	4-8	5-0	5-3	5-6	5-10	6-1
325.00	4-1	4-5	4-10	5-2	5-6	5-10	6-2	6-6	6-10	7-1
350.00	4-9	5-2	5-7	6-0	6-4	6-9	7-2	7-6	7-11	8-3
375.00	5-6	5-11	6-5	6-10	7-4	7-9	8-3	8-8	9-1	9-6

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7
175.00	1-4	1-5	1-6	1-8	1-9	1-10	1-11	2-0	2-1	2-2
200.00	1-9	1-10	2-0	2-2	2-3	2-5	2-6	2-8	2-9	2-10
225.00	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8
250.00	2-8	2-11	3-1	3-4	3-7	3-9	3-11	4-2	4-4	4-6
275.00	3-3	3-6	3-9	4-0	4-4	4-6	4-9	5-0	5-3	5-5
300.00	3-10	4-2	4-6	4-10	5-1	5-5	5-8	6-0	6-3	6-6
325.00	4-6	4-11	5-3	5-8	6-0	6-4	6-8	7-0	7-4	7-7
350.00	5-3	5-8	6-1	6-7	6-11	7-4	7-9	8-1	8-6	8-10
375.00	6-0	6-6	7-0	7-6	8-0	8-5	8-11	9-4	9-9	10-1

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>181 OF 359</h2> </div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH810.181	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5
225.00	2-2	2-3	2-4	2-6	2-7	2-8	2-9	2-11	3-0	3-1
250.00	2-8	2-9	2-11	3-1	3-2	3-4	3-5	3-7	3-8	3-9
275.00	3-3	3-4	3-6	3-8	3-10	4-0	4-2	4-4	4-5	4-7
300.00	3-10	4-0	4-3	4-5	4-7	4-9	4-11	5-1	5-3	5-5
325.00	4-6	4-9	4-11	5-2	5-5	5-7	5-10	6-0	6-2	6-5
350.00	5-2	5-6	5-9	6-0	6-3	6-6	6-9	7-0	7-2	7-5
375.00	6-0	6-3	6-7	6-10	7-2	7-5	7-9	8-0	8-3	8-6
400.00	6-10	7-2	7-6	7-10	8-2	8-6	8-9	9-1	9-5	9-8
425.00	7-8	8-1	8-5	8-10	9-2	9-7	9-11	10-3	10-7	10-11
450.00	8-7	9-0	9-6	9-11	10-4	10-9	11-2	11-6	11-11	12-3
475.00	9-7	10-1	10-7	11-0	11-6	11-11	12-5	12-10	13-3	13-8
500.00	10-7	11-2	11-8	12-3	12-9	13-3	13-9	14-3	14-8	15-2

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7
225.00	2-4	2-5	2-6	2-8	2-9	2-10	2-11	3-1	3-2	3-3
250.00	2-10	3-0	3-1	3-3	3-5	3-6	3-8	3-9	3-11	4-0
275.00	3-5	3-7	3-9	3-11	4-1	4-3	4-5	4-7	4-8	4-10
300.00	4-1	4-3	4-6	4-8	4-10	5-1	5-3	5-5	5-7	5-9
325.00	4-10	5-0	5-3	5-6	5-9	5-11	6-2	6-4	6-7	6-9
350.00	5-7	5-10	6-1	6-4	6-8	6-11	7-2	7-4	7-7	7-10
375.00	6-5	6-8	7-0	7-4	7-7	7-11	8-2	8-5	8-9	9-0
400.00	7-3	7-8	8-0	8-4	8-8	9-0	9-4	9-7	9-11	10-3
425.00	8-2	8-7	9-0	9-5	9-9	10-2	10-6	10-10	11-2	11-7
450.00	9-2	9-8	10-1	10-6	11-0	11-5	11-9	12-2	12-7	12-11
475.00	10-3	10-9	11-3	11-9	12-3	12-8	13-2	13-7	14-0	14-5
500.00	11-4	11-11	12-6	13-0	13-6	14-1	14-7	15-0	15-6	16-0

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SHEET 182 OF 359	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH810.182
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS					

* Design Condition

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 184 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.184
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS									

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.783	3.77	2340	3.53	2500*
0	0	0	0	0.44	2.28	2170	2.06	2400
30	0	0	0	0.44	3.16	1568	2.71	1825
40	0	0	0	0.44	3.48	1422	2.98	1664
50	0	0	0	0.44	3.81	1300	3.26	1521
60	0	0	0	0.44	4.14	1198	3.55	1396
70	0	0	0	0.44	4.46	1112	3.85	1288
80	0	0	0	0.44	4.77	1039	4.15	1195
90	0	0	0	0.44	5.07	977	4.44	1115
100	0	0	0	0.44	5.37	923	4.74	1046
110	0	0	0	0.44	5.63	880	5.03	986
120	0	0	0	0.44	5.79	857	5.31	933
130	0	0	0	0.44	5.94	835	5.59	887
167	0	0	0	0.44	6.5	763	6.49	765
212	0	0	0	0.44	7.16	693	7.15	694

* Design Condition

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.783	6.62	2368	6.27	2500*
0	0	0	0	0.44	4.69	1876	4.21	2090
30	0	0	0	0.44	5.88	1498	5.22	1686
40	0	0	0	0.44	6.27	1405	5.58	1579
50	0	0	0	0.44	6.66	1323	5.94	1483
60	0	0	0	0.44	7.03	1252	6.3	1399
70	0	0	0	0.44	7.4	1190	6.65	1324
80	0	0	0	0.44	7.76	1135	7.01	1257
90	0	0	0	0.44	8.12	1086	7.36	1198
100	0	0	0	0.44	8.46	1042	7.7	1145
110	0	0	0	0.44	8.79	1003	8.03	1097
120	0	0	0	0.44	9.08	971	8.36	1054
130	0	0	0	0.44	9.27	952	8.68	1016
167	0	0	0	0.44	9.94	888	9.81	899
212	0	0	0	0.44	10.72	823	10.7	825

* Design Condition

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SHEET 185 OF 359	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH810.185
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS					

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.783	10.24	2394	9.81	2500*
0	0	0	0	0.44	8.08	1704	7.38	1864
30	0	0	0	0.44	9.41	1463	8.62	1598
40	0	0	0	0.44	9.84	1399	9.03	1525
50	0	0	0	0.44	10.27	1342	9.43	1460
60	0	0	0	0.44	10.68	1290	9.83	1400
70	0	0	0	0.44	11.08	1243	10.23	1347
80	0	0	0	0.44	11.48	1201	10.62	1297
90	0	0	0	0.44	11.86	1162	11	1252
100	0	0	0	0.44	12.24	1126	11.38	1211
110	0	0	0	0.44	12.61	1093	11.75	1173
120	0	0	0	0.44	12.97	1063	12.11	1138
130	0	0	0	0.44	13.26	1040	12.46	1106
167	0	0	0	0.44	14.02	984	13.73	1005
212	0	0	0	0.44	14.92	925	14.88	927
* Design Condition								

* Design Condition

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>186 OF 359</p> </div>	Indicates Latest Revision	Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH810.186</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 2500 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7
100.00	0-3	0-3	0-3	0-4	0-5	0-6	0-7	0-9	0-10	1-0
125.00	0-4	0-5	0-5	0-6	0-7	0-9	0-11	1-1	1-4	1-7
150.00	0-6	0-7	0-8	0-9	0-11	1-1	1-4	1-7	1-11	2-3
175.00	0-8	0-9	0-11	1-0	1-3	1-6	1-10	2-2	2-8	3-1
200.00	0-11	1-0	1-2	1-4	1-7	1-11	2-4	2-10	3-5	4-0

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-4	0-5	0-6	0-6	0-7	0-7
100.00	0-3	0-3	0-4	0-5	0-6	0-8	0-10	0-11	1-0	1-1
125.00	0-5	0-5	0-7	0-8	0-10	1-1	1-4	1-5	1-7	1-8
150.00	0-7	0-8	0-9	1-0	1-3	1-6	1-10	2-1	2-3	2-5
175.00	0-9	0-11	1-1	1-4	1-8	2-1	2-7	2-10	3-1	3-3
200.00	1-0	1-2	1-5	1-9	2-2	2-9	3-4	3-8	4-0	4-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 187 OF 359		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH810.187
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS											

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8
125.00	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-10	1-0	1-1
150.00	0-7	0-7	0-8	0-9	0-11	1-0	1-2	1-3	1-5	1-6
175.00	0-9	0-10	0-11	1-1	1-3	1-4	1-6	1-9	1-11	2-1
200.00	1-0	1-1	1-3	1-5	1-7	1-9	2-0	2-3	2-6	2-8
225.00	1-3	1-5	1-7	1-9	2-0	2-3	2-7	2-10	3-2	3-5
250.00	1-6	1-9	1-11	2-2	2-6	2-10	3-2	3-6	3-10	4-3

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-5	0-6	0-7	0-7	0-8	0-9	0-9
125.00	0-5	0-6	0-7	0-8	0-9	0-10	1-0	1-1	1-2	1-2
150.00	0-8	0-9	0-10	1-0	1-1	1-3	1-5	1-6	1-8	1-8
175.00	0-10	1-0	1-2	1-4	1-6	1-8	1-11	2-1	2-3	2-4
200.00	1-1	1-3	1-6	1-9	2-0	2-3	2-6	2-8	2-11	3-0
225.00	1-5	1-8	1-11	2-2	2-6	2-10	3-1	3-5	3-8	3-10
250.00	1-9	2-0	2-4	2-8	3-1	3-6	3-10	4-3	4-6	4-9

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-3
175.00	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-6	1-7	1-9
200.00	1-1	1-2	1-4	1-5	1-7	1-9	1-10	2-0	2-1	2-3
225.00	1-5	1-6	1-8	1-10	2-0	2-2	2-4	2-6	2-8	2-10
250.00	1-9	1-11	2-1	2-3	2-6	2-8	2-11	3-1	3-3	3-6
275.00	2-1	2-3	2-6	2-9	3-0	3-3	3-6	3-9	4-0	4-3
300.00	2-6	2-9	3-0	3-3	3-7	3-10	4-2	4-5	4-9	5-0
325.00	2-11	3-2	3-6	3-10	4-2	4-6	4-10	5-3	5-7	5-11
350.00	3-4	3-8	4-1	4-5	4-10	5-3	5-8	6-1	6-5	6-10
375.00	3-10	4-3	4-8	5-1	5-7	6-0	6-6	6-11	7-5	7-10

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
175.00	1-0	1-1	1-2	1-4	1-5	1-6	1-7	1-9	1-10	1-11
200.00	1-3	1-5	1-7	1-8	1-10	2-0	2-1	2-3	2-5	2-6
225.00	1-7	1-9	2-0	2-2	2-4	2-6	2-8	2-10	3-0	3-2
250.00	2-0	2-2	2-5	2-8	2-10	3-1	3-4	3-6	3-9	3-11
275.00	2-5	2-8	2-11	3-2	3-6	3-9	4-0	4-3	4-6	4-9
300.00	2-10	3-2	3-6	3-10	4-2	4-5	4-9	5-1	5-4	5-8
325.00	3-4	3-8	4-1	4-6	4-10	5-3	5-7	5-11	6-4	6-7
350.00	3-10	4-4	4-9	5-2	5-8	6-1	6-6	6-11	7-4	7-8
375.00	4-5	4-11	5-5	5-11	6-6	7-0	7-5	7-11	8-5	8-10

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0
225.00	1-6	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-5	2-6
250.00	1-11	2-0	2-2	2-4	2-6	2-7	2-9	2-10	3-0	3-2
275.00	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-10
300.00	2-9	2-11	3-2	3-4	3-7	3-9	3-11	4-2	4-4	4-6
325.00	3-3	3-5	3-8	3-11	4-2	4-5	4-8	4-10	5-1	5-4
350.00	3-9	4-0	4-3	4-7	4-10	5-1	5-4	5-8	5-11	6-2
375.00	4-3	4-7	4-11	5-3	5-6	5-10	6-2	6-6	6-9	7-1
400.00	4-10	5-3	5-7	5-11	6-4	6-8	7-0	7-4	7-8	8-0
425.00	5-6	5-11	6-4	6-8	7-1	7-6	7-11	8-4	8-8	9-1
450.00	6-2	6-7	7-1	7-6	8-0	8-5	8-10	9-4	9-9	10-2
475.00	6-10	7-4	7-10	8-4	8-11	9-5	9-11	10-4	10-10	11-4
500.00	7-7	8-2	8-9	9-3	9-10	10-5	10-11	11-6	12-0	12-7

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-4	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2
225.00	1-9	1-10	2-0	2-1	2-3	2-4	2-5	2-7	2-8	2-9
250.00	2-2	2-4	2-5	2-7	2-9	2-11	3-0	3-2	3-4	3-5
275.00	2-7	2-9	3-0	3-2	3-4	3-6	3-8	3-10	4-0	4-2
300.00	3-1	3-4	3-6	3-9	3-11	4-2	4-4	4-7	4-9	4-11
325.00	3-7	3-11	4-2	4-5	4-8	4-11	5-1	5-4	5-7	5-10
350.00	4-2	4-6	4-10	5-1	5-5	5-8	5-11	6-3	6-6	6-9
375.00	4-10	5-2	5-6	5-10	6-2	6-6	6-10	7-2	7-5	7-9
400.00	5-6	5-11	6-3	6-8	7-0	7-5	7-9	8-1	8-5	8-9
425.00	6-2	6-8	7-1	7-6	7-11	8-4	8-9	9-2	9-7	9-11
450.00	6-11	7-5	7-11	8-5	8-11	9-4	9-10	10-3	10-8	11-2
475.00	7-9	8-4	8-10	9-5	9-11	10-5	10-11	11-5	11-11	12-5
500.00	8-7	9-2	9-10	10-5	11-0	11-7	12-2	12-8	13-3	13-9


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Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.783	1.44	2720	1.31	3000*
0	0	0	0	0.44	0.71	3087	0.67	3297
30	0	0	0	0.44	1.03	2139	0.86	2571
40	0	0	0	0.44	1.18	1858	0.94	2330
50	0	0	0	0.44	1.37	1607	1.05	2093
60	0	0	0	0.44	1.58	1390	1.18	1865
70	0	0	0	0.44	1.82	1210	1.33	1651
80	0	0	0	0.44	2.07	1065	1.51	1456
90	0	0	0	0.44	2.32	951	1.71	1284
100	0	0	0	0.44	2.51	876	1.93	1139
110	0	0	0	0.44	2.63	837	2.16	1018
120	0	0	0	0.44	2.75	801	2.39	920
130	0	0	0	0.44	2.87	768	2.62	839
167	0	0	0	0.44	3.31	665	3.29	670
212	0	0	0	0.44	3.83	575	3.81	578

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>192 OF 359</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH810.192</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 3000 LBS</p> </div>				

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>193 OF 359</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH810.193
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.783	8.7	2818	8.17	3000*
0	0	0	0	0.44	6.21	2217	5.47	2515
30	0	0	0	0.44	7.58	1816	6.59	2087
40	0	0	0	0.44	8.04	1713	7	1967
50	0	0	0	0.44	8.49	1621	7.41	1858
60	0	0	0	0.44	8.94	1540	7.82	1760
70	0	0	0	0.44	9.38	1468	8.24	1671
80	0	0	0	0.44	9.81	1404	8.65	1591
90	0	0	0	0.44	10.23	1346	9.07	1519
100	0	0	0	0.44	10.64	1294	9.47	1454
110	0	0	0	0.44	11.05	1247	9.88	1394
120	0	0	0	0.44	11.44	1204	10.27	1341
130	0	0	0	0.44	11.79	1169	10.66	1292
167	0	0	0	0.44	12.58	1095	12.05	1144
212	0	0	0	0.44	13.53	1020	13.46	1024

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>194 OF 359</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH810.194</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 3000 LBS</p> </div>				

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-6	0-7	0-9
125.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-9	0-11	1-2
150.00	0-5	0-6	0-6	0-7	0-8	0-9	0-11	1-1	1-4	1-7
175.00	0-7	0-8	0-8	0-9	0-11	1-0	1-3	1-6	1-10	2-2
200.00	0-9	0-10	0-11	1-0	1-2	1-4	1-7	1-11	2-4	2-11

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-1	0-2	0-2	0-2	0-3	0-4	0-4	0-5	0-5	0-6
100.00	0-3	0-3	0-3	0-4	0-5	0-6	0-8	0-9	0-10	0-10
125.00	0-4	0-4	0-5	0-6	0-8	0-10	1-0	1-2	1-3	1-4
150.00	0-6	0-6	0-8	0-9	0-11	1-2	1-6	1-8	1-10	2-0
175.00	0-8	0-9	0-10	1-0	1-3	1-7	2-0	2-3	2-6	2-8
200.00	0-10	1-0	1-1	1-4	1-8	2-1	2-7	3-0	3-3	3-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		
SHEET 195 OF 359		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									OH810.195
		STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS									

Stringing Sag Table Using Initial Sag										Ruling Span: 200.0 Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-6
125.00	0-4	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-9	0-10
150.00	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0	1-1	1-3
175.00	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-6	1-8
200.00	0-9	0-10	0-11	1-1	1-2	1-4	1-6	1-9	1-11	2-2
225.00	1-0	1-1	1-2	1-4	1-6	1-8	1-11	2-2	2-5	2-9
250.00	1-3	1-4	1-6	1-8	1-10	2-1	2-4	2-8	3-0	3-5

Stringing Sag Table Using Final Sag										Ruling Span: 200.0 Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-8
125.00	0-4	0-5	0-6	0-6	0-7	0-9	0-10	0-11	1-0	1-0
150.00	0-6	0-7	0-8	0-9	0-11	1-0	1-2	1-4	1-5	1-6
175.00	0-8	0-9	0-11	1-1	1-3	1-5	1-7	1-9	1-11	2-0
200.00	0-11	1-0	1-2	1-4	1-7	1-10	2-1	2-4	2-6	2-8
225.00	1-2	1-4	1-6	1-9	2-0	2-4	2-7	2-11	3-2	3-4
250.00	1-5	1-7	1-10	2-2	2-6	2-10	3-3	3-7	3-11	4-1

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 196 OF 359	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH810.196
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span: 300.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-0
175.00	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-5
200.00	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-7	1-9	1-10
225.00	1-1	1-2	1-3	1-5	1-6	1-8	1-10	2-0	2-2	2-4
250.00	1-4	1-5	1-7	1-9	1-11	2-1	2-3	2-6	2-8	2-11
275.00	1-7	1-9	1-11	2-1	2-3	2-6	2-9	3-0	3-3	3-6
300.00	1-11	2-1	2-3	2-6	2-9	3-0	3-3	3-7	3-10	4-2
325.00	2-3	2-5	2-8	2-11	3-2	3-6	3-10	4-2	4-6	4-11
350.00	2-7	2-10	3-1	3-4	3-8	4-1	4-5	4-10	5-3	5-8
375.00	2-11	3-3	3-6	3-10	4-3	4-8	5-1	5-7	6-0	6-6

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3
175.00	0-9	0-10	0-11	1-1	1-2	1-3	1-5	1-6	1-7	1-8
200.00	1-0	1-1	1-3	1-4	1-6	1-8	1-10	1-11	2-1	2-3
225.00	1-3	1-5	1-7	1-9	1-11	2-1	2-3	2-6	2-8	2-10
250.00	1-7	1-9	1-11	2-2	2-4	2-7	2-10	3-1	3-3	3-6
275.00	1-10	2-1	2-4	2-7	2-10	3-2	3-5	3-8	3-11	4-2
300.00	2-3	2-6	2-9	3-1	3-5	3-9	4-1	4-5	4-8	5-0
325.00	2-7	2-11	3-3	3-8	4-0	4-5	4-9	5-2	5-6	5-10
350.00	3-0	3-5	3-9	4-2	4-8	5-1	5-6	6-0	6-5	6-9
375.00	3-6	3-11	4-4	4-10	5-4	5-10	6-4	6-10	7-4	7-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 197 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.197
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
225.00	1-2	1-3	1-4	1-5	1-7	1-8	1-9	1-11	2-0	2-2
250.00	1-5	1-7	1-8	1-10	1-11	2-1	2-2	2-4	2-6	2-8
275.00	1-9	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-0	3-2
300.00	2-1	2-3	2-5	2-7	2-9	3-0	3-2	3-5	3-7	3-9
325.00	2-5	2-7	2-10	3-0	3-3	3-6	3-9	4-0	4-2	4-5
350.00	2-10	3-0	3-3	3-6	3-9	4-1	4-4	4-7	4-11	5-2
375.00	3-3	3-6	3-9	4-0	4-4	4-8	5-0	5-3	5-7	5-11
400.00	3-8	3-11	4-3	4-7	4-11	5-3	5-8	6-0	6-4	6-9
425.00	4-2	4-6	4-10	5-2	5-7	6-0	6-4	6-9	7-2	7-7
450.00	4-8	5-0	5-5	5-10	6-3	6-8	7-2	7-7	8-1	8-6
475.00	5-2	5-7	6-0	6-6	6-11	7-5	8-0	8-6	9-0	9-6
500.00	5-9	6-2	6-8	7-2	7-8	8-3	8-10	9-5	9-11	10-6

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-1	1-2	1-3	1-4	1-6	1-7	1-8	1-9	1-10	1-11
225.00	1-4	1-6	1-7	1-9	1-10	2-0	2-1	2-3	2-4	2-5
250.00	1-8	1-10	2-0	2-2	2-3	2-5	2-7	2-9	2-11	3-0
275.00	2-0	2-3	2-5	2-7	2-9	2-11	3-2	3-4	3-6	3-8
300.00	2-5	2-8	2-10	3-1	3-4	3-6	3-9	3-11	4-2	4-4
325.00	2-10	3-1	3-4	3-7	3-10	4-2	4-5	4-8	4-11	5-1
350.00	3-3	3-7	3-11	4-2	4-6	4-9	5-1	5-4	5-8	5-11
375.00	3-9	4-1	4-5	4-10	5-2	5-6	5-10	6-2	6-6	6-10
400.00	4-4	4-8	5-1	5-6	5-10	6-3	6-8	7-0	7-5	7-9
425.00	4-10	5-3	5-9	6-2	6-7	7-1	7-6	7-11	8-4	8-9
450.00	5-5	5-11	6-5	6-11	7-5	7-11	8-5	8-11	9-4	9-10
475.00	6-1	6-7	7-2	7-9	8-3	8-10	9-4	9-11	10-5	10-11
500.00	6-9	7-4	7-11	8-7	9-2	9-9	10-5	11-0	11-7	12-1

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[illegible]

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-9	1-11	2-0	2-1	2-3	2-4	2-5	2-7	2-8	2-9
275.00	2-2	2-4	2-5	2-7	2-8	2-10	3-0	3-1	3-3	3-4
300.00	2-7	2-9	2-11	3-1	3-3	3-4	3-6	3-8	3-10	4-0
325.00	3-0	3-2	3-5	3-7	3-9	4-0	4-2	4-4	4-6	4-8
350.00	3-6	3-9	3-11	4-2	4-5	4-7	4-10	5-0	5-3	5-5
375.00	4-0	4-3	4-6	4-9	5-0	5-3	5-6	5-9	6-0	6-3
400.00	4-7	4-10	5-2	5-5	5-9	6-0	6-3	6-7	6-10	7-1
425.00	5-2	5-6	5-10	6-2	6-5	6-9	7-1	7-5	7-8	8-0
450.00	5-9	6-2	6-6	6-11	7-3	7-7	7-11	8-3	8-7	8-11
475.00	6-5	6-10	7-3	7-8	8-1	8-6	8-10	9-3	9-7	10-0
500.00	7-1	7-7	8-0	8-6	8-11	9-5	9-10	10-3	10-8	11-1
525.00	7-10	8-4	8-10	9-4	9-10	10-4	10-10	11-3	11-9	12-2
550.00	8-7	9-2	9-9	10-3	10-10	11-4	11-10	12-5	12-11	13-4
575.00	9-5	10-0	10-8	11-3	11-10	12-5	13-0	13-6	14-1	14-7
600.00	10-3	10-11	11-7	12-3	12-10	13-6	14-2	14-9	15-4	15-11
625.00	11-1	11-10	12-7	13-3	14-0	14-8	15-4	16-0	16-8	17-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 199 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.199
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.194	38.2	1000	38.19	1000*
20	0	0	0	0.44	37.56	374	37.52	375
30	0	0	0	0.44	37.69	373	37.65	374
40	0	0	0	0.44	37.83	372	37.78	372
50	0	0	0	0.44	37.96	371	37.91	371
60	0	0	0	0.44	38.1	369	38.04	370
70	0	0	0	0.44	38.23	368	38.17	369
80	0	0	0	0.44	38.37	367	38.31	367
90	0	0	0	0.44	38.48	366	38.44	366
100	0	0	0	0.44	38.57	365	38.57	365
110	0	0	0	0.44	38.66	364	38.66	364
120	0	0	0	0.44	38.75	363	38.75	363
130	0	0	0	0.44	38.84	363	38.84	363
167	0	0	0	0.44	39.16	360	39.16	360
212	0	0	0	0.44	39.55	356	39.55	356

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET
202 OF 359

Indicates Latest Revision

Completely Revised



New Page

Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.202

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1
100.00	0-10	0-11	1-1	1-3	1-4	1-6	1-7	1-9	1-10	1-10
125.00	1-3	1-6	1-9	1-11	2-2	2-4	2-6	2-8	2-10	2-11
150.00	1-10	2-2	2-6	2-9	3-1	3-4	3-7	3-10	4-0	4-2
175.00	2-6	2-11	3-4	3-9	4-2	4-7	4-11	5-3	5-6	5-8
200.00	3-3	3-10	4-5	4-11	5-5	5-11	6-5	6-10	7-2	7-5

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-6	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-0	1-1
100.00	0-10	1-0	1-2	1-3	1-5	1-6	1-8	1-9	1-10	1-10
125.00	1-4	1-7	1-9	2-0	2-3	2-5	2-7	2-8	2-10	2-11
150.00	1-11	2-3	2-7	2-11	3-2	3-6	3-9	3-11	4-0	4-2
175.00	2-7	3-0	3-6	3-11	4-4	4-9	5-1	5-3	5-6	5-8
200.00	3-4	4-0	4-7	5-2	5-8	6-2	6-8	6-11	7-2	7-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 203 OF 359	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH810.203
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-4	1-4	1-5	1-5	1-6	1-6	1-6	1-7	1-7	1-7
125.00	2-1	2-2	2-2	2-3	2-3	2-4	2-5	2-5	2-6	2-6
150.00	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-6	3-7	3-7
175.00	4-1	4-2	4-3	4-5	4-6	4-7	4-8	4-9	4-10	4-11
200.00	5-4	5-5	5-7	5-9	5-10	6-0	6-1	6-3	6-4	6-5
225.00	6-9	6-11	7-1	7-3	7-5	7-7	7-9	7-11	8-0	8-2
250.00	8-4	8-6	8-9	8-11	9-2	9-4	9-7	9-9	9-11	10-1

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-4	1-4	1-5	1-5	1-6	1-6	1-6	1-7	1-7	1-7
125.00	2-1	2-2	2-2	2-3	2-4	2-4	2-5	2-5	2-6	2-6
150.00	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-6	3-7	3-7
175.00	4-1	4-2	4-4	4-5	4-6	4-7	4-9	4-10	4-10	4-11
200.00	5-4	5-6	5-8	5-9	5-11	6-0	6-2	6-3	6-4	6-5
225.00	6-9	6-11	7-2	7-4	7-6	7-8	7-10	7-11	8-0	8-2
250.00	8-4	8-7	8-10	9-0	9-3	9-5	9-8	9-10	9-11	10-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>204 OF 359</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH810.204
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-3	3-3	3-3	3-4	3-4	3-5	3-5	3-5	3-6	3-6
175.00	4-4	4-5	4-6	4-6	4-7	4-7	4-8	4-8	4-9	4-9
200.00	5-9	5-9	5-10	5-11	5-11	6-0	6-1	6-1	6-2	6-3
225.00	7-3	7-4	7-5	7-5	7-6	7-7	7-8	7-9	7-10	7-10
250.00	8-11	9-0	9-1	9-2	9-4	9-5	9-6	9-7	9-8	9-9
275.00	10-10	10-11	11-0	11-2	11-3	11-4	11-6	11-7	11-8	11-9
300.00	12-10	13-0	13-2	13-3	13-5	13-6	13-8	13-9	13-11	14-0
325.00	15-1	15-3	15-5	15-7	15-9	15-11	16-0	16-2	16-4	16-5
350.00	17-6	17-9	17-11	18-1	18-3	18-5	18-7	18-9	19-0	19-1
375.00	20-2	20-4	20-7	20-9	21-0	21-2	21-5	21-7	21-9	21-11

Stringing Sag Table Using Final Sag							Ruling Span: 300.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-3	3-3	3-3	3-4	3-4	3-5	3-5	3-5	3-6	3-6
175.00	4-5	4-5	4-6	4-6	4-7	4-7	4-8	4-8	4-9	4-9
200.00	5-9	5-9	5-10	5-11	6-0	6-0	6-1	6-2	6-2	6-3
225.00	7-3	7-4	7-5	7-6	7-7	7-8	7-9	7-9	7-10	7-10
250.00	8-11	9-1	9-2	9-3	9-4	9-5	9-6	9-7	9-8	9-9
275.00	10-10	10-11	11-1	11-2	11-4	11-5	11-6	11-7	11-8	11-9
300.00	12-11	13-1	13-2	13-4	13-5	13-7	13-9	13-10	13-11	14-0
325.00	15-2	15-4	15-6	15-8	15-10	15-11	16-1	16-3	16-4	16-5
350.00	17-7	17-9	18-0	18-2	18-4	18-6	18-8	18-10	19-0	19-1
375.00	20-2	20-5	20-8	20-10	21-1	21-3	21-6	21-8	21-9	21-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 205 OF 359		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH810.205
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS											

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-10	5-11	5-11	6-0	6-0	6-0	6-1	6-1	6-2	6-2
225.00	7-5	7-6	7-6	7-7	7-7	7-8	7-8	7-9	7-9	7-9
250.00	9-2	9-3	9-3	9-4	9-5	9-5	9-6	9-6	9-7	9-7
275.00	11-1	11-2	11-3	11-4	11-4	11-5	11-6	11-6	11-7	11-8
300.00	13-3	13-4	13-5	13-5	13-6	13-7	13-8	13-9	13-10	13-10
325.00	15-6	15-7	15-8	15-9	15-11	16-0	16-1	16-2	16-3	16-3
350.00	18-0	18-1	18-3	18-4	18-5	18-6	18-7	18-9	18-10	18-11
375.00	20-8	20-10	20-11	21-1	21-2	21-3	21-5	21-6	21-7	21-8
400.00	23-7	23-8	23-10	24-0	24-1	24-3	24-4	24-6	24-7	24-8
425.00	26-7	26-9	26-11	27-1	27-3	27-4	27-6	27-8	27-10	27-11
450.00	29-10	30-0	30-2	30-4	30-6	30-8	30-10	31-0	31-2	31-4
475.00	33-3	33-6	33-8	33-10	34-0	34-3	34-5	34-7	34-9	34-11
500.00	36-11	37-1	37-4	37-6	37-9	37-11	38-2	38-4	38-7	38-8

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-11	5-11	5-11	6-0	6-0	6-1	6-1	6-1	6-2	6-2
225.00	7-5	7-6	7-6	7-7	7-7	7-8	7-8	7-9	7-9	7-9
250.00	9-2	9-3	9-4	9-4	9-5	9-5	9-6	9-7	9-7	9-7
275.00	11-2	11-2	11-3	11-4	11-5	11-5	11-6	11-7	11-7	11-8
300.00	13-3	13-4	13-5	13-6	13-7	13-8	13-8	13-9	13-10	13-10
325.00	15-7	15-8	15-9	15-10	15-11	16-0	16-1	16-2	16-3	16-3
350.00	18-1	18-2	18-3	18-4	18-6	18-7	18-8	18-9	18-10	18-11
375.00	20-9	20-10	21-0	21-1	21-2	21-4	21-5	21-6	21-7	21-8
400.00	23-7	23-9	23-10	24-0	24-2	24-3	24-5	24-6	24-7	24-8
425.00	26-8	26-10	27-0	27-1	27-3	27-5	27-7	27-8	27-10	27-11
450.00	29-11	30-1	30-3	30-5	30-7	30-9	30-11	31-1	31-2	31-4
475.00	33-4	33-6	33-9	33-11	34-1	34-4	34-6	34-8	34-9	34-11
500.00	37-0	37-2	37-5	37-7	37-10	38-0	38-3	38-5	38-7	38-8

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[illegible]

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.194	16.07	1495	16.02	1500*
20	0	0	0	0.44	14.92	593	14.79	598
30	0	0	0	0.44	15.13	585	15	590
40	0	0	0	0.44	15.33	577	15.2	582
50	0	0	0	0.44	15.54	570	15.4	575
60	0	0	0	0.44	15.74	562	15.6	568
70	0	0	0	0.44	15.94	555	15.79	561
80	0	0	0	0.44	16.14	549	15.99	554
90	0	0	0	0.44	16.34	542	16.18	547
100	0	0	0	0.44	16.52	536	16.37	541
110	0	0	0	0.44	16.64	532	16.56	535
120	0	0	0	0.44	16.77	528	16.74	529
130	0	0	0	0.44	16.9	525	16.9	525
167	0	0	0	0.44	17.35	511	17.35	511
212	0	0	0	0.44	17.88	496	17.88	496

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>209 OF 359</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH810.209
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.194	25.18	1497	25.13	1500*
20	0	0	0	0.44	24.02	578	23.9	581
30	0	0	0	0.44	24.23	573	24.1	576
40	0	0	0	0.44	24.44	568	24.3	571
50	0	0	0	0.44	24.64	563	24.5	567
60	0	0	0	0.44	24.85	559	24.7	562
70	0	0	0	0.44	25.05	554	24.9	558
80	0	0	0	0.44	25.25	550	25.09	554
90	0	0	0	0.44	25.44	546	25.29	549
100	0	0	0	0.44	25.64	542	25.48	545
110	0	0	0	0.44	25.76	539	25.67	541
120	0	0	0	0.44	25.89	537	25.86	537
130	0	0	0	0.44	26.02	534	26.02	534
167	0	0	0	0.44	26.49	525	26.49	525
212	0	0	0	0.44	27.05	514	27.05	514
* Design Condition								

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>210 OF 359</p> </div>	Indicates Latest Revision		Completely Revised	New Page	Information Removed	<div style="text-align: center;"> <p>OH810.210</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 1500 LBS</p> </div>					

Completely Revised



Information Removed

OH810.210

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-8	0-9
100.00	0-4	0-5	0-5	0-7	0-8	0-10	1-0	1-1	1-3	1-4
125.00	0-6	0-7	0-9	0-10	1-1	1-3	1-6	1-9	1-11	2-2
150.00	0-9	0-10	1-0	1-3	1-6	1-10	2-2	2-6	2-10	3-1
175.00	1-0	1-2	1-5	1-8	2-1	2-6	3-0	3-5	3-10	4-2
200.00	1-4	1-6	1-10	2-3	2-9	3-4	3-11	4-5	5-0	5-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-4	0-4	0-5	0-7	0-8	0-8	0-9	0-9
100.00	0-4	0-5	0-6	0-8	0-10	1-0	1-1	1-3	1-3	1-4
125.00	0-6	0-8	0-10	1-0	1-3	1-6	1-9	1-11	2-0	2-2
150.00	0-9	0-11	1-2	1-6	1-10	2-2	2-6	2-9	2-11	3-1
175.00	1-0	1-3	1-7	2-0	2-6	3-0	3-5	3-9	3-11	4-2
200.00	1-4	1-8	2-1	2-8	3-3	3-11	4-6	4-10	5-2	5-6

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[illegible]

Stringing Sag Table Using Initial Sag							Ruling Span: 200.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-1
125.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-9
150.00	1-7	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-5	2-6
175.00	2-1	2-3	2-5	2-7	2-9	2-11	3-0	3-2	3-4	3-5
200.00	2-9	3-0	3-2	3-5	3-7	3-9	3-11	4-2	4-4	4-6
225.00	3-6	3-9	4-0	4-3	4-6	4-9	5-0	5-3	5-5	5-8
250.00	4-3	4-8	5-0	5-3	5-7	5-11	6-2	6-6	6-9	7-0

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2
125.00	1-1	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-9	1-9
150.00	1-7	1-9	1-10	2-0	2-1	2-2	2-4	2-5	2-6	2-6
175.00	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-3	3-5	3-5
200.00	2-10	3-1	3-4	3-6	3-9	3-11	4-1	4-3	4-5	4-6
225.00	3-8	3-11	4-2	4-6	4-9	5-0	5-2	5-5	5-7	5-9
250.00	4-6	4-10	5-2	5-6	5-10	6-2	6-5	6-8	6-11	7-1

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-11	2-0	2-0	2-1	2-2	2-2	2-3	2-3	2-4	2-4
175.00	2-8	2-8	2-9	2-10	2-11	3-0	3-1	3-1	3-2	3-3
200.00	3-5	3-6	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3
225.00	4-4	4-6	4-7	4-8	4-10	4-11	5-0	5-2	5-3	5-4
250.00	5-5	5-6	5-8	5-10	5-11	6-1	6-3	6-4	6-6	6-7
275.00	6-6	6-8	6-10	7-0	7-2	7-4	7-6	7-8	7-10	8-0
300.00	7-9	7-11	8-2	8-4	8-7	8-9	8-11	9-2	9-4	9-6
325.00	9-1	9-4	9-7	9-10	10-1	10-3	10-6	10-9	10-11	11-2
350.00	10-7	10-10	11-1	11-5	11-8	11-11	12-2	12-5	12-8	12-11
375.00	12-1	12-5	12-9	13-1	13-5	13-8	14-0	14-4	14-7	14-10

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-0	2-0	2-1	2-2	2-2	2-3	2-3	2-4	2-4	2-5
175.00	2-8	2-9	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-3
200.00	3-6	3-7	3-8	3-9	3-10	4-0	4-1	4-2	4-2	4-3
225.00	4-5	4-7	4-8	4-9	4-11	5-0	5-1	5-3	5-4	5-5
250.00	5-6	5-7	5-9	5-11	6-1	6-2	6-4	6-5	6-7	6-8
275.00	6-7	6-10	7-0	7-2	7-4	7-6	7-8	7-10	7-11	8-1
300.00	7-10	8-1	8-4	8-6	8-9	8-11	9-1	9-4	9-6	9-7
325.00	9-3	9-6	9-9	10-0	10-3	10-6	10-8	10-11	11-1	11-3
350.00	10-9	11-0	11-4	11-7	11-10	12-2	12-5	12-8	12-11	13-1
375.00	12-4	12-8	13-0	13-4	13-7	13-11	14-3	14-6	14-10	15-0

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 213 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.213
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-0	6-0	6-1	6-1	6-2	6-3	6-3	6-4	6-4	6-5
275.00	7-3	7-3	7-4	7-5	7-5	7-6	7-7	7-8	7-8	7-9
300.00	8-7	8-8	8-9	8-10	8-10	8-11	9-0	9-1	9-2	9-3
325.00	10-1	10-2	10-3	10-4	10-5	10-6	10-7	10-8	10-9	10-10
350.00	11-8	11-10	11-11	12-0	12-1	12-2	12-3	12-4	12-6	12-7
375.00	13-5	13-6	13-8	13-9	13-10	14-0	14-1	14-2	14-4	14-5
400.00	15-3	15-5	15-6	15-8	15-9	15-11	16-0	16-2	16-3	16-5
425.00	17-3	17-5	17-7	17-8	17-10	18-0	18-1	18-3	18-5	18-6
450.00	19-4	19-6	19-8	19-10	20-0	20-2	20-4	20-6	20-7	20-9
475.00	21-7	21-9	21-11	22-1	22-3	22-6	22-8	22-10	23-0	23-2
500.00	23-11	24-1	24-4	24-6	24-8	24-11	25-1	25-3	25-6	25-8
525.00	26-4	26-7	26-10	27-0	27-3	27-5	27-8	27-11	28-1	28-4
550.00	28-11	29-2	29-5	29-8	29-11	30-2	30-5	30-7	30-10	31-1
575.00	31-8	31-11	32-2	32-5	32-8	33-0	33-3	33-6	33-9	34-0
600.00	34-6	34-9	35-1	35-4	35-7	35-11	36-2	36-6	36-9	37-0
625.00	37-5	37-9	38-1	38-4	38-8	39-0	39-3	39-7	39-11	40-2

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-0	6-1	6-1	6-2	6-2	6-3	6-4	6-4	6-5	6-5
275.00	7-3	7-4	7-5	7-5	7-6	7-7	7-7	7-8	7-9	7-9
300.00	8-8	8-8	8-9	8-10	8-11	9-0	9-1	9-2	9-2	9-3
325.00	10-2	10-3	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-10
350.00	11-9	11-10	11-11	12-1	12-2	12-3	12-4	12-5	12-6	12-7
375.00	13-6	13-7	13-9	13-10	13-11	14-1	14-2	14-3	14-5	14-6
400.00	15-4	15-6	15-7	15-9	15-11	16-0	16-2	16-3	16-5	16-6
425.00	17-4	17-6	17-8	17-9	17-11	18-1	18-3	18-4	18-6	18-7
450.00	19-5	19-7	19-9	19-11	20-1	20-3	20-5	20-7	20-9	20-10
475.00	21-8	21-10	22-1	22-3	22-5	22-7	22-9	22-11	23-2	23-3
500.00	24-0	24-3	24-5	24-8	24-10	25-1	25-3	25-5	25-8	25-9
525.00	26-6	26-9	26-11	27-2	27-5	27-7	27-10	28-1	28-3	28-5
550.00	29-1	29-4	29-7	29-10	30-1	30-4	30-7	30-10	31-0	31-2
575.00	31-10	32-1	32-4	32-7	32-11	33-2	33-5	33-8	33-11	34-1
600.00	34-8	34-11	35-3	35-6	35-10	36-1	36-5	36-8	37-0	37-2
625.00	37-7	37-11	38-3	38-7	38-11	39-3	39-6	39-10	40-2	40-4

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Span = 100 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.194	0.84	1771	0.75	2000*
20	0	0	0	0.44	0.24	2265	0.22	2459
30	0	0	0	0.44	0.29	1928	0.25	2198
40	0	0	0	0.44	0.34	1604	0.28	1934
50	0	0	0	0.44	0.42	1301	0.33	1672
60	0	0	0	0.44	0.53	1036	0.39	1416
70	0	0	0	0.44	0.67	824	0.47	1175
80	0	0	0	0.44	0.82	670	0.57	960
90	0	0	0	0.44	0.91	603	0.7	784
100	0	0	0	0.44	0.98	559	0.84	651
110	0	0	0	0.44	1.06	520	0.99	555
120	0	0	0	0.44	1.13	486	1.13	487
130	0	0	0	0.44	1.21	456	1.21	456
167	0	0	0	0.44	1.48	371	1.48	371
212	0	0	0	0.44	1.79	307	1.79	307

* Design Condition

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.194	3.1	1929	2.99	2000*
20	0	0	0	0.44	1.56	1412	1.4	1574
30	0	0	0	0.44	1.79	1229	1.58	1390
40	0	0	0	0.44	2.04	1080	1.79	1230
50	0	0	0	0.44	2.29	962	2.01	1095
60	0	0	0	0.44	2.53	869	2.24	983
70	0	0	0	0.44	2.77	794	2.47	892
80	0	0	0	0.44	3.01	733	2.7	817
90	0	0	0	0.44	3.23	682	2.92	755
100	0	0	0	0.44	3.41	646	3.13	703
110	0	0	0	0.44	3.52	625	3.34	659
120	0	0	0	0.44	3.64	605	3.54	622
130	0	0	0	0.44	3.76	586	3.74	590
167	0	0	0	0.44	4.17	528	4.17	528
212	0	0	0	0.44	4.65	474	4.65	474

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>216 OF 359</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH810.216
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS									

* Design Condition* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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<div>SHEET</div> <div>217 OF 359</div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	OH810.217
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS						

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.194	18.86	1990	18.76	2000*
20	0	0	0	0.44	17.08	809	16.82	821
30	0	0	0	0.44	17.36	796	17.1	808
40	0	0	0	0.44	17.64	783	17.37	795
50	0	0	0	0.44	17.92	771	17.64	783
60	0	0	0	0.44	18.19	760	17.9	772
70	0	0	0	0.44	18.46	749	18.17	761
80	0	0	0	0.44	18.72	739	18.42	750
90	0	0	0	0.44	18.98	729	18.68	740
100	0	0	0	0.44	19.24	719	18.93	730
110	0	0	0	0.44	19.49	710	19.18	721
120	0	0	0	0.44	19.67	704	19.43	712
130	0	0	0	0.44	19.83	698	19.68	703
167	0	0	0	0.44	20.41	678	20.41	678
212	0	0	0	0.44	21.11	656	21.11	656
* Design Condition								

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>218 OF 359</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH810.218</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 2000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7
100.00	0-3	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-10	1-0
125.00	0-4	0-5	0-5	0-6	0-7	0-9	0-11	1-1	1-4	1-7
150.00	0-6	0-7	0-8	0-9	0-10	1-1	1-3	1-7	1-11	2-3
175.00	0-8	0-9	0-10	1-0	1-2	1-5	1-9	2-2	2-7	3-0
200.00	0-11	1-0	1-2	1-4	1-7	1-10	2-4	2-10	3-5	4-0

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-4	0-5	0-6	0-6	0-7	0-7
100.00	0-3	0-3	0-4	0-5	0-6	0-8	0-10	0-11	1-0	1-1
125.00	0-5	0-5	0-6	0-8	0-10	1-1	1-3	1-5	1-6	1-8
150.00	0-7	0-8	0-9	0-11	1-2	1-6	1-10	2-1	2-3	2-5
175.00	0-9	0-10	1-1	1-4	1-8	2-1	2-6	2-10	3-0	3-3
200.00	1-0	1-2	1-4	1-8	2-1	2-8	3-3	3-8	3-11	4-3

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C						F						
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 219 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH810.219
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS										

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-9	0-10
125.00	0-7	0-7	0-8	0-9	0-10	1-0	1-1	1-2	1-3	1-4
150.00	0-9	0-11	1-0	1-2	1-3	1-5	1-6	1-8	1-9	1-11
175.00	1-1	1-3	1-4	1-6	1-9	1-11	2-1	2-3	2-5	2-7
200.00	1-5	1-7	1-9	2-0	2-3	2-6	2-8	2-11	3-2	3-4
225.00	1-9	2-0	2-3	2-7	2-10	3-1	3-5	3-8	4-0	4-3
250.00	2-2	2-6	2-10	3-2	3-6	3-10	4-3	4-7	4-11	5-3

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-5	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11
125.00	0-7	0-8	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
150.00	0-11	1-0	1-2	1-3	1-5	1-7	1-8	1-10	1-11	2-0
175.00	1-2	1-4	1-7	1-9	1-11	2-1	2-4	2-6	2-7	2-8
200.00	1-7	1-9	2-0	2-3	2-6	2-9	3-0	3-3	3-5	3-6
225.00	2-0	2-3	2-7	2-11	3-2	3-6	3-10	4-1	4-4	4-6
250.00	2-5	2-10	3-2	3-7	4-0	4-4	4-8	5-1	5-4	5-6

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SHEET 220 OF 359	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH810.220
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-2	1-3	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-9
175.00	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5
200.00	2-2	2-3	2-5	2-6	2-7	2-9	2-10	2-11	3-1	3-2
225.00	2-8	2-10	3-0	3-2	3-4	3-6	3-7	3-9	3-11	4-0
250.00	3-4	3-6	3-9	3-11	4-1	4-3	4-5	4-7	4-9	4-11
275.00	4-0	4-3	4-6	4-9	4-11	5-2	5-5	5-7	5-9	6-0
300.00	4-10	5-1	5-4	5-8	5-11	6-2	6-5	6-8	6-11	7-1
325.00	5-8	6-0	6-4	6-7	6-11	7-3	7-6	7-10	8-1	8-4
350.00	6-6	6-11	7-4	7-8	8-0	8-5	8-9	9-1	9-5	9-8
375.00	7-6	7-11	8-5	8-10	9-3	9-7	10-0	10-5	10-9	11-2

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-9	1-10	1-10
175.00	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6
200.00	2-3	2-5	2-6	2-8	2-9	2-10	3-0	3-1	3-2	3-3
225.00	2-10	3-0	3-2	3-4	3-6	3-8	3-9	3-11	4-1	4-2
250.00	3-6	3-9	3-11	4-1	4-4	4-6	4-8	4-10	5-0	5-1
275.00	4-3	4-6	4-9	5-0	5-2	5-5	5-8	5-10	6-1	6-2
300.00	5-1	5-4	5-8	5-11	6-2	6-5	6-9	6-11	7-2	7-5
325.00	5-11	6-4	6-8	6-11	7-3	7-7	7-11	8-2	8-5	8-8
350.00	6-11	7-4	7-8	8-1	8-5	8-10	9-2	9-6	9-10	10-1
375.00	7-11	8-5	8-10	9-3	9-8	10-1	10-6	10-11	11-3	11-6

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>221 OF 359</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.221
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS									

Span = 100 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.194	0.72	2076	0.6	2500*
20	0	0	0	0.44	0.2	2725	0.18	3066
30	0	0	0	0.44	0.23	2379	0.2	2811
40	0	0	0	0.44	0.27	2040	0.22	2551
50	0	0	0	0.44	0.32	1710	0.24	2288
60	0	0	0	0.44	0.39	1399	0.27	2023
70	0	0	0	0.44	0.49	1119	0.31	1758
80	0	0	0	0.44	0.62	888	0.37	1497
90	0	0	0	0.44	0.71	775	0.44	1248
100	0	0	0	0.44	0.77	715	0.54	1022
110	0	0	0	0.44	0.83	661	0.66	832
120	0	0	0	0.44	0.9	611	0.8	686
130	0	0	0	0.44	0.97	567	0.95	580
167	0	0	0	0.44	1.25	441	1.23	446
212	0	0	0	0.44	1.58	349	1.57	352

* Design Condition

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.194	2.58	2313	2.39	2500*
20	0	0	0	0.44	1.03	2142	0.9	2447
30	0	0	0	0.44	1.18	1861	1	2209
40	0	0	0	0.44	1.37	1609	1.11	1977
50	0	0	0	0.44	1.58	1392	1.25	1757
60	0	0	0	0.44	1.82	1212	1.42	1552
70	0	0	0	0.44	2.06	1067	1.61	1369
80	0	0	0	0.44	2.31	952	1.82	1211
90	0	0	0	0.44	2.56	860	2.04	1078
100	0	0	0	0.44	2.75	799	2.27	969
110	0	0	0	0.44	2.87	766	2.5	879
120	0	0	0	0.44	2.99	735	2.73	806
130	0	0	0	0.44	3.11	707	2.95	745
167	0	0	0	0.44	3.55	620	3.54	622
212	0	0	0	0.44	4.06	542	4.05	544

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 224 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.224
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS									

Span = 500 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.194	15.14	2473	14.98	2500*
20	0	0	0	0.44	12.64	1091	12.17	1132
30	0	0	0	0.44	13	1061	12.53	1100
40	0	0	0	0.44	13.35	1033	12.87	1071
50	0	0	0	0.44	13.7	1007	13.21	1044
60	0	0	0	0.44	14.04	983	13.54	1018
70	0	0	0	0.44	14.37	960	13.87	994
80	0	0	0	0.44	14.7	939	14.19	972
90	0	0	0	0.44	15.02	919	14.51	951
100	0	0	0	0.44	15.34	900	14.82	931
110	0	0	0	0.44	15.65	882	15.13	912
120	0	0	0	0.44	15.95	866	15.43	894
130	0	0	0	0.44	16.13	856	15.73	877
167	0	0	0	0.44	16.81	821	16.8	822
212	0	0	0	0.44	17.62	784	17.61	785

* Design Condition

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New Page

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.226

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-4	0-4
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-8
125.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-10	1-0
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-10	1-0	1-3	1-6
175.00	0-7	0-7	0-8	0-9	0-10	0-11	1-2	1-4	1-8	2-0
200.00	0-9	0-9	0-10	1-0	1-1	1-3	1-6	1-9	2-2	2-8

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-5	0-6
100.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-9	0-9	0-10
125.00	0-4	0-4	0-5	0-6	0-7	0-9	1-0	1-1	1-2	1-4
150.00	0-5	0-6	0-7	0-9	0-11	1-1	1-5	1-7	1-9	1-10
175.00	0-7	0-8	0-10	1-0	1-2	1-6	1-11	2-2	2-4	2-7
200.00	0-10	0-11	1-1	1-3	1-7	2-0	2-6	2-10	3-1	3-4

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Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8
125.00	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0
150.00	0-6	0-7	0-8	0-8	0-10	0-11	1-0	1-2	1-3	1-5
175.00	0-8	0-9	0-10	1-0	1-1	1-3	1-5	1-7	1-9	1-11
200.00	0-11	1-0	1-1	1-3	1-5	1-7	1-10	2-1	2-3	2-6
225.00	1-2	1-3	1-5	1-7	1-10	2-0	2-4	2-7	2-11	3-2
250.00	1-5	1-7	1-9	1-11	2-3	2-6	2-10	3-2	3-7	3-11

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-8	0-9
125.00	0-5	0-6	0-6	0-7	0-9	0-10	0-11	1-0	1-1	1-1
150.00	0-7	0-8	0-9	0-11	1-0	1-2	1-4	1-5	1-7	1-7
175.00	0-9	0-11	1-1	1-3	1-5	1-7	1-9	2-0	2-1	2-2
200.00	1-0	1-2	1-4	1-7	1-10	2-1	2-4	2-7	2-9	2-10
225.00	1-4	1-6	1-9	2-0	2-4	2-7	2-11	3-3	3-6	3-8
250.00	1-7	1-10	2-2	2-6	2-10	3-3	3-7	4-0	4-4	4-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>228 OF 359</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH810.228
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span:		300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
175.00	1-0	1-1	1-2	1-3	1-5	1-6	1-7	1-8	1-9	1-11
200.00	1-4	1-5	1-7	1-8	1-10	1-11	2-1	2-2	2-4	2-5
225.00	1-8	1-10	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-1
250.00	2-0	2-3	2-5	2-7	2-10	3-0	3-3	3-5	3-8	3-10
275.00	2-5	2-8	2-11	3-2	3-5	3-8	3-11	4-2	4-5	4-8
300.00	2-11	3-2	3-6	3-9	4-1	4-4	4-8	4-11	5-3	5-6
325.00	3-5	3-9	4-1	4-5	4-9	5-2	5-6	5-10	6-2	6-6
350.00	4-0	4-4	4-9	5-2	5-7	5-11	6-4	6-9	7-2	7-6
375.00	4-7	5-0	5-5	5-11	6-4	6-10	7-4	7-9	8-2	8-7

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-4	1-5	1-6
175.00	1-1	1-3	1-4	1-5	1-7	1-8	1-9	1-10	2-0	2-1
200.00	1-6	1-7	1-9	1-11	2-0	2-2	2-4	2-5	2-7	2-8
225.00	1-10	2-0	2-3	2-5	2-7	2-9	2-11	3-1	3-3	3-5
250.00	2-3	2-6	2-9	3-0	3-2	3-5	3-7	3-10	4-0	4-2
275.00	2-9	3-0	3-4	3-7	3-10	4-1	4-4	4-7	4-10	5-1
300.00	3-3	3-7	3-11	4-3	4-7	4-11	5-2	5-6	5-9	6-0
325.00	3-10	4-3	4-8	5-0	5-5	5-9	6-1	6-5	6-9	7-1
350.00	4-6	4-11	5-4	5-10	6-3	6-8	7-1	7-6	7-10	8-2
375.00	5-2	5-8	6-2	6-8	7-2	7-8	8-1	8-7	9-0	9-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 229 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.229
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-8	1-9	1-11	2-0	2-1	2-1	2-2	2-3	2-4	2-5
225.00	2-2	2-3	2-4	2-6	2-7	2-8	2-9	2-11	3-0	3-1
250.00	2-8	2-10	2-11	3-1	3-2	3-4	3-5	3-7	3-8	3-10
275.00	3-3	3-5	3-7	3-8	3-10	4-0	4-2	4-4	4-5	4-7
300.00	3-10	4-0	4-3	4-5	4-7	4-9	4-11	5-2	5-4	5-6
325.00	4-6	4-9	4-11	5-2	5-5	5-7	5-10	6-0	6-3	6-5
350.00	5-3	5-6	5-9	6-0	6-3	6-6	6-9	7-0	7-3	7-5
375.00	6-0	6-4	6-7	6-11	7-2	7-6	7-9	8-0	8-3	8-7
400.00	6-10	7-2	7-6	7-10	8-2	8-6	8-10	9-1	9-5	9-9
425.00	7-8	8-1	8-6	8-10	9-3	9-7	9-11	10-4	10-8	11-0
450.00	8-7	9-1	9-6	9-11	10-4	10-9	11-2	11-7	11-11	12-4
475.00	9-7	10-1	10-7	11-1	11-6	12-0	12-5	12-10	13-4	13-9
500.00	10-8	11-2	11-9	12-3	12-9	13-3	13-9	14-3	14-9	15-2

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7
225.00	2-4	2-5	2-6	2-8	2-9	2-10	2-11	3-1	3-2	3-3
250.00	2-10	3-0	3-1	3-3	3-5	3-6	3-8	3-9	3-11	4-0
275.00	3-5	3-7	3-9	3-11	4-1	4-3	4-5	4-7	4-8	4-10
300.00	4-1	4-4	4-6	4-8	4-11	5-1	5-3	5-5	5-7	5-9
325.00	4-10	5-1	5-3	5-6	5-9	5-11	6-2	6-4	6-7	6-9
350.00	5-7	5-10	6-1	6-5	6-8	6-11	7-2	7-5	7-7	7-10
375.00	6-5	6-9	7-0	7-4	7-8	7-11	8-2	8-6	8-9	9-0
400.00	7-3	7-8	8-0	8-4	8-8	9-0	9-4	9-8	9-11	10-3
425.00	8-3	8-8	9-0	9-5	9-10	10-2	10-6	10-11	11-3	11-7
450.00	9-3	9-8	10-2	10-7	11-0	11-5	11-10	12-2	12-7	13-0
475.00	10-3	10-9	11-3	11-9	12-3	12-8	13-2	13-7	14-0	14-5
500.00	11-5	11-11	12-6	13-1	13-7	14-1	14-7	15-1	15-7	16-0


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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>230 OF 359</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH810.230
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.194	2.26	2647	1.99	3000*
20	0	0	0	0.44	0.8	2734	0.69	3183
30	0	0	0	0.44	0.91	2418	0.75	2940
40	0	0	0	0.44	1.04	2117	0.82	2696
50	0	0	0	0.44	1.2	1838	0.9	2452
60	0	0	0	0.44	1.38	1589	1	2211
70	0	0	0	0.44	1.6	1375	1.11	1977
80	0	0	0	0.44	1.84	1198	1.25	1754
90	0	0	0	0.44	2.08	1056	1.42	1548
100	0	0	0	0.44	2.28	964	1.61	1364
110	0	0	0	0.44	2.39	919	1.83	1206
120	0	0	0	0.44	2.51	877	2.05	1073
130	0	0	0	0.44	2.63	838	2.28	964
167	0	0	0	0.44	3.07	718	3.03	727
212	0	0	0	0.44	3.6	612	3.56	618

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>232 OF 359</p> </div>	Indicates Latest Revision		Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH810.232</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 3000 LBS</p> </div>					

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.194	8.25	2901	7.97	3000*
20	0	0	0	0.44	5.18	1699	4.56	1932
30	0	0	0	0.44	5.58	1578	4.9	1798
40	0	0	0	0.44	5.98	1474	5.25	1678
50	0	0	0	0.44	6.37	1384	5.61	1571
60	0	0	0	0.44	6.75	1305	5.97	1477
70	0	0	0	0.44	7.13	1237	6.33	1393
80	0	0	0	0.44	7.49	1176	6.68	1318
90	0	0	0	0.44	7.85	1123	7.04	1252
100	0	0	0	0.44	8.2	1075	7.38	1193
110	0	0	0	0.44	8.54	1032	7.72	1141
120	0	0	0	0.44	8.84	997	8.06	1094
130	0	0	0	0.44	9.03	977	8.39	1051
167	0	0	0	0.44	9.7	909	9.54	924
212	0	0	0	0.44	10.5	840	10.47	843
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 233 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH810.233
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS										

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.194	12.72	2941	12.47	3000*
20	0	0	0	0.44	9.46	1455	8.74	1576
30	0	0	0	0.44	9.89	1392	9.14	1506
40	0	0	0	0.44	10.31	1336	9.55	1442
50	0	0	0	0.44	10.72	1285	9.95	1385
60	0	0	0	0.44	11.12	1239	10.34	1332
70	0	0	0	0.44	11.52	1196	10.73	1284
80	0	0	0	0.44	11.9	1158	11.11	1241
90	0	0	0	0.44	12.28	1123	11.48	1200
100	0	0	0	0.44	12.65	1090	11.85	1163
110	0	0	0	0.44	13.01	1060	12.21	1129
120	0	0	0	0.44	13.36	1032	12.56	1097
130	0	0	0	0.44	13.64	1011	12.91	1068
167	0	0	0	0.44	14.39	959	14.14	975
212	0	0	0	0.44	15.27	904	15.24	905
* Design Condition								

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>234 OF 359</p> </div>	Indicates Latest Revision	Completely Revised	<div style="border: 1px solid black; padding: 2px;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH810.234</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 3000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5
125.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7	0-8
150.00	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-10	1-0
175.00	0-6	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-4
200.00	0-7	0-8	0-8	0-9	0-10	0-11	1-1	1-3	1-5	1-9

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-4
100.00	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-7	0-8
125.00	0-3	0-4	0-4	0-5	0-6	0-7	0-9	0-11	1-0	1-0
150.00	0-5	0-5	0-6	0-7	0-8	0-10	1-1	1-3	1-5	1-6
175.00	0-6	0-7	0-8	0-10	1-0	1-2	1-6	1-9	1-11	2-0
200.00	0-8	0-10	0-11	1-1	1-3	1-6	1-11	2-3	2-5	2-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>235 OF 359</h2> </div>		<div style="display: flex; justify-content: space-between; align-items: center;"> <div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Indicates Latest Revision</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Completely Revised</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">New Page</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Information Removed</div> </div> <div style="text-align: center;"> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS</div> <div style="border: 1px solid black; padding: 5px;">STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS</div> </div> </div>									OH810.235

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-5
125.00	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-10	0-11	1-0
175.00	0-6	0-7	0-7	0-8	0-9	0-10	1-0	1-1	1-3	1-5
200.00	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-5	1-7	1-10
225.00	0-10	0-11	1-0	1-2	1-3	1-5	1-7	1-10	2-0	2-4
250.00	1-1	1-2	1-3	1-5	1-7	1-9	2-0	2-3	2-6	2-10

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-6	0-7	0-7
125.00	0-4	0-4	0-5	0-6	0-6	0-8	0-9	0-10	0-11	0-11
150.00	0-5	0-6	0-7	0-8	0-9	0-11	1-0	1-2	1-3	1-4
175.00	0-7	0-8	0-10	0-11	1-1	1-3	1-5	1-7	1-9	1-10
200.00	0-10	0-11	1-0	1-2	1-5	1-7	1-10	2-1	2-3	2-5
225.00	1-0	1-2	1-4	1-6	1-9	2-0	2-4	2-8	2-11	3-0
250.00	1-3	1-5	1-7	1-10	2-2	2-6	2-10	3-3	3-7	3-9

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[illegible]

Stringing Sag Table Using Initial Sag							Ruling Span:	300.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1
175.00	0-8	0-9	0-10	0-10	0-11	1-1	1-2	1-3	1-4	1-5
200.00	0-10	0-11	1-0	1-2	1-3	1-4	1-6	1-8	1-9	1-11
225.00	1-1	1-2	1-4	1-5	1-7	1-9	1-11	2-1	2-3	2-5
250.00	1-4	1-6	1-7	1-9	1-11	2-2	2-4	2-6	2-9	3-0
275.00	1-8	1-9	1-11	2-2	2-4	2-7	2-10	3-1	3-4	3-7
300.00	1-11	2-1	2-4	2-7	2-10	3-1	3-4	3-8	4-0	4-3
325.00	2-3	2-6	2-9	3-0	3-4	3-7	3-11	4-4	4-8	5-0
350.00	2-8	2-11	3-2	3-6	3-10	4-2	4-7	5-0	5-5	5-10
375.00	3-1	3-4	3-8	4-0	4-5	4-10	5-3	5-9	6-2	6-8

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3
175.00	0-9	0-10	1-0	1-1	1-2	1-4	1-5	1-6	1-7	1-9
200.00	1-0	1-2	1-3	1-5	1-7	1-8	1-10	2-0	2-1	2-3
225.00	1-3	1-5	1-7	1-9	2-0	2-2	2-4	2-6	2-8	2-10
250.00	1-7	1-9	2-0	2-2	2-5	2-8	2-11	3-1	3-4	3-6
275.00	1-11	2-2	2-5	2-8	2-11	3-2	3-6	3-9	4-0	4-3
300.00	2-3	2-7	2-10	3-2	3-6	3-10	4-2	4-6	4-9	5-1
325.00	2-8	3-0	3-4	3-9	4-1	4-6	4-10	5-3	5-7	5-11
350.00	3-1	3-6	3-11	4-4	4-9	5-2	5-8	6-1	6-6	6-11
375.00	3-7	4-0	4-5	4-11	5-5	6-0	6-6	7-0	7-6	7-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 237 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.237
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11
225.00	1-5	1-7	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-5
250.00	1-9	1-11	2-1	2-2	2-4	2-6	2-7	2-9	2-11	3-0
275.00	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8
300.00	2-7	2-9	2-11	3-2	3-4	3-7	3-9	3-11	4-2	4-4
325.00	3-0	3-3	3-6	3-8	3-11	4-2	4-5	4-8	4-10	5-1
350.00	3-6	3-9	4-0	4-3	4-7	4-10	5-1	5-5	5-8	5-11
375.00	4-0	4-4	4-7	4-11	5-3	5-7	5-10	6-2	6-6	6-9
400.00	4-7	4-11	5-3	5-7	6-0	6-4	6-8	7-0	7-5	7-9
425.00	5-2	5-6	5-11	6-4	6-9	7-2	7-7	7-11	8-4	8-9
450.00	5-9	6-2	6-8	7-1	7-7	8-0	8-6	8-11	9-4	9-9
475.00	6-5	6-11	7-5	7-11	8-5	8-11	9-5	9-11	10-5	10-11
500.00	7-1	7-8	8-2	8-9	9-4	9-11	10-5	11-0	11-6	12-1

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-4	1-5	1-6	1-7	1-8	1-9	1-10	2-0	2-1	2-2
225.00	1-8	1-9	1-11	2-0	2-2	2-3	2-4	2-6	2-7	2-8
250.00	2-0	2-2	2-4	2-6	2-8	2-9	2-11	3-1	3-2	3-4
275.00	2-5	2-8	2-10	3-0	3-2	3-4	3-6	3-9	3-10	4-0
300.00	2-11	3-2	3-4	3-7	3-10	4-0	4-3	4-5	4-7	4-10
325.00	3-5	3-8	3-11	4-2	4-5	4-8	4-11	5-2	5-5	5-8
350.00	4-0	4-3	4-7	4-10	5-2	5-5	5-9	6-0	6-3	6-6
375.00	4-7	4-11	5-3	5-7	5-11	6-3	6-7	6-11	7-2	7-6
400.00	5-2	5-7	6-0	6-4	6-9	7-2	7-6	7-10	8-2	8-6
425.00	5-10	6-4	6-9	7-2	7-7	8-1	8-6	8-10	9-3	9-8
450.00	6-7	7-1	7-7	8-1	8-7	9-0	9-6	9-11	10-5	10-10
475.00	7-4	7-10	8-5	9-0	9-6	10-1	10-7	11-1	11-7	12-1
500.00	8-1	8-9	9-4	9-11	10-7	11-2	11-9	12-3	12-10	13-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 238 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.238
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.194	24.23	1000	24.23	1000*
0	0	0	0	0.44	23.72	376	23.66	377
30	0	0	0	0.44	24.13	370	24.09	371
40	0	0	0	0.44	24.26	368	24.22	369
50	0	0	0	0.44	24.4	366	24.35	367
60	0	0	0	0.44	24.53	364	24.48	365
70	0	0	0	0.44	24.66	362	24.61	363
80	0	0	0	0.44	24.79	360	24.73	361
90	0	0	0	0.44	24.9	359	24.86	359
100	0	0	0	0.44	24.99	358	24.99	358
110	0	0	0	0.44	25.08	356	25.08	356
120	0	0	0	0.44	25.16	355	25.16	355
130	0	0	0	0.44	25.25	354	25.25	354
167	0	0	0	0.44	25.56	350	25.56	350
212	0	0	0	0.44	25.94	345	25.94	345

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 241 OF 359		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH810.241
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS											

Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	1.194	38.19	1000	38.19	1000*
0	0	0	0	0.44	37.68	373	37.62	374
30	0	0	0	0.44	38.08	369	38.04	370
40	0	0	0	0.44	38.22	368	38.17	369
50	0	0	0	0.44	38.35	367	38.3	367
60	0	0	0	0.44	38.48	366	38.43	366
70	0	0	0	0.44	38.62	365	38.56	365
80	0	0	0	0.44	38.75	363	38.69	364
90	0	0	0	0.44	38.86	362	38.82	363
100	0	0	0	0.44	38.95	362	38.95	362
110	0	0	0	0.44	39.04	361	39.04	361
120	0	0	0	0.44	39.13	360	39.13	360
130	0	0	0	0.44	39.21	359	39.21	359
167	0	0	0	0.44	39.54	357	39.54	357
212	0	0	0	0.44	39.92	353	39.92	353

* Design Condition

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SHEET
242 OF 359

Indicates Latest Revision

Completely Revised



New Page

Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.242

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-2	1-2
100.00	1-3	1-4	1-6	1-7	1-8	1-10	1-11	2-0	2-1	2-1
125.00	1-11	2-1	2-4	2-6	2-8	2-10	3-0	3-2	3-3	3-4
150.00	2-9	3-1	3-4	3-7	3-10	4-1	4-4	4-6	4-8	4-9
175.00	3-9	4-2	4-6	4-11	5-3	5-7	5-10	6-2	6-4	6-6
200.00	4-11	5-5	5-11	6-5	6-10	7-3	7-8	8-0	8-3	8-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-9	0-9	0-10	0-11	1-0	1-1	1-1	1-2	1-2	1-2
100.00	1-3	1-5	1-6	1-8	1-9	1-10	1-11	2-0	2-1	2-1
125.00	2-0	2-2	2-5	2-7	2-9	2-11	3-0	3-2	3-3	3-4
150.00	2-10	3-2	3-5	3-8	3-11	4-2	4-4	4-6	4-8	4-9
175.00	3-10	4-3	4-8	5-0	5-4	5-8	5-11	6-2	6-4	6-6
200.00	5-1	5-7	6-1	6-7	7-0	7-5	7-9	8-0	8-3	8-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 243 OF 359	Indicates Latest Revision			Completely Revised	X	New Page		Information Removed	OH810.243
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS								
	STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS								

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-5	1-6	1-6	1-6	1-7	1-7	1-7	1-8	1-8	1-8
125.00	2-3	2-3	2-4	2-5	2-5	2-6	2-6	2-7	2-7	2-8
150.00	3-3	3-3	3-4	3-5	3-6	3-7	3-8	3-8	3-9	3-10
175.00	4-5	4-6	4-7	4-8	4-9	4-10	4-11	5-1	5-1	5-2
200.00	5-9	5-10	6-0	6-1	6-3	6-4	6-6	6-7	6-8	6-9
225.00	7-3	7-5	7-7	7-9	7-11	8-1	8-2	8-4	8-6	8-7
250.00	8-11	9-2	9-4	9-7	9-9	9-11	10-1	10-4	10-6	10-7

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-5	1-6	1-6	1-6	1-7	1-7	1-8	1-8	1-8	1-8
125.00	2-3	2-4	2-4	2-5	2-5	2-6	2-7	2-7	2-7	2-8
150.00	3-3	3-4	3-5	3-6	3-6	3-7	3-8	3-9	3-9	3-10
175.00	4-5	4-6	4-7	4-9	4-10	4-11	5-0	5-1	5-1	5-2
200.00	5-9	5-11	6-0	6-2	6-3	6-5	6-6	6-7	6-8	6-9
225.00	7-3	7-5	7-7	7-9	7-11	8-1	8-3	8-5	8-6	8-7
250.00	9-0	9-2	9-5	9-7	9-10	10-0	10-2	10-4	10-6	10-7

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 244 OF 359		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH810.244	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-4	3-4	3-5	3-5	3-5	3-6	3-6	3-6	3-7	3-7
175.00	4-6	4-7	4-7	4-8	4-8	4-9	4-9	4-10	4-10	4-11
200.00	5-11	5-11	6-0	6-1	6-1	6-2	6-3	6-3	6-4	6-5
225.00	7-5	7-6	7-7	7-8	7-9	7-10	7-11	7-11	8-0	8-1
250.00	9-2	9-4	9-5	9-6	9-7	9-8	9-9	9-10	9-11	10-0
275.00	11-2	11-3	11-4	11-6	11-7	11-8	11-9	11-11	12-0	12-1
300.00	13-3	13-5	13-6	13-8	13-9	13-11	14-0	14-2	14-3	14-4
325.00	15-7	15-9	15-11	16-0	16-2	16-4	16-6	16-8	16-9	16-10
350.00	18-1	18-3	18-5	18-7	18-9	18-11	19-2	19-4	19-6	19-7
375.00	20-9	21-0	21-2	21-4	21-7	21-9	22-0	22-2	22-4	22-6

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-4	3-4	3-5	3-5	3-5	3-6	3-6	3-7	3-7	3-7
175.00	4-6	4-7	4-7	4-8	4-8	4-9	4-9	4-10	4-10	4-11
200.00	5-11	6-0	6-0	6-1	6-2	6-2	6-3	6-4	6-4	6-5
225.00	7-6	7-7	7-8	7-8	7-9	7-10	7-11	8-0	8-0	8-1
250.00	9-3	9-4	9-5	9-6	9-7	9-8	9-9	9-10	9-11	10-0
275.00	11-2	11-3	11-5	11-6	11-7	11-9	11-10	11-11	12-0	12-1
300.00	13-4	13-5	13-7	13-8	13-10	14-0	14-1	14-2	14-3	14-4
325.00	15-7	15-9	15-11	16-1	16-3	16-5	16-7	16-8	16-9	16-10
350.00	18-2	18-4	18-6	18-8	18-10	19-0	19-2	19-4	19-6	19-7
375.00	20-10	21-0	21-3	21-5	21-8	21-10	22-1	22-3	22-4	22-6

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
		<div style="color: orange;">Indicates Latest Revision</div>			Completely Revised	X	New Page		Information Removed		
SHEET 245 OF 359		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									OH810.245
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-0	6-0	6-0	6-1	6-1	6-2	6-2	6-2	6-3	6-3
225.00	7-7	7-7	7-8	7-8	7-9	7-9	7-10	7-10	7-11	7-11
250.00	9-4	9-5	9-5	9-6	9-6	9-7	9-8	9-8	9-9	9-9
275.00	11-4	11-4	11-5	11-6	11-6	11-7	11-8	11-9	11-9	11-10
300.00	13-5	13-6	13-7	13-8	13-9	13-10	13-11	13-11	14-0	14-1
325.00	15-9	15-11	16-0	16-1	16-2	16-3	16-4	16-5	16-6	16-6
350.00	18-4	18-5	18-6	18-7	18-9	18-10	18-11	19-0	19-1	19-2
375.00	21-1	21-2	21-3	21-5	21-6	21-7	21-9	21-10	21-11	22-0
400.00	23-11	24-1	24-3	24-4	24-6	24-7	24-9	24-10	25-0	25-1
425.00	27-1	27-3	27-4	27-6	27-8	27-10	27-11	28-1	28-3	28-4
450.00	30-4	30-6	30-8	30-10	31-0	31-2	31-4	31-6	31-8	31-9
475.00	33-10	34-0	34-3	34-5	34-7	34-9	34-11	35-2	35-4	35-5
500.00	37-6	37-9	37-11	38-2	38-4	38-7	38-9	38-11	39-2	39-4

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-0	6-0	6-1	6-1	6-1	6-2	6-2	6-2	6-3	6-3
225.00	7-7	7-7	7-8	7-8	7-9	7-9	7-10	7-10	7-11	7-11
250.00	9-4	9-5	9-5	9-6	9-7	9-7	9-8	9-8	9-9	9-9
275.00	11-4	11-5	11-5	11-6	11-7	11-8	11-8	11-9	11-9	11-10
300.00	13-6	13-7	13-7	13-8	13-9	13-10	13-11	14-0	14-0	14-1
325.00	15-10	15-11	16-0	16-1	16-2	16-3	16-4	16-5	16-6	16-6
350.00	18-4	18-5	18-7	18-8	18-9	18-10	19-0	19-0	19-1	19-2
375.00	21-1	21-2	21-4	21-5	21-7	21-8	21-9	21-10	21-11	22-0
400.00	24-0	24-2	24-3	24-5	24-6	24-8	24-10	24-11	25-0	25-1
425.00	27-1	27-3	27-5	27-7	27-9	27-10	28-0	28-2	28-3	28-4
450.00	30-5	30-7	30-9	30-11	31-1	31-3	31-5	31-7	31-8	31-9
475.00	33-11	34-1	34-3	34-6	34-8	34-10	35-0	35-2	35-4	35-5
500.00	37-7	37-10	38-0	38-3	38-5	38-8	38-10	39-0	39-2	39-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
		<div>Indicates Latest Revision</div>			Completely Revised	X	New Page		Information Removed		
SHEET 248 OF 359		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									OH810.248
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.194	16.04	1498	16.02	1500*
0	0	0	0	0.44	15.09	586	14.99	590
30	0	0	0	0.44	15.71	564	15.59	568
40	0	0	0	0.44	15.91	557	15.79	561
50	0	0	0	0.44	16.11	550	15.98	554
60	0	0	0	0.44	16.31	543	16.17	548
70	0	0	0	0.44	16.5	537	16.36	541
80	0	0	0	0.44	16.69	531	16.55	535
90	0	0	0	0.44	16.88	525	16.74	529
100	0	0	0	0.44	17.05	520	16.92	524
110	0	0	0	0.44	17.17	516	17.1	518
120	0	0	0	0.44	17.3	513	17.28	513
130	0	0	0	0.44	17.42	509	17.42	509
167	0	0	0	0.44	17.86	497	17.86	497
212	0	0	0	0.44	18.38	483	18.38	483

* Design Condition

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 249 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.249
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.194	25.15	1499	25.13	1500*
0	0	0	0	0.44	24.2	573	24.1	576
30	0	0	0	0.44	24.82	560	24.7	562
40	0	0	0	0.44	25.02	555	24.89	558
50	0	0	0	0.44	25.22	551	25.09	554
60	0	0	0	0.44	25.42	547	25.28	549
70	0	0	0	0.44	25.61	542	25.47	545
80	0	0	0	0.44	25.81	538	25.66	541
90	0	0	0	0.44	26	535	25.85	538
100	0	0	0	0.44	26.18	531	26.04	534
110	0	0	0	0.44	26.31	528	26.23	530
120	0	0	0	0.44	26.44	526	26.41	526
130	0	0	0	0.44	26.57	523	26.57	523
167	0	0	0	0.44	27.02	515	27.02	515
212	0	0	0	0.44	27.57	505	27.57	505
* Design Condition								

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>250 OF 359</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH810.250</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 1500 LBS</p> </div>					

Completely Revised

New Page

OH810.250

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-4	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-11	0-11
100.00	0-7	0-8	0-10	1-0	1-1	1-3	1-4	1-6	1-7	1-8
125.00	0-10	1-1	1-3	1-6	1-9	1-11	2-2	2-4	2-6	2-7
150.00	1-3	1-6	1-10	2-2	2-6	2-10	3-1	3-4	3-7	3-9
175.00	1-8	2-1	2-6	2-11	3-5	3-10	4-3	4-7	4-11	5-2
200.00	2-3	2-9	3-3	3-10	4-5	5-0	5-6	6-0	6-5	6-8

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11	0-11
100.00	0-7	0-9	0-11	1-1	1-2	1-4	1-6	1-6	1-7	1-8
125.00	0-11	1-2	1-5	1-8	1-10	2-1	2-3	2-5	2-6	2-7
150.00	1-4	1-8	2-0	2-4	2-8	3-0	3-3	3-5	3-7	3-9
175.00	1-10	2-3	2-9	3-3	3-8	4-1	4-6	4-8	4-11	5-2
200.00	2-4	2-11	3-7	4-2	4-9	5-4	5-10	6-2	6-5	6-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 251 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH810.251
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3
125.00	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-10	1-10	1-11
150.00	1-11	2-0	2-1	2-3	2-4	2-5	2-6	2-7	2-8	2-9
175.00	2-7	2-9	2-11	3-0	3-2	3-3	3-5	3-7	3-8	3-9
200.00	3-4	3-7	3-9	3-11	4-2	4-4	4-6	4-8	4-9	4-11
225.00	4-3	4-6	4-9	5-0	5-3	5-5	5-8	5-10	6-1	6-3
250.00	5-3	5-7	5-11	6-2	6-5	6-9	7-0	7-3	7-6	7-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3
125.00	1-4	1-5	1-6	1-7	1-8	1-9	1-9	1-10	1-11	1-11
150.00	1-11	2-1	2-2	2-3	2-5	2-6	2-7	2-8	2-9	2-9
175.00	2-8	2-10	3-0	3-1	3-3	3-5	3-6	3-8	3-9	3-9
200.00	3-6	3-8	3-10	4-1	4-3	4-5	4-7	4-9	4-10	4-11
225.00	4-5	4-8	4-11	5-2	5-4	5-7	5-10	6-0	6-2	6-3
250.00	5-5	5-9	6-1	6-4	6-8	6-11	7-2	7-5	7-7	7-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>252 OF 359</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH810.252
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-1	2-2	2-2	2-3	2-3	2-4	2-4	2-5	2-6	2-6
175.00	2-10	2-11	3-0	3-1	3-1	3-2	3-3	3-3	3-4	3-5
200.00	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-5
225.00	4-8	4-10	4-11	5-0	5-2	5-3	5-4	5-5	5-6	5-8
250.00	5-10	5-11	6-1	6-3	6-4	6-6	6-7	6-9	6-10	7-0
275.00	7-0	7-2	7-4	7-6	7-8	7-10	8-0	8-2	8-3	8-5
300.00	8-4	8-7	8-9	8-11	9-2	9-4	9-6	9-8	9-10	10-0
325.00	9-10	10-1	10-3	10-6	10-9	10-11	11-2	11-4	11-7	11-9
350.00	11-5	11-8	11-11	12-2	12-5	12-8	12-11	13-2	13-5	13-8
375.00	13-1	13-5	13-8	14-0	14-3	14-7	14-10	15-2	15-5	15-8

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-1	2-2	2-3	2-3	2-4	2-4	2-5	2-5	2-6	2-6
175.00	2-11	2-11	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-5
200.00	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6
225.00	4-9	4-11	5-0	5-1	5-2	5-4	5-5	5-6	5-7	5-8
250.00	5-11	6-0	6-2	6-4	6-5	6-7	6-8	6-10	6-11	7-0
275.00	7-1	7-3	7-5	7-7	7-9	7-11	8-1	8-3	8-4	8-6
300.00	8-6	8-8	8-11	9-1	9-3	9-5	9-8	9-10	10-0	10-1
325.00	9-11	10-2	10-5	10-8	10-10	11-1	11-4	11-6	11-8	11-10
350.00	11-6	11-10	12-1	12-4	12-7	12-10	13-2	13-4	13-7	13-9
375.00	13-3	13-7	13-11	14-2	14-6	14-9	15-1	15-4	15-7	15-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 253 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.253
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-10	3-11	3-11	4-0	4-0	4-1	4-2	4-2	4-3	4-3
225.00	4-10	4-11	5-0	5-1	5-1	5-2	5-3	5-3	5-4	5-5
250.00	6-0	6-1	6-2	6-3	6-4	6-5	6-5	6-6	6-7	6-8
275.00	7-3	7-4	7-5	7-7	7-8	7-9	7-10	7-11	8-0	8-1
300.00	8-8	8-9	8-10	9-0	9-1	9-2	9-4	9-5	9-6	9-7
325.00	10-2	10-3	10-5	10-7	10-8	10-10	10-11	11-0	11-2	11-3
350.00	11-9	11-11	12-1	12-3	12-5	12-6	12-8	12-10	12-11	13-1
375.00	13-6	13-8	13-10	14-1	14-3	14-5	14-7	14-8	14-10	15-0
400.00	15-5	15-7	15-9	16-0	16-2	16-4	16-7	16-9	16-11	17-1
425.00	17-5	17-7	17-10	18-1	18-3	18-6	18-8	18-11	19-1	19-4
450.00	19-6	19-9	20-0	20-3	20-6	20-9	21-0	21-2	21-5	21-8
475.00	21-9	22-0	22-3	22-7	22-10	23-1	23-4	23-7	23-11	24-2
500.00	24-1	24-5	24-8	25-0	25-4	25-7	25-11	26-2	26-6	26-9

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-10	3-11	4-0	4-0	4-1	4-1	4-2	4-3	4-3	4-3
225.00	4-11	5-0	5-0	5-1	5-2	5-3	5-3	5-4	5-5	5-5
250.00	6-1	6-2	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-8
275.00	7-4	7-5	7-6	7-7	7-8	7-9	7-11	8-0	8-1	8-1
300.00	8-9	8-10	8-11	9-1	9-2	9-3	9-5	9-6	9-7	9-8
325.00	10-3	10-4	10-6	10-8	10-9	10-11	11-0	11-2	11-3	11-4
350.00	11-10	12-0	12-2	12-4	12-6	12-8	12-9	12-11	13-1	13-2
375.00	13-8	13-10	14-0	14-2	14-4	14-6	14-8	14-10	15-0	15-1
400.00	15-6	15-9	15-11	16-1	16-4	16-6	16-8	16-11	17-1	17-2
425.00	17-6	17-9	18-0	18-2	18-5	18-8	18-10	19-1	19-3	19-5
450.00	19-8	19-11	20-2	20-5	20-8	20-11	21-2	21-5	21-7	21-9
475.00	21-11	22-2	22-6	22-9	23-0	23-4	23-7	23-10	24-1	24-3
500.00	24-3	24-7	24-11	25-2	25-6	25-10	26-1	26-5	26-8	26-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 254 OF 359		Indicates Latest Revision				Completely Revised	X	New Page		Information Removed	OH810.254
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
	STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS										

Stringing Sag Table Using Initial Sag							Ruling Span:	500.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
250.00	6-1	6-2	6-2	6-3	6-4	6-4	6-5	6-5	6-6	6-6
275.00	7-5	7-5	7-6	7-7	7-8	7-8	7-9	7-10	7-10	7-11
300.00	8-10	8-10	8-11	9-0	9-1	9-2	9-3	9-3	9-4	9-5
325.00	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-11	11-0	11-1
350.00	12-0	12-1	12-2	12-3	12-4	12-6	12-7	12-8	12-9	12-10
375.00	13-9	13-10	14-0	14-1	14-2	14-4	14-5	14-6	14-7	14-9
400.00	15-8	15-9	15-11	16-0	16-2	16-3	16-5	16-6	16-8	16-9
425.00	17-8	17-10	18-0	18-1	18-3	18-5	18-6	18-8	18-10	18-11
450.00	19-10	20-0	20-2	20-4	20-6	20-7	20-9	20-11	21-1	21-3
475.00	22-1	22-3	22-5	22-8	22-10	23-0	23-2	23-4	23-6	23-8
500.00	24-6	24-8	24-11	25-1	25-3	25-6	25-8	25-10	26-0	26-3
525.00	27-0	27-3	27-5	27-8	27-11	28-1	28-4	28-6	28-9	28-11
550.00	29-8	29-11	30-2	30-4	30-7	30-10	31-1	31-4	31-6	31-9
575.00	32-5	32-8	32-11	33-3	33-6	33-9	34-0	34-3	34-6	34-9
600.00	35-4	35-7	35-11	36-2	36-5	36-9	37-0	37-3	37-7	37-10
625.00	38-4	38-8	39-0	39-3	39-7	39-11	40-2	40-6	40-9	41-1

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-2	6-2	6-3	6-3	6-4	6-5	6-5	6-6	6-6	6-7
275.00	7-5	7-6	7-7	7-7	7-8	7-9	7-9	7-10	7-11	7-11
300.00	8-10	8-11	9-0	9-1	9-2	9-2	9-3	9-4	9-5	9-5
325.00	10-5	10-6	10-7	10-8	10-9	10-10	10-11	11-0	11-0	11-1
350.00	12-0	12-2	12-3	12-4	12-5	12-6	12-7	12-9	12-10	12-10
375.00	13-10	13-11	14-1	14-2	14-3	14-5	14-6	14-7	14-8	14-9
400.00	15-9	15-10	16-0	16-1	16-3	16-4	16-6	16-7	16-9	16-10
425.00	17-9	17-11	18-1	18-2	18-4	18-6	18-8	18-9	18-11	19-0
450.00	19-11	20-1	20-3	20-5	20-7	20-9	20-11	21-1	21-2	21-4
475.00	22-2	22-5	22-7	22-9	22-11	23-1	23-3	23-6	23-7	23-9
500.00	24-7	24-10	25-0	25-3	25-5	25-7	25-10	26-0	26-2	26-4
525.00	27-2	27-4	27-7	27-10	28-0	28-3	28-6	28-8	28-11	29-0
550.00	29-10	30-1	30-4	30-6	30-9	31-0	31-3	31-6	31-8	31-10
575.00	32-7	32-10	33-1	33-5	33-8	33-11	34-2	34-5	34-8	34-10
600.00	35-6	35-9	36-1	36-4	36-8	36-11	37-3	37-6	37-9	37-11
625.00	38-6	38-10	39-2	39-6	39-9	40-1	40-5	40-9	41-0	41-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 255 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.255
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 257 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.257
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.194	18.81	1995	18.76	2000*
0	0	0	0	0.44	17.31	798	17.09	808
30	0	0	0	0.44	18.13	762	17.89	772
40	0	0	0	0.44	18.4	751	18.15	761
50	0	0	0	0.44	18.67	741	18.41	751
60	0	0	0	0.44	18.93	731	18.67	741
70	0	0	0	0.44	19.19	721	18.92	731
80	0	0	0	0.44	19.44	711	19.17	721
90	0	0	0	0.44	19.7	702	19.42	712
100	0	0	0	0.44	19.95	694	19.66	704
110	0	0	0	0.44	20.19	686	19.91	695
120	0	0	0	0.44	20.35	680	20.15	687
130	0	0	0	0.44	20.5	675	20.38	679
167	0	0	0	0.44	21.08	657	21.08	657
212	0	0	0	0.44	21.75	637	21.75	637

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>258 OF 359</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH810.258</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 2000 LBS</p> </div>					

Completely Revised

 New Page

Information Removed

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.258

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-9
100.00	0-4	0-5	0-6	0-7	0-8	0-10	1-0	1-2	1-3	1-5
125.00	0-6	0-7	0-9	0-11	1-1	1-4	1-6	1-9	2-0	2-2
150.00	0-9	0-10	1-1	1-3	1-7	1-11	2-3	2-6	2-10	3-1
175.00	1-0	1-2	1-5	1-9	2-2	2-7	3-0	3-5	3-10	4-3
200.00	1-4	1-7	1-10	2-3	2-9	3-4	3-11	4-6	5-1	5-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-4	0-5	0-6	0-7	0-8	0-8	0-9	0-9
100.00	0-4	0-5	0-6	0-8	0-10	1-0	1-2	1-3	1-4	1-5
125.00	0-6	0-8	0-10	1-1	1-3	1-6	1-9	1-11	2-0	2-2
150.00	0-9	0-11	1-2	1-6	1-10	2-3	2-7	2-9	2-11	3-1
175.00	1-1	1-4	1-8	2-1	2-6	3-0	3-6	3-9	4-0	4-3
200.00	1-5	1-8	2-2	2-8	3-4	3-11	4-6	4-11	5-2	5-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 259 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.259
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0
125.00	0-9	0-10	1-0	1-1	1-2	1-3	1-4	1-5	1-5	1-6
150.00	1-2	1-3	1-5	1-6	1-8	1-9	1-10	2-0	2-1	2-2
175.00	1-6	1-8	1-11	2-1	2-3	2-5	2-7	2-8	2-10	3-0
200.00	2-0	2-3	2-6	2-8	2-11	3-1	3-4	3-6	3-9	3-11
225.00	2-6	2-10	3-1	3-5	3-8	3-11	4-3	4-6	4-9	4-11
250.00	3-2	3-6	3-10	4-2	4-7	4-11	5-2	5-6	5-10	6-1

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0
125.00	0-10	0-11	1-0	1-2	1-3	1-4	1-5	1-6	1-6	1-7
150.00	1-3	1-4	1-6	1-8	1-9	1-11	2-0	2-1	2-2	2-3
175.00	1-8	1-10	2-0	2-3	2-5	2-7	2-9	2-10	3-0	3-1
200.00	2-2	2-5	2-8	2-11	3-1	3-4	3-7	3-9	3-11	4-0
225.00	2-9	3-1	3-4	3-8	3-11	4-3	4-6	4-9	4-11	5-1
250.00	3-5	3-9	4-2	4-6	4-11	5-3	5-7	5-10	6-1	6-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 260 OF 359		Indicates Latest Revision			Completely Revised		X	New Page		Information Removed		OH810.260
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-5	1-6	1-6	1-7	1-8	1-9	1-9	1-10	1-11	1-11
175.00	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8
200.00	2-6	2-7	2-9	2-10	2-11	3-1	3-2	3-3	3-4	3-5
225.00	3-2	3-4	3-5	3-7	3-9	3-10	4-0	4-2	4-3	4-4
250.00	3-11	4-1	4-3	4-5	4-7	4-9	4-11	5-1	5-3	5-5
275.00	4-9	4-11	5-2	5-5	5-7	5-9	6-0	6-2	6-4	6-6
300.00	5-8	5-11	6-2	6-5	6-8	6-11	7-1	7-4	7-7	7-9
325.00	6-7	6-11	7-3	7-6	7-10	8-1	8-4	8-7	8-11	9-2
350.00	7-8	8-0	8-4	8-9	9-1	9-4	9-8	10-0	10-4	10-7
375.00	8-10	9-2	9-7	10-0	10-5	10-9	11-1	11-6	11-10	12-2

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-6	1-6	1-7	1-8	1-9	1-9	1-10	1-11	1-11	2-0
175.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
200.00	2-7	2-9	2-10	2-11	3-1	3-2	3-3	3-4	3-6	3-6
225.00	3-3	3-5	3-7	3-9	3-10	4-0	4-2	4-3	4-5	4-6
250.00	4-1	4-3	4-5	4-7	4-9	4-11	5-1	5-3	5-5	5-6
275.00	4-11	5-2	5-4	5-7	5-9	6-0	6-2	6-5	6-7	6-8
300.00	5-10	6-1	6-5	6-8	6-11	7-2	7-4	7-7	7-10	8-0
325.00	6-10	7-2	7-6	7-9	8-1	8-4	8-8	8-11	9-2	9-4
350.00	7-11	8-4	8-8	9-0	9-4	9-8	10-0	10-4	10-8	10-10
375.00	9-2	9-7	10-0	10-4	10-9	11-2	11-6	11-10	12-3	12-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>261 OF 359</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.261
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-9	2-9	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-3
225.00	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2
250.00	4-3	4-4	4-5	4-7	4-8	4-9	4-10	4-11	5-0	5-1
275.00	5-2	5-3	5-5	5-6	5-7	5-9	5-10	6-0	6-1	6-2
300.00	6-1	6-3	6-5	6-7	6-8	6-10	7-0	7-1	7-3	7-4
325.00	7-2	7-4	7-6	7-8	7-10	8-0	8-2	8-4	8-6	8-8
350.00	8-4	8-6	8-9	8-11	9-1	9-4	9-6	9-8	9-10	10-0
375.00	9-6	9-9	10-0	10-3	10-5	10-8	10-11	11-1	11-4	11-6
400.00	10-10	11-1	11-5	11-8	11-11	12-2	12-5	12-7	12-10	13-1
425.00	12-3	12-7	12-10	13-2	13-5	13-8	14-0	14-3	14-6	14-9
450.00	13-9	14-1	14-5	14-9	15-1	15-4	15-8	16-0	16-3	16-7
475.00	15-4	15-8	16-1	16-5	16-9	17-2	17-6	17-10	18-2	18-6
500.00	17-0	17-5	17-10	18-2	18-7	19-0	19-4	19-9	20-1	20-6

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-9	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-3	3-4
225.00	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3
250.00	4-4	4-5	4-6	4-8	4-9	4-10	4-11	5-0	5-2	5-2
275.00	5-3	5-4	5-6	5-7	5-9	5-10	6-0	6-1	6-2	6-4
300.00	6-3	6-5	6-6	6-8	6-10	7-0	7-1	7-3	7-5	7-6
325.00	7-4	7-6	7-8	7-10	8-0	8-2	8-4	8-6	8-8	8-10
350.00	8-6	8-8	8-11	9-1	9-4	9-6	9-8	9-10	10-1	10-3
375.00	9-9	10-0	10-3	10-5	10-8	10-11	11-1	11-4	11-6	11-9
400.00	11-1	11-4	11-8	11-11	12-2	12-5	12-8	12-11	13-2	13-4
425.00	12-6	12-10	13-2	13-5	13-9	14-0	14-3	14-7	14-10	15-1
450.00	14-0	14-5	14-9	15-1	15-5	15-8	16-0	16-4	16-8	16-11
475.00	15-8	16-0	16-5	16-9	17-2	17-6	17-10	18-2	18-6	18-10
500.00	17-4	17-9	18-2	18-7	19-0	19-5	19-9	20-2	20-6	20-10

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-5	4-6	4-6	4-7	4-8	4-9	4-9	4-10	4-11	5-0
275.00	5-4	5-5	5-6	5-7	5-8	5-9	5-9	5-10	5-11	6-0
300.00	6-4	6-5	6-6	6-7	6-9	6-10	6-11	7-0	7-1	7-2
325.00	7-5	7-7	7-8	7-9	7-11	8-0	8-1	8-2	8-4	8-5
350.00	8-8	8-9	8-11	9-0	9-2	9-3	9-5	9-6	9-8	9-9
375.00	9-11	10-1	10-2	10-4	10-6	10-8	10-9	10-11	11-1	11-2
400.00	11-3	11-5	11-7	11-9	11-11	12-1	12-3	12-5	12-7	12-9
425.00	12-9	12-11	13-1	13-4	13-6	13-8	13-10	14-0	14-2	14-4
450.00	14-3	14-6	14-8	14-11	15-1	15-4	15-6	15-9	15-11	16-1
475.00	15-11	16-2	16-5	16-7	16-10	17-1	17-4	17-6	17-9	18-0
500.00	17-8	17-11	18-2	18-5	18-8	18-11	19-2	19-5	19-8	19-11
525.00	19-5	19-9	20-0	20-4	20-7	20-10	21-2	21-5	21-8	21-11
550.00	21-4	21-8	22-0	22-3	22-7	22-11	23-2	23-6	23-10	24-1
575.00	23-4	23-8	24-0	24-4	24-8	25-0	25-4	25-8	26-0	26-4
600.00	25-5	25-9	26-2	26-6	26-11	27-3	27-8	28-0	28-4	28-8
625.00	27-7	28-0	28-5	28-10	29-2	29-7	30-0	30-5	30-9	31-2

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-6	4-6	4-7	4-8	4-9	4-9	4-10	4-11	5-0	5-0
275.00	5-5	5-6	5-7	5-8	5-9	5-10	5-10	5-11	6-0	6-1
300.00	6-5	6-6	6-7	6-9	6-10	6-11	7-0	7-1	7-2	7-3
325.00	7-6	7-8	7-9	7-11	8-0	8-1	8-2	8-4	8-5	8-6
350.00	8-9	8-11	9-0	9-2	9-3	9-5	9-6	9-8	9-9	9-11
375.00	10-0	10-2	10-4	10-6	10-8	10-9	10-11	11-1	11-3	11-4
400.00	11-5	11-7	11-9	11-11	12-1	12-3	12-5	12-7	12-9	12-11
425.00	12-11	13-1	13-3	13-6	13-8	13-10	14-0	14-3	14-5	14-7
450.00	14-6	14-8	14-11	15-1	15-4	15-6	15-9	15-11	16-2	16-4
475.00	16-1	16-4	16-7	16-10	17-1	17-4	17-7	17-9	18-0	18-3
500.00	17-10	18-2	18-5	18-8	18-11	19-2	19-5	19-8	19-11	20-2
525.00	19-8	20-0	20-4	20-7	20-10	21-2	21-5	21-9	22-0	22-3
550.00	21-7	21-11	22-3	22-7	22-11	23-3	23-6	23-10	24-2	24-5
575.00	23-8	24-0	24-4	24-8	25-1	25-5	25-9	26-1	26-5	26-9
600.00	25-9	26-2	26-6	26-11	27-3	27-8	28-0	28-5	28-9	29-1
625.00	27-11	28-4	28-9	29-2	29-7	30-0	30-5	30-10	31-2	31-7

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[illegible]

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.194	9.65	2481	9.57	2500*
0	0	0	0	0.44	7.51	1173	7.15	1232
30	0	0	0	0.44	8.56	1030	8.16	1081
40	0	0	0	0.44	8.89	992	8.48	1040
50	0	0	0	0.44	9.21	957	8.79	1003
60	0	0	0	0.44	9.53	926	9.1	969
70	0	0	0	0.44	9.83	897	9.41	938
80	0	0	0	0.44	10.13	871	9.7	909
90	0	0	0	0.44	10.43	846	9.99	883
100	0	0	0	0.44	10.71	824	10.28	858
110	0	0	0	0.44	10.99	803	10.56	836
120	0	0	0	0.44	11.2	788	10.83	815
130	0	0	0	0.44	11.36	777	11.1	795
167	0	0	0	0.44	11.97	738	11.96	738
212	0	0	0	0.44	12.68	697	12.67	697

* Design Condition

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[illegible]

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.194	15.06	2487	14.98	2500*
0	0	0	0	0.44	12.9	1069	12.51	1102
30	0	0	0	0.44	13.94	989	13.53	1019
40	0	0	0	0.44	14.28	966	13.86	995
50	0	0	0	0.44	14.61	945	14.18	973
60	0	0	0	0.44	14.93	924	14.49	952
70	0	0	0	0.44	15.25	905	14.81	932
80	0	0	0	0.44	15.56	887	15.11	913
90	0	0	0	0.44	15.86	870	15.41	895
100	0	0	0	0.44	16.17	854	15.71	879
110	0	0	0	0.44	16.46	839	16.01	863
120	0	0	0	0.44	16.73	825	16.3	847
130	0	0	0	0.44	16.91	817	16.58	833
167	0	0	0	0.44	17.57	786	17.57	787
212	0	0	0	0.44	18.35	753	18.35	754

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>266 OF 359</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH810.266
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-3	0-4	0-4	0-5	0-6	0-7
100.00	0-3	0-3	0-4	0-4	0-5	0-6	0-8	0-9	0-11	1-1
125.00	0-5	0-5	0-6	0-7	0-8	0-10	1-0	1-3	1-6	1-8
150.00	0-6	0-7	0-8	0-10	1-0	1-2	1-6	1-9	2-1	2-5
175.00	0-9	0-10	0-11	1-1	1-4	1-8	2-0	2-5	2-10	3-4
200.00	1-0	1-1	1-3	1-6	1-9	2-2	2-7	3-2	3-9	4-4

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-7	0-8
100.00	0-3	0-4	0-4	0-6	0-7	0-9	0-11	1-0	1-1	1-1
125.00	0-5	0-6	0-7	0-9	0-11	1-2	1-5	1-6	1-8	1-9
150.00	0-7	0-8	0-10	1-0	1-4	1-8	2-0	2-2	2-4	2-6
175.00	0-9	0-11	1-2	1-5	1-9	2-3	2-8	3-0	3-3	3-5
200.00	1-0	1-3	1-6	1-10	2-4	2-11	3-6	3-11	4-2	4-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 267 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH810.267
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS										

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-9
125.00	0-6	0-7	0-7	0-8	0-10	0-11	1-0	1-1	1-2	1-3
150.00	0-8	0-10	0-11	1-0	1-2	1-3	1-5	1-6	1-8	1-9
175.00	0-11	1-1	1-3	1-5	1-7	1-9	1-11	2-1	2-3	2-5
200.00	1-3	1-5	1-7	1-10	2-0	2-3	2-6	2-9	2-11	3-2
225.00	1-7	1-9	2-0	2-3	2-7	2-10	3-2	3-5	3-9	4-0
250.00	1-11	2-2	2-6	2-10	3-2	3-6	3-11	4-3	4-7	4-11

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-5	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-10
125.00	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
150.00	0-9	0-11	1-1	1-2	1-4	1-6	1-7	1-9	1-10	1-11
175.00	1-1	1-3	1-5	1-7	1-10	2-0	2-2	2-4	2-6	2-7
200.00	1-5	1-7	1-10	2-1	2-4	2-7	2-10	3-1	3-3	3-4
225.00	1-9	2-1	2-4	2-8	3-0	3-4	3-7	3-11	4-1	4-3
250.00	2-2	2-6	2-11	3-3	3-8	4-1	4-5	4-10	5-1	5-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 268 OF 359	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH810.268
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span: 300.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-11	1-0	1-1	1-2	1-3	1-4	1-4	1-5	1-6	1-7
175.00	1-3	1-5	1-6	1-7	1-8	1-9	1-10	2-0	2-1	2-2
200.00	1-8	1-10	1-11	2-1	2-2	2-4	2-5	2-7	2-8	2-10
225.00	2-1	2-3	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-6
250.00	2-7	2-10	3-0	3-3	3-5	3-8	3-10	4-0	4-2	4-4
275.00	3-2	3-5	3-8	3-11	4-2	4-5	4-7	4-10	5-1	5-3
300.00	3-9	4-1	4-4	4-8	4-11	5-3	5-6	5-9	6-0	6-3
325.00	4-5	4-9	5-1	5-6	5-10	6-2	6-5	6-9	7-1	7-5
350.00	5-1	5-6	5-11	6-4	6-9	7-1	7-6	7-10	8-3	8-7
375.00	5-11	6-4	6-10	7-3	7-9	8-2	8-7	9-0	9-5	9-10

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8
175.00	1-5	1-6	1-7	1-9	1-10	1-11	2-0	2-1	2-2	2-3
200.00	1-10	2-0	2-1	2-3	2-4	2-6	2-7	2-9	2-10	2-11
225.00	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-7	3-9
250.00	2-10	3-1	3-3	3-6	3-8	3-11	4-1	4-3	4-6	4-7
275.00	3-5	3-9	4-0	4-3	4-6	4-9	5-0	5-2	5-5	5-7
300.00	4-1	4-5	4-9	5-0	5-4	5-7	5-11	6-2	6-5	6-8
325.00	4-10	5-2	5-7	5-11	6-3	6-7	6-11	7-3	7-7	7-10
350.00	5-7	6-0	6-5	6-10	7-3	7-8	8-0	8-5	8-9	9-1
375.00	6-5	6-11	7-5	7-11	8-4	8-9	9-3	9-8	10-1	10-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 269 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.269
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8
225.00	2-6	2-7	2-8	2-9	2-11	3-0	3-1	3-2	3-3	3-4
250.00	3-1	3-2	3-4	3-5	3-7	3-8	3-9	3-11	4-0	4-1
275.00	3-8	3-10	4-0	4-2	4-4	4-5	4-7	4-9	4-10	5-0
300.00	4-5	4-7	4-9	4-11	5-1	5-3	5-5	5-7	5-9	5-11
325.00	5-2	5-5	5-7	5-10	6-0	6-2	6-5	6-7	6-9	7-0
350.00	6-0	6-3	6-6	6-9	7-0	7-2	7-5	7-8	7-10	8-1
375.00	6-11	7-2	7-5	7-9	8-0	8-3	8-6	8-9	9-0	9-3
400.00	7-10	8-2	8-6	8-10	9-1	9-5	9-8	10-0	10-3	10-7
425.00	8-10	9-3	9-7	9-11	10-3	10-7	10-11	11-3	11-7	11-11
450.00	9-11	10-4	10-9	11-2	11-6	11-11	12-3	12-8	13-0	13-4
475.00	11-0	11-6	12-0	12-5	12-10	13-3	13-8	14-1	14-6	14-11
500.00	12-3	12-9	13-3	13-9	14-3	14-8	15-2	15-7	16-1	16-6

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-1	2-2	2-3	2-4	2-5	2-5	2-6	2-7	2-8	2-9
225.00	2-7	2-8	2-10	2-11	3-0	3-1	3-2	3-4	3-5	3-6
250.00	3-3	3-4	3-6	3-7	3-9	3-10	3-11	4-1	4-2	4-3
275.00	3-11	4-1	4-2	4-4	4-6	4-8	4-9	4-11	5-1	5-2
300.00	4-7	4-10	5-0	5-2	5-4	5-6	5-8	5-10	6-0	6-2
325.00	5-5	5-8	5-10	6-1	6-3	6-6	6-8	6-11	7-1	7-3
350.00	6-4	6-7	6-10	7-1	7-4	7-6	7-9	8-0	8-2	8-5
375.00	7-3	7-6	7-10	8-1	8-4	8-8	8-11	9-2	9-5	9-8
400.00	8-3	8-7	8-11	9-3	9-6	9-10	10-2	10-5	10-9	11-0
425.00	9-3	9-8	10-0	10-5	10-9	11-1	11-5	11-9	12-1	12-5
450.00	10-5	10-10	11-3	11-8	12-1	12-5	12-10	13-2	13-7	13-11
475.00	11-7	12-1	12-6	13-0	13-5	13-10	14-4	14-8	15-1	15-6
500.00	12-10	13-5	13-11	14-5	14-11	15-4	15-10	16-4	16-9	17-2

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[illegible]

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.194	2.08	2873	1.99	3000*
0	0	0	0	0.44	0.79	2771	0.75	2939
30	0	0	0	0.44	1.18	1868	0.99	2218
40	0	0	0	0.44	1.36	1615	1.11	1986
50	0	0	0	0.44	1.58	1397	1.25	1764
60	0	0	0	0.44	1.81	1216	1.41	1559
70	0	0	0	0.44	2.06	1070	1.6	1375
80	0	0	0	0.44	2.31	954	1.81	1216
90	0	0	0	0.44	2.55	862	2.03	1082
100	0	0	0	0.44	2.75	801	2.26	972
110	0	0	0	0.44	2.87	768	2.5	882
120	0	0	0	0.44	2.99	737	2.72	808
130	0	0	0	0.44	3.11	709	2.95	747
167	0	0	0	0.44	3.55	621	3.53	623
212	0	0	0	0.44	4.06	543	4.05	544

* Design Condition

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<div>SHEET</div> <div>272 OF 359</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH810.272
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.194	8.09	2956	7.97	3000*
0	0	0	0	0.44	5.36	1642	4.89	1802
30	0	0	0	0.44	6.54	1347	5.95	1481
40	0	0	0	0.44	6.92	1273	6.31	1397
50	0	0	0	0.44	7.29	1208	6.66	1322
60	0	0	0	0.44	7.66	1151	7.01	1256
70	0	0	0	0.44	8.01	1100	7.36	1197
80	0	0	0	0.44	8.35	1055	7.7	1144
90	0	0	0	0.44	8.69	1015	8.03	1097
100	0	0	0	0.44	9.02	978	8.36	1054
110	0	0	0	0.44	9.34	945	8.68	1015
120	0	0	0	0.44	9.61	918	9	980
130	0	0	0	0.44	9.79	901	9.3	948
167	0	0	0	0.44	10.44	845	10.39	850
212	0	0	0	0.44	11.21	787	11.19	789

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>273 OF 359</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH810.273
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.194	12.59	2971	12.47	3000*
0	0	0	0	0.44	9.71	1418	9.13	1509
30	0	0	0	0.44	10.96	1257	10.32	1335
40	0	0	0	0.44	11.35	1213	10.7	1287
50	0	0	0	0.44	11.74	1173	11.08	1243
60	0	0	0	0.44	12.12	1137	11.46	1203
70	0	0	0	0.44	12.49	1103	11.82	1166
80	0	0	0	0.44	12.86	1072	12.18	1131
90	0	0	0	0.44	13.21	1043	12.53	1100
100	0	0	0	0.44	13.56	1017	12.88	1070
110	0	0	0	0.44	13.91	992	13.22	1043
120	0	0	0	0.44	14.24	969	13.56	1017
130	0	0	0	0.44	14.48	952	13.89	993
167	0	0	0	0.44	15.21	907	15.06	916
212	0	0	0	0.44	16.07	859	16.05	860

* Design Condition

* Design Condition

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B						E					
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<div style="text-align: center;"> <p>SHEET</p> <p>274 OF 359</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH810.274</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 3000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5
100.00	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-8	0-9
125.00	0-4	0-4	0-4	0-5	0-6	0-7	0-8	0-10	1-0	1-2
150.00	0-5	0-6	0-6	0-7	0-8	0-10	0-11	1-2	1-5	1-9
175.00	0-7	0-8	0-9	0-10	0-11	1-1	1-4	1-7	1-11	2-4
200.00	0-9	0-10	0-11	1-1	1-3	1-5	1-8	2-1	2-6	3-1

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-3	0-4	0-5	0-5	0-6	0-6
100.00	0-3	0-3	0-3	0-4	0-5	0-7	0-8	0-9	0-10	0-11
125.00	0-4	0-5	0-5	0-7	0-8	0-10	1-1	1-3	1-4	1-5
150.00	0-6	0-7	0-8	0-9	1-0	1-3	1-6	1-9	1-11	2-0
175.00	0-8	0-9	0-11	1-1	1-4	1-8	2-1	2-4	2-7	2-9
200.00	0-10	1-0	1-2	1-5	1-9	2-2	2-9	3-1	3-4	3-8

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> SHEET 275 OF 359 </div>		<div style="display: flex; justify-content: space-between; align-items: center;"> Indicates Latest Revision Completely Revised X New Page Information Removed </div> <div style="text-align: center; margin-top: 10px;"> SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS </div>									OH810.275

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-7
125.00	0-4	0-5	0-5	0-6	0-7	0-8	0-8	0-10	0-11	1-0
150.00	0-6	0-7	0-7	0-8	0-10	0-11	1-0	1-2	1-3	1-5
175.00	0-8	0-9	0-10	0-11	1-1	1-3	1-5	1-7	1-9	1-11
200.00	0-11	1-0	1-1	1-3	1-5	1-7	1-10	2-0	2-3	2-6
225.00	1-2	1-3	1-5	1-7	1-9	2-0	2-3	2-7	2-10	3-2
250.00	1-5	1-7	1-9	1-11	2-2	2-6	2-10	3-2	3-6	3-11

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-8	0-9
125.00	0-5	0-6	0-6	0-7	0-8	0-10	0-11	1-0	1-1	1-1
150.00	0-7	0-8	0-9	0-11	1-0	1-2	1-4	1-5	1-7	1-7
175.00	0-9	0-11	1-1	1-2	1-5	1-7	1-9	1-11	2-1	2-2
200.00	1-0	1-2	1-4	1-7	1-10	2-1	2-4	2-7	2-9	2-10
225.00	1-4	1-6	1-9	2-0	2-3	2-7	2-11	3-3	3-6	3-8
250.00	1-7	1-10	2-2	2-6	2-10	3-3	3-7	4-0	4-4	4-6

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<div>SHEET</div> <div>276 OF 359</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH810.276
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-2	1-3
175.00	0-10	0-11	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-9
200.00	1-2	1-3	1-4	1-6	1-7	1-9	1-11	2-0	2-2	2-3
225.00	1-5	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-11
250.00	1-9	1-11	2-2	2-4	2-6	2-9	2-11	3-2	3-4	3-7
275.00	2-2	2-4	2-7	2-10	3-1	3-4	3-7	3-10	4-1	4-4
300.00	2-7	2-10	3-1	3-4	3-8	3-11	4-3	4-6	4-10	5-1
325.00	3-0	3-3	3-7	3-11	4-3	4-7	5-0	5-4	5-8	6-0
350.00	3-6	3-10	4-2	4-7	4-11	5-4	5-9	6-2	6-7	7-0
375.00	4-0	4-4	4-9	5-3	5-8	6-2	6-7	7-1	7-7	8-0

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-3	1-4	1-5
175.00	1-0	1-1	1-3	1-4	1-5	1-7	1-8	1-9	1-10	1-11
200.00	1-4	1-5	1-7	1-9	1-10	2-0	2-2	2-3	2-5	2-6
225.00	1-8	1-10	2-0	2-2	2-4	2-7	2-9	2-11	3-1	3-2
250.00	2-0	2-3	2-6	2-8	2-11	3-2	3-4	3-7	3-9	3-11
275.00	2-5	2-9	3-0	3-3	3-6	3-10	4-1	4-4	4-7	4-9
300.00	2-11	3-3	3-7	3-11	4-3	4-6	4-10	5-2	5-5	5-8
325.00	3-5	3-10	4-2	4-7	4-11	5-4	5-8	6-0	6-5	6-8
350.00	4-0	4-5	4-10	5-4	5-9	6-2	6-7	7-0	7-5	7-9
375.00	4-7	5-1	5-7	6-1	6-7	7-1	7-7	8-1	8-6	8-11

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SHEET 277 OF 359	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	OH810.277
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS						

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 281 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.281
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS									


Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	1.941	64.73	1000	64.73	1000*
20	0	0	0	0.44	64.3	228	64.27	228
30	0	0	0	0.44	64.38	228	64.36	228
40	0	0	0	0.44	64.47	228	64.44	228
50	0	0	0	0.44	64.55	227	64.52	227
60	0	0	0	0.44	64.63	227	64.61	227
70	0	0	0	0.44	64.71	227	64.69	227
80	0	0	0	0.44	64.77	227	64.77	227
90	0	0	0	0.44	64.82	226	64.82	226
100	0	0	0	0.44	64.88	226	64.88	226
110	0	0	0	0.44	64.93	226	64.93	226
120	0	0	0	0.44	64.99	226	64.99	226
130	0	0	0	0.44	65.04	226	65.04	226
167	0	0	0	0.44	65.25	225	65.25	225
212	0	0	0	0.44	65.49	224	65.49	224

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>282 OF 359</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH810.282</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 1000 LBS</p> </div>				

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DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 1000 LBS

OH810.282

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-5	1-5	1-6
100.00	1-11	2-1	2-2	2-3	2-4	2-5	2-6	2-6	2-7	2-7
125.00	3-1	3-2	3-4	3-6	3-7	3-9	3-10	3-11	4-0	4-1
150.00	4-5	4-7	4-10	5-0	5-2	5-5	5-7	5-8	5-10	5-11
175.00	6-0	6-3	6-7	6-10	7-1	7-4	7-7	7-9	7-11	8-1
200.00	7-10	8-2	8-7	8-11	9-3	9-7	9-11	10-1	10-4	10-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-1	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-5	1-6
100.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-6	2-7	2-7
125.00	3-1	3-3	3-5	3-6	3-8	3-9	3-10	3-11	4-0	4-1
150.00	4-5	4-8	4-10	5-1	5-3	5-5	5-7	5-8	5-10	5-11
175.00	6-1	6-4	6-7	6-11	7-2	7-5	7-7	7-9	7-11	8-1
200.00	7-11	8-3	8-8	9-0	9-4	9-8	9-11	10-1	10-4	10-6

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 283 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.283
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-4	2-4	2-4	2-5	2-5	2-5	2-5	2-6	2-6	2-6
125.00	3-8	3-8	3-8	3-9	3-9	3-10	3-10	3-10	3-11	3-11
150.00	5-3	5-4	5-4	5-5	5-5	5-6	5-6	5-7	5-7	5-7
175.00	7-2	7-3	7-3	7-4	7-5	7-6	7-6	7-7	7-7	7-8
200.00	9-4	9-5	9-6	9-7	9-8	9-9	9-10	9-11	9-11	10-0
225.00	11-10	11-11	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8
250.00	14-7	14-9	14-11	15-0	15-2	15-3	15-5	15-6	15-7	15-8

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-4	2-4	2-5	2-5	2-5	2-5	2-5	2-6	2-6	2-6
125.00	3-8	3-8	3-9	3-9	3-9	3-10	3-10	3-10	3-11	3-11
150.00	5-3	5-4	5-4	5-5	5-5	5-6	5-6	5-7	5-7	5-7
175.00	7-2	7-3	7-4	7-4	7-5	7-6	7-6	7-7	7-7	7-8
200.00	9-4	9-5	9-6	9-7	9-8	9-9	9-10	9-11	9-11	10-0
225.00	11-10	12-0	12-1	12-2	12-3	12-5	12-5	12-6	12-7	12-8
250.00	14-8	14-9	14-11	15-1	15-2	15-4	15-5	15-6	15-7	15-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 284 OF 359	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH810.284
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-5	5-5	5-6	5-6	5-6	5-6	5-7	5-7	5-7	5-7
175.00	7-5	7-5	7-6	7-6	7-6	7-7	7-7	7-7	7-7	7-8
200.00	9-8	9-9	9-9	9-9	9-10	9-10	9-11	9-11	9-11	10-0
225.00	12-3	12-4	12-4	12-5	12-5	12-6	12-6	12-7	12-7	12-8
250.00	15-2	15-3	15-3	15-4	15-5	15-5	15-6	15-6	15-7	15-7
275.00	18-4	18-5	18-6	18-7	18-8	18-8	18-9	18-10	18-10	18-11
300.00	21-10	21-11	22-0	22-1	22-2	22-3	22-4	22-5	22-6	22-6
325.00	25-8	25-9	25-11	26-0	26-1	26-2	26-3	26-4	26-5	26-6
350.00	29-10	29-11	30-1	30-2	30-3	30-5	30-6	30-7	30-8	30-9
375.00	34-3	34-5	34-7	34-8	34-10	34-11	35-1	35-2	35-3	35-4

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-5	5-6	5-6	5-6	5-6	5-7	5-7	5-7	5-7	5-7
175.00	7-5	7-5	7-6	7-6	7-6	7-7	7-7	7-7	7-7	7-8
200.00	9-8	9-9	9-9	9-10	9-10	9-10	9-11	9-11	9-11	10-0
225.00	12-3	12-4	12-4	12-5	12-6	12-6	12-6	12-7	12-7	12-8
250.00	15-2	15-3	15-3	15-4	15-5	15-5	15-6	15-6	15-7	15-7
275.00	18-4	18-5	18-6	18-7	18-8	18-9	18-9	18-10	18-10	18-11
300.00	21-11	22-0	22-1	22-2	22-3	22-4	22-4	22-5	22-6	22-6
325.00	25-9	25-10	25-11	26-0	26-1	26-2	26-3	26-4	26-5	26-6
350.00	29-10	30-0	30-1	30-2	30-4	30-5	30-6	30-7	30-8	30-9
375.00	34-4	34-6	34-7	34-9	34-10	35-0	35-1	35-2	35-3	35-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 285 OF 359					Indicates Latest Revision						OH810.285
					Completely Revised X New Page			Information Removed			
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	9-11	9-11	9-11	9-11	10-0	10-0	10-0	10-0	10-0	10-1
225.00	12-6	12-7	12-7	12-7	12-8	12-8	12-8	12-8	12-9	12-9
250.00	15-6	15-6	15-7	15-7	15-7	15-8	15-8	15-8	15-9	15-9
275.00	18-9	18-10	18-10	18-10	18-11	18-11	19-0	19-0	19-0	19-1
300.00	22-4	22-5	22-5	22-6	22-6	22-7	22-7	22-8	22-8	22-8
325.00	26-3	26-4	26-4	26-5	26-6	26-6	26-7	26-7	26-8	26-8
350.00	30-6	30-7	30-7	30-8	30-9	30-10	30-10	30-11	30-11	31-0
375.00	35-1	35-2	35-2	35-3	35-4	35-5	35-6	35-6	35-7	35-8
400.00	39-11	40-0	40-1	40-2	40-3	40-4	40-5	40-6	40-7	40-7
425.00	45-2	45-3	45-4	45-5	45-7	45-8	45-9	45-10	45-10	45-11
450.00	50-9	50-10	50-11	51-1	51-2	51-3	51-4	51-5	51-6	51-7
475.00	56-7	56-9	56-10	57-0	57-1	57-3	57-4	57-5	57-6	57-7
500.00	62-10	63-0	63-2	63-3	63-5	63-6	63-8	63-9	63-10	63-11

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	9-11	9-11	9-11	9-11	10-0	10-0	10-0	10-0	10-0	10-1
225.00	12-6	12-7	12-7	12-7	12-8	12-8	12-8	12-8	12-9	12-9
250.00	15-6	15-6	15-7	15-7	15-7	15-8	15-8	15-8	15-9	15-9
275.00	18-9	18-10	18-10	18-11	18-11	18-11	19-0	19-0	19-0	19-1
300.00	22-4	22-5	22-5	22-6	22-6	22-7	22-7	22-8	22-8	22-8
325.00	26-3	26-4	26-5	26-5	26-6	26-6	26-7	26-7	26-8	26-8
350.00	30-6	30-7	30-8	30-8	30-9	30-10	30-10	30-11	30-11	31-0
375.00	35-1	35-2	35-3	35-4	35-4	35-5	35-6	35-6	35-7	35-8
400.00	40-0	40-1	40-2	40-3	40-4	40-5	40-5	40-6	40-7	40-7
425.00	45-2	45-4	45-5	45-6	45-7	45-8	45-9	45-10	45-10	45-11
450.00	50-9	50-10	51-0	51-1	51-2	51-3	51-4	51-5	51-6	51-7
475.00	56-8	56-9	56-11	57-0	57-2	57-3	57-4	57-5	57-6	57-7
500.00	62-11	63-1	63-2	63-4	63-5	63-7	63-8	63-9	63-10	63-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 286 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.286
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	15-10	15-10	15-10	15-11	15-11	15-11	15-11	15-11	16-0	16-0
275.00	19-2	19-2	19-3	19-3	19-3	19-3	19-4	19-4	19-4	19-4
300.00	22-10	22-10	22-11	22-11	22-11	23-0	23-0	23-0	23-0	23-1
325.00	26-10	26-10	26-11	26-11	27-0	27-0	27-0	27-1	27-1	27-1
350.00	31-2	31-2	31-3	31-3	31-4	31-4	31-5	31-5	31-5	31-6
375.00	35-10	35-10	35-11	36-0	36-0	36-1	36-1	36-1	36-2	36-2
400.00	40-10	40-11	40-11	41-0	41-0	41-1	41-2	41-2	41-2	41-3
425.00	46-2	46-3	46-3	46-4	46-5	46-6	46-6	46-7	46-7	46-8
450.00	51-10	51-11	52-0	52-1	52-1	52-2	52-3	52-4	52-4	52-5
475.00	57-11	58-0	58-0	58-1	58-2	58-3	58-4	58-5	58-5	58-6
500.00	64-3	64-4	64-5	64-6	64-7	64-8	64-9	64-10	64-11	64-11
525.00	71-0	71-1	71-2	71-4	71-5	71-6	71-7	71-8	71-8	71-9
550.00	78-1	78-3	78-4	78-5	78-6	78-7	78-9	78-9	78-10	78-11
575.00	85-7	85-8	85-10	85-11	86-0	86-2	86-3	86-4	86-5	86-6
600.00	93-5	93-7	93-8	93-9	93-11	94-0	94-2	94-3	94-4	94-5
625.00	101-7	101-9	101-11	102-0	102-2	102-3	102-5	102-6	102-7	102-8

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<div style="text-align: center;"> <p>SHEET</p> <p>287 OF 359</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH810.287</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 1000 LBS</p> </div>						

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	1.941	6.5	1500	6.5	1500*
20	0	0	0	0.44	5.68	388	5.63	392
30	0	0	0	0.44	5.82	379	5.76	383
40	0	0	0	0.44	5.95	371	5.89	375
50	0	0	0	0.44	6.09	363	6.02	367
60	0	0	0	0.44	6.21	355	6.15	359
70	0	0	0	0.44	6.34	348	6.27	352
80	0	0	0	0.44	6.46	342	6.39	346
90	0	0	0	0.44	6.54	338	6.51	339
100	0	0	0	0.44	6.62	334	6.62	334
110	0	0	0	0.44	6.7	330	6.7	330
120	0	0	0	0.44	6.77	326	6.77	326
130	0	0	0	0.44	6.85	323	6.85	323
167	0	0	0	0.44	7.13	310	7.13	310
212	0	0	0	0.44	7.45	297	7.45	297

* Design Condition

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C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 288 OF 359		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH810.288
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS											

Span =	500	ft						
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	1.941	41.55	1500	41.55	1500*
20	0	0	0	0.44	40.76	346	40.71	347
30	0	0	0	0.44	40.89	345	40.83	346
40	0	0	0	0.44	41.02	344	40.96	345
50	0	0	0	0.44	41.14	343	41.08	344
60	0	0	0	0.44	41.27	342	41.2	343
70	0	0	0	0.44	41.39	341	41.32	342
80	0	0	0	0.44	41.51	340	41.44	341
90	0	0	0	0.44	41.59	340	41.56	340
100	0	0	0	0.44	41.67	339	41.67	339
110	0	0	0	0.44	41.76	338	41.76	338
120	0	0	0	0.44	41.84	338	41.84	338
130	0	0	0	0.44	41.92	337	41.92	337
167	0	0	0	0.44	42.22	335	42.22	335
212	0	0	0	0.44	42.59	332	42.59	332
* Design Condition								

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 290 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.290
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-0
100.00	0-8	0-10	1-0	1-2	1-3	1-5	1-6	1-8	1-9	1-9
125.00	1-1	1-4	1-7	1-9	2-0	2-2	2-4	2-7	2-8	2-10
150.00	1-7	1-11	2-3	2-7	2-10	3-2	3-5	3-8	3-11	4-0
175.00	2-2	2-7	3-0	3-6	3-11	4-3	4-8	5-0	5-3	5-6
200.00	2-10	3-5	4-0	4-7	5-1	5-7	6-1	6-7	6-11	7-2

Stringing Sag Table Using Final Sag							Ruling Span:	100.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-0
100.00	0-9	0-11	1-1	1-2	1-4	1-6	1-7	1-8	1-9	1-9
125.00	1-2	1-5	1-8	1-11	2-1	2-4	2-6	2-7	2-8	2-10
150.00	1-8	2-0	2-4	2-8	3-0	3-4	3-7	3-9	3-11	4-0
175.00	2-3	2-9	3-3	3-8	4-1	4-6	4-10	5-1	5-3	5-6
200.00	3-0	3-7	4-3	4-10	5-4	5-11	6-4	6-7	6-11	7-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 291 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH810.291
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-5	1-5	1-6	1-6	1-6	1-7	1-7	1-8	1-8	1-8
125.00	2-2	2-3	2-4	2-4	2-5	2-5	2-6	2-6	2-7	2-7
150.00	3-2	3-3	3-4	3-5	3-5	3-6	3-7	3-8	3-9	3-9
175.00	4-4	4-5	4-6	4-7	4-8	4-10	4-11	5-0	5-1	5-1
200.00	5-8	5-9	5-11	6-0	6-2	6-3	6-5	6-6	6-7	6-8
225.00	7-1	7-4	7-6	7-7	7-9	7-11	8-1	8-3	8-5	8-6
250.00	8-10	9-0	9-3	9-5	9-7	9-10	10-0	10-2	10-4	10-6

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-5	1-5	1-6	1-6	1-7	1-7	1-7	1-8	1-8	1-8
125.00	2-3	2-3	2-4	2-5	2-5	2-6	2-6	2-7	2-7	2-7
150.00	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-8	3-9	3-9
175.00	4-4	4-5	4-7	4-8	4-9	4-10	4-11	5-0	5-1	5-1
200.00	5-8	5-10	5-11	6-1	6-3	6-4	6-5	6-6	6-7	6-8
225.00	7-2	7-4	7-6	7-8	7-10	8-0	8-2	8-3	8-5	8-6
250.00	8-11	9-1	9-4	9-6	9-9	9-11	10-1	10-3	10-4	10-6

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 292 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.292
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-5	3-6	3-6	3-7	3-7	3-7	3-8	3-8	3-8	3-9
175.00	4-8	4-9	4-9	4-10	4-10	4-11	4-11	5-0	5-0	5-1
200.00	6-2	6-2	6-3	6-4	6-4	6-5	6-6	6-6	6-7	6-7
225.00	7-9	7-10	7-11	8-0	8-1	8-2	8-2	8-3	8-4	8-4
250.00	9-7	9-8	9-9	9-10	9-11	10-0	10-1	10-2	10-3	10-4
275.00	11-8	11-9	11-10	11-11	12-1	12-2	12-3	12-4	12-5	12-6
300.00	13-10	14-0	14-1	14-3	14-4	14-6	14-7	14-9	14-10	14-11
325.00	16-3	16-5	16-7	16-8	16-10	17-0	17-2	17-3	17-5	17-6
350.00	18-10	19-0	19-3	19-5	19-7	19-9	19-11	20-1	20-2	20-4
375.00	21-8	21-10	22-1	22-3	22-5	22-8	22-10	23-0	23-2	23-4

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-6	3-6	3-6	3-7	3-7	3-8	3-8	3-8	3-8	3-9
175.00	4-9	4-9	4-10	4-10	4-11	4-11	5-0	5-0	5-0	5-1
200.00	6-2	6-3	6-3	6-4	6-5	6-5	6-6	6-6	6-7	6-7
225.00	7-10	7-11	7-11	8-0	8-1	8-2	8-3	8-3	8-4	8-4
250.00	9-8	9-9	9-10	9-11	10-0	10-1	10-2	10-3	10-3	10-4
275.00	11-8	11-9	11-11	12-0	12-1	12-3	12-4	12-4	12-5	12-6
300.00	13-11	14-0	14-2	14-3	14-5	14-6	14-8	14-9	14-10	14-11
325.00	16-4	16-6	16-8	16-9	16-11	17-1	17-2	17-4	17-5	17-6
350.00	18-11	19-1	19-4	19-6	19-8	19-10	20-0	20-1	20-2	20-4
375.00	21-9	22-0	22-2	22-4	22-7	22-9	22-11	23-1	23-2	23-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 293 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.293
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-4	6-5	6-5	6-5	6-6	6-6	6-6	6-7	6-7	6-7
225.00	8-0	8-1	8-1	8-2	8-2	8-3	8-3	8-4	8-4	8-4
250.00	9-11	10-0	10-0	10-1	10-1	10-2	10-2	10-3	10-4	10-4
275.00	12-0	12-1	12-2	12-2	12-3	12-4	12-4	12-5	12-6	12-6
300.00	14-4	14-4	14-5	14-6	14-7	14-8	14-9	14-9	14-10	14-11
325.00	16-10	16-10	16-11	17-0	17-1	17-2	17-3	17-4	17-5	17-6
350.00	19-6	19-7	19-8	19-9	19-10	19-11	20-1	20-2	20-3	20-3
375.00	22-5	22-6	22-7	22-8	22-10	22-11	23-0	23-2	23-3	23-4
400.00	25-6	25-7	25-9	25-10	26-0	26-1	26-3	26-4	26-5	26-6
425.00	28-9	28-11	29-1	29-2	29-4	29-6	29-7	29-9	29-11	30-0
450.00	32-4	32-5	32-7	32-9	32-11	33-1	33-3	33-5	33-6	33-8
475.00	36-0	36-2	36-4	36-6	36-9	36-11	37-1	37-3	37-5	37-6
500.00	39-11	40-2	40-4	40-6	40-9	40-11	41-1	41-3	41-6	41-7

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-4	6-5	6-5	6-5	6-6	6-6	6-7	6-7	6-7	6-7
225.00	8-1	8-1	8-2	8-2	8-3	8-3	8-3	8-4	8-4	8-4
250.00	9-11	10-0	10-0	10-1	10-2	10-2	10-3	10-3	10-4	10-4
275.00	12-0	12-1	12-2	12-3	12-3	12-4	12-5	12-5	12-6	12-6
300.00	14-4	14-5	14-6	14-7	14-7	14-8	14-9	14-10	14-10	14-11
325.00	16-10	16-11	17-0	17-1	17-2	17-3	17-4	17-4	17-5	17-6
350.00	19-6	19-7	19-9	19-10	19-11	20-0	20-1	20-2	20-3	20-3
375.00	22-5	22-6	22-8	22-9	22-10	23-0	23-1	23-2	23-3	23-4
400.00	25-6	25-8	25-9	25-11	26-1	26-2	26-3	26-4	26-5	26-6
425.00	28-10	29-0	29-2	29-3	29-5	29-7	29-8	29-9	29-11	30-0
450.00	32-4	32-6	32-8	32-10	33-0	33-2	33-4	33-5	33-6	33-8
475.00	36-1	36-3	36-5	36-8	36-10	37-0	37-2	37-3	37-5	37-6
500.00	40-0	40-3	40-5	40-7	40-10	41-0	41-2	41-4	41-6	41-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>294 OF 359</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH810.294
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	10-1	10-2	10-2	10-2	10-3	10-3	10-3	10-4	10-4	10-4
275.00	12-3	12-3	12-4	12-4	12-5	12-5	12-5	12-6	12-6	12-7
300.00	14-7	14-7	14-8	14-8	14-9	14-9	14-10	14-11	14-11	14-11
325.00	17-1	17-2	17-3	17-3	17-4	17-4	17-5	17-6	17-6	17-7
350.00	19-10	19-11	20-0	20-0	20-1	20-2	20-3	20-3	20-4	20-4
375.00	22-10	22-11	22-11	23-0	23-1	23-2	23-3	23-3	23-4	23-5
400.00	26-0	26-1	26-2	26-2	26-3	26-4	26-5	26-6	26-7	26-8
425.00	29-4	29-5	29-6	29-7	29-8	29-9	29-10	29-11	30-0	30-1
450.00	32-11	33-0	33-1	33-3	33-4	33-5	33-6	33-7	33-8	33-9
475.00	36-9	36-10	36-11	37-0	37-2	37-3	37-4	37-6	37-7	37-8
500.00	40-9	40-10	40-11	41-1	41-2	41-4	41-5	41-7	41-8	41-9
525.00	44-11	45-1	45-2	45-4	45-6	45-7	45-9	45-10	46-0	46-1
550.00	49-4	49-6	49-8	49-10	49-11	50-1	50-3	50-5	50-6	50-7
575.00	54-0	54-2	54-4	54-6	54-8	54-10	55-0	55-2	55-3	55-5
600.00	58-10	59-0	59-2	59-5	59-7	59-9	59-11	60-1	60-3	60-4
625.00	63-11	64-1	64-4	64-6	64-8	64-11	65-1	65-3	65-5	65-7

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	10-1	10-2	10-2	10-3	10-3	10-3	10-4	10-4	10-4	10-4
275.00	12-3	12-4	12-4	12-4	12-5	12-5	12-6	12-6	12-6	12-7
300.00	14-7	14-8	14-8	14-9	14-9	14-10	14-10	14-11	14-11	14-11
325.00	17-2	17-2	17-3	17-4	17-4	17-5	17-5	17-6	17-6	17-7
350.00	19-11	19-11	20-0	20-1	20-2	20-2	20-3	20-3	20-4	20-4
375.00	22-10	22-11	23-0	23-1	23-1	23-2	23-3	23-4	23-4	23-5
400.00	26-0	26-1	26-2	26-3	26-4	26-5	26-6	26-6	26-7	26-8
425.00	29-5	29-6	29-7	29-8	29-9	29-10	29-11	30-0	30-0	30-1
450.00	33-0	33-1	33-2	33-3	33-4	33-6	33-7	33-8	33-8	33-9
475.00	36-9	36-10	37-0	37-1	37-3	37-4	37-5	37-6	37-7	37-8
500.00	40-9	40-11	41-0	41-2	41-3	41-5	41-6	41-7	41-8	41-9
525.00	45-0	45-1	45-3	45-5	45-6	45-8	45-10	45-11	46-0	46-1
550.00	49-5	49-7	49-9	49-10	50-0	50-2	50-4	50-5	50-6	50-7
575.00	54-1	54-3	54-5	54-7	54-9	54-11	55-1	55-2	55-3	55-5
600.00	58-11	59-1	59-4	59-6	59-8	59-10	60-0	60-2	60-3	60-4
625.00	64-0	64-2	64-5	64-7	64-10	65-0	65-2	65-4	65-5	65-7

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>295 OF 359</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.295
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>296 OF 359</h2> </div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH810.296	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS									

Span = 500 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	1.941	30.78	2000	30.78	2000*
20	0	0	0	0.44	29.55	472	29.43	474
30	0	0	0	0.44	29.72	469	29.6	471
40	0	0	0	0.44	29.89	467	29.77	468
50	0	0	0	0.44	30.06	464	29.93	466
60	0	0	0	0.44	30.23	462	30.09	464
70	0	0	0	0.44	30.39	459	30.26	461
80	0	0	0	0.44	30.56	457	30.42	459
90	0	0	0	0.44	30.7	455	30.58	456
100	0	0	0	0.44	30.81	453	30.74	454
110	0	0	0	0.44	30.92	452	30.9	452
120	0	0	0	0.44	31.03	450	31.03	450
130	0	0	0	0.44	31.14	448	31.14	448
167	0	0	0	0.44	31.54	443	31.54	443
212	0	0	0	0.44	32.01	437	32.01	437

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET
298 OF 359

Indicates Latest Revision

Completely Revised



New Page

Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
336.4 - 26/7 ACSR/AW TENSION 2000 LBS

OH810.298

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9
100.00	0-4	0-4	0-5	0-6	0-7	0-9	0-11	1-0	1-2	1-4
125.00	0-6	0-7	0-8	0-9	1-0	1-2	1-5	1-8	1-10	2-1
150.00	0-8	0-9	0-11	1-2	1-5	1-8	2-0	2-4	2-8	2-11
175.00	0-11	1-1	1-3	1-6	1-11	2-4	2-9	3-2	3-7	4-0
200.00	1-2	1-5	1-8	2-0	2-6	3-0	3-7	4-2	4-9	5-3

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-8	0-9
100.00	0-4	0-5	0-6	0-7	0-9	0-11	1-1	1-2	1-3	1-4
125.00	0-6	0-7	0-9	0-11	1-2	1-5	1-8	1-10	1-11	2-1
150.00	0-9	0-10	1-1	1-4	1-8	2-1	2-5	2-7	2-9	2-11
175.00	1-0	1-2	1-6	1-10	2-4	2-9	3-3	3-7	3-9	4-0
200.00	1-3	1-6	1-11	2-5	3-0	3-8	4-3	4-8	4-11	5-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 299 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH810.299
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-2	1-3
125.00	1-4	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-11	1-11
150.00	1-11	2-0	2-2	2-3	2-4	2-5	2-6	2-8	2-9	2-10
175.00	2-7	2-9	2-11	3-1	3-2	3-4	3-5	3-7	3-8	3-10
200.00	3-5	3-7	3-10	4-0	4-2	4-4	4-6	4-8	4-10	5-0
225.00	4-4	4-7	4-10	5-1	5-3	5-6	5-8	5-11	6-1	6-4
250.00	5-4	5-8	5-11	6-3	6-6	6-9	7-1	7-4	7-7	7-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3
125.00	1-5	1-6	1-6	1-7	1-8	1-9	1-10	1-10	1-11	1-11
150.00	2-0	2-1	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10
175.00	2-9	2-10	3-0	3-2	3-4	3-5	3-7	3-8	3-9	3-10
200.00	3-7	3-9	3-11	4-1	4-4	4-6	4-8	4-9	4-11	5-0
225.00	4-6	4-9	5-0	5-3	5-5	5-8	5-11	6-1	6-2	6-4
250.00	5-6	5-10	6-2	6-5	6-9	7-0	7-3	7-6	7-8	7-10

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-5	2-5	2-6	2-6	2-7	2-7	2-8	2-8	2-9	2-9
175.00	3-3	3-4	3-5	3-5	3-6	3-7	3-7	3-8	3-9	3-9
200.00	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-9	4-10	4-11
225.00	5-5	5-6	5-7	5-8	5-9	5-10	6-0	6-1	6-2	6-3
250.00	6-8	6-9	6-11	7-0	7-2	7-3	7-4	7-6	7-7	7-8
275.00	8-1	8-2	8-4	8-6	8-8	8-9	8-11	9-1	9-2	9-4
300.00	9-7	9-9	9-11	10-1	10-3	10-5	10-7	10-9	10-11	11-1
325.00	11-3	11-6	11-8	11-10	12-1	12-3	12-6	12-8	12-10	13-0
350.00	13-1	13-4	13-6	13-9	14-0	14-3	14-5	14-8	14-11	15-1
375.00	15-0	15-3	15-7	15-10	16-1	16-4	16-7	16-10	17-1	17-4

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-5	2-6	2-6	2-7	2-7	2-8	2-8	2-9	2-9	2-9
175.00	3-4	3-4	3-5	3-6	3-6	3-7	3-8	3-8	3-9	3-9
200.00	4-4	4-5	4-6	4-7	4-8	4-8	4-9	4-10	4-11	4-11
225.00	5-6	5-7	5-8	5-9	5-10	5-11	6-1	6-1	6-2	6-3
250.00	6-9	6-10	7-0	7-1	7-3	7-4	7-6	7-7	7-8	7-8
275.00	8-2	8-4	8-6	8-7	8-9	8-11	9-0	9-2	9-3	9-4
300.00	9-9	9-11	10-1	10-3	10-5	10-7	10-9	10-11	11-0	11-1
325.00	11-5	11-7	11-10	12-0	12-3	12-5	12-7	12-9	12-11	13-0
350.00	13-3	13-6	13-9	13-11	14-2	14-5	14-8	14-10	15-0	15-2
375.00	15-2	15-6	15-9	16-0	16-3	16-7	16-10	17-0	17-2	17-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 301 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.301
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-7	4-7	4-8	4-8	4-9	4-9	4-10	4-10	4-11	4-11
225.00	5-9	5-10	5-10	5-11	6-0	6-0	6-1	6-1	6-2	6-3
250.00	7-1	7-2	7-3	7-4	7-4	7-5	7-6	7-7	7-7	7-8
275.00	8-7	8-8	8-9	8-10	8-11	9-0	9-1	9-2	9-3	9-4
300.00	10-3	10-4	10-5	10-6	10-7	10-9	10-10	10-11	11-0	11-1
325.00	12-0	12-2	12-3	12-4	12-6	12-7	12-8	12-9	12-11	13-0
350.00	13-11	14-1	14-3	14-4	14-6	14-7	14-9	14-10	15-0	15-1
375.00	16-0	16-2	16-4	16-6	16-7	16-9	16-11	17-0	17-2	17-4
400.00	18-3	18-5	18-7	18-9	18-11	19-1	19-3	19-5	19-7	19-9
425.00	20-7	20-9	21-0	21-2	21-4	21-6	21-9	21-11	22-1	22-3
450.00	23-1	23-4	23-6	23-9	23-11	24-2	24-4	24-7	24-9	25-0
475.00	25-9	26-0	26-3	26-5	26-8	26-11	27-2	27-5	27-7	27-10
500.00	28-6	28-10	29-1	29-4	29-7	29-10	30-1	30-4	30-7	30-10


Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-7	4-7	4-8	4-8	4-9	4-9	4-10	4-10	4-11	4-11
225.00	5-10	5-10	5-11	5-11	6-0	6-1	6-1	6-2	6-2	6-3
250.00	7-2	7-3	7-3	7-4	7-5	7-6	7-7	7-7	7-8	7-8
275.00	8-8	8-9	8-10	8-11	9-0	9-1	9-2	9-2	9-3	9-4
300.00	10-4	10-5	10-6	10-7	10-8	10-9	10-11	11-0	11-0	11-1
325.00	12-1	12-3	12-4	12-5	12-7	12-8	12-9	12-10	12-11	13-0
350.00	14-0	14-2	14-4	14-5	14-7	14-8	14-10	14-11	15-0	15-1
375.00	16-1	16-3	16-5	16-7	16-9	16-10	17-0	17-2	17-3	17-4
400.00	18-4	18-6	18-8	18-10	19-0	19-2	19-4	19-6	19-7	19-9
425.00	20-9	20-11	21-1	21-4	21-6	21-8	21-11	22-0	22-2	22-3
450.00	23-3	23-6	23-8	23-11	24-1	24-4	24-6	24-9	24-10	25-0
475.00	25-11	26-2	26-5	26-8	26-11	27-1	27-4	27-7	27-8	27-10
500.00	28-9	29-0	29-3	29-6	29-10	30-1	30-4	30-6	30-9	30-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 302 OF 359		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH810.302
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS											

Stringing Sag Table Using Initial Sag							Ruling Span: 500.0		Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
250.00	7-4	7-4	7-5	7-5	7-6	7-6	7-7	7-7	7-8	7-8
275.00	8-11	8-11	9-0	9-0	9-1	9-1	9-2	9-3	9-3	9-4
300.00	10-7	10-7	10-8	10-9	10-10	10-10	10-11	11-0	11-0	11-1
325.00	12-5	12-6	12-7	12-7	12-8	12-9	12-10	12-11	12-11	13-0
350.00	14-5	14-6	14-7	14-8	14-9	14-9	14-10	14-11	15-0	15-1
375.00	16-6	16-7	16-9	16-10	16-11	17-0	17-1	17-2	17-3	17-4
400.00	18-10	18-11	19-0	19-1	19-3	19-4	19-5	19-6	19-8	19-9
425.00	21-3	21-4	21-6	21-7	21-9	21-10	21-11	22-1	22-2	22-4
450.00	23-10	23-11	24-1	24-3	24-4	24-6	24-7	24-9	24-11	25-0
475.00	26-7	26-8	26-10	27-0	27-2	27-4	27-5	27-7	27-9	27-11
500.00	29-5	29-7	29-9	29-11	30-1	30-3	30-5	30-7	30-9	30-11
525.00	32-6	32-8	32-10	33-0	33-2	33-5	33-7	33-9	33-11	34-1
550.00	35-8	35-10	36-1	36-3	36-5	36-8	36-10	37-1	37-3	37-5
575.00	39-0	39-2	39-5	39-8	39-10	40-1	40-4	40-6	40-9	40-11
600.00	42-6	42-9	42-11	43-2	43-5	43-8	43-11	44-2	44-4	44-7
625.00	46-1	46-4	46-8	46-11	47-2	47-5	47-8	47-11	48-2	48-5

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<div style="text-align: center;"> <p>SHEET</p> <p>303 OF 359</p> </div>	Indicates Latest Revision		Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH810.303</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 2000 LBS</p> </div>					

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>305 OF 359</h2> </div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH810.305	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.941	24.49	2500	24.49	2500*
20	0	0	0	0.44	22.7	611	22.5	616
30	0	0	0	0.44	22.92	605	22.71	610
40	0	0	0	0.44	23.14	599	22.92	605
50	0	0	0	0.44	23.35	594	23.13	600
60	0	0	0	0.44	23.57	589	23.34	594
70	0	0	0	0.44	23.78	583	23.55	589
80	0	0	0	0.44	23.99	578	23.75	584
90	0	0	0	0.44	24.2	574	23.96	579
100	0	0	0	0.44	24.35	570	24.16	575
110	0	0	0	0.44	24.48	567	24.36	570
120	0	0	0	0.44	24.62	564	24.56	565
130	0	0	0	0.44	24.75	561	24.75	561
167	0	0	0	0.44	25.24	550	25.24	550
212	0	0	0	0.44	25.82	538	25.82	538
* Design Condition								

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>306 OF 359</p> </div>	Indicates Latest Revision	Completely Revised	New Page	Information Removed	<div style="text-align: center;"> <p>OH810.306</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 2500 LBS</p> </div>				

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6
100.00	0-2	0-3	0-3	0-3	0-4	0-5	0-6	0-7	0-9	0-10
125.00	0-4	0-4	0-5	0-5	0-6	0-8	0-9	0-11	1-2	1-4
150.00	0-6	0-6	0-7	0-8	0-9	0-11	1-1	1-4	1-8	2-0
175.00	0-8	0-8	0-9	0-11	1-0	1-3	1-6	1-10	2-3	2-8
200.00	0-10	0-11	1-0	1-2	1-4	1-7	1-11	2-5	2-11	3-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-6	0-7
100.00	0-3	0-3	0-4	0-5	0-6	0-7	0-9	0-10	0-11	1-0
125.00	0-4	0-5	0-6	0-7	0-9	0-11	1-2	1-4	1-5	1-6
150.00	0-6	0-7	0-8	0-10	1-1	1-4	1-8	1-11	2-0	2-2
175.00	0-8	0-10	0-11	1-2	1-5	1-10	2-3	2-7	2-9	3-0
200.00	0-11	1-1	1-3	1-6	1-11	2-5	3-0	3-4	3-7	3-11

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Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-7	0-8	0-8	0-9	0-9	0-10	0-11	0-11
125.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6
150.00	1-0	1-2	1-3	1-5	1-6	1-8	1-9	1-11	2-0	2-1
175.00	1-5	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-11
200.00	1-10	2-1	2-3	2-6	2-9	2-11	3-2	3-4	3-7	3-9
225.00	2-4	2-7	2-11	3-2	3-5	3-9	4-0	4-3	4-6	4-9
250.00	2-10	3-2	3-7	3-11	4-3	4-7	4-11	5-3	5-7	5-11

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-7	0-8	0-9	0-10	0-10	0-11	0-11	1-0
125.00	0-9	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-6
150.00	1-1	1-3	1-5	1-6	1-8	1-10	1-11	2-0	2-1	2-2
175.00	1-6	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-0
200.00	2-0	2-3	2-6	2-9	3-0	3-2	3-5	3-7	3-9	3-11
225.00	2-6	2-10	3-2	3-5	3-9	4-0	4-4	4-7	4-9	4-11
250.00	3-1	3-6	3-11	4-3	4-8	5-0	5-4	5-8	5-11	6-1

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 308 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH810.308
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-8	1-9	1-9	1-10	1-11	1-11	2-0	2-1	2-1	2-2
175.00	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-10	2-11
200.00	3-0	3-1	3-2	3-3	3-5	3-6	3-7	3-8	3-9	3-10
225.00	3-9	3-11	4-0	4-2	4-3	4-5	4-6	4-8	4-9	4-10
250.00	4-8	4-10	5-0	5-1	5-3	5-5	5-7	5-9	5-10	6-0
275.00	5-7	5-10	6-0	6-2	6-5	6-7	6-9	6-11	7-1	7-3
300.00	6-8	6-11	7-2	7-5	7-7	7-10	8-0	8-3	8-5	8-8
325.00	7-10	8-2	8-5	8-8	8-11	9-2	9-5	9-8	9-11	10-2
350.00	9-1	9-5	9-9	10-1	10-4	10-8	10-11	11-3	11-6	11-9
375.00	10-5	10-10	11-2	11-6	11-11	12-3	12-7	12-10	13-2	13-6

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-9	1-9	1-10	1-11	1-11	2-0	2-1	2-1	2-2	2-2
175.00	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-11	3-0
200.00	3-1	3-2	3-3	3-5	3-6	3-7	3-8	3-9	3-10	3-11
225.00	3-11	4-0	4-2	4-3	4-5	4-6	4-8	4-9	4-10	4-11
250.00	4-10	5-0	5-2	5-3	5-5	5-7	5-9	5-11	6-0	6-1
275.00	5-10	6-0	6-2	6-5	6-7	6-9	6-11	7-1	7-3	7-4
300.00	6-11	7-2	7-5	7-7	7-10	8-1	8-3	8-6	8-8	8-9
325.00	8-1	8-5	8-8	8-11	9-2	9-5	9-8	9-11	10-2	10-3
350.00	9-5	9-9	10-1	10-4	10-8	11-0	11-3	11-6	11-9	11-11
375.00	10-10	11-2	11-6	11-11	12-3	12-7	12-11	13-3	13-6	13-8

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 309 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.309
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-5	3-5	3-6	3-7	3-7	3-8	3-9	3-9	3-10	3-10
225.00	4-4	4-4	4-5	4-6	4-7	4-8	4-8	4-9	4-10	4-11
250.00	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1
275.00	6-5	6-6	6-8	6-9	6-10	6-11	7-0	7-1	7-3	7-4
300.00	7-8	7-9	7-11	8-0	8-2	8-3	8-4	8-6	8-7	8-8
325.00	9-0	9-1	9-3	9-5	9-7	9-8	9-10	9-11	10-1	10-3
350.00	10-5	10-7	10-9	10-11	11-1	11-3	11-5	11-7	11-8	11-10
375.00	11-11	12-2	12-4	12-6	12-9	12-11	13-1	13-3	13-5	13-7
400.00	13-7	13-10	14-0	14-3	14-6	14-8	14-11	15-1	15-3	15-6
425.00	15-4	15-7	15-10	16-1	16-4	16-7	16-10	17-0	17-3	17-6
450.00	17-3	17-6	17-9	18-1	18-4	18-7	18-10	19-1	19-4	19-7
475.00	19-2	19-6	19-10	20-1	20-5	20-8	21-0	21-3	21-7	21-10
500.00	21-3	21-7	21-11	22-3	22-7	22-11	23-3	23-7	23-11	24-3

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-5	3-6	3-7	3-7	3-8	3-9	3-9	3-10	3-10	3-11
225.00	4-4	4-5	4-6	4-7	4-8	4-9	4-9	4-10	4-11	4-11
250.00	5-5	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-0	6-1
275.00	6-6	6-8	6-9	6-10	6-11	7-0	7-2	7-3	7-4	7-4
300.00	7-9	7-11	8-0	8-2	8-3	8-5	8-6	8-7	8-8	8-9
325.00	9-1	9-3	9-5	9-7	9-8	9-10	10-0	10-1	10-3	10-4
350.00	10-7	10-9	10-11	11-1	11-3	11-5	11-7	11-9	11-10	11-11
375.00	12-2	12-4	12-6	12-9	12-11	13-1	13-3	13-6	13-7	13-9
400.00	13-10	14-0	14-3	14-6	14-8	14-11	15-1	15-4	15-6	15-7
425.00	15-7	15-10	16-1	16-4	16-7	16-10	17-1	17-4	17-6	17-8
450.00	17-6	17-9	18-1	18-4	18-7	18-11	19-2	19-5	19-7	19-9
475.00	19-6	19-10	20-1	20-5	20-9	21-0	21-4	21-8	21-10	22-0
500.00	21-7	21-11	22-4	22-8	23-0	23-4	23-8	24-0	24-3	24-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 310 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.310
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>312 OF 359</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.312
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	1.941	12.99	3000	12.99	3000*
20	0	0	0	0.44	10.5	841	10.14	870
30	0	0	0	0.44	10.78	819	10.42	847
40	0	0	0	0.44	11.06	798	10.7	825
50	0	0	0	0.44	11.33	779	10.97	805
60	0	0	0	0.44	11.6	761	11.23	786
70	0	0	0	0.44	11.87	744	11.49	768
80	0	0	0	0.44	12.12	729	11.75	752
90	0	0	0	0.44	12.38	714	12	736
100	0	0	0	0.44	12.62	700	12.24	721
110	0	0	0	0.44	12.78	692	12.49	707
120	0	0	0	0.44	12.93	683	12.73	694
130	0	0	0	0.44	13.08	676	12.96	682
167	0	0	0	0.44	13.63	648	13.63	649
212	0	0	0	0.44	14.28	619	14.28	619
* Design Condition								


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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 313 OF 359		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH810.313
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS											

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	1.941	20.35	3000	20.35	3000*
20	0	0	0	0.44	17.9	772	17.55	787
30	0	0	0	0.44	18.17	761	17.82	776
40	0	0	0	0.44	18.44	750	18.08	764
50	0	0	0	0.44	18.7	739	18.34	754
60	0	0	0	0.44	18.96	729	18.6	743
70	0	0	0	0.44	19.22	720	18.85	734
80	0	0	0	0.44	19.48	710	19.1	724
90	0	0	0	0.44	19.73	701	19.35	715
100	0	0	0	0.44	19.97	693	19.6	706
110	0	0	0	0.44	20.13	688	19.84	697
120	0	0	0	0.44	20.29	682	20.08	689
130	0	0	0	0.44	20.44	677	20.32	681
167	0	0	0	0.44	21.01	659	21.01	659
212	0	0	0	0.44	21.69	639	21.69	639
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>314 OF 359</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH810.314</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 3000 LBS</p> </div>				

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-4
100.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6
125.00	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7	0-8	0-10
150.00	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-10	1-0	1-2
175.00	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-1	1-4	1-7
200.00	0-8	0-9	0-9	0-10	0-11	1-1	1-3	1-5	1-9	2-1

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-1	0-1	0-2	0-2	0-2	0-3	0-4	0-4	0-5	0-5
100.00	0-2	0-3	0-3	0-3	0-4	0-5	0-6	0-8	0-8	0-9
125.00	0-4	0-4	0-5	0-5	0-7	0-8	0-10	1-0	1-1	1-2
150.00	0-5	0-6	0-7	0-8	0-9	1-0	1-3	1-5	1-6	1-8
175.00	0-7	0-8	0-9	0-11	1-1	1-4	1-8	1-11	2-1	2-3
200.00	0-9	0-10	1-0	1-2	1-5	1-9	2-2	2-6	2-9	3-0

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 315 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH810.315
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-8
125.00	0-5	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1
150.00	0-7	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-5	1-7
175.00	0-9	0-10	1-0	1-1	1-3	1-5	1-7	1-9	1-11	2-2
200.00	1-0	1-2	1-3	1-5	1-8	1-10	2-1	2-4	2-7	2-9
225.00	1-4	1-5	1-8	1-10	2-1	2-4	2-8	2-11	3-3	3-6
250.00	1-7	1-9	2-0	2-3	2-7	2-11	3-3	3-8	4-0	4-4

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-5	0-5	0-6	0-7	0-8	0-8	0-9	0-9
125.00	0-5	0-6	0-7	0-8	0-10	0-11	1-0	1-1	1-2	1-2
150.00	0-8	0-9	0-10	1-0	1-2	1-3	1-5	1-7	1-8	1-9
175.00	0-11	1-0	1-2	1-4	1-7	1-9	1-11	2-1	2-3	2-4
200.00	1-2	1-4	1-7	1-9	2-0	2-3	2-6	2-9	2-11	3-1
225.00	1-6	1-8	2-0	2-3	2-7	2-11	3-2	3-6	3-9	3-11
250.00	1-10	2-1	2-5	2-9	3-2	3-7	3-11	4-4	4-7	4-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 316 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH810.316
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-1	1-2	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-8
175.00	1-6	1-7	1-8	1-9	1-11	2-0	2-1	2-2	2-3	2-4
200.00	1-11	2-1	2-3	2-4	2-5	2-7	2-8	2-10	2-11	3-0
225.00	2-6	2-8	2-10	2-11	3-1	3-3	3-5	3-7	3-8	3-10
250.00	3-1	3-3	3-5	3-8	3-10	4-0	4-2	4-5	4-7	4-9
275.00	3-8	3-11	4-2	4-5	4-8	4-10	5-1	5-4	5-6	5-9
300.00	4-5	4-8	5-0	5-3	5-6	5-10	6-1	6-4	6-7	6-10
325.00	5-2	5-6	5-10	6-2	6-6	6-10	7-1	7-5	7-8	8-0
350.00	6-0	6-5	6-9	7-2	7-6	7-11	8-3	8-7	8-11	9-3
375.00	6-10	7-4	7-9	8-3	8-8	9-1	9-6	9-10	10-3	10-8

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-9	1-9
175.00	1-7	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5
200.00	2-1	2-3	2-4	2-6	2-7	2-9	2-10	3-0	3-1	3-2
225.00	2-8	2-10	3-0	3-2	3-4	3-6	3-7	3-9	3-11	4-0
250.00	3-3	3-6	3-8	3-11	4-1	4-3	4-6	4-8	4-10	4-11
275.00	4-0	4-3	4-6	4-9	5-0	5-2	5-5	5-7	5-10	6-0
300.00	4-9	5-0	5-4	5-7	5-11	6-2	6-5	6-8	6-11	7-1
325.00	5-7	5-11	6-3	6-7	6-11	7-3	7-7	7-10	8-2	8-4
350.00	6-5	6-10	7-3	7-8	8-0	8-5	8-9	9-1	9-5	9-8
375.00	7-5	7-11	8-4	8-9	9-3	9-8	10-1	10-5	10-10	11-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>317 OF 359</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH810.317
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-6	2-7	2-8	2-9	2-10	2-10	2-11	3-0	3-1	3-1
225.00	3-2	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-10	3-11
250.00	4-0	4-1	4-2	4-3	4-5	4-6	4-7	4-8	4-9	4-10
275.00	4-10	4-11	5-1	5-2	5-4	5-5	5-7	5-8	5-9	5-11
300.00	5-8	5-10	6-0	6-2	6-4	6-6	6-7	6-9	6-11	7-0
325.00	6-8	6-11	7-1	7-3	7-5	7-7	7-9	7-11	8-1	8-3
350.00	7-9	8-0	8-2	8-5	8-7	8-10	9-0	9-2	9-4	9-7
375.00	8-11	9-2	9-5	9-8	9-10	10-1	10-4	10-7	10-9	11-0
400.00	10-2	10-5	10-8	11-0	11-3	11-6	11-9	12-0	12-3	12-6
425.00	11-5	11-9	12-1	12-5	12-8	13-0	13-3	13-7	13-10	14-1
450.00	12-10	13-2	13-7	13-11	14-3	14-7	14-10	15-2	15-6	15-10
475.00	14-4	14-8	15-1	15-6	15-10	16-3	16-7	16-11	17-3	17-7
500.00	15-10	16-4	16-9	17-2	17-7	18-0	18-4	18-9	19-2	19-6

Stringing Sag Table Using Final Sag							Ruling Span:	400.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-7	2-8	2-9	2-10	2-11	3-0	3-0	3-1	3-2	3-2
225.00	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-0
250.00	4-1	4-3	4-4	4-5	4-6	4-8	4-9	4-10	4-11	5-0
275.00	5-0	5-1	5-3	5-4	5-6	5-7	5-9	5-10	6-0	6-0
300.00	5-11	6-1	6-3	6-4	6-6	6-8	6-10	6-11	7-1	7-2
325.00	6-11	7-1	7-4	7-6	7-8	7-10	8-0	8-2	8-4	8-5
350.00	8-0	8-3	8-6	8-8	8-11	9-1	9-3	9-6	9-8	9-9
375.00	9-3	9-6	9-9	10-0	10-2	10-5	10-8	10-11	11-1	11-3
400.00	10-6	10-9	11-1	11-4	11-7	11-10	12-1	12-5	12-7	12-9
425.00	11-10	12-2	12-6	12-10	13-1	13-5	13-8	14-0	14-3	14-5
450.00	13-3	13-8	14-0	14-4	14-8	15-0	15-4	15-8	16-0	16-2
475.00	14-10	15-3	15-7	16-0	16-4	16-9	17-1	17-6	17-10	18-0
500.00	16-5	16-10	17-4	17-9	18-2	18-7	18-11	19-4	19-9	20-0

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 318 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.318
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH		D					
		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		
SHEET 320 OF 359		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS								OH810.320	
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	1.941	40.4	1000	40.4	1000*
0	0	0	0	0.44	40.03	229	39.99	229
30	0	0	0	0.44	40.3	227	40.27	227
40	0	0	0	0.44	40.39	227	40.35	227
50	0	0	0	0.44	40.47	226	40.43	227
60	0	0	0	0.44	40.55	226	40.52	226
70	0	0	0	0.44	40.62	226	40.6	226
80	0	0	0	0.44	40.68	225	40.68	225
90	0	0	0	0.44	40.73	225	40.73	225
100	0	0	0	0.44	40.79	225	40.79	225
110	0	0	0	0.44	40.84	224	40.84	224
120	0	0	0	0.44	40.9	224	40.9	224
130	0	0	0	0.44	40.95	224	40.95	224
167	0	0	0	0.44	41.15	223	41.15	223
212	0	0	0	0.44	41.4	222	41.4	222

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH		D					
SHEET 321 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.321
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	1.941	64.73	1000	64.73	1000*
0	0	0	0	0.44	64.36	228	64.32	228
30	0	0	0	0.44	64.63	227	64.6	227
40	0	0	0	0.44	64.72	227	64.68	227
50	0	0	0	0.44	64.8	227	64.76	227
60	0	0	0	0.44	64.88	226	64.84	226
70	0	0	0	0.44	64.95	226	64.92	226
80	0	0	0	0.44	65.01	226	65	226
90	0	0	0	0.44	65.06	226	65.06	226
100	0	0	0	0.44	65.12	226	65.12	226
110	0	0	0	0.44	65.17	225	65.17	225
120	0	0	0	0.44	65.23	225	65.23	225
130	0	0	0	0.44	65.28	225	65.28	225
167	0	0	0	0.44	65.48	224	65.48	224
212	0	0	0	0.44	65.73	224	65.73	224
* Design Condition								

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH		D					

<div style="text-align: center;"> <p>SHEET</p> <p>322 OF 359</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH810.322</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 1000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-6	1-7	1-7
100.00	2-3	2-4	2-5	2-6	2-7	2-7	2-8	2-9	2-9	2-10
125.00	3-6	3-7	3-9	3-10	4-0	4-1	4-2	4-3	4-4	4-5
150.00	5-0	5-2	5-4	5-7	5-9	5-11	6-1	6-2	6-3	6-4
175.00	6-10	7-1	7-4	7-7	7-10	8-0	8-3	8-5	8-6	8-8
200.00	8-11	9-3	9-7	9-11	10-2	10-6	10-9	11-0	11-2	11-4

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-6	1-7	1-7
100.00	2-3	2-4	2-5	2-6	2-7	2-8	2-8	2-9	2-9	2-10
125.00	3-6	3-8	3-9	3-11	4-0	4-1	4-2	4-3	4-4	4-5
150.00	5-1	5-3	5-5	5-8	5-10	5-11	6-1	6-2	6-3	6-4
175.00	6-11	7-2	7-5	7-8	7-11	8-1	8-3	8-5	8-6	8-8
200.00	9-0	9-4	9-8	10-0	10-4	10-7	10-9	11-0	11-2	11-4

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH		D					
<div>SHEET</div> <div>323 OF 359</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.323
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-5	2-5	2-5	2-5	2-6	2-6	2-6	2-6	2-6	2-7
125.00	3-9	3-9	3-10	3-10	3-10	3-11	3-11	3-11	4-0	4-0
150.00	5-5	5-5	5-6	5-6	5-7	5-7	5-8	5-8	5-9	5-9
175.00	7-4	7-5	7-6	7-6	7-7	7-8	7-8	7-9	7-9	7-10
200.00	9-7	9-8	9-9	9-10	9-11	10-0	10-1	10-1	10-2	10-3
225.00	12-2	12-3	12-4	12-5	12-7	12-8	12-9	12-10	12-11	12-11
250.00	15-0	15-2	15-3	15-5	15-6	15-8	15-9	15-10	15-11	16-0

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-5	2-5	2-5	2-6	2-6	2-6	2-6	2-6	2-6	2-7
125.00	3-9	3-9	3-10	3-10	3-11	3-11	3-11	3-11	4-0	4-0
150.00	5-5	5-5	5-6	5-6	5-7	5-8	5-8	5-8	5-9	5-9
175.00	7-4	7-5	7-6	7-7	7-7	7-8	7-8	7-9	7-9	7-10
200.00	9-7	9-8	9-9	9-10	9-11	10-0	10-1	10-1	10-2	10-3
225.00	12-2	12-3	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-11
250.00	15-1	15-2	15-4	15-5	15-7	15-8	15-9	15-10	15-11	16-0

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH		D					
SHEET 324 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.324
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-6	5-6	5-6	5-7	5-7	5-7	5-7	5-8	5-8	5-8
175.00	7-6	7-6	7-7	7-7	7-7	7-7	7-8	7-8	7-8	7-8
200.00	9-9	9-10	9-10	9-11	9-11	10-0	10-0	10-0	10-1	10-1
225.00	12-5	12-5	12-6	12-6	12-7	12-7	12-8	12-8	12-9	12-9
250.00	15-4	15-5	15-5	15-6	15-7	15-7	15-8	15-8	15-9	15-9
275.00	18-7	18-7	18-8	18-9	18-10	18-11	19-0	19-0	19-1	19-1
300.00	22-1	22-2	22-3	22-4	22-5	22-6	22-7	22-8	22-8	22-9
325.00	26-0	26-1	26-2	26-3	26-4	26-5	26-7	26-7	26-8	26-9
350.00	30-2	30-3	30-5	30-6	30-7	30-9	30-10	30-11	31-0	31-1
375.00	34-8	34-10	34-11	35-1	35-2	35-4	35-5	35-6	35-7	35-8

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-6	5-6	5-7	5-7	5-7	5-7	5-7	5-8	5-8	5-8
175.00	7-6	7-6	7-7	7-7	7-7	7-8	7-8	7-8	7-8	7-8
200.00	9-10	9-10	9-10	9-11	9-11	10-0	10-0	10-0	10-1	10-1
225.00	12-5	12-6	12-6	12-7	12-7	12-8	12-8	12-8	12-9	12-9
250.00	15-4	15-5	15-5	15-6	15-7	15-7	15-8	15-8	15-9	15-9
275.00	18-7	18-8	18-9	18-9	18-10	18-11	19-0	19-0	19-1	19-1
300.00	22-2	22-3	22-4	22-5	22-6	22-6	22-7	22-8	22-8	22-9
325.00	26-0	26-1	26-2	26-4	26-5	26-6	26-7	26-7	26-8	26-9
350.00	30-2	30-4	30-5	30-7	30-8	30-9	30-10	30-11	31-0	31-1
375.00	34-9	34-10	35-0	35-1	35-3	35-4	35-5	35-6	35-7	35-8

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C						F						
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A	ORIGINAL ISSUE	GW	JS	CZH		D						
SHEET 325 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH810.325
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1000 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	9-11	10-0	10-0	10-0	10-0	10-1	10-1	10-1	10-1	10-1
225.00	12-7	12-8	12-8	12-8	12-8	12-9	12-9	12-9	12-9	12-10
250.00	15-7	15-7	15-8	15-8	15-8	15-9	15-9	15-9	15-10	15-10
275.00	18-10	18-11	18-11	19-0	19-0	19-1	19-1	19-1	19-2	19-2
300.00	22-6	22-6	22-7	22-7	22-8	22-8	22-9	22-9	22-10	22-10
325.00	26-5	26-6	26-6	26-7	26-8	26-8	26-9	26-9	26-10	26-10
350.00	30-8	30-9	30-10	30-10	30-11	31-0	31-1	31-1	31-2	31-2
375.00	35-3	35-4	35-5	35-6	35-7	35-7	35-8	35-9	35-9	35-10
400.00	40-2	40-3	40-4	40-5	40-6	40-7	40-8	40-9	40-9	40-10
425.00	45-5	45-7	45-8	45-9	45-10	45-11	46-0	46-1	46-2	46-2
450.00	51-0	51-2	51-3	51-4	51-5	51-7	51-8	51-9	51-10	51-11
475.00	57-0	57-1	57-3	57-4	57-5	57-7	57-8	57-9	57-10	57-11
500.00	63-3	63-5	63-6	63-8	63-9	63-11	64-0	64-2	64-3	64-4

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	9-11	10-0	10-0	10-0	10-0	10-1	10-1	10-1	10-1	10-1
225.00	12-7	12-8	12-8	12-8	12-9	12-9	12-9	12-9	12-9	12-10
250.00	15-7	15-7	15-8	15-8	15-9	15-9	15-9	15-9	15-10	15-10
275.00	18-11	18-11	18-11	19-0	19-0	19-1	19-1	19-1	19-2	19-2
300.00	22-6	22-6	22-7	22-8	22-8	22-9	22-9	22-9	22-10	22-10
325.00	26-5	26-6	26-6	26-7	26-8	26-8	26-9	26-9	26-10	26-10
350.00	30-8	30-9	30-10	30-11	30-11	31-0	31-1	31-1	31-2	31-2
375.00	35-4	35-4	35-5	35-6	35-7	35-8	35-8	35-9	35-9	35-10
400.00	40-3	40-4	40-5	40-6	40-7	40-7	40-8	40-9	40-9	40-10
425.00	45-6	45-7	45-8	45-9	45-10	45-11	46-0	46-1	46-2	46-2
450.00	51-1	51-2	51-4	51-5	51-6	51-7	51-8	51-9	51-10	51-11
475.00	57-0	57-2	57-3	57-5	57-6	57-7	57-8	57-9	57-10	57-11
500.00	63-4	63-5	63-7	63-8	63-10	63-11	64-0	64-2	64-3	64-4

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 329 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.329
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	1.941	41.55	1500	41.55	1500*
0	0	0	0	0.44	40.89	345	40.8	346
30	0	0	0	0.44	41.27	342	41.2	343
40	0	0	0	0.44	41.39	341	41.32	342
50	0	0	0	0.44	41.52	340	41.44	341
60	0	0	0	0.44	41.64	339	41.56	340
70	0	0	0	0.44	41.76	338	41.68	339
80	0	0	0	0.44	41.86	338	41.8	338
90	0	0	0	0.44	41.94	337	41.92	337
100	0	0	0	0.44	42.03	336	42.03	336
110	0	0	0	0.44	42.11	336	42.11	336
120	0	0	0	0.44	42.19	335	42.19	335
130	0	0	0	0.44	42.27	335	42.27	335
167	0	0	0	0.44	42.57	332	42.57	332
212	0	0	0	0.44	42.94	330	42.94	330

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>330 OF 359</p> </div>	Indicates Latest Revision	Completely Revised	New Page	Information Removed	<div style="text-align: center;"> <p>OH810.330</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 1500 LBS</p> </div>				

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-9	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-2
100.00	1-2	1-3	1-5	1-6	1-8	1-9	1-10	1-11	2-0	2-1
125.00	1-9	2-0	2-2	2-4	2-7	2-9	2-11	3-0	3-2	3-3
150.00	2-7	2-10	3-2	3-5	3-8	3-11	4-2	4-4	4-6	4-8
175.00	3-6	3-11	4-3	4-8	5-0	5-4	5-8	5-11	6-2	6-4
200.00	4-6	5-1	5-7	6-1	6-6	7-0	7-5	7-9	8-0	8-3

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-2
100.00	1-2	1-4	1-6	1-7	1-8	1-10	1-10	1-11	2-0	2-1
125.00	1-11	2-1	2-4	2-6	2-8	2-10	2-11	3-0	3-2	3-3
150.00	2-8	3-0	3-4	3-7	3-10	4-1	4-3	4-4	4-6	4-8
175.00	3-8	4-1	4-6	4-10	5-3	5-7	5-9	5-11	6-2	6-4
200.00	4-10	5-4	5-11	6-4	6-10	7-3	7-6	7-9	8-0	8-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 331 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.331
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-6	1-6	1-7	1-7	1-7	1-8	1-8	1-9	1-9	1-9
125.00	2-4	2-5	2-5	2-6	2-6	2-7	2-8	2-8	2-9	2-9
150.00	3-5	3-5	3-6	3-7	3-8	3-9	3-9	3-10	3-11	3-11
175.00	4-7	4-8	4-10	4-11	5-0	5-1	5-2	5-3	5-4	5-4
200.00	6-0	6-2	6-3	6-5	6-6	6-7	6-9	6-10	6-11	7-0
225.00	7-7	7-9	7-11	8-1	8-3	8-5	8-6	8-8	8-10	8-11
250.00	9-5	9-7	9-10	10-0	10-2	10-4	10-6	10-9	10-10	11-0

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-6	1-7	1-7	1-7	1-8	1-8	1-8	1-9	1-9	1-9
125.00	2-5	2-5	2-6	2-6	2-7	2-7	2-8	2-8	2-9	2-9
150.00	3-5	3-6	3-7	3-8	3-8	3-9	3-10	3-10	3-11	3-11
175.00	4-8	4-9	4-10	4-11	5-0	5-2	5-2	5-3	5-4	5-4
200.00	6-1	6-3	6-4	6-6	6-7	6-8	6-10	6-10	6-11	7-0
225.00	7-8	7-10	8-0	8-2	8-4	8-6	8-7	8-8	8-10	8-11
250.00	9-6	9-9	9-11	10-1	10-4	10-6	10-7	10-9	10-10	11-0

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 332 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.332
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-7	3-7	3-7	3-8	3-8	3-8	3-9	3-9	3-9	3-10
175.00	4-10	4-10	4-11	4-11	5-0	5-0	5-1	5-1	5-2	5-2
200.00	6-4	6-4	6-5	6-6	6-6	6-7	6-8	6-8	6-9	6-9
225.00	8-0	8-1	8-1	8-2	8-3	8-4	8-5	8-6	8-6	8-7
250.00	9-10	9-11	10-0	10-1	10-2	10-3	10-4	10-5	10-6	10-7
275.00	11-11	12-1	12-2	12-3	12-4	12-5	12-7	12-8	12-9	12-10
300.00	14-3	14-4	14-6	14-7	14-8	14-10	14-11	15-1	15-2	15-3
325.00	16-8	16-10	17-0	17-2	17-3	17-5	17-7	17-8	17-10	17-11
350.00	19-4	19-6	19-8	19-10	20-0	20-2	20-4	20-6	20-8	20-9
375.00	22-3	22-5	22-8	22-10	23-0	23-2	23-5	23-7	23-9	23-10

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-7	3-7	3-8	3-8	3-8	3-9	3-9	3-9	3-9	3-10
175.00	4-10	4-11	4-11	5-0	5-0	5-1	5-1	5-1	5-2	5-2
200.00	6-4	6-5	6-5	6-6	6-7	6-7	6-8	6-8	6-9	6-9
225.00	8-0	8-1	8-2	8-3	8-4	8-4	8-5	8-6	8-6	8-7
250.00	9-11	10-0	10-1	10-2	10-3	10-4	10-5	10-6	10-6	10-7
275.00	12-0	12-1	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10
300.00	14-3	14-5	14-6	14-8	14-9	14-11	15-0	15-1	15-2	15-3
325.00	16-9	16-11	17-1	17-3	17-4	17-6	17-7	17-9	17-10	17-11
350.00	19-6	19-8	19-10	20-0	20-2	20-4	20-5	20-7	20-8	20-9
375.00	22-4	22-7	22-9	22-11	23-2	23-4	23-6	23-7	23-9	23-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 333 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.333
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-5	6-6	6-6	6-6	6-7	6-7	6-7	6-8	6-8	6-8
225.00	8-2	8-2	8-3	8-3	8-4	8-4	8-4	8-5	8-5	8-6
250.00	10-1	10-1	10-2	10-2	10-3	10-4	10-4	10-5	10-5	10-6
275.00	12-2	12-3	12-4	12-4	12-5	12-6	12-6	12-7	12-8	12-8
300.00	14-6	14-7	14-8	14-9	14-9	14-10	14-11	15-0	15-0	15-1
325.00	17-0	17-1	17-2	17-3	17-4	17-5	17-6	17-7	17-8	17-9
350.00	19-9	19-10	19-11	20-1	20-2	20-3	20-4	20-5	20-6	20-7
375.00	22-8	22-10	22-11	23-0	23-2	23-3	23-4	23-5	23-6	23-7
400.00	25-10	26-0	26-1	26-3	26-4	26-5	26-7	26-8	26-10	26-11
425.00	29-2	29-4	29-6	29-7	29-9	29-11	30-0	30-2	30-3	30-4
450.00	32-9	32-11	33-1	33-3	33-5	33-6	33-8	33-10	34-0	34-1
475.00	36-6	36-8	36-11	37-1	37-3	37-5	37-7	37-9	37-11	38-0
500.00	40-6	40-8	40-11	41-1	41-3	41-6	41-8	41-10	42-0	42-2

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-5	6-6	6-6	6-7	6-7	6-7	6-8	6-8	6-8	6-8
225.00	8-2	8-3	8-3	8-3	8-4	8-4	8-5	8-5	8-5	8-6
250.00	10-1	10-2	10-2	10-3	10-3	10-4	10-4	10-5	10-5	10-6
275.00	12-3	12-3	12-4	12-5	12-5	12-6	12-7	12-7	12-8	12-8
300.00	14-7	14-7	14-8	14-9	14-10	14-11	14-11	15-0	15-0	15-1
325.00	17-1	17-2	17-3	17-4	17-5	17-6	17-7	17-7	17-8	17-9
350.00	19-10	19-11	20-0	20-1	20-2	20-3	20-4	20-5	20-6	20-7
375.00	22-9	22-10	23-0	23-1	23-2	23-4	23-5	23-6	23-6	23-7
400.00	25-11	26-1	26-2	26-3	26-5	26-6	26-8	26-9	26-10	26-11
425.00	29-3	29-5	29-7	29-8	29-10	30-0	30-1	30-2	30-3	30-4
450.00	32-10	33-0	33-2	33-4	33-6	33-8	33-9	33-10	34-0	34-1
475.00	36-8	36-10	37-0	37-2	37-4	37-6	37-8	37-9	37-11	38-0
500.00	40-7	40-10	41-0	41-3	41-5	41-7	41-9	41-11	42-0	42-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 334 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH810.334
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 1500 LBS										

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	1.941	19.59	2000	19.59	2000*
0	0	0	0	0.44	18.52	479	18.4	482
30	0	0	0	0.44	19.04	466	18.9	470
40	0	0	0	0.44	19.2	462	19.06	466
50	0	0	0	0.44	19.37	459	19.22	462
60	0	0	0	0.44	19.54	455	19.38	458
70	0	0	0	0.44	19.7	451	19.54	455
80	0	0	0	0.44	19.86	447	19.7	451
90	0	0	0	0.44	19.97	445	19.86	447
100	0	0	0	0.44	20.08	443	20.02	444
110	0	0	0	0.44	20.18	440	20.18	441
120	0	0	0	0.44	20.29	438	20.29	438
130	0	0	0	0.44	20.4	436	20.4	436
167	0	0	0	0.44	20.78	428	20.78	428
212	0	0	0	0.44	21.24	419	21.24	419

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 337 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH810.337
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS										

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	1.941	30.78	2000	30.78	2000*
0	0	0	0	0.44	29.72	469	29.59	471
30	0	0	0	0.44	30.23	462	30.09	464
40	0	0	0	0.44	30.39	459	30.25	461
50	0	0	0	0.44	30.56	457	30.41	459
60	0	0	0	0.44	30.73	454	30.57	456
70	0	0	0	0.44	30.89	452	30.73	454
80	0	0	0	0.44	31.05	450	30.89	452
90	0	0	0	0.44	31.17	448	31.05	450
100	0	0	0	0.44	31.27	447	31.21	447
110	0	0	0	0.44	31.38	445	31.37	445
120	0	0	0	0.44	31.49	444	31.49	444
130	0	0	0	0.44	31.6	442	31.6	442
167	0	0	0	0.44	31.99	437	31.99	437
212	0	0	0	0.44	32.46	431	32.46	431
* Design Condition								

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>338 OF 359</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH810.338</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 2000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11
100.00	0-6	0-7	0-9	0-11	1-0	1-2	1-4	1-5	1-7	1-7
125.00	0-9	0-11	1-2	1-5	1-7	1-10	2-1	2-3	2-5	2-6
150.00	1-1	1-4	1-8	2-0	2-4	2-8	2-11	3-3	3-6	3-8
175.00	1-6	1-10	2-3	2-9	3-2	3-7	4-0	4-5	4-9	5-0
200.00	2-0	2-5	3-0	3-7	4-2	4-8	5-3	5-9	6-3	6-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-9	0-10	0-10	0-11
100.00	0-7	0-8	0-10	1-0	1-2	1-4	1-5	1-6	1-7	1-7
125.00	0-11	1-1	1-4	1-7	1-10	2-0	2-2	2-4	2-5	2-6
150.00	1-3	1-7	1-11	2-3	2-7	2-11	3-2	3-4	3-6	3-8
175.00	1-9	2-2	2-8	3-1	3-7	4-0	4-4	4-6	4-9	5-0
200.00	2-3	2-10	3-5	4-1	4-8	5-3	5-7	5-11	6-3	6-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 339 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH810.339
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS										

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4
125.00	1-7	1-7	1-8	1-9	1-10	1-11	1-11	2-0	2-1	2-1
150.00	2-3	2-4	2-5	2-6	2-7	2-9	2-10	2-11	3-0	3-0
175.00	3-1	3-2	3-4	3-5	3-7	3-8	3-10	3-11	4-0	4-2
200.00	4-0	4-2	4-4	4-6	4-8	4-10	5-0	5-1	5-3	5-5
225.00	5-1	5-3	5-6	5-8	5-11	6-1	6-4	6-6	6-8	6-10
250.00	6-3	6-6	6-9	7-0	7-3	7-6	7-9	8-0	8-3	8-5

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-4
125.00	1-7	1-8	1-9	1-10	1-11	1-11	2-0	2-0	2-1	2-1
150.00	2-4	2-5	2-6	2-7	2-8	2-10	2-10	2-11	3-0	3-0
175.00	3-2	3-4	3-5	3-7	3-8	3-10	3-11	4-0	4-1	4-2
200.00	4-1	4-4	4-6	4-8	4-10	5-0	5-1	5-2	5-4	5-5
225.00	5-3	5-5	5-8	5-11	6-1	6-3	6-6	6-7	6-9	6-10
250.00	6-5	6-9	7-0	7-3	7-6	7-9	8-0	8-2	8-3	8-5

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 340 OF 359	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH810.340
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-6	2-7	2-7	2-8	2-8	2-9	2-9	2-10	2-10	2-11
175.00	3-5	3-6	3-7	3-7	3-8	3-9	3-9	3-10	3-10	3-11
200.00	4-6	4-7	4-8	4-9	4-9	4-10	4-11	5-0	5-1	5-2
225.00	5-8	5-9	5-10	6-0	6-1	6-2	6-3	6-4	6-5	6-6
250.00	7-0	7-2	7-3	7-4	7-6	7-7	7-8	7-10	7-11	8-0
275.00	8-6	8-8	8-9	8-11	9-1	9-2	9-4	9-5	9-7	9-8
300.00	10-1	10-3	10-5	10-7	10-9	10-11	11-1	11-3	11-5	11-7
325.00	11-10	12-1	12-3	12-5	12-8	12-10	13-0	13-2	13-5	13-7
350.00	13-9	14-0	14-3	14-5	14-8	14-11	15-1	15-4	15-6	15-9
375.00	15-10	16-1	16-4	16-7	16-10	17-1	17-4	17-7	17-10	18-1

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-7	2-7	2-8	2-8	2-9	2-9	2-10	2-10	2-10	2-11
175.00	3-6	3-6	3-7	3-8	3-9	3-9	3-10	3-10	3-11	3-11
200.00	4-7	4-8	4-8	4-9	4-10	4-11	5-0	5-0	5-1	5-2
225.00	5-9	5-10	5-11	6-1	6-2	6-3	6-4	6-5	6-5	6-6
250.00	7-1	7-3	7-4	7-6	7-7	7-8	7-10	7-10	7-11	8-0
275.00	8-7	8-9	8-11	9-0	9-2	9-4	9-5	9-6	9-7	9-8
300.00	10-3	10-5	10-7	10-9	10-11	11-1	11-3	11-4	11-5	11-7
325.00	12-0	12-3	12-5	12-7	12-10	13-0	13-2	13-4	13-5	13-7
350.00	13-11	14-2	14-5	14-8	14-10	15-1	15-4	15-5	15-7	15-9
375.00	16-0	16-3	16-7	16-10	17-1	17-4	17-7	17-9	17-11	18-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 341 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.341
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-8	4-9	4-9	4-10	4-10	4-10	4-11	4-11	5-0	5-0
225.00	5-11	6-0	6-0	6-1	6-1	6-2	6-3	6-3	6-4	6-4
250.00	7-4	7-4	7-5	7-6	7-7	7-7	7-8	7-9	7-10	7-10
275.00	8-10	8-11	9-0	9-1	9-2	9-3	9-4	9-4	9-5	9-6
300.00	10-6	10-7	10-8	10-10	10-11	11-0	11-1	11-2	11-3	11-4
325.00	12-4	12-6	12-7	12-8	12-9	12-11	13-0	13-1	13-2	13-4
350.00	14-4	14-5	14-7	14-8	14-10	14-11	15-1	15-2	15-4	15-5
375.00	16-5	16-7	16-9	16-11	17-0	17-2	17-4	17-5	17-7	17-9
400.00	18-9	18-11	19-1	19-3	19-5	19-7	19-8	19-10	20-0	20-2
425.00	21-2	21-4	21-6	21-9	21-11	22-1	22-3	22-5	22-7	22-9
450.00	23-9	23-11	24-2	24-4	24-7	24-9	25-0	25-2	25-4	25-7
475.00	26-5	26-8	26-11	27-2	27-4	27-7	27-10	28-1	28-3	28-6
500.00	29-4	29-7	29-10	30-1	30-4	30-7	30-10	31-1	31-4	31-7

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-8	4-9	4-9	4-10	4-10	4-11	4-11	5-0	5-0	5-0
225.00	5-11	6-0	6-1	6-1	6-2	6-3	6-3	6-4	6-4	6-4
250.00	7-4	7-5	7-6	7-7	7-7	7-8	7-9	7-9	7-10	7-10
275.00	8-11	9-0	9-1	9-2	9-3	9-4	9-4	9-5	9-6	9-6
300.00	10-7	10-8	10-9	10-11	11-0	11-1	11-2	11-3	11-3	11-4
325.00	12-5	12-7	12-8	12-9	12-11	13-0	13-1	13-2	13-3	13-4
350.00	14-5	14-7	14-8	14-10	14-11	15-1	15-2	15-3	15-4	15-5
375.00	16-7	16-9	16-10	17-0	17-2	17-4	17-5	17-7	17-8	17-9
400.00	18-10	19-0	19-2	19-4	19-6	19-8	19-10	20-0	20-1	20-2
425.00	21-4	21-6	21-8	21-11	22-1	22-3	22-5	22-7	22-8	22-10
450.00	23-11	24-1	24-4	24-6	24-9	24-11	25-2	25-4	25-5	25-7
475.00	26-8	26-11	27-1	27-4	27-7	27-10	28-1	28-2	28-4	28-6
500.00	29-6	29-10	30-1	30-4	30-7	30-10	31-1	31-3	31-5	31-7

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 342 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.342
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2000 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	1.941	3.89	2500	3.89	2500*
0	0	0	0	0.44	2.24	983	2.04	1079
30	0	0	0	0.44	2.96	743	2.72	809
40	0	0	0	0.44	3.19	691	2.94	749
50	0	0	0	0.44	3.4	648	3.15	698
60	0	0	0	0.44	3.61	611	3.36	656
70	0	0	0	0.44	3.81	579	3.56	619
80	0	0	0	0.44	4	551	3.75	587
90	0	0	0	0.44	4.13	533	3.94	560
100	0	0	0	0.44	4.24	520	4.12	535
110	0	0	0	0.44	4.35	507	4.29	514
120	0	0	0	0.44	4.46	494	4.46	494
130	0	0	0	0.44	4.56	483	4.56	483
167	0	0	0	0.44	4.94	447	4.94	447
212	0	0	0	0.44	5.37	411	5.37	411

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>344 OF 359</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH810.344</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING</p> <p>336.4 - 26/7 ACSR/AW TENSION 2500 LBS</p> </div>						

Span = 400 ft								
Design Condition					Final		Initial	
Cond. ° F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	1.941	15.62	2500	15.62	2500*
0	0	0	0	0.44	14.04	630	13.81	640
30	0	0	0	0.44	14.69	602	14.45	612
40	0	0	0	0.44	14.91	594	14.66	603
50	0	0	0	0.44	15.12	585	14.87	595
60	0	0	0	0.44	15.33	577	15.07	587
70	0	0	0	0.44	15.53	570	15.27	579
80	0	0	0	0.44	15.74	563	15.47	572
90	0	0	0	0.44	15.91	557	15.67	565
100	0	0	0	0.44	16.04	552	15.87	558
110	0	0	0	0.44	16.16	548	16.06	551
120	0	0	0	0.44	16.29	544	16.25	545
130	0	0	0	0.44	16.42	539	16.42	539
167	0	0	0	0.44	16.88	525	16.88	525
212	0	0	0	0.44	17.43	509	17.43	509
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>345 OF 359</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH810.345
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	1.941	24.49	2500	24.49	2500*
0	0	0	0	0.44	22.92	605	22.7	611
30	0	0	0	0.44	23.57	589	23.33	595
40	0	0	0	0.44	23.78	583	23.53	589
50	0	0	0	0.44	23.99	578	23.74	584
60	0	0	0	0.44	24.2	574	23.94	580
70	0	0	0	0.44	24.4	569	24.14	575
80	0	0	0	0.44	24.61	564	24.34	570
90	0	0	0	0.44	24.78	560	24.54	566
100	0	0	0	0.44	24.92	557	24.74	561
110	0	0	0	0.44	25.05	554	24.94	557
120	0	0	0	0.44	25.18	552	25.13	553
130	0	0	0	0.44	25.31	549	25.31	549
167	0	0	0	0.44	25.79	539	25.79	539
212	0	0	0	0.44	26.36	527	26.36	527

* Design Condition

* Design Condition

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Completely Revised



New Page

Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
336.4 - 26/7 ACSR/AW TENSION 2500 LBS

OH810.346

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9
100.00	0-3	0-4	0-5	0-6	0-7	0-9	0-10	1-0	1-2	1-3
125.00	0-5	0-6	0-7	0-9	0-11	1-1	1-4	1-7	1-10	2-0
150.00	0-8	0-9	0-11	1-1	1-4	1-7	1-11	2-3	2-7	2-11
175.00	0-11	1-0	1-3	1-6	1-10	2-2	2-8	3-1	3-6	3-11
200.00	1-2	1-4	1-7	1-11	2-4	2-11	3-5	4-1	4-7	5-2

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-8	0-9
100.00	0-4	0-5	0-6	0-7	0-9	0-11	1-1	1-2	1-3	1-3
125.00	0-6	0-7	0-9	0-11	1-2	1-5	1-8	1-9	1-11	2-0
150.00	0-8	0-10	1-1	1-4	1-8	2-0	2-5	2-7	2-9	2-11
175.00	1-0	1-2	1-6	1-10	2-4	2-9	3-3	3-6	3-8	3-11
200.00	1-3	1-6	1-11	2-5	3-0	3-7	4-3	4-6	4-10	5-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 347 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH810.347
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1
125.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-6	1-7	1-8
150.00	1-5	1-6	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-5
175.00	1-11	2-1	2-3	2-5	2-7	2-9	2-10	3-0	3-2	3-3
200.00	2-6	2-9	2-11	3-2	3-4	3-7	3-9	3-11	4-1	4-3
225.00	3-2	3-5	3-9	4-0	4-3	4-6	4-9	5-0	5-3	5-5
250.00	3-11	4-3	4-7	4-11	5-3	5-7	5-10	6-2	6-5	6-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-1
125.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-8
150.00	1-6	1-8	1-10	1-11	2-0	2-2	2-3	2-4	2-5	2-5
175.00	2-1	2-3	2-5	2-7	2-9	2-11	3-1	3-2	3-3	3-4
200.00	2-9	3-0	3-2	3-5	3-7	3-10	4-0	4-2	4-3	4-4
225.00	3-5	3-9	4-0	4-4	4-7	4-10	5-1	5-3	5-4	5-6
250.00	4-3	4-8	5-0	5-4	5-8	5-11	6-3	6-6	6-8	6-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> SHEET 348 OF 359 </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH810.348
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-10	1-11	1-11	2-0	2-1	2-1	2-2	2-2	2-3	2-4
175.00	2-6	2-7	2-8	2-9	2-10	2-10	2-11	3-0	3-1	3-2
200.00	3-3	3-4	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1
225.00	4-2	4-3	4-5	4-6	4-7	4-9	4-10	4-11	5-1	5-2
250.00	5-1	5-3	5-5	5-7	5-8	5-10	6-0	6-1	6-3	6-5
275.00	6-2	6-5	6-7	6-9	6-11	7-1	7-3	7-5	7-7	7-9
300.00	7-4	7-7	7-10	8-0	8-3	8-5	8-7	8-10	9-0	9-2
325.00	8-8	8-11	9-2	9-5	9-8	9-11	10-1	10-4	10-7	10-10
350.00	10-0	10-4	10-7	10-11	11-2	11-6	11-9	12-0	12-3	12-6
375.00	11-6	11-10	12-2	12-6	12-10	13-2	13-6	13-9	14-1	14-5

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-11	1-11	2-0	2-1	2-1	2-2	2-3	2-3	2-3	2-4
175.00	2-7	2-8	2-9	2-10	2-11	2-11	3-0	3-1	3-1	3-2
200.00	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-1
225.00	4-3	4-5	4-6	4-8	4-9	4-11	5-0	5-1	5-2	5-3
250.00	5-3	5-5	5-7	5-9	5-11	6-0	6-2	6-3	6-4	6-5
275.00	6-5	6-7	6-9	6-11	7-1	7-3	7-5	7-7	7-8	7-10
300.00	7-7	7-10	8-1	8-3	8-6	8-8	8-11	9-0	9-2	9-3
325.00	8-11	9-2	9-5	9-8	9-11	10-2	10-5	10-7	10-9	10-11
350.00	10-4	10-8	11-0	11-3	11-6	11-10	12-1	12-4	12-6	12-8
375.00	11-11	12-3	12-7	12-11	13-3	13-7	13-11	14-2	14-4	14-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 349 OF 359	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH810.349
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-7	3-7	3-8	3-9	3-9	3-10	3-10	3-11	4-0	4-0
225.00	4-6	4-7	4-8	4-8	4-9	4-10	4-11	4-11	5-0	5-1
250.00	5-7	5-8	5-9	5-10	5-11	6-0	6-0	6-1	6-2	6-3
275.00	6-9	6-10	6-11	7-0	7-1	7-3	7-4	7-5	7-6	7-7
300.00	8-0	8-1	8-3	8-4	8-6	8-7	8-8	8-10	8-11	9-0
325.00	9-5	9-6	9-8	9-10	9-11	10-1	10-3	10-4	10-6	10-7
350.00	10-11	11-1	11-3	11-5	11-6	11-8	11-10	12-0	12-2	12-3
375.00	12-6	12-8	12-11	13-1	13-3	13-5	13-7	13-9	13-11	14-1
400.00	14-3	14-5	14-8	14-10	15-1	15-3	15-6	15-8	15-10	16-1
425.00	16-1	16-4	16-7	16-9	17-0	17-3	17-6	17-8	17-11	18-2
450.00	18-0	18-4	18-7	18-10	19-1	19-4	19-7	19-10	20-1	20-4
475.00	20-1	20-5	20-8	21-0	21-3	21-7	21-10	22-1	22-5	22-8
500.00	22-3	22-7	22-11	23-3	23-7	23-11	24-2	24-6	24-10	25-2

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-7	3-8	3-9	3-9	3-10	3-11	3-11	4-0	4-0	4-0
225.00	4-7	4-8	4-9	4-9	4-10	4-11	5-0	5-0	5-1	5-1
250.00	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-2	6-3	6-4
275.00	6-10	6-11	7-0	7-2	7-3	7-4	7-5	7-6	7-7	7-8
300.00	8-2	8-3	8-5	8-6	8-7	8-9	8-10	8-11	9-0	9-1
325.00	9-7	9-8	9-10	10-0	10-1	10-3	10-5	10-6	10-7	10-8
350.00	11-1	11-3	11-5	11-7	11-9	11-11	12-1	12-2	12-3	12-4
375.00	12-9	12-11	13-1	13-3	13-6	13-8	13-10	14-0	14-1	14-2
400.00	14-6	14-8	14-11	15-1	15-4	15-6	15-9	15-11	16-0	16-2
425.00	16-4	16-7	16-10	17-1	17-4	17-6	17-9	18-0	18-1	18-3
450.00	18-4	18-7	18-11	19-2	19-5	19-8	19-11	20-2	20-4	20-6
475.00	20-5	20-9	21-0	21-4	21-8	21-11	22-3	22-5	22-8	22-10
500.00	22-8	23-0	23-4	23-8	24-0	24-4	24-7	24-11	25-1	25-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 350 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.350
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 2500 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>352 OF 359</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH810.352
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	1.941	12.99	3000	12.99	3000*
0	0	0	0	0.44	10.78	819	10.41	848
30	0	0	0	0.44	11.6	761	11.21	787
40	0	0	0	0.44	11.87	744	11.47	770
50	0	0	0	0.44	12.12	729	11.73	753
60	0	0	0	0.44	12.38	714	11.98	737
70	0	0	0	0.44	12.63	700	12.22	723
80	0	0	0	0.44	12.87	687	12.47	709
90	0	0	0	0.44	13.11	674	12.71	695
100	0	0	0	0.44	13.27	666	12.94	683
110	0	0	0	0.44	13.42	659	13.17	671
120	0	0	0	0.44	13.56	652	13.4	660
130	0	0	0	0.44	13.71	645	13.63	649
167	0	0	0	0.44	14.24	621	14.24	621
212	0	0	0	0.44	14.87	595	14.87	595
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>353 OF 359</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.353
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	1.941	20.35	3000	20.35	3000*
0	0	0	0	0.44	18.17	761	17.8	776
30	0	0	0	0.44	18.96	729	18.58	744
40	0	0	0	0.44	19.22	720	18.83	734
50	0	0	0	0.44	19.48	710	19.08	725
60	0	0	0	0.44	19.73	701	19.33	716
70	0	0	0	0.44	19.98	693	19.58	707
80	0	0	0	0.44	20.22	684	19.82	698
90	0	0	0	0.44	20.47	676	20.06	690
100	0	0	0	0.44	20.63	671	20.3	682
110	0	0	0	0.44	20.79	666	20.53	674
120	0	0	0	0.44	20.94	661	20.77	667
130	0	0	0	0.44	21.09	656	21	659
167	0	0	0	0.44	21.65	640	21.65	640
212	0	0	0	0.44	22.32	621	22.32	621

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>354 OF 359</p> </div>	Indicates Latest Revision	Completely Revised	<div style="border: 1px solid black; padding: 2px;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH810.354</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-2	0-3	0-4	0-4	0-5	0-6
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-8	0-9	0-11
125.00	0-4	0-4	0-5	0-6	0-7	0-8	0-10	1-0	1-3	1-5
150.00	0-6	0-6	0-7	0-8	0-10	1-0	1-2	1-5	1-9	2-1
175.00	0-8	0-9	0-10	0-11	1-1	1-4	1-7	2-0	2-5	2-10
200.00	0-10	0-11	1-1	1-3	1-5	1-9	2-1	2-7	3-1	3-8

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-6	0-7
100.00	0-3	0-3	0-4	0-5	0-6	0-8	0-9	0-10	0-11	1-0
125.00	0-4	0-5	0-6	0-7	0-9	1-0	1-3	1-4	1-6	1-7
150.00	0-6	0-7	0-9	0-11	1-1	1-5	1-9	1-11	2-1	2-3
175.00	0-9	0-10	1-0	1-3	1-6	1-11	2-5	2-8	2-10	3-1
200.00	0-11	1-1	1-4	1-7	2-0	2-6	3-1	3-6	3-9	4-0

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
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B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 355 OF 359		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH810.355
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-10
125.00	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
150.00	0-10	0-11	1-0	1-2	1-4	1-5	1-7	1-8	1-10	1-11
175.00	1-1	1-3	1-5	1-7	1-9	1-11	2-1	2-3	2-5	2-7
200.00	1-5	1-8	1-10	2-1	2-4	2-6	2-9	3-0	3-2	3-5
225.00	1-10	2-1	2-4	2-8	2-11	3-2	3-6	3-9	4-0	4-4
250.00	2-3	2-7	2-11	3-3	3-7	4-0	4-4	4-8	5-0	5-4

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-10	0-11
125.00	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-4	1-4	1-5
150.00	0-11	1-1	1-3	1-4	1-6	1-8	1-9	1-11	1-11	2-0
175.00	1-3	1-6	1-8	1-10	2-0	2-3	2-5	2-7	2-8	2-9
200.00	1-8	1-11	2-2	2-5	2-8	2-11	3-2	3-4	3-5	3-7
225.00	2-2	2-5	2-9	3-1	3-4	3-8	3-11	4-3	4-4	4-6
250.00	2-8	3-0	3-5	3-9	4-2	4-6	4-11	5-3	5-5	5-7

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>356 OF 359</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH810.356
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING 336.4 - 26/7 ACSR/AW TENSION 3000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-4	1-5	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-10
175.00	1-9	1-10	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-6
200.00	2-4	2-5	2-7	2-8	2-10	2-11	3-0	3-1	3-3	3-4
225.00	2-11	3-1	3-3	3-5	3-6	3-8	3-10	3-11	4-1	4-2
250.00	3-8	3-10	4-0	4-2	4-4	4-6	4-8	4-10	5-0	5-2
275.00	4-5	4-8	4-10	5-1	5-3	5-6	5-8	5-11	6-1	6-3
300.00	5-3	5-6	5-9	6-0	6-3	6-6	6-9	7-0	7-3	7-6
325.00	6-2	6-6	6-9	7-1	7-5	7-8	8-0	8-3	8-6	8-9
350.00	7-2	7-6	7-10	8-3	8-7	8-11	9-3	9-7	9-10	10-2
375.00	8-2	8-7	9-0	9-5	9-10	10-3	10-7	11-0	11-4	11-8

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-5	1-6	1-7	1-7	1-8	1-9	1-10	1-10	1-11	1-11
175.00	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-7
200.00	2-6	2-7	2-9	2-10	3-0	3-1	3-2	3-3	3-4	3-5
225.00	3-2	3-4	3-6	3-7	3-9	3-11	4-0	4-2	4-3	4-4
250.00	3-11	4-1	4-3	4-6	4-8	4-10	5-0	5-2	5-3	5-4
275.00	4-9	5-0	5-2	5-5	5-7	5-10	6-0	6-3	6-4	6-6
300.00	5-7	5-11	6-2	6-5	6-8	6-11	7-2	7-5	7-7	7-8
325.00	6-7	6-11	7-3	7-7	7-10	8-2	8-5	8-8	8-10	9-0
350.00	7-8	8-0	8-5	8-9	9-1	9-5	9-9	10-1	10-3	10-6
375.00	8-9	9-3	9-8	10-1	10-5	10-10	11-3	11-7	11-10	12-0

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Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-9	2-10	2-10	2-11	3-0	3-1	3-1	3-2	3-3	3-3
225.00	3-6	3-7	3-8	3-8	3-9	3-10	3-11	4-0	4-1	4-2
250.00	4-3	4-5	4-6	4-7	4-8	4-9	4-10	5-0	5-1	5-2
275.00	5-2	5-4	5-5	5-6	5-8	5-9	5-11	6-0	6-1	6-3
300.00	6-2	6-4	6-5	6-7	6-9	6-10	7-0	7-2	7-3	7-5
325.00	7-3	7-5	7-7	7-9	7-11	8-1	8-3	8-5	8-6	8-8
350.00	8-5	8-7	8-9	9-0	9-2	9-4	9-7	9-9	9-11	10-1
375.00	9-7	9-10	10-1	10-4	10-6	10-9	10-11	11-2	11-4	11-7
400.00	10-11	11-3	11-6	11-9	12-0	12-3	12-6	12-8	12-11	13-2
425.00	12-4	12-8	12-11	13-3	13-6	13-10	14-1	14-4	14-7	14-10
450.00	13-10	14-2	14-6	14-10	15-2	15-6	15-9	16-1	16-5	16-8
475.00	15-5	15-10	16-2	16-7	16-11	17-3	17-7	17-11	18-3	18-7
500.00	17-1	17-6	17-11	18-4	18-9	19-1	19-6	19-10	20-3	20-7

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-3	3-4	3-4
225.00	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-2	4-3
250.00	4-5	4-6	4-8	4-9	4-10	4-11	5-0	5-1	5-2	5-3
275.00	5-4	5-6	5-7	5-9	5-10	6-0	6-1	6-2	6-3	6-4
300.00	6-4	6-6	6-8	6-10	6-11	7-1	7-3	7-4	7-5	7-6
325.00	7-6	7-8	7-10	8-0	8-2	8-4	8-6	8-8	8-9	8-10
350.00	8-8	8-11	9-1	9-3	9-6	9-8	9-10	10-0	10-2	10-3
375.00	10-0	10-2	10-5	10-8	10-11	11-1	11-4	11-6	11-8	11-9
400.00	11-4	11-7	11-10	12-1	12-5	12-8	12-10	13-1	13-3	13-5
425.00	12-10	13-1	13-5	13-8	14-0	14-3	14-6	14-10	15-0	15-2
450.00	14-4	14-8	15-0	15-4	15-8	16-0	16-4	16-7	16-10	17-0
475.00	16-0	16-4	16-9	17-1	17-6	17-10	18-2	18-6	18-9	18-11
500.00	17-9	18-2	18-7	18-11	19-4	19-9	20-1	20-6	20-9	21-0

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[illegible]

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

1000 LB TENSION -----	811.3
1500 LB TENSION -----	811.11
2000 LB TENSION -----	811.19
2500 LB TENSION -----	811.27
3000 LB TENSION -----	811.35

1000 LB TENSION -----	811.43
1500 LB TENSION -----	811.51
2000 LB TENSION -----	811.59
2500 LB TENSION -----	811.67
3000 LB TENSION -----	811.75

1000 LB TENSION -----	811.83
1500 LB TENSION -----	811.89
2000 LB TENSION -----	811.97
2500 LB TENSION -----	811.105
3000 LB TENSION -----	811.113

1000 LB TENSION -----	811.121
1500 LB TENSION -----	811.129
2000 LB TENSION -----	811.137
2500 LB TENSION -----	811.145
3000 LB TENSION -----	811.153

1000 LB TENSION -----	811.161
1500 LB TENSION -----	811.169
2000 LB TENSION -----	811.177
2500 LB TENSION -----	811.185
3000 LB TENSION -----	811.193

1000 LB TENSION -----	811.201
1500 LB TENSION -----	811.209
2000 LB TENSION -----	811.217
2500 LB TENSION -----	811.225
3000 LB TENSION -----	811.233

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OH811.1

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

1000 LB TENSION -----	811.241
1500 LB TENSION -----	811.249
2000 LB TENSION -----	811.257
2500 LB TENSION -----	811.265
3000 LB TENSION -----	811.273

1000 LB TENSION -----	811.281
1500 LB TENSION -----	811.289
2000 LB TENSION -----	811.297
2500 LB TENSION -----	811.305
3000 LB TENSION -----	811.313

1000 LB TENSION -----	811.321
1500 LB TENSION -----	811.329
2000 LB TENSION -----	811.337
2500 LB TENSION -----	811.345
3000 LB TENSION -----	811.353

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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OH811.2

Span =		200 ft						
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.737	3.76	980	3.69	1000*
25	0	0	0	0.52	3.63	718	3.53	738
30	0	0	0	0.52	3.73	698	3.63	718
40	0	0	0	0.52	3.92	664	3.81	683
50	0	0	0	0.52	4.11	634	4	651
60	0	0	0	0.52	4.29	607	4.17	624
70	0	0	0	0.52	4.46	584	4.35	599
80	0	0	0	0.52	4.63	563	4.51	577
90	0	0	0	0.52	4.79	544	4.67	557
100	0	0	0	0.52	4.89	533	4.83	539
110	0	0	0	0.52	4.99	522	4.99	523
120	0	0	0	0.52	5.09	512	5.09	512
130	0	0	0	0.52	5.19	502	5.19	502
167	0	0	0	0.52	5.53	471	5.53	471
212	0	0	0	0.52	5.93	440	5.93	440

* Design Condition

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		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.737	14.92	993	14.82	1000*
25	0	0	0	0.52	14.78	708	14.64	714
30	0	0	0	0.52	14.88	703	14.75	709
40	0	0	0	0.52	15.09	693	14.95	699
50	0	0	0	0.52	15.3	684	15.16	690
60	0	0	0	0.52	15.51	675	15.36	681
70	0	0	0	0.52	15.71	666	15.56	673
80	0	0	0	0.52	15.91	658	15.75	664
90	0	0	0	0.52	16.11	650	15.95	656
100	0	0	0	0.52	16.3	642	16.14	649
110	0	0	0	0.52	16.43	637	16.33	641
120	0	0	0	0.52	16.55	633	16.52	634
130	0	0	0	0.52	16.68	628	16.68	628
167	0	0	0	0.52	17.14	611	17.14	611
212	0	0	0	0.52	17.68	593	17.68	593

* Design Condition

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		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS									

Span =		500 ft						
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.737	23.34	995	23.22	1000*
25	0	0	0	0.52	23.19	707	23.05	711
30	0	0	0	0.52	23.29	704	23.15	708
40	0	0	0	0.52	23.51	697	23.36	702
50	0	0	0	0.52	23.72	691	23.57	696
60	0	0	0	0.52	23.93	685	23.77	690
70	0	0	0	0.52	24.14	679	23.98	684
80	0	0	0	0.52	24.35	674	24.18	678
90	0	0	0	0.52	24.55	668	24.38	673
100	0	0	0	0.52	24.75	663	24.58	668
110	0	0	0	0.52	24.89	659	24.78	662
120	0	0	0	0.52	25.02	656	24.97	657
130	0	0	0	0.52	25.16	652	25.16	652
167	0	0	0	0.52	25.64	640	25.64	640
212	0	0	0	0.52	26.21	627	26.21	627
* Design Condition								

* Design Condition

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		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-0
100.00	0-9	0-10	1-0	1-2	1-4	1-5	1-6	1-8	1-9	1-10
125.00	1-2	1-4	1-7	1-10	2-0	2-3	2-5	2-7	2-9	2-10
150.00	1-8	2-0	2-3	2-7	2-11	3-2	3-6	3-9	3-11	4-1
175.00	2-3	2-8	3-1	3-7	4-0	4-4	4-9	5-1	5-4	5-7
200.00	2-11	3-6	4-1	4-8	5-2	5-8	6-2	6-7	7-0	7-3

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-0
100.00	0-9	0-11	1-1	1-3	1-4	1-6	1-7	1-8	1-9	1-10
125.00	1-2	1-5	1-8	1-11	2-1	2-4	2-6	2-7	2-9	2-10
150.00	1-9	2-1	2-5	2-9	3-1	3-4	3-7	3-9	3-11	4-1
175.00	2-4	2-10	3-3	3-9	4-2	4-7	4-11	5-1	5-4	5-7
200.00	3-1	3-8	4-3	4-10	5-5	5-11	6-5	6-8	7-0	7-3

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	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-2	1-2	1-3
125.00	1-4	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-11	1-11
150.00	1-11	2-0	2-2	2-3	2-4	2-5	2-6	2-8	2-9	2-10
175.00	2-8	2-9	2-11	3-1	3-2	3-4	3-5	3-7	3-8	3-10
200.00	3-5	3-8	3-10	4-0	4-2	4-4	4-6	4-8	4-10	5-0
225.00	4-4	4-7	4-10	5-1	5-3	5-6	5-9	5-11	6-1	6-4
250.00	5-4	5-8	6-0	6-3	6-6	6-10	7-1	7-4	7-7	7-10

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3
125.00	1-5	1-5	1-6	1-7	1-8	1-9	1-10	1-10	1-11	1-11
150.00	2-0	2-1	2-2	2-4	2-5	2-6	2-7	2-8	2-9	2-10
175.00	2-8	2-10	3-0	3-2	3-3	3-5	3-7	3-8	3-9	3-10
200.00	3-6	3-9	3-11	4-1	4-3	4-6	4-8	4-10	4-11	5-0
225.00	4-6	4-9	5-0	5-2	5-5	5-8	5-10	6-1	6-2	6-4
250.00	5-6	5-10	6-2	6-5	6-8	7-0	7-3	7-6	7-8	7-10

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	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span: 300.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-0	2-1	2-1	2-2	2-2	2-3	2-4	2-4	2-5	2-5
175.00	2-9	2-10	2-10	2-11	3-0	3-1	3-2	3-2	3-3	3-4
200.00	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4
225.00	4-6	4-8	4-9	4-10	5-0	5-1	5-2	5-3	5-5	5-6
250.00	5-7	5-9	5-10	6-0	6-2	6-3	6-5	6-6	6-8	6-9
275.00	6-9	6-11	7-1	7-3	7-5	7-7	7-9	7-11	8-1	8-2
300.00	8-1	8-3	8-5	8-8	8-10	9-0	9-3	9-5	9-7	9-9
325.00	9-5	9-8	9-11	10-2	10-5	10-7	10-10	11-0	11-3	11-5
350.00	10-11	11-3	11-6	11-9	12-0	12-4	12-7	12-10	13-1	13-3
375.00	12-7	12-11	13-3	13-6	13-10	14-1	14-5	14-8	15-0	15-3

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-0	2-1	2-2	2-2	2-3	2-3	2-4	2-5	2-5	2-5
175.00	2-9	2-10	2-11	3-0	3-1	3-1	3-2	3-3	3-4	3-4
200.00	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-4
225.00	4-7	4-8	4-10	4-11	5-1	5-2	5-3	5-4	5-5	5-6
250.00	5-8	5-10	5-11	6-1	6-3	6-4	6-6	6-8	6-9	6-10
275.00	6-10	7-0	7-2	7-5	7-7	7-8	7-10	8-0	8-2	8-3
300.00	8-2	8-4	8-7	8-9	9-0	9-2	9-4	9-7	9-8	9-10
325.00	9-7	9-10	10-1	10-4	10-6	10-9	11-0	11-3	11-5	11-6
350.00	11-1	11-5	11-8	11-11	12-3	12-6	12-9	13-0	13-3	13-4
375.00	12-9	13-1	13-5	13-9	14-0	14-4	14-8	14-11	15-2	15-4

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		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-8	3-8	3-9	3-9	3-10	3-11	3-11	4-0	4-0	4-1
225.00	4-7	4-8	4-9	4-9	4-10	4-11	5-0	5-0	5-1	5-2
250.00	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-4
275.00	6-10	7-0	7-1	7-2	7-3	7-4	7-5	7-6	7-7	7-9
300.00	8-2	8-3	8-5	8-6	8-8	8-9	8-10	9-0	9-1	9-2
325.00	9-7	9-9	9-10	10-0	10-2	10-3	10-5	10-6	10-8	10-9
350.00	11-2	11-3	11-5	11-7	11-9	11-11	12-1	12-2	12-4	12-6
375.00	12-9	13-0	13-2	13-4	13-6	13-8	13-10	14-0	14-2	14-4
400.00	14-6	14-9	14-11	15-2	15-4	15-7	15-9	15-11	16-2	16-4
425.00	16-5	16-8	16-11	17-1	17-4	17-7	17-9	18-0	18-3	18-5
450.00	18-5	18-8	18-11	19-2	19-5	19-8	19-11	20-2	20-5	20-8
475.00	20-6	20-10	21-1	21-5	21-8	21-11	22-3	22-6	22-9	23-1
500.00	22-9	23-1	23-5	23-9	24-0	24-4	24-8	24-11	25-3	25-7

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-8	3-9	3-9	3-10	3-10	3-11	4-0	4-0	4-1	4-1
225.00	4-8	4-8	4-9	4-10	4-11	5-0	5-0	5-1	5-2	5-2
250.00	5-9	5-10	5-11	6-0	6-1	6-2	6-2	6-3	6-4	6-5
275.00	6-11	7-0	7-2	7-3	7-4	7-5	7-6	7-7	7-8	7-9
300.00	8-3	8-4	8-6	8-7	8-9	8-10	8-11	9-1	9-2	9-3
325.00	9-8	9-10	9-11	10-1	10-3	10-4	10-6	10-8	10-9	10-10
350.00	11-3	11-5	11-7	11-9	11-10	12-0	12-2	12-4	12-6	12-7
375.00	12-11	13-1	13-3	13-5	13-8	13-10	14-0	14-2	14-4	14-5
400.00	14-8	14-11	15-1	15-4	15-6	15-9	15-11	16-1	16-4	16-5
425.00	16-7	16-10	17-1	17-3	17-6	17-9	18-0	18-2	18-5	18-7
450.00	18-7	18-10	19-1	19-5	19-8	19-11	20-2	20-5	20-8	20-10
475.00	20-8	21-0	21-4	21-7	21-11	22-2	22-6	22-9	23-0	23-2
500.00	22-11	23-3	23-7	23-11	24-3	24-7	24-11	25-2	25-6	25-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>9 OF 360</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.9
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.737	3.76	980	3.69	1000*
25	0	0	0	0.52	3.63	718	3.53	738
30	0	0	0	0.52	3.73	698	3.63	718
40	0	0	0	0.52	3.92	664	3.81	683
50	0	0	0	0.52	4.11	634	4	651
60	0	0	0	0.52	4.29	607	4.17	624
70	0	0	0	0.52	4.46	584	4.35	599
80	0	0	0	0.52	4.63	563	4.51	577
90	0	0	0	0.52	4.79	544	4.67	557
100	0	0	0	0.52	4.89	533	4.83	539
110	0	0	0	0.52	4.99	522	4.99	523
120	0	0	0	0.52	5.09	512	5.09	512
130	0	0	0	0.52	5.19	502	5.19	502
167	0	0	0	0.52	5.53	471	5.53	471
212	0	0	0	0.52	5.93	440	5.93	440

* Design Condition

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 11 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.11
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0- 3	0- 4	0- 4	0- 5	0- 6	0- 7	0- 8	0- 9	0-10	0-10
100.00	0- 5	0- 6	0- 8	0- 9	0-11	1- 1	1- 3	1- 4	1- 6	1- 7
125.00	0- 8	0-10	1- 0	1- 3	1- 5	1- 8	1-11	2- 1	2- 3	2- 5
150.00	1- 0	1- 2	1- 5	1- 9	2- 1	2- 5	2- 9	3- 0	3- 4	3- 6
175.00	1- 4	1- 7	2- 0	2- 5	2-10	3- 3	3- 8	4- 1	4- 6	4- 9
200.00	1- 9	2- 1	2- 7	3- 1	3- 8	4- 3	4-10	5- 4	5-10	6- 2

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0- 3	0- 4	0- 5	0- 6	0- 7	0- 8	0- 9	0- 9	0-10	0-10
100.00	0- 5	0- 7	0- 9	0-10	1- 0	1- 2	1- 4	1- 5	1- 6	1- 7
125.00	0- 9	0-11	1- 1	1- 4	1- 7	1-10	2- 1	2- 2	2- 4	2- 5
150.00	1- 0	1- 3	1- 7	2- 0	2- 4	2- 8	2-11	3- 2	3- 4	3- 6
175.00	1- 5	1- 9	2- 2	2- 8	3- 2	3- 7	4- 0	4- 3	4- 6	4- 9
200.00	1-10	2- 3	2-10	3- 6	4- 1	4- 8	5- 3	5- 7	5-11	6- 2

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div>SHEET</div> <div>14 OF 360</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.14
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0- 6	0- 7	0- 8	0- 8	0- 9	0-10	0-10	0-11	0-11	1- 0
125.00	0-10	0-11	1- 0	1- 1	1- 2	1- 3	1- 4	1- 5	1- 6	1- 7
150.00	1- 2	1- 3	1- 5	1- 6	1- 8	1- 9	1-11	2- 0	2- 1	2- 3
175.00	1- 7	1- 9	1-11	2- 1	2- 3	2- 5	2- 7	2- 9	2-11	3- 0
200.00	2- 1	2- 3	2- 6	2- 9	2-11	3- 2	3- 4	3- 7	3- 9	3-11
225.00	2- 7	2-11	3- 2	3- 6	3- 9	4- 0	4- 3	4- 6	4- 9	5- 0
250.00	3- 2	3- 7	3-11	4- 3	4- 7	4-11	5- 3	5- 7	5-11	6- 2

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0- 7	0- 7	0- 8	0- 9	0- 9	0-10	0-11	0-11	1- 0	1- 0
125.00	0-10	1- 0	1- 1	1- 2	1- 3	1- 4	1- 5	1- 6	1- 6	1- 7
150.00	1- 3	1- 5	1- 6	1- 8	1- 9	1-11	2- 0	2- 2	2- 3	2- 3
175.00	1- 8	1-11	2- 1	2- 3	2- 5	2- 7	2- 9	2-11	3- 0	3- 1
200.00	2- 3	2- 6	2- 8	2-11	3- 2	3- 5	3- 7	3- 9	3-11	4- 1
225.00	2-10	3- 1	3- 5	3- 9	4- 0	4- 3	4- 6	4- 9	5- 0	5- 1
250.00	3- 6	3-10	4- 3	4- 7	4-11	5- 3	5- 7	5-11	6- 2	6- 4

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>15 OF 360</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH811.15</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 1500 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1- 3	1- 4	1- 5	1- 6	1- 6	1- 7	1- 8	1- 9	1- 9	1-10
175.00	1- 9	1-10	1-11	2- 0	2- 1	2- 2	2- 3	2- 4	2- 5	2- 6
200.00	2- 3	2- 4	2- 6	2- 7	2- 9	2-10	2-11	3- 1	3- 2	3- 3
225.00	2-10	3- 0	3- 2	3- 4	3- 5	3- 7	3- 9	3-10	4- 0	4- 1
250.00	3- 6	3- 8	3-11	4- 1	4- 3	4- 5	4- 7	4- 9	4-11	5- 1
275.00	4- 3	4- 6	4- 8	4-11	5- 2	5- 4	5- 7	5- 9	5-11	6- 2
300.00	5- 1	5- 4	5- 7	5-10	6- 1	6- 4	6- 7	6-10	7- 1	7- 4
325.00	5-11	6- 3	6- 7	6-11	7- 2	7- 6	7- 9	8- 1	8- 4	8- 7
350.00	6-10	7- 3	7- 7	8- 0	8- 4	8- 8	9- 0	9- 4	9- 8	10- 0
375.00	7-11	8- 4	8- 9	9- 2	9- 7	9-11	10- 4	10- 9	11- 1	11- 5

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1- 4	1- 5	1- 6	1- 6	1- 7	1- 8	1- 9	1- 9	1-10	1-11
175.00	1-10	1-11	2- 0	2- 1	2- 2	2- 3	2- 4	2- 5	2- 6	2- 7
200.00	2- 4	2- 6	2- 7	2- 9	2-10	2-11	3- 1	3- 2	3- 3	3- 4
225.00	3- 0	3- 2	3- 4	3- 5	3- 7	3- 9	3-11	4- 0	4- 2	4- 3
250.00	3- 8	3-11	4- 1	4- 3	4- 5	4- 7	4-10	5- 0	5- 1	5- 3
275.00	4- 5	4- 8	4-11	5- 2	5- 5	5- 7	5-10	6- 0	6- 2	6- 4
300.00	5- 4	5- 7	5-10	6- 2	6- 5	6- 8	6-11	7- 2	7- 5	7- 7
325.00	6- 3	6- 7	6-11	7- 2	7- 6	7-10	8- 1	8- 5	8- 8	8-10
350.00	7- 3	7- 7	8- 0	8- 4	8- 9	9- 1	9- 5	9- 9	10- 1	10- 3
375.00	8- 3	8- 9	9- 2	9- 7	10- 0	10- 5	10- 9	11- 2	11- 6	11-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 16 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH811.16
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS										

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.737	11.98	1926	11.54	2000*
25	0	0	0	0.52	11.46	1421	10.89	1495
30	0	0	0	0.52	11.66	1397	11.08	1470
40	0	0	0	0.52	12.04	1353	11.45	1422
50	0	0	0	0.52	12.41	1312	11.82	1378
60	0	0	0	0.52	12.78	1275	12.18	1338
70	0	0	0	0.52	13.14	1241	12.53	1300
80	0	0	0	0.52	13.49	1208	12.87	1266
90	0	0	0	0.52	13.83	1179	13.22	1233
100	0	0	0	0.52	14.17	1151	13.55	1203
110	0	0	0	0.52	14.5	1125	13.88	1174
120	0	0	0	0.52	14.82	1100	14.2	1148
130	0	0	0	0.52	15.04	1084	14.52	1123
167	0	0	0	0.52	15.75	1036	15.66	1042
212	0	0	0	0.52	16.59	984	16.58	985
* Design Condition								

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET
21 OF 360

Indicates Latest Revision

Completely Revised



New Page

Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.21

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9
100.00	0-4	0-4	0-5	0-6	0-8	0-10	0-11	1-1	1-3	1-4
125.00	0-6	0-7	0-8	0-10	1-0	1-3	1-6	1-8	1-11	2-1
150.00	0-8	0-10	1-0	1-2	1-6	1-9	2-1	2-5	2-9	3-0
175.00	1-0	1-2	1-4	1-8	2-0	2-5	2-11	3-4	3-9	4-2
200.00	1-3	1-6	1-9	2-2	2-8	3-2	3-9	4-4	4-11	5-5

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-9
100.00	0-4	0-5	0-6	0-8	0-10	0-11	1-1	1-2	1-3	1-4
125.00	0-6	0-8	0-10	1-0	1-3	1-6	1-9	1-10	2-0	2-1
150.00	0-9	0-11	1-2	1-5	1-9	2-2	2-6	2-8	2-10	3-0
175.00	1-0	1-3	1-7	2-0	2-5	2-11	3-4	3-8	3-11	4-2
200.00	1-4	1-7	2-0	2-7	3-2	3-10	4-5	4-9	5-1	5-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>22 OF 360</h2> </div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH811.22	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-9	0-10
125.00	0-7	0-7	0-8	0-9	0-11	1-0	1-1	1-2	1-3	1-4
150.00	0-9	0-11	1-0	1-2	1-3	1-5	1-6	1-8	1-9	1-11
175.00	1-1	1-3	1-4	1-6	1-9	1-11	2-1	2-3	2-5	2-7
200.00	1-5	1-7	1-10	2-0	2-3	2-6	2-8	2-11	3-2	3-4
225.00	1-9	2-0	2-3	2-7	2-10	3-2	3-5	3-8	4-0	4-3
250.00	2-2	2-6	2-10	3-2	3-6	3-10	4-3	4-7	4-11	5-3

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-5	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11
125.00	0-7	0-8	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
150.00	0-11	1-0	1-2	1-3	1-5	1-7	1-8	1-10	1-11	2-0
175.00	1-2	1-4	1-7	1-9	1-11	2-2	2-4	2-6	2-7	2-8
200.00	1-7	1-10	2-0	2-3	2-6	2-9	3-0	3-3	3-5	3-6
225.00	2-0	2-3	2-7	2-11	3-3	3-6	3-10	4-1	4-4	4-6
250.00	2-5	2-10	3-2	3-7	4-0	4-4	4-8	5-1	5-4	5-6

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 23 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.23
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-5	1-6
175.00	1-2	1-3	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-1
200.00	1-7	1-8	1-10	1-11	2-1	2-2	2-4	2-5	2-7	2-8
225.00	2-0	2-2	2-4	2-6	2-8	2-9	2-11	3-1	3-3	3-5
250.00	2-5	2-7	2-10	3-0	3-3	3-5	3-8	3-10	4-0	4-2
275.00	2-11	3-2	3-5	3-8	3-11	4-2	4-5	4-8	4-10	5-1
300.00	3-6	3-9	4-1	4-5	4-8	5-0	5-3	5-6	5-9	6-1
325.00	4-1	4-5	4-9	5-2	5-6	5-10	6-2	6-6	6-10	7-1
350.00	4-9	5-2	5-7	5-11	6-4	6-9	7-2	7-6	7-11	8-3
375.00	5-5	5-11	6-4	6-10	7-4	7-9	8-2	8-7	9-1	9-5

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7
175.00	1-4	1-5	1-6	1-8	1-9	1-10	1-11	2-0	2-1	2-2
200.00	1-8	1-10	2-0	2-2	2-3	2-5	2-6	2-8	2-9	2-10
225.00	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8
250.00	2-8	2-11	3-1	3-4	3-6	3-9	3-11	4-2	4-4	4-6
275.00	3-3	3-6	3-9	4-0	4-3	4-6	4-9	5-0	5-3	5-5
300.00	3-10	4-2	4-6	4-10	5-1	5-5	5-8	5-11	6-3	6-5
325.00	4-6	4-11	5-3	5-8	6-0	6-4	6-8	7-0	7-4	7-7
350.00	5-3	5-8	6-1	6-6	6-11	7-4	7-9	8-1	8-6	8-9
375.00	6-0	6-6	7-0	7-6	8-0	8-5	8-11	9-4	9-9	10-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>24 OF 360</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.24
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS									

Span = 100 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.737	0.4	2312	0.37	2500*
25	0	0	0	0.52	0.29	2234	0.27	2445
30	0	0	0	0.52	0.32	2041	0.28	2290
40	0	0	0	0.52	0.39	1672	0.33	1981
50	0	0	0	0.52	0.49	1339	0.39	1680
60	0	0	0	0.52	0.61	1062	0.47	1394
70	0	0	0	0.52	0.76	855	0.57	1140
80	0	0	0	0.52	0.92	709	0.7	932
90	0	0	0	0.52	1.01	643	0.84	774
100	0	0	0	0.52	1.09	599	0.99	659
110	0	0	0	0.52	1.16	560	1.13	575
120	0	0	0	0.52	1.24	526	1.24	526
130	0	0	0	0.52	1.31	495	1.31	495
167	0	0	0	0.52	1.58	411	1.58	411
212	0	0	0	0.52	1.89	345	1.89	345

* Design Condition

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.737	1.63	2261	1.47	2500*
25	0	0	0	0.52	1.3	2006	1.13	2309
30	0	0	0	0.52	1.39	1864	1.19	2178
40	0	0	0	0.52	1.61	1613	1.35	1929
50	0	0	0	0.52	1.85	1407	1.53	1703
60	0	0	0	0.52	2.1	1241	1.73	1504
70	0	0	0	0.52	2.35	1109	1.95	1335
80	0	0	0	0.52	2.59	1004	2.18	1196
90	0	0	0	0.52	2.83	920	2.41	1081
100	0	0	0	0.52	3.02	861	2.64	987
110	0	0	0	0.52	3.14	829	2.86	910
120	0	0	0	0.52	3.26	798	3.08	845
130	0	0	0	0.52	3.38	770	3.29	791
167	0	0	0	0.52	3.81	683	3.8	684
212	0	0	0	0.52	4.31	605	4.3	605

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>27 OF 360</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.27
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS									

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.737	3.64	2278	3.32	2500*
25	0	0	0	0.52	3.12	1873	2.71	2156
30	0	0	0	0.52	3.28	1782	2.84	2059
40	0	0	0	0.52	3.61	1621	3.11	1879
50	0	0	0	0.52	3.94	1487	3.4	1721
60	0	0	0	0.52	4.26	1374	3.7	1584
70	0	0	0	0.52	4.58	1279	3.99	1465
80	0	0	0	0.52	4.89	1198	4.29	1363
90	0	0	0	0.52	5.19	1128	4.59	1275
100	0	0	0	0.52	5.48	1068	4.88	1199
110	0	0	0	0.52	5.74	1021	5.17	1133
120	0	0	0	0.52	5.89	994	5.45	1075
130	0	0	0	0.52	6.05	969	5.72	1024
167	0	0	0	0.52	6.61	887	6.59	889
212	0	0	0	0.52	7.26	807	7.25	809

* Design Condition

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.737	6.37	2314	5.9	2500*
25	0	0	0	0.52	5.74	1813	5.11	2037
30	0	0	0	0.52	5.94	1753	5.29	1969
40	0	0	0	0.52	6.33	1645	5.64	1845
50	0	0	0	0.52	6.71	1551	6	1734
60	0	0	0	0.52	7.09	1469	6.36	1637
70	0	0	0	0.52	7.46	1396	6.72	1550
80	0	0	0	0.52	7.82	1332	7.07	1473
90	0	0	0	0.52	8.17	1276	7.42	1404
100	0	0	0	0.52	8.51	1225	7.76	1343
110	0	0	0	0.52	8.84	1179	8.09	1288
120	0	0	0	0.52	9.13	1141	8.42	1238
130	0	0	0	0.52	9.31	1119	8.74	1193
167	0	0	0	0.52	9.98	1044	9.86	1057
212	0	0	0	0.52	10.77	969	10.74	971
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 28 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.28
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.737	9.82	2348	9.22	2500*
25	0	0	0	0.52	9.11	1786	8.31	1957
30	0	0	0	0.52	9.33	1744	8.52	1909
40	0	0	0	0.52	9.76	1667	8.93	1822
50	0	0	0	0.52	10.18	1598	9.34	1743
60	0	0	0	0.52	10.6	1536	9.74	1671
70	0	0	0	0.52	11	1480	10.14	1606
80	0	0	0	0.52	11.4	1429	10.53	1546
90	0	0	0	0.52	11.79	1382	10.91	1492
100	0	0	0	0.52	12.16	1339	11.29	1442
110	0	0	0	0.52	12.53	1300	11.66	1397
120	0	0	0	0.52	12.9	1263	12.03	1354
130	0	0	0	0.52	13.19	1235	12.38	1315
167	0	0	0	0.52	13.95	1168	13.65	1194
212	0	0	0	0.52	14.85	1098	14.82	1101

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

Completely Revised

	X
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Information Removed

SHEET
29 OF 360

OH811.29

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8
100.00	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-10	1-0	1-2
125.00	0-5	0-5	0-6	0-7	0-9	0-11	1-1	1-4	1-7	1-9
150.00	0-7	0-8	0-9	0-10	1-1	1-3	1-7	1-11	2-3	2-7
175.00	0-9	0-10	1-0	1-2	1-5	1-9	2-2	2-7	3-0	3-6
200.00	1-0	1-2	1-4	1-7	1-10	2-3	2-9	3-4	3-11	4-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-7	0-8
100.00	0-3	0-4	0-5	0-6	0-7	0-9	0-11	1-0	1-1	1-2
125.00	0-5	0-6	0-7	0-9	0-11	1-2	1-5	1-7	1-8	1-10
150.00	0-7	0-9	0-10	1-1	1-5	1-9	2-1	2-3	2-5	2-7
175.00	0-10	1-0	1-2	1-6	1-10	2-4	2-10	3-1	3-4	3-7
200.00	1-1	1-3	1-7	1-11	2-5	3-1	3-8	4-1	4-4	4-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>30 OF 360</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH811.30
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9
125.00	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1
150.00	0-7	0-8	0-9	0-10	1-0	1-1	1-3	1-4	1-6	1-7
175.00	0-10	0-11	1-0	1-2	1-4	1-6	1-8	1-10	2-0	2-2
200.00	1-1	1-2	1-4	1-6	1-9	1-11	2-2	2-5	2-8	2-10
225.00	1-4	1-6	1-8	1-11	2-2	2-6	2-9	3-1	3-4	3-7
250.00	1-8	1-10	2-1	2-5	2-8	3-1	3-5	3-9	4-1	4-6

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-9
125.00	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3
150.00	0-8	0-9	0-11	1-0	1-2	1-4	1-5	1-7	1-8	1-9
175.00	0-11	1-1	1-3	1-5	1-7	1-10	2-0	2-2	2-4	2-5
200.00	1-2	1-5	1-7	1-10	2-1	2-4	2-7	2-10	3-0	3-2
225.00	1-6	1-9	2-0	2-4	2-8	3-0	3-3	3-7	3-10	4-0
250.00	1-11	2-2	2-6	2-11	3-3	3-8	4-1	4-5	4-9	4-11

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 31 OF 360		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH811.31
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0
225.00	1-7	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-5	2-7
250.00	1-11	2-1	2-2	2-4	2-6	2-7	2-9	2-11	3-0	3-2
275.00	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-10
300.00	2-9	3-0	3-2	3-5	3-7	3-9	4-0	4-2	4-4	4-7
325.00	3-3	3-6	3-9	4-0	4-2	4-5	4-8	4-11	5-1	5-4
350.00	3-9	4-1	4-4	4-7	4-10	5-2	5-5	5-8	5-11	6-2
375.00	4-4	4-8	5-0	5-3	5-7	5-11	6-3	6-6	6-10	7-1
400.00	4-11	5-3	5-8	6-0	6-4	6-9	7-1	7-5	7-9	8-1
425.00	5-7	6-0	6-4	6-9	7-2	7-7	8-0	8-4	8-9	9-2
450.00	6-3	6-8	7-2	7-7	8-1	8-6	8-11	9-5	9-10	10-3
475.00	7-0	7-5	7-11	8-6	9-0	9-6	10-0	10-6	10-11	11-5
500.00	7-9	8-3	8-10	9-5	9-11	10-6	11-1	11-7	12-1	12-8

Stringing Sag Table Using Final Sag							Ruling Span:		400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-2	2-3
225.00	1-9	1-11	2-0	2-1	2-3	2-4	2-6	2-7	2-8	2-10
250.00	2-2	2-4	2-6	2-7	2-9	2-11	3-1	3-2	3-4	3-5
275.00	2-7	2-10	3-0	3-2	3-4	3-6	3-8	3-10	4-0	4-2
300.00	3-1	3-4	3-7	3-9	4-0	4-2	4-5	4-7	4-9	5-0
325.00	3-8	3-11	4-2	4-5	4-8	4-11	5-2	5-5	5-7	5-10
350.00	4-3	4-7	4-10	5-2	5-5	5-9	6-0	6-3	6-6	6-9
375.00	4-10	5-3	5-7	5-11	6-3	6-7	6-10	7-2	7-6	7-9
400.00	5-7	5-11	6-4	6-9	7-1	7-5	7-10	8-2	8-6	8-10
425.00	6-3	6-8	7-2	7-7	8-0	8-5	8-10	9-3	9-7	10-0
450.00	7-0	7-6	8-0	8-6	9-0	9-5	9-11	10-4	10-9	11-2
475.00	7-10	8-4	8-11	9-6	10-0	10-6	11-0	11-6	12-0	12-6
500.00	8-8	9-3	9-11	10-6	11-1	11-8	12-3	12-9	13-4	13-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 33 OF 360		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH811.33
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS											

* Design Condition

* Design Condition

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 35 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.35
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>36 OF 360</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH811.36
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-7
125.00	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11
150.00	0-6	0-6	0-7	0-8	0-9	0-10	1-0	1-1	1-3	1-4
175.00	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-6	1-8	1-10
200.00	0-10	0-11	1-1	1-2	1-4	1-6	1-9	1-11	2-2	2-5
225.00	1-1	1-3	1-4	1-6	1-9	1-11	2-2	2-6	2-9	3-1
250.00	1-4	1-6	1-8	1-10	2-1	2-5	2-9	3-1	3-5	3-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-8
125.00	0-5	0-5	0-6	0-7	0-8	0-9	0-11	1-0	1-1	1-1
150.00	0-7	0-8	0-9	0-10	1-0	1-1	1-3	1-5	1-6	1-7
175.00	0-9	0-10	1-0	1-2	1-4	1-6	1-9	1-11	2-1	2-2
200.00	1-0	1-2	1-4	1-6	1-9	2-0	2-3	2-6	2-8	2-10
225.00	1-3	1-5	1-8	1-11	2-3	2-6	2-10	3-2	3-5	3-7
250.00	1-7	1-9	2-1	2-5	2-9	3-1	3-6	3-11	4-2	4-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>39 OF 360</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.39
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1
175.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-6
200.00	0-11	1-0	1-1	1-2	1-4	1-5	1-7	1-9	1-10	2-0
225.00	1-2	1-3	1-5	1-6	1-8	1-10	2-0	2-2	2-4	2-6
250.00	1-5	1-7	1-9	1-11	2-1	2-3	2-6	2-8	2-11	3-1
275.00	1-9	1-11	2-1	2-3	2-6	2-9	3-0	3-3	3-6	3-9
300.00	2-1	2-3	2-6	2-8	3-0	3-3	3-7	3-10	4-2	4-5
325.00	2-5	2-8	2-11	3-2	3-6	3-10	4-2	4-6	4-10	5-3
350.00	2-10	3-1	3-4	3-8	4-1	4-5	4-10	5-3	5-8	6-1
375.00	3-3	3-6	3-10	4-3	4-8	5-1	5-6	6-0	6-6	6-11

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
175.00	0-10	0-11	1-0	1-2	1-3	1-4	1-6	1-7	1-8	1-9
200.00	1-1	1-2	1-4	1-6	1-7	1-9	1-11	2-1	2-2	2-4
225.00	1-4	1-6	1-8	1-10	2-1	2-3	2-5	2-7	2-9	2-11
250.00	1-8	1-10	2-1	2-4	2-6	2-9	3-0	3-2	3-5	3-7
275.00	2-0	2-3	2-6	2-9	3-1	3-4	3-7	3-10	4-2	4-4
300.00	2-5	2-8	3-0	3-4	3-8	4-0	4-3	4-7	4-11	5-2
325.00	2-10	3-2	3-6	3-11	4-3	4-8	5-0	5-5	5-9	6-1
350.00	3-3	3-8	4-1	4-6	4-11	5-5	5-10	6-3	6-8	7-1
375.00	3-9	4-2	4-8	5-2	5-8	6-2	6-8	7-2	7-8	8-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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SHEET 40 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.40
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-0	1-1	1-1	1-3	1-4	1-5	1-6	1-7	1-8	1-9
225.00	1-3	1-4	1-5	1-6	1-8	1-9	1-10	2-0	2-1	2-3
250.00	1-6	1-8	1-9	1-11	2-0	2-2	2-4	2-5	2-7	2-9
275.00	1-10	2-0	2-2	2-3	2-5	2-7	2-10	3-0	3-2	3-4
300.00	2-2	2-4	2-6	2-9	2-11	3-1	3-4	3-6	3-9	3-11
325.00	2-7	2-9	3-0	3-2	3-5	3-8	3-11	4-2	4-5	4-7
350.00	3-0	3-2	3-5	3-8	4-0	4-3	4-6	4-10	5-1	5-4
375.00	3-5	3-8	3-11	4-3	4-7	4-11	5-2	5-6	5-10	6-2
400.00	3-10	4-2	4-6	4-10	5-2	5-7	5-11	6-3	6-8	7-0
425.00	4-4	4-9	5-1	5-6	5-10	6-3	6-8	7-1	7-6	7-11
450.00	4-11	5-3	5-8	6-2	6-7	7-0	7-6	7-11	8-5	8-10
475.00	5-6	5-11	6-4	6-10	7-4	7-10	8-4	8-10	9-4	9-10
500.00	6-1	6-6	7-0	7-7	8-1	8-8	9-3	9-10	10-4	10-11

Stringing Sag Table Using Final Sag							Ruling Span:		400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-10	1-11	2-0
225.00	1-5	1-7	1-8	1-10	1-11	2-1	2-2	2-3	2-5	2-6
250.00	1-9	1-11	2-1	2-3	2-5	2-6	2-8	2-10	3-0	3-1
275.00	2-2	2-4	2-6	2-8	2-11	3-1	3-3	3-5	3-7	3-9
300.00	2-6	2-9	3-0	3-2	3-5	3-8	3-10	4-1	4-3	4-6
325.00	3-0	3-3	3-6	3-9	4-0	4-3	4-6	4-9	5-0	5-3
350.00	3-5	3-9	4-1	4-4	4-8	4-11	5-3	5-6	5-10	6-1
375.00	4-0	4-4	4-8	5-0	5-4	5-8	6-0	6-4	6-8	7-0
400.00	4-6	4-11	5-4	5-8	6-1	6-6	6-10	7-3	7-7	7-11
425.00	5-1	5-6	6-0	6-5	6-10	7-4	7-9	8-2	8-7	9-0
450.00	5-9	6-2	6-8	7-2	7-8	8-2	8-8	9-2	9-7	10-1
475.00	6-4	6-11	7-6	8-0	8-7	9-2	9-8	10-2	10-9	11-3
500.00	7-1	7-8	8-3	8-11	9-6	10-1	10-9	11-4	11-10	12-5

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<div>SHEET</div> <div>41 OF 360</div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	OH811.41
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS						

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.591	51.87	1000	51.87	1000*
0	0	0	0	0.52	51.69	328	51.63	328
30	0	0	0	0.52	52.01	326	51.97	326
40	0	0	0	0.52	52.11	325	52.07	326
50	0	0	0	0.52	52.21	325	52.17	325
60	0	0	0	0.52	52.31	324	52.27	325
70	0	0	0	0.52	52.41	324	52.36	324
80	0	0	0	0.52	52.49	323	52.46	323
90	0	0	0	0.52	52.55	323	52.55	323
100	0	0	0	0.52	52.62	323	52.62	323
110	0	0	0	0.52	52.69	322	52.68	322
120	0	0	0	0.52	52.75	322	52.75	322
130	0	0	0	0.52	52.82	321	52.82	321
167	0	0	0	0.52	53.06	320	53.06	320
212	0	0	0	0.52	53.36	318	53.36	318

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div>SHEET</div> <div>45 OF 360</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.45
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS					

Completely Revised

New Page

OH811.45

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-2	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6
100.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-7	2-8
125.00	3-2	3-3	3-5	3-7	3-8	3-10	3-11	4-0	4-1	4-2
150.00	4-6	4-9	4-11	5-1	5-4	5-6	5-8	5-9	5-11	6-0
175.00	6-2	6-5	6-8	6-11	7-2	7-5	7-8	7-10	8-0	8-2
200.00	8-0	8-5	8-9	9-1	9-5	9-9	10-1	10-3	10-6	10-8

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-2	1-2	1-3	1-4	1-4	1-5	1-5	1-5	1-6	1-6
100.00	2-0	2-1	2-3	2-4	2-5	2-5	2-6	2-7	2-7	2-8
125.00	3-2	3-4	3-6	3-7	3-9	3-10	3-11	4-0	4-1	4-2
150.00	4-7	4-9	5-0	5-2	5-4	5-6	5-8	5-9	5-11	6-0
175.00	6-3	6-6	6-10	7-1	7-4	7-6	7-8	7-10	8-0	8-2
200.00	8-2	8-6	8-11	9-3	9-7	9-10	10-1	10-3	10-6	10-8

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SHEET
46 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN G095 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1000 LBS

OH811.46

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-0	2-0	2-1	2-1	2-1	2-1	2-2	2-2	2-2	2-2
125.00	3-2	3-2	3-2	3-3	3-3	3-4	3-4	3-5	3-5	3-5
150.00	4-6	4-7	4-7	4-8	4-9	4-9	4-10	4-10	4-11	4-11
175.00	6-2	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-8	6-9
200.00	8-0	8-1	8-2	8-4	8-5	8-6	8-7	8-8	8-9	8-9
225.00	10-2	10-3	10-5	10-6	10-8	10-9	10-10	11-0	11-1	11-1
250.00	12-6	12-8	12-10	13-0	13-2	13-3	13-5	13-7	13-8	13-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-0	2-0	2-1	2-1	2-1	2-2	2-2	2-2	2-2	2-2
125.00	3-2	3-2	3-3	3-3	3-3	3-4	3-4	3-5	3-5	3-5
150.00	4-6	4-7	4-8	4-8	4-9	4-10	4-10	4-10	4-11	4-11
175.00	6-2	6-3	6-4	6-5	6-5	6-6	6-7	6-8	6-8	6-9
200.00	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9	8-9
225.00	10-2	10-4	10-5	10-7	10-8	10-10	10-11	11-0	11-1	11-1
250.00	12-7	12-9	12-11	13-1	13-2	13-4	13-5	13-7	13-8	13-9

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 47 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.47
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-1	8-2	8-2	8-2	8-3	8-3	8-3	8-3	8-4	8-4
225.00	10-3	10-4	10-4	10-4	10-5	10-5	10-6	10-6	10-6	10-6
250.00	12-8	12-9	12-9	12-10	12-10	12-11	12-11	12-11	13-0	13-0
275.00	15-5	15-5	15-6	15-6	15-7	15-7	15-8	15-8	15-9	15-9
300.00	18-4	18-4	18-5	18-6	18-6	18-7	18-8	18-8	18-9	18-9
325.00	21-6	21-7	21-8	21-8	21-9	21-10	21-11	21-11	22-0	22-0
350.00	25-0	25-1	25-1	25-2	25-3	25-4	25-5	25-6	25-6	25-7
375.00	28-8	28-9	28-10	28-11	29-0	29-1	29-2	29-3	29-4	29-5
400.00	32-8	32-9	32-11	33-0	33-1	33-2	33-3	33-4	33-5	33-6
425.00	36-11	37-1	37-2	37-3	37-5	37-6	37-7	37-8	37-9	37-10
450.00	41-5	41-7	41-8	41-10	41-11	42-1	42-2	42-4	42-5	42-6
475.00	46-3	46-5	46-6	46-8	46-10	46-11	47-1	47-3	47-4	47-5
500.00	51-4	51-6	51-7	51-9	51-11	52-1	52-3	52-5	52-6	52-7

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-1	8-2	8-2	8-2	8-3	8-3	8-3	8-3	8-4	8-4
225.00	10-3	10-4	10-4	10-5	10-5	10-5	10-6	10-6	10-6	10-6
250.00	12-9	12-9	12-9	12-10	12-10	12-11	12-11	12-11	13-0	13-0
275.00	15-5	15-5	15-6	15-6	15-7	15-7	15-8	15-8	15-9	15-9
300.00	18-4	18-5	18-5	18-6	18-7	18-7	18-8	18-8	18-9	18-9
325.00	21-6	21-7	21-8	21-9	21-10	21-10	21-11	21-11	22-0	22-0
350.00	25-0	25-1	25-2	25-3	25-4	25-4	25-5	25-6	25-6	25-7
375.00	28-9	28-10	28-11	29-0	29-1	29-2	29-3	29-3	29-4	29-5
400.00	32-9	32-10	32-11	33-0	33-1	33-3	33-3	33-4	33-5	33-6
425.00	37-0	37-1	37-2	37-4	37-5	37-6	37-7	37-8	37-9	37-10
450.00	41-6	41-7	41-9	41-11	42-0	42-2	42-3	42-4	42-5	42-6
475.00	46-4	46-5	46-7	46-9	46-10	47-0	47-1	47-3	47-4	47-5
500.00	51-4	51-6	51-8	51-10	52-0	52-2	52-3	52-5	52-6	52-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>49 OF 360</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH811.49
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	12-10	12-10	12-11	12-11	12-11	12-11	13-0	13-0	13-0	13-0
275.00	15-6	15-7	15-7	15-8	15-8	15-8	15-9	15-9	15-9	15-9
300.00	18-6	18-7	18-7	18-7	18-8	18-8	18-9	18-9	18-9	18-10
325.00	21-9	21-9	21-10	21-10	21-11	21-11	22-0	22-0	22-1	22-1
350.00	25-3	25-3	25-4	25-5	25-5	25-6	25-6	25-7	25-7	25-8
375.00	29-0	29-1	29-1	29-2	29-3	29-3	29-4	29-5	29-5	29-5
400.00	33-0	33-1	33-2	33-3	33-3	33-4	33-5	33-6	33-6	33-7
425.00	37-4	37-5	37-6	37-7	37-7	37-8	37-9	37-10	37-10	37-11
450.00	41-11	42-0	42-1	42-2	42-3	42-4	42-5	42-5	42-6	42-7
475.00	46-9	46-10	46-11	47-0	47-1	47-2	47-3	47-4	47-5	47-6
500.00	51-11	52-0	52-1	52-2	52-3	52-4	52-6	52-7	52-7	52-8
525.00	57-3	57-5	57-6	57-7	57-8	57-10	57-11	58-0	58-1	58-2
550.00	62-11	63-1	63-2	63-4	63-5	63-7	63-8	63-9	63-10	63-11
575.00	68-11	69-1	69-2	69-4	69-5	69-7	69-8	69-10	69-11	70-0
600.00	75-2	75-4	75-5	75-7	75-9	75-10	76-0	76-2	76-3	76-4
625.00	81-8	81-10	82-0	82-2	82-4	82-6	82-8	82-9	82-11	83-0

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	12-10	12-10	12-11	12-11	12-11	13-0	13-0	13-0	13-0	13-0
275.00	15-7	15-7	15-7	15-8	15-8	15-8	15-9	15-9	15-9	15-9
300.00	18-6	18-7	18-7	18-8	18-8	18-8	18-9	18-9	18-9	18-10
325.00	21-9	21-10	21-10	21-11	21-11	22-0	22-0	22-0	22-1	22-1
350.00	25-3	25-4	25-4	25-5	25-5	25-6	25-6	25-7	25-7	25-8
375.00	29-0	29-1	29-2	29-2	29-3	29-4	29-4	29-5	29-5	29-5
400.00	33-1	33-1	33-2	33-3	33-4	33-4	33-5	33-6	33-6	33-7
425.00	37-4	37-5	37-6	37-7	37-8	37-9	37-9	37-10	37-10	37-11
450.00	41-11	42-0	42-1	42-2	42-3	42-4	42-5	42-5	42-6	42-7
475.00	46-9	46-10	47-0	47-1	47-2	47-3	47-4	47-4	47-5	47-6
500.00	51-11	52-0	52-1	52-2	52-4	52-5	52-6	52-7	52-7	52-8
525.00	57-4	57-5	57-6	57-8	57-9	57-10	57-11	58-0	58-1	58-2
550.00	63-0	63-1	63-3	63-4	63-6	63-7	63-8	63-9	63-10	63-11
575.00	68-11	69-1	69-3	69-4	69-6	69-8	69-9	69-10	69-11	70-0
600.00	75-2	75-4	75-6	75-8	75-10	75-11	76-1	76-2	76-3	76-4
625.00	81-9	81-11	82-1	82-3	82-5	82-7	82-8	82-9	82-11	83-0

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* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 51 OF 360		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH811.51
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS											

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 52 OF 360		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH811.52
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS											

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.591	33.75	1500	33.75	1500*
0	0	0	0	0.52	33.39	495	33.31	497
30	0	0	0	0.52	33.84	489	33.77	490
40	0	0	0	0.52	33.99	487	33.91	488
50	0	0	0	0.52	34.14	485	34.06	486
60	0	0	0	0.52	34.29	483	34.2	484
70	0	0	0	0.52	34.44	481	34.35	482
80	0	0	0	0.52	34.59	479	34.49	480
90	0	0	0	0.52	34.71	477	34.64	478
100	0	0	0	0.52	34.81	476	34.78	476
110	0	0	0	0.52	34.91	475	34.91	475
120	0	0	0	0.52	35	473	35	473
130	0	0	0	0.52	35.1	472	35.1	472
167	0	0	0	0.52	35.46	468	35.46	468
212	0	0	0	0.52	35.89	462	35.89	462

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

OH811.53

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-2
100.00	1-3	1-4	1-6	1-7	1-8	1-10	1-11	2-0	2-1	2-1
125.00	1-11	2-1	2-3	2-6	2-8	2-10	3-0	3-1	3-2	3-4
150.00	2-9	3-0	3-4	3-7	3-10	4-1	4-3	4-6	4-7	4-9
175.00	3-8	4-1	4-6	4-10	5-2	5-6	5-10	6-1	6-3	6-6
200.00	4-10	5-4	5-10	6-4	6-9	7-2	7-7	8-0	8-3	8-6

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-9	0-9	0-10	0-11	1-0	1-1	1-1	1-1	1-2	1-2
100.00	1-3	1-5	1-6	1-8	1-9	1-10	1-11	2-0	2-1	2-1
125.00	2-0	2-2	2-5	2-7	2-9	2-11	3-0	3-1	3-2	3-4
150.00	2-10	3-2	3-5	3-9	4-0	4-2	4-4	4-6	4-7	4-9
175.00	3-11	4-4	4-8	5-1	5-5	5-9	5-11	6-1	6-3	6-6
200.00	5-1	5-8	6-2	6-7	7-1	7-6	7-9	8-0	8-3	8-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 54 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.54
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-0	3-0	3-0	3-1	3-1	3-2	3-2	3-3	3-3	3-3
175.00	4-0	4-1	4-2	4-2	4-3	4-3	4-4	4-4	4-5	4-5
200.00	5-3	5-4	5-5	5-6	5-6	5-7	5-8	5-9	5-9	5-10
225.00	6-8	6-9	6-10	6-11	7-0	7-1	7-2	7-3	7-4	7-4
250.00	8-3	8-4	8-5	8-7	8-8	8-9	8-10	8-11	9-0	9-1
275.00	10-0	10-1	10-3	10-4	10-6	10-7	10-8	10-10	10-11	11-0
300.00	11-11	12-0	12-2	12-4	12-5	12-7	12-9	12-10	13-0	13-1
325.00	13-11	14-1	14-3	14-5	14-7	14-9	14-11	15-1	15-3	15-5
350.00	16-2	16-5	16-7	16-9	17-0	17-2	17-4	17-6	17-9	17-10
375.00	18-7	18-10	19-0	19-3	19-6	19-8	19-11	20-2	20-4	20-6

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-0	3-0	3-1	3-1	3-2	3-2	3-2	3-3	3-3	3-3
175.00	4-1	4-1	4-2	4-3	4-3	4-4	4-4	4-5	4-5	4-5
200.00	5-4	5-4	5-5	5-6	5-7	5-8	5-8	5-9	5-9	5-10
225.00	6-9	6-10	6-11	7-0	7-1	7-2	7-2	7-3	7-4	7-4
250.00	8-4	8-5	8-6	8-7	8-8	8-10	8-11	9-0	9-0	9-1
275.00	10-0	10-2	10-3	10-5	10-6	10-8	10-9	10-10	10-11	11-0
300.00	11-11	12-1	12-3	12-5	12-6	12-8	12-10	12-11	13-0	13-1
325.00	14-0	14-2	14-5	14-7	14-9	14-11	15-1	15-2	15-3	15-5
350.00	16-3	16-6	16-8	16-11	17-1	17-3	17-6	17-7	17-9	17-10
375.00	18-8	18-11	19-2	19-5	19-7	19-10	20-1	20-3	20-4	20-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 56 OF 360		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH811.56
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS											

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-4	5-4	5-5	5-5	5-6	5-6	5-6	5-7	5-7	5-8
225.00	6-9	6-9	6-10	6-10	6-11	6-11	7-0	7-1	7-1	7-2
250.00	8-4	8-4	8-5	8-6	8-6	8-7	8-8	8-8	8-9	8-10
275.00	10-1	10-2	10-2	10-3	10-4	10-5	10-6	10-6	10-7	10-8
300.00	12-0	12-1	12-2	12-3	12-4	12-5	12-6	12-6	12-7	12-8
325.00	14-1	14-2	14-3	14-4	14-5	14-6	14-8	14-9	14-10	14-11
350.00	16-4	16-5	16-6	16-8	16-9	16-10	17-0	17-1	17-2	17-3
375.00	18-9	18-10	19-0	19-1	19-3	19-4	19-6	19-7	19-9	19-10
400.00	21-4	21-6	21-7	21-9	21-11	22-1	22-2	22-4	22-6	22-7
425.00	24-1	24-3	24-5	24-7	24-9	24-11	25-1	25-3	25-5	25-6
450.00	27-0	27-2	27-5	27-7	27-9	27-11	28-1	28-4	28-6	28-8
475.00	30-1	30-4	30-6	30-9	30-11	31-2	31-4	31-7	31-9	31-11
500.00	33-5	33-7	33-10	34-1	34-4	34-6	34-9	35-0	35-2	35-5

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-4	5-4	5-5	5-5	5-6	5-6	5-7	5-7	5-7	5-8
225.00	6-9	6-10	6-10	6-11	6-11	7-0	7-0	7-1	7-1	7-2
250.00	8-4	8-5	8-5	8-6	8-7	8-8	8-8	8-9	8-9	8-10
275.00	10-1	10-2	10-3	10-4	10-4	10-5	10-6	10-7	10-7	10-8
300.00	12-0	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-8
325.00	14-1	14-2	14-4	14-5	14-6	14-7	14-8	14-9	14-10	14-11
350.00	16-4	16-6	16-7	16-9	16-10	16-11	17-1	17-2	17-3	17-3
375.00	18-10	18-11	19-1	19-2	19-4	19-5	19-7	19-8	19-9	19-10
400.00	21-5	21-7	21-8	21-10	22-0	22-2	22-3	22-5	22-6	22-7
425.00	24-2	24-4	24-6	24-8	24-10	25-0	25-2	25-4	25-5	25-6
450.00	27-1	27-4	27-6	27-8	27-10	28-1	28-3	28-5	28-6	28-8
475.00	30-3	30-5	30-8	30-10	31-1	31-3	31-6	31-8	31-9	31-11
500.00	33-6	33-9	34-0	34-3	34-5	34-8	34-11	35-1	35-3	35-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>57 OF 360</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH811.57
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.591	16.01	2000	16.01	2000*
0	0	0	0	0.52	15.36	681	15.24	686
30	0	0	0	0.52	15.97	655	15.84	661
40	0	0	0	0.52	16.17	647	16.03	653
50	0	0	0	0.52	16.37	640	16.22	645
60	0	0	0	0.52	16.56	632	16.41	638
70	0	0	0	0.52	16.75	625	16.6	631
80	0	0	0	0.52	16.94	618	16.78	624
90	0	0	0	0.52	17.13	612	16.96	617
100	0	0	0	0.52	17.28	607	17.15	611
110	0	0	0	0.52	17.4	602	17.33	605
120	0	0	0	0.52	17.52	598	17.51	599
130	0	0	0	0.52	17.64	594	17.64	594
167	0	0	0	0.52	18.07	580	18.07	580
212	0	0	0	0.52	18.59	564	18.59	564
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 60 OF 360		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH811.60
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS											

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.591	25.11	2000	25.11	2000*
0	0	0	0	0.52	24.46	671	24.34	674
30	0	0	0	0.52	25.07	655	24.93	658
40	0	0	0	0.52	25.27	650	25.13	653
50	0	0	0	0.52	25.47	645	25.32	648
60	0	0	0	0.52	25.67	640	25.51	644
70	0	0	0	0.52	25.86	635	25.7	639
80	0	0	0	0.52	26.05	630	25.89	634
90	0	0	0	0.52	26.25	626	26.08	630
100	0	0	0	0.52	26.41	622	26.27	626
110	0	0	0	0.52	26.54	619	26.45	621
120	0	0	0	0.52	26.66	616	26.64	617
130	0	0	0	0.52	26.78	614	26.78	614
167	0	0	0	0.52	27.24	604	27.24	604
212	0	0	0	0.52	27.78	592	27.78	592
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>61 OF 360</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH811.61</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN G095 HEAVY LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 2000 LBS</p> </div>						

Completely Revised

 New Page

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

OH811.61

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-0
100.00	0-9	0-10	1-0	1-2	1-3	1-5	1-6	1-8	1-9	1-10
125.00	1-1	1-4	1-7	1-10	2-0	2-2	2-5	2-7	2-9	2-10
150.00	1-7	1-11	2-3	2-7	2-11	3-2	3-5	3-8	3-11	4-1
175.00	2-2	2-8	3-1	3-6	3-11	4-4	4-8	5-0	5-4	5-6
200.00	2-11	3-5	4-0	4-7	5-2	5-8	6-2	6-7	6-11	7-3

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0
100.00	0-10	1-0	1-1	1-3	1-5	1-6	1-7	1-8	1-9	1-10
125.00	1-3	1-6	1-9	2-0	2-2	2-4	2-6	2-7	2-9	2-10
150.00	1-10	2-2	2-6	2-10	3-2	3-5	3-7	3-9	3-11	4-1
175.00	2-6	2-11	3-5	3-10	4-3	4-8	4-11	5-1	5-4	5-6
200.00	3-3	3-10	4-6	5-0	5-7	6-1	6-5	6-8	6-11	7-3

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>62 OF 360</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.62
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	0-11	1-0	1-1	1-1	1-2	1-2	1-2	1-3	1-3
125.00	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-11	1-11	2-0
150.00	2-0	2-2	2-3	2-4	2-5	2-6	2-8	2-9	2-10	2-11
175.00	2-9	2-11	3-1	3-2	3-4	3-5	3-7	3-8	3-10	3-11
200.00	3-8	3-10	4-0	4-2	4-4	4-6	4-8	4-10	5-0	5-2
225.00	4-7	4-10	5-1	5-3	5-6	5-9	5-11	6-1	6-4	6-6
250.00	5-8	6-0	6-3	6-6	6-10	7-1	7-4	7-7	7-10	8-0

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-3
125.00	1-6	1-6	1-7	1-8	1-9	1-10	1-11	1-11	2-0	2-0
150.00	2-1	2-3	2-4	2-5	2-6	2-7	2-9	2-9	2-10	2-11
175.00	2-10	3-0	3-2	3-4	3-5	3-7	3-8	3-9	3-10	3-11
200.00	3-9	3-11	4-2	4-4	4-6	4-8	4-10	4-11	5-0	5-2
225.00	4-9	5-0	5-3	5-6	5-8	5-11	6-1	6-3	6-5	6-6
250.00	5-10	6-2	6-6	6-9	7-0	7-3	7-6	7-9	7-11	8-0

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>63 OF 360</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.63
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span:	300.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-2	2-2	2-3	2-4	2-4	2-5	2-5	2-6	2-6	2-7
175.00	2-11	3-0	3-1	3-1	3-2	3-3	3-4	3-4	3-5	3-6
200.00	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7
225.00	4-10	4-11	5-1	5-2	5-3	5-4	5-6	5-7	5-8	5-9
250.00	6-0	6-1	6-3	6-5	6-6	6-8	6-9	6-10	7-0	7-1
275.00	7-3	7-5	7-7	7-9	7-10	8-0	8-2	8-4	8-6	8-7
300.00	8-7	8-10	9-0	9-2	9-4	9-7	9-9	9-11	10-1	10-3
325.00	10-1	10-4	10-7	10-9	11-0	11-3	11-5	11-7	11-10	12-0
350.00	11-9	12-0	12-3	12-6	12-9	13-0	13-3	13-6	13-9	13-11
375.00	13-6	13-9	14-1	14-4	14-8	14-11	15-3	15-6	15-9	16-0

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-2	2-3	2-3	2-4	2-5	2-5	2-6	2-6	2-6	2-7
175.00	3-0	3-0	3-1	3-2	3-3	3-4	3-4	3-5	3-6	3-6
200.00	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-6	4-7
225.00	4-11	5-0	5-2	5-3	5-4	5-5	5-7	5-8	5-9	5-9
250.00	6-1	6-2	6-4	6-6	6-7	6-9	6-10	7-0	7-1	7-2
275.00	7-4	7-6	7-8	7-10	8-0	8-2	8-4	8-5	8-7	8-8
300.00	8-9	8-11	9-2	9-4	9-6	9-8	9-11	10-1	10-2	10-3
325.00	10-3	10-6	10-9	10-11	11-2	11-5	11-7	11-10	11-11	12-1
350.00	11-11	12-2	12-5	12-8	13-0	13-3	13-5	13-8	13-10	14-0
375.00	13-8	14-0	14-3	14-7	14-11	15-2	15-5	15-9	15-11	16-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
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B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 64 OF 360		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH811.64
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS											

Stringing Sag Table Using Initial Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-11	3-11	4-0	4-1	4-1	4-2	4-2	4-3	4-3	4-4
225.00	4-11	5-0	5-1	5-1	5-2	5-3	5-4	5-4	5-5	5-6
250.00	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-7	6-8	6-9
275.00	7-5	7-6	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2
300.00	8-9	8-11	9-0	9-1	9-3	9-4	9-5	9-6	9-8	9-9
325.00	10-4	10-5	10-7	10-8	10-10	10-11	11-1	11-2	11-4	11-5
350.00	12-0	12-1	12-3	12-5	12-7	12-8	12-10	13-0	13-1	13-3
375.00	13-9	13-11	14-1	14-3	14-5	14-7	14-9	14-11	15-1	15-3
400.00	15-8	15-10	16-0	16-3	16-5	16-7	16-9	17-0	17-2	17-4
425.00	17-8	17-11	18-1	18-4	18-6	18-9	18-11	19-2	19-4	19-7
450.00	19-10	20-1	20-4	20-6	20-9	21-0	21-3	21-6	21-9	21-11
475.00	22-1	22-4	22-7	22-11	23-2	23-5	23-8	23-11	24-2	24-6
500.00	24-6	24-9	25-1	25-4	25-8	26-0	26-3	26-7	26-10	27-1

Stringing Sag Table Using Final Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-11	4-0	4-0	4-1	4-2	4-2	4-3	4-3	4-4	4-4
225.00	5-0	5-1	5-1	5-2	5-3	5-4	5-4	5-5	5-5	5-6
250.00	6-2	6-3	6-4	6-5	6-6	6-6	6-7	6-8	6-9	6-9
275.00	7-5	7-6	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3
300.00	8-10	9-0	9-1	9-2	9-4	9-5	9-6	9-7	9-8	9-9
325.00	10-5	10-6	10-8	10-10	10-11	11-1	11-2	11-4	11-5	11-6
350.00	12-1	12-3	12-4	12-6	12-8	12-10	13-0	13-1	13-3	13-4
375.00	13-10	14-0	14-3	14-5	14-7	14-9	14-11	15-1	15-2	15-3
400.00	15-9	16-0	16-2	16-4	16-7	16-9	16-11	17-2	17-3	17-5
425.00	17-10	18-0	18-3	18-6	18-8	18-11	19-2	19-4	19-6	19-8
450.00	20-0	20-3	20-6	20-9	21-0	21-3	21-5	21-8	21-11	22-0
475.00	22-3	22-7	22-10	23-1	23-4	23-8	23-11	24-2	24-5	24-7
500.00	24-8	25-0	25-4	25-7	25-11	26-3	26-6	26-10	27-0	27-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 65 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.65
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-2	6-3	6-3	6-4	6-4	6-5	6-5	6-6	6-7	6-7
275.00	7-6	7-6	7-7	7-8	7-8	7-9	7-10	7-10	7-11	8-0
300.00	8-11	8-11	9-0	9-1	9-2	9-3	9-4	9-4	9-5	9-6
325.00	10-5	10-6	10-7	10-8	10-9	10-10	10-11	11-0	11-1	11-2
350.00	12-1	12-2	12-3	12-5	12-6	12-7	12-8	12-9	12-10	12-11
375.00	13-11	14-0	14-1	14-3	14-4	14-5	14-6	14-8	14-9	14-10
400.00	15-10	15-11	16-1	16-2	16-4	16-5	16-7	16-8	16-9	16-11
425.00	17-10	18-0	18-2	18-3	18-5	18-7	18-8	18-10	18-11	19-1
450.00	20-0	20-2	20-4	20-6	20-8	20-10	20-11	21-1	21-3	21-5
475.00	22-4	22-6	22-8	22-10	23-0	23-2	23-4	23-6	23-8	23-10
500.00	24-9	24-11	25-2	25-4	25-6	25-8	25-11	26-1	26-3	26-5
525.00	27-3	27-6	27-9	27-11	28-2	28-4	28-7	28-9	29-0	29-2
550.00	29-11	30-2	30-5	30-8	30-11	31-1	31-4	31-7	31-10	32-0
575.00	32-9	33-0	33-3	33-6	33-9	34-0	34-3	34-6	34-9	35-0
600.00	35-8	35-11	36-3	36-6	36-10	37-1	37-4	37-7	37-11	38-2
625.00	38-9	39-0	39-4	39-8	39-11	40-3	40-6	40-10	41-2	41-5

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SHEET 66 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.66
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS					

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.591	20.01	2500	20.01	2500*
0	0	0	0	0.52	19	860	18.8	869
30	0	0	0	0.52	19.77	827	19.54	837
40	0	0	0	0.52	20.02	817	19.78	827
50	0	0	0	0.52	20.26	807	20.02	817
60	0	0	0	0.52	20.51	798	20.26	807
70	0	0	0	0.52	20.75	789	20.5	798
80	0	0	0	0.52	20.98	780	20.73	789
90	0	0	0	0.52	21.22	771	20.96	781
100	0	0	0	0.52	21.45	763	21.19	772
110	0	0	0	0.52	21.63	757	21.41	764
120	0	0	0	0.52	21.78	752	21.64	757
130	0	0	0	0.52	21.93	747	21.86	749
167	0	0	0	0.52	22.47	729	22.47	729
212	0	0	0	0.52	23.11	709	23.11	709

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>69 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	<input checked="" type="checkbox"/> New Page	Information Removed	<div style="text-align: center;"> <p>OH811.69</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 2500 LBS</p> </div>				

Completely Revised

Completely Revised

	X
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New Page

Information Removed

DESIGN TABLES: 500' RULING SPAN G095 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.69

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11
100.00	0-5	0-6	0-8	0-10	0-11	1-1	1-3	1-4	1-6	1-7
125.00	0-8	0-10	1-0	1-3	1-6	1-8	1-11	2-1	2-4	2-5
150.00	1-0	1-3	1-6	1-10	2-2	2-5	2-9	3-1	3-4	3-6
175.00	1-4	1-8	2-0	2-5	2-11	3-4	3-9	4-2	4-7	4-9
200.00	1-9	2-2	2-8	3-2	3-9	4-4	4-11	5-5	5-11	6-3

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11
100.00	0-6	0-8	0-10	0-11	1-1	1-3	1-4	1-5	1-6	1-7
125.00	0-10	1-0	1-3	1-6	1-9	1-11	2-1	2-3	2-4	2-5
150.00	1-2	1-5	1-10	2-2	2-6	2-10	3-0	3-2	3-4	3-6
175.00	1-7	2-0	2-5	2-11	3-5	3-10	4-1	4-4	4-7	4-9
200.00	2-1	2-7	3-2	3-10	4-5	5-0	5-4	5-8	5-11	6-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 70 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.70
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-8	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1
125.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8
150.00	1-5	1-7	1-8	1-10	1-11	2-0	2-2	2-3	2-4	2-5
175.00	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-0	3-2	3-4
200.00	2-6	2-9	3-0	3-2	3-5	3-7	3-9	4-0	4-2	4-4
225.00	3-3	3-6	3-9	4-0	4-4	4-7	4-10	5-0	5-3	5-6
250.00	4-0	4-4	4-8	5-0	5-4	5-7	5-11	6-2	6-6	6-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-1
125.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-8	1-9
150.00	1-6	1-8	1-10	1-11	2-0	2-2	2-3	2-4	2-5	2-6
175.00	2-1	2-3	2-5	2-7	2-9	2-11	3-1	3-2	3-3	3-4
200.00	2-9	3-0	3-2	3-5	3-7	3-10	4-0	4-2	4-3	4-5
225.00	3-5	3-9	4-0	4-4	4-7	4-10	5-1	5-3	5-5	5-7
250.00	4-3	4-8	5-0	5-4	5-8	5-11	6-3	6-6	6-8	6-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>71 OF 360</div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH811.71	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-7	1-8	1-9	1-10	1-10	1-11	2-0	2-0	2-1	2-1
175.00	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
200.00	2-11	3-0	3-1	3-2	3-3	3-5	3-6	3-7	3-8	3-9
225.00	3-8	3-9	3-11	4-0	4-2	4-3	4-5	4-6	4-8	4-9
250.00	4-6	4-8	4-10	5-0	5-2	5-4	5-5	5-7	5-9	5-10
275.00	5-5	5-8	5-10	6-0	6-3	6-5	6-7	6-9	6-11	7-1
300.00	6-6	6-9	6-11	7-2	7-5	7-8	7-10	8-1	8-3	8-6
325.00	7-7	7-11	8-2	8-5	8-8	8-11	9-2	9-5	9-8	9-11
350.00	8-10	9-2	9-6	9-9	10-1	10-5	10-8	11-0	11-3	11-6
375.00	10-1	10-6	10-10	11-3	11-7	11-11	12-3	12-7	12-11	13-3

Stringing Sag Table Using Final Sag							Ruling Span:		300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-8	1-9	1-10	1-10	1-11	2-0	2-0	2-1	2-1	2-2
175.00	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-11
200.00	3-0	3-1	3-2	3-4	3-5	3-6	3-7	3-8	3-9	3-10
225.00	3-9	3-11	4-0	4-2	4-4	4-5	4-7	4-8	4-9	4-10
250.00	4-8	4-10	5-0	5-2	5-4	5-5	5-7	5-9	5-11	6-0
275.00	5-7	5-10	6-0	6-3	6-5	6-7	6-9	7-0	7-1	7-3
300.00	6-8	6-11	7-2	7-5	7-8	7-10	8-1	8-4	8-6	8-7
325.00	7-10	8-2	8-5	8-8	9-0	9-3	9-6	9-9	9-11	10-1
350.00	9-1	9-5	9-9	10-1	10-5	10-8	11-0	11-3	11-6	11-8
375.00	10-5	10-10	11-3	11-7	11-11	12-3	12-8	13-0	13-3	13-5

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 72 OF 360		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH811.72
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS											

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-10	4-11	4-11	5-0	5-1	5-1	5-2	5-3	5-3	5-4
275.00	5-10	5-11	6-0	6-1	6-1	6-2	6-3	6-4	6-5	6-6
300.00	6-11	7-0	7-1	7-2	7-3	7-4	7-5	7-6	7-7	7-8
325.00	8-2	8-3	8-4	8-5	8-7	8-8	8-9	8-10	8-11	9-0
350.00	9-5	9-7	9-8	9-10	9-11	10-0	10-2	10-3	10-4	10-6
375.00	10-10	11-0	11-1	11-3	11-5	11-6	11-8	11-9	11-11	12-0
400.00	12-4	12-6	12-8	12-10	12-11	13-1	13-3	13-5	13-7	13-8
425.00	13-11	14-1	14-3	14-5	14-8	14-10	15-0	15-2	15-4	15-6
450.00	15-7	15-10	16-0	16-3	16-5	16-7	16-9	17-0	17-2	17-4
475.00	17-5	17-8	17-10	18-1	18-3	18-6	18-8	18-11	19-1	19-4
500.00	19-4	19-6	19-9	20-0	20-3	20-6	20-9	21-0	21-2	21-5
525.00	21-3	21-7	21-10	22-1	22-4	22-7	22-10	23-1	23-4	23-7
550.00	23-4	23-8	23-11	24-3	24-6	24-10	25-1	25-4	25-8	25-11
575.00	25-6	25-10	26-2	26-6	26-10	27-1	27-5	27-9	28-1	28-4
600.00	27-10	28-2	28-6	28-10	29-2	29-7	29-11	30-3	30-7	30-10
625.00	30-2	30-7	30-11	31-4	31-8	32-1	32-5	32-9	33-2	33-6

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-10	4-11	5-0	5-1	5-1	5-2	5-3	5-4	5-4	5-5
275.00	5-11	6-0	6-1	6-1	6-2	6-3	6-4	6-5	6-6	6-6
300.00	7-0	7-1	7-2	7-3	7-4	7-5	7-7	7-8	7-9	7-9
325.00	8-3	8-4	8-5	8-7	8-8	8-9	8-10	8-11	9-1	9-2
350.00	9-7	9-8	9-10	9-11	10-0	10-2	10-3	10-5	10-6	10-7
375.00	11-0	11-1	11-3	11-5	11-6	11-8	11-9	11-11	12-1	12-2
400.00	12-6	12-8	12-10	12-11	13-1	13-3	13-5	13-7	13-9	13-10
425.00	14-1	14-3	14-5	14-8	14-10	15-0	15-2	15-4	15-6	15-7
450.00	15-10	16-0	16-2	16-5	16-7	16-10	17-0	17-2	17-4	17-6
475.00	17-7	17-10	18-1	18-3	18-6	18-9	18-11	19-2	19-4	19-6
500.00	19-6	19-9	20-0	20-3	20-6	20-9	21-0	21-3	21-5	21-8
525.00	21-6	21-10	22-1	22-4	22-7	22-11	23-2	23-5	23-8	23-10
550.00	23-7	23-11	24-3	24-6	24-10	25-1	25-5	25-8	26-0	26-2
575.00	25-10	26-2	26-6	26-10	27-2	27-5	27-9	28-1	28-5	28-8
600.00	28-2	28-6	28-10	29-2	29-7	29-11	30-3	30-7	30-11	31-2
625.00	30-6	30-11	31-4	31-8	32-1	32-5	32-10	33-2	33-7	33-10

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>74 OF 360</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.74
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS									

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.591	5.98	3000	5.98	3000*
0	0	0	0	0.52	4.57	1281	4.29	1366
30	0	0	0	0.52	5.47	1070	5.15	1137
40	0	0	0	0.52	5.76	1018	5.43	1079
50	0	0	0	0.52	6.03	971	5.7	1028
60	0	0	0	0.52	6.3	931	5.96	983
70	0	0	0	0.52	6.56	894	6.22	943
80	0	0	0	0.52	6.81	861	6.47	906
90	0	0	0	0.52	7.05	832	6.71	874
100	0	0	0	0.52	7.29	805	6.95	844
110	0	0	0	0.52	7.43	790	7.18	817
120	0	0	0	0.52	7.57	775	7.41	792
130	0	0	0	0.52	7.7	761	7.63	769
167	0	0	0	0.52	8.21	715	8.21	715
212	0	0	0	0.52	8.79	668	8.79	668

* Design Condition

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.591	10.64	3000	10.64	3000*
0	0	0	0	0.52	9.19	1134	8.88	1174
30	0	0	0	0.52	10.12	1031	9.78	1066
40	0	0	0	0.52	10.41	1002	10.06	1036
50	0	0	0	0.52	10.7	975	10.34	1008
60	0	0	0	0.52	10.98	950	10.62	982
70	0	0	0	0.52	11.25	927	10.89	958
80	0	0	0	0.52	11.52	906	11.16	935
90	0	0	0	0.52	11.79	886	11.42	914
100	0	0	0	0.52	12.04	867	11.68	894
110	0	0	0	0.52	12.26	851	11.93	875
120	0	0	0	0.52	12.42	841	12.18	857
130	0	0	0	0.52	12.57	830	12.42	840
167	0	0	0	0.52	13.14	795	13.14	795
212	0	0	0	0.52	13.81	757	13.81	757

* Design Condition

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 76 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.76
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.591	16.65	3000	16.65	3000*
0	0	0	0	0.52	15.19	1073	14.87	1096
30	0	0	0	0.52	16.12	1013	15.77	1035
40	0	0	0	0.52	16.41	994	16.06	1016
50	0	0	0	0.52	16.71	977	16.35	998
60	0	0	0	0.52	17	961	16.63	981
70	0	0	0	0.52	17.28	945	16.91	965
80	0	0	0	0.52	17.56	930	17.19	950
90	0	0	0	0.52	17.84	916	17.46	935
100	0	0	0	0.52	18.11	902	17.73	921
110	0	0	0	0.52	18.38	889	17.99	908
120	0	0	0	0.52	18.55	881	18.25	895
130	0	0	0	0.52	18.72	873	18.51	883
167	0	0	0	0.52	19.33	846	19.33	846
212	0	0	0	0.52	20.06	815	20.06	815

* Design Condition

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div>SHEET</div> <div>77 OF 360</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.77
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS					

Completely Revised



Information Removed

DESIGN TABLES: 500' RULING SPAN G095 HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.77

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9
100.00	0-4	0-4	0-5	0-6	0-8	0-10	0-11	1-1	1-3	1-4
125.00	0-6	0-7	0-8	0-10	1-0	1-3	1-6	1-8	1-11	2-1
150.00	0-8	0-10	1-0	1-2	1-6	1-9	2-1	2-5	2-9	3-0
175.00	1-0	1-2	1-4	1-8	2-0	2-5	2-11	3-4	3-9	4-1
200.00	1-3	1-6	1-9	2-2	2-7	3-2	3-9	4-4	4-11	5-5

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-4	0-5	0-6	0-7	0-8	0-8	0-9	0-9
100.00	0-4	0-5	0-7	0-8	0-10	1-0	1-1	1-2	1-3	1-4
125.00	0-7	0-8	0-10	1-1	1-4	1-7	1-9	1-10	2-0	2-1
150.00	0-10	1-0	1-3	1-7	1-11	2-3	2-6	2-8	2-10	3-0
175.00	1-1	1-4	1-8	2-2	2-7	3-1	3-5	3-8	3-11	4-1
200.00	1-5	1-9	2-3	2-9	3-5	4-0	4-6	4-9	5-1	5-5

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 78 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.78
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING 397.5 - 26/7 ACSR/AWTENSION 3000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-10	0-11
125.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
150.00	1-0	1-1	1-3	1-4	1-6	1-7	1-9	1-10	2-0	2-1
175.00	1-4	1-6	1-8	1-10	2-0	2-2	2-4	2-6	2-8	2-10
200.00	1-9	1-11	2-2	2-5	2-8	2-10	3-1	3-3	3-6	3-8
225.00	2-2	2-6	2-9	3-1	3-4	3-7	3-11	4-2	4-5	4-8
250.00	2-9	3-1	3-5	3-9	4-2	4-6	4-10	5-2	5-5	5-9

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11	0-11	0-11
125.00	0-9	0-10	1-0	1-1	1-2	1-3	1-4	1-5	1-5	1-6
150.00	1-1	1-3	1-5	1-6	1-8	1-9	1-11	2-0	2-1	2-2
175.00	1-6	1-8	1-11	2-1	2-3	2-5	2-7	2-9	2-10	2-11
200.00	2-0	2-3	2-6	2-8	2-11	3-2	3-5	3-7	3-8	3-10
225.00	2-6	2-10	3-1	3-5	3-9	4-0	4-3	4-6	4-8	4-10
250.00	3-1	3-5	3-10	4-3	4-7	4-11	5-3	5-7	5-9	6-0

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 79 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.79
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-3	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-9	1-10
175.00	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5
200.00	2-2	2-3	2-5	2-6	2-8	2-9	2-10	3-0	3-1	3-2
225.00	2-9	2-11	3-1	3-2	3-4	3-6	3-8	3-9	3-11	4-0
250.00	3-5	3-7	3-9	3-11	4-2	4-4	4-6	4-8	4-10	5-0
275.00	4-1	4-4	4-7	4-9	5-0	5-3	5-5	5-8	5-10	6-0
300.00	4-10	5-2	5-5	5-8	6-0	6-3	6-6	6-9	6-11	7-2
325.00	5-9	6-1	6-4	6-8	7-0	7-4	7-7	7-11	8-2	8-5
350.00	6-8	7-0	7-5	7-9	8-1	8-6	8-10	9-2	9-6	9-9
375.00	7-7	8-1	8-6	8-11	9-4	9-9	10-1	10-6	10-10	11-3

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-4	1-4	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-10
175.00	1-9	1-10	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-6
200.00	2-4	2-5	2-7	2-8	2-10	2-11	3-0	3-2	3-3	3-4
225.00	2-11	3-1	3-3	3-5	3-6	3-8	3-10	4-0	4-1	4-2
250.00	3-7	3-10	4-0	4-2	4-4	4-7	4-9	4-11	5-1	5-2
275.00	4-4	4-7	4-10	5-1	5-3	5-6	5-9	5-11	6-1	6-3
300.00	5-2	5-6	5-9	6-0	6-4	6-7	6-10	7-1	7-3	7-5
325.00	6-1	6-5	6-9	7-1	7-5	7-8	8-0	8-3	8-7	8-9
350.00	7-1	7-5	7-10	8-3	8-7	8-11	9-3	9-7	9-11	10-1
375.00	8-1	8-7	9-0	9-5	9-10	10-3	10-8	11-0	11-5	11-7

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 80 OF 360	<div style="color: orange;">Indicates Latest Revision</div>		Completely Revised	X	New Page	Information Removed	OH811.80
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS						

Stringing Sag Table Using Initial Sag							Ruling Span: 400.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-4	2-5	2-6	2-7	2-8	2-9	2-9	2-10	2-11	3-0
225.00	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
250.00	3-8	3-10	3-11	4-0	4-2	4-3	4-4	4-5	4-7	4-8
275.00	4-6	4-7	4-9	4-11	5-0	5-2	5-3	5-5	5-6	5-8
300.00	5-4	5-6	5-8	5-10	6-0	6-1	6-3	6-5	6-7	6-8
325.00	6-3	6-5	6-8	6-10	7-0	7-2	7-4	7-6	7-8	7-10
350.00	7-3	7-6	7-8	7-11	8-2	8-4	8-6	8-9	8-11	9-2
375.00	8-4	8-7	8-10	9-1	9-4	9-7	9-10	10-0	10-3	10-6
400.00	9-6	9-9	10-1	10-4	10-7	10-11	11-2	11-5	11-8	11-11
425.00	10-8	11-0	11-4	11-8	12-0	12-4	12-7	12-11	13-2	13-6
450.00	12-0	12-4	12-9	13-1	13-5	13-9	14-2	14-5	14-9	15-1
475.00	13-5	13-9	14-2	14-7	15-0	15-4	15-9	16-1	16-6	16-10
500.00	14-10	15-3	15-9	16-2	16-7	17-0	17-5	17-10	18-3	18-8

Stringing Sag Table Using Final Sag							Ruling Span: 400.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-11	3-0	3-1
225.00	3-1	3-2	3-3	3-5	3-6	3-7	3-8	3-9	3-10	3-11
250.00	3-10	3-11	4-1	4-2	4-3	4-5	4-6	4-7	4-8	4-9
275.00	4-8	4-9	4-11	5-1	5-2	5-4	5-5	5-7	5-8	5-9
300.00	5-6	5-8	5-10	6-0	6-2	6-4	6-6	6-8	6-9	6-11
325.00	6-6	6-8	6-10	7-1	7-3	7-5	7-7	7-9	7-11	8-1
350.00	7-6	7-9	8-0	8-2	8-5	8-7	8-10	9-0	9-3	9-5
375.00	8-8	8-11	9-2	9-5	9-8	9-11	10-1	10-4	10-7	10-9
400.00	9-10	10-1	10-5	10-8	11-0	11-3	11-6	11-9	12-1	12-3
425.00	11-1	11-5	11-9	12-1	12-5	12-8	13-0	13-4	13-7	13-10
450.00	12-5	12-10	13-2	13-6	13-11	14-3	14-7	14-11	15-3	15-6
475.00	13-10	14-3	14-8	15-1	15-6	15-10	16-3	16-8	17-0	17-4
500.00	15-4	15-10	16-3	16-9	17-2	17-7	18-0	18-5	18-10	19-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>81 OF 360</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.81
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	3.904	20.33	1000	20.33	1000*
0	0	0	0	0.52	20.22	134	20.2	134
30	0	0	0	0.52	20.37	133	20.34	133
40	0	0	0	0.52	20.41	133	20.39	133
50	0	0	0	0.52	20.45	132	20.43	133
60	0	0	0	0.52	20.47	132	20.47	132
70	0	0	0	0.52	20.5	132	20.5	132
80	0	0	0	0.52	20.53	132	20.53	132
90	0	0	0	0.52	20.56	132	20.56	132
100	0	0	0	0.52	20.58	132	20.58	132
110	0	0	0	0.52	20.61	132	20.61	132
120	0	0	0	0.52	20.64	131	20.64	131
130	0	0	0	0.52	20.67	131	20.67	131
167	0	0	0	0.52	20.77	131	20.77	131
212	0	0	0	0.52	20.89	130	20.89	130
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>83 OF 360</h2> </div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH811.83	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN SDGE EXTRA HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	3.904	96.53	1000	96.53	1000*
0	0	0	0	0.52	96.43	133	96.4	133
30	0	0	0	0.52	96.57	133	96.55	133
40	0	0	0	0.52	96.61	133	96.59	133
50	0	0	0	0.52	96.65	133	96.63	133
60	0	0	0	0.52	96.67	133	96.67	133
70	0	0	0	0.52	96.7	133	96.7	133
80	0	0	0	0.52	96.73	133	96.73	133
90	0	0	0	0.52	96.75	133	96.75	133
100	0	0	0	0.52	96.78	133	96.78	133
110	0	0	0	0.52	96.81	133	96.81	133
120	0	0	0	0.52	96.83	133	96.83	133
130	0	0	0	0.52	96.86	133	96.86	133
167	0	0	0	0.52	96.96	133	96.96	133
212	0	0	0	0.52	97.08	133	97.08	133

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div>SHEET</div> <div>84 OF 360</div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	OH811.84
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	DESIGN TABLES: 300' & 400' RULING SPAN SDGE EXTRA HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS						

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	5- 0	5- 0	5- 1	5- 1	5- 1	5- 1	5- 1	5- 1	5- 1	5- 1
125.00	7-10	7-11	7-11	7-11	7-11	7-11	7-11	8- 0	8- 0	8- 0
150.00	11- 4	11- 5	11- 5	11- 5	11- 5	11- 6	11- 6	11- 6	11- 6	11- 6
175.00	15- 6	15- 6	15- 7	15- 7	15- 7	15- 8	15- 8	15- 8	15- 9	15- 9
200.00	20- 4	20- 4	20- 5	20- 5	20- 6	20- 6	20- 6	20- 7	20- 7	20- 7
225.00	25- 9	25-10	25-11	25-11	26- 0	26- 1	26- 1	26- 1	26- 2	26- 2
250.00	31-11	32- 0	32- 1	32- 2	32- 3	32- 3	32- 4	32- 4	32- 5	32- 5

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	5- 0	5- 0	5- 1	5- 1	5- 1	5- 1	5- 1	5- 1	5- 1	5- 1
125.00	7-10	7-11	7-11	7-11	7-11	7-11	7-11	8- 0	8- 0	8- 0
150.00	11- 4	11- 5	11- 5	11- 5	11- 5	11- 6	11- 6	11- 6	11- 6	11- 6
175.00	15- 6	15- 7	15- 7	15- 7	15- 8	15- 8	15- 8	15- 8	15- 9	15- 9
200.00	20- 4	20- 4	20- 5	20- 5	20- 6	20- 6	20- 6	20- 7	20- 7	20- 7
225.00	25-10	25-10	25-11	26- 0	26- 0	26- 1	26- 1	26- 1	26- 2	26- 2
250.00	32- 0	32- 1	32- 2	32- 2	32- 3	32- 3	32- 4	32- 4	32- 5	32- 5

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div>SHEET</div> <div>86 OF 360</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.86
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	11-10	11-10	11-10	11-10	11-11	11-11	11-11	11-11	11-11	11-11
175.00	16- 2	16- 2	16- 2	16- 2	16- 3	16- 3	16- 3	16- 3	16- 3	16- 3
200.00	21- 2	21- 2	21- 3	21- 3	21- 3	21- 3	21- 3	21- 3	21- 4	21- 4
225.00	26-11	26-11	26-11	27- 0	27- 0	27- 0	27- 0	27- 1	27- 1	27- 1
250.00	33- 4	33- 5	33- 5	33- 5	33- 6	33- 6	33- 6	33- 6	33- 7	33- 7
275.00	40- 7	40- 7	40- 8	40- 8	40- 8	40- 9	40- 9	40- 9	40-10	40-10
300.00	48- 6	48- 7	48- 7	48- 8	48- 8	48- 9	48- 9	48- 9	48-10	48-10
325.00	57- 3	57- 4	57- 5	57- 5	57- 6	57- 6	57- 7	57- 7	57- 7	57- 8
350.00	66-10	66-11	66-11	67- 0	67- 1	67- 1	67- 2	67- 2	67- 3	67- 3
375.00	77- 2	77- 3	77- 4	77- 5	77- 6	77- 7	77- 7	77- 8	77- 8	77- 9

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	11-10	11-10	11-10	11-10	11-11	11-11	11-11	11-11	11-11	11-11
175.00	16- 2	16- 2	16- 2	16- 3	16- 3	16- 3	16- 3	16- 3	16- 3	16- 3
200.00	21- 2	21- 2	21- 3	21- 3	21- 3	21- 3	21- 3	21- 3	21- 4	21- 4
225.00	26-11	26-11	27- 0	27- 0	27- 0	27- 0	27- 0	27- 1	27- 1	27- 1
250.00	33- 5	33- 5	33- 5	33- 6	33- 6	33- 6	33- 6	33- 6	33- 7	33- 7
275.00	40- 7	40- 7	40- 8	40- 8	40- 8	40- 9	40- 9	40- 9	40-10	40-10
300.00	48- 7	48- 7	48- 8	48- 8	48- 8	48- 9	48- 9	48- 9	48-10	48-10
325.00	57- 4	57- 4	57- 5	57- 5	57- 6	57- 6	57- 7	57- 7	57- 7	57- 8
350.00	66-10	66-11	67- 0	67- 0	67- 1	67- 1	67- 2	67- 2	67- 3	67- 3
375.00	77- 3	77- 4	77- 5	77- 5	77- 6	77- 7	77- 7	77- 8	77- 8	77- 9

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div>SHEET</div> <div>87 OF 360</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.87
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS					

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 89 OF 360		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH811.89
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 100' & 200' RULING SPAN SDGE EXTRA HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS											

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>90 OF 360</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH811.90
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN SDGE EXTRA HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	3.904	92.59	1500	92.59	1500*
0	0	0	0	0.52	92.39	200	92.33	200
30	0	0	0	0.52	92.58	200	92.55	200
40	0	0	0	0.52	92.65	200	92.61	200
50	0	0	0	0.52	92.71	200	92.67	200
60	0	0	0	0.52	92.75	200	92.73	200
70	0	0	0	0.52	92.79	199	92.79	200
80	0	0	0	0.52	92.83	199	92.83	199
90	0	0	0	0.52	92.87	199	92.87	199
100	0	0	0	0.52	92.91	199	92.91	199
110	0	0	0	0.52	92.95	199	92.95	199
120	0	0	0	0.52	92.99	199	92.99	199
130	0	0	0	0.52	93.04	199	93.04	199
167	0	0	0	0.52	93.19	199	93.19	199
212	0	0	0	0.52	93.37	199	93.37	199

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

Indicates Latest Revision	Completely Revised	X	New Page	Information Removed
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDGE EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.91

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-9	1-10	1-10	1-11	1-11	1-11	2-0	2-0	2-0	2-0
100.00	3-2	3-3	3-3	3-4	3-5	3-6	3-6	3-6	3-7	3-7
125.00	4-11	5-0	5-2	5-3	5-4	5-5	5-6	5-6	5-7	5-8
150.00	7-1	7-3	7-5	7-6	7-8	7-10	7-11	8-0	8-1	8-2
175.00	9-8	9-11	10-1	10-3	10-5	10-8	10-9	10-10	11-0	11-1
200.00	12-8	12-11	13-2	13-5	13-8	13-11	14-1	14-3	14-4	14-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-10	1-10	1-10	1-11	1-11	1-11	2-0	2-0	2-0	2-0
100.00	3-2	3-3	3-4	3-5	3-5	3-6	3-6	3-6	3-7	3-7
125.00	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-6	5-7	5-8
150.00	7-3	7-4	7-6	7-7	7-9	7-10	7-11	8-0	8-1	8-2
175.00	9-10	10-0	10-2	10-5	10-6	10-8	10-9	10-10	11-0	11-1
200.00	12-10	13-1	13-4	13-7	13-9	13-11	14-1	14-3	14-4	14-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 92 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.92
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-3	3-3	3-4	3-4	3-4	3-4	3-4	3-4	3-5	3-5
125.00	5-1	5-2	5-2	5-2	5-2	5-3	5-3	5-3	5-3	5-4
150.00	7-4	7-5	7-5	7-6	7-6	7-6	7-7	7-7	7-7	7-8
175.00	10-0	10-1	10-2	10-2	10-3	10-3	10-4	10-4	10-4	10-5
200.00	13-1	13-2	13-3	13-4	13-5	13-5	13-6	13-6	13-7	13-7
225.00	16-8	16-9	16-10	16-11	16-11	17-0	17-1	17-2	17-2	17-3
250.00	20-7	20-8	20-9	20-11	21-0	21-1	21-2	21-2	21-3	21-4

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-3	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-5	3-5
125.00	5-2	5-2	5-2	5-2	5-3	5-3	5-3	5-3	5-3	5-4
150.00	7-5	7-5	7-6	7-6	7-6	7-6	7-7	7-7	7-7	7-8
175.00	10-1	10-1	10-2	10-3	10-3	10-3	10-4	10-4	10-4	10-5
200.00	13-2	13-3	13-4	13-4	13-5	13-5	13-6	13-6	13-7	13-7
225.00	16-8	16-9	16-10	16-11	17-0	17-0	17-1	17-2	17-2	17-3
250.00	20-8	20-9	20-10	20-11	21-0	21-1	21-2	21-2	21-3	21-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 93 OF 360		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH811.93
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS											

Stringing Sag Table Using Initial Sag							Ruling Span: 300.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	7-6	7-6	7-7	7-7	7-7	7-7	7-7	7-7	7-8	7-8
175.00	10-3	10-3	10-3	10-4	10-4	10-4	10-4	10-5	10-5	10-5
200.00	13-5	13-5	13-6	13-6	13-6	13-6	13-7	13-7	13-7	13-7
225.00	17-0	17-0	17-1	17-1	17-2	17-2	17-2	17-3	17-3	17-3
250.00	21-0	21-1	21-1	21-2	21-2	21-3	21-3	21-3	21-4	21-4
275.00	25-6	25-6	25-7	25-8	25-8	25-9	25-9	25-10	25-10	25-10
300.00	30-4	30-5	30-6	30-7	30-8	30-8	30-9	30-9	30-10	30-10
325.00	35-9	35-10	35-11	36-0	36-0	36-1	36-2	36-2	36-3	36-4
350.00	41-6	41-8	41-9	41-10	41-11	42-0	42-0	42-1	42-2	42-3
375.00	47-10	47-11	48-0	48-2	48-3	48-4	48-5	48-5	48-6	48-7

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	7-6	7-7	7-7	7-7	7-7	7-7	7-7	7-7	7-8	7-8
175.00	10-3	10-3	10-4	10-4	10-4	10-4	10-4	10-5	10-5	10-5
200.00	13-5	13-5	13-6	13-6	13-6	13-6	13-7	13-7	13-7	13-7
225.00	17-0	17-1	17-1	17-1	17-2	17-2	17-2	17-3	17-3	17-3
250.00	21-0	21-1	21-2	21-2	21-2	21-3	21-3	21-3	21-4	21-4
275.00	25-6	25-7	25-7	25-8	25-8	25-9	25-9	25-10	25-10	25-10
300.00	30-5	30-6	30-7	30-7	30-8	30-8	30-9	30-9	30-10	30-10
325.00	35-9	35-10	35-11	36-0	36-1	36-1	36-2	36-2	36-3	36-4
350.00	41-7	41-8	41-9	41-10	41-11	42-0	42-0	42-1	42-2	42-3
375.00	47-11	48-0	48-1	48-2	48-3	48-4	48-5	48-5	48-6	48-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>94 OF 360</h2> </div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.94
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	13-9	13-9	13-9	13-10	13-10	13-10	13-10	13-10	13-10	13-10
225.00	17-5	17-6	17-6	17-6	17-6	17-6	17-7	17-7	17-7	17-7
250.00	21-7	21-7	21-7	21-8	21-8	21-8	21-8	21-9	21-9	21-9
275.00	26-2	26-2	26-3	26-3	26-3	26-4	26-4	26-4	26-4	26-4
300.00	31-2	31-3	31-3	31-4	31-4	31-4	31-5	31-5	31-5	31-5
325.00	36-8	36-9	36-9	36-10	36-10	36-11	36-11	36-11	37-0	37-0
350.00	42-8	42-9	42-9	42-10	42-10	42-11	42-11	43-0	43-0	43-0
375.00	49-2	49-2	49-3	49-4	49-4	49-5	49-5	49-6	49-6	49-7
400.00	56-1	56-2	56-2	56-3	56-4	56-5	56-5	56-6	56-6	56-7
425.00	63-6	63-7	63-8	63-9	63-9	63-10	63-11	63-11	64-0	64-1
450.00	71-5	71-6	71-7	71-8	71-9	71-10	71-11	71-11	72-0	72-1
475.00	79-10	80-0	80-1	80-2	80-3	80-4	80-5	80-5	80-6	80-7
500.00	88-10	88-11	89-1	89-2	89-3	89-4	89-5	89-6	89-7	89-7

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	13-9	13-9	13-10	13-10	13-10	13-10	13-10	13-10	13-10	13-10
225.00	17-5	17-6	17-6	17-6	17-6	17-6	17-7	17-7	17-7	17-7
250.00	21-7	21-7	21-8	21-8	21-8	21-8	21-8	21-9	21-9	21-9
275.00	26-2	26-2	26-3	26-3	26-3	26-4	26-4	26-4	26-4	26-4
300.00	31-3	31-3	31-3	31-4	31-4	31-4	31-5	31-5	31-5	31-5
325.00	36-9	36-9	36-10	36-10	36-11	36-11	36-11	36-11	37-0	37-0
350.00	42-9	42-9	42-10	42-10	42-11	42-11	42-11	43-0	43-0	43-0
375.00	49-2	49-3	49-3	49-4	49-4	49-5	49-5	49-6	49-6	49-7
400.00	56-1	56-2	56-3	56-4	56-4	56-5	56-5	56-6	56-6	56-7
425.00	63-7	63-7	63-8	63-9	63-10	63-10	63-11	63-11	64-0	64-1
450.00	71-6	71-7	71-8	71-9	71-9	71-10	71-11	71-11	72-0	72-1
475.00	79-11	80-0	80-1	80-2	80-3	80-4	80-5	80-5	80-6	80-7
500.00	88-11	89-0	89-1	89-2	89-3	89-4	89-5	89-6	89-7	89-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>95 OF 360</div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH811.95
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	3.904	40.65	2000	40.65	2000*
0	0	0	0	0.52	40.31	268	40.21	269
30	0	0	0	0.52	40.56	267	40.5	267
40	0	0	0	0.52	40.64	266	40.58	267
50	0	0	0	0.52	40.73	266	40.66	266
60	0	0	0	0.52	40.78	266	40.74	266
70	0	0	0	0.52	40.84	265	40.81	265
80	0	0	0	0.52	40.89	265	40.89	265
90	0	0	0	0.52	40.95	265	40.95	265
100	0	0	0	0.52	41.01	264	41.01	264
110	0	0	0	0.52	41.06	264	41.06	264
120	0	0	0	0.52	41.12	264	41.12	264
130	0	0	0	0.52	41.17	263	41.17	263
167	0	0	0	0.52	41.37	262	41.37	262
212	0	0	0	0.52	41.61	261	41.61	261

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>98 OF 360</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH811.98
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN SDGE EXTRA HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	3.904	65.16	2000	65.16	2000*
0	0	0	0	0.52	64.82	268	64.71	268
30	0	0	0	0.52	65.07	267	65	267
40	0	0	0	0.52	65.15	266	65.08	267
50	0	0	0	0.52	65.23	266	65.16	266
60	0	0	0	0.52	65.29	266	65.24	266
70	0	0	0	0.52	65.34	266	65.32	266
80	0	0	0	0.52	65.4	266	65.4	266
90	0	0	0	0.52	65.46	265	65.46	265
100	0	0	0	0.52	65.51	265	65.51	265
110	0	0	0	0.52	65.57	265	65.57	265
120	0	0	0	0.52	65.62	265	65.62	265
130	0	0	0	0.52	65.67	265	65.67	265
167	0	0	0	0.52	65.88	264	65.88	264
212	0	0	0	0.52	66.12	263	66.12	263
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>99 OF 360</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH811.99
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN SDGE EXTRA HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-3	1-3	1-4	1-5	1-5	1-6	1-6	1-6	1-7	1-7
100.00	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-9	2-10
125.00	3-5	3-7	3-8	3-10	3-11	4-1	4-2	4-3	4-4	4-5
150.00	4-11	5-2	5-4	5-6	5-8	5-10	6-0	6-1	6-3	6-4
175.00	6-9	7-0	7-3	7-6	7-9	8-0	8-2	8-4	8-6	8-8
200.00	8-10	9-2	9-6	9-10	10-1	10-5	10-8	10-11	11-1	11-3

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-6	1-7	1-7
100.00	2-3	2-4	2-5	2-6	2-7	2-7	2-8	2-9	2-9	2-10
125.00	3-7	3-8	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5
150.00	5-1	5-4	5-6	5-8	5-9	5-11	6-0	6-1	6-3	6-4
175.00	6-11	7-3	7-6	7-9	7-11	8-0	8-2	8-4	8-6	8-8
200.00	9-1	9-5	9-9	10-1	10-4	10-6	10-8	10-11	11-1	11-3

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-5	2-5	2-5	2-5	2-6	2-6	2-6	2-6	2-7	2-7
125.00	3-9	3-9	3-10	3-10	3-10	3-11	3-11	3-11	4-0	4-0
150.00	5-5	5-5	5-6	5-6	5-7	5-7	5-8	5-8	5-9	5-9
175.00	7-4	7-5	7-6	7-6	7-7	7-8	7-9	7-9	7-10	7-10
200.00	9-7	9-8	9-9	9-10	9-11	10-0	10-1	10-2	10-2	10-3
225.00	12-2	12-3	12-5	12-6	12-7	12-8	12-9	12-10	12-11	13-0
250.00	15-0	15-2	15-4	15-5	15-7	15-8	15-10	15-11	16-0	16-1

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-5	2-5	2-5	2-6	2-6	2-6	2-6	2-6	2-7	2-7
125.00	3-9	3-10	3-10	3-10	3-11	3-11	3-11	3-11	4-0	4-0
150.00	5-5	5-6	5-6	5-7	5-7	5-8	5-8	5-8	5-9	5-9
175.00	7-5	7-6	7-6	7-7	7-8	7-8	7-9	7-9	7-10	7-10
200.00	9-8	9-9	9-10	9-11	10-0	10-0	10-1	10-2	10-2	10-3
225.00	12-3	12-4	12-6	12-7	12-8	12-9	12-9	12-10	12-11	13-0
250.00	15-2	15-3	15-5	15-6	15-8	15-9	15-10	15-11	16-0	16-1

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-6	5-7	5-7	5-7	5-7	5-7	5-8	5-8	5-8	5-8
175.00	7-6	7-7	7-7	7-7	7-8	7-8	7-8	7-8	7-9	7-9
200.00	9-10	9-10	9-11	9-11	10-0	10-0	10-1	10-1	10-1	10-1
225.00	12-5	12-6	12-7	12-7	12-8	12-8	12-9	12-9	12-9	12-10
250.00	15-5	15-5	15-6	15-7	15-7	15-8	15-9	15-9	15-10	15-10
275.00	18-8	18-9	18-9	18-10	18-11	19-0	19-1	19-1	19-2	19-2
300.00	22-2	22-3	22-4	22-5	22-6	22-7	22-8	22-9	22-10	22-10
325.00	26-1	26-2	26-3	26-5	26-6	26-7	26-8	26-9	26-10	26-10
350.00	30-4	30-5	30-6	30-8	30-9	30-10	31-0	31-1	31-1	31-2
375.00	34-10	35-0	35-1	35-3	35-4	35-6	35-7	35-8	35-9	35-10

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-6	5-7	5-7	5-7	5-7	5-8	5-8	5-8	5-8	5-8
175.00	7-7	7-7	7-7	7-8	7-8	7-8	7-8	7-8	7-9	7-9
200.00	9-10	9-11	9-11	10-0	10-0	10-0	10-1	10-1	10-1	10-1
225.00	12-6	12-6	12-7	12-8	12-8	12-8	12-9	12-9	12-9	12-10
250.00	15-5	15-6	15-7	15-7	15-8	15-8	15-9	15-9	15-10	15-10
275.00	18-8	18-9	18-10	18-11	18-11	19-0	19-1	19-1	19-2	19-2
300.00	22-3	22-4	22-5	22-6	22-7	22-8	22-8	22-9	22-10	22-10
325.00	26-2	26-3	26-4	26-6	26-6	26-7	26-8	26-9	26-10	26-10
350.00	30-5	30-6	30-8	30-9	30-10	30-11	31-0	31-1	31-1	31-2
375.00	34-11	35-1	35-3	35-4	35-5	35-6	35-7	35-8	35-9	35-10

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 102 OF 360		Indicates Latest Revision			Completely Revised X New Page			Information Removed			OH811.102
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS									

Span = 100 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	3.904	1.95	2500	1.95	2500*
0	0	0	0	0.52	1.37	474	1.24	524
30	0	0	0	0.52	1.73	376	1.61	403
40	0	0	0	0.52	1.84	354	1.72	378
50	0	0	0	0.52	1.94	335	1.83	356
60	0	0	0	0.52	2.01	325	1.93	338
70	0	0	0	0.52	2.07	315	2.02	322
80	0	0	0	0.52	2.12	306	2.11	308
90	0	0	0	0.52	2.19	298	2.19	298
100	0	0	0	0.52	2.24	290	2.24	290
110	0	0	0	0.52	2.3	283	2.3	283
120	0	0	0	0.52	2.35	277	2.35	277
130	0	0	0	0.52	2.41	271	2.41	271
167	0	0	0	0.52	2.6	251	2.6	251
212	0	0	0	0.52	2.81	232	2.81	232

* Design Condition

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	3.904	7.86	2500	7.86	2500*
0	0	0	0	0.52	7.31	357	7.16	365
30	0	0	0	0.52	7.63	343	7.52	348
40	0	0	0	0.52	7.74	338	7.62	343
50	0	0	0	0.52	7.84	334	7.72	339
60	0	0	0	0.52	7.91	331	7.82	334
70	0	0	0	0.52	7.98	328	7.92	330
80	0	0	0	0.52	8.04	325	8.02	326
90	0	0	0	0.52	8.11	323	8.11	323
100	0	0	0	0.52	8.18	320	8.18	320
110	0	0	0	0.52	8.24	318	8.24	318
120	0	0	0	0.52	8.31	315	8.31	315
130	0	0	0	0.52	8.37	313	8.37	313
167	0	0	0	0.52	8.6	304	8.6	304
212	0	0	0	0.52	8.88	295	8.88	295

* Design Condition


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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>105 OF 360</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH811.105	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN SDGE EXTRA HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	3.904	50.82	2500	50.82	2500*
0	0	0	0	0.52	50.29	336	50.14	337
30	0	0	0	0.52	50.6	334	50.49	335
40	0	0	0	0.52	50.7	334	50.59	334
50	0	0	0	0.52	50.8	333	50.69	334
60	0	0	0	0.52	50.87	333	50.79	333
70	0	0	0	0.52	50.94	332	50.89	333
80	0	0	0	0.52	51.01	332	50.99	332
90	0	0	0	0.52	51.08	331	51.08	331
100	0	0	0	0.52	51.15	331	51.15	331
110	0	0	0	0.52	51.22	331	51.22	331
120	0	0	0	0.52	51.29	330	51.29	330
130	0	0	0	0.52	51.36	330	51.36	330
167	0	0	0	0.52	51.61	328	51.61	328
212	0	0	0	0.52	51.91	327	51.91	327
* Design Condition								

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>107 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH811.107</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN SDGE EXTRA HEAVY LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 2500 LBS</p> </div>				

	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed
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SHEET	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

107 OF 360	DESIGN TABLES: 500' RULING SPAN SDGE EXTRA HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS	OH811.107
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<div style="text-align: center;"> <p>SHEET</p> <p>107 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	New Page	Information Removed	<div style="text-align: center;"> <p>OH811.107</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN SDGE EXTRA HEAVY LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 2500 LBS</p> </div>				

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-10	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-3	1-4
100.00	1-6	1-7	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4
125.00	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-5	3-6	3-7
150.00	3-4	3-8	3-11	4-1	4-4	4-7	4-9	4-11	5-1	5-2
175.00	4-7	4-11	5-3	5-7	5-11	6-2	6-6	6-8	6-11	7-1
200.00	6-0	6-5	6-11	7-4	7-9	8-1	8-6	8-9	9-0	9-3

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-11	1-0	1-0	1-1	1-2	1-2	1-2	1-3	1-3	1-4
100.00	1-7	1-9	1-10	1-11	2-0	2-1	2-1	2-2	2-3	2-4
125.00	2-6	2-8	2-10	3-0	3-2	3-3	3-4	3-5	3-6	3-7
150.00	3-8	3-11	4-2	4-4	4-6	4-8	4-9	4-11	5-1	5-2
175.00	5-0	5-4	5-8	5-11	6-2	6-4	6-6	6-8	6-11	7-1
200.00	6-6	6-11	7-4	7-9	8-0	8-3	8-6	8-9	9-0	9-3

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 108 OF 360		Indicates Latest Revision Completely Revised X New Page Information Removed									OH811.108
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-10	1-11	1-11	1-11	1-11	2-0	2-0	2-0	2-0	2-1
125.00	2-11	2-11	3-0	3-0	3-1	3-1	3-2	3-2	3-2	3-3
150.00	4-2	4-3	4-3	4-4	4-5	4-5	4-6	4-7	4-7	4-8
175.00	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-3	6-4
200.00	7-5	7-6	7-7	7-9	7-10	7-11	8-0	8-1	8-2	8-3
225.00	9-5	9-6	9-8	9-9	9-11	10-0	10-2	10-3	10-4	10-5
250.00	11-7	11-9	11-11	12-1	12-3	12-5	12-7	12-8	12-10	12-11

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-11	1-11	1-11	1-11	2-0	2-0	2-0	2-0	2-0	2-1
125.00	2-11	3-0	3-0	3-1	3-1	3-1	3-2	3-2	3-2	3-3
150.00	4-3	4-3	4-4	4-5	4-5	4-6	4-6	4-7	4-7	4-8
175.00	5-9	5-10	5-11	6-0	6-1	6-1	6-2	6-3	6-3	6-4
200.00	7-6	7-8	7-9	7-10	7-11	8-0	8-1	8-1	8-2	8-3
225.00	9-6	9-8	9-10	9-11	10-0	10-1	10-2	10-3	10-4	10-5
250.00	11-9	11-11	12-1	12-3	12-4	12-6	12-7	12-8	12-10	12-11

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 109 OF 360		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH811.109
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-4	4-4	4-5	4-5	4-5	4-5	4-6	4-6	4-6	4-6
175.00	5-11	5-11	6-0	6-0	6-0	6-1	6-1	6-2	6-2	6-2
200.00	7-8	7-9	7-10	7-10	7-11	7-11	8-0	8-0	8-1	8-1
225.00	9-9	9-10	9-10	9-11	10-0	10-0	10-1	10-2	10-2	10-3
250.00	12-1	12-1	12-2	12-3	12-4	12-5	12-6	12-6	12-7	12-8
275.00	14-7	14-8	14-9	14-10	14-11	15-0	15-1	15-2	15-3	15-3
300.00	17-5	17-6	17-7	17-8	17-9	17-11	18-0	18-1	18-2	18-3
325.00	20-5	20-6	20-8	20-9	20-11	21-0	21-1	21-3	21-4	21-5
350.00	23-8	23-10	24-0	24-1	24-3	24-5	24-6	24-8	24-9	24-10
375.00	27-3	27-5	27-7	27-8	27-10	28-0	28-2	28-4	28-5	28-6

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-4	4-5	4-5	4-5	4-5	4-6	4-6	4-6	4-6	4-6
175.00	5-11	6-0	6-0	6-0	6-1	6-1	6-1	6-2	6-2	6-2
200.00	7-9	7-10	7-10	7-11	7-11	7-11	8-0	8-0	8-1	8-1
225.00	9-10	9-11	9-11	10-0	10-0	10-1	10-1	10-2	10-2	10-3
250.00	12-2	12-2	12-3	12-4	12-5	12-5	12-6	12-6	12-7	12-8
275.00	14-8	14-9	14-10	14-11	15-0	15-1	15-1	15-2	15-3	15-3
300.00	17-6	17-7	17-8	17-10	17-10	17-11	18-0	18-1	18-2	18-3
325.00	20-6	20-8	20-9	20-11	21-0	21-1	21-2	21-3	21-4	21-5
350.00	23-10	24-0	24-2	24-3	24-4	24-5	24-7	24-8	24-9	24-10
375.00	27-5	27-7	27-9	27-11	28-0	28-1	28-3	28-4	28-5	28-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 110 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.110
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS					

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	3.904	6.53	3000	6.53	3000*
0	0	0	0	0.52	5.74	455	5.54	471
30	0	0	0	0.52	6.14	425	5.96	438
40	0	0	0	0.52	6.26	417	6.09	429
50	0	0	0	0.52	6.39	409	6.21	420
60	0	0	0	0.52	6.47	403	6.33	412
70	0	0	0	0.52	6.55	399	6.45	404
80	0	0	0	0.52	6.63	394	6.57	397
90	0	0	0	0.52	6.71	389	6.69	390
100	0	0	0	0.52	6.79	385	6.79	385
110	0	0	0	0.52	6.87	380	6.87	380
120	0	0	0	0.52	6.94	376	6.94	376
130	0	0	0	0.52	7.02	372	7.02	372
167	0	0	0	0.52	7.29	359	7.29	359
212	0	0	0	0.52	7.6	344	7.6	344

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>113 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH811.113</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 100' & 200' RULING SPAN SDGE EXTRA HEAVY LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 3000 LBS</p> </div>				

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	3.904	14.78	3000	14.78	3000*
0	0	0	0	0.52	14	421	13.81	427
30	0	0	0	0.52	14.39	410	14.21	415
40	0	0	0	0.52	14.51	407	14.34	412
50	0	0	0	0.52	14.63	404	14.46	408
60	0	0	0	0.52	14.72	401	14.58	405
70	0	0	0	0.52	14.8	399	14.7	402
80	0	0	0	0.52	14.88	397	14.82	399
90	0	0	0	0.52	14.96	395	14.94	395
100	0	0	0	0.52	15.05	393	15.05	393
110	0	0	0	0.52	15.12	391	15.12	391
120	0	0	0	0.52	15.2	389	15.2	389
130	0	0	0	0.52	15.28	387	15.28	387
167	0	0	0	0.52	15.57	380	15.57	380
212	0	0	0	0.52	15.92	372	15.92	372

* Design Condition

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	3.904	26.48	3000	26.48	3000*
0	0	0	0	0.52	25.71	411	25.51	414
30	0	0	0	0.52	26.09	405	25.92	408
40	0	0	0	0.52	26.21	404	26.04	406
50	0	0	0	0.52	26.33	402	26.16	404
60	0	0	0	0.52	26.42	401	26.28	403
70	0	0	0	0.52	26.5	399	26.4	401
80	0	0	0	0.52	26.58	398	26.52	399
90	0	0	0	0.52	26.66	397	26.64	397
100	0	0	0	0.52	26.75	396	26.75	396
110	0	0	0	0.52	26.83	395	26.83	395
120	0	0	0	0.52	26.91	393	26.91	393
130	0	0	0	0.52	26.99	392	26.99	392
167	0	0	0	0.52	27.29	388	27.29	388
212	0	0	0	0.52	27.64	383	27.64	383

* Design Condition

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[illegible]

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	3.904	41.8	3000	41.8	3000*
0	0	0	0	0.52	41.03	407	40.84	409
30	0	0	0	0.52	41.41	403	41.24	405
40	0	0	0	0.52	41.53	402	41.36	404
50	0	0	0	0.52	41.65	401	41.48	403
60	0	0	0	0.52	41.74	400	41.6	401
70	0	0	0	0.52	41.82	399	41.72	400
80	0	0	0	0.52	41.9	399	41.84	399
90	0	0	0	0.52	41.98	398	41.96	398
100	0	0	0	0.52	42.07	397	42.07	397
110	0	0	0	0.52	42.15	396	42.15	396
120	0	0	0	0.52	42.23	396	42.23	396
130	0	0	0	0.52	42.32	395	42.32	395
167	0	0	0	0.52	42.61	392	42.61	392
212	0	0	0	0.52	42.98	389	42.98	389
* Design Condition								

* Design Condition

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<div style="text-align: center;"> <p>SHEET</p> <p>115 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH811.115</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN SDGE EXTRA HEAVY LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 3000 LBS</p> </div>				

Completely Revised

X	New Page	Information Removed
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDGE EXTRA HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.115

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-6	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-0	1-1
100.00	0-11	1-0	1-2	1-4	1-5	1-7	1-8	1-9	1-10	1-11
125.00	1-5	1-7	1-10	2-1	2-3	2-5	2-7	2-9	2-11	3-0
150.00	2-0	2-4	2-8	2-11	3-3	3-6	3-9	4-0	4-2	4-4
175.00	2-9	3-2	3-7	4-0	4-5	4-9	5-1	5-5	5-8	5-10
200.00	3-7	4-2	4-8	5-3	5-9	6-3	6-8	7-1	7-5	7-8

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-0	1-0	1-1
100.00	1-1	1-3	1-4	1-6	1-7	1-8	1-9	1-9	1-10	1-11
125.00	1-8	1-11	2-2	2-4	2-6	2-7	2-8	2-9	2-11	3-0
150.00	2-5	2-9	3-1	3-4	3-6	3-8	3-10	4-0	4-2	4-4
175.00	3-4	3-9	4-2	4-7	4-10	5-0	5-3	5-5	5-8	5-10
200.00	4-4	4-11	5-5	5-11	6-4	6-7	6-10	7-1	7-5	7-8

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Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-5	1-6	1-6	1-7	1-7	1-7	1-8	1-8	1-8	1-9
125.00	2-3	2-4	2-5	2-5	2-6	2-6	2-7	2-7	2-8	2-8
150.00	3-3	3-4	3-5	3-6	3-7	3-8	3-8	3-9	3-10	3-10
175.00	4-6	4-7	4-8	4-9	4-10	4-11	5-0	5-1	5-2	5-3
200.00	5-10	6-0	6-1	6-3	6-4	6-5	6-7	6-8	6-9	6-10
225.00	7-5	7-7	7-8	7-10	8-0	8-2	8-4	8-6	8-7	8-8
250.00	9-1	9-4	9-6	9-9	9-11	10-1	10-3	10-6	10-7	10-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-6	1-6	1-7	1-7	1-7	1-8	1-8	1-8	1-8	1-9
125.00	2-4	2-5	2-5	2-6	2-6	2-7	2-7	2-7	2-8	2-8
150.00	3-5	3-5	3-6	3-7	3-8	3-8	3-9	3-9	3-10	3-10
175.00	4-7	4-8	4-10	4-11	4-11	5-0	5-1	5-2	5-2	5-3
200.00	6-0	6-2	6-3	6-5	6-6	6-7	6-8	6-8	6-9	6-10
225.00	7-7	7-9	7-11	8-1	8-2	8-4	8-5	8-6	8-7	8-8
250.00	9-5	9-7	9-10	10-0	10-1	10-3	10-4	10-6	10-7	10-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 117 OF 360		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH811.117
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-6	3-7	3-7	3-7	3-8	3-8	3-8	3-9	3-9	3-9
175.00	4-9	4-10	4-10	4-11	4-11	5-0	5-0	5-1	5-1	5-2
200.00	6-3	6-4	6-4	6-5	6-6	6-6	6-7	6-8	6-8	6-9
225.00	7-11	8-0	8-1	8-1	8-2	8-3	8-4	8-5	8-5	8-6
250.00	9-9	9-10	9-11	10-0	10-1	10-2	10-3	10-4	10-5	10-6
275.00	11-10	11-11	12-0	12-2	12-3	12-4	12-5	12-7	12-8	12-8
300.00	14-1	14-3	14-4	14-6	14-7	14-8	14-10	14-11	15-1	15-1
325.00	16-7	16-8	16-10	17-0	17-1	17-3	17-5	17-7	17-8	17-9
350.00	19-2	19-4	19-6	19-8	19-10	20-0	20-2	20-4	20-6	20-7
375.00	22-1	22-3	22-5	22-8	22-10	23-0	23-2	23-5	23-7	23-8

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-7	3-7	3-7	3-8	3-8	3-8	3-9	3-9	3-9	3-9
175.00	4-10	4-11	4-11	5-0	5-0	5-0	5-1	5-1	5-1	5-2
200.00	6-4	6-5	6-5	6-6	6-6	6-7	6-7	6-8	6-8	6-9
225.00	8-0	8-1	8-2	8-3	8-3	8-4	8-4	8-5	8-5	8-6
250.00	9-11	10-0	10-1	10-2	10-3	10-3	10-4	10-5	10-5	10-6
275.00	12-0	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-8
300.00	14-3	14-5	14-6	14-8	14-9	14-10	14-11	15-0	15-1	15-1
325.00	16-9	16-11	17-0	17-2	17-3	17-5	17-6	17-7	17-8	17-9
350.00	19-5	19-7	19-9	19-11	20-1	20-2	20-3	20-5	20-6	20-7
375.00	22-4	22-6	22-9	22-11	23-0	23-2	23-3	23-5	23-7	23-8

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 118 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.118
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-5	6-5	6-6	6-6	6-7	6-7	6-7	6-8	6-8	6-8
225.00	8-2	8-2	8-2	8-3	8-3	8-4	8-4	8-5	8-5	8-5
250.00	10-1	10-1	10-2	10-2	10-3	10-3	10-4	10-4	10-5	10-5
275.00	12-2	12-3	12-3	12-4	12-5	12-5	12-6	12-7	12-7	12-8
300.00	14-6	14-7	14-7	14-8	14-9	14-10	14-11	14-11	15-0	15-1
325.00	17-0	17-1	17-2	17-3	17-4	17-5	17-6	17-7	17-7	17-8
350.00	19-9	19-10	19-11	20-0	20-1	20-2	20-3	20-4	20-5	20-6
375.00	22-8	22-9	22-10	23-0	23-1	23-2	23-4	23-5	23-6	23-7
400.00	25-10	25-11	26-0	26-2	26-3	26-5	26-6	26-8	26-9	26-10
425.00	29-2	29-3	29-5	29-7	29-8	29-10	30-0	30-1	30-3	30-4
450.00	32-8	32-10	33-0	33-2	33-4	33-6	33-7	33-9	33-11	34-0
475.00	36-5	36-8	36-10	37-0	37-2	37-4	37-6	37-8	37-10	37-11
500.00	40-5	40-7	40-10	41-0	41-2	41-5	41-7	41-9	41-11	42-1

Stringing Sag Table Using Final Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-6	6-6	6-6	6-7	6-7	6-7	6-7	6-8	6-8	6-8
225.00	8-2	8-3	8-3	8-4	8-4	8-4	8-5	8-5	8-5	8-5
250.00	10-1	10-2	10-2	10-3	10-3	10-4	10-4	10-5	10-5	10-5
275.00	12-3	12-4	12-4	12-5	12-5	12-6	12-6	12-7	12-7	12-8
300.00	14-7	14-8	14-8	14-9	14-10	14-10	14-11	15-0	15-0	15-1
325.00	17-1	17-2	17-3	17-4	17-5	17-6	17-6	17-7	17-7	17-8
350.00	19-10	19-11	20-1	20-2	20-2	20-3	20-4	20-5	20-5	20-6
375.00	22-10	22-11	23-0	23-2	23-2	23-3	23-4	23-5	23-6	23-7
400.00	26-0	26-1	26-3	26-4	26-5	26-6	26-7	26-8	26-9	26-10
425.00	29-4	29-6	29-7	29-9	29-10	29-11	30-0	30-1	30-3	30-4
450.00	32-11	33-1	33-3	33-5	33-6	33-7	33-8	33-10	33-11	34-0
475.00	36-8	36-10	37-1	37-3	37-4	37-5	37-7	37-8	37-10	37-11
500.00	40-8	40-11	41-1	41-3	41-5	41-6	41-8	41-10	41-11	42-1

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 119 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.119
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS					

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	10-3	10-3	10-4	10-4	10-4	10-5	10-5	10-5	10-5	10-6
275.00	12-5	12-5	12-6	12-6	12-7	12-7	12-7	12-7	12-8	12-8
300.00	14-9	14-10	14-10	14-11	14-11	15-0	15-0	15-0	15-1	15-1
325.00	17-4	17-5	17-5	17-6	17-6	17-7	17-7	17-8	17-8	17-9
350.00	20-2	20-2	20-3	20-4	20-4	20-5	20-5	20-6	20-6	20-7
375.00	23-2	23-2	23-3	23-4	23-5	23-5	23-6	23-6	23-7	23-7
400.00	26-4	26-5	26-6	26-7	26-7	26-8	26-9	26-9	26-10	26-11
425.00	29-9	29-10	29-11	30-0	30-1	30-2	30-2	30-3	30-4	30-5
450.00	33-5	33-6	33-7	33-8	33-9	33-10	33-11	33-11	34-0	34-1
475.00	37-3	37-4	37-5	37-7	37-8	37-8	37-9	37-10	37-11	38-0
500.00	41-3	41-5	41-6	41-8	41-9	41-10	41-11	42-0	42-1	42-2
525.00	45-7	45-8	45-10	46-0	46-1	46-2	46-3	46-4	46-5	46-6
550.00	50-1	50-2	50-4	50-6	50-7	50-8	50-10	50-11	51-0	51-1
575.00	54-9	54-11	55-1	55-3	55-4	55-6	55-7	55-8	55-10	55-11
600.00	59-8	59-10	60-1	60-3	60-4	60-6	60-7	60-8	60-10	60-11
625.00	64-10	65-0	65-3	65-5	65-7	65-8	65-10	65-11	66-1	66-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>120 OF 360</div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH811.120	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.876	4.46	984	4.39	1000*
20	0	0	0	0.52	3.73	697	3.65	714
30	0	0	0	0.52	3.93	663	3.84	679
40	0	0	0	0.52	4.11	633	4.02	648
50	0	0	0	0.52	4.29	607	4.19	621
60	0	0	0	0.52	4.47	583	4.36	597
70	0	0	0	0.52	4.64	562	4.53	575
80	0	0	0	0.52	4.8	543	4.69	555
90	0	0	0	0.52	4.95	526	4.85	538
100	0	0	0	0.52	5.05	516	5	521
110	0	0	0	0.52	5.15	506	5.15	506
120	0	0	0	0.52	5.25	497	5.25	497
130	0	0	0	0.52	5.34	488	5.34	488
167	0	0	0	0.52	5.68	459	5.68	459
212	0	0	0	0.52	6.07	430	6.07	430

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 121 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.121
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.876	27.79	997	27.7	1000*
20	0	0	0	0.52	27.06	608	26.97	610
30	0	0	0	0.52	27.24	604	27.15	606
40	0	0	0	0.52	27.43	600	27.33	602
50	0	0	0	0.52	27.61	596	27.5	598
60	0	0	0	0.52	27.79	592	27.68	594
70	0	0	0	0.52	27.97	588	27.86	591
80	0	0	0	0.52	28.15	584	28.03	587
90	0	0	0	0.52	28.33	581	28.21	583
100	0	0	0	0.52	28.48	578	28.38	580
110	0	0	0	0.52	28.6	576	28.55	577
120	0	0	0	0.52	28.72	573	28.72	573
130	0	0	0	0.52	28.84	571	28.84	571
167	0	0	0	0.52	29.26	563	29.26	563
212	0	0	0	0.52	29.77	554	29.77	554

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>123 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	<input checked="" type="checkbox"/> New Page	Information Removed	<div style="text-align: center;"> <p>OH811.123</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 1000 LBS</p> </div>				

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11
100.00	0-6	0-8	0-9	0-11	1-1	1-3	1-4	1-6	1-7	1-8
125.00	0-10	1-0	1-3	1-5	1-8	1-11	2-1	2-4	2-6	2-7
150.00	1-2	1-6	1-9	2-1	2-5	2-9	3-0	3-4	3-7	3-9
175.00	1-8	2-0	2-5	2-10	3-4	3-9	4-1	4-6	4-10	5-1
200.00	2-1	2-7	3-2	3-9	4-4	4-10	5-5	5-11	6-4	6-7

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11	0-11
100.00	0-7	0-8	0-10	1-0	1-2	1-4	1-5	1-6	1-7	1-8
125.00	0-10	1-1	1-4	1-7	1-10	2-0	2-3	2-4	2-6	2-7
150.00	1-3	1-7	1-11	2-3	2-7	2-11	3-3	3-5	3-7	3-9
175.00	1-8	2-2	2-7	3-1	3-7	4-0	4-5	4-7	4-10	5-1
200.00	2-3	2-10	3-5	4-0	4-8	5-2	5-9	6-0	6-4	6-7

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 124 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.124
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-3
125.00	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-11	1-11	2-0
150.00	2-1	2-2	2-3	2-4	2-5	2-7	2-8	2-9	2-10	2-11
175.00	2-10	2-11	3-1	3-3	3-4	3-6	3-7	3-9	3-10	3-11
200.00	3-8	3-10	4-0	4-2	4-4	4-6	4-8	4-10	5-0	5-2
225.00	4-7	4-10	5-1	5-4	5-6	5-9	5-11	6-2	6-4	6-6
250.00	5-8	6-0	6-3	6-7	6-10	7-1	7-4	7-7	7-10	8-1

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-3
125.00	1-6	1-6	1-7	1-8	1-9	1-10	1-10	1-11	2-0	2-0
150.00	2-1	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
175.00	2-10	3-0	3-2	3-3	3-5	3-7	3-8	3-10	3-10	3-11
200.00	3-9	3-11	4-1	4-4	4-6	4-8	4-10	4-11	5-1	5-2
225.00	4-9	5-0	5-2	5-5	5-8	5-10	6-1	6-3	6-5	6-6
250.00	5-10	6-2	6-5	6-9	7-0	7-3	7-6	7-9	7-11	8-1

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 125 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.125
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-3	4-3	4-4	4-4	4-5	4-5	4-6	4-6	4-7	4-7
225.00	5-4	5-5	5-5	5-6	5-7	5-7	5-8	5-9	5-9	5-10
250.00	6-7	6-8	6-9	6-10	6-11	6-11	7-0	7-1	7-2	7-3
275.00	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9
300.00	9-6	9-7	9-8	9-10	9-11	10-0	10-1	10-2	10-4	10-5
325.00	11-2	11-3	11-5	11-6	11-8	11-9	11-10	12-0	12-1	12-2
350.00	12-11	13-1	13-3	13-4	13-6	13-7	13-9	13-11	14-0	14-2
375.00	14-10	15-0	15-2	15-4	15-6	15-8	15-10	15-11	16-1	16-3
400.00	16-11	17-1	17-3	17-5	17-8	17-10	18-0	18-2	18-4	18-6
425.00	19-1	19-4	19-6	19-8	19-11	20-1	20-4	20-6	20-8	20-11
450.00	21-5	21-8	21-11	22-1	22-4	22-7	22-9	23-0	23-2	23-5
475.00	23-10	24-2	24-5	24-8	24-11	25-2	25-5	25-7	25-10	26-1
500.00	26-6	26-9	27-0	27-4	27-7	27-10	28-2	28-5	28-8	28-11

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-3	4-3	4-4	4-5	4-5	4-6	4-6	4-7	4-7	4-7
225.00	5-4	5-5	5-6	5-7	5-7	5-8	5-9	5-9	5-10	5-10
250.00	6-8	6-8	6-9	6-10	6-11	7-0	7-1	7-2	7-2	7-3
275.00	8-0	8-1	8-2	8-3	8-4	8-5	8-7	8-7	8-8	8-9
300.00	9-7	9-8	9-9	9-10	10-0	10-1	10-2	10-3	10-4	10-5
325.00	11-3	11-4	11-6	11-7	11-8	11-10	11-11	12-1	12-2	12-3
350.00	13-0	13-2	13-4	13-5	13-7	13-9	13-10	14-0	14-1	14-2
375.00	14-11	15-1	15-3	15-5	15-7	15-9	15-11	16-1	16-2	16-3
400.00	17-0	17-2	17-5	17-7	17-9	17-11	18-1	18-3	18-5	18-6
425.00	19-2	19-5	19-7	19-10	20-0	20-3	20-5	20-8	20-10	20-11
450.00	21-6	21-9	22-0	22-3	22-6	22-8	22-11	23-2	23-4	23-6
475.00	24-0	24-3	24-6	24-9	25-1	25-4	25-7	25-10	26-0	26-2
500.00	26-7	26-11	27-2	27-6	27-9	28-0	28-4	28-7	28-10	29-0

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C						F						
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 127 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH811.127
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS										

Span = 100 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.876	0.82	1343	0.73	1500*
20	0	0	0	0.52	0.32	2021	0.31	2129
30	0	0	0	0.52	0.39	1653	0.36	1825
40	0	0	0	0.52	0.49	1323	0.42	1531
50	0	0	0	0.52	0.62	1050	0.52	1261
60	0	0	0	0.52	0.77	846	0.63	1030
70	0	0	0	0.52	0.93	702	0.77	847
80	0	0	0	0.52	1.08	603	0.91	712
90	0	0	0	0.52	1.17	555	1.06	614
100	0	0	0	0.52	1.25	522	1.2	543
110	0	0	0	0.52	1.33	491	1.33	491
120	0	0	0	0.52	1.4	465	1.4	465
130	0	0	0	0.52	1.47	442	1.47	442
167	0	0	0	0.52	1.73	376	1.73	376
212	0	0	0	0.52	2.02	322	2.02	322

* Design Condition

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.876	3.07	1426	2.92	1500*
20	0	0	0	0.52	2.02	1288	1.85	1403
30	0	0	0	0.52	2.27	1146	2.08	1252
40	0	0	0	0.52	2.52	1034	2.31	1128
50	0	0	0	0.52	2.76	944	2.53	1026
60	0	0	0	0.52	2.99	871	2.76	943
70	0	0	0	0.52	3.21	810	2.98	873
80	0	0	0	0.52	3.43	760	3.19	815
90	0	0	0	0.52	3.63	717	3.4	766
100	0	0	0	0.52	3.79	687	3.6	724
110	0	0	0	0.52	3.9	667	3.79	687
120	0	0	0	0.52	4.01	649	3.97	655
130	0	0	0	0.52	4.13	631	4.13	631
167	0	0	0	0.52	4.53	576	4.53	576
212	0	0	0	0.52	4.98	523	4.98	523

* Design Condition

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>129 OF 360</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH811.129
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS									

* Design Condition

* Design Condition

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[illegible]

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.876	18.54	1484	18.34	1500*
20	0	0	0	0.52	17.34	942	17.09	956
30	0	0	0	0.52	17.61	927	17.36	941
40	0	0	0	0.52	17.89	913	17.63	927
50	0	0	0	0.52	18.16	899	17.89	913
60	0	0	0	0.52	18.43	886	18.15	900
70	0	0	0	0.52	18.7	874	18.41	887
80	0	0	0	0.52	18.96	862	18.67	875
90	0	0	0	0.52	19.21	851	18.92	864
100	0	0	0	0.52	19.47	840	19.17	853
110	0	0	0	0.52	19.72	829	19.42	842
120	0	0	0	0.52	19.89	822	19.67	831
130	0	0	0	0.52	20.05	816	19.91	821
167	0	0	0	0.52	20.63	793	20.63	793
212	0	0	0	0.52	21.32	768	21.32	768

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 131 OF 360		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH811.131
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS											

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9
100.00	0-4	0-4	0-5	0-6	0-8	0-9	0-11	1-1	1-2	1-4
125.00	0-6	0-7	0-8	0-10	1-0	1-2	1-5	1-8	1-10	2-1
150.00	0-8	0-10	0-11	1-2	1-5	1-9	2-1	2-5	2-8	3-0
175.00	0-11	1-1	1-4	1-7	1-11	2-4	2-10	3-3	3-8	4-1
200.00	1-3	1-5	1-8	2-1	2-6	3-1	3-8	4-3	4-10	5-4

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-8	0-9
100.00	0-4	0-5	0-6	0-7	0-9	0-11	1-1	1-2	1-3	1-4
125.00	0-6	0-7	0-9	1-0	1-2	1-5	1-8	1-10	1-11	2-1
150.00	0-9	0-11	1-1	1-5	1-9	2-1	2-5	2-8	2-10	3-0
175.00	1-0	1-2	1-6	1-11	2-4	2-10	3-4	3-7	3-10	4-1
200.00	1-3	1-7	2-0	2-6	3-1	3-8	4-4	4-8	5-0	5-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 132 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.132
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11	0-11
125.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6
150.00	1-1	1-2	1-4	1-5	1-7	1-8	1-10	1-11	2-0	2-2
175.00	1-5	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-11
200.00	1-10	2-1	2-4	2-6	2-9	3-0	3-2	3-5	3-7	3-9
225.00	2-4	2-8	2-11	3-2	3-6	3-9	4-0	4-4	4-7	4-10
250.00	2-11	3-3	3-7	4-0	4-4	4-8	5-0	5-4	5-7	5-11

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11	0-11	1-0
125.00	0-9	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-6
150.00	1-2	1-3	1-5	1-7	1-8	1-10	1-11	2-1	2-2	2-2
175.00	1-7	1-9	1-11	2-1	2-3	2-6	2-7	2-9	2-11	3-0
200.00	2-0	2-3	2-6	2-9	3-0	3-3	3-5	3-8	3-9	3-11
225.00	2-7	2-10	3-2	3-6	3-9	4-1	4-4	4-7	4-10	4-11
250.00	3-2	3-7	3-11	4-4	4-8	5-0	5-4	5-8	5-11	6-1

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Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-9	1-10	1-11
175.00	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7
200.00	2-5	2-6	2-7	2-9	2-10	2-11	3-1	3-2	3-3	3-4
225.00	3-0	3-2	3-4	3-6	3-7	3-9	3-10	4-0	4-2	4-3
250.00	3-9	3-11	4-1	4-3	4-5	4-7	4-9	4-11	5-1	5-3
275.00	4-6	4-9	4-11	5-2	5-5	5-7	5-9	6-0	6-2	6-4
300.00	5-4	5-8	5-11	6-2	6-5	6-8	6-11	7-1	7-4	7-7
325.00	6-3	6-7	6-11	7-3	7-6	7-10	8-1	8-4	8-7	8-11
350.00	7-4	7-8	8-0	8-4	8-9	9-1	9-4	9-8	10-0	10-4
375.00	8-4	8-10	9-3	9-7	10-0	10-5	10-9	11-1	11-6	11-10

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-5	1-6	1-6	1-7	1-8	1-9	1-9	1-10	1-11	1-11
175.00	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8
200.00	2-6	2-7	2-9	2-10	3-0	3-1	3-2	3-3	3-5	3-5
225.00	3-2	3-4	3-5	3-7	3-9	3-11	4-0	4-2	4-3	4-4
250.00	3-11	4-1	4-3	4-5	4-7	4-10	5-0	5-2	5-3	5-5
275.00	4-8	4-11	5-2	5-5	5-7	5-10	6-0	6-2	6-5	6-6
300.00	5-7	5-10	6-2	6-5	6-8	6-11	7-2	7-5	7-7	7-9
325.00	6-7	6-11	7-3	7-6	7-10	8-1	8-5	8-8	8-11	9-2
350.00	7-7	8-0	8-4	8-9	9-1	9-5	9-9	10-1	10-4	10-7
375.00	8-9	9-2	9-7	10-0	10-5	10-10	11-2	11-7	11-11	12-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
		<div style="color: orange;">Indicates Latest Revision</div>			Completely Revised	X	New Page		Information Removed		
SHEET 134 OF 360		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									OH811.134
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.876	2.42	1814	2.19	2000*
20	0	0	0	0.52	1.3	1996	1.16	2251
30	0	0	0	0.52	1.51	1725	1.3	1998
40	0	0	0	0.52	1.74	1498	1.47	1765
50	0	0	0	0.52	1.98	1313	1.67	1558
60	0	0	0	0.52	2.23	1166	1.88	1381
70	0	0	0	0.52	2.48	1050	2.11	1234
80	0	0	0	0.52	2.72	957	2.34	1112
90	0	0	0	0.52	2.95	881	2.57	1013
100	0	0	0	0.52	3.14	828	2.79	931
110	0	0	0	0.52	3.26	798	3.01	863
120	0	0	0	0.52	3.38	770	3.23	807
130	0	0	0	0.52	3.5	744	3.43	758
167	0	0	0	0.52	3.92	664	3.92	664
212	0	0	0	0.52	4.41	590	4.41	590
* Design Condition								


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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>137 OF 360</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH811.137
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.876	14.09	1949	13.73	2000*
20	0	0	0	0.52	12.37	1317	11.89	1370
30	0	0	0	0.52	12.74	1279	12.24	1330
40	0	0	0	0.52	13.09	1244	12.59	1294
50	0	0	0	0.52	13.45	1212	12.94	1259
60	0	0	0	0.52	13.79	1182	13.28	1227
70	0	0	0	0.52	14.13	1154	13.61	1198
80	0	0	0	0.52	14.46	1128	13.94	1170
90	0	0	0	0.52	14.79	1103	14.26	1143
100	0	0	0	0.52	15.1	1080	14.57	1119
110	0	0	0	0.52	15.42	1058	14.89	1096
120	0	0	0	0.52	15.73	1037	15.19	1074
130	0	0	0	0.52	15.92	1025	15.49	1053
167	0	0	0	0.52	16.6	983	16.57	985
212	0	0	0	0.52	17.41	938	17.4	938
* Design Condition								

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<div style="text-align: center;"> <p>SHEET</p> <p>139 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH811.139</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 2000 LBS</p> </div>				

Completely Revised

 New Page

OH811.139

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7
100.00	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-9	0-11	1-1
125.00	0-4	0-5	0-6	0-7	0-8	0-10	1-0	1-2	1-5	1-8
150.00	0-6	0-7	0-8	0-10	0-11	1-2	1-5	1-9	2-0	2-4
175.00	0-9	0-10	0-11	1-1	1-3	1-7	1-11	2-4	2-9	3-3
200.00	0-11	1-1	1-2	1-5	1-8	2-0	2-6	3-1	3-8	4-3

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-4	0-5	0-6	0-6	0-7	0-7
100.00	0-3	0-4	0-4	0-5	0-7	0-8	0-10	0-11	1-0	1-1
125.00	0-5	0-6	0-7	0-8	0-11	1-1	1-4	1-6	1-7	1-9
150.00	0-7	0-8	0-10	1-0	1-3	1-7	1-11	2-2	2-4	2-6
175.00	0-9	0-11	1-1	1-4	1-9	2-2	2-8	2-11	3-2	3-5
200.00	1-0	1-2	1-5	1-10	2-3	2-10	3-5	3-10	4-1	4-5

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 140 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.140
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-8	0-9
125.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2
150.00	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-5	1-7	1-8
175.00	0-11	1-0	1-2	1-3	1-5	1-7	1-9	2-0	2-2	2-4
200.00	1-2	1-4	1-6	1-8	1-11	2-1	2-4	2-7	2-10	3-0
225.00	1-6	1-8	1-10	2-1	2-5	2-8	3-0	3-3	3-6	3-10
250.00	1-10	2-0	2-4	2-7	2-11	3-4	3-8	4-0	4-4	4-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-9	0-10
125.00	0-6	0-7	0-8	0-9	0-10	1-0	1-1	1-2	1-3	1-3
150.00	0-9	0-10	1-0	1-1	1-3	1-5	1-6	1-8	1-9	1-10
175.00	1-0	1-2	1-4	1-6	1-8	1-11	2-1	2-3	2-5	2-6
200.00	1-4	1-6	1-9	2-0	2-3	2-6	2-9	2-11	3-2	3-3
225.00	1-8	1-11	2-2	2-6	2-10	3-2	3-5	3-9	4-0	4-2
250.00	2-0	2-4	2-9	3-1	3-6	3-10	4-3	4-7	4-11	5-1

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Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	1-0	1-1	1-2	1-2	1-3	1-4	1-5	1-6
175.00	1-2	1-3	1-4	1-5	1-7	1-8	1-9	1-10	1-11	2-0
200.00	1-6	1-7	1-9	1-11	2-0	2-2	2-3	2-5	2-6	2-8
225.00	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-0	3-2	3-4
250.00	2-4	2-6	2-9	2-11	3-2	3-4	3-7	3-9	3-11	4-1
275.00	2-10	3-1	3-4	3-7	3-10	4-1	4-4	4-6	4-9	5-0
300.00	3-4	3-8	3-11	4-3	4-6	4-10	5-1	5-5	5-8	5-11
325.00	3-11	4-3	4-8	5-0	5-4	5-8	6-0	6-4	6-8	7-0
350.00	4-7	5-0	5-4	5-9	6-2	6-7	7-0	7-4	7-9	8-1
375.00	5-3	5-8	6-2	6-8	7-1	7-7	8-0	8-5	8-10	9-3

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-6	1-7
175.00	1-3	1-4	1-6	1-7	1-8	1-10	1-11	2-0	2-1	2-2
200.00	1-8	1-10	1-11	2-1	2-3	2-4	2-6	2-7	2-9	2-10
225.00	2-1	2-3	2-5	2-8	2-10	3-0	3-2	3-3	3-5	3-7
250.00	2-7	2-10	3-0	3-3	3-6	3-8	3-10	4-1	4-3	4-5
275.00	3-1	3-5	3-8	3-11	4-2	4-5	4-8	4-11	5-2	5-4
300.00	3-9	4-0	4-4	4-8	5-0	5-3	5-7	5-10	6-1	6-4
325.00	4-4	4-9	5-1	5-6	5-10	6-2	6-6	6-10	7-2	7-6
350.00	5-1	5-6	5-11	6-4	6-9	7-2	7-7	8-0	8-4	8-8
375.00	5-10	6-4	6-10	7-4	7-9	8-3	8-9	9-2	9-7	9-11

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Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.876	2.03	2157	1.75	2500*
20	0	0	0	0.52	1	2604	0.87	2980
30	0	0	0	0.52	1.15	2266	0.96	2697
40	0	0	0	0.52	1.33	1961	1.07	2420
50	0	0	0	0.52	1.53	1695	1.21	2155
60	0	0	0	0.52	1.77	1473	1.36	1906
70	0	0	0	0.52	2.01	1294	1.55	1681
80	0	0	0	0.52	2.26	1151	1.75	1485
90	0	0	0	0.52	2.51	1037	1.97	1319
100	0	0	0	0.52	2.7	962	2.2	1182
110	0	0	0	0.52	2.82	922	2.43	1069
120	0	0	0	0.52	2.94	884	2.66	977
130	0	0	0	0.52	3.06	850	2.89	901
167	0	0	0	0.52	3.5	743	3.49	746
212	0	0	0	0.52	4.02	648	4	650

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 145 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.145
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.876	7.5	2338	7.01	2500*
20	0	0	0	0.52	5.49	1896	4.88	2133
30	0	0	0	0.52	5.89	1769	5.23	1990
40	0	0	0	0.52	6.28	1658	5.58	1864
50	0	0	0	0.52	6.66	1563	5.94	1751
60	0	0	0	0.52	7.04	1479	6.3	1651
70	0	0	0	0.52	7.41	1405	6.66	1563
80	0	0	0	0.52	7.77	1341	7.01	1485
90	0	0	0	0.52	8.12	1283	7.36	1415
100	0	0	0	0.52	8.46	1231	7.7	1352
110	0	0	0	0.52	8.8	1185	8.04	1296
120	0	0	0	0.52	9.09	1147	8.37	1245
130	0	0	0	0.52	9.27	1124	8.69	1200
167	0	0	0	0.52	9.94	1049	9.82	1062
212	0	0	0	0.52	10.73	972	10.7	974
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>146 OF 360</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH811.146
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.876	11.51	2383	10.97	2500*
20	0	0	0	0.52	9.32	1745	8.58	1895
30	0	0	0	0.52	9.76	1668	8.99	1809
40	0	0	0	0.52	10.18	1599	9.4	1731
50	0	0	0	0.52	10.59	1537	9.8	1661
60	0	0	0	0.52	11	1480	10.2	1597
70	0	0	0	0.52	11.39	1429	10.58	1538
80	0	0	0	0.52	11.78	1382	10.97	1485
90	0	0	0	0.52	12.16	1340	11.34	1436
100	0	0	0	0.52	12.53	1300	11.71	1390
110	0	0	0	0.52	12.89	1264	12.08	1349
120	0	0	0	0.52	13.25	1230	12.43	1310
130	0	0	0	0.52	13.53	1205	12.78	1275
167	0	0	0	0.52	14.28	1142	14.03	1162
212	0	0	0	0.52	15.17	1075	15.14	1077

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>147 OF 360</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH811.147</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 2500 LBS</p> </div>						

Completely Revised

New Page

OH811.147

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-4	0-4	0-5
100.00	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-8	0-10
125.00	0-4	0-4	0-4	0-5	0-6	0-7	0-8	0-10	1-0	1-3
150.00	0-5	0-6	0-6	0-7	0-8	0-10	1-0	1-2	1-6	1-9
175.00	0-7	0-8	0-9	0-10	0-11	1-1	1-4	1-8	2-0	2-5
200.00	0-9	0-10	1-0	1-1	1-3	1-6	1-9	2-2	2-7	3-2

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-1	0-2	0-2	0-2	0-3	0-4	0-5	0-5	0-6	0-6
100.00	0-3	0-3	0-4	0-4	0-5	0-7	0-8	0-9	0-10	0-11
125.00	0-4	0-5	0-6	0-7	0-8	0-10	1-1	1-3	1-4	1-5
150.00	0-6	0-7	0-8	0-10	1-0	1-3	1-7	1-9	1-11	2-1
175.00	0-8	0-9	0-11	1-1	1-4	1-8	2-2	2-5	2-7	2-10
200.00	0-10	1-0	1-2	1-5	1-9	2-3	2-10	3-2	3-5	3-8

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Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-2
175.00	0-9	0-10	0-11	1-1	1-2	1-3	1-4	1-5	1-7	1-8
200.00	1-0	1-2	1-3	1-4	1-6	1-7	1-9	1-11	2-0	2-2
225.00	1-4	1-5	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9
250.00	1-7	1-9	1-11	2-2	2-4	2-6	2-9	2-11	3-2	3-4
275.00	1-11	2-2	2-4	2-7	2-10	3-1	3-4	3-7	3-10	4-1
300.00	2-4	2-7	2-10	3-1	3-4	3-8	3-11	4-3	4-6	4-10
325.00	2-9	3-0	3-3	3-7	3-11	4-3	4-8	5-0	5-4	5-8
350.00	3-2	3-6	3-10	4-2	4-7	5-0	5-4	5-9	6-2	6-7
375.00	3-8	4-0	4-4	4-9	5-3	5-8	6-2	6-8	7-1	7-7

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-4
175.00	0-11	1-0	1-2	1-3	1-4	1-6	1-7	1-8	1-9	1-10
200.00	1-2	1-4	1-6	1-7	1-9	1-11	2-1	2-2	2-4	2-5
225.00	1-6	1-8	1-10	2-1	2-3	2-5	2-7	2-9	2-11	3-1
250.00	1-10	2-1	2-4	2-6	2-9	3-0	3-2	3-5	3-7	3-10
275.00	2-3	2-6	2-9	3-1	3-4	3-7	3-10	4-2	4-5	4-7
300.00	2-8	3-0	3-4	3-8	4-0	4-3	4-7	4-11	5-3	5-6
325.00	3-2	3-6	3-11	4-3	4-8	5-0	5-5	5-9	6-1	6-5
350.00	3-8	4-1	4-6	4-11	5-5	5-10	6-3	6-8	7-1	7-6
375.00	4-2	4-8	5-2	5-8	6-2	6-8	7-2	7-8	8-2	8-7

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 150 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.150
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span:		400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0
225.00	1-7	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-5	2-7
250.00	1-11	2-1	2-2	2-4	2-6	2-7	2-9	2-10	3-0	3-2
275.00	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-10
300.00	2-9	2-11	3-2	3-4	3-7	3-9	3-11	4-2	4-4	4-6
325.00	3-3	3-5	3-8	3-11	4-2	4-5	4-8	4-10	5-1	5-4
350.00	3-9	4-0	4-3	4-7	4-10	5-1	5-4	5-8	5-11	6-2
375.00	4-3	4-7	4-11	5-3	5-6	5-10	6-2	6-6	6-9	7-1
400.00	4-11	5-3	5-7	5-11	6-4	6-8	7-0	7-4	7-8	8-0
425.00	5-6	5-11	6-4	6-9	7-1	7-6	7-11	8-4	8-8	9-1
450.00	6-2	6-7	7-1	7-6	8-0	8-5	8-11	9-4	9-9	10-2
475.00	6-11	7-4	7-11	8-5	8-11	9-5	9-11	10-5	10-10	11-4
500.00	7-7	8-2	8-9	9-3	9-10	10-5	11-0	11-6	12-0	12-7

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-4	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2
225.00	1-9	1-10	2-0	2-1	2-3	2-4	2-5	2-7	2-8	2-9
250.00	2-2	2-4	2-5	2-7	2-9	2-11	3-0	3-2	3-4	3-5
275.00	2-7	2-9	3-0	3-2	3-4	3-6	3-8	3-10	4-0	4-2
300.00	3-1	3-4	3-6	3-9	4-0	4-2	4-4	4-7	4-9	4-11
325.00	3-7	3-11	4-2	4-5	4-8	4-11	5-2	5-4	5-7	5-10
350.00	4-2	4-6	4-10	5-1	5-5	5-8	5-11	6-3	6-6	6-9
375.00	4-10	5-2	5-6	5-10	6-2	6-6	6-10	7-2	7-5	7-9
400.00	5-6	5-11	6-3	6-8	7-0	7-5	7-9	8-1	8-6	8-10
425.00	6-2	6-8	7-1	7-6	7-11	8-4	8-9	9-2	9-7	9-11
450.00	6-11	7-5	7-11	8-5	8-11	9-5	9-10	10-3	10-9	11-2
475.00	7-9	8-4	8-10	9-5	9-11	10-5	11-0	11-5	11-11	12-5
500.00	8-7	9-2	9-10	10-5	11-0	11-7	12-2	12-8	13-3	13-9

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 151 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.151
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-2	2-3	2-4	2-5	2-7	2-8	2-9	2-10	2-11	3-0
275.00	2-7	2-9	2-10	3-0	3-1	3-2	3-4	3-5	3-6	3-8
300.00	3-1	3-3	3-5	3-6	3-8	3-10	3-11	4-1	4-3	4-4
325.00	3-8	3-10	4-0	4-2	4-4	4-6	4-8	4-9	4-11	5-1
350.00	4-2	4-5	4-7	4-10	5-0	5-2	5-4	5-7	5-9	5-11
375.00	4-10	5-1	5-3	5-6	5-9	5-11	6-2	6-5	6-7	6-9
400.00	5-6	5-9	6-0	6-3	6-6	6-9	7-0	7-3	7-6	7-9
425.00	6-2	6-6	6-9	7-1	7-4	7-8	7-11	8-2	8-6	8-9
450.00	6-11	7-3	7-7	7-11	8-3	8-7	8-11	9-2	9-6	9-9
475.00	7-9	8-1	8-6	8-10	9-2	9-7	9-11	10-3	10-7	10-11
500.00	8-7	9-0	9-5	9-10	10-2	10-7	11-0	11-4	11-9	12-1
525.00	9-6	9-11	10-4	10-10	11-3	11-8	12-1	12-6	12-11	13-4
550.00	10-5	10-11	11-4	11-10	12-4	12-10	13-3	13-9	14-2	14-7
575.00	11-4	11-11	12-5	13-0	13-6	14-0	14-6	15-0	15-6	16-0
600.00	12-4	12-11	13-6	14-1	14-8	15-3	15-10	16-4	16-10	17-5
625.00	13-5	14-1	14-8	15-4	15-11	16-7	17-2	17-9	18-4	18-11

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Span = 100 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.876	0.47	2311	0.36	3000*
20	0	0	0	0.52	0.19	3379	0.17	3841
30	0	0	0	0.52	0.22	2969	0.18	3543
40	0	0	0	0.52	0.25	2565	0.2	3239
50	0	0	0	0.52	0.3	2170	0.22	2930
60	0	0	0	0.52	0.36	1793	0.25	2618
70	0	0	0	0.52	0.45	1445	0.28	2303
80	0	0	0	0.52	0.57	1148	0.33	1990
90	0	0	0	0.52	0.66	988	0.39	1684
100	0	0	0	0.52	0.71	913	0.47	1395
110	0	0	0	0.52	0.77	843	0.57	1139
120	0	0	0	0.52	0.83	779	0.7	929
130	0	0	0	0.52	0.9	720	0.84	770
167	0	0	0	0.52	1.17	554	1.16	563
212	0	0	0	0.52	1.51	431	1.49	436

* Design Condition

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.876	1.77	2477	1.46	3000*
20	0	0	0	0.52	0.84	3108	0.72	3604
30	0	0	0	0.52	0.95	2739	0.78	3317
40	0	0	0	0.52	1.09	2391	0.86	3029
50	0	0	0	0.52	1.25	2072	0.95	2743
60	0	0	0	0.52	1.45	1790	1.06	2462
70	0	0	0	0.52	1.68	1552	1.19	2193
80	0	0	0	0.52	1.92	1357	1.34	1940
90	0	0	0	0.52	2.17	1201	1.52	1710
100	0	0	0	0.52	2.36	1100	1.72	1509
110	0	0	0	0.52	2.48	1050	1.94	1338
120	0	0	0	0.52	2.59	1003	2.17	1197
130	0	0	0	0.52	2.71	959	2.41	1081
167	0	0	0	0.52	3.15	825	3.12	834
212	0	0	0	0.52	3.68	707	3.65	712

* Design Condition

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 153 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.153
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS									

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.876	3.77	2616	3.29	3000*
20	0	0	0	0.52	2.12	2754	1.8	3253
30	0	0	0	0.52	2.37	2464	1.95	2993
40	0	0	0	0.52	2.65	2205	2.13	2742
50	0	0	0	0.52	2.96	1980	2.34	2503
60	0	0	0	0.52	3.27	1788	2.57	2280
70	0	0	0	0.52	3.6	1627	2.82	2076
80	0	0	0	0.52	3.93	1491	3.09	1893
90	0	0	0	0.52	4.25	1378	3.38	1732
100	0	0	0	0.52	4.57	1282	3.68	1592
110	0	0	0	0.52	4.85	1207	3.98	1472
120	0	0	0	0.52	5.01	1170	4.28	1368
130	0	0	0	0.52	5.16	1134	4.58	1279
167	0	0	0	0.52	5.74	1020	5.63	1040
212	0	0	0	0.52	6.43	911	6.39	917

* Design Condition

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.876	6.46	2715	5.84	3000*
20	0	0	0	0.52	4.26	2442	3.63	2867
30	0	0	0	0.52	4.64	2242	3.91	2659
40	0	0	0	0.52	5.03	2067	4.22	2466
50	0	0	0	0.52	5.43	1917	4.55	2289
60	0	0	0	0.52	5.83	1787	4.89	2130
70	0	0	0	0.52	6.22	1674	5.24	1986
80	0	0	0	0.52	6.61	1576	5.6	1859
90	0	0	0	0.52	6.98	1491	5.96	1746
100	0	0	0	0.52	7.35	1416	6.32	1647
110	0	0	0	0.52	7.72	1350	6.68	1558
120	0	0	0	0.52	8.05	1295	7.04	1480
130	0	0	0	0.52	8.24	1265	7.38	1410
167	0	0	0	0.52	8.93	1167	8.62	1209
212	0	0	0	0.52	9.75	1069	9.7	1075

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>154 OF 360</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.154
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.876	9.84	2784	9.14	3000*
20	0	0	0	0.52	7.3	2228	6.4	2542
30	0	0	0	0.52	7.76	2096	6.79	2394
40	0	0	0	0.52	8.22	1979	7.2	2259
50	0	0	0	0.52	8.67	1877	7.61	2137
60	0	0	0	0.52	9.11	1785	8.03	2026
70	0	0	0	0.52	9.55	1704	8.44	1927
80	0	0	0	0.52	9.98	1631	8.86	1837
90	0	0	0	0.52	10.4	1566	9.27	1756
100	0	0	0	0.52	10.81	1507	9.67	1683
110	0	0	0	0.52	11.21	1453	10.07	1616
120	0	0	0	0.52	11.6	1404	10.47	1555
130	0	0	0	0.52	11.94	1364	10.85	1500
167	0	0	0	0.52	12.73	1280	12.23	1332
212	0	0	0	0.52	13.67	1192	13.61	1197
* Design Condition								

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>155 OF 360</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH811.155
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span:	300.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-0
175.00	0-7	0-8	0-9	0-10	0-10	1-0	1-1	1-2	1-3	1-4
200.00	0-10	0-10	0-11	1-0	1-2	1-3	1-4	1-6	1-8	1-9
225.00	1-0	1-1	1-2	1-4	1-5	1-7	1-9	1-11	2-1	2-3
250.00	1-3	1-4	1-6	1-7	1-9	1-11	2-2	2-4	2-7	2-9
275.00	1-6	1-8	1-10	2-0	2-2	2-4	2-7	2-10	3-1	3-4
300.00	1-10	1-11	2-2	2-4	2-7	2-10	3-1	3-5	3-8	4-0
325.00	2-1	2-4	2-6	2-9	3-0	3-4	3-8	4-0	4-4	4-8
350.00	2-5	2-8	2-11	3-2	3-6	3-10	4-3	4-7	5-0	5-5
375.00	2-10	3-1	3-4	3-8	4-0	4-5	4-10	5-3	5-9	6-3

Stringing Sag Table Using Final Sag							Ruling Span:	300.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3
175.00	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-7	1-8
200.00	0-11	1-1	1-2	1-4	1-5	1-7	1-9	1-11	2-0	2-2
225.00	1-2	1-4	1-6	1-8	1-10	2-0	2-2	2-5	2-7	2-9
250.00	1-6	1-8	1-10	2-1	2-3	2-6	2-9	2-11	3-2	3-4
275.00	1-9	2-0	2-3	2-6	2-9	3-0	3-4	3-7	3-10	4-1
300.00	2-1	2-4	2-8	2-11	3-3	3-7	3-11	4-3	4-7	4-10
325.00	2-6	2-9	3-1	3-6	3-10	4-3	4-7	5-0	5-4	5-8
350.00	2-11	3-3	3-7	4-0	4-5	4-11	5-4	5-9	6-3	6-7
375.00	3-4	3-9	4-2	4-7	5-1	5-7	6-2	6-8	7-2	7-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 158 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.158
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span: 400.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
225.00	1-2	1-3	1-4	1-5	1-7	1-8	1-9	1-11	2-0	2-1
250.00	1-5	1-6	1-8	1-9	1-11	2-1	2-2	2-4	2-6	2-7
275.00	1-9	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-0	3-2
300.00	2-0	2-2	2-4	2-7	2-9	2-11	3-2	3-4	3-7	3-9
325.00	2-5	2-7	2-9	3-0	3-3	3-6	3-8	3-11	4-2	4-5
350.00	2-9	3-0	3-3	3-6	3-9	4-0	4-3	4-7	4-10	5-1
375.00	3-2	3-5	3-9	4-0	4-4	4-7	4-11	5-3	5-7	5-10
400.00	3-8	3-11	4-3	4-7	4-11	5-3	5-7	6-0	6-4	6-8
425.00	4-1	4-5	4-9	5-2	5-6	5-11	6-4	6-9	7-2	7-7
450.00	4-7	4-11	5-4	5-9	6-2	6-8	7-1	7-7	8-0	8-5
475.00	5-1	5-6	5-11	6-5	6-11	7-5	7-11	8-5	8-11	9-5
500.00	5-8	6-1	6-7	7-1	7-8	8-2	8-9	9-4	9-11	10-5

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-9	1-10	1-11
225.00	1-4	1-6	1-7	1-9	1-10	2-0	2-1	2-3	2-4	2-5
250.00	1-8	1-10	2-0	2-1	2-3	2-5	2-7	2-9	2-10	3-0
275.00	2-0	2-2	2-5	2-7	2-9	2-11	3-1	3-4	3-6	3-8
300.00	2-5	2-7	2-10	3-1	3-3	3-6	3-9	3-11	4-2	4-4
325.00	2-10	3-1	3-4	3-7	3-10	4-1	4-4	4-7	4-10	5-1
350.00	3-3	3-7	3-10	4-2	4-6	4-9	5-1	5-4	5-8	5-11
375.00	3-9	4-1	4-5	4-9	5-1	5-6	5-10	6-2	6-6	6-9
400.00	4-3	4-8	5-0	5-5	5-10	6-3	6-7	7-0	7-4	7-9
425.00	4-10	5-3	5-8	6-2	6-7	7-0	7-5	7-11	8-4	8-9
450.00	5-5	5-11	6-4	6-10	7-4	7-10	8-4	8-10	9-4	9-9
475.00	6-0	6-7	7-1	7-8	8-3	8-9	9-4	9-10	10-4	10-11
500.00	6-8	7-3	7-10	8-6	9-1	9-9	10-4	10-11	11-6	12-1

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[illegible]

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.876	9.95	995	9.9	1000*
0	0	0	0	0.52	9.41	624	9.34	629
30	0	0	0	0.52	9.95	590	9.87	595
40	0	0	0	0.52	10.13	580	10.04	585
50	0	0	0	0.52	10.31	570	10.21	576
60	0	0	0	0.52	10.48	561	10.38	566
70	0	0	0	0.52	10.65	552	10.54	558
80	0	0	0	0.52	10.81	544	10.71	549
90	0	0	0	0.52	10.98	536	10.87	541
100	0	0	0	0.52	11.09	530	11.03	533
110	0	0	0	0.52	11.19	526	11.18	526
120	0	0	0	0.52	11.3	521	11.3	521
130	0	0	0	0.52	11.4	516	11.4	516
167	0	0	0	0.52	11.78	500	11.78	500
212	0	0	0	0.52	12.22	482	12.22	482

* Design Condition

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.876	17.71	997	17.65	1000*
0	0	0	0	0.52	17.17	610	17.09	613
30	0	0	0	0.52	17.72	592	17.63	595
40	0	0	0	0.52	17.9	586	17.8	589
50	0	0	0	0.52	18.07	580	17.97	583
60	0	0	0	0.52	18.25	575	18.15	578
70	0	0	0	0.52	18.43	569	18.32	573
80	0	0	0	0.52	18.6	564	18.49	567
90	0	0	0	0.52	18.77	559	18.65	562
100	0	0	0	0.52	18.9	555	18.82	557
110	0	0	0	0.52	19.01	552	18.99	553
120	0	0	0	0.52	19.13	549	19.13	549
130	0	0	0	0.52	19.24	546	19.24	546
167	0	0	0	0.52	19.64	535	19.64	535
212	0	0	0	0.52	20.12	522	20.12	522
* Design Condition								

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[illegible]

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.876	27.76	998	27.7	1000*
0	0	0	0	0.52	27.22	604	27.15	606
30	0	0	0	0.52	27.77	592	27.68	594
40	0	0	0	0.52	27.95	589	27.85	591
50	0	0	0	0.52	28.13	585	28.03	587
60	0	0	0	0.52	28.31	581	28.2	583
70	0	0	0	0.52	28.49	578	28.38	580
80	0	0	0	0.52	28.67	574	28.55	577
90	0	0	0	0.52	28.84	571	28.72	573
100	0	0	0	0.52	28.98	568	28.89	570
110	0	0	0	0.52	29.1	566	29.06	567
120	0	0	0	0.52	29.22	564	29.22	564
130	0	0	0	0.52	29.33	562	29.33	562
167	0	0	0	0.52	29.75	554	29.75	554
212	0	0	0	0.52	30.26	545	30.26	545

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>163 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH811.163</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 1000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-1	1-1	1-2	1-2	1-3	1-3	1-3	1-4	1-4	1-5
125.00	1-8	1-8	1-9	1-10	1-11	1-11	2-0	2-1	2-1	2-2
150.00	2-4	2-5	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-1
175.00	3-3	3-4	3-6	3-7	3-9	3-10	3-11	4-1	4-2	4-3
200.00	4-2	4-4	4-6	4-8	4-10	5-0	5-2	5-3	5-5	5-7
225.00	5-4	5-6	5-9	5-11	6-2	6-4	6-6	6-8	6-11	7-0
250.00	6-7	6-10	7-1	7-4	7-7	7-10	8-1	8-3	8-6	8-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-4	1-5
125.00	1-8	1-9	1-10	1-10	1-11	2-0	2-1	2-1	2-2	2-2
150.00	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-1
175.00	3-3	3-5	3-6	3-8	3-9	3-11	4-0	4-1	4-2	4-3
200.00	4-3	4-5	4-7	4-9	4-11	5-1	5-3	5-4	5-6	5-7
225.00	5-5	5-7	5-10	6-0	6-3	6-5	6-8	6-10	6-11	7-0
250.00	6-8	6-11	7-2	7-5	7-8	7-11	8-2	8-5	8-6	8-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>165 OF 360</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH811.165</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 1000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-4	4-5	4-5	4-6	4-6	4-7	4-7	4-8	4-8	4-9
225.00	5-6	5-7	5-7	5-8	5-9	5-9	5-10	5-11	5-11	6-0
250.00	6-10	6-10	6-11	7-0	7-1	7-2	7-3	7-3	7-4	7-5
275.00	8-3	8-4	8-5	8-6	8-7	8-8	8-9	8-10	8-11	9-0
300.00	9-10	9-11	10-0	10-1	10-2	10-3	10-5	10-6	10-7	10-8
325.00	11-6	11-8	11-9	11-10	12-0	12-1	12-2	12-4	12-5	12-6
350.00	13-4	13-6	13-7	13-9	13-11	14-0	14-2	14-3	14-5	14-6
375.00	15-4	15-6	15-8	15-10	15-11	16-1	16-3	16-5	16-6	16-8
400.00	17-5	17-8	17-10	18-0	18-2	18-4	18-6	18-8	18-10	19-0
425.00	19-8	19-11	20-1	20-4	20-6	20-8	20-11	21-1	21-3	21-5
450.00	22-1	22-4	22-7	22-9	23-0	23-2	23-5	23-8	23-10	24-1
475.00	24-8	24-11	25-2	25-4	25-7	25-10	26-1	26-4	26-7	26-10
500.00	27-4	27-7	27-10	28-2	28-5	28-8	28-11	29-2	29-5	29-9

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-5	4-5	4-6	4-6	4-7	4-7	4-8	4-8	4-9	4-9
225.00	5-6	5-7	5-8	5-9	5-9	5-10	5-10	5-11	6-0	6-0
250.00	6-10	6-11	7-0	7-1	7-1	7-2	7-3	7-4	7-4	7-5
275.00	8-3	8-4	8-5	8-6	8-7	8-8	8-9	8-10	8-11	9-0
300.00	9-10	9-11	10-1	10-2	10-3	10-4	10-5	10-7	10-7	10-8
325.00	11-7	11-8	11-10	11-11	12-0	12-2	12-3	12-5	12-6	12-6
350.00	13-5	13-7	13-8	13-10	14-0	14-1	14-3	14-4	14-6	14-7
375.00	15-5	15-7	15-9	15-11	16-0	16-2	16-4	16-6	16-7	16-8
400.00	17-6	17-9	17-11	18-1	18-3	18-5	18-7	18-9	18-11	19-0
425.00	19-10	20-0	20-3	20-5	20-7	20-10	21-0	21-2	21-4	21-6
450.00	22-2	22-5	22-8	22-11	23-1	23-4	23-7	23-9	23-11	24-1
475.00	24-9	25-0	25-3	25-6	25-9	26-0	26-3	26-6	26-8	26-10
500.00	27-5	27-9	28-0	28-3	28-7	28-10	29-1	29-5	29-7	29-9

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C						F						
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 167 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH811.167
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS										

Span = 100 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.876	0.74	1475	0.73	1500*
0	0	0	0	0.52	0.36	1821	0.36	1821
30	0	0	0	0.52	0.68	958	0.63	1032
40	0	0	0	0.52	0.83	781	0.76	850
50	0	0	0	0.52	0.99	657	0.91	715
60	0	0	0	0.52	1.14	571	1.05	617
70	0	0	0	0.52	1.28	508	1.19	545
80	0	0	0	0.52	1.41	460	1.33	490
90	0	0	0	0.52	1.49	436	1.45	448
100	0	0	0	0.52	1.57	415	1.57	415
110	0	0	0	0.52	1.64	397	1.64	397
120	0	0	0	0.52	1.71	381	1.71	381
130	0	0	0	0.52	1.77	367	1.77	367
167	0	0	0	0.52	2.01	324	2.01	324
212	0	0	0	0.52	2.27	287	2.27	287

* Design Condition

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.876	3	1461	2.92	1500*
0	0	0	0	0.52	2.18	1193	2.08	1252
30	0	0	0	0.52	2.91	895	2.76	944
40	0	0	0	0.52	3.13	831	2.98	875
50	0	0	0	0.52	3.35	777	3.19	817
60	0	0	0	0.52	3.56	731	3.39	767
70	0	0	0	0.52	3.76	693	3.59	725
80	0	0	0	0.52	3.95	659	3.78	689
90	0	0	0	0.52	4.14	629	3.97	657
100	0	0	0	0.52	4.27	610	4.15	628
110	0	0	0	0.52	4.37	595	4.32	603
120	0	0	0	0.52	4.48	581	4.48	581
130	0	0	0	0.52	4.59	568	4.59	568
167	0	0	0	0.52	4.96	525	4.96	525
212	0	0	0	0.52	5.39	484	5.39	484

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 169 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.169
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.876	11.86	1482	11.72	1500*
0	0	0	0	0.52	10.94	954	10.74	971
30	0	0	0	0.52	11.75	888	11.53	905
40	0	0	0	0.52	12.01	869	11.78	886
50	0	0	0	0.52	12.26	851	12.03	868
60	0	0	0	0.52	12.51	834	12.27	850
70	0	0	0	0.52	12.76	818	12.52	834
80	0	0	0	0.52	13	803	12.75	819
90	0	0	0	0.52	13.24	789	12.99	804
100	0	0	0	0.52	13.48	775	13.22	790
110	0	0	0	0.52	13.67	764	13.45	777
120	0	0	0	0.52	13.82	756	13.67	764
130	0	0	0	0.52	13.96	749	13.89	752
167	0	0	0	0.52	14.49	722	14.49	722
212	0	0	0	0.52	15.11	692	15.11	692

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 170 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.170
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.876	18.5	1487	18.34	1500*
0	0	0	0	0.52	17.57	930	17.36	941
30	0	0	0	0.52	18.38	889	18.15	900
40	0	0	0	0.52	18.65	876	18.41	888
50	0	0	0	0.52	18.91	864	18.66	876
60	0	0	0	0.52	19.17	853	18.92	864
70	0	0	0	0.52	19.43	842	19.17	853
80	0	0	0	0.52	19.68	831	19.41	842
90	0	0	0	0.52	19.93	821	19.66	832
100	0	0	0	0.52	20.18	811	19.9	822
110	0	0	0	0.52	20.41	801	20.14	812
120	0	0	0	0.52	20.57	795	20.38	803
130	0	0	0	0.52	20.72	790	20.61	794
167	0	0	0	0.52	21.29	769	21.29	769
212	0	0	0	0.52	21.96	746	21.96	746
* Design Condition								

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>171 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH811.171</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 1500 LBS</p> </div>					

Completely Revised

 New Page

Information Removed

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.171

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11
100.00	0-6	0-8	0-9	0-11	1-1	1-2	1-4	1-5	1-7	1-8
125.00	0-10	1-0	1-2	1-5	1-8	1-10	2-1	2-3	2-5	2-7
150.00	1-2	1-5	1-9	2-1	2-4	2-8	3-0	3-3	3-6	3-8
175.00	1-7	1-11	2-4	2-9	3-3	3-8	4-1	4-5	4-10	5-0
200.00	2-1	2-6	3-1	3-8	4-3	4-9	5-4	5-10	6-3	6-7

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11	0-11
100.00	0-6	0-8	0-10	1-0	1-2	1-3	1-5	1-6	1-7	1-8
125.00	0-10	1-1	1-4	1-7	1-9	2-0	2-3	2-4	2-5	2-7
150.00	1-3	1-6	1-10	2-3	2-7	2-11	3-2	3-4	3-6	3-8
175.00	1-8	2-1	2-7	3-0	3-6	3-11	4-4	4-7	4-10	5-0
200.00	2-2	2-9	3-4	4-0	4-7	5-2	5-8	6-0	6-3	6-7

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SHEET 172 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.172
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-8	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1
125.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8
150.00	1-5	1-7	1-8	1-10	1-11	2-0	2-2	2-3	2-4	2-5
175.00	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-0	3-2	3-4
200.00	2-6	2-9	3-0	3-2	3-5	3-7	3-9	4-0	4-2	4-4
225.00	3-2	3-6	3-9	4-0	4-4	4-7	4-9	5-0	5-3	5-6
250.00	3-11	4-4	4-8	5-0	5-4	5-7	5-11	6-2	6-6	6-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-1
125.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-8
150.00	1-6	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-5	2-6
175.00	2-1	2-3	2-5	2-7	2-9	2-11	3-0	3-2	3-3	3-4
200.00	2-8	2-11	3-2	3-4	3-7	3-9	3-11	4-2	4-3	4-4
225.00	3-5	3-8	4-0	4-3	4-6	4-9	5-0	5-3	5-5	5-6
250.00	4-2	4-7	4-11	5-3	5-7	5-11	6-2	6-6	6-8	6-10

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 173 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.173
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span: 400.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-10	2-11	2-11	3-0	3-1	3-2	3-2	3-3	3-4	3-4
225.00	3-7	3-8	3-9	3-10	3-11	3-11	4-0	4-1	4-2	4-3
250.00	4-5	4-6	4-7	4-8	4-9	4-11	5-0	5-1	5-2	5-3
275.00	5-4	5-5	5-7	5-8	5-10	5-11	6-0	6-2	6-3	6-4
300.00	6-4	6-6	6-7	6-9	6-11	7-0	7-2	7-4	7-5	7-7
325.00	7-5	7-7	7-9	7-11	8-1	8-3	8-5	8-7	8-9	8-10
350.00	8-7	8-10	9-0	9-2	9-5	9-7	9-9	9-11	10-1	10-4
375.00	9-11	10-2	10-4	10-7	10-9	11-0	11-2	11-5	11-7	11-10
400.00	11-3	11-6	11-9	12-0	12-3	12-6	12-9	13-0	13-3	13-5
425.00	12-9	13-0	13-4	13-7	13-10	14-2	14-5	14-8	14-11	15-2
450.00	14-3	14-7	14-11	15-3	15-6	15-10	16-2	16-5	16-9	17-0
475.00	15-11	16-3	16-7	17-0	17-4	17-8	18-0	18-4	18-8	19-0
500.00	17-7	18-0	18-5	18-10	19-2	19-7	19-11	20-4	20-8	21-0

Stringing Sag Table Using Final Sag							Ruling Span:		400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-10	2-11	3-0	3-1	3-2	3-2	3-3	3-4	3-4	3-5
225.00	3-8	3-9	3-10	3-11	3-11	4-0	4-1	4-2	4-3	4-4
250.00	4-6	4-7	4-8	4-9	4-11	5-0	5-1	5-2	5-3	5-4
275.00	5-5	5-7	5-8	5-10	5-11	6-0	6-2	6-3	6-4	6-5
300.00	6-5	6-7	6-9	6-11	7-0	7-2	7-4	7-5	7-7	7-8
325.00	7-7	7-9	7-11	8-1	8-3	8-5	8-7	8-9	8-11	9-0
350.00	8-9	9-0	9-2	9-5	9-7	9-9	9-11	10-2	10-4	10-6
375.00	10-1	10-4	10-7	10-9	11-0	11-3	11-5	11-8	11-10	12-0
400.00	11-6	11-9	12-0	12-3	12-6	12-9	13-0	13-3	13-6	13-8
425.00	13-0	13-3	13-7	13-10	14-2	14-5	14-8	14-11	15-3	15-5
450.00	14-6	14-10	15-2	15-6	15-10	16-2	16-6	16-9	17-1	17-4
475.00	16-2	16-7	16-11	17-4	17-8	18-0	18-4	18-8	19-0	19-3
500.00	17-11	18-4	18-9	19-2	19-7	19-11	20-4	20-8	21-1	21-5

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>175 OF 360</h2> </div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH811.175	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.876	2.29	1912	2.19	2000*
0	0	0	0	0.52	1.38	1882	1.3	1996
30	0	0	0	0.52	2.08	1250	1.88	1384
40	0	0	0	0.52	2.33	1116	2.1	1237
50	0	0	0	0.52	2.58	1010	2.33	1115
60	0	0	0	0.52	2.81	925	2.56	1016
70	0	0	0	0.52	3.04	855	2.79	934
80	0	0	0	0.52	3.27	797	3.01	866
90	0	0	0	0.52	3.48	749	3.22	809
100	0	0	0	0.52	3.64	715	3.42	761
110	0	0	0	0.52	3.76	693	3.62	719
120	0	0	0	0.52	3.87	672	3.81	683
130	0	0	0	0.52	3.99	653	3.99	653
167	0	0	0	0.52	4.39	593	4.39	593
212	0	0	0	0.52	4.85	537	4.85	537

* Design Condition

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 177 OF 360		Indicates Latest Revision									OH811.177
		Completely Revised X New Page Information Removed									
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.876	9.01	1947	8.77	2000*
0	0	0	0	0.52	7.69	1354	7.34	1418
30	0	0	0	0.52	8.73	1194	8.34	1250
40	0	0	0	0.52	9.05	1151	8.65	1204
50	0	0	0	0.52	9.37	1112	8.97	1162
60	0	0	0	0.52	9.68	1077	9.27	1124
70	0	0	0	0.52	9.98	1044	9.57	1089
80	0	0	0	0.52	10.28	1014	9.86	1057
90	0	0	0	0.52	10.57	987	10.15	1027
100	0	0	0	0.52	10.85	961	10.43	1000
110	0	0	0	0.52	11.13	937	10.71	974
120	0	0	0	0.52	11.33	921	10.98	950
130	0	0	0	0.52	11.5	908	11.25	928
167	0	0	0	0.52	12.1	863	12.09	863
212	0	0	0	0.52	12.8	816	12.8	816
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>178 OF 360</h2> </div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH811.178	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.876	14	1961	13.73	2000*
0	0	0	0	0.52	12.64	1289	12.24	1331
30	0	0	0	0.52	13.7	1190	13.27	1228
40	0	0	0	0.52	14.04	1161	13.6	1198
50	0	0	0	0.52	14.37	1135	13.93	1170
60	0	0	0	0.52	14.7	1109	14.25	1144
70	0	0	0	0.52	15.02	1086	14.56	1120
80	0	0	0	0.52	15.33	1064	14.87	1096
90	0	0	0	0.52	15.64	1043	15.18	1074
100	0	0	0	0.52	15.95	1023	15.48	1054
110	0	0	0	0.52	16.25	1004	15.78	1034
120	0	0	0	0.52	16.53	988	16.07	1015
130	0	0	0	0.52	16.71	977	16.36	998
167	0	0	0	0.52	17.37	940	17.37	940
212	0	0	0	0.52	18.16	900	18.15	900

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>179 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	<input checked="" type="checkbox"/> New Page	Information Removed	<div style="text-align: center;"> <p>OH811.179</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 2000 LBS</p> </div>				

Completely Revised

	X
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Information Removed

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.179

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11
125.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
150.00	0-11	1-1	1-2	1-4	1-5	1-7	1-8	1-10	1-11	2-0
175.00	1-3	1-5	1-7	1-9	2-0	2-2	2-4	2-6	2-7	2-9
200.00	1-8	1-11	2-1	2-4	2-7	2-9	3-0	3-3	3-5	3-7
225.00	2-1	2-5	2-8	2-11	3-3	3-6	3-10	4-1	4-4	4-7
250.00	2-7	2-11	3-3	3-8	4-0	4-4	4-8	5-0	5-4	5-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11	0-11
125.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6
150.00	1-0	1-2	1-4	1-5	1-7	1-9	1-10	1-11	2-1	2-1
175.00	1-5	1-7	1-9	2-0	2-2	2-4	2-6	2-8	2-9	2-11
200.00	1-10	2-1	2-4	2-7	2-10	3-1	3-3	3-6	3-8	3-9
225.00	2-4	2-8	2-11	3-3	3-7	3-10	4-2	4-5	4-7	4-9
250.00	2-10	3-3	3-8	4-0	4-5	4-9	5-1	5-5	5-8	5-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>181 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH811.181</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 2000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-1	1-2	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8
175.00	1-5	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3
200.00	1-11	2-0	2-2	2-3	2-5	2-6	2-8	2-9	2-10	3-0
225.00	2-5	2-7	2-9	2-10	3-0	3-2	3-4	3-6	3-7	3-9
250.00	2-11	3-2	3-4	3-7	3-9	3-11	4-1	4-3	4-6	4-8
275.00	3-7	3-10	4-1	4-3	4-6	4-9	5-0	5-2	5-5	5-7
300.00	4-3	4-6	4-10	5-1	5-5	5-8	5-11	6-2	6-5	6-8
325.00	5-0	5-4	5-8	6-0	6-4	6-8	6-11	7-3	7-7	7-10
350.00	5-9	6-2	6-7	6-11	7-4	7-8	8-1	8-5	8-9	9-1
375.00	6-7	7-1	7-6	8-0	8-5	8-10	9-3	9-8	10-1	10-5

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-8	1-8	1-9
175.00	1-7	1-8	1-9	1-10	1-11	2-1	2-2	2-3	2-4	2-5
200.00	2-0	2-2	2-3	2-5	2-7	2-8	2-9	2-11	3-0	3-1
225.00	2-7	2-9	2-11	3-1	3-3	3-5	3-6	3-8	3-10	3-11
250.00	3-2	3-4	3-7	3-9	4-0	4-2	4-4	4-6	4-9	4-10
275.00	3-10	4-1	4-4	4-7	4-10	5-1	5-3	5-6	5-8	5-10
300.00	4-6	4-10	5-2	5-5	5-9	6-0	6-3	6-6	6-9	7-0
325.00	5-4	5-8	6-1	6-5	6-9	7-1	7-4	7-8	8-0	8-2
350.00	6-2	6-7	7-0	7-5	7-10	8-2	8-6	8-11	9-3	9-6
375.00	7-1	7-7	8-1	8-6	8-11	9-5	9-10	10-3	10-7	10-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 182 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.182
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS					

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.876	1.87	2347	1.75	2500*
0	0	0	0	0.52	1.02	2550	0.97	2694
30	0	0	0	0.52	1.57	1658	1.36	1910
40	0	0	0	0.52	1.8	1443	1.54	1687
50	0	0	0	0.52	2.05	1269	1.74	1491
60	0	0	0	0.52	2.3	1132	1.96	1325
70	0	0	0	0.52	2.55	1022	2.19	1187
80	0	0	0	0.52	2.79	934	2.42	1074
90	0	0	0	0.52	3.02	863	2.65	982
100	0	0	0	0.52	3.2	813	2.87	905
110	0	0	0	0.52	3.32	784	3.09	842
120	0	0	0	0.52	3.44	757	3.3	788
130	0	0	0	0.52	3.56	732	3.5	743
167	0	0	0	0.52	3.98	654	3.98	654
212	0	0	0	0.52	4.47	583	4.47	583

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
		<div>Indicates Latest Revision</div>		<div>Completely Revised</div>		<div>X</div>	<div>New Page</div>		<div>Information Removed</div>		
SHEET 185 OF 360		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									OH811.185
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.876	11.37	2413	10.97	2500*
0	0	0	0	0.52	9.58	1698	8.99	1810
30	0	0	0	0.52	10.84	1502	10.19	1598
40	0	0	0	0.52	11.24	1449	10.57	1540
50	0	0	0	0.52	11.63	1401	10.95	1486
60	0	0	0	0.52	12.01	1356	11.33	1437
70	0	0	0	0.52	12.38	1315	11.7	1392
80	0	0	0	0.52	12.75	1278	12.06	1351
90	0	0	0	0.52	13.11	1243	12.42	1312
100	0	0	0	0.52	13.46	1211	12.77	1276
110	0	0	0	0.52	13.8	1181	13.11	1243
120	0	0	0	0.52	14.14	1153	13.45	1212
130	0	0	0	0.52	14.39	1133	13.78	1183
167	0	0	0	0.52	15.12	1079	14.96	1090
212	0	0	0	0.52	15.98	1021	15.96	1023

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>187 OF 360</p> </div>	Indicates Latest Revision		Completely Revised	<div style="border: 1px solid black; padding: 2px;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH811.187</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 2500 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-4	0-4	0-5	0-6	0-7	0-8
100.00	0-3	0-4	0-4	0-5	0-6	0-8	0-9	0-11	1-1	1-3
125.00	0-5	0-6	0-7	0-8	0-10	1-0	1-3	1-6	1-8	1-11
150.00	0-7	0-8	0-10	1-0	1-2	1-6	1-9	2-1	2-5	2-9
175.00	0-10	0-11	1-1	1-4	1-7	2-0	2-5	2-10	3-4	3-9
200.00	1-1	1-3	1-5	1-9	2-1	2-7	3-2	3-9	4-4	4-10

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-4	0-5	0-6	0-7	0-7	0-8	0-8
100.00	0-3	0-4	0-5	0-6	0-8	0-10	1-0	1-1	1-2	1-3
125.00	0-5	0-6	0-8	0-10	1-1	1-4	1-6	1-8	1-10	1-11
150.00	0-8	0-9	1-0	1-2	1-6	1-10	2-3	2-5	2-7	2-9
175.00	0-11	1-1	1-4	1-8	2-1	2-6	3-0	3-4	3-6	3-9
200.00	1-2	1-5	1-8	2-2	2-8	3-4	3-11	4-4	4-7	4-11

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Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-9
125.00	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2
150.00	0-8	0-9	0-10	1-0	1-1	1-3	1-4	1-6	1-7	1-9
175.00	0-11	1-1	1-2	1-4	1-6	1-8	1-10	2-0	2-2	2-4
200.00	1-2	1-4	1-7	1-9	2-0	2-2	2-5	2-8	2-10	3-1
225.00	1-6	1-9	1-11	2-2	2-6	2-9	3-1	3-4	3-8	3-11
250.00	1-11	2-2	2-5	2-9	3-1	3-5	3-9	4-2	4-6	4-10

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-5	0-5	0-6	0-7	0-8	0-8	0-9	0-10	0-10
125.00	0-6	0-7	0-8	0-10	0-11	1-0	1-1	1-2	1-3	1-4
150.00	0-9	0-11	1-0	1-2	1-4	1-5	1-7	1-8	1-10	1-10
175.00	1-0	1-2	1-5	1-7	1-9	1-11	2-2	2-4	2-5	2-7
200.00	1-4	1-7	1-10	2-1	2-4	2-7	2-9	3-0	3-2	3-4
225.00	1-9	2-0	2-3	2-7	2-11	3-3	3-6	3-10	4-1	4-2
250.00	2-1	2-5	2-10	3-2	3-7	4-0	4-4	4-9	5-0	5-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 189 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.189
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-10	0-11	1-0	1-1	1-2	1-2	1-3	1-4	1-5
175.00	1-0	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-10	1-11
200.00	1-4	1-6	1-7	1-9	1-11	2-0	2-2	2-3	2-5	2-6
225.00	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-10	3-0	3-2
250.00	2-1	2-4	2-6	2-9	2-11	3-2	3-4	3-7	3-9	3-11
275.00	2-7	2-10	3-1	3-4	3-7	3-10	4-1	4-3	4-6	4-9
300.00	3-1	3-4	3-8	3-11	4-3	4-6	4-10	5-1	5-5	5-8
325.00	3-7	3-11	4-3	4-7	5-0	5-4	5-8	6-0	6-4	6-8
350.00	4-2	4-7	4-11	5-4	5-9	6-2	6-7	6-11	7-4	7-8
375.00	4-9	5-3	5-8	6-2	6-7	7-1	7-6	8-0	8-5	8-10

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-6
175.00	1-2	1-3	1-5	1-6	1-7	1-9	1-10	1-11	2-0	2-1
200.00	1-6	1-8	1-10	1-11	2-1	2-3	2-4	2-6	2-7	2-9
225.00	1-11	2-1	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-5
250.00	2-5	2-7	2-10	3-1	3-3	3-6	3-8	3-11	4-1	4-3
275.00	2-11	3-2	3-5	3-8	4-0	4-3	4-6	4-9	4-11	5-2
300.00	3-5	3-9	4-1	4-5	4-9	5-0	5-4	5-7	5-11	6-2
325.00	4-0	4-5	4-10	5-2	5-6	5-11	6-3	6-7	6-11	7-2
350.00	4-8	5-1	5-7	6-0	6-5	6-10	7-3	7-8	8-0	8-4
375.00	5-4	5-10	6-5	6-11	7-5	7-10	8-4	8-9	9-2	9-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>190 OF 360</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH811.190	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.876	6.24	2812	5.84	3000*
0	0	0	0	0.52	4.39	2372	3.91	2659
30	0	0	0	0.52	5.56	1871	4.88	2133
40	0	0	0	0.52	5.96	1747	5.23	1991
50	0	0	0	0.52	6.35	1640	5.58	1864
60	0	0	0	0.52	6.73	1546	5.94	1751
70	0	0	0	0.52	7.11	1465	6.3	1651
80	0	0	0	0.52	7.48	1393	6.66	1563
90	0	0	0	0.52	7.83	1330	7.02	1484
100	0	0	0	0.52	8.18	1273	7.36	1414
110	0	0	0	0.52	8.52	1222	7.71	1352
120	0	0	0	0.52	8.83	1180	8.04	1295
130	0	0	0	0.52	9.01	1156	8.37	1245
167	0	0	0	0.52	9.69	1076	9.52	1094
212	0	0	0	0.52	10.49	995	10.46	997

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 194 OF 360		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH811.194
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS											

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.876	9.63	2845	9.14	3000*
0	0	0	0	0.52	7.51	2166	6.79	2395
30	0	0	0	0.52	8.87	1834	8.02	2029
40	0	0	0	0.52	9.31	1747	8.43	1930
50	0	0	0	0.52	9.74	1670	8.84	1840
60	0	0	0	0.52	10.17	1601	9.25	1759
70	0	0	0	0.52	10.58	1538	9.65	1686
80	0	0	0	0.52	10.99	1482	10.05	1619
90	0	0	0	0.52	11.38	1430	10.44	1559
100	0	0	0	0.52	11.77	1383	10.83	1503
110	0	0	0	0.52	12.15	1341	11.21	1452
120	0	0	0	0.52	12.52	1301	11.58	1406
130	0	0	0	0.52	12.83	1270	11.95	1363
167	0	0	0	0.52	13.6	1198	13.25	1230
212	0	0	0	0.52	14.51	1124	14.47	1127

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>195 OF 360</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH811.195</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 3000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8
125.00	0-4	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0
150.00	0-6	0-7	0-8	0-9	0-10	1-0	1-1	1-3	1-4	1-6
175.00	0-9	0-10	0-11	1-0	1-2	1-4	1-6	1-8	1-10	2-0
200.00	0-11	1-1	1-2	1-4	1-6	1-9	1-11	2-2	2-5	2-7
225.00	1-2	1-4	1-6	1-8	1-11	2-2	2-5	2-9	3-0	3-4
250.00	1-6	1-8	1-10	2-1	2-4	2-8	3-0	3-4	3-9	4-1

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-9	0-9
125.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2
150.00	0-7	0-8	0-10	0-11	1-1	1-3	1-4	1-6	1-7	1-8
175.00	0-10	0-11	1-1	1-3	1-5	1-8	1-10	2-0	2-2	2-3
200.00	1-1	1-3	1-5	1-8	1-11	2-2	2-5	2-8	2-10	3-0
225.00	1-4	1-7	1-10	2-1	2-5	2-9	3-0	3-4	3-7	3-9
250.00	1-8	1-11	2-3	2-7	3-0	3-4	3-9	4-2	4-5	4-8

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3
175.00	0-10	0-10	0-11	1-1	1-2	1-3	1-4	1-5	1-7	1-8
200.00	1-0	1-2	1-3	1-4	1-6	1-8	1-9	1-11	2-0	2-2
225.00	1-4	1-5	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9
250.00	1-7	1-9	1-11	2-2	2-4	2-7	2-9	3-0	3-2	3-4
275.00	2-0	2-2	2-4	2-7	2-10	3-1	3-4	3-7	3-10	4-1
300.00	2-4	2-7	2-10	3-1	3-4	3-8	4-0	4-3	4-7	4-10
325.00	2-9	3-0	3-4	3-7	3-11	4-4	4-8	5-0	5-4	5-8
350.00	3-2	3-6	3-10	4-2	4-7	5-0	5-5	5-10	6-2	6-7
375.00	3-8	4-0	4-5	4-10	5-3	5-9	6-2	6-8	7-2	7-7

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-4
175.00	0-11	1-0	1-2	1-3	1-4	1-6	1-7	1-8	1-9	1-10
200.00	1-2	1-4	1-6	1-7	1-9	1-11	2-1	2-2	2-4	2-5
225.00	1-6	1-8	1-10	2-1	2-3	2-5	2-7	2-9	2-11	3-1
250.00	1-11	2-1	2-4	2-6	2-9	3-0	3-3	3-5	3-8	3-10
275.00	2-3	2-6	2-10	3-1	3-4	3-7	3-11	4-2	4-5	4-7
300.00	2-8	3-0	3-4	3-8	4-0	4-4	4-7	4-11	5-3	5-6
325.00	3-2	3-6	3-11	4-3	4-8	5-1	5-5	5-9	6-2	6-5
350.00	3-8	4-1	4-6	5-0	5-5	5-10	6-3	6-9	7-1	7-6
375.00	4-3	4-8	5-2	5-9	6-3	6-9	7-3	7-8	8-2	8-7

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[illegible]

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.314	42.26	1000	42.25	1000*
20	0	0	0	0.52	41.72	400	41.69	401
30	0	0	0	0.52	41.84	399	41.81	400
40	0	0	0	0.52	41.97	398	41.93	398
50	0	0	0	0.52	42.09	397	42.05	397
60	0	0	0	0.52	42.21	396	42.17	396
70	0	0	0	0.52	42.33	395	42.29	395
80	0	0	0	0.52	42.45	394	42.41	394
90	0	0	0	0.52	42.55	393	42.52	393
100	0	0	0	0.52	42.63	392	42.63	392
110	0	0	0	0.52	42.71	392	42.71	392
120	0	0	0	0.52	42.79	391	42.79	391
130	0	0	0	0.52	42.87	390	42.87	390
167	0	0	0	0.52	43.17	388	43.17	388
212	0	0	0	0.52	43.53	385	43.53	385
* Design Condition								

* Design Condition

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>203 OF 360</p> </div>	Indicates Latest Revision		Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH811.203</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 1000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-2
100.00	1-1	1-2	1-4	1-5	1-7	1-8	1-9	1-11	1-11	2-0
125.00	1-8	1-10	2-1	2-3	2-5	2-8	2-9	2-11	3-1	3-2
150.00	2-4	2-8	3-0	3-3	3-6	3-9	4-0	4-3	4-5	4-6
175.00	3-3	3-8	4-1	4-5	4-10	5-2	5-6	5-9	6-0	6-2
200.00	4-3	4-9	5-4	5-10	6-3	6-9	7-2	7-7	7-10	8-1

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-1	1-2
100.00	1-1	1-3	1-4	1-6	1-7	1-9	1-10	1-11	1-11	2-0
125.00	1-8	1-11	2-2	2-4	2-6	2-8	2-10	2-11	3-1	3-2
150.00	2-5	2-9	3-1	3-4	3-7	3-11	4-1	4-3	4-5	4-6
175.00	3-4	3-9	4-2	4-7	4-11	5-3	5-7	5-9	6-0	6-2
200.00	4-4	4-11	5-5	6-0	6-5	6-11	7-4	7-7	7-10	8-1

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 204 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.204
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-6	1-6	1-7	1-7	1-8	1-8	1-8	1-9	1-9	1-9
125.00	2-4	2-5	2-5	2-6	2-7	2-7	2-8	2-8	2-9	2-9
150.00	3-5	3-6	3-6	3-7	3-8	3-9	3-10	3-10	3-11	3-11
175.00	4-7	4-9	4-10	4-11	5-0	5-1	5-2	5-3	5-4	5-5
200.00	6-0	6-2	6-3	6-5	6-6	6-8	6-9	6-10	7-0	7-0
225.00	7-8	7-10	7-11	8-1	8-3	8-5	8-7	8-8	8-10	8-11
250.00	9-5	9-8	9-10	10-0	10-2	10-5	10-7	10-9	10-11	11-0

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-6	1-7	1-7	1-7	1-8	1-8	1-8	1-9	1-9	1-9
125.00	2-4	2-5	2-6	2-6	2-7	2-7	2-8	2-8	2-9	2-9
150.00	3-5	3-6	3-7	3-7	3-8	3-9	3-10	3-10	3-11	3-11
175.00	4-8	4-9	4-10	4-11	5-0	5-1	5-2	5-3	5-4	5-5
200.00	6-1	6-2	6-4	6-5	6-7	6-8	6-10	6-11	7-0	7-0
225.00	7-8	7-10	8-0	8-2	8-4	8-6	8-7	8-9	8-10	8-11
250.00	9-6	9-8	9-11	10-1	10-3	10-5	10-8	10-9	10-11	11-0

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 205 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.205
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-7	3-7	3-8	3-8	3-8	3-9	3-9	3-10	3-10	3-10
175.00	4-11	4-11	5-0	5-0	5-1	5-1	5-1	5-2	5-2	5-3
200.00	6-5	6-5	6-6	6-6	6-7	6-8	6-8	6-9	6-9	6-10
225.00	8-1	8-2	8-3	8-3	8-4	8-5	8-6	8-6	8-7	8-8
250.00	10-0	10-1	10-2	10-3	10-4	10-5	10-6	10-7	10-7	10-8
275.00	12-1	12-2	12-3	12-4	12-6	12-7	12-8	12-9	12-10	12-11
300.00	14-4	14-6	14-7	14-9	14-10	15-0	15-1	15-2	15-4	15-5
325.00	16-10	17-0	17-2	17-4	17-5	17-7	17-9	17-10	18-0	18-1
350.00	19-7	19-9	19-11	20-1	20-3	20-5	20-7	20-9	20-10	21-0
375.00	22-6	22-8	22-10	23-1	23-3	23-5	23-7	23-10	24-0	24-1

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-7	3-7	3-8	3-8	3-9	3-9	3-9	3-10	3-10	3-10
175.00	4-11	4-11	5-0	5-0	5-1	5-1	5-2	5-2	5-2	5-3
200.00	6-5	6-5	6-6	6-7	6-7	6-8	6-9	6-9	6-9	6-10
225.00	8-1	8-2	8-3	8-4	8-4	8-5	8-6	8-7	8-7	8-8
250.00	10-0	10-1	10-2	10-3	10-4	10-5	10-6	10-7	10-7	10-8
275.00	12-1	12-2	12-4	12-5	12-6	12-7	12-9	12-9	12-10	12-11
300.00	14-5	14-6	14-8	14-9	14-11	15-0	15-2	15-3	15-4	15-5
325.00	16-11	17-1	17-2	17-4	17-6	17-8	17-9	17-11	18-0	18-1
350.00	19-7	19-10	20-0	20-2	20-4	20-6	20-8	20-9	20-10	21-0
375.00	22-6	22-9	22-11	23-1	23-4	23-6	23-8	23-10	24-0	24-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 206 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.206
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-6	6-7	6-7	6-7	6-8	6-8	6-8	6-9	6-9	6-9
225.00	8-3	8-4	8-4	8-4	8-5	8-5	8-6	8-6	8-7	8-7
250.00	10-2	10-3	10-4	10-4	10-5	10-5	10-6	10-6	10-7	10-7
275.00	12-4	12-5	12-6	12-6	12-7	12-8	12-8	12-9	12-9	12-10
300.00	14-8	14-9	14-10	14-11	15-0	15-0	15-1	15-2	15-3	15-3
325.00	17-3	17-4	17-5	17-6	17-7	17-8	17-9	17-10	17-11	17-11
350.00	20-0	20-1	20-3	20-4	20-5	20-6	20-7	20-8	20-9	20-10
375.00	23-0	23-1	23-3	23-4	23-5	23-6	23-8	23-9	23-10	23-11
400.00	26-2	26-4	26-5	26-7	26-8	26-10	26-11	27-0	27-2	27-3
425.00	29-7	29-9	29-10	30-0	30-2	30-3	30-5	30-6	30-8	30-9
450.00	33-2	33-4	33-6	33-8	33-10	34-0	34-1	34-3	34-5	34-6
475.00	37-0	37-2	37-4	37-6	37-9	37-11	38-1	38-3	38-4	38-6
500.00	41-1	41-3	41-5	41-8	41-10	42-0	42-2	42-5	42-7	42-8

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-6	6-7	6-7	6-7	6-8	6-8	6-9	6-9	6-9	6-9
225.00	8-3	8-4	8-4	8-5	8-5	8-6	8-6	8-6	8-7	8-7
250.00	10-3	10-3	10-4	10-4	10-5	10-5	10-6	10-6	10-7	10-7
275.00	12-4	12-5	12-6	12-6	12-7	12-8	12-8	12-9	12-9	12-10
300.00	14-9	14-9	14-10	14-11	15-0	15-1	15-2	15-2	15-3	15-3
325.00	17-3	17-4	17-5	17-6	17-7	17-8	17-9	17-10	17-11	17-11
350.00	20-1	20-2	20-3	20-4	20-5	20-6	20-7	20-8	20-9	20-10
375.00	23-0	23-2	23-3	23-4	23-6	23-7	23-8	23-9	23-10	23-11
400.00	26-3	26-4	26-6	26-7	26-9	26-10	27-0	27-1	27-2	27-3
425.00	29-8	29-9	29-11	30-1	30-2	30-4	30-6	30-7	30-8	30-9
450.00	33-3	33-5	33-7	33-9	33-10	34-0	34-2	34-4	34-5	34-6
475.00	37-1	37-3	37-5	37-7	37-9	37-11	38-1	38-3	38-4	38-6
500.00	41-1	41-4	41-6	41-8	41-11	42-1	42-3	42-5	42-7	42-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 207 OF 360		Indicates Latest Revision			Completely Revised X New Page			Information Removed			OH811.207
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	10-4	10-5	10-5	10-5	10-6	10-6	10-6	10-7	10-7	10-7
275.00	12-6	12-7	12-7	12-8	12-8	12-9	12-9	12-9	12-10	12-10
300.00	14-11	15-0	15-0	15-1	15-1	15-2	15-2	15-3	15-3	15-3
325.00	17-6	17-7	17-7	17-8	17-9	17-9	17-10	17-10	17-11	17-11
350.00	20-4	20-5	20-5	20-6	20-7	20-7	20-8	20-9	20-9	20-10
375.00	23-4	23-5	23-6	23-7	23-7	23-8	23-9	23-10	23-11	23-11
400.00	26-7	26-8	26-9	26-10	26-11	27-0	27-1	27-1	27-2	27-3
425.00	30-1	30-2	30-3	30-4	30-5	30-6	30-7	30-8	30-9	30-9
450.00	33-9	33-10	33-11	34-0	34-1	34-2	34-3	34-5	34-6	34-6
475.00	37-7	37-8	37-10	37-11	38-0	38-2	38-3	38-4	38-5	38-6
500.00	41-8	41-10	41-11	42-1	42-2	42-3	42-5	42-6	42-8	42-9
525.00	46-0	46-2	46-3	46-5	46-6	46-8	46-10	46-11	47-1	47-2
550.00	50-7	50-8	50-10	51-0	51-1	51-3	51-5	51-7	51-8	51-9
575.00	55-4	55-6	55-7	55-9	55-11	56-1	56-3	56-5	56-7	56-8
600.00	60-3	60-5	60-7	60-10	61-0	61-2	61-4	61-6	61-8	61-9
625.00	65-6	65-8	65-10	66-1	66-3	66-5	66-7	66-10	67-0	67-1

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<div style="text-align: center;"> <p>SHEET</p> <p>208 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH811.208</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 1000 LBS</p> </div>					

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.314	4.44	1484	4.39	1500*
20	0	0	0	0.52	3.47	751	3.37	773
30	0	0	0	0.52	3.67	709	3.57	730
40	0	0	0	0.52	3.87	673	3.76	693
50	0	0	0	0.52	4.06	642	3.94	660
60	0	0	0	0.52	4.24	615	4.12	632
70	0	0	0	0.52	4.41	590	4.3	606
80	0	0	0	0.52	4.58	568	4.46	584
90	0	0	0	0.52	4.75	549	4.63	563
100	0	0	0	0.52	4.85	537	4.79	545
110	0	0	0	0.52	4.95	527	4.94	528
120	0	0	0	0.52	5.05	516	5.05	516
130	0	0	0	0.52	5.15	506	5.15	506
167	0	0	0	0.52	5.49	475	5.49	475
212	0	0	0	0.52	5.89	443	5.89	443

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>209 OF 360</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH811.209
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.314	27.77	1498	27.72	1500*
20	0	0	0	0.52	26.82	613	26.72	615
30	0	0	0	0.52	27	609	26.9	611
40	0	0	0	0.52	27.19	605	27.08	607
50	0	0	0	0.52	27.37	601	27.26	603
60	0	0	0	0.52	27.56	597	27.44	599
70	0	0	0	0.52	27.74	593	27.62	596
80	0	0	0	0.52	27.92	589	27.8	592
90	0	0	0	0.52	28.1	586	27.97	588
100	0	0	0	0.52	28.25	583	28.15	585
110	0	0	0	0.52	28.37	580	28.32	581
120	0	0	0	0.52	28.49	578	28.49	578
130	0	0	0	0.52	28.61	575	28.61	575
167	0	0	0	0.52	29.04	567	29.04	567
212	0	0	0	0.52	29.55	558	29.55	558

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>211 OF 360</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH811.211</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 1500 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3
125.00	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-10	1-10	1-11
150.00	1-11	2-0	2-1	2-3	2-4	2-5	2-6	2-7	2-8	2-9
175.00	2-7	2-9	2-11	3-0	3-2	3-3	3-5	3-6	3-8	3-9
200.00	3-4	3-7	3-9	3-11	4-1	4-4	4-6	4-8	4-9	4-11
225.00	4-3	4-6	4-9	5-0	5-3	5-5	5-8	5-10	6-1	6-3
250.00	5-3	5-7	5-10	6-2	6-5	6-9	7-0	7-3	7-6	7-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3
125.00	1-4	1-5	1-6	1-7	1-8	1-9	1-9	1-10	1-11	1-11
150.00	1-11	2-1	2-2	2-3	2-5	2-6	2-7	2-8	2-9	2-9
175.00	2-8	2-10	3-0	3-1	3-3	3-5	3-6	3-8	3-9	3-9
200.00	3-6	3-8	3-10	4-1	4-3	4-5	4-7	4-9	4-10	4-11
225.00	4-5	4-8	4-11	5-2	5-4	5-7	5-10	6-0	6-2	6-3
250.00	5-5	5-9	6-1	6-4	6-8	6-11	7-2	7-5	7-7	7-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 213 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.213
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-3	2-3	2-4	2-4	2-5	2-5	2-6	2-6	2-7	2-7
175.00	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-5	3-6	3-7
200.00	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
225.00	5-0	5-1	5-3	5-4	5-5	5-6	5-7	5-8	5-10	5-11
250.00	6-2	6-4	6-5	6-7	6-8	6-10	6-11	7-1	7-2	7-3
275.00	7-6	7-8	7-9	7-11	8-1	8-3	8-5	8-6	8-8	8-10
300.00	8-11	9-1	9-3	9-5	9-8	9-10	10-0	10-2	10-4	10-6
325.00	10-5	10-8	10-11	11-1	11-4	11-6	11-9	11-11	12-1	12-4
350.00	12-1	12-4	12-7	12-10	13-1	13-4	13-7	13-10	14-1	14-3
375.00	13-11	14-2	14-6	14-9	15-1	15-4	15-7	15-10	16-2	16-5

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-3	2-4	2-4	2-5	2-5	2-6	2-6	2-7	2-7	2-8
175.00	3-1	3-1	3-2	3-3	3-4	3-4	3-5	3-6	3-6	3-7
200.00	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-7	4-8
225.00	5-1	5-2	5-3	5-4	5-6	5-7	5-8	5-9	5-10	5-11
250.00	6-3	6-4	6-6	6-8	6-9	6-11	7-0	7-2	7-3	7-4
275.00	7-7	7-9	7-10	8-0	8-2	8-4	8-6	8-8	8-9	8-10
300.00	9-0	9-2	9-4	9-7	9-9	9-11	10-1	10-3	10-5	10-6
325.00	10-7	10-9	11-0	11-3	11-5	11-8	11-10	12-1	12-3	12-4
350.00	12-3	12-6	12-9	13-0	13-3	13-6	13-9	14-0	14-2	14-4
375.00	14-1	14-4	14-8	14-11	15-3	15-6	15-10	16-1	16-3	16-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 214 OF 360		Indicates Latest Revision			Completely Revised X New Page			Information Removed			OH811.214
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-8	6-8	6-9	6-10	6-10	6-11	6-11	7-0	7-0	7-1
275.00	8-1	8-1	8-2	8-3	8-3	8-4	8-5	8-5	8-6	8-7
300.00	9-7	9-8	9-9	9-9	9-10	9-11	10-0	10-1	10-1	10-2
325.00	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-9	11-10	11-11
350.00	13-1	13-2	13-3	13-4	13-5	13-6	13-7	13-8	13-9	13-10
375.00	15-0	15-1	15-3	15-4	15-5	15-6	15-7	15-8	15-10	15-11
400.00	17-1	17-2	17-4	17-5	17-6	17-8	17-9	17-11	18-0	18-1
425.00	19-3	19-5	19-7	19-8	19-10	19-11	20-1	20-2	20-4	20-5
450.00	21-8	21-9	21-11	22-1	22-3	22-4	22-6	22-8	22-9	22-11
475.00	24-1	24-3	24-5	24-7	24-9	24-11	25-1	25-3	25-5	25-7
500.00	26-9	26-11	27-1	27-3	27-5	27-7	27-10	28-0	28-2	28-4
525.00	29-6	29-8	29-10	30-1	30-3	30-6	30-8	30-10	31-1	31-3
550.00	32-4	32-7	32-10	33-0	33-3	33-5	33-8	33-11	34-1	34-4
575.00	35-5	35-7	35-10	36-1	36-4	36-7	36-10	37-1	37-3	37-6
600.00	38-7	38-10	39-1	39-4	39-7	39-10	40-1	40-4	40-7	40-10
625.00	41-10	42-2	42-5	42-8	43-0	43-3	43-6	43-10	44-1	44-4

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<div style="text-align: center;"> <p>SHEET</p> <p>216 OF 360</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH811.216</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 1500 LBS</p> </div>						

Span = 500 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.314	20.77	1991	20.68	2000*
20	0	0	0	0.52	19.32	846	19.13	855
30	0	0	0	0.52	19.58	835	19.37	844
40	0	0	0	0.52	19.83	825	19.62	833
50	0	0	0	0.52	20.08	815	19.86	823
60	0	0	0	0.52	20.32	805	20.1	814
70	0	0	0	0.52	20.57	796	20.33	804
80	0	0	0	0.52	20.8	786	20.57	795
90	0	0	0	0.52	21.04	778	20.8	787
100	0	0	0	0.52	21.28	769	21.03	778
110	0	0	0	0.52	21.48	762	21.26	770
120	0	0	0	0.52	21.63	757	21.49	762
130	0	0	0	0.52	21.78	752	21.71	754
167	0	0	0	0.52	22.33	734	22.33	734
212	0	0	0	0.52	22.97	713	22.97	713

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>219 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH811.219</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 2000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11	0-11
125.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6
150.00	1-1	1-2	1-4	1-5	1-7	1-8	1-10	1-11	2-0	2-2
175.00	1-5	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-11
200.00	1-10	2-1	2-4	2-6	2-9	3-0	3-2	3-5	3-7	3-9
225.00	2-4	2-8	2-11	3-3	3-6	3-9	4-0	4-4	4-7	4-10
250.00	2-11	3-3	3-7	4-0	4-4	4-8	5-0	5-4	5-7	5-11

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11	0-11	1-0
125.00	0-9	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-6
150.00	1-2	1-3	1-5	1-7	1-8	1-10	1-11	2-1	2-2	2-2
175.00	1-7	1-9	1-11	2-1	2-3	2-6	2-7	2-9	2-11	3-0
200.00	2-0	2-3	2-6	2-9	3-0	3-3	3-5	3-8	3-9	3-11
225.00	2-7	2-10	3-2	3-6	3-9	4-1	4-4	4-7	4-10	4-11
250.00	3-2	3-7	3-11	4-4	4-8	5-0	5-4	5-8	5-11	6-1

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 221 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.221
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span:		300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-6	1-6	1-7	1-8	1-9	1-9	1-10	1-11	1-11	2-0
175.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-8
200.00	2-7	2-9	2-10	2-11	3-0	3-2	3-3	3-4	3-5	3-6
225.00	3-3	3-5	3-7	3-9	3-10	4-0	4-1	4-3	4-4	4-6
250.00	4-1	4-3	4-5	4-7	4-9	4-11	5-1	5-3	5-5	5-6
275.00	4-11	5-2	5-4	5-7	5-9	5-11	6-2	6-4	6-6	6-8
300.00	5-10	6-1	6-4	6-7	6-10	7-1	7-4	7-6	7-9	8-0
325.00	6-10	7-2	7-6	7-9	8-0	8-4	8-7	8-10	9-1	9-4
350.00	8-0	8-4	8-8	9-0	9-4	9-8	9-11	10-3	10-7	10-10
375.00	9-2	9-7	9-11	10-4	10-8	11-1	11-5	11-9	12-1	12-5

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-6	1-7	1-8	1-8	1-9	1-10	1-11	1-11	2-0	2-0
175.00	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-9
200.00	2-8	2-10	2-11	3-0	3-2	3-3	3-4	3-5	3-7	3-7
225.00	3-5	3-7	3-8	3-10	4-0	4-1	4-3	4-4	4-6	4-7
250.00	4-2	4-5	4-7	4-9	4-11	5-1	5-3	5-5	5-7	5-8
275.00	5-1	5-4	5-6	5-9	5-11	6-2	6-4	6-6	6-9	6-10
300.00	6-1	6-4	6-7	6-10	7-1	7-4	7-7	7-9	8-0	8-2
325.00	7-1	7-5	7-9	8-0	8-4	8-7	8-10	9-1	9-5	9-7
350.00	8-3	8-7	9-0	9-4	9-8	9-11	10-3	10-7	10-11	11-1
375.00	9-6	9-11	10-3	10-8	11-1	11-5	11-9	12-2	12-6	12-9

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>222 OF 360</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH811.222	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-11	3-0	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-5
225.00	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-3	4-4
250.00	4-7	4-8	4-9	4-10	4-11	5-0	5-1	5-2	5-3	5-4
275.00	5-6	5-7	5-9	5-10	6-0	6-1	6-2	6-4	6-5	6-6
300.00	6-7	6-8	6-10	7-0	7-1	7-3	7-4	7-6	7-7	7-9
325.00	7-8	7-10	8-0	8-2	8-4	8-6	8-8	8-9	8-11	9-1
350.00	8-11	9-1	9-4	9-6	9-8	9-10	10-0	10-2	10-4	10-6
375.00	10-3	10-5	10-8	10-11	11-1	11-4	11-6	11-8	11-11	12-1
400.00	11-8	11-11	12-2	12-5	12-8	12-10	13-1	13-4	13-7	13-9
425.00	13-2	13-5	13-9	14-0	14-3	14-6	14-9	15-1	15-4	15-7
450.00	14-9	15-1	15-4	15-8	16-0	16-3	16-7	16-10	17-2	17-5
475.00	16-5	16-9	17-2	17-6	17-10	18-2	18-6	18-10	19-1	19-5
500.00	18-2	18-7	19-0	19-4	19-9	20-1	20-6	20-10	21-2	21-6

Stringing Sag Table Using Final Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-0	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-5	3-6
225.00	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-3	4-4	4-5
250.00	4-7	4-9	4-10	4-11	5-0	5-1	5-2	5-4	5-5	5-5
275.00	5-7	5-9	5-10	5-11	6-1	6-2	6-4	6-5	6-6	6-7
300.00	6-8	6-10	6-11	7-1	7-3	7-4	7-6	7-7	7-9	7-10
325.00	7-10	8-0	8-2	8-4	8-6	8-8	8-10	8-11	9-1	9-3
350.00	9-1	9-3	9-6	9-8	9-10	10-0	10-2	10-5	10-7	10-8
375.00	10-5	10-8	10-10	11-1	11-4	11-6	11-9	11-11	12-1	12-3
400.00	11-10	12-1	12-4	12-7	12-10	13-1	13-4	13-7	13-10	14-0
425.00	13-5	13-8	13-11	14-3	14-6	14-9	15-1	15-4	15-7	15-9
450.00	15-0	15-4	15-8	16-0	16-3	16-7	16-11	17-2	17-6	17-8
475.00	16-9	17-1	17-5	17-9	18-2	18-6	18-10	19-2	19-6	19-9
500.00	18-6	18-11	19-4	19-9	20-1	20-6	20-10	21-3	21-7	21-10

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SHEET 223 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.223
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS					

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 225 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.225
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.314	10.7	2464	10.54	2500*
20	0	0	0	0.52	8.7	1198	8.34	1249
30	0	0	0	0.52	9.02	1155	8.66	1204
40	0	0	0	0.52	9.34	1116	8.97	1162
50	0	0	0	0.52	9.65	1080	9.27	1124
60	0	0	0	0.52	9.96	1047	9.57	1089
70	0	0	0	0.52	10.25	1017	9.86	1057
80	0	0	0	0.52	10.54	989	10.15	1027
90	0	0	0	0.52	10.83	963	10.43	1000
100	0	0	0	0.52	11.11	939	10.71	974
110	0	0	0	0.52	11.38	917	10.98	950
120	0	0	0	0.52	11.57	902	11.24	928
130	0	0	0	0.52	11.73	890	11.51	907
167	0	0	0	0.52	12.32	847	12.32	847
212	0	0	0	0.52	13.02	802	13.02	802

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2500 LBS

OH811.226

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.314	16.65	2478	16.5	2500*
20	0	0	0	0.52	14.64	1114	14.29	1141
30	0	0	0	0.52	14.96	1090	14.6	1117
40	0	0	0	0.52	15.27	1068	14.91	1094
50	0	0	0	0.52	15.59	1047	15.21	1072
60	0	0	0	0.52	15.89	1027	15.51	1052
70	0	0	0	0.52	16.19	1008	15.81	1032
80	0	0	0	0.52	16.49	990	16.1	1014
90	0	0	0	0.52	16.78	973	16.39	996
100	0	0	0	0.52	17.07	956	16.67	979
110	0	0	0	0.52	17.35	941	16.95	963
120	0	0	0	0.52	17.59	928	17.23	948
130	0	0	0	0.52	17.77	919	17.5	933
167	0	0	0	0.52	18.4	888	18.4	888
212	0	0	0	0.52	19.15	853	19.15	853
* Design Condition								

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>227 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH811.227</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 2500 LBS</p> </div>					

Completely Revised



OH811.227

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-8	0-9
125.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2
150.00	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-5	1-7	1-8
175.00	0-10	1-0	1-1	1-3	1-5	1-7	1-9	1-11	2-1	2-3
200.00	1-2	1-3	1-5	1-8	1-10	2-1	2-4	2-6	2-9	3-0
225.00	1-5	1-7	1-10	2-1	2-4	2-8	2-11	3-3	3-6	3-9
250.00	1-9	2-0	2-3	2-7	2-11	3-3	3-7	4-0	4-4	4-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-5	0-6	0-7	0-7	0-8	0-9	0-9	0-10
125.00	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-2	1-3	1-3
150.00	0-9	0-10	1-0	1-1	1-3	1-5	1-6	1-8	1-9	1-10
175.00	1-0	1-2	1-4	1-6	1-8	1-11	2-1	2-3	2-5	2-6
200.00	1-3	1-6	1-9	1-11	2-2	2-5	2-8	2-11	3-1	3-3
225.00	1-7	1-11	2-2	2-6	2-9	3-1	3-5	3-9	3-11	4-1
250.00	2-0	2-4	2-8	3-1	3-5	3-10	4-3	4-7	4-10	5-1

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SHEET 229 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.229
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-5	1-6	1-7
175.00	1-4	1-5	1-6	1-7	1-8	1-10	1-11	2-0	2-1	2-2
200.00	1-8	1-10	2-0	2-1	2-3	2-4	2-6	2-7	2-8	2-10
225.00	2-2	2-4	2-6	2-8	2-10	3-0	3-1	3-3	3-5	3-7
250.00	2-8	2-10	3-1	3-3	3-6	3-8	3-10	4-0	4-3	4-5
275.00	3-3	3-6	3-8	3-11	4-2	4-5	4-8	4-11	5-1	5-4
300.00	3-10	4-1	4-5	4-8	5-0	5-3	5-7	5-10	6-1	6-4
325.00	4-6	4-10	5-2	5-6	5-10	6-2	6-6	6-10	7-2	7-5
350.00	5-2	5-7	6-0	6-5	6-10	7-2	7-7	7-11	8-3	8-7
375.00	6-0	6-5	6-11	7-4	7-10	8-3	8-8	9-1	9-6	9-11

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8
175.00	1-5	1-6	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3
200.00	1-10	2-0	2-2	2-3	2-5	2-6	2-8	2-9	2-11	3-0
225.00	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-9
250.00	2-11	3-1	3-4	3-6	3-9	3-11	4-2	4-4	4-6	4-8
275.00	3-6	3-9	4-0	4-3	4-6	4-9	5-0	5-3	5-5	5-7
300.00	4-2	4-6	4-9	5-1	5-5	5-8	5-11	6-3	6-6	6-8
325.00	4-10	5-3	5-7	6-0	6-4	6-8	7-0	7-4	7-7	7-10
350.00	5-8	6-1	6-6	6-11	7-4	7-9	8-1	8-6	8-10	9-1
375.00	6-6	7-0	7-6	7-11	8-5	8-10	9-4	9-9	10-1	10-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>230 OF 360</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH811.230	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-1	2-2	2-3	2-4	2-5	2-6	2-6	2-7	2-8	2-9
225.00	2-8	2-9	2-10	2-11	3-0	3-1	3-3	3-4	3-5	3-6
250.00	3-3	3-5	3-6	3-7	3-9	3-10	4-0	4-1	4-2	4-3
275.00	3-11	4-1	4-3	4-5	4-6	4-8	4-10	4-11	5-1	5-2
300.00	4-8	4-10	5-1	5-3	5-5	5-7	5-8	5-10	6-0	6-2
325.00	5-6	5-9	5-11	6-1	6-4	6-6	6-8	6-11	7-1	7-3
350.00	6-5	6-8	6-10	7-1	7-4	7-7	7-9	8-0	8-2	8-5
375.00	7-4	7-7	7-11	8-2	8-5	8-8	8-11	9-2	9-5	9-8
400.00	8-4	8-8	9-0	9-3	9-7	9-10	10-2	10-5	10-9	11-0
425.00	9-5	9-9	10-2	10-6	10-10	11-2	11-6	11-9	12-1	12-5
450.00	10-7	10-11	11-4	11-9	12-1	12-6	12-10	13-2	13-7	13-11
475.00	11-9	12-3	12-8	13-1	13-6	13-11	14-4	14-9	15-1	15-6
500.00	13-0	13-6	14-0	14-6	15-0	15-5	15-10	16-4	16-9	17-2

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-8	2-9	2-10
225.00	2-9	2-10	2-11	3-1	3-2	3-3	3-4	3-5	3-6	3-7
250.00	3-5	3-6	3-8	3-9	3-11	4-0	4-1	4-3	4-4	4-5
275.00	4-1	4-3	4-5	4-7	4-8	4-10	5-0	5-1	5-3	5-5
300.00	4-11	5-1	5-3	5-5	5-7	5-9	5-11	6-1	6-3	6-5
325.00	5-9	5-11	6-2	6-4	6-7	6-9	7-0	7-2	7-4	7-6
350.00	6-8	6-11	7-2	7-5	7-7	7-10	8-1	8-3	8-6	8-9
375.00	7-8	7-11	8-3	8-6	8-9	9-0	9-3	9-6	9-9	10-0
400.00	8-8	9-0	9-4	9-8	9-11	10-3	10-7	10-10	11-1	11-5
425.00	9-10	10-2	10-7	10-11	11-3	11-7	11-11	12-3	12-6	12-10
450.00	11-0	11-5	11-10	12-3	12-7	13-0	13-4	13-8	14-1	14-5
475.00	12-3	12-9	13-2	13-7	14-1	14-6	14-10	15-3	15-8	16-1
500.00	13-7	14-1	14-7	15-1	15-7	16-0	16-6	16-11	17-4	17-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 231 OF 360		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH811.231
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-8	3-9	3-10	3-11	4-0	4-1	4-1	4-2	4-3	4-4
275.00	4-5	4-6	4-7	4-9	4-10	4-11	5-0	5-1	5-2	5-3
300.00	5-3	5-5	5-6	5-7	5-9	5-10	5-11	6-0	6-2	6-3
325.00	6-2	6-4	6-5	6-7	6-9	6-10	7-0	7-1	7-2	7-4
350.00	7-2	7-4	7-6	7-8	7-9	7-11	8-1	8-3	8-4	8-6
375.00	8-3	8-5	8-7	8-9	8-11	9-1	9-3	9-5	9-7	9-9
400.00	9-4	9-7	9-9	10-0	10-2	10-4	10-7	10-9	10-11	11-1
425.00	10-7	10-10	11-0	11-3	11-6	11-8	11-11	12-1	12-4	12-6
450.00	11-10	12-1	12-4	12-7	12-10	13-1	13-4	13-7	13-10	14-1
475.00	13-2	13-6	13-9	14-1	14-4	14-7	14-11	15-2	15-5	15-8
500.00	14-8	14-11	15-3	15-7	15-11	16-2	16-6	16-9	17-1	17-4
525.00	16-2	16-6	16-10	17-2	17-6	17-10	18-2	18-6	18-10	19-2
550.00	17-9	18-1	18-6	18-10	19-3	19-7	19-11	20-4	20-8	21-0
575.00	19-4	19-9	20-3	20-7	21-0	21-5	21-10	22-2	22-7	23-0
600.00	21-1	21-7	22-0	22-5	22-11	23-4	23-9	24-2	24-7	25-0
625.00	22-11	23-5	23-11	24-4	24-10	25-4	25-9	26-3	26-8	27-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 232 OF 360		Indicates Latest Revision			Completely Revised		X	New Page		Information Removed		OH811.232
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS										

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 233 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.233
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.314	13.96	2951	13.73	3000*
20	0	0	0	0.52	11.33	1437	10.77	1512
30	0	0	0	0.52	11.72	1390	11.15	1461
40	0	0	0	0.52	12.1	1346	11.52	1414
50	0	0	0	0.52	12.47	1306	11.88	1371
60	0	0	0	0.52	12.84	1269	12.24	1331
70	0	0	0	0.52	13.19	1235	12.59	1294
80	0	0	0	0.52	13.54	1203	12.94	1259
90	0	0	0	0.52	13.89	1174	13.28	1227
100	0	0	0	0.52	14.22	1146	13.61	1198
110	0	0	0	0.52	14.55	1121	13.94	1170
120	0	0	0	0.52	14.87	1096	14.26	1143
130	0	0	0	0.52	15.09	1080	14.58	1118
167	0	0	0	0.52	15.8	1032	15.71	1038
212	0	0	0	0.52	16.64	981	16.63	982
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>235 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH811.235</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 3000 LBS</p> </div>					

	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed
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SHEET	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS	
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SHEET 235 OF 360	DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS	OH811.235
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<div style="text-align: center;"> <p>SHEET</p> <p>235 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH811.235</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 3000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-2	1-3
175.00	0-10	0-11	1-0	1-2	1-3	1-4	1-5	1-7	1-8	1-9
200.00	1-2	1-3	1-4	1-6	1-7	1-9	1-11	2-0	2-2	2-3
225.00	1-5	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-11
250.00	1-9	1-11	2-1	2-4	2-6	2-9	2-11	3-2	3-4	3-7
275.00	2-2	2-4	2-7	2-10	3-1	3-4	3-7	3-10	4-1	4-4
300.00	2-7	2-9	3-1	3-4	3-8	3-11	4-3	4-6	4-10	5-1
325.00	3-0	3-3	3-7	3-11	4-3	4-7	5-0	5-4	5-8	6-0
350.00	3-6	3-10	4-2	4-7	4-11	5-4	5-9	6-2	6-7	7-0
375.00	4-0	4-4	4-9	5-3	5-8	6-2	6-7	7-1	7-7	8-0

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-3	1-4	1-5
175.00	1-0	1-1	1-3	1-4	1-5	1-6	1-8	1-9	1-10	1-11
200.00	1-4	1-5	1-7	1-9	1-10	2-0	2-2	2-3	2-5	2-6
225.00	1-8	1-10	2-0	2-2	2-4	2-7	2-9	2-11	3-1	3-2
250.00	2-0	2-3	2-6	2-8	2-11	3-2	3-4	3-7	3-9	3-11
275.00	2-5	2-9	3-0	3-3	3-6	3-10	4-1	4-4	4-7	4-9
300.00	2-11	3-3	3-7	3-11	4-3	4-6	4-10	5-2	5-5	5-8
325.00	3-5	3-10	4-2	4-7	4-11	5-4	5-8	6-0	6-5	6-8
350.00	4-0	4-5	4-10	5-3	5-9	6-2	6-7	7-0	7-5	7-9
375.00	4-7	5-1	5-7	6-1	6-7	7-1	7-7	8-0	8-6	8-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>238 OF 360</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH811.238</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 3000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag							Ruling Span: 400.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3
225.00	1-11	2-0	2-1	2-3	2-4	2-5	2-6	2-8	2-9	2-10
250.00	2-4	2-5	2-7	2-9	2-10	3-0	3-2	3-3	3-5	3-6
275.00	2-10	3-0	3-2	3-4	3-6	3-8	3-9	3-11	4-1	4-3
300.00	3-4	3-6	3-9	3-11	4-2	4-4	4-6	4-8	4-10	5-1
325.00	3-11	4-2	4-5	4-7	4-10	5-1	5-3	5-6	5-9	5-11
350.00	4-6	4-10	5-1	5-4	5-7	5-11	6-2	6-5	6-8	6-10
375.00	5-3	5-6	5-10	6-2	6-5	6-9	7-1	7-4	7-7	7-11
400.00	5-11	6-3	6-8	7-0	7-4	7-8	8-0	8-4	8-8	9-0
425.00	6-8	7-1	7-6	7-11	8-3	8-8	9-1	9-5	9-9	10-2
450.00	7-6	7-11	8-5	8-10	9-3	9-9	10-2	10-7	11-0	11-4
475.00	8-4	8-10	9-4	9-10	10-4	10-10	11-4	11-9	12-3	12-8
500.00	9-3	9-10	10-5	10-11	11-6	12-0	12-6	13-0	13-6	14-0

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-7	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5
225.00	2-1	2-2	2-3	2-5	2-6	2-7	2-9	2-10	2-11	3-0
250.00	2-6	2-8	2-10	3-0	3-1	3-3	3-4	3-6	3-7	3-9
275.00	3-1	3-3	3-5	3-7	3-9	3-11	4-1	4-3	4-5	4-6
300.00	3-8	3-10	4-1	4-3	4-6	4-8	4-10	5-0	5-3	5-5
325.00	4-3	4-6	4-9	5-0	5-3	5-6	5-8	5-11	6-1	6-4
350.00	4-11	5-3	5-6	5-10	6-1	6-4	6-7	6-10	7-1	7-4
375.00	5-8	6-0	6-4	6-8	7-0	7-3	7-7	7-10	8-2	8-5
400.00	6-6	6-10	7-3	7-7	7-11	8-3	8-8	8-11	9-3	9-7
425.00	7-4	7-9	8-2	8-7	9-0	9-4	9-9	10-1	10-6	10-10
450.00	8-2	8-8	9-2	9-7	10-1	10-6	10-11	11-4	11-9	12-2
475.00	9-1	9-8	10-2	10-8	11-2	11-8	12-2	12-8	13-1	13-6
500.00	10-1	10-8	11-3	11-10	12-5	12-11	13-6	14-0	14-6	15-0

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>239 OF 360</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div> </div> <div>SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS</div> <div> <div>STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING</div> <div>397.5 - 26/7 ACSR/AW TENSION 3000 LBS</div> </div>									OH811.239

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-8	2-9	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6
275.00	3-3	3-4	3-6	3-7	3-8	3-10	3-11	4-0	4-1	4-3
300.00	3-11	4-0	4-2	4-3	4-5	4-6	4-8	4-9	4-11	5-0
325.00	4-7	4-8	4-10	5-0	5-2	5-4	5-6	5-7	5-9	5-11
350.00	5-3	5-6	5-8	5-10	6-0	6-2	6-4	6-6	6-8	6-10
375.00	6-1	6-3	6-6	6-8	6-11	7-1	7-3	7-6	7-8	7-10
400.00	6-11	7-2	7-4	7-7	7-10	8-1	8-3	8-6	8-8	8-11
425.00	7-9	8-1	8-4	8-7	8-10	9-1	9-4	9-7	9-10	10-1
450.00	8-9	9-0	9-4	9-7	9-11	10-2	10-6	10-9	11-0	11-3
475.00	9-9	10-1	10-5	10-9	11-1	11-4	11-8	12-0	12-3	12-7
500.00	10-9	11-2	11-6	11-11	12-3	12-7	12-11	13-3	13-7	13-11
525.00	11-11	12-3	12-8	13-1	13-6	13-11	14-3	14-8	15-0	15-4
550.00	13-0	13-6	13-11	14-5	14-10	15-3	15-8	16-1	16-6	16-10
575.00	14-3	14-9	15-3	15-9	16-2	16-8	17-1	17-7	18-0	18-5
600.00	15-6	16-1	16-7	17-1	17-8	18-2	18-8	19-2	19-7	20-1
625.00	16-10	17-5	18-0	18-7	19-2	19-8	20-3	20-9	21-3	21-9

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SHEET 240 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.240
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS					

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 241 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.241
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS					

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>242 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH811.242</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 1000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-7	1-8	1-8	1-8	1-9	1-9	1-9	1-10	1-10	1-10
125.00	2-6	2-7	2-7	2-8	2-8	2-9	2-9	2-10	2-10	2-10
150.00	3-7	3-8	3-9	3-10	3-10	3-11	4-0	4-1	4-1	4-2
175.00	4-11	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-7
200.00	6-5	6-6	6-8	6-9	6-10	7-0	7-1	7-2	7-3	7-4
225.00	8-1	8-3	8-5	8-7	8-8	8-10	9-0	9-1	9-3	9-4
250.00	10-0	10-2	10-5	10-7	10-9	10-11	11-1	11-3	11-5	11-6

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-7	1-8	1-8	1-8	1-9	1-9	1-9	1-10	1-10	1-10
125.00	2-6	2-7	2-7	2-8	2-8	2-9	2-9	2-10	2-10	2-10
150.00	3-7	3-8	3-9	3-10	3-11	3-11	4-0	4-1	4-1	4-2
175.00	4-11	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
200.00	6-5	6-7	6-8	6-9	6-11	7-0	7-2	7-2	7-3	7-4
225.00	8-2	8-3	8-5	8-7	8-9	8-11	9-0	9-2	9-3	9-4
250.00	10-1	10-3	10-5	10-7	10-10	11-0	11-2	11-3	11-5	11-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 245 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.245
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-8	3-8	3-9	3-9	3-9	3-10	3-10	3-11	3-11	3-11
175.00	5-0	5-1	5-1	5-1	5-2	5-2	5-3	5-3	5-4	5-4
200.00	6-6	6-7	6-8	6-8	6-9	6-10	6-10	6-11	6-11	7-0
225.00	8-3	8-4	8-5	8-6	8-6	8-7	8-8	8-9	8-9	8-10
250.00	10-3	10-4	10-5	10-6	10-7	10-8	10-8	10-9	10-10	10-11
275.00	12-4	12-6	12-7	12-8	12-9	12-10	13-0	13-1	13-2	13-2
300.00	14-9	14-10	15-0	15-1	15-2	15-4	15-5	15-7	15-8	15-9
325.00	17-4	17-5	17-7	17-9	17-10	18-0	18-1	18-3	18-4	18-6
350.00	20-1	20-3	20-5	20-7	20-9	20-11	21-0	21-2	21-4	21-5
375.00	23-1	23-3	23-5	23-7	23-10	24-0	24-2	24-4	24-6	24-7

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-8	3-9	3-9	3-9	3-10	3-10	3-10	3-11	3-11	3-11
175.00	5-0	5-1	5-1	5-2	5-2	5-3	5-3	5-3	5-4	5-4
200.00	6-7	6-7	6-8	6-9	6-9	6-10	6-10	6-11	6-11	7-0
225.00	8-3	8-4	8-5	8-6	8-7	8-8	8-8	8-9	8-9	8-10
250.00	10-3	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-10	10-11
275.00	12-5	12-6	12-7	12-8	12-10	12-11	13-0	13-1	13-2	13-2
300.00	14-9	14-11	15-0	15-1	15-3	15-4	15-6	15-7	15-8	15-9
325.00	17-4	17-6	17-7	17-9	17-11	18-0	18-2	18-3	18-4	18-6
350.00	20-1	20-3	20-5	20-7	20-9	20-11	21-1	21-3	21-4	21-5
375.00	23-1	23-4	23-6	23-8	23-10	24-1	24-3	24-4	24-6	24-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 246 OF 360		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH811.246
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS											

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-7	6-8	6-8	6-8	6-9	6-9	6-9	6-10	6-10	6-10
225.00	8-4	8-5	8-5	8-6	8-6	8-7	8-7	8-8	8-8	8-8
250.00	10-4	10-5	10-5	10-6	10-6	10-7	10-7	10-8	10-8	10-9
275.00	12-6	12-7	12-8	12-8	12-9	12-9	12-10	12-11	12-11	13-0
300.00	14-11	15-0	15-0	15-1	15-2	15-3	15-4	15-4	15-5	15-6
325.00	17-6	17-7	17-8	17-9	17-10	17-11	18-0	18-0	18-1	18-2
350.00	20-4	20-5	20-6	20-7	20-8	20-9	20-10	20-11	21-0	21-1
375.00	23-4	23-5	23-6	23-8	23-9	23-10	23-11	24-1	24-2	24-2
400.00	26-7	26-8	26-10	26-11	27-0	27-2	27-3	27-5	27-6	27-7
425.00	30-0	30-2	30-3	30-5	30-6	30-8	30-10	30-11	31-1	31-2
450.00	33-8	33-10	34-0	34-1	34-3	34-5	34-7	34-9	34-10	34-11
475.00	37-6	37-8	37-11	38-1	38-3	38-5	38-7	38-9	38-10	39-0
500.00	41-8	41-10	42-0	42-2	42-5	42-7	42-9	42-11	43-1	43-3

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-7	6-8	6-8	6-8	6-9	6-9	6-10	6-10	6-10	6-10
225.00	8-5	8-5	8-5	8-6	8-6	8-7	8-7	8-8	8-8	8-8
250.00	10-4	10-5	10-5	10-6	10-6	10-7	10-8	10-8	10-8	10-9
275.00	12-6	12-7	12-8	12-8	12-9	12-10	12-10	12-11	12-11	13-0
300.00	14-11	15-0	15-1	15-1	15-2	15-3	15-4	15-4	15-5	15-6
325.00	17-6	17-7	17-8	17-9	17-10	17-11	18-0	18-1	18-1	18-2
350.00	20-4	20-5	20-6	20-7	20-8	20-9	20-11	20-11	21-0	21-1
375.00	23-4	23-5	23-7	23-8	23-9	23-11	24-0	24-1	24-2	24-2
400.00	26-7	26-8	26-10	26-11	27-1	27-2	27-4	27-5	27-6	27-7
425.00	30-0	30-2	30-4	30-5	30-7	30-9	30-10	30-11	31-1	31-2
450.00	33-8	33-10	34-0	34-2	34-4	34-6	34-7	34-9	34-10	34-11
475.00	37-7	37-9	37-11	38-1	38-3	38-5	38-7	38-9	38-10	39-0
500.00	41-8	41-10	42-1	42-3	42-5	42-8	42-10	43-0	43-1	43-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> SHEET 247 OF 360 </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH811.247
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>249 OF 360</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH811.249
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS									


Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.314	27.74	1499	27.72	1500*
0	0	0	0	0.52	26.98	609	26.9	611
30	0	0	0	0.52	27.53	597	27.44	599
40	0	0	0	0.52	27.72	594	27.62	596
50	0	0	0	0.52	27.9	590	27.79	592
60	0	0	0	0.52	28.08	586	27.97	588
70	0	0	0	0.52	28.26	582	28.14	585
80	0	0	0	0.52	28.44	579	28.32	581
90	0	0	0	0.52	28.61	575	28.49	578
100	0	0	0	0.52	28.76	573	28.66	574
110	0	0	0	0.52	28.87	570	28.83	571
120	0	0	0	0.52	28.99	568	28.99	568
130	0	0	0	0.52	29.11	566	29.11	566
167	0	0	0	0.52	29.53	558	29.53	558
212	0	0	0	0.52	30.04	549	30.04	549

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>251 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH811.251</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 1500 LBS</p> </div>				

Completely Revised

 New Page

OH811.251

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4
125.00	1-6	1-7	1-8	1-9	1-10	1-10	1-11	2-0	2-1	2-1
150.00	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0
175.00	3-0	3-2	3-3	3-5	3-6	3-8	3-9	3-11	4-0	4-1
200.00	3-11	4-1	4-3	4-6	4-7	4-9	4-11	5-1	5-3	5-4
225.00	5-0	5-3	5-5	5-8	5-10	6-1	6-3	6-5	6-7	6-10
250.00	6-2	6-5	6-8	7-0	7-3	7-6	7-9	7-11	8-2	8-5

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-4
125.00	1-7	1-8	1-9	1-9	1-10	1-11	2-0	2-0	2-1	2-1
150.00	2-3	2-4	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-0
175.00	3-1	3-3	3-4	3-6	3-7	3-9	3-10	4-0	4-0	4-1
200.00	4-0	4-2	4-5	4-7	4-9	4-11	5-0	5-2	5-3	5-4
225.00	5-1	5-4	5-6	5-9	6-0	6-2	6-4	6-7	6-8	6-10
250.00	6-3	6-7	6-10	7-1	7-4	7-7	7-10	8-1	8-3	8-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 253 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.253
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-4	4-4	4-5	4-5	4-6	4-6	4-7	4-7	4-8	4-8
225.00	5-5	5-6	5-7	5-7	5-8	5-9	5-9	5-10	5-10	5-11
250.00	6-9	6-9	6-10	6-11	7-0	7-1	7-1	7-2	7-3	7-4
275.00	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9	8-10
300.00	9-8	9-9	9-10	10-0	10-1	10-2	10-3	10-4	10-5	10-6
325.00	11-4	11-6	11-7	11-8	11-10	11-11	12-0	12-2	12-3	12-4
350.00	13-2	13-4	13-5	13-7	13-8	13-10	14-0	14-1	14-3	14-4
375.00	15-1	15-3	15-5	15-7	15-9	15-11	16-0	16-2	16-4	16-6
400.00	17-2	17-5	17-7	17-9	17-11	18-1	18-3	18-5	18-7	18-9
425.00	19-5	19-8	19-10	20-0	20-3	20-5	20-7	20-10	21-0	21-2
450.00	21-9	22-0	22-3	22-6	22-8	22-11	23-1	23-4	23-7	23-9
475.00	24-3	24-6	24-9	25-0	25-3	25-6	25-9	26-0	26-3	26-6
500.00	26-11	27-2	27-6	27-9	28-0	28-4	28-7	28-10	29-1	29-4

Stringing Sag Table Using Final Sag							Ruling Span:		400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-4	4-4	4-5	4-5	4-6	4-6	4-7	4-8	4-8	4-8
225.00	5-6	5-6	5-7	5-8	5-8	5-9	5-10	5-10	5-11	5-11
250.00	6-9	6-10	6-11	6-11	7-0	7-1	7-2	7-3	7-3	7-4
275.00	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9	8-10	8-10
300.00	9-9	9-10	9-11	10-0	10-1	10-3	10-4	10-5	10-6	10-7
325.00	11-5	11-6	11-8	11-9	11-11	12-0	12-1	12-3	12-4	12-5
350.00	13-3	13-4	13-6	13-8	13-9	13-11	14-1	14-2	14-3	14-5
375.00	15-2	15-4	15-6	15-8	15-10	16-0	16-2	16-3	16-5	16-6
400.00	17-3	17-6	17-8	17-10	18-0	18-2	18-4	18-7	18-8	18-9
425.00	19-6	19-9	19-11	20-2	20-4	20-7	20-9	20-11	21-1	21-3
450.00	21-11	22-2	22-4	22-7	22-10	23-1	23-3	23-6	23-8	23-10
475.00	24-5	24-8	24-11	25-2	25-5	25-8	25-11	26-2	26-4	26-6
500.00	27-1	27-4	27-8	27-11	28-2	28-6	28-9	29-0	29-3	29-5

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SHEET 255 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.255
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.314	3.32	1984	3.29	2000*
0	0	0	0	0.52	2.18	1194	2.08	1253
30	0	0	0	0.52	2.91	896	2.75	945
40	0	0	0	0.52	3.13	831	2.97	875
50	0	0	0	0.52	3.35	777	3.19	817
60	0	0	0	0.52	3.56	732	3.39	768
70	0	0	0	0.52	3.76	693	3.59	725
80	0	0	0	0.52	3.95	659	3.78	689
90	0	0	0	0.52	4.14	630	3.96	657
100	0	0	0	0.52	4.27	611	4.14	629
110	0	0	0	0.52	4.37	596	4.32	603
120	0	0	0	0.52	4.48	581	4.48	581
130	0	0	0	0.52	4.59	568	4.59	568
167	0	0	0	0.52	4.96	525	4.96	525
212	0	0	0	0.52	5.39	484	5.39	484

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>257 OF 360</div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH811.257
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS									

* Design Condition

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 258 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.258
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.314	20.73	1995	20.68	2000*
0	0	0	0	0.52	19.54	837	19.37	844
30	0	0	0	0.52	20.28	807	20.09	814
40	0	0	0	0.52	20.52	797	20.33	805
50	0	0	0	0.52	20.76	788	20.56	796
60	0	0	0	0.52	21	779	20.79	787
70	0	0	0	0.52	21.24	771	21.02	778
80	0	0	0	0.52	21.47	762	21.25	770
90	0	0	0	0.52	21.7	754	21.48	762
100	0	0	0	0.52	21.93	747	21.7	755
110	0	0	0	0.52	22.12	740	21.92	747
120	0	0	0	0.52	22.27	736	22.14	740
130	0	0	0	0.52	22.41	731	22.36	733
167	0	0	0	0.52	22.95	714	22.95	714
212	0	0	0	0.52	23.58	695	23.58	695

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<div style="text-align: center;"> <p>SHEET</p> <p>259 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	New Page	Information Removed	<div style="text-align: center;"> <p>OH811.259</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 2000 LBS</p> </div>				

Completely Revised

X New Page

OH811.259

Stringing Sag Table Using Initial Sag							Ruling Span: 200.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-8	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1
125.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8
150.00	1-5	1-7	1-8	1-10	1-11	2-0	2-2	2-3	2-4	2-5
175.00	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-0	3-2	3-4
200.00	2-6	2-9	3-0	3-2	3-5	3-7	3-9	4-0	4-2	4-4
225.00	3-2	3-6	3-9	4-0	4-4	4-7	4-9	5-0	5-3	5-6
250.00	3-11	4-4	4-8	5-0	5-4	5-7	5-11	6-2	6-6	6-9

Stringing Sag Table Using Final Sag							Ruling Span:	200.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-1
125.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-8
150.00	1-6	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-5	2-6
175.00	2-1	2-3	2-5	2-7	2-9	2-11	3-0	3-2	3-3	3-4
200.00	2-8	2-11	3-2	3-4	3-7	3-9	3-11	4-2	4-3	4-4
225.00	3-5	3-8	4-0	4-3	4-6	4-9	5-0	5-3	5-5	5-6
250.00	4-2	4-6	4-11	5-3	5-7	5-10	6-2	6-6	6-8	6-10

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SHEET 261 OF 360		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH811.261
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS									

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.314	5.99	2473	5.92	2500*
0	0	0	0	0.52	4.35	1347	4.11	1424
30	0	0	0	0.52	5.27	1111	4.98	1175
40	0	0	0	0.52	5.56	1054	5.26	1113
50	0	0	0	0.52	5.84	1003	5.54	1058
60	0	0	0	0.52	6.11	959	5.81	1009
70	0	0	0	0.52	6.38	919	6.07	966
80	0	0	0	0.52	6.63	884	6.32	927
90	0	0	0	0.52	6.88	852	6.57	892
100	0	0	0	0.52	7.12	823	6.81	861
110	0	0	0	0.52	7.31	802	7.04	832
120	0	0	0	0.52	7.45	787	7.27	806
130	0	0	0	0.52	7.59	773	7.5	782
167	0	0	0	0.52	8.09	725	8.09	725
212	0	0	0	0.52	8.68	676	8.68	676

* Design Condition

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.314	10.62	2482	10.54	2500*
0	0	0	0	0.52	8.93	1167	8.65	1205
30	0	0	0	0.52	9.87	1056	9.56	1090
40	0	0	0	0.52	10.17	1025	9.85	1058
50	0	0	0	0.52	10.46	997	10.14	1028
60	0	0	0	0.52	10.75	970	10.42	1001
70	0	0	0	0.52	11.03	946	10.69	975
80	0	0	0	0.52	11.3	923	10.97	951
90	0	0	0	0.52	11.57	902	11.23	929
100	0	0	0	0.52	11.83	882	11.49	908
110	0	0	0	0.52	12.09	863	11.75	888
120	0	0	0	0.52	12.26	852	12	870
130	0	0	0	0.52	12.41	841	12.25	852
167	0	0	0	0.52	12.98	804	12.98	804
212	0	0	0	0.52	13.66	765	13.66	765

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		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		
SHEET 266 OF 360		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									OH811.266
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.314	16.59	2487	16.5	2500*
0	0	0	0	0.52	14.88	1096	14.59	1117
30	0	0	0	0.52	15.82	1031	15.5	1052
40	0	0	0	0.52	16.12	1012	15.8	1033
50	0	0	0	0.52	16.42	994	16.09	1014
60	0	0	0	0.52	16.71	977	16.37	997
70	0	0	0	0.52	17	960	16.66	980
80	0	0	0	0.52	17.29	945	16.94	964
90	0	0	0	0.52	17.57	930	17.21	949
100	0	0	0	0.52	17.84	915	17.48	934
110	0	0	0	0.52	18.12	902	17.75	920
120	0	0	0	0.52	18.33	891	18.02	907
130	0	0	0	0.52	18.5	883	18.28	894
167	0	0	0	0.52	19.12	855	19.12	855
212	0	0	0	0.52	19.85	824	19.85	824

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<div style="text-align: center;"> <p>SHEET</p> <p>267 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	<input checked="" type="checkbox"/> New Page	Information Removed	<div style="text-align: center;"> <p>OH811.267</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 2500 LBS</p> </div>				

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11
125.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
150.00	0-11	1-0	1-2	1-4	1-5	1-7	1-8	1-10	1-11	2-0
175.00	1-3	1-5	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9
200.00	1-8	1-10	2-1	2-4	2-6	2-9	3-0	3-2	3-5	3-7
225.00	2-1	2-4	2-7	2-11	3-2	3-6	3-9	4-0	4-4	4-7
250.00	2-7	2-11	3-3	3-7	3-11	4-4	4-8	5-0	5-4	5-7

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11	0-11
125.00	0-8	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6
150.00	1-0	1-2	1-4	1-5	1-7	1-8	1-10	1-11	2-0	2-1
175.00	1-5	1-7	1-9	1-11	2-2	2-4	2-6	2-8	2-9	2-10
200.00	1-10	2-1	2-4	2-7	2-9	3-0	3-3	3-5	3-7	3-9
225.00	2-3	2-7	2-11	3-3	3-6	3-10	4-1	4-4	4-7	4-9
250.00	2-10	3-2	3-7	4-0	4-4	4-9	5-1	5-5	5-8	5-10

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		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-2	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-8	1-9
175.00	1-7	1-8	1-9	1-11	2-0	2-1	2-2	2-3	2-4	2-5
200.00	2-1	2-3	2-4	2-6	2-7	2-8	2-10	2-11	3-0	3-2
225.00	2-8	2-10	3-0	3-1	3-3	3-5	3-7	3-8	3-10	4-0
250.00	3-3	3-6	3-8	3-10	4-0	4-3	4-5	4-7	4-9	4-11
275.00	3-11	4-2	4-5	4-8	4-11	5-1	5-4	5-6	5-9	5-11
300.00	4-8	5-0	5-3	5-6	5-10	6-1	6-4	6-7	6-10	7-1
325.00	5-6	5-10	6-2	6-6	6-10	7-1	7-5	7-9	8-0	8-3
350.00	6-5	6-9	7-2	7-6	7-11	8-3	8-7	8-11	9-3	9-7
375.00	7-4	7-9	8-3	8-8	9-1	9-6	9-11	10-3	10-8	11-0

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-3	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-9	1-10
175.00	1-8	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6
200.00	2-3	2-4	2-6	2-7	2-9	2-10	2-11	3-1	3-2	3-3
225.00	2-10	3-0	3-2	3-3	3-5	3-7	3-9	3-10	4-0	4-1
250.00	3-5	3-8	3-10	4-1	4-3	4-5	4-7	4-9	4-11	5-1
275.00	4-2	4-5	4-8	4-11	5-2	5-4	5-7	5-9	6-0	6-2
300.00	5-0	5-3	5-7	5-10	6-1	6-5	6-8	6-11	7-1	7-4
325.00	5-10	6-2	6-6	6-10	7-2	7-6	7-9	8-1	8-4	8-7
350.00	6-9	7-2	7-7	7-11	8-4	8-8	9-0	9-4	9-8	9-11
375.00	7-9	8-3	8-8	9-2	9-7	10-0	10-4	10-9	11-2	11-5

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SHEET 270 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.270
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS					

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Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 3000 LBS

OH811.273

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>274 OF 360</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH811.274
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS									


Span = 500 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.314	13.86	2972	13.73	3000*
0	0	0	0	0.52	11.59	1405	11.13	1462
30	0	0	0	0.52	12.72	1281	12.22	1333
40	0	0	0	0.52	13.08	1246	12.57	1296
50	0	0	0	0.52	13.43	1214	12.92	1261
60	0	0	0	0.52	13.77	1183	13.26	1229
70	0	0	0	0.52	14.11	1155	13.59	1199
80	0	0	0	0.52	14.44	1129	13.92	1171
90	0	0	0	0.52	14.77	1104	14.24	1145
100	0	0	0	0.52	15.09	1081	14.56	1120
110	0	0	0	0.52	15.4	1059	14.87	1097
120	0	0	0	0.52	15.71	1038	15.18	1075
130	0	0	0	0.52	15.9	1026	15.48	1054
167	0	0	0	0.52	16.59	984	16.56	986
212	0	0	0	0.52	17.4	938	17.39	939

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>275 OF 360</p> </div>	Indicates Latest Revision	Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH811.275</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 3000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-8	0-9
125.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2
150.00	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-5	1-7	1-8
175.00	0-11	1-0	1-1	1-3	1-5	1-7	1-9	1-11	2-2	2-4
200.00	1-2	1-3	1-6	1-8	1-10	2-1	2-4	2-7	2-9	3-0
225.00	1-5	1-8	1-10	2-1	2-4	2-8	2-11	3-3	3-6	3-10
250.00	1-9	2-0	2-3	2-7	2-11	3-3	3-8	4-0	4-4	4-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-5	0-6	0-7	0-7	0-8	0-9	0-9	0-10
125.00	0-6	0-7	0-8	0-9	0-10	1-0	1-1	1-2	1-3	1-3
150.00	0-9	0-10	1-0	1-1	1-3	1-5	1-6	1-8	1-9	1-10
175.00	1-0	1-2	1-4	1-6	1-8	1-11	2-1	2-3	2-5	2-6
200.00	1-4	1-6	1-9	2-0	2-3	2-6	2-8	2-11	3-2	3-3
225.00	1-8	1-11	2-2	2-6	2-10	3-1	3-5	3-9	4-0	4-1
250.00	2-0	2-4	2-8	3-1	3-6	3-10	4-3	4-7	4-11	5-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 277 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.277
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	1-0	1-1	1-2	1-2	1-3	1-4	1-5	1-6
175.00	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-10	1-11	2-0
200.00	1-6	1-7	1-9	1-11	2-0	2-2	2-3	2-5	2-6	2-8
225.00	1-11	2-0	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4
250.00	2-4	2-6	2-9	2-11	3-2	3-4	3-6	3-9	3-11	4-1
275.00	2-10	3-1	3-4	3-7	3-10	4-0	4-3	4-6	4-9	5-0
300.00	3-4	3-8	3-11	4-3	4-6	4-10	5-1	5-5	5-8	5-11
325.00	3-11	4-3	4-7	4-11	5-4	5-8	6-0	6-4	6-8	6-11
350.00	4-6	4-11	5-4	5-9	6-2	6-7	6-11	7-4	7-8	8-1
375.00	5-3	5-8	6-2	6-7	7-1	7-6	8-0	8-5	8-10	9-3

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-6	1-7
175.00	1-3	1-4	1-6	1-7	1-8	1-10	1-11	2-0	2-1	2-2
200.00	1-8	1-9	1-11	2-1	2-2	2-4	2-6	2-7	2-9	2-10
225.00	2-1	2-3	2-5	2-7	2-10	3-0	3-1	3-3	3-5	3-7
250.00	2-7	2-10	3-0	3-3	3-5	3-8	3-10	4-1	4-3	4-5
275.00	3-1	3-5	3-8	3-11	4-2	4-5	4-8	4-11	5-2	5-4
300.00	3-8	4-0	4-4	4-8	5-0	5-3	5-7	5-10	6-1	6-4
325.00	4-4	4-9	5-1	5-6	5-10	6-2	6-6	6-10	7-2	7-5
350.00	5-0	5-6	5-11	6-4	6-9	7-2	7-7	7-11	8-4	8-8
375.00	5-9	6-3	6-9	7-3	7-9	8-3	8-8	9-1	9-7	9-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 278 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.278
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6
225.00	2-2	2-4	2-5	2-6	2-8	2-9	2-10	2-11	3-0	3-1
250.00	2-9	2-10	3-0	3-1	3-3	3-5	3-6	3-7	3-9	3-10
275.00	3-4	3-6	3-7	3-9	3-11	4-1	4-3	4-5	4-6	4-8
300.00	3-11	4-1	4-4	4-6	4-8	4-10	5-0	5-3	5-5	5-7
325.00	4-7	4-10	5-1	5-3	5-6	5-8	5-11	6-1	6-4	6-6
350.00	5-4	5-7	5-10	6-1	6-4	6-7	6-10	7-1	7-4	7-7
375.00	6-2	6-5	6-9	7-0	7-4	7-7	7-10	8-2	8-5	8-8
400.00	7-0	7-4	7-8	8-0	8-4	8-8	8-11	9-3	9-7	9-10
425.00	7-11	8-3	8-8	9-0	9-5	9-9	10-1	10-6	10-10	11-2
450.00	8-10	9-3	9-8	10-1	10-6	10-11	11-4	11-9	12-1	12-6
475.00	9-10	10-4	10-10	11-3	11-9	12-2	12-8	13-1	13-6	13-11
500.00	10-11	11-5	12-0	12-6	13-0	13-6	14-0	14-6	14-11	15-5

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7
225.00	2-4	2-6	2-7	2-8	2-9	2-11	3-0	3-1	3-2	3-3
250.00	2-11	3-1	3-2	3-4	3-5	3-7	3-8	3-10	3-11	4-1
275.00	3-6	3-8	3-10	4-0	4-2	4-4	4-6	4-7	4-9	4-11
300.00	4-2	4-5	4-7	4-9	5-0	5-2	5-4	5-6	5-8	5-10
325.00	4-11	5-2	5-5	5-7	5-10	6-0	6-3	6-5	6-8	6-10
350.00	5-8	6-0	6-3	6-6	6-9	7-0	7-3	7-6	7-8	7-11
375.00	6-6	6-10	7-2	7-5	7-9	8-0	8-4	8-7	8-10	9-1
400.00	7-5	7-10	8-2	8-6	8-10	9-2	9-5	9-9	10-1	10-4
425.00	8-5	8-10	9-2	9-7	9-11	10-4	10-8	11-0	11-4	11-8
450.00	9-5	9-10	10-4	10-9	11-2	11-7	12-0	12-4	12-9	13-1
475.00	10-6	11-0	11-6	12-0	12-5	12-11	13-4	13-9	14-2	14-7
500.00	11-7	12-2	12-9	13-3	13-9	14-3	14-9	15-3	15-9	16-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 279 OF 360		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH811.279
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS									

Span = 100 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.12	2.66	1000	2.66	1000*
20	0	0	0	0.52	2.27	287	2.25	289
30	0	0	0	0.52	2.36	276	2.34	278
40	0	0	0	0.52	2.44	267	2.42	269
50	0	0	0	0.52	2.52	259	2.5	260
60	0	0	0	0.52	2.6	251	2.58	253
70	0	0	0	0.52	2.67	244	2.65	246
80	0	0	0	0.52	2.72	240	2.72	240
90	0	0	0	0.52	2.77	236	2.77	236
100	0	0	0	0.52	2.81	232	2.81	232
110	0	0	0	0.52	2.86	228	2.86	228
120	0	0	0	0.52	2.9	225	2.9	225
130	0	0	0	0.52	2.95	221	2.95	221
167	0	0	0	0.52	3.11	210	3.11	210
212	0	0	0	0.52	3.3	198	3.3	198

Span =		200	ft					
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.12	10.72	1000	10.72	1000*
20	0	0	0	0.52	10.35	254	10.33	254
30	0	0	0	0.52	10.43	252	10.42	252
40	0	0	0	0.52	10.51	250	10.49	251
50	0	0	0	0.52	10.59	248	10.57	249
60	0	0	0	0.52	10.66	247	10.64	247
70	0	0	0	0.52	10.73	245	10.72	245
80	0	0	0	0.52	10.79	244	10.79	244
90	0	0	0	0.52	10.84	243	10.84	243
100	0	0	0	0.52	10.89	242	10.89	242
110	0	0	0	0.52	10.94	241	10.94	241
120	0	0	0	0.52	10.98	240	10.98	240
130	0	0	0	0.52	11.03	239	11.03	239
167	0	0	0	0.52	11.21	235	11.21	235
212	0	0	0	0.52	11.43	230	11.43	230

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>281 OF 360</div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH811.281	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.12	44.51	1000	44.51	1000*
20	0	0	0	0.52	44.15	247	44.12	247
30	0	0	0	0.52	44.22	247	44.21	247
40	0	0	0	0.52	44.3	246	44.28	246
50	0	0	0	0.52	44.38	246	44.36	246
60	0	0	0	0.52	44.45	246	44.43	246
70	0	0	0	0.52	44.52	245	44.51	245
80	0	0	0	0.52	44.58	245	44.58	245
90	0	0	0	0.52	44.63	245	44.63	245
100	0	0	0	0.52	44.68	244	44.68	244
110	0	0	0	0.52	44.73	244	44.73	244
120	0	0	0	0.52	44.78	244	44.78	244
130	0	0	0	0.52	44.83	244	44.83	244
167	0	0	0	0.52	45.01	243	45.01	243
212	0	0	0	0.52	45.24	242	45.24	242

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[illegible]

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.12	71.75	1000	71.75	1000*
20	0	0	0	0.52	71.38	246	71.36	246
30	0	0	0	0.52	71.46	246	71.45	246
40	0	0	0	0.52	71.54	246	71.52	246
50	0	0	0	0.52	71.61	246	71.59	246
60	0	0	0	0.52	71.69	245	71.67	245
70	0	0	0	0.52	71.76	245	71.74	245
80	0	0	0	0.52	71.81	245	71.81	245
90	0	0	0	0.52	71.86	245	71.86	245
100	0	0	0	0.52	71.91	245	71.91	245
110	0	0	0	0.52	71.96	245	71.96	245
120	0	0	0	0.52	72.01	245	72.01	245
130	0	0	0	0.52	72.06	244	72.06	244
167	0	0	0	0.52	72.25	244	72.25	244
212	0	0	0	0.52	72.47	243	72.47	243

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>283 OF 360</div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH811.283	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-7	1-7	1-7
100.00	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-9	2-10	2-10
125.00	3-6	3-8	3-9	3-11	4-0	4-2	4-3	4-4	4-5	4-6
150.00	5-1	5-3	5-6	5-8	5-10	6-0	6-1	6-3	6-4	6-5
175.00	6-11	7-2	7-5	7-8	7-11	8-2	8-4	8-6	8-8	8-9
200.00	9-0	9-5	9-9	10-0	10-4	10-8	10-11	11-1	11-3	11-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-3	1-4	1-4	1-5	1-6	1-6	1-6	1-7	1-7	1-7
100.00	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-9	2-10	2-10
125.00	3-7	3-8	3-10	3-11	4-1	4-2	4-3	4-4	4-5	4-6
150.00	5-1	5-4	5-6	5-8	5-10	6-0	6-1	6-3	6-4	6-5
175.00	7-0	7-3	7-6	7-9	8-0	8-2	8-4	8-6	8-8	8-9
200.00	9-1	9-5	9-9	10-1	10-5	10-8	10-11	11-1	11-3	11-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>284 OF 360</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH811.284</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 1000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	10-11	10-11	10-11	10-11	11-0	11-0	11-0	11-0	11-0	11-1
225.00	13-10	13-10	13-10	13-11	13-11	13-11	13-11	14-0	14-0	14-0
250.00	17-1	17-1	17-2	17-2	17-2	17-3	17-3	17-3	17-3	17-4
275.00	20-8	20-9	20-9	20-9	20-10	20-10	20-11	20-11	20-11	21-0
300.00	24-8	24-8	24-9	24-9	24-10	24-10	24-11	24-11	24-11	25-0
325.00	29-0	29-0	29-1	29-2	29-2	29-3	29-3	29-4	29-4	29-4
350.00	33-8	33-9	33-9	33-10	33-11	33-11	34-0	34-0	34-1	34-1
375.00	38-8	38-9	38-10	38-11	39-0	39-0	39-1	39-2	39-2	39-3
400.00	44-1	44-3	44-3	44-4	44-5	44-6	44-7	44-8	44-8	44-9
425.00	49-11	50-0	50-1	50-2	50-3	50-4	50-5	50-6	50-6	50-7
450.00	56-1	56-2	56-3	56-5	56-6	56-7	56-8	56-9	56-9	56-10
475.00	62-7	62-9	62-10	63-0	63-1	63-2	63-3	63-4	63-5	63-6
500.00	69-7	69-8	69-10	69-11	70-1	70-2	70-3	70-4	70-5	70-6

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	10-11	10-11	10-11	11-0	11-0	11-0	11-0	11-0	11-0	11-1
225.00	13-10	13-10	13-10	13-11	13-11	13-11	13-11	14-0	14-0	14-0
250.00	17-1	17-1	17-2	17-2	17-2	17-3	17-3	17-3	17-3	17-4
275.00	20-8	20-9	20-9	20-10	20-10	20-10	20-11	20-11	20-11	21-0
300.00	24-8	24-8	24-9	24-9	24-10	24-10	24-11	24-11	24-11	25-0
325.00	29-0	29-0	29-1	29-2	29-2	29-3	29-3	29-4	29-4	29-4
350.00	33-8	33-9	33-10	33-10	33-11	34-0	34-0	34-0	34-1	34-1
375.00	38-9	38-10	38-10	38-11	39-0	39-1	39-1	39-2	39-2	39-3
400.00	44-2	44-3	44-4	44-5	44-5	44-6	44-7	44-8	44-8	44-9
425.00	49-11	50-0	50-1	50-2	50-3	50-4	50-5	50-6	50-6	50-7
450.00	56-1	56-2	56-4	56-5	56-6	56-7	56-8	56-9	56-9	56-10
475.00	62-8	62-9	62-11	63-0	63-1	63-2	63-3	63-4	63-5	63-6
500.00	69-7	69-9	69-10	69-11	70-1	70-2	70-3	70-4	70-5	70-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 287 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.287
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	17-6	17-6	17-6	17-7	17-7	17-7	17-7	17-7	17-8	17-8
275.00	21-2	21-3	21-3	21-3	21-3	21-4	21-4	21-4	21-4	21-5
300.00	25-3	25-4	25-4	25-4	25-5	25-5	25-5	25-5	25-6	25-6
325.00	29-8	29-9	29-9	29-10	29-10	29-10	29-11	29-11	29-11	29-11
350.00	34-6	34-7	34-7	34-7	34-8	34-8	34-9	34-9	34-9	34-10
375.00	39-8	39-9	39-9	39-10	39-10	39-11	39-11	40-0	40-0	40-0
400.00	45-3	45-4	45-4	45-5	45-5	45-6	45-6	45-7	45-7	45-7
425.00	51-2	51-3	51-4	51-4	51-5	51-6	51-6	51-7	51-7	51-7
450.00	57-6	57-7	57-8	57-8	57-9	57-10	57-11	57-11	58-0	58-0
475.00	64-3	64-4	64-5	64-5	64-6	64-7	64-8	64-8	64-9	64-9
500.00	71-4	71-5	71-6	71-7	71-8	71-9	71-10	71-10	71-11	72-0
525.00	78-11	79-0	79-1	79-2	79-3	79-4	79-5	79-5	79-6	79-7
550.00	86-10	86-11	87-0	87-1	87-2	87-3	87-4	87-5	87-6	87-7
575.00	95-2	95-3	95-4	95-6	95-7	95-8	95-9	95-10	95-11	96-0
600.00	103-11	104-1	104-2	104-3	104-5	104-6	104-7	104-8	104-9	104-10
625.00	113-1	113-3	113-5	113-6	113-7	113-9	113-10	113-11	114-0	114-1

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	17-6	17-6	17-6	17-7	17-7	17-7	17-7	17-7	17-8	17-8
275.00	21-3	21-3	21-3	21-3	21-4	21-4	21-4	21-4	21-4	21-5
300.00	25-3	25-4	25-4	25-4	25-5	25-5	25-5	25-5	25-6	25-6
325.00	29-9	29-9	29-9	29-10	29-10	29-10	29-11	29-11	29-11	29-11
350.00	34-6	34-7	34-7	34-8	34-8	34-8	34-9	34-9	34-9	34-10
375.00	39-8	39-9	39-9	39-10	39-10	39-11	39-11	40-0	40-0	40-0
400.00	45-3	45-4	45-4	45-5	45-5	45-6	45-6	45-7	45-7	45-7
425.00	51-3	51-3	51-4	51-4	51-5	51-6	51-6	51-7	51-7	51-7
450.00	57-6	57-7	57-8	57-9	57-9	57-10	57-11	57-11	58-0	58-0
475.00	64-3	64-4	64-5	64-6	64-6	64-7	64-8	64-8	64-9	64-9
500.00	71-5	71-6	71-6	71-7	71-8	71-9	71-10	71-10	71-11	72-0
525.00	78-11	79-0	79-1	79-2	79-3	79-4	79-5	79-5	79-6	79-7
550.00	86-10	86-11	87-0	87-1	87-3	87-4	87-4	87-5	87-6	87-7
575.00	95-2	95-4	95-5	95-6	95-7	95-8	95-9	95-10	95-11	96-0
600.00	104-0	104-1	104-2	104-4	104-5	104-6	104-7	104-8	104-9	104-10
625.00	113-2	113-3	113-5	113-6	113-8	113-9	113-10	113-11	114-0	114-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>288 OF 360</div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH811.288	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.12	7.1	1500	7.1	1500*
20	0	0	0	0.52	6.43	406	6.4	408
30	0	0	0	0.52	6.56	398	6.52	401
40	0	0	0	0.52	6.68	391	6.63	394
50	0	0	0	0.52	6.79	384	6.75	387
60	0	0	0	0.52	6.91	378	6.86	381
70	0	0	0	0.52	7.03	372	6.97	375
80	0	0	0	0.52	7.13	367	7.08	369
90	0	0	0	0.52	7.2	363	7.19	363
100	0	0	0	0.52	7.28	359	7.28	359
110	0	0	0	0.52	7.35	356	7.35	356
120	0	0	0	0.52	7.42	352	7.42	352
130	0	0	0	0.52	7.49	349	7.49	349
167	0	0	0	0.52	7.74	338	7.74	338
212	0	0	0	0.52	8.05	325	8.05	325

* Design Condition

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Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.12	45.65	1500	45.65	1500*
20	0	0	0	0.52	45	373	44.96	373
30	0	0	0	0.52	45.11	372	45.07	372
40	0	0	0	0.52	45.23	371	45.18	371
50	0	0	0	0.52	45.34	370	45.29	371
60	0	0	0	0.52	45.45	369	45.41	370
70	0	0	0	0.52	45.57	368	45.52	369
80	0	0	0	0.52	45.67	368	45.63	368
90	0	0	0	0.52	45.75	367	45.74	367
100	0	0	0	0.52	45.82	367	45.82	367
110	0	0	0	0.52	45.9	366	45.9	366
120	0	0	0	0.52	45.98	365	45.98	365
130	0	0	0	0.52	46.05	365	46.05	365
167	0	0	0	0.52	46.33	363	46.33	363
212	0	0	0	0.52	46.66	360	46.66	360

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>291 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH811.291</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 1500 LBS</p> </div>				

Completely Revised



Information Removed

OH811.291

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-1	1-1
100.00	1-0	1-2	1-3	1-5	1-6	1-8	1-9	1-10	1-11	2-0
125.00	1-7	1-10	2-0	2-2	2-5	2-7	2-9	2-11	3-0	3-1
150.00	2-3	2-7	2-11	3-2	3-5	3-8	3-11	4-2	4-4	4-6
175.00	3-1	3-6	3-11	4-4	4-8	5-0	5-4	5-8	5-11	6-1
200.00	4-0	4-7	5-2	5-8	6-1	6-7	7-0	7-5	7-8	7-11

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-1
100.00	1-0	1-2	1-4	1-5	1-7	1-8	1-9	1-10	1-11	2-0
125.00	1-8	1-10	2-1	2-3	2-6	2-8	2-10	2-11	3-0	3-1
150.00	2-4	2-8	3-0	3-3	3-7	3-10	4-0	4-2	4-4	4-6
175.00	3-2	3-8	4-1	4-6	4-10	5-2	5-6	5-8	5-11	6-1
200.00	4-2	4-9	5-4	5-10	6-4	6-9	7-2	7-5	7-8	7-11

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Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-7	1-8	1-8	1-8	1-9	1-9	1-9	1-10	1-10	1-10
125.00	2-6	2-7	2-7	2-8	2-8	2-9	2-9	2-10	2-10	2-10
150.00	3-7	3-8	3-9	3-10	3-10	3-11	4-0	4-1	4-1	4-2
175.00	4-11	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-7
200.00	6-5	6-6	6-8	6-9	6-10	7-0	7-1	7-2	7-3	7-4
225.00	8-1	8-3	8-5	8-7	8-8	8-10	9-0	9-1	9-3	9-4
250.00	10-0	10-2	10-4	10-7	10-9	10-11	11-1	11-3	11-5	11-6

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-7	1-8	1-8	1-8	1-9	1-9	1-9	1-10	1-10	1-10
125.00	2-6	2-7	2-7	2-8	2-8	2-9	2-9	2-10	2-10	2-10
150.00	3-7	3-8	3-9	3-10	3-11	3-11	4-0	4-1	4-1	4-2
175.00	4-11	5-0	5-1	5-2	5-3	5-5	5-5	5-6	5-7	5-7
200.00	6-5	6-7	6-8	6-10	6-11	7-0	7-2	7-2	7-3	7-4
225.00	8-2	8-4	8-5	8-7	8-9	8-11	9-0	9-1	9-3	9-4
250.00	10-1	10-3	10-5	10-8	10-10	11-0	11-2	11-3	11-5	11-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>293 OF 360</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH811.293
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-10	3-10	3-11	3-11	3-11	4-0	4-0	4-0	4-1	4-1
175.00	5-3	5-3	5-4	5-4	5-5	5-5	5-5	5-6	5-6	5-7
200.00	6-10	6-11	6-11	7-0	7-0	7-1	7-1	7-2	7-3	7-3
225.00	8-8	8-8	8-9	8-10	8-11	9-0	9-0	9-1	9-2	9-2
250.00	10-8	10-9	10-10	10-11	11-0	11-1	11-2	11-3	11-3	11-4
275.00	12-11	13-0	13-1	13-3	13-4	13-5	13-6	13-7	13-8	13-9
300.00	15-5	15-6	15-7	15-9	15-10	15-11	16-1	16-2	16-3	16-4
325.00	18-1	18-2	18-4	18-6	18-7	18-9	18-10	19-0	19-1	19-2
350.00	21-0	21-2	21-3	21-5	21-7	21-9	21-11	22-1	22-2	22-3
375.00	24-1	24-3	24-5	24-8	24-10	25-0	25-2	25-4	25-6	25-7

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-10	3-11	3-11	3-11	4-0	4-0	4-0	4-0	4-1	4-1
175.00	5-3	5-3	5-4	5-4	5-5	5-5	5-6	5-6	5-6	5-7
200.00	6-10	6-11	6-11	7-0	7-1	7-1	7-2	7-2	7-3	7-3
225.00	8-8	8-9	8-10	8-10	8-11	9-0	9-1	9-1	9-2	9-2
250.00	10-8	10-9	10-10	10-11	11-0	11-1	11-2	11-3	11-3	11-4
275.00	12-11	13-1	13-2	13-3	13-4	13-5	13-6	13-7	13-8	13-9
300.00	15-5	15-7	15-8	15-9	15-11	16-0	16-1	16-2	16-3	16-4
325.00	18-1	18-3	18-5	18-6	18-8	18-10	18-11	19-0	19-1	19-2
350.00	21-0	21-2	21-4	21-6	21-8	21-10	21-11	22-1	22-2	22-3
375.00	24-2	24-4	24-6	24-8	24-11	25-1	25-3	25-4	25-6	25-7

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 294 OF 360		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH811.294
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-0	7-0	7-1	7-1	7-1	7-2	7-2	7-2	7-3	7-3
225.00	8-10	8-11	8-11	9-0	9-0	9-1	9-1	9-1	9-2	9-2
250.00	11-0	11-0	11-1	11-1	11-2	11-2	11-3	11-3	11-4	11-4
275.00	13-3	13-4	13-4	13-5	13-6	13-6	13-7	13-8	13-8	13-9
300.00	15-10	15-10	15-11	16-0	16-1	16-1	16-2	16-3	16-3	16-4
325.00	18-7	18-8	18-8	18-9	18-10	18-11	19-0	19-1	19-1	19-2
350.00	21-6	21-7	21-8	21-9	21-11	22-0	22-1	22-2	22-2	22-3
375.00	24-9	24-10	24-11	25-0	25-2	25-3	25-4	25-5	25-6	25-7
400.00	28-2	28-3	28-5	28-6	28-7	28-9	28-10	28-11	29-0	29-1
425.00	31-10	31-11	32-1	32-2	32-4	32-6	32-7	32-9	32-10	32-11
450.00	35-9	35-10	36-0	36-2	36-3	36-5	36-7	36-8	36-10	36-11
475.00	39-10	40-0	40-2	40-4	40-6	40-7	40-9	40-11	41-1	41-2
500.00	44-2	44-4	44-6	44-8	44-11	45-1	45-3	45-5	45-7	45-8

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-0	7-1	7-1	7-1	7-2	7-2	7-2	7-2	7-3	7-3
225.00	8-11	8-11	8-11	9-0	9-0	9-1	9-1	9-1	9-2	9-2
250.00	11-0	11-0	11-1	11-1	11-2	11-2	11-3	11-3	11-4	11-4
275.00	13-3	13-4	13-5	13-5	13-6	13-7	13-7	13-8	13-8	13-9
300.00	15-10	15-11	15-11	16-0	16-1	16-2	16-2	16-3	16-3	16-4
325.00	18-7	18-8	18-9	18-10	18-11	18-11	19-0	19-1	19-1	19-2
350.00	21-7	21-8	21-9	21-10	21-11	22-0	22-1	22-2	22-2	22-3
375.00	24-9	24-10	25-0	25-1	25-2	25-3	25-4	25-5	25-6	25-7
400.00	28-2	28-4	28-5	28-7	28-8	28-9	28-11	28-11	29-0	29-1
425.00	31-10	32-0	32-2	32-3	32-5	32-6	32-8	32-9	32-10	32-11
450.00	35-9	35-11	36-1	36-2	36-4	36-6	36-7	36-9	36-10	36-11
475.00	39-11	40-1	40-3	40-4	40-6	40-8	40-10	40-11	41-1	41-2
500.00	44-3	44-5	44-7	44-9	45-0	45-2	45-4	45-5	45-7	45-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>295 OF 360</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH811.295
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS									

Span = 100 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.12	1.34	1976	1.33	2000*
20	0	0	0	0.52	0.42	1544	0.4	1619
30	0	0	0	0.52	0.53	1230	0.48	1342
40	0	0	0	0.52	0.66	978	0.59	1098
50	0	0	0	0.52	0.82	795	0.72	900
60	0	0	0	0.52	0.97	667	0.87	751
70	0	0	0	0.52	1.13	578	1.01	643
80	0	0	0	0.52	1.27	513	1.15	564
90	0	0	0	0.52	1.35	481	1.29	505
100	0	0	0	0.52	1.43	456	1.42	459
110	0	0	0	0.52	1.5	432	1.5	432
120	0	0	0	0.52	1.58	413	1.58	413
130	0	0	0	0.52	1.65	395	1.65	395
167	0	0	0	0.52	1.89	344	1.89	344
212	0	0	0	0.52	2.16	301	2.16	301

* Design Condition

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.12	5.32	2000	5.32	2000*
20	0	0	0	0.52	4.25	613	4.17	624
30	0	0	0	0.52	4.43	588	4.34	600
40	0	0	0	0.52	4.6	567	4.51	578
50	0	0	0	0.52	4.76	547	4.67	558
60	0	0	0	0.52	4.92	529	4.83	540
70	0	0	0	0.52	5.08	513	4.98	523
80	0	0	0	0.52	5.23	499	5.13	508
90	0	0	0	0.52	5.35	487	5.27	494
100	0	0	0	0.52	5.44	479	5.42	481
110	0	0	0	0.52	5.54	471	5.54	471
120	0	0	0	0.52	5.63	463	5.63	463
130	0	0	0	0.52	5.72	456	5.72	456
167	0	0	0	0.52	6.04	432	6.04	432
212	0	0	0	0.52	6.41	407	6.41	407

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>297 OF 360</h2> </div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH811.297	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 298 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.298
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.12	33.73	2000	33.73	2000*
20	0	0	0	0.52	32.72	505	32.65	506
30	0	0	0	0.52	32.88	503	32.8	504
40	0	0	0	0.52	33.03	501	32.95	502
50	0	0	0	0.52	33.19	498	33.1	500
60	0	0	0	0.52	33.34	496	33.24	497
70	0	0	0	0.52	33.49	494	33.39	495
80	0	0	0	0.52	33.64	492	33.54	493
90	0	0	0	0.52	33.77	490	33.69	491
100	0	0	0	0.52	33.87	489	33.84	489
110	0	0	0	0.52	33.97	487	33.97	487
120	0	0	0	0.52	34.07	486	34.07	486
130	0	0	0	0.52	34.17	484	34.17	484
167	0	0	0	0.52	34.54	479	34.54	479
212	0	0	0	0.52	34.98	474	34.98	474

* Design Condition

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>299 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	New Page	Information Removed	<div style="text-align: center;"> <p>OH811.299</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 2000 LBS</p> </div>				

Completely Revised

 New Page

Information Removed

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
397.5 - 26/7 ACSR/AW TENSION 2000 LBS

OH811.299

Stringing Sag Table Using Initial Sag							Ruling Span:	200.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-1	1-1	1-2	1-2	1-2	1-3	1-3	1-4	1-4	1-5
125.00	1-8	1-8	1-9	1-10	1-11	1-11	2-0	2-1	2-1	2-2
150.00	2-4	2-5	2-6	2-8	2-9	2-10	2-11	3-0	3-1	3-1
175.00	3-2	3-4	3-5	3-7	3-8	3-10	3-11	4-0	4-2	4-3
200.00	4-2	4-4	4-6	4-8	4-10	5-0	5-2	5-3	5-5	5-6
225.00	5-3	5-6	5-8	5-11	6-1	6-4	6-6	6-8	6-10	7-0
250.00	6-6	6-9	7-1	7-4	7-7	7-9	8-0	8-3	8-6	8-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-4	1-5
125.00	1-8	1-9	1-10	1-10	1-11	2-0	2-0	2-1	2-1	2-2
150.00	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-1
175.00	3-3	3-5	3-6	3-8	3-9	3-11	4-0	4-1	4-2	4-3
200.00	4-3	4-5	4-7	4-9	4-11	5-1	5-3	5-4	5-5	5-6
225.00	5-5	5-7	5-10	6-0	6-3	6-5	6-7	6-9	6-11	7-0
250.00	6-8	6-11	7-2	7-5	7-8	7-11	8-2	8-4	8-6	8-8

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 301 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.301
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-9	2-9	2-10	2-10	2-10	2-11	2-11	3-0	3-0	3-1
175.00	3-8	3-9	3-10	3-10	3-11	4-0	4-0	4-1	4-1	4-2
200.00	4-10	4-11	5-0	5-1	5-1	5-2	5-3	5-4	5-4	5-5
225.00	6-1	6-3	6-4	6-5	6-6	6-7	6-8	6-9	6-10	6-11
250.00	7-7	7-8	7-9	7-11	8-0	8-1	8-2	8-4	8-5	8-6
275.00	9-2	9-3	9-5	9-7	9-8	9-10	9-11	10-1	10-2	10-3
300.00	10-11	11-1	11-3	11-4	11-6	11-8	11-10	12-0	12-1	12-3
325.00	12-9	13-0	13-2	13-4	13-6	13-8	13-10	14-0	14-3	14-4
350.00	14-10	15-1	15-3	15-6	15-8	15-11	16-1	16-3	16-6	16-8
375.00	17-0	17-3	17-6	17-9	18-0	18-3	18-6	18-9	18-11	19-2

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-9	2-9	2-10	2-10	2-11	2-11	3-0	3-0	3-0	3-1
175.00	3-9	3-9	3-10	3-11	3-11	4-0	4-1	4-1	4-1	4-2
200.00	4-10	4-11	5-0	5-1	5-2	5-3	5-3	5-4	5-5	5-5
225.00	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-9	6-10	6-11
250.00	7-7	7-9	7-10	7-11	8-1	8-2	8-3	8-4	8-5	8-6
275.00	9-3	9-4	9-6	9-7	9-9	9-11	10-0	10-1	10-2	10-3
300.00	11-0	11-2	11-4	11-5	11-7	11-9	11-11	12-0	12-2	12-3
325.00	12-11	13-1	13-3	13-5	13-8	13-10	14-0	14-2	14-3	14-4
350.00	14-11	15-2	15-5	15-7	15-10	16-0	16-3	16-5	16-6	16-8
375.00	17-2	17-5	17-8	17-11	18-2	18-5	18-8	18-10	19-0	19-2

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 302 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.302
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-1	5-1	5-2	5-2	5-3	5-3	5-4	5-4	5-4	5-5
225.00	6-5	6-6	6-6	6-7	6-7	6-8	6-8	6-9	6-10	6-10
250.00	7-11	8-0	8-1	8-1	8-2	8-3	8-3	8-4	8-5	8-5
275.00	9-7	9-8	9-9	9-10	9-11	9-11	10-0	10-1	10-2	10-3
300.00	11-5	11-6	11-7	11-8	11-9	11-10	11-11	12-0	12-1	12-2
325.00	13-5	13-6	13-7	13-9	13-10	13-11	14-0	14-1	14-2	14-4
350.00	15-7	15-8	15-10	15-11	16-0	16-2	16-3	16-4	16-6	16-7
375.00	17-11	18-0	18-2	18-3	18-5	18-7	18-8	18-10	18-11	19-1
400.00	20-4	20-6	20-8	20-10	20-11	21-1	21-3	21-5	21-7	21-8
425.00	23-0	23-2	23-4	23-6	23-8	23-10	24-0	24-2	24-4	24-6
450.00	25-9	26-0	26-2	26-4	26-7	26-9	26-11	27-1	27-4	27-6
475.00	28-9	28-11	29-2	29-5	29-7	29-10	30-0	30-3	30-5	30-8
500.00	31-10	32-1	32-4	32-7	32-10	33-1	33-3	33-6	33-9	33-11

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-1	5-2	5-2	5-3	5-3	5-3	5-4	5-4	5-5	5-5
225.00	6-5	6-6	6-7	6-7	6-8	6-8	6-9	6-9	6-10	6-10
250.00	8-0	8-0	8-1	8-2	8-2	8-3	8-4	8-4	8-5	8-5
275.00	9-8	9-9	9-9	9-10	9-11	10-0	10-1	10-2	10-2	10-3
300.00	11-6	11-7	11-8	11-9	11-10	11-11	12-0	12-1	12-1	12-2
325.00	13-6	13-7	13-8	13-9	13-11	14-0	14-1	14-2	14-3	14-4
350.00	15-8	15-9	15-10	16-0	16-1	16-3	16-4	16-5	16-6	16-7
375.00	17-11	18-1	18-3	18-4	18-6	18-8	18-9	18-10	19-0	19-1
400.00	20-5	20-7	20-9	20-11	21-1	21-2	21-4	21-6	21-7	21-8
425.00	23-1	23-3	23-5	23-7	23-9	23-11	24-1	24-3	24-5	24-6
450.00	25-11	26-1	26-3	26-6	26-8	26-10	27-1	27-3	27-4	27-6
475.00	28-10	29-1	29-4	29-6	29-9	29-11	30-2	30-4	30-6	30-8
500.00	32-0	32-3	32-6	32-9	33-0	33-2	33-5	33-8	33-10	33-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 303 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.303
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>305 OF 360</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH811.305
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.12	26.81	2500	26.81	2500*
20	0	0	0	0.52	25.36	647	25.22	651
30	0	0	0	0.52	25.56	642	25.42	646
40	0	0	0	0.52	25.76	638	25.61	641
50	0	0	0	0.52	25.95	633	25.8	637
60	0	0	0	0.52	26.14	628	25.98	632
70	0	0	0	0.52	26.34	624	26.17	628
80	0	0	0	0.52	26.53	619	26.36	623
90	0	0	0	0.52	26.72	615	26.54	619
100	0	0	0	0.52	26.86	612	26.73	615
110	0	0	0	0.52	26.98	609	26.91	611
120	0	0	0	0.52	27.1	607	27.09	607
130	0	0	0	0.52	27.23	604	27.23	604
167	0	0	0	0.52	27.68	594	27.68	594
212	0	0	0	0.52	28.22	583	28.22	583

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>307 OF 360</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH811.307</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 2500 LBS</p> </div>						

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-8	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-1
125.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-8
150.00	1-5	1-7	1-8	1-10	1-11	2-0	2-2	2-3	2-4	2-5
175.00	2-0	2-2	2-4	2-6	2-7	2-9	2-11	3-1	3-2	3-4
200.00	2-7	2-9	3-0	3-3	3-5	3-7	3-10	4-0	4-2	4-4
225.00	3-3	3-6	3-10	4-1	4-4	4-7	4-10	5-1	5-3	5-6
250.00	4-0	4-4	4-8	5-0	5-4	5-8	5-11	6-3	6-6	6-9

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-1
125.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-8	1-9
150.00	1-6	1-8	1-9	1-11	2-0	2-2	2-3	2-4	2-5	2-6
175.00	2-1	2-3	2-5	2-7	2-9	2-11	3-1	3-2	3-3	3-4
200.00	2-8	2-11	3-2	3-5	3-7	3-9	4-0	4-2	4-3	4-5
225.00	3-5	3-9	4-0	4-3	4-6	4-10	5-0	5-3	5-5	5-7
250.00	4-3	4-7	4-11	5-3	5-7	5-11	6-3	6-6	6-8	6-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 309 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.309
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-0	2-0	2-1	2-2	2-2	2-3	2-3	2-4	2-4	2-5
175.00	2-8	2-9	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-3
200.00	3-6	3-7	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4
225.00	4-6	4-7	4-8	4-10	4-11	5-0	5-2	5-3	5-4	5-5
250.00	5-6	5-8	5-10	5-11	6-1	6-3	6-4	6-6	6-7	6-9
275.00	6-8	6-10	7-0	7-2	7-4	7-6	7-8	7-10	8-0	8-2
300.00	7-11	8-2	8-4	8-7	8-9	8-11	9-2	9-4	9-6	9-8
325.00	9-4	9-7	9-10	10-1	10-3	10-6	10-9	10-11	11-2	11-4
350.00	10-10	11-1	11-5	11-8	11-11	12-2	12-5	12-8	12-11	13-2
375.00	12-5	12-9	13-1	13-5	13-8	14-0	14-3	14-7	14-10	15-2

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-0	2-1	2-2	2-2	2-3	2-3	2-4	2-4	2-5	2-5
175.00	2-9	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-3	3-4
200.00	3-7	3-8	3-9	3-10	4-0	4-1	4-2	4-3	4-3	4-4
225.00	4-7	4-8	4-9	4-11	5-0	5-1	5-3	5-4	5-5	5-6
250.00	5-7	5-9	5-11	6-1	6-2	6-4	6-5	6-7	6-8	6-9
275.00	6-10	7-0	7-2	7-4	7-6	7-8	7-10	8-0	8-1	8-2
300.00	8-1	8-4	8-6	8-9	8-11	9-1	9-4	9-6	9-8	9-9
325.00	9-6	9-9	10-0	10-3	10-6	10-8	10-11	11-2	11-4	11-5
350.00	11-0	11-4	11-7	11-10	12-2	12-5	12-8	12-11	13-1	13-3
375.00	12-8	13-0	13-4	13-8	13-11	14-3	14-7	14-10	15-1	15-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 310 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.310
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-10	3-11	4-0	4-0	4-1	4-1	4-2	4-2	4-3	4-3
225.00	4-11	4-11	5-0	5-1	5-2	5-2	5-3	5-4	5-4	5-5
250.00	6-1	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-8
275.00	7-4	7-5	7-6	7-7	7-8	7-9	7-10	7-11	8-0	8-1
300.00	8-8	8-10	8-11	9-0	9-2	9-3	9-4	9-5	9-7	9-8
325.00	10-3	10-4	10-6	10-7	10-9	10-10	11-0	11-1	11-3	11-4
350.00	11-10	12-0	12-2	12-4	12-5	12-7	12-9	12-10	13-0	13-2
375.00	13-7	13-9	13-11	14-1	14-3	14-5	14-7	14-9	14-11	15-1
400.00	15-6	15-8	15-11	16-1	16-3	16-5	16-8	16-10	17-0	17-2
425.00	17-6	17-9	17-11	18-2	18-4	18-7	18-9	19-0	19-2	19-5
450.00	19-7	19-10	20-1	20-4	20-7	20-10	21-1	21-4	21-6	21-9
475.00	21-10	22-2	22-5	22-8	22-11	23-3	23-6	23-9	24-0	24-3
500.00	24-3	24-6	24-10	25-2	25-5	25-9	26-0	26-4	26-7	26-11

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-10	3-11	4-0	4-0	4-1	4-1	4-2	4-2	4-3	4-3
225.00	4-11	4-11	5-0	5-1	5-2	5-2	5-3	5-4	5-4	5-5
250.00	6-1	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-8
275.00	7-4	7-5	7-6	7-7	7-8	7-9	7-10	7-11	8-0	8-1
300.00	8-8	8-10	8-11	9-0	9-2	9-3	9-4	9-5	9-7	9-8
325.00	10-3	10-4	10-6	10-7	10-9	10-10	11-0	11-1	11-3	11-4
350.00	11-10	12-0	12-2	12-4	12-5	12-7	12-9	12-10	13-0	13-2
375.00	13-7	13-9	13-11	14-1	14-3	14-5	14-7	14-9	14-11	15-1
400.00	15-6	15-8	15-11	16-1	16-3	16-5	16-8	16-10	17-0	17-2
425.00	17-6	17-9	17-11	18-2	18-4	18-7	18-9	19-0	19-2	19-5
450.00	19-7	19-10	20-1	20-4	20-7	20-10	21-1	21-4	21-6	21-9
475.00	21-10	22-2	22-5	22-8	22-11	23-3	23-6	23-9	24-0	24-3
500.00	24-3	24-6	24-10	25-2	25-5	25-9	26-0	26-4	26-7	26-11

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-11	3-11	4-0	4-1	4-1	4-2	4-2	4-3	4-3	4-4
225.00	4-11	5-0	5-1	5-2	5-2	5-3	5-4	5-4	5-5	5-5
250.00	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-8	6-9
275.00	7-5	7-6	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2
300.00	8-9	8-11	9-0	9-1	9-3	9-4	9-5	9-7	9-8	9-8
325.00	10-4	10-5	10-7	10-8	10-10	11-0	11-1	11-3	11-4	11-5
350.00	12-0	12-1	12-3	12-5	12-7	12-9	12-10	13-0	13-1	13-2
375.00	13-9	13-11	14-1	14-3	14-5	14-7	14-9	14-11	15-1	15-2
400.00	15-8	15-10	16-0	16-3	16-5	16-7	16-10	17-0	17-2	17-3
425.00	17-8	17-11	18-1	18-4	18-7	18-9	19-0	19-2	19-4	19-6
450.00	19-9	20-1	20-4	20-7	20-10	21-0	21-3	21-6	21-8	21-10
475.00	22-1	22-4	22-7	22-11	23-2	23-5	23-9	24-0	24-2	24-4
500.00	24-5	24-9	25-1	25-5	25-8	26-0	26-4	26-7	26-10	27-0

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-11	3-11	4-0	4-1	4-1	4-2	4-2	4-3	4-3	4-4
225.00	4-11	5-0	5-1	5-2	5-2	5-3	5-4	5-4	5-5	5-5
250.00	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-8	6-9
275.00	7-5	7-6	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2
300.00	8-9	8-11	9-0	9-1	9-3	9-4	9-5	9-7	9-8	9-8
325.00	10-4	10-5	10-7	10-8	10-10	11-0	11-1	11-3	11-4	11-5
350.00	12-0	12-1	12-3	12-5	12-7	12-9	12-10	13-0	13-1	13-2
375.00	13-9	13-11	14-1	14-3	14-5	14-7	14-9	14-11	15-1	15-2
400.00	15-8	15-10	16-0	16-3	16-5	16-7	16-10	17-0	17-2	17-3
425.00	17-8	17-11	18-1	18-4	18-7	18-9	19-0	19-2	19-4	19-6
450.00	19-9	20-1	20-4	20-7	20-10	21-0	21-3	21-6	21-8	21-10
475.00	22-1	22-4	22-7	22-11	23-2	23-5	23-9	24-0	24-2	24-4
500.00	24-5	24-9	25-1	25-5	25-8	26-0	26-4	26-7	26-10	27-0

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 311 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.311
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS									

SHEET 311 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.311
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-3	6-4	6-5	6-5	6-6	6-6	6-7	6-7	6-8	6-8
275.00	7-7	7-8	7-9	7-9	7-10	7-11	7-11	8-0	8-1	8-1
300.00	9-1	9-2	9-2	9-3	9-4	9-5	9-6	9-6	9-7	9-8
325.00	10-8	10-9	10-10	10-11	10-11	11-0	11-1	11-2	11-3	11-4
350.00	12-4	12-5	12-6	12-7	12-9	12-10	12-11	13-0	13-1	13-2
375.00	14-2	14-3	14-5	14-6	14-7	14-8	14-10	14-11	15-0	15-1
400.00	16-1	16-3	16-4	16-6	16-7	16-9	16-10	17-0	17-1	17-2
425.00	18-2	18-4	18-6	18-7	18-9	18-11	19-0	19-2	19-3	19-5
450.00	20-5	20-7	20-9	20-11	21-0	21-2	21-4	21-6	21-8	21-9
475.00	22-9	22-11	23-1	23-3	23-5	23-7	23-9	23-11	24-1	24-3
500.00	25-3	25-5	25-7	25-10	26-0	26-2	26-4	26-7	26-9	26-11
525.00	27-10	28-0	28-3	28-5	28-8	28-10	29-1	29-3	29-6	29-8
550.00	30-7	30-9	31-0	31-3	31-6	31-8	31-11	32-2	32-4	32-7
575.00	33-5	33-8	33-11	34-2	34-5	34-8	34-11	35-2	35-5	35-8
600.00	36-5	36-8	36-11	37-2	37-6	37-9	38-0	38-3	38-7	38-10
625.00	39-6	39-9	40-1	40-5	40-8	41-0	41-3	41-7	41-10	42-2

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-4	6-4	6-5	6-6	6-6	6-7	6-7	6-8	6-8	6-9
275.00	7-8	7-9	7-9	7-10	7-11	7-11	8-0	8-1	8-1	8-2
300.00	9-1	9-2	9-3	9-4	9-5	9-6	9-6	9-7	9-8	9-8
325.00	10-8	10-9	10-10	10-11	11-0	11-1	11-2	11-3	11-4	11-4
350.00	12-5	12-6	12-7	12-8	12-9	12-11	13-0	13-1	13-2	13-2
375.00	14-3	14-4	14-6	14-7	14-8	14-9	14-11	15-0	15-1	15-2
400.00	16-3	16-4	16-6	16-7	16-9	16-10	16-11	17-1	17-2	17-3
425.00	18-4	18-5	18-7	18-9	18-10	19-0	19-2	19-3	19-5	19-6
450.00	20-6	20-8	20-10	21-0	21-2	21-4	21-6	21-7	21-9	21-10
475.00	22-11	23-1	23-3	23-5	23-7	23-9	23-11	24-1	24-3	24-4
500.00	25-4	25-7	25-9	25-11	26-2	26-4	26-6	26-9	26-10	27-0
525.00	28-0	28-2	28-5	28-7	28-10	29-1	29-3	29-6	29-7	29-9
550.00	30-9	30-11	31-2	31-5	31-8	31-11	32-1	32-4	32-6	32-8
575.00	33-7	33-10	34-1	34-4	34-7	34-10	35-1	35-5	35-7	35-9
600.00	36-7	36-10	37-2	37-5	37-9	38-0	38-3	38-6	38-9	38-11
625.00	39-8	40-0	40-4	40-8	40-11	41-3	41-6	41-10	42-1	42-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 312 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.312
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 313 OF 360		Indicates Latest Revision			Completely Revised		X	New Page		Information Removed		OH811.313
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS										

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.12	22.26	3000	22.26	3000*
20	0	0	0	0.52	20.3	806	20.07	815
30	0	0	0	0.52	20.55	796	20.31	805
40	0	0	0	0.52	20.79	787	20.54	796
50	0	0	0	0.52	21.02	778	20.78	788
60	0	0	0	0.52	21.26	770	21.01	779
70	0	0	0	0.52	21.49	762	21.23	771
80	0	0	0	0.52	21.72	754	21.46	763
90	0	0	0	0.52	21.95	746	21.68	755
100	0	0	0	0.52	22.17	739	21.9	748
110	0	0	0	0.52	22.32	734	22.12	740
120	0	0	0	0.52	22.46	729	22.34	733
130	0	0	0	0.52	22.61	725	22.56	726
167	0	0	0	0.52	23.14	708	23.14	708
212	0	0	0	0.52	23.76	690	23.76	690

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>315 OF 360</p> </div>	<div style="display: flex; justify-content: space-between; padding: 2px;"> Indicates Latest Revision Completely Revised X New Page Information Removed </div>	<p>OH811.315</p>	
	<p>SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS</p>		
	<p>DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS</p>		

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-10
125.00	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
150.00	0-10	0-11	1-1	1-2	1-4	1-5	1-7	1-8	1-10	1-11
175.00	1-1	1-3	1-5	1-7	1-9	1-11	2-2	2-4	2-5	2-7
200.00	1-6	1-8	1-10	2-1	2-4	2-7	2-9	3-0	3-3	3-5
225.00	1-10	2-1	2-4	2-8	2-11	3-3	3-6	3-10	4-1	4-4
250.00	2-3	2-7	2-11	3-3	3-8	4-0	4-4	4-8	5-0	5-4

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-10	0-11
125.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
150.00	0-11	1-1	1-2	1-4	1-6	1-7	1-9	1-10	1-11	2-0
175.00	1-3	1-5	1-7	1-10	2-0	2-2	2-4	2-6	2-8	2-9
200.00	1-7	1-10	2-1	2-4	2-7	2-10	3-1	3-3	3-6	3-7
225.00	2-1	2-4	2-8	3-0	3-4	3-7	3-11	4-2	4-5	4-6
250.00	2-6	2-11	3-4	3-8	4-1	4-5	4-10	5-2	5-5	5-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>317 OF 360</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.317
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-5	1-6	1-7	1-7	1-8	1-9	1-10	1-10	1-11	2-0
175.00	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8
200.00	2-6	2-8	2-9	2-10	3-0	3-1	3-2	3-3	3-5	3-6
225.00	3-2	3-4	3-6	3-8	3-9	3-11	4-0	4-2	4-3	4-5
250.00	4-0	4-2	4-4	4-6	4-8	4-10	5-0	5-2	5-4	5-5
275.00	4-10	5-0	5-3	5-5	5-8	5-10	6-0	6-3	6-5	6-7
300.00	5-8	6-0	6-3	6-6	6-9	6-11	7-2	7-5	7-8	7-10
325.00	6-8	7-0	7-4	7-7	7-11	8-2	8-5	8-8	8-11	9-2
350.00	7-9	8-1	8-6	8-10	9-2	9-6	9-9	10-1	10-5	10-8
375.00	8-11	9-4	9-9	10-1	10-6	10-10	11-3	11-7	11-11	12-3

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-6	1-7	1-7	1-8	1-9	1-10	1-10	1-11	2-0	2-0
175.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
200.00	2-8	2-9	2-10	3-0	3-1	3-2	3-4	3-5	3-6	3-7
225.00	3-4	3-6	3-8	3-9	3-11	4-1	4-2	4-4	4-5	4-6
250.00	4-1	4-4	4-6	4-8	4-10	5-0	5-2	5-4	5-6	5-7
275.00	5-0	5-3	5-5	5-8	5-10	6-1	6-3	6-5	6-8	6-9
300.00	5-11	6-3	6-6	6-9	7-0	7-3	7-5	7-8	7-11	8-0
325.00	7-0	7-3	7-7	7-11	8-2	8-6	8-9	9-0	9-3	9-5
350.00	8-1	8-5	8-10	9-2	9-6	9-10	10-2	10-5	10-9	10-11
375.00	9-3	9-8	10-1	10-6	10-11	11-3	11-8	12-0	12-4	12-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 318 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.318
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span: 400.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-0	3-1	3-1	3-2	3-3	3-3	3-4	3-5	3-6	3-6
225.00	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-5
250.00	4-8	4-9	4-10	5-0	5-1	5-2	5-3	5-4	5-5	5-6
275.00	5-8	5-9	5-11	6-0	6-1	6-3	6-4	6-5	6-7	6-8
300.00	6-9	6-11	7-0	7-2	7-3	7-5	7-6	7-8	7-9	7-11
325.00	7-11	8-1	8-3	8-5	8-7	8-8	8-10	9-0	9-2	9-3
350.00	9-2	9-4	9-7	9-9	9-11	10-1	10-3	10-5	10-7	10-9
375.00	10-6	10-9	11-0	11-2	11-5	11-7	11-9	12-0	12-2	12-4
400.00	12-0	12-3	12-6	12-9	12-11	13-2	13-5	13-8	13-10	14-1
425.00	13-6	13-10	14-1	14-4	14-7	14-11	15-2	15-5	15-8	15-11
450.00	15-2	15-6	15-10	16-1	16-5	16-8	17-0	17-3	17-6	17-10
475.00	16-11	17-3	17-7	17-11	18-3	18-7	18-11	19-3	19-7	19-10
500.00	18-9	19-2	19-6	19-11	20-3	20-7	21-0	21-4	21-8	22-0

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-1	3-1	3-2	3-3	3-4	3-4	3-5	3-6	3-6	3-7
225.00	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-6
250.00	4-9	4-10	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7
275.00	5-9	5-11	6-0	6-1	6-3	6-4	6-5	6-7	6-8	6-9
300.00	6-10	7-0	7-2	7-3	7-5	7-7	7-8	7-10	7-11	8-0
325.00	8-1	8-3	8-5	8-7	8-9	8-10	9-0	9-2	9-4	9-5
350.00	9-4	9-7	9-9	9-11	10-1	10-3	10-6	10-8	10-10	10-11
375.00	10-9	11-0	11-2	11-5	11-7	11-10	12-0	12-3	12-5	12-6
400.00	12-3	12-6	12-9	13-0	13-2	13-5	13-8	13-11	14-1	14-3
425.00	13-10	14-1	14-4	14-8	14-11	15-2	15-5	15-8	15-11	16-1
450.00	15-6	15-10	16-1	16-5	16-9	17-0	17-4	17-7	17-11	18-1
475.00	17-3	17-7	17-11	18-4	18-8	19-0	19-3	19-7	19-11	20-1
500.00	19-1	19-6	19-11	20-3	20-8	21-0	21-5	21-9	22-1	22-4

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Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.12	44.51	1000	44.51	1000*
0	0	0	0	0.52	44.2	247	44.16	247
30	0	0	0	0.52	44.45	246	44.43	246
40	0	0	0	0.52	44.53	245	44.5	245
50	0	0	0	0.52	44.6	245	44.58	245
60	0	0	0	0.52	44.68	244	44.65	245
70	0	0	0	0.52	44.74	244	44.72	244
80	0	0	0	0.52	44.79	244	44.79	244
90	0	0	0	0.52	44.84	244	44.84	244
100	0	0	0	0.52	44.89	243	44.89	243
110	0	0	0	0.52	44.94	243	44.94	243
120	0	0	0	0.52	44.99	243	44.99	243
130	0	0	0	0.52	45.04	243	45.04	243
167	0	0	0	0.52	45.23	242	45.23	242
212	0	0	0	0.52	45.45	241	45.45	241

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 322 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH811.322
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS										

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.12	71.75	1000	71.75	1000*
0	0	0	0	0.52	71.43	246	71.4	246
30	0	0	0	0.52	71.69	245	71.66	246
40	0	0	0	0.52	71.76	245	71.74	245
50	0	0	0	0.52	71.84	245	71.81	245
60	0	0	0	0.52	71.91	245	71.88	245
70	0	0	0	0.52	71.98	245	71.96	245
80	0	0	0	0.52	72.03	244	72.03	244
90	0	0	0	0.52	72.08	244	72.08	244
100	0	0	0	0.52	72.13	244	72.13	244
110	0	0	0	0.52	72.18	244	72.18	244
120	0	0	0	0.52	72.23	244	72.23	244
130	0	0	0	0.52	72.28	244	72.28	244
167	0	0	0	0.52	72.46	243	72.46	243
212	0	0	0	0.52	72.69	243	72.69	243
* Design Condition								

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>323 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	<div style="border: 1px solid black; padding: 2px;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH811.323</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 1000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag							Ruling Span:		300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-0	6-1	6-1	6-1	6-1	6-2	6-2	6-2	6-2	6-2
175.00	8-3	8-3	8-3	8-4	8-4	8-4	8-5	8-5	8-5	8-5
200.00	10-9	10-10	10-10	10-10	10-11	10-11	10-11	11-0	11-0	11-0
225.00	13-8	13-8	13-9	13-9	13-10	13-10	13-11	13-11	13-11	14-0
250.00	16-10	16-11	16-11	17-0	17-1	17-1	17-2	17-2	17-3	17-3
275.00	20-5	20-6	20-7	20-7	20-8	20-9	20-9	20-10	20-10	20-11
300.00	24-4	24-5	24-6	24-7	24-8	24-8	24-9	24-10	24-10	24-11
325.00	28-7	28-8	28-9	28-10	28-11	29-0	29-1	29-2	29-3	29-4
350.00	33-2	33-4	33-5	33-6	33-8	33-9	33-10	33-11	34-0	34-0
375.00	38-2	38-4	38-5	38-7	38-8	38-9	38-11	39-0	39-1	39-2

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-1	6-1	6-1	6-1	6-1	6-2	6-2	6-2	6-2	6-2
175.00	8-3	8-3	8-3	8-4	8-4	8-4	8-5	8-5	8-5	8-5
200.00	10-9	10-10	10-10	10-10	10-11	10-11	10-11	11-0	11-0	11-0
225.00	13-8	13-8	13-9	13-9	13-10	13-10	13-11	13-11	13-11	14-0
250.00	16-10	16-11	17-0	17-0	17-1	17-1	17-2	17-2	17-3	17-3
275.00	20-5	20-6	20-7	20-8	20-8	20-9	20-9	20-10	20-10	20-11
300.00	24-4	24-5	24-6	24-7	24-8	24-9	24-9	24-10	24-10	24-11
325.00	28-7	28-9	28-10	28-11	29-0	29-1	29-1	29-2	29-3	29-4
350.00	33-3	33-4	33-6	33-7	33-8	33-9	33-10	33-11	34-0	34-0
375.00	38-3	38-4	38-6	38-7	38-9	38-10	38-11	39-0	39-1	39-2

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SHEET 326 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.326
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1000 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 329 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.329
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS									

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* Design Condition

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<div style="text-align: center;"> <h1>SHEET</h1> <h2>330 OF 360</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH811.330
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.12	45.65	1500	45.65	1500*
0	0	0	0	0.52	45.11	372	45.03	373
30	0	0	0	0.52	45.45	369	45.4	370
40	0	0	0	0.52	45.57	368	45.51	369
50	0	0	0	0.52	45.68	368	45.62	368
60	0	0	0	0.52	45.79	367	45.73	367
70	0	0	0	0.52	45.91	366	45.84	366
80	0	0	0	0.52	46	365	45.95	366
90	0	0	0	0.52	46.07	365	46.06	365
100	0	0	0	0.52	46.15	364	46.15	364
110	0	0	0	0.52	46.22	364	46.22	364
120	0	0	0	0.52	46.3	363	46.3	363
130	0	0	0	0.52	46.37	363	46.37	363
167	0	0	0	0.52	46.65	361	46.65	361
212	0	0	0	0.52	46.98	358	46.98	358
* Design Condition								

* Design Condition

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<div style="text-align: center;"> <p>SHEET</p> <p>331 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH811.331</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 1500 LBS</p> </div>					

Completely Revised



Information Removed

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
397.5 - 26/7 ACSR/AW TENSION 1500 LBS

OH811.331

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-8	1-9	1-9	1-9	1-10	1-10	1-10	1-10	1-11	1-11
125.00	2-8	2-8	2-9	2-9	2-10	2-10	2-11	2-11	2-11	3-0
150.00	3-9	3-10	3-11	4-0	4-0	4-1	4-2	4-3	4-3	4-4
175.00	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-10
200.00	6-9	6-10	7-0	7-1	7-2	7-4	7-5	7-6	7-7	7-8
225.00	8-6	8-8	8-10	9-0	9-1	9-3	9-4	9-6	9-7	9-8
250.00	10-7	10-9	10-11	11-1	11-3	11-5	11-7	11-9	11-10	12-0

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-8	1-9	1-9	1-9	1-10	1-10	1-10	1-10	1-11	1-11
125.00	2-8	2-8	2-9	2-9	2-10	2-10	2-11	2-11	2-11	3-0
150.00	3-10	3-11	3-11	4-0	4-1	4-2	4-2	4-3	4-3	4-4
175.00	5-2	5-3	5-5	5-6	5-7	5-8	5-8	5-9	5-10	5-10
200.00	6-10	6-11	7-0	7-2	7-3	7-4	7-5	7-6	7-7	7-8
225.00	8-7	8-9	8-11	9-0	9-2	9-4	9-5	9-6	9-7	9-8
250.00	10-8	10-10	11-0	11-2	11-4	11-6	11-8	11-9	11-10	12-0

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<div>SHEET</div> <div>333 OF 360</div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH811.333	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-11	3-11	4-0	4-0	4-0	4-1	4-1	4-1	4-2	4-2
175.00	5-4	5-5	5-5	5-5	5-6	5-6	5-7	5-7	5-8	5-8
200.00	7-0	7-0	7-1	7-1	7-2	7-3	7-3	7-4	7-4	7-5
225.00	8-10	8-11	8-11	9-0	9-1	9-2	9-2	9-3	9-4	9-4
250.00	10-11	11-0	11-1	11-2	11-3	11-4	11-4	11-5	11-6	11-7
275.00	13-2	13-4	13-5	13-6	13-7	13-8	13-9	13-10	13-11	14-0
300.00	15-9	15-10	15-11	16-1	16-2	16-3	16-5	16-6	16-7	16-8
325.00	18-6	18-7	18-9	18-10	19-0	19-1	19-3	19-4	19-6	19-7
350.00	21-5	21-7	21-9	21-11	22-0	22-2	22-4	22-6	22-7	22-8
375.00	24-7	24-10	25-0	25-2	25-4	25-6	25-8	25-10	26-0	26-1

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-11	4-0	4-0	4-0	4-1	4-1	4-1	4-1	4-2	4-2
175.00	5-4	5-5	5-5	5-6	5-6	5-7	5-7	5-7	5-8	5-8
200.00	7-0	7-1	7-1	7-2	7-2	7-3	7-3	7-4	7-4	7-5
225.00	8-10	8-11	9-0	9-1	9-1	9-2	9-3	9-3	9-4	9-4
250.00	10-11	11-0	11-1	11-2	11-3	11-4	11-5	11-5	11-6	11-7
275.00	13-3	13-4	13-5	13-6	13-8	13-9	13-10	13-10	13-11	14-0
300.00	15-9	15-11	16-0	16-1	16-3	16-4	16-5	16-6	16-7	16-8
325.00	18-6	18-8	18-10	18-11	19-1	19-2	19-4	19-5	19-6	19-7
350.00	21-6	21-8	21-10	22-0	22-1	22-3	22-5	22-6	22-7	22-8
375.00	24-8	24-11	25-1	25-3	25-5	25-7	25-9	25-10	26-0	26-1

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SHEET 334 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.334
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 1500 LBS					

Span = 100 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.12	1.33	2000	1.33	2000*
0	0	0	0	0.52	0.51	1276	0.48	1345
30	0	0	0	0.52	0.95	684	0.86	755
40	0	0	0	0.52	1.1	590	1.01	646
50	0	0	0	0.52	1.25	522	1.15	567
60	0	0	0	0.52	1.38	471	1.28	507
70	0	0	0	0.52	1.51	431	1.41	461
80	0	0	0	0.52	1.59	408	1.53	425
90	0	0	0	0.52	1.66	391	1.64	396
100	0	0	0	0.52	1.73	375	1.73	375
110	0	0	0	0.52	1.8	361	1.8	361
120	0	0	0	0.52	1.87	349	1.87	349
130	0	0	0	0.52	1.93	337	1.93	337
167	0	0	0	0.52	2.15	303	2.15	303
212	0	0	0	0.52	2.4	271	2.4	271

* Design Condition

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.12	5.32	2000	5.32	2000*
0	0	0	0	0.52	4.43	588	4.34	601
30	0	0	0	0.52	4.92	529	4.82	541
40	0	0	0	0.52	5.08	513	4.97	524
50	0	0	0	0.52	5.23	499	5.12	509
60	0	0	0	0.52	5.38	485	5.27	495
70	0	0	0	0.52	5.52	472	5.41	482
80	0	0	0	0.52	5.65	462	5.55	470
90	0	0	0	0.52	5.74	454	5.68	459
100	0	0	0	0.52	5.83	448	5.82	448
110	0	0	0	0.52	5.92	441	5.92	441
120	0	0	0	0.52	6	435	6	435
130	0	0	0	0.52	6.09	429	6.09	429
167	0	0	0	0.52	6.39	408	6.39	408
212	0	0	0	0.52	6.75	387	6.75	387

* Design Condition

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SHEET 337 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.337
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS									

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SHEET 338 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.338
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.12	33.73	2000	33.73	2000*
0	0	0	0	0.52	32.88	503	32.78	504
30	0	0	0	0.52	33.34	496	33.24	498
40	0	0	0	0.52	33.49	494	33.39	495
50	0	0	0	0.52	33.64	492	33.53	493
60	0	0	0	0.52	33.79	490	33.68	491
70	0	0	0	0.52	33.94	488	33.83	489
80	0	0	0	0.52	34.09	485	33.97	487
90	0	0	0	0.52	34.2	484	34.12	485
100	0	0	0	0.52	34.3	483	34.27	483
110	0	0	0	0.52	34.4	481	34.4	481
120	0	0	0	0.52	34.5	480	34.5	480
130	0	0	0	0.52	34.6	479	34.6	479
167	0	0	0	0.52	34.96	474	34.96	474
212	0	0	0	0.52	35.39	468	35.39	468

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>339 OF 360</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH811.339</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 2000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-0
100.00	0-9	0-10	1-0	1-2	1-3	1-5	1-6	1-8	1-9	1-10
125.00	1-1	1-4	1-7	1-10	2-0	2-2	2-5	2-7	2-9	2-10
150.00	1-7	1-11	2-3	2-7	2-11	3-2	3-5	3-8	3-11	4-1
175.00	2-2	2-8	3-1	3-6	3-11	4-4	4-8	5-0	5-4	5-6
200.00	2-11	3-5	4-0	4-7	5-2	5-8	6-2	6-7	6-11	7-3

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-0
100.00	0-10	0-11	1-1	1-3	1-5	1-6	1-7	1-8	1-9	1-10
125.00	1-3	1-6	1-9	1-11	2-2	2-4	2-6	2-7	2-9	2-10
150.00	1-9	2-2	2-6	2-10	3-1	3-5	3-7	3-9	3-11	4-1
175.00	2-5	2-11	3-5	3-10	4-3	4-7	4-11	5-1	5-4	5-6
200.00	3-2	3-10	4-5	5-0	5-6	6-0	6-5	6-8	6-11	7-3

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<div style="text-align: center;"> <p>SHEET</p> <p>340 OF 360</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH811.340</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 2000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-5	1-6
125.00	1-10	1-11	1-11	2-0	2-1	2-1	2-2	2-3	2-3	2-4
150.00	2-7	2-9	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-4
175.00	3-7	3-8	3-10	3-11	4-0	4-2	4-3	4-4	4-5	4-6
200.00	4-8	4-10	5-0	5-1	5-3	5-5	5-7	5-8	5-10	5-11
225.00	5-11	6-1	6-4	6-6	6-8	6-10	7-0	7-2	7-4	7-6
250.00	7-3	7-6	7-9	8-0	8-3	8-5	8-8	8-11	9-1	9-3

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-5	1-5	1-6
125.00	1-10	1-11	2-0	2-0	2-1	2-2	2-2	2-3	2-3	2-4
150.00	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-3	3-4
175.00	3-8	3-9	3-11	4-0	4-1	4-3	4-4	4-5	4-6	4-6
200.00	4-9	4-11	5-1	5-3	5-5	5-6	5-8	5-9	5-10	5-11
225.00	6-0	6-3	6-5	6-7	6-10	7-0	7-2	7-3	7-5	7-6
250.00	7-5	7-8	7-11	8-2	8-5	8-8	8-10	9-0	9-1	9-3

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 341 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.341
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-10	2-10	2-11	2-11	3-0	3-0	3-1	3-1	3-2	3-2
175.00	3-10	3-11	4-0	4-0	4-1	4-1	4-2	4-2	4-3	4-4
200.00	5-1	5-1	5-2	5-3	5-4	5-4	5-5	5-6	5-7	5-7
225.00	6-5	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-0	7-1
250.00	7-11	8-0	8-1	8-2	8-4	8-5	8-6	8-7	8-8	8-9
275.00	9-6	9-8	9-10	9-11	10-0	10-2	10-3	10-5	10-6	10-7
300.00	11-4	11-6	11-8	11-10	11-11	12-1	12-3	12-5	12-6	12-8
325.00	13-4	13-6	13-8	13-10	14-0	14-2	14-4	14-6	14-8	14-10
350.00	15-6	15-8	15-11	16-1	16-3	16-6	16-8	16-10	17-1	17-3
375.00	17-9	18-0	18-3	18-6	18-8	18-11	19-2	19-5	19-7	19-9

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-10	2-11	2-11	3-0	3-0	3-1	3-1	3-1	3-2	3-2
175.00	3-11	3-11	4-0	4-1	4-1	4-2	4-2	4-3	4-3	4-4
200.00	5-1	5-2	5-3	5-3	5-4	5-5	5-6	5-6	5-7	5-7
225.00	6-5	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-1	7-1
250.00	7-11	8-1	8-2	8-3	8-4	8-6	8-7	8-8	8-8	8-9
275.00	9-7	9-9	9-11	10-0	10-2	10-3	10-5	10-6	10-6	10-7
300.00	11-5	11-7	11-9	11-11	12-1	12-3	12-4	12-5	12-7	12-8
325.00	13-5	13-8	13-10	14-0	14-2	14-4	14-6	14-7	14-9	14-10
350.00	15-7	15-10	16-0	16-3	16-5	16-8	16-10	17-0	17-1	17-3
375.00	17-11	18-2	18-5	18-8	18-10	19-1	19-4	19-6	19-8	19-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 342 OF 360		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH811.342	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-2	5-3	5-3	5-4	5-4	5-4	5-5	5-5	5-6	5-6
225.00	6-7	6-7	6-8	6-8	6-9	6-10	6-10	6-11	6-11	7-0
250.00	8-1	8-2	8-3	8-3	8-4	8-5	8-5	8-6	8-7	8-7
275.00	9-10	9-11	9-11	10-0	10-1	10-2	10-3	10-4	10-4	10-5
300.00	11-8	11-9	11-10	11-11	12-0	12-1	12-2	12-3	12-4	12-5
325.00	13-9	13-10	13-11	14-0	14-1	14-2	14-4	14-5	14-6	14-7
350.00	15-11	16-0	16-2	16-3	16-4	16-6	16-7	16-8	16-10	16-11
375.00	18-3	18-5	18-6	18-8	18-10	18-11	19-1	19-2	19-4	19-5
400.00	20-10	20-11	21-1	21-3	21-5	21-7	21-8	21-10	22-0	22-1
425.00	23-6	23-8	23-10	24-0	24-2	24-4	24-6	24-8	24-10	25-0
450.00	26-4	26-7	26-9	26-11	27-1	27-4	27-6	27-8	27-10	28-0
475.00	29-5	29-7	29-10	30-0	30-3	30-5	30-8	30-10	31-0	31-3
500.00	32-7	32-10	33-0	33-3	33-6	33-9	34-0	34-2	34-5	34-7

Stringing Sag Table Using Final Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-3	5-3	5-3	5-4	5-4	5-5	5-5	5-6	5-6	5-6
225.00	6-7	6-8	6-8	6-9	6-9	6-10	6-11	6-11	6-11	7-0
250.00	8-2	8-2	8-3	8-4	8-5	8-5	8-6	8-6	8-7	8-7
275.00	9-10	9-11	10-0	10-1	10-2	10-3	10-3	10-4	10-5	10-5
300.00	11-9	11-10	11-11	12-0	12-1	12-2	12-3	12-4	12-4	12-5
325.00	13-9	13-11	14-0	14-1	14-2	14-3	14-5	14-5	14-6	14-7
350.00	16-0	16-1	16-3	16-4	16-5	16-7	16-8	16-9	16-10	16-11
375.00	18-4	18-6	18-8	18-9	18-11	19-0	19-2	19-3	19-4	19-5
400.00	20-11	21-1	21-2	21-4	21-6	21-8	21-10	21-11	22-0	22-1
425.00	23-7	23-9	23-11	24-1	24-4	24-6	24-8	24-9	24-10	25-0
450.00	26-6	26-8	26-10	27-1	27-3	27-5	27-8	27-9	27-11	28-0
475.00	29-6	29-9	29-11	30-2	30-5	30-7	30-10	30-11	31-1	31-3
500.00	32-9	33-0	33-2	33-5	33-8	33-11	34-2	34-4	34-6	34-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 343 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH811.343
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2000 LBS					

Span = 100 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.12	1.06	2500	1.06	2500*
0	0	0	0	0.52	0.29	2254	0.29	2268
30	0	0	0	0.52	0.54	1207	0.47	1384
40	0	0	0	0.52	0.68	961	0.57	1133
50	0	0	0	0.52	0.83	782	0.7	927
60	0	0	0	0.52	0.99	658	0.84	771
70	0	0	0	0.52	1.14	571	0.99	657
80	0	0	0	0.52	1.26	515	1.13	575
90	0	0	0	0.52	1.34	486	1.27	513
100	0	0	0	0.52	1.41	461	1.4	466
110	0	0	0	0.52	1.49	437	1.49	437
120	0	0	0	0.52	1.56	417	1.56	417
130	0	0	0	0.52	1.63	399	1.63	399
167	0	0	0	0.52	1.88	347	1.88	347
212	0	0	0	0.52	2.15	303	2.15	303

* Design Condition

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.12	4.25	2500	4.25	2500*
0	0	0	0	0.52	2.94	886	2.78	935
30	0	0	0	0.52	3.59	726	3.41	762
40	0	0	0	0.52	3.79	688	3.61	721
50	0	0	0	0.52	3.98	655	3.8	685
60	0	0	0	0.52	4.16	626	3.98	654
70	0	0	0	0.52	4.34	600	4.16	626
80	0	0	0	0.52	4.51	577	4.33	601
90	0	0	0	0.52	4.64	562	4.5	579
100	0	0	0	0.52	4.74	550	4.66	559
110	0	0	0	0.52	4.84	539	4.82	541
120	0	0	0	0.52	4.94	527	4.94	527
130	0	0	0	0.52	5.04	517	5.04	517
167	0	0	0	0.52	5.39	484	5.39	484
212	0	0	0	0.52	5.8	450	5.8	450

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 345 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH811.345
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS										

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.12	17.08	2500	17.08	2500*
0	0	0	0	0.52	15.83	661	15.68	668
30	0	0	0	0.52	16.42	638	16.25	644
40	0	0	0	0.52	16.62	630	16.44	637
50	0	0	0	0.52	16.81	623	16.63	630
60	0	0	0	0.52	17	616	16.81	623
70	0	0	0	0.52	17.18	610	16.99	616
80	0	0	0	0.52	17.37	603	17.18	610
90	0	0	0	0.52	17.53	598	17.36	604
100	0	0	0	0.52	17.65	594	17.53	598
110	0	0	0	0.52	17.77	590	17.71	592
120	0	0	0	0.52	17.89	586	17.89	586
130	0	0	0	0.52	18	582	18	582
167	0	0	0	0.52	18.43	569	18.43	569
212	0	0	0	0.52	18.94	554	18.94	554
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>346 OF 360</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH811.346
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-2	2-2	2-3	2-3	2-4	2-4	2-5	2-6	2-6	2-7
175.00	2-11	3-0	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-6
200.00	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-4	4-5	4-6
225.00	4-10	4-11	5-0	5-2	5-3	5-4	5-5	5-6	5-8	5-9
250.00	5-11	6-1	6-2	6-4	6-6	6-7	6-9	6-10	6-11	7-1
275.00	7-2	7-4	7-6	7-8	7-10	8-0	8-1	8-3	8-5	8-7
300.00	8-7	8-9	8-11	9-1	9-4	9-6	9-8	9-10	10-0	10-2
325.00	10-0	10-3	10-6	10-9	10-11	11-2	11-4	11-7	11-9	12-0
350.00	11-8	11-11	12-2	12-5	12-8	12-11	13-2	13-5	13-8	13-11
375.00	13-4	13-8	14-0	14-3	14-7	14-10	15-1	15-5	15-8	15-11

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-2	2-3	2-3	2-4	2-4	2-5	2-6	2-6	2-6	2-7
175.00	3-0	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-5	3-6
200.00	3-10	4-0	4-1	4-2	4-3	4-4	4-5	4-5	4-6	4-7
225.00	4-11	5-0	5-1	5-3	5-4	5-5	5-6	5-8	5-8	5-9
250.00	6-1	6-2	6-4	6-5	6-7	6-9	6-10	6-11	7-0	7-1
275.00	7-4	7-6	7-8	7-10	8-0	8-2	8-3	8-5	8-6	8-7
300.00	8-9	8-11	9-1	9-4	9-6	9-8	9-10	10-0	10-1	10-3
325.00	10-3	10-6	10-8	10-11	11-2	11-4	11-7	11-9	11-11	12-0
350.00	11-10	12-2	12-5	12-8	12-11	13-2	13-5	13-8	13-9	13-11
375.00	13-8	13-11	14-3	14-7	14-10	15-2	15-5	15-8	15-10	16-0

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>350 OF 360</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH811.350	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-0	4-1	4-1	4-2	4-2	4-3	4-3	4-4	4-5	4-5
225.00	5-1	5-2	5-2	5-3	5-4	5-4	5-5	5-6	5-6	5-7
250.00	6-3	6-4	6-5	6-6	6-7	6-8	6-8	6-9	6-10	6-11
275.00	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3	8-4
300.00	9-0	9-2	9-3	9-4	9-5	9-7	9-8	9-9	9-10	9-11
325.00	10-7	10-9	10-10	11-0	11-1	11-3	11-4	11-5	11-7	11-8
350.00	12-3	12-5	12-7	12-9	12-10	13-0	13-2	13-3	13-5	13-7
375.00	14-1	14-3	14-5	14-7	14-9	14-11	15-1	15-3	15-5	15-7
400.00	16-1	16-3	16-5	16-8	16-10	17-0	17-2	17-4	17-6	17-9
425.00	18-2	18-4	18-7	18-9	19-0	19-2	19-5	19-7	19-10	20-0
450.00	20-4	20-7	20-10	21-1	21-3	21-6	21-9	22-0	22-2	22-5
475.00	22-8	22-11	23-2	23-6	23-9	24-0	24-3	24-6	24-9	25-0
500.00	25-2	25-5	25-9	26-0	26-4	26-7	26-10	27-2	27-5	27-9

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-1	4-1	4-2	4-2	4-3	4-3	4-4	4-4	4-5	4-5
225.00	5-2	5-2	5-3	5-4	5-4	5-5	5-6	5-6	5-7	5-7
250.00	6-4	6-5	6-6	6-7	6-8	6-8	6-9	6-10	6-11	6-11
275.00	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3	8-4	8-5
300.00	9-1	9-3	9-4	9-5	9-7	9-8	9-9	9-10	9-11	10-0
325.00	10-8	10-10	11-0	11-1	11-3	11-4	11-5	11-7	11-8	11-9
350.00	12-5	12-7	12-9	12-10	13-0	13-2	13-3	13-5	13-6	13-7
375.00	14-3	14-5	14-7	14-9	14-11	15-1	15-3	15-5	15-6	15-7
400.00	16-3	16-5	16-7	16-10	17-0	17-2	17-4	17-6	17-8	17-9
425.00	18-4	18-7	18-9	19-0	19-2	19-5	19-7	19-10	19-11	20-1
450.00	20-7	20-10	21-0	21-3	21-6	21-9	22-0	22-2	22-4	22-6
475.00	22-11	23-2	23-5	23-9	24-0	24-3	24-6	24-9	24-11	25-1
500.00	25-5	25-8	26-0	26-4	26-7	26-11	27-2	27-5	27-7	27-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>351 OF 360</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.351
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 2500 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.12	14.21	3000	14.21	3000*
0	0	0	0	0.52	12.47	837	12.22	854
30	0	0	0	0.52	13.2	791	12.94	807
40	0	0	0	0.52	13.44	777	13.17	793
50	0	0	0	0.52	13.67	764	13.39	780
60	0	0	0	0.52	13.9	752	13.62	767
70	0	0	0	0.52	14.12	740	13.84	755
80	0	0	0	0.52	14.34	729	14.06	744
90	0	0	0	0.52	14.56	718	14.27	732
100	0	0	0	0.52	14.72	711	14.48	722
110	0	0	0	0.52	14.85	704	14.69	712
120	0	0	0	0.52	14.99	698	14.9	702
130	0	0	0	0.52	15.12	692	15.11	692
167	0	0	0	0.52	15.62	670	15.62	670
212	0	0	0	0.52	16.21	646	16.21	646

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 354 OF 360		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH811.354
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS											

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.12	22.26	3000	22.26	3000*
0	0	0	0	0.52	20.55	796	20.3	806
30	0	0	0	0.52	21.26	770	20.99	780
40	0	0	0	0.52	21.49	762	21.22	771
50	0	0	0	0.52	21.72	754	21.45	763
60	0	0	0	0.52	21.95	746	21.67	756
70	0	0	0	0.52	22.18	739	21.89	748
80	0	0	0	0.52	22.4	731	22.11	741
90	0	0	0	0.52	22.62	724	22.33	734
100	0	0	0	0.52	22.78	719	22.54	727
110	0	0	0	0.52	22.93	715	22.76	720
120	0	0	0	0.52	23.07	710	22.97	713
130	0	0	0	0.52	23.21	706	23.18	707
167	0	0	0	0.52	23.73	691	23.73	691
212	0	0	0	0.52	24.34	674	24.34	674

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>355 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH811.355</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING</p> <p>397.5 - 26/7 ACSR/AW TENSION 3000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-4	0-4	0-5	0-6	0-7	0-8
100.00	0-3	0-4	0-4	0-5	0-6	0-8	0-9	0-11	1-1	1-3
125.00	0-5	0-6	0-7	0-8	0-10	1-0	1-3	1-5	1-8	1-11
150.00	0-7	0-8	0-10	1-0	1-2	1-5	1-9	2-1	2-5	2-9
175.00	0-10	0-11	1-1	1-4	1-7	2-0	2-5	2-10	3-3	3-9
200.00	1-1	1-3	1-5	1-9	2-1	2-7	3-2	3-9	4-4	4-10

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-4	0-5	0-6	0-7	0-7	0-8	0-8
100.00	0-3	0-4	0-5	0-6	0-8	0-10	1-0	1-1	1-2	1-3
125.00	0-5	0-6	0-8	0-10	1-1	1-3	1-6	1-8	1-10	1-11
150.00	0-8	0-9	0-11	1-2	1-6	1-10	2-3	2-5	2-7	2-9
175.00	0-11	1-1	1-4	1-8	2-1	2-6	3-0	3-3	3-6	3-9
200.00	1-2	1-5	1-8	2-2	2-8	3-4	3-11	4-4	4-7	4-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>356 OF 360</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.356
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11	0-11	1-0
125.00	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7
150.00	1-2	1-4	1-5	1-7	1-8	1-10	1-11	2-0	2-2	2-3
175.00	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-1
200.00	2-1	2-4	2-6	2-9	3-0	3-2	3-5	3-7	3-9	4-0
225.00	2-8	2-11	3-3	3-6	3-9	4-1	4-4	4-7	4-10	5-0
250.00	3-3	3-7	4-0	4-4	4-8	5-0	5-4	5-7	5-11	6-3

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-0	1-0
125.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7
150.00	1-4	1-5	1-7	1-8	1-10	1-11	2-1	2-2	2-3	2-3
175.00	1-9	1-11	2-2	2-4	2-6	2-8	2-10	2-11	3-0	3-1
200.00	2-4	2-7	2-10	3-0	3-3	3-6	3-8	3-10	3-11	4-1
225.00	2-11	3-3	3-6	3-10	4-1	4-5	4-8	4-10	5-0	5-2
250.00	3-7	4-0	4-4	4-9	5-1	5-5	5-9	6-0	6-2	6-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>357 OF 360</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH811.357
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-2	3-3	3-3	3-4	3-5	3-5	3-6	3-7	3-7	3-8
225.00	4-0	4-1	4-2	4-3	4-4	4-4	4-5	4-6	4-7	4-8
250.00	4-11	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9
275.00	6-0	6-1	6-3	6-4	6-5	6-6	6-8	6-9	6-10	6-11
300.00	7-2	7-3	7-5	7-6	7-8	7-9	7-11	8-0	8-2	8-3
325.00	8-5	8-6	8-8	8-10	9-0	9-2	9-3	9-5	9-7	9-8
350.00	9-9	9-11	10-1	10-3	10-5	10-7	10-9	10-11	11-1	11-3
375.00	11-2	11-4	11-7	11-9	12-0	12-2	12-4	12-6	12-9	12-11
400.00	12-8	12-11	13-2	13-5	13-7	13-10	14-1	14-3	14-6	14-8
425.00	14-4	14-7	14-10	15-1	15-5	15-8	15-10	16-1	16-4	16-7
450.00	16-1	16-5	16-8	16-11	17-3	17-6	17-10	18-1	18-4	18-7
475.00	17-11	18-3	18-7	18-11	19-3	19-6	19-10	20-2	20-5	20-9
500.00	19-10	20-3	20-7	20-11	21-4	21-8	22-0	22-4	22-8	23-0

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-3	3-4	3-4	3-5	3-6	3-6	3-7	3-8	3-8	3-8
225.00	4-1	4-2	4-3	4-4	4-5	4-6	4-6	4-7	4-8	4-8
250.00	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10
275.00	6-1	6-3	6-4	6-5	6-7	6-8	6-9	6-11	6-11	7-0
300.00	7-3	7-5	7-7	7-8	7-10	7-11	8-1	8-2	8-3	8-4
325.00	8-7	8-9	8-10	9-0	9-2	9-4	9-6	9-7	9-8	9-10
350.00	9-11	10-1	10-3	10-6	10-8	10-10	11-0	11-2	11-3	11-4
375.00	11-5	11-7	11-10	12-0	12-3	12-5	12-7	12-10	12-11	13-1
400.00	13-0	13-2	13-5	13-8	13-11	14-1	14-4	14-7	14-9	14-10
425.00	14-8	14-11	15-2	15-5	15-8	15-11	16-2	16-5	16-7	16-9
450.00	16-5	16-9	17-0	17-4	17-7	17-11	18-2	18-5	18-8	18-10
475.00	18-4	18-8	19-0	19-3	19-7	19-11	20-3	20-7	20-9	21-0
500.00	20-3	20-8	21-0	21-5	21-9	22-1	22-5	22-9	23-0	23-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 359 OF 360		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH811.359
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS											

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-2	5-3	5-4	5-4	5-5	5-6	5-6	5-7	5-7	5-8
275.00	6-3	6-4	6-5	6-6	6-7	6-7	6-8	6-9	6-10	6-10
300.00	7-6	7-7	7-8	7-9	7-9	7-10	7-11	8-0	8-1	8-2
325.00	8-9	8-10	8-11	9-1	9-2	9-3	9-4	9-5	9-6	9-7
350.00	10-2	10-3	10-5	10-6	10-7	10-9	10-10	10-11	11-0	11-2
375.00	11-8	11-10	11-11	12-1	12-2	12-4	12-5	12-7	12-8	12-9
400.00	13-3	13-5	13-7	13-9	13-10	14-0	14-2	14-3	14-5	14-7
425.00	15-0	15-2	15-4	15-6	15-8	15-10	16-0	16-1	16-3	16-5
450.00	16-10	17-0	17-2	17-4	17-7	17-9	17-11	18-1	18-3	18-5
475.00	18-9	18-11	19-2	19-4	19-7	19-9	19-11	20-2	20-4	20-6
500.00	20-9	21-0	21-3	21-5	21-8	21-11	22-1	22-4	22-7	22-9
525.00	22-11	23-2	23-5	23-8	23-11	24-2	24-5	24-7	24-10	25-1
550.00	25-2	25-5	25-8	26-0	26-3	26-6	26-9	27-0	27-4	27-7
575.00	27-6	27-9	28-1	28-5	28-8	29-0	29-3	29-7	29-10	30-1
600.00	29-11	30-3	30-7	30-11	31-3	31-7	31-10	32-2	32-6	32-10
625.00	32-6	32-10	33-2	33-7	33-11	34-3	34-7	34-11	35-3	35-7

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-3	5-4	5-4	5-5	5-6	5-6	5-7	5-8	5-8	5-9
275.00	6-4	6-5	6-6	6-7	6-8	6-8	6-9	6-10	6-11	6-11
300.00	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-2	8-3
325.00	8-10	9-0	9-1	9-2	9-3	9-4	9-5	9-7	9-7	9-8
350.00	10-3	10-5	10-6	10-8	10-9	10-10	11-0	11-1	11-2	11-3
375.00	11-10	11-11	12-1	12-2	12-4	12-6	12-7	12-9	12-10	12-11
400.00	13-5	13-7	13-9	13-11	14-0	14-2	14-4	14-6	14-7	14-8
425.00	15-2	15-4	15-6	15-8	15-10	16-0	16-2	16-4	16-5	16-7
450.00	17-0	17-3	17-5	17-7	17-9	17-11	18-2	18-4	18-5	18-7
475.00	19-0	19-2	19-5	19-7	19-10	20-0	20-3	20-5	20-7	20-8
500.00	21-0	21-3	21-6	21-9	21-11	22-2	22-5	22-7	22-9	22-11
525.00	23-2	23-5	23-8	23-11	24-2	24-5	24-8	24-11	25-2	25-3
550.00	25-5	25-9	26-0	26-4	26-7	26-10	27-1	27-5	27-7	27-9
575.00	27-10	28-2	28-5	28-9	29-1	29-4	29-8	29-11	30-2	30-4
600.00	30-4	30-8	31-0	31-4	31-8	32-0	32-4	32-7	32-10	33-1
625.00	32-11	33-3	33-8	34-0	34-4	34-8	35-1	35-5	35-8	35-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
		<div>Indicates Latest Revision</div>			Completely Revised	X	New Page		Information Removed		
SHEET 360 OF 360		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									OH811.360
		STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING 397.5 - 26/7 ACSR/AW TENSION 3000 LBS									

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

1000 LB TENSION	-----	812.3
1500 LB TENSION	-----	812.11
2000 LB TENSION	-----	812.19
2500 LB TENSION	-----	812.27
3000 LB TENSION	-----	812.35

1000 LB TENSION	-----	812.43
1500 LB TENSION	-----	812.51
2000 LB TENSION	-----	812.59
2500 LB TENSION	-----	812.67
3000 LB TENSION	-----	812.75

1000 LB TENSION	812.83
1500 LB TENSION	812.89
2000 LB TENSION	812.97
2500 LB TENSION	812.105
3000 LB TENSION	812.113

1000 LB TENSION -----	812.121
1500 LB TENSION -----	812.129
2000 LB TENSION -----	812.137
2500 LB TENSION -----	812.145
3000 LB TENSION -----	812.153

1000 LB TENSION	812.161
1500 LB TENSION	812.169
2000 LB TENSION	812.177
2500 LB TENSION	812.185
3000 LB TENSION	812.193

1000 LB TENSION	812.201
1500 LB TENSION	812.209
2000 LB TENSION	812.217
2500 LB TENSION	812.225
3000 LB TENSION	812.233

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<div style="text-align: center;"> <p>SHEET</p> <p>1 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	<div style="text-align: center;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH812.1</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	636 - 24/7 ACSR/AW TABLE OF CONTENTS					

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

1000 LB TENSION -----	812.241
1500 LB TENSION -----	812.249
2000 LB TENSION -----	812.257
2500 LB TENSION -----	812.265
3000 LB TENSION -----	812.273

1000 LB TENSION -----	812.281
1500 LB TENSION -----	812.289
2000 LB TENSION -----	812.297
2500 LB TENSION -----	812.305
3000 LB TENSION -----	812.313

1000 LB TENSION -----	812.321
1500 LB TENSION -----	812.329
2000 LB TENSION -----	812.337
2500 LB TENSION -----	812.345
3000 LB TENSION -----	812.353

a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 2 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.2
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		636 - 24/7 ACSR/AW TABLE OF CONTENTS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.02	32.46	998	32.41	1000*
25	0	0	0	0.785	32.41	770	32.35	771
30	0	0	0	0.785	32.49	768	32.43	769
40	0	0	0	0.785	32.65	764	32.59	766
50	0	0	0	0.785	32.81	761	32.75	762
60	0	0	0	0.785	32.97	757	32.91	758
70	0	0	0	0.785	33.13	754	33.06	755
80	0	0	0	0.785	33.28	750	33.22	752
90	0	0	0	0.785	33.44	747	33.37	748
100	0	0	0	0.785	33.6	743	33.53	745
110	0	0	0	0.785	33.74	740	33.68	742
120	0	0	0	0.785	33.84	738	33.84	738
130	0	0	0	0.785	33.94	736	33.94	736
167	0	0	0	0.785	34.31	728	34.31	728
212	0	0	0	0.785	34.75	720	34.75	720

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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OH812.5

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1000 LBS

SHEET
5 OF 360

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-11	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-5
100.00	1-8	1-9	1-11	2-0	2-1	2-2	2-3	2-5	2-6	2-6
125.00	2-7	2-9	2-11	3-1	3-3	3-5	3-7	3-9	3-10	4-0
150.00	3-9	4-0	4-3	4-6	4-9	4-11	5-2	5-4	5-7	5-9
175.00	5-1	5-5	5-9	6-1	6-5	6-9	7-0	7-4	7-7	7-10
200.00	6-7	7-1	7-7	8-0	8-5	8-9	9-2	9-6	9-11	10-2

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-11	1-0	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-5
100.00	1-8	1-9	1-11	2-0	2-1	2-2	2-4	2-5	2-6	2-6
125.00	2-7	2-9	3-0	3-2	3-3	3-5	3-7	3-9	3-10	4-0
150.00	3-9	4-0	4-3	4-6	4-9	5-0	5-2	5-5	5-7	5-9
175.00	5-1	5-5	5-10	6-2	6-5	6-9	7-1	7-4	7-7	7-10
200.00	6-8	7-1	7-7	8-0	8-5	8-10	9-3	9-7	9-11	10-2

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 6 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.6
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span:	200.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-9	1-9	1-9	1-10	1-10	1-10	1-11	1-11	1-11	2-0
125.00	2-8	2-9	2-9	2-10	2-11	2-11	3-0	3-0	3-1	3-1
150.00	3-11	3-11	4-0	4-1	4-2	4-3	4-3	4-4	4-5	4-6
175.00	5-3	5-5	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1
200.00	6-11	7-0	7-2	7-3	7-5	7-6	7-7	7-9	7-10	7-11
225.00	8-9	8-11	9-1	9-2	9-4	9-6	9-8	9-10	9-11	10-1
250.00	10-10	11-0	11-2	11-4	11-7	11-9	11-11	12-1	12-3	12-5

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-9	1-9	1-9	1-10	1-10	1-11	1-11	1-11	2-0	2-0
125.00	2-8	2-9	2-10	2-10	2-11	2-11	3-0	3-0	3-1	3-1
150.00	3-11	3-11	4-0	4-1	4-2	4-3	4-3	4-4	4-5	4-6
175.00	5-3	5-5	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1
200.00	6-11	7-0	7-2	7-3	7-5	7-6	7-8	7-9	7-10	8-0
225.00	8-9	8-11	9-1	9-3	9-4	9-6	9-8	9-10	9-11	10-1
250.00	10-10	11-0	11-2	11-5	11-7	11-9	11-11	12-1	12-3	12-6

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 7 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.7
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-11	3-11	4-0	4-0	4-1	4-1	4-1	4-2	4-2	4-2
175.00	5-4	5-5	5-5	5-6	5-6	5-7	5-7	5-8	5-8	5-9
200.00	7-0	7-0	7-1	7-2	7-2	7-3	7-4	7-4	7-5	7-6
225.00	8-10	8-11	9-0	9-1	9-1	9-2	9-3	9-4	9-5	9-5
250.00	10-11	11-0	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8
275.00	13-3	13-4	13-5	13-6	13-8	13-9	13-10	13-11	14-0	14-2
300.00	15-9	15-10	16-0	16-1	16-3	16-4	16-6	16-7	16-9	16-10
325.00	18-6	18-8	18-9	18-11	19-1	19-3	19-4	19-6	19-8	19-9
350.00	21-6	21-8	21-10	22-0	22-2	22-4	22-6	22-8	22-10	22-11
375.00	24-8	24-10	25-1	25-3	25-5	25-7	25-10	26-0	26-2	26-4

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-11	4-0	4-0	4-0	4-1	4-1	4-1	4-2	4-2	4-2
175.00	5-4	5-5	5-5	5-6	5-6	5-7	5-7	5-8	5-8	5-9
200.00	7-0	7-1	7-1	7-2	7-2	7-3	7-4	7-4	7-5	7-6
225.00	8-10	8-11	9-0	9-1	9-2	9-2	9-3	9-4	9-5	9-6
250.00	10-11	11-0	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8
275.00	13-3	13-4	13-5	13-7	13-8	13-9	13-10	13-11	14-1	14-2
300.00	15-9	15-11	16-0	16-2	16-3	16-4	16-6	16-7	16-9	16-10
325.00	18-6	18-8	18-10	18-11	19-1	19-3	19-4	19-6	19-8	19-10
350.00	21-6	21-8	21-10	22-0	22-2	22-4	22-6	22-8	22-10	23-0
375.00	24-8	24-10	25-1	25-3	25-5	25-8	25-10	26-0	26-2	26-5

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 8 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.8
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-1	7-1	7-1	7-2	7-2	7-2	7-3	7-3	7-3	7-4
225.00	8-11	9-0	9-0	9-0	9-1	9-1	9-2	9-2	9-3	9-3
250.00	11-0	11-1	11-1	11-2	11-3	11-3	11-4	11-4	11-5	11-5
275.00	13-4	13-5	13-5	13-6	13-7	13-8	13-8	13-9	13-10	13-10
300.00	15-11	15-11	16-0	16-1	16-2	16-3	16-4	16-4	16-5	16-6
325.00	18-8	18-9	18-10	18-11	19-0	19-1	19-2	19-3	19-4	19-5
350.00	21-8	21-9	21-10	21-11	22-0	22-1	22-3	22-4	22-5	22-6
375.00	24-10	25-0	25-1	25-2	25-4	25-5	25-6	25-8	25-9	25-10
400.00	28-4	28-5	28-7	28-8	28-10	28-11	29-1	29-2	29-4	29-5
425.00	32-0	32-2	32-3	32-5	32-7	32-8	32-10	33-0	33-1	33-3
450.00	35-11	36-1	36-3	36-5	36-6	36-8	36-10	37-0	37-2	37-4
475.00	40-0	40-3	40-5	40-7	40-9	40-11	41-1	41-3	41-5	41-7
500.00	44-5	44-7	44-10	45-0	45-2	45-5	45-7	45-9	46-0	46-2

Stringing Sag Table Using Final Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-1	7-1	7-1	7-2	7-2	7-2	7-3	7-3	7-3	7-4
225.00	8-11	9-0	9-0	9-0	9-1	9-1	9-2	9-2	9-3	9-3
250.00	11-0	11-1	11-1	11-2	11-3	11-3	11-4	11-4	11-5	11-5
275.00	13-4	13-5	13-6	13-6	13-7	13-8	13-8	13-9	13-10	13-10
300.00	15-11	15-11	16-0	16-1	16-2	16-3	16-4	16-4	16-5	16-6
325.00	18-8	18-9	18-10	18-11	19-0	19-1	19-2	19-3	19-4	19-5
350.00	21-8	21-9	21-10	21-11	22-0	22-2	22-3	22-4	22-5	22-6
375.00	24-10	25-0	25-1	25-2	25-4	25-5	25-6	25-8	25-9	25-10
400.00	28-4	28-5	28-7	28-8	28-10	28-11	29-1	29-2	29-4	29-5
425.00	32-0	32-2	32-3	32-5	32-7	32-9	32-10	33-0	33-2	33-3
450.00	35-11	36-1	36-3	36-5	36-7	36-8	36-10	37-0	37-2	37-4
475.00	40-1	40-3	40-5	40-7	40-9	40-11	41-1	41-3	41-6	41-8
500.00	44-5	44-7	44-10	45-0	45-3	45-5	45-7	45-10	46-0	46-2

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SHEET 9 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.9
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 1000 LBS					

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.02	13.84	1481	13.66	1500*
25	0	0	0	0.785	13.72	1150	13.53	1166
30	0	0	0	0.785	13.84	1140	13.64	1156
40	0	0	0	0.785	14.07	1121	13.87	1137
50	0	0	0	0.785	14.3	1104	14.1	1119
60	0	0	0	0.785	14.52	1087	14.33	1101
70	0	0	0	0.785	14.75	1071	14.55	1085
80	0	0	0	0.785	14.96	1055	14.77	1069
90	0	0	0	0.785	15.18	1040	14.98	1054
100	0	0	0	0.785	15.39	1026	15.2	1039
110	0	0	0	0.785	15.6	1012	15.41	1025
120	0	0	0	0.785	15.79	1001	15.61	1012
130	0	0	0	0.785	15.92	993	15.82	999
167	0	0	0	0.785	16.4	964	16.4	964
212	0	0	0	0.785	16.95	933	16.95	933

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>12 OF 360</h2> </div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH812.12	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 1500 LBS									


Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.02	21.6	1487	21.41	1500*
25	0	0	0	0.785	21.47	1151	21.27	1162
30	0	0	0	0.785	21.59	1145	21.39	1155
40	0	0	0	0.785	21.83	1132	21.62	1143
50	0	0	0	0.785	22.06	1121	21.85	1131
60	0	0	0	0.785	22.29	1109	22.08	1120
70	0	0	0	0.785	22.52	1098	22.31	1108
80	0	0	0	0.785	22.75	1087	22.54	1097
90	0	0	0	0.785	22.97	1077	22.76	1087
100	0	0	0	0.785	23.19	1067	22.98	1076
110	0	0	0	0.785	23.42	1057	23.2	1066
120	0	0	0	0.785	23.63	1047	23.42	1057
130	0	0	0	0.785	23.77	1041	23.64	1047
167	0	0	0	0.785	24.28	1020	24.28	1020
212	0	0	0	0.785	24.88	996	24.88	996

* Design Condition

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>13 OF 360</p> </div>	Indicates Latest Revision		Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH812.13</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 1500 LBS</p> </div>					

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Information Removed

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.13

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-2
100.00	1-0	1-2	1-4	1-6	1-7	1-9	1-10	1-11	2-1	2-2
125.00	1-7	1-10	2-1	2-3	2-6	2-8	2-10	3-0	3-2	3-4
150.00	2-4	2-8	3-0	3-4	3-7	3-10	4-1	4-4	4-7	4-10
175.00	3-2	3-7	4-1	4-6	4-11	5-3	5-7	5-11	6-3	6-7
200.00	4-1	4-9	5-4	5-10	6-4	6-10	7-4	7-9	8-2	8-7

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-1	1-2	1-3
100.00	1-0	1-2	1-4	1-6	1-7	1-9	1-10	2-0	2-1	2-2
125.00	1-7	1-10	2-1	2-4	2-6	2-9	2-11	3-1	3-3	3-4
150.00	2-4	2-8	3-0	3-4	3-8	3-11	4-2	4-5	4-8	4-10
175.00	3-2	3-8	4-1	4-7	4-11	5-4	5-8	6-0	6-4	6-7
200.00	4-2	4-9	5-5	5-11	6-6	6-11	7-5	7-10	8-3	8-8

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SHEET
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.14

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-7	2-8	2-8	2-9	2-9	2-10	2-10	2-11	2-11	3-0
175.00	3-6	3-7	3-8	3-8	3-9	3-10	3-10	3-11	4-0	4-1
200.00	4-7	4-8	4-9	4-10	4-11	5-0	5-1	5-2	5-3	5-3
225.00	5-10	5-11	6-0	6-1	6-3	6-4	6-5	6-6	6-7	6-8
250.00	7-2	7-4	7-5	7-7	7-8	7-10	7-11	8-0	8-2	8-3
275.00	8-8	8-10	9-0	9-2	9-3	9-5	9-7	9-9	9-10	10-0
300.00	10-4	10-6	10-8	10-11	11-1	11-3	11-5	11-7	11-9	11-11
325.00	12-2	12-4	12-7	12-9	13-0	13-2	13-5	13-7	13-9	14-0
350.00	14-1	14-4	14-7	14-10	15-1	15-4	15-6	15-9	16-0	16-2
375.00	16-2	16-5	16-9	17-0	17-3	17-7	17-10	18-1	18-4	18-7

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-7	2-8	2-8	2-9	2-9	2-10	2-10	2-11	2-11	3-0
175.00	3-7	3-7	3-8	3-9	3-9	3-10	3-11	4-0	4-0	4-1
200.00	4-8	4-9	4-10	4-10	4-11	5-0	5-1	5-2	5-3	5-4
225.00	5-10	6-0	6-1	6-2	6-3	6-4	6-6	6-7	6-8	6-9
250.00	7-3	7-4	7-6	7-7	7-9	7-10	8-0	8-1	8-3	8-4
275.00	8-9	8-11	9-1	9-3	9-4	9-6	9-8	9-10	9-11	10-1
300.00	10-5	10-7	10-10	11-0	11-2	11-4	11-6	11-8	11-10	12-0
325.00	12-3	12-5	12-8	12-11	13-1	13-4	13-6	13-8	13-11	14-1
350.00	14-2	14-5	14-8	14-11	15-2	15-5	15-8	15-11	16-1	16-4
375.00	16-4	16-7	16-11	17-2	17-5	17-9	18-0	18-3	18-6	18-9

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 16 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.16
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-8	4-8	4-9	4-9	4-10	4-10	4-11	4-11	5-0	5-0
225.00	5-10	5-11	6-0	6-0	6-1	6-2	6-2	6-3	6-4	6-4
250.00	7-3	7-4	7-5	7-5	7-6	7-7	7-8	7-9	7-10	7-10
275.00	8-9	8-10	8-11	9-0	9-1	9-2	9-3	9-4	9-5	9-6
300.00	10-5	10-6	10-8	10-9	10-10	10-11	11-1	11-2	11-3	11-4
325.00	12-3	12-4	12-6	12-7	12-9	12-10	13-0	13-1	13-2	13-4
350.00	14-2	14-4	14-6	14-8	14-9	14-11	15-0	15-2	15-4	15-5
375.00	16-4	16-6	16-8	16-10	16-11	17-1	17-3	17-5	17-7	17-9
400.00	18-7	18-9	18-11	19-1	19-4	19-6	19-8	19-10	20-0	20-2
425.00	21-0	21-2	21-5	21-7	21-10	22-0	22-2	22-5	22-7	22-10
450.00	23-6	23-9	24-0	24-3	24-5	24-8	24-11	25-2	25-4	25-7
475.00	26-3	26-6	26-9	27-0	27-3	27-6	27-9	28-0	28-3	28-6
500.00	29-1	29-4	29-8	29-11	30-3	30-6	30-9	31-1	31-4	31-7

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-8	4-8	4-9	4-10	4-10	4-11	4-11	5-0	5-0	5-1
225.00	5-11	5-11	6-0	6-1	6-2	6-2	6-3	6-4	6-4	6-5
250.00	7-3	7-4	7-5	7-6	7-7	7-8	7-8	7-9	7-10	7-11
275.00	8-10	8-11	9-0	9-1	9-2	9-3	9-4	9-5	9-6	9-7
300.00	10-6	10-7	10-8	10-10	10-11	11-0	11-1	11-2	11-4	11-5
325.00	12-4	12-5	12-7	12-8	12-10	12-11	13-0	13-2	13-3	13-5
350.00	14-3	14-5	14-7	14-9	14-10	15-0	15-1	15-3	15-5	15-6
375.00	16-5	16-7	16-9	16-11	17-1	17-3	17-4	17-6	17-8	17-10
400.00	18-8	18-10	19-1	19-3	19-5	19-7	19-9	19-11	20-1	20-4
425.00	21-1	21-4	21-6	21-9	21-11	22-1	22-4	22-6	22-9	22-11
450.00	23-8	23-11	24-1	24-4	24-7	24-10	25-0	25-3	25-6	25-9
475.00	26-4	26-7	26-11	27-2	27-5	27-8	27-11	28-2	28-5	28-8
500.00	29-3	29-6	29-10	30-1	30-5	30-8	30-11	31-3	31-6	31-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>17 OF 360</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH812.17
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN G095 LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 1500 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.02	2.74	1866	2.55	2000*
25	0	0	0	0.785	2.57	1525	2.36	1665
30	0	0	0	0.785	2.7	1456	2.48	1583
40	0	0	0	0.785	2.94	1336	2.72	1444
50	0	0	0	0.785	3.17	1239	2.95	1330
60	0	0	0	0.785	3.39	1158	3.18	1237
70	0	0	0	0.785	3.6	1090	3.39	1158
80	0	0	0	0.785	3.81	1032	3.6	1091
90	0	0	0	0.785	4	982	3.8	1034
100	0	0	0	0.785	4.19	938	4	984
110	0	0	0	0.785	4.34	906	4.18	940
120	0	0	0	0.785	4.44	885	4.36	901
130	0	0	0	0.785	4.55	865	4.54	867
167	0	0	0	0.785	4.92	799	4.92	799
212	0	0	0	0.785	5.35	736	5.35	736
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
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B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 19 OF 360		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH812.19
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS											

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.02	16.37	1955	16	2000*
25	0	0	0	0.785	16.17	1524	15.76	1563
30	0	0	0	0.785	16.32	1510	15.91	1548
40	0	0	0	0.785	16.62	1482	16.22	1519
50	0	0	0	0.785	16.92	1457	16.51	1492
60	0	0	0	0.785	17.21	1432	16.81	1466
70	0	0	0	0.785	17.5	1409	17.1	1441
80	0	0	0	0.785	17.79	1386	17.38	1418
90	0	0	0	0.785	18.07	1365	17.67	1396
100	0	0	0	0.785	18.34	1345	17.94	1374
110	0	0	0	0.785	18.62	1325	18.22	1354
120	0	0	0	0.785	18.89	1306	18.49	1334
130	0	0	0	0.785	19.13	1290	18.76	1315
167	0	0	0	0.785	19.73	1251	19.72	1252
212	0	0	0	0.785	20.45	1208	20.45	1208

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

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Information Removed

OH812.21

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

SHEET
21 OF 360

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3
125.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-11
150.00	1-10	2-0	2-1	2-2	2-4	2-5	2-6	2-7	2-9	2-10
175.00	2-6	2-8	2-10	3-0	3-2	3-3	3-5	3-7	3-8	3-10
200.00	3-3	3-6	3-8	3-11	4-1	4-4	4-6	4-8	4-10	5-0
225.00	4-2	4-5	4-8	4-11	5-2	5-5	5-8	5-11	6-1	6-4
250.00	5-1	5-5	5-9	6-1	6-5	6-9	7-0	7-3	7-7	7-10

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3
125.00	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-11	2-0
150.00	1-11	2-1	2-2	2-3	2-5	2-6	2-7	2-9	2-10	2-11
175.00	2-7	2-10	2-11	3-1	3-3	3-5	3-7	3-8	3-10	3-11
200.00	3-5	3-8	3-10	4-1	4-3	4-5	4-8	4-10	5-0	5-2
225.00	4-4	4-7	4-11	5-2	5-5	5-8	5-10	6-1	6-4	6-6
250.00	5-4	5-8	6-0	6-4	6-8	7-0	7-3	7-6	7-10	8-1

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>23 OF 360</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH812.23</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 2000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-11	2-0	2-0	2-1	2-2	2-2	2-3	2-3	2-4	2-5
175.00	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-1	3-2	3-3
200.00	3-5	3-6	3-7	3-8	3-10	3-11	4-0	4-1	4-2	4-3
225.00	4-3	4-5	4-7	4-8	4-10	4-11	5-0	5-2	5-3	5-5
250.00	5-3	5-5	5-7	5-9	5-11	6-1	6-3	6-4	6-6	6-8
275.00	6-5	6-7	6-10	7-0	7-2	7-4	7-6	7-8	7-11	8-1
300.00	7-7	7-10	8-1	8-4	8-6	8-9	9-0	9-2	9-5	9-7
325.00	8-11	9-3	9-6	9-9	10-0	10-3	10-6	10-9	11-0	11-3
350.00	10-4	10-8	11-0	11-4	11-7	11-11	12-3	12-6	12-9	13-1
375.00	11-11	12-3	12-8	13-0	13-4	13-8	14-0	14-4	14-8	15-0

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-0	2-0	2-1	2-2	2-2	2-3	2-4	2-4	2-5	2-5
175.00	2-8	2-9	2-10	2-11	3-0	3-1	3-1	3-2	3-3	3-4
200.00	3-6	3-7	3-8	3-10	3-11	4-0	4-1	4-2	4-3	4-4
225.00	4-5	4-7	4-8	4-10	4-11	5-1	5-2	5-3	5-5	5-6
250.00	5-5	5-7	5-9	5-11	6-1	6-3	6-5	6-6	6-8	6-10
275.00	6-7	6-9	7-0	7-2	7-4	7-7	7-9	7-11	8-1	8-3
300.00	7-10	8-1	8-4	8-6	8-9	9-0	9-2	9-5	9-7	9-10
325.00	9-3	9-6	9-9	10-0	10-3	10-6	10-9	11-0	11-3	11-6
350.00	10-8	11-0	11-4	11-8	11-11	12-3	12-6	12-10	13-1	13-4
375.00	12-3	12-8	13-0	13-4	13-8	14-0	14-4	14-8	15-0	15-4

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

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SHEET
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.24

Stringing Sag Table Using Initial Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-5	3-6	3-7	3-7	3-8	3-9	3-9	3-10	3-11	3-11
225.00	4-4	4-5	4-6	4-7	4-8	4-9	4-9	4-10	4-11	5-0
250.00	5-4	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1	6-2
275.00	6-6	6-7	6-9	6-10	6-11	7-1	7-2	7-3	7-4	7-6
300.00	7-9	7-10	8-0	8-2	8-3	8-5	8-6	8-8	8-9	8-11
325.00	9-1	9-3	9-5	9-7	9-8	9-10	10-0	10-2	10-4	10-5
350.00	10-6	10-9	10-11	11-1	11-3	11-5	11-7	11-9	11-11	12-1
375.00	12-1	12-4	12-6	12-9	12-11	13-1	13-4	13-6	13-9	13-11
400.00	13-9	14-0	14-3	14-6	14-8	14-11	15-2	15-5	15-7	15-10
425.00	15-6	15-10	16-1	16-4	16-7	16-10	17-1	17-4	17-7	17-10
450.00	17-5	17-9	18-0	18-4	18-7	18-11	19-2	19-6	19-9	20-0
475.00	19-5	19-9	20-1	20-5	20-9	21-1	21-5	21-9	22-0	22-4
500.00	21-6	21-11	22-3	22-8	23-0	23-4	23-9	24-1	24-5	24-9

Stringing Sag Table Using Final Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-6	3-7	3-7	3-8	3-9	3-10	3-10	3-11	4-0	4-0
225.00	4-5	4-6	4-7	4-8	4-9	4-10	4-10	4-11	5-0	5-1
250.00	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3
275.00	6-7	6-9	6-10	6-11	7-1	7-2	7-3	7-5	7-6	7-7
300.00	7-11	8-0	8-2	8-3	8-5	8-6	8-8	8-10	8-11	9-0
325.00	9-3	9-5	9-7	9-9	9-10	10-0	10-2	10-4	10-6	10-7
350.00	10-9	10-11	11-1	11-3	11-5	11-8	11-10	12-0	12-2	12-4
375.00	12-4	12-6	12-9	12-11	13-2	13-4	13-7	13-9	13-11	14-2
400.00	14-0	14-3	14-6	14-9	15-0	15-2	15-5	15-8	15-10	16-1
425.00	15-10	16-1	16-4	16-8	16-11	17-2	17-5	17-8	17-11	18-2
450.00	17-9	18-1	18-4	18-8	18-11	19-3	19-6	19-10	20-1	20-4
475.00	19-9	20-1	20-5	20-9	21-1	21-5	21-9	22-1	22-5	22-8
500.00	21-11	22-4	22-8	23-0	23-5	23-9	24-1	24-6	24-10	25-2

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SHEET 25 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.25
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS					

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.02	8.67	2359	8.17	2500*
25	0	0	0	0.785	8.38	1877	7.82	2010
30	0	0	0	0.785	8.55	1839	8	1966
40	0	0	0	0.785	8.89	1769	8.34	1885
50	0	0	0	0.785	9.23	1705	8.68	1813
60	0	0	0	0.785	9.55	1648	9.01	1747
70	0	0	0	0.785	9.86	1596	9.33	1687
80	0	0	0	0.785	10.17	1548	9.64	1633
90	0	0	0	0.785	10.47	1503	9.94	1583
100	0	0	0	0.785	10.76	1463	10.24	1537
110	0	0	0	0.785	11.05	1425	10.54	1494
120	0	0	0	0.785	11.33	1390	10.82	1455
130	0	0	0	0.785	11.55	1363	11.11	1418
167	0	0	0	0.785	12.14	1298	12.1	1302
212	0	0	0	0.785	12.85	1226	12.85	1226
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>28 OF 360</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH812.28
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 2500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.02	13.35	2395	12.78	2500*
25	0	0	0	0.785	13.04	1886	12.42	1981
30	0	0	0	0.785	13.23	1860	12.6	1952
40	0	0	0	0.785	13.59	1811	12.96	1898
50	0	0	0	0.785	13.94	1766	13.32	1848
60	0	0	0	0.785	14.28	1723	13.66	1801
70	0	0	0	0.785	14.62	1684	14.01	1757
80	0	0	0	0.785	14.95	1647	14.34	1716
90	0	0	0	0.785	15.28	1612	14.67	1678
100	0	0	0	0.785	15.6	1579	15	1642
110	0	0	0	0.785	15.91	1548	15.31	1608
120	0	0	0	0.785	16.22	1519	15.63	1576
130	0	0	0	0.785	16.52	1491	15.94	1546
167	0	0	0	0.785	17.21	1432	17.04	1446
212	0	0	0	0.785	18.01	1369	18.01	1369
* Design Condition								

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.29

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11	1-0
100.00	0-7	0-8	0-10	1-0	1-2	1-3	1-5	1-7	1-8	1-10
125.00	0-10	1-1	1-4	1-6	1-9	2-0	2-3	2-5	2-7	2-10
150.00	1-3	1-6	1-10	2-3	2-7	2-11	3-2	3-6	3-9	4-0
175.00	1-8	2-1	2-6	3-0	3-6	3-11	4-4	4-9	5-2	5-6
200.00	2-3	2-9	3-4	3-11	4-7	5-2	5-8	6-3	6-9	7-2

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1
100.00	0-7	0-9	0-11	1-1	1-3	1-4	1-6	1-8	1-9	1-10
125.00	0-11	1-2	1-5	1-8	1-11	2-2	2-4	2-7	2-9	2-11
150.00	1-4	1-8	2-0	2-5	2-9	3-1	3-5	3-8	3-11	4-3
175.00	1-9	2-3	2-9	3-3	3-9	4-2	4-7	5-0	5-5	5-9
200.00	2-4	2-11	3-7	4-3	4-11	5-6	6-0	6-7	7-0	7-6

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SHEET 30 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.30
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 2500 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-6	1-7	1-8	1-8	1-9	1-10	1-11	1-11	2-0	2-1
175.00	2-0	2-1	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10
200.00	2-8	2-9	2-11	3-0	3-2	3-3	3-4	3-5	3-7	3-8
225.00	3-4	3-6	3-8	3-10	4-0	4-1	4-3	4-4	4-6	4-8
250.00	4-2	4-4	4-6	4-9	4-11	5-1	5-3	5-5	5-7	5-9
275.00	5-0	5-3	5-6	5-8	5-11	6-2	6-4	6-6	6-9	6-11
300.00	6-0	6-3	6-6	6-9	7-0	7-4	7-6	7-9	8-0	8-3
325.00	7-0	7-4	7-8	8-0	8-3	8-7	8-10	9-2	9-5	9-8
350.00	8-1	8-6	8-10	9-3	9-7	9-11	10-3	10-7	10-11	11-3
375.00	9-4	9-9	10-2	10-7	11-0	11-5	11-9	12-2	12-6	12-11

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-7	1-8	1-9	1-9	1-10	1-11	2-0	2-0	2-1	2-2
175.00	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
200.00	2-10	2-11	3-1	3-2	3-3	3-5	3-6	3-7	3-9	3-10
225.00	3-7	3-9	3-10	4-0	4-2	4-4	4-5	4-7	4-8	4-10
250.00	4-5	4-7	4-9	5-0	5-2	5-4	5-6	5-8	5-10	6-0
275.00	5-4	5-7	5-9	6-0	6-3	6-5	6-8	6-10	7-0	7-3
300.00	6-4	6-7	6-11	7-2	7-5	7-8	7-11	8-2	8-4	8-7
325.00	7-5	7-9	8-1	8-5	8-8	9-0	9-3	9-7	9-10	10-1
350.00	8-8	9-0	9-5	9-9	10-1	10-5	10-9	11-1	11-5	11-8
375.00	9-11	10-4	10-9	11-2	11-7	12-0	12-4	12-9	13-1	13-5

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SHEET
32 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.32

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-9	2-9	2-10	2-11	3-0	3-1	3-2	3-2	3-3	3-4
225.00	3-5	3-6	3-7	3-8	3-9	3-11	4-0	4-1	4-2	4-2
250.00	4-3	4-4	4-6	4-7	4-8	4-9	4-11	5-0	5-1	5-2
275.00	5-1	5-3	5-5	5-6	5-8	5-10	5-11	6-1	6-2	6-3
300.00	6-1	6-3	6-5	6-7	6-9	6-11	7-1	7-2	7-4	7-6
325.00	7-2	7-4	7-7	7-9	7-11	8-1	8-3	8-5	8-7	8-9
350.00	8-4	8-6	8-9	9-0	9-2	9-5	9-7	9-9	10-0	10-2
375.00	9-6	9-9	10-1	10-4	10-6	10-9	11-0	11-3	11-6	11-8
400.00	10-10	11-2	11-5	11-9	12-0	12-3	12-6	12-10	13-1	13-4
425.00	12-3	12-7	12-11	13-3	13-6	13-10	14-2	14-5	14-9	15-0
450.00	13-9	14-1	14-6	14-10	15-2	15-6	15-10	16-2	16-6	16-10
475.00	15-4	15-9	16-1	16-6	16-11	17-4	17-8	18-1	18-5	18-9
500.00	16-11	17-5	17-10	18-4	18-9	19-2	19-7	20-0	20-5	20-10

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-4	3-4	3-5
225.00	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4
250.00	4-5	4-6	4-8	4-9	4-10	4-11	5-1	5-2	5-3	5-4
275.00	5-4	5-6	5-7	5-9	5-10	6-0	6-1	6-3	6-4	6-6
300.00	6-4	6-6	6-8	6-10	7-0	7-2	7-3	7-5	7-7	7-9
325.00	7-5	7-8	7-10	8-0	8-2	8-5	8-7	8-9	8-11	9-1
350.00	8-8	8-10	9-1	9-4	9-6	9-9	9-11	10-1	10-4	10-6
375.00	9-11	10-2	10-5	10-8	10-11	11-2	11-5	11-7	11-10	12-1
400.00	11-3	11-7	11-10	12-2	12-5	12-8	13-0	13-3	13-6	13-9
425.00	12-9	13-1	13-5	13-9	14-0	14-4	14-8	14-11	15-3	15-6
450.00	14-4	14-8	15-0	15-5	15-9	16-1	16-5	16-9	17-1	17-5
475.00	15-11	16-4	16-9	17-2	17-6	17-11	18-3	18-8	19-0	19-5
500.00	17-8	18-1	18-7	19-0	19-5	19-10	20-3	20-8	21-1	21-6

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SHEET 33 OF 360		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH812.33
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 2500 LBS									

* Design Condition

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>35 OF 360</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH812.35</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 3000 LBS</p> </div>						

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.02	7.43	2748	6.81	3000*
25	0	0	0	0.785	7.07	2224	6.35	2476
30	0	0	0	0.785	7.26	2165	6.54	2405
40	0	0	0	0.785	7.63	2060	6.91	2275
50	0	0	0	0.785	8	1966	7.28	2161
60	0	0	0	0.785	8.35	1883	7.64	2059
70	0	0	0	0.785	8.7	1808	7.99	1968
80	0	0	0	0.785	9.03	1741	8.33	1887
90	0	0	0	0.785	9.36	1681	8.67	1814
100	0	0	0	0.785	9.68	1625	9	1748
110	0	0	0	0.785	9.99	1575	9.32	1688
120	0	0	0	0.785	10.3	1529	9.63	1633
130	0	0	0	0.785	10.55	1492	9.94	1583
167	0	0	0	0.785	11.17	1410	11.02	1429
212	0	0	0	0.785	11.92	1322	11.92	1322

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 36 OF 360		Indicates Latest Revision Completely Revised X New Page Information Removed									OH812.36
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 3000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.02	11.4	2803	10.64	3000*
25	0	0	0	0.785	11	2235	10.14	2423
30	0	0	0	0.785	11.2	2194	10.35	2375
40	0	0	0	0.785	11.6	2119	10.75	2285
50	0	0	0	0.785	12	2049	11.15	2204
60	0	0	0	0.785	12.38	1986	11.54	2130
70	0	0	0	0.785	12.76	1928	11.93	2062
80	0	0	0	0.785	13.13	1874	12.3	1999
90	0	0	0	0.785	13.49	1824	12.67	1941
100	0	0	0	0.785	13.84	1778	13.03	1887
110	0	0	0	0.785	14.19	1735	13.39	1838
120	0	0	0	0.785	14.53	1694	13.74	1791
130	0	0	0	0.785	14.86	1657	14.08	1748
167	0	0	0	0.785	15.63	1576	15.29	1610
212	0	0	0	0.785	16.47	1496	16.47	1496
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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Indicates Latest Revision	Completely Revised	X	New Page	Information Removed
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.37

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11
100.00	0-5	0-7	0-8	0-10	1-0	1-2	1-3	1-5	1-7	1-8
125.00	0-8	0-10	1-1	1-3	1-6	1-9	2-0	2-3	2-5	2-7
150.00	1-0	1-3	1-6	1-10	2-2	2-7	2-11	3-2	3-6	3-9
175.00	1-5	1-8	2-1	2-6	3-0	3-6	3-11	4-4	4-9	5-2
200.00	1-10	2-2	2-9	3-4	3-11	4-7	5-2	5-8	6-3	6-9

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0
100.00	0-6	0-7	0-9	0-11	1-1	1-3	1-5	1-6	1-8	1-9
125.00	0-9	0-11	1-2	1-6	1-9	2-0	2-2	2-5	2-7	2-9
150.00	1-1	1-4	1-9	2-1	2-6	2-10	3-2	3-6	3-9	4-0
175.00	1-5	1-10	2-4	2-10	3-4	3-10	4-4	4-9	5-1	5-6
200.00	1-11	2-5	3-1	3-9	4-5	5-0	5-7	6-2	6-8	7-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 38 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.38
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 3000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-3	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-9	1-10
175.00	1-8	1-9	1-10	1-11	2-1	2-2	2-3	2-4	2-5	2-6
200.00	2-2	2-3	2-5	2-7	2-8	2-10	2-11	3-1	3-2	3-3
225.00	2-9	2-11	3-1	3-3	3-5	3-7	3-8	3-10	4-0	4-2
250.00	3-4	3-7	3-9	4-0	4-2	4-5	4-7	4-9	4-11	5-1
275.00	4-1	4-4	4-7	4-10	5-1	5-4	5-6	5-9	6-0	6-2
300.00	4-10	5-2	5-5	5-9	6-0	6-4	6-7	6-10	7-1	7-4
325.00	5-8	6-1	6-5	6-9	7-1	7-5	7-9	8-0	8-4	8-8
350.00	6-7	7-0	7-5	7-10	8-3	8-7	9-0	9-4	9-8	10-0
375.00	7-7	8-1	8-6	9-0	9-5	9-10	10-4	10-8	11-1	11-6

Stringing Sag Table Using Final Sag							Ruling Span:		300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-4	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-11	1-11
175.00	1-10	1-11	2-0	2-2	2-3	2-4	2-5	2-6	2-7	2-8
200.00	2-5	2-6	2-8	2-9	2-11	3-0	3-2	3-3	3-4	3-6
225.00	3-0	3-2	3-4	3-6	3-8	3-10	4-0	4-1	4-3	4-5
250.00	3-9	3-11	4-2	4-4	4-6	4-9	4-11	5-1	5-3	5-5
275.00	4-6	4-9	5-0	5-3	5-6	5-9	5-11	6-2	6-4	6-7
300.00	5-4	5-8	6-0	6-3	6-6	6-10	7-1	7-4	7-7	7-10
325.00	6-3	6-8	7-0	7-4	7-8	8-0	8-4	8-7	8-11	9-2
350.00	7-3	7-8	8-1	8-6	8-11	9-3	9-8	10-0	10-4	10-8
375.00	8-4	8-10	9-4	9-9	10-3	10-8	11-1	11-5	11-10	12-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 40 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.40
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 3000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-3	2-4	2-5	2-6	2-7	2-7	2-8	2-9	2-10	2-11
225.00	2-10	2-11	3-0	3-1	3-3	3-4	3-5	3-6	3-7	3-8
250.00	3-6	3-7	3-9	3-10	4-0	4-1	4-3	4-4	4-5	4-7
275.00	4-2	4-4	4-6	4-8	4-10	5-0	5-1	5-3	5-5	5-6
300.00	5-0	5-2	5-4	5-7	5-9	5-11	6-1	6-3	6-5	6-7
325.00	5-10	6-1	6-4	6-6	6-9	6-11	7-2	7-4	7-6	7-8
350.00	6-10	7-1	7-4	7-7	7-10	8-0	8-3	8-6	8-9	8-11
375.00	7-10	8-1	8-5	8-8	8-11	9-3	9-6	9-9	10-0	10-3
400.00	8-11	9-3	9-7	9-10	10-2	10-6	10-10	11-1	11-5	11-8
425.00	10-0	10-5	10-9	11-2	11-6	11-10	12-2	12-6	12-10	13-2
450.00	11-3	11-8	12-1	12-6	12-11	13-3	13-8	14-1	14-5	14-9
475.00	12-6	13-0	13-6	13-11	14-4	14-10	15-3	15-8	16-1	16-6
500.00	13-11	14-5	14-11	15-5	15-11	16-5	16-11	17-4	17-10	18-3

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-5	2-6	2-7	2-7	2-8	2-9	2-10	2-11	3-0	3-1
225.00	3-0	3-1	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-11
250.00	3-9	3-10	4-0	4-1	4-3	4-4	4-5	4-7	4-8	4-9
275.00	4-6	4-8	4-10	4-11	5-1	5-3	5-5	5-6	5-8	5-9
300.00	5-4	5-6	5-9	5-11	6-1	6-3	6-5	6-7	6-9	6-11
325.00	6-3	6-6	6-9	6-11	7-2	7-4	7-6	7-9	7-11	8-1
350.00	7-3	7-6	7-9	8-0	8-3	8-6	8-9	8-11	9-2	9-5
375.00	8-4	8-8	8-11	9-3	9-6	9-9	10-0	10-3	10-6	10-9
400.00	9-6	9-10	10-2	10-6	10-10	11-1	11-5	11-8	12-0	12-3
425.00	10-9	11-1	11-6	11-10	12-2	12-7	12-11	13-2	13-6	13-10
450.00	12-1	12-6	12-11	13-3	13-8	14-1	14-5	14-10	15-2	15-6
475.00	13-5	13-11	14-4	14-10	15-3	15-8	16-1	16-6	16-11	17-4
500.00	14-11	15-5	15-11	16-5	16-11	17-4	17-10	18-3	18-9	19-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 41 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.41
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 3000 LBS									

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>45 OF 360</div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH812.45	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-6	2-6	2-6	2-7	2-7	2-7	2-7	2-8	2-8	2-8
125.00	3-11	3-11	4-0	4-0	4-0	4-1	4-1	4-1	4-2	4-2
150.00	5-7	5-8	5-9	5-9	5-10	5-10	5-11	5-11	6-0	6-0
175.00	7-8	7-9	7-10	7-10	7-11	8-0	8-0	8-1	8-2	8-2
200.00	10-0	10-1	10-2	10-3	10-4	10-5	10-6	10-7	10-8	10-8
225.00	12-8	12-10	12-11	13-0	13-1	13-3	13-4	13-5	13-6	13-6
250.00	15-8	15-10	15-11	16-1	16-2	16-4	16-5	16-7	16-8	16-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-6	2-6	2-7	2-7	2-7	2-7	2-7	2-8	2-8	2-8
125.00	3-11	3-11	4-0	4-0	4-0	4-1	4-1	4-1	4-2	4-2
150.00	5-8	5-8	5-9	5-9	5-10	5-10	5-11	5-11	6-0	6-0
175.00	7-8	7-9	7-10	7-10	7-11	8-0	8-1	8-1	8-2	8-2
200.00	10-0	10-1	10-2	10-3	10-4	10-5	10-6	10-7	10-8	10-8
225.00	12-8	12-10	12-11	13-0	13-2	13-3	13-4	13-5	13-6	13-6
250.00	15-8	15-10	16-0	16-1	16-3	16-4	16-6	16-7	16-8	16-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>47 OF 360</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH812.47
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-8	5-8	5-8	5-9	5-9	5-9	5-9	5-10	5-10	5-10
175.00	7-8	7-9	7-9	7-9	7-10	7-10	7-10	7-11	7-11	7-11
200.00	10-1	10-1	10-2	10-2	10-3	10-3	10-3	10-4	10-4	10-4
225.00	12-9	12-10	12-10	12-11	12-11	13-0	13-0	13-1	13-1	13-2
250.00	15-9	15-10	15-10	15-11	16-0	16-1	16-1	16-2	16-2	16-3
275.00	19-1	19-2	19-3	19-4	19-4	19-5	19-6	19-7	19-7	19-8
300.00	22-9	22-10	22-11	23-0	23-1	23-2	23-3	23-4	23-4	23-5
325.00	26-9	26-10	26-11	27-0	27-1	27-3	27-4	27-5	27-6	27-6
350.00	31-0	31-2	31-3	31-5	31-6	31-7	31-9	31-10	31-11	32-0
375.00	35-8	35-10	35-11	36-1	36-3	36-4	36-6	36-7	36-8	36-9

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-8	5-8	5-8	5-9	5-9	5-9	5-9	5-10	5-10	5-10
175.00	7-8	7-9	7-9	7-9	7-10	7-10	7-10	7-11	7-11	7-11
200.00	10-1	10-1	10-2	10-2	10-3	10-3	10-3	10-4	10-4	10-4
225.00	12-9	12-10	12-10	12-11	12-11	13-0	13-0	13-1	13-1	13-2
250.00	15-9	15-10	15-11	15-11	16-0	16-1	16-1	16-2	16-2	16-3
275.00	19-1	19-2	19-3	19-4	19-4	19-5	19-6	19-7	19-7	19-8
300.00	22-9	22-10	22-11	23-0	23-1	23-2	23-3	23-4	23-4	23-5
325.00	26-9	26-10	26-11	27-0	27-2	27-3	27-4	27-5	27-6	27-6
350.00	31-1	31-2	31-3	31-5	31-6	31-7	31-9	31-10	31-11	32-0
375.00	35-8	35-10	36-0	36-1	36-3	36-4	36-6	36-7	36-8	36-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>48 OF 360</h2> </div>		Indicates Latest Revision		Completely Revised		New Page		Information Removed		OH812.48	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.969	42.2	1500	42.2	1500*
0	0	0	0	0.785	42	601	41.97	601
30	0	0	0	0.785	42.41	595	42.38	595
40	0	0	0	0.785	42.53	594	42.51	594
50	0	0	0	0.785	42.66	592	42.63	592
60	0	0	0	0.785	42.78	590	42.75	591
70	0	0	0	0.785	42.9	589	42.88	589
80	0	0	0	0.785	43.03	587	43	587
90	0	0	0	0.785	43.15	585	43.12	586
100	0	0	0	0.785	43.27	584	43.24	584
110	0	0	0	0.785	43.35	583	43.35	583
120	0	0	0	0.785	43.43	582	43.43	582
130	0	0	0	0.785	43.51	581	43.51	581
167	0	0	0	0.785	43.8	577	43.8	577
212	0	0	0	0.785	44.15	573	44.15	573

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

Completely Revised

	X
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Information Removed

DESIGN TABLES: 500' RULING SPAN G095 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.53

SHEET
53 OF 360

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-8	1-8	1-9	1-9	1-9	1-10	1-10	1-10	1-11	1-11
125.00	2-7	2-8	2-8	2-9	2-9	2-10	2-10	2-11	2-11	3-0
150.00	3-9	3-10	3-10	3-11	4-0	4-1	4-2	4-2	4-3	4-3
175.00	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10
200.00	6-8	6-9	6-11	7-0	7-1	7-3	7-4	7-5	7-7	7-8
225.00	8-5	8-7	8-9	8-10	9-0	9-2	9-4	9-5	9-7	9-8
250.00	10-5	10-7	10-9	10-11	11-2	11-4	11-6	11-8	11-10	11-11

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-8	1-8	1-9	1-9	1-9	1-10	1-10	1-10	1-11	1-11
125.00	2-7	2-8	2-8	2-9	2-9	2-10	2-11	2-11	2-11	3-0
150.00	3-9	3-10	3-11	3-11	4-0	4-1	4-2	4-2	4-3	4-3
175.00	5-1	5-2	5-3	5-5	5-6	5-7	5-8	5-9	5-9	5-10
200.00	6-8	6-10	6-11	7-0	7-2	7-3	7-4	7-6	7-7	7-8
225.00	8-5	8-7	8-9	8-11	9-1	9-2	9-4	9-6	9-7	9-8
250.00	10-5	10-7	10-10	11-0	11-2	11-4	11-6	11-8	11-10	11-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 55 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.55
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span:		300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-9	3-9	3-10	3-10	3-10	3-11	3-11	3-11	4-0	4-0
175.00	5-1	5-2	5-2	5-2	5-3	5-3	5-4	5-4	5-5	5-5
200.00	6-8	6-8	6-9	6-10	6-10	6-11	7-0	7-0	7-1	7-1
225.00	8-5	8-6	8-7	8-7	8-8	8-9	8-10	8-11	8-11	9-0
250.00	10-5	10-6	10-7	10-8	10-9	10-10	10-11	11-0	11-1	11-1
275.00	12-7	12-8	12-9	12-11	13-0	13-1	13-2	13-3	13-5	13-5
300.00	15-0	15-1	15-3	15-4	15-6	15-7	15-8	15-10	15-11	16-0
325.00	17-7	17-9	17-10	18-0	18-2	18-4	18-5	18-7	18-9	18-10
350.00	20-5	20-7	20-9	20-11	21-1	21-3	21-5	21-7	21-9	21-10
375.00	23-5	23-8	23-10	24-0	24-2	24-5	24-7	24-9	24-11	25-1

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-9	3-9	3-10	3-10	3-10	3-11	3-11	3-11	4-0	4-0
175.00	5-1	5-2	5-2	5-3	5-3	5-4	5-4	5-5	5-5	5-5
200.00	6-8	6-8	6-9	6-10	6-10	6-11	7-0	7-0	7-1	7-1
225.00	8-5	8-6	8-7	8-8	8-8	8-9	8-10	8-11	8-11	9-0
250.00	10-5	10-6	10-7	10-8	10-9	10-10	10-11	11-0	11-1	11-1
275.00	12-7	12-8	12-10	12-11	13-0	13-1	13-2	13-4	13-5	13-5
300.00	15-0	15-1	15-3	15-4	15-6	15-7	15-9	15-10	15-11	16-0
325.00	17-7	17-9	17-11	18-1	18-2	18-4	18-6	18-7	18-9	18-10
350.00	20-5	20-7	20-9	20-11	21-1	21-3	21-5	21-7	21-9	21-10
375.00	23-6	23-8	23-10	24-1	24-3	24-5	24-7	24-10	25-0	25-1

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-8	6-8	6-9	6-9	6-9	6-10	6-10	6-11	6-11	6-11
225.00	8-5	8-6	8-6	8-7	8-7	8-8	8-8	8-9	8-9	8-9
250.00	10-5	10-6	10-6	10-7	10-7	10-8	10-9	10-9	10-10	10-10
275.00	12-7	12-8	12-9	12-10	12-10	12-11	13-0	13-0	13-1	13-2
300.00	15-0	15-1	15-2	15-3	15-4	15-4	15-5	15-6	15-7	15-8
325.00	17-8	17-9	17-10	17-11	18-0	18-1	18-2	18-3	18-3	18-4
350.00	20-6	20-7	20-8	20-9	20-10	20-11	21-0	21-2	21-3	21-4
375.00	23-6	23-8	23-9	23-10	23-11	24-1	24-2	24-3	24-5	24-6
400.00	26-9	26-11	27-0	27-2	27-3	27-5	27-6	27-8	27-9	27-10
425.00	30-3	30-5	30-7	30-8	30-10	30-11	31-1	31-3	31-4	31-6
450.00	33-11	34-1	34-3	34-5	34-7	34-9	34-11	35-1	35-2	35-4
475.00	37-10	38-0	38-3	38-5	38-7	38-9	38-11	39-1	39-3	39-5
500.00	42-0	42-2	42-5	42-7	42-9	43-0	43-2	43-4	43-6	43-8

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-8	6-8	6-9	6-9	6-10	6-10	6-10	6-11	6-11	6-11
225.00	8-5	8-6	8-6	8-7	8-7	8-8	8-8	8-9	8-9	8-9
250.00	10-5	10-6	10-6	10-7	10-8	10-8	10-9	10-9	10-10	10-10
275.00	12-8	12-8	12-9	12-10	12-10	12-11	13-0	13-0	13-1	13-2
300.00	15-0	15-1	15-2	15-3	15-4	15-5	15-5	15-6	15-7	15-8
325.00	17-8	17-9	17-10	17-11	18-0	18-1	18-2	18-3	18-4	18-4
350.00	20-6	20-7	20-8	20-9	20-10	21-0	21-1	21-2	21-3	21-4
375.00	23-7	23-8	23-9	23-10	24-0	24-1	24-2	24-4	24-5	24-6
400.00	26-10	26-11	27-1	27-2	27-4	27-5	27-7	27-8	27-9	27-10
425.00	30-3	30-5	30-7	30-8	30-10	31-0	31-1	31-3	31-5	31-6
450.00	34-0	34-2	34-4	34-5	34-7	34-9	34-11	35-1	35-3	35-4
475.00	37-11	38-1	38-3	38-5	38-7	38-9	38-11	39-1	39-3	39-5
500.00	42-0	42-3	42-5	42-7	42-10	43-0	43-2	43-5	43-7	43-8

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Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.969	4.94	1998	4.94	2000*
0	0	0	0	0.785	4.63	850	4.57	860
30	0	0	0	0.785	5.13	768	5.08	774
40	0	0	0	0.785	5.28	745	5.24	752
50	0	0	0	0.785	5.43	725	5.39	731
60	0	0	0	0.785	5.58	706	5.53	712
70	0	0	0	0.785	5.72	688	5.67	694
80	0	0	0	0.785	5.86	672	5.81	677
90	0	0	0	0.785	6	657	5.95	662
100	0	0	0	0.785	6.13	643	6.08	648
110	0	0	0	0.785	6.22	634	6.21	634
120	0	0	0	0.785	6.3	625	6.3	625
130	0	0	0	0.785	6.38	618	6.38	618
167	0	0	0	0.785	6.67	591	6.67	591
212	0	0	0	0.785	7.01	562	7.01	562
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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<div>SHEET</div> <div>59 OF 360</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH812.59
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.969	19.91	1998	19.89	2000*
0	0	0	0	0.785	19.6	809	19.52	812
30	0	0	0	0.785	20.11	789	20.04	791
40	0	0	0	0.785	20.27	783	20.2	785
50	0	0	0	0.785	20.43	776	20.37	779
60	0	0	0	0.785	20.59	770	20.53	773
70	0	0	0	0.785	20.75	765	20.69	767
80	0	0	0	0.785	20.91	759	20.84	761
90	0	0	0	0.785	21.07	753	21	756
100	0	0	0	0.785	21.23	748	21.16	750
110	0	0	0	0.785	21.37	743	21.31	745
120	0	0	0	0.785	21.47	740	21.47	740
130	0	0	0	0.785	21.57	736	21.57	736
167	0	0	0	0.785	21.93	724	21.93	724
212	0	0	0	0.785	22.37	711	22.37	711
* Design Condition								

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SHEET 60 OF 360		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH812.60
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS											

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.969	31.28	1999	31.25	2000*
0	0	0	0	0.785	30.97	804	30.88	807
30	0	0	0	0.785	31.47	792	31.41	793
40	0	0	0	0.785	31.64	788	31.57	789
50	0	0	0	0.785	31.8	784	31.73	785
60	0	0	0	0.785	31.97	780	31.9	782
70	0	0	0	0.785	32.13	776	32.06	778
80	0	0	0	0.785	32.29	772	32.22	774
90	0	0	0	0.785	32.45	769	32.38	770
100	0	0	0	0.785	32.61	765	32.54	767
110	0	0	0	0.785	32.77	761	32.7	763
120	0	0	0	0.785	32.87	759	32.86	760
130	0	0	0	0.785	32.98	757	32.98	757
167	0	0	0	0.785	33.35	749	33.35	749
212	0	0	0	0.785	33.8	739	33.8	739
* Design Condition								

* Design Condition

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New Page

Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.61

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-2	1-3
100.00	1-3	1-4	1-6	1-7	1-9	1-10	1-11	2-0	2-1	2-2
125.00	1-11	2-1	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-5
150.00	2-9	3-1	3-4	3-7	3-11	4-2	4-4	4-7	4-9	4-11
175.00	3-9	4-2	4-7	4-11	5-3	5-7	5-11	6-3	6-6	6-8
200.00	4-11	5-5	6-0	6-5	6-11	7-4	7-9	8-2	8-6	8-9

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-9	0-10	0-11	1-0	1-1	1-1	1-2	1-2	1-3
100.00	1-3	1-5	1-6	1-8	1-9	1-10	2-0	2-1	2-1	2-2
125.00	2-0	2-2	2-5	2-7	2-9	2-11	3-1	3-3	3-4	3-5
150.00	2-10	3-2	3-5	3-8	4-0	4-2	4-5	4-8	4-9	4-11
175.00	3-10	4-3	4-8	5-1	5-5	5-9	6-1	6-4	6-6	6-8
200.00	5-0	5-7	6-1	6-7	7-1	7-6	7-11	8-3	8-6	8-9

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	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-3	1-3	1-4	1-4	1-5	1-5	1-5	1-6	1-6	1-7
125.00	1-11	2-0	2-1	2-1	2-2	2-3	2-3	2-4	2-4	2-5
150.00	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6
175.00	3-9	3-11	4-0	4-1	4-3	4-4	4-5	4-7	4-8	4-9
200.00	4-11	5-1	5-3	5-5	5-6	5-8	5-10	5-11	6-1	6-3
225.00	6-3	6-5	6-8	6-10	7-0	7-2	7-4	7-6	7-8	7-10
250.00	7-8	7-11	8-2	8-5	8-8	8-10	9-1	9-4	9-6	9-9

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-6	1-7
125.00	1-11	2-0	2-1	2-1	2-2	2-3	2-3	2-4	2-5	2-5
150.00	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-4	3-5	3-6
175.00	3-10	3-11	4-1	4-2	4-3	4-5	4-6	4-7	4-8	4-9
200.00	5-0	5-2	5-3	5-5	5-7	5-9	5-10	6-0	6-2	6-3
225.00	6-3	6-6	6-8	6-11	7-1	7-3	7-5	7-7	7-9	7-10
250.00	7-9	8-0	8-3	8-6	8-9	8-11	9-2	9-5	9-7	9-9

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SHEET 63 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.63
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-9	2-10	2-10	2-11	2-11	3-0	3-0	3-1	3-1	3-1
175.00	3-9	3-10	3-11	3-11	4-0	4-1	4-1	4-2	4-2	4-3
200.00	4-11	5-0	5-1	5-2	5-3	5-3	5-4	5-5	5-6	5-7
225.00	6-3	6-4	6-5	6-6	6-7	6-8	6-9	6-10	6-11	7-0
250.00	7-9	7-10	7-11	8-1	8-2	8-3	8-5	8-6	8-7	8-8
275.00	9-4	9-6	9-7	9-9	9-11	10-0	10-2	10-3	10-5	10-6
300.00	11-2	11-3	11-5	11-7	11-9	11-11	12-1	12-3	12-4	12-6
325.00	13-1	13-3	13-5	13-8	13-10	14-0	14-2	14-4	14-6	14-8
350.00	15-2	15-5	15-7	15-10	16-0	16-3	16-5	16-8	16-10	17-1
375.00	17-5	17-8	17-11	18-2	18-5	18-8	18-11	19-1	19-4	19-7

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-10	2-10	2-10	2-11	2-11	3-0	3-0	3-1	3-1	3-2
175.00	3-10	3-10	3-11	4-0	4-0	4-1	4-1	4-2	4-3	4-3
200.00	5-0	5-0	5-1	5-2	5-3	5-4	5-5	5-5	5-6	5-7
225.00	6-3	6-5	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-1
250.00	7-9	7-11	8-0	8-1	8-2	8-4	8-5	8-6	8-8	8-9
275.00	9-5	9-6	9-8	9-10	9-11	10-1	10-2	10-4	10-5	10-7
300.00	11-2	11-4	11-6	11-8	11-10	12-0	12-2	12-3	12-5	12-7
325.00	13-2	13-4	13-6	13-8	13-11	14-1	14-3	14-5	14-7	14-9
350.00	15-3	15-5	15-8	15-11	16-1	16-4	16-6	16-9	16-11	17-1
375.00	17-6	17-9	18-0	18-3	18-6	18-9	19-0	19-3	19-5	19-8

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SHEET 64 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.64
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-11	5-0	5-0	5-1	5-1	5-2	5-2	5-3	5-3	5-4
225.00	6-3	6-4	6-5	6-5	6-6	6-6	6-7	6-8	6-8	6-9
250.00	7-9	7-10	7-11	7-11	8-0	8-1	8-1	8-2	8-3	8-4
275.00	9-5	9-5	9-6	9-7	9-8	9-9	9-10	9-11	10-0	10-1
300.00	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-10	11-11	12-0
325.00	13-1	13-3	13-4	13-5	13-6	13-8	13-9	13-10	13-11	14-1
350.00	15-2	15-4	15-5	15-7	15-8	15-10	15-11	16-1	16-2	16-4
375.00	17-6	17-7	17-9	17-11	18-0	18-2	18-4	18-5	18-7	18-9
400.00	19-11	20-1	20-2	20-4	20-6	20-8	20-10	21-0	21-2	21-4
425.00	22-5	22-8	22-10	23-0	23-2	23-4	23-7	23-9	23-11	24-1
450.00	25-2	25-5	25-7	25-10	26-0	26-2	26-5	26-7	26-10	27-0
475.00	28-1	28-4	28-6	28-9	29-0	29-3	29-5	29-8	29-11	30-1
500.00	31-1	31-4	31-8	31-11	32-2	32-5	32-8	32-11	33-2	33-4


Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-0	5-0	5-1	5-1	5-2	5-2	5-3	5-3	5-4	5-4
225.00	6-4	6-4	6-5	6-5	6-6	6-7	6-7	6-8	6-8	6-9
250.00	7-9	7-10	7-11	8-0	8-0	8-1	8-2	8-3	8-3	8-4
275.00	9-5	9-6	9-7	9-8	9-9	9-9	9-10	9-11	10-0	10-1
300.00	11-2	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11	12-0
325.00	13-2	13-3	13-4	13-6	13-7	13-8	13-9	13-11	14-0	14-1
350.00	15-3	15-5	15-6	15-8	15-9	15-11	16-0	16-1	16-3	16-4
375.00	17-6	17-8	17-10	17-11	18-1	18-3	18-4	18-6	18-8	18-9
400.00	19-11	20-1	20-3	20-5	20-7	20-9	20-11	21-1	21-3	21-4
425.00	22-6	22-8	22-11	23-1	23-3	23-5	23-7	23-10	24-0	24-2
450.00	25-3	25-6	25-8	25-11	26-1	26-4	26-6	26-8	26-11	27-1
475.00	28-2	28-5	28-7	28-10	29-1	29-4	29-6	29-9	30-0	30-2
500.00	31-3	31-6	31-9	32-0	32-3	32-6	32-9	33-0	33-3	33-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>65 OF 360</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH812.65
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-10	7-10	7-11	7-11	8-0	8-0	8-0	8-1	8-1	8-2
275.00	9-5	9-6	9-6	9-7	9-8	9-8	9-9	9-9	9-10	9-10
300.00	11-3	11-4	11-4	11-5	11-6	11-6	11-7	11-8	11-8	11-9
325.00	13-2	13-3	13-4	13-5	13-6	13-6	13-7	13-8	13-9	13-10
350.00	15-4	15-5	15-6	15-6	15-7	15-8	15-9	15-10	15-11	16-0
375.00	17-7	17-8	17-9	17-10	17-11	18-0	18-1	18-3	18-4	18-5
400.00	20-0	20-1	20-3	20-4	20-5	20-6	20-8	20-9	20-10	20-11
425.00	22-7	22-8	22-10	22-11	23-1	23-2	23-4	23-5	23-6	23-8
450.00	25-4	25-6	25-7	25-9	25-10	26-0	26-2	26-3	26-5	26-6
475.00	28-3	28-5	28-6	28-8	28-10	29-0	29-2	29-3	29-5	29-7
500.00	31-4	31-6	31-8	31-10	32-0	32-2	32-4	32-5	32-7	32-9
525.00	34-6	34-9	34-11	35-1	35-3	35-5	35-7	35-10	36-0	36-2
550.00	37-11	38-1	38-4	38-6	38-9	38-11	39-1	39-4	39-6	39-8
575.00	41-6	41-8	41-11	42-2	42-4	42-7	42-9	43-0	43-3	43-5
600.00	45-2	45-5	45-8	45-11	46-2	46-5	46-7	46-10	47-1	47-4
625.00	49-1	49-4	49-7	49-10	50-1	50-4	50-7	50-10	51-1	51-4

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>66 OF 360</p> </div>	Indicates Latest Revision	Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH812.66</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 2000 LBS</p> </div>					

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.969	3.97	2485	3.94	2500*
0	0	0	0	0.785	3.51	1120	3.42	1148
30	0	0	0	0.785	4.11	957	4.02	978
40	0	0	0	0.785	4.29	916	4.2	935
50	0	0	0	0.785	4.47	879	4.38	897
60	0	0	0	0.785	4.65	847	4.56	863
70	0	0	0	0.785	4.81	817	4.72	833
80	0	0	0	0.785	4.98	791	4.89	805
90	0	0	0	0.785	5.13	766	5.05	780
100	0	0	0	0.785	5.29	744	5.2	757
110	0	0	0	0.785	5.4	729	5.35	736
120	0	0	0	0.785	5.49	717	5.49	717
130	0	0	0	0.785	5.58	705	5.58	705
167	0	0	0	0.785	5.91	667	5.91	667
212	0	0	0	0.785	6.28	627	6.28	627
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 67 OF 360		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed			OH812.67
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2500 LBS										

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.969	15.91	2491	15.85	2500*
0	0	0	0	0.785	15.44	1023	15.32	1031
30	0	0	0	0.785	16.06	984	15.93	992
40	0	0	0	0.785	16.27	972	16.13	979
50	0	0	0	0.785	16.47	960	16.33	968
60	0	0	0	0.785	16.66	949	16.53	956
70	0	0	0	0.785	16.86	938	16.73	945
80	0	0	0	0.785	17.05	927	16.92	935
90	0	0	0	0.785	17.24	917	17.11	924
100	0	0	0	0.785	17.43	907	17.3	914
110	0	0	0	0.785	17.62	898	17.48	905
120	0	0	0	0.785	17.76	891	17.67	895
130	0	0	0	0.785	17.88	885	17.85	886
167	0	0	0	0.785	18.31	865	18.31	865
212	0	0	0	0.785	18.82	842	18.82	842

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>68 OF 360</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH812.68
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.969	24.93	2493	24.86	2500*
0	0	0	0	0.785	24.45	1013	24.32	1018
30	0	0	0	0.785	25.08	988	24.94	993
40	0	0	0	0.785	25.28	980	25.14	985
50	0	0	0	0.785	25.49	973	25.35	978
60	0	0	0	0.785	25.69	965	25.55	970
70	0	0	0	0.785	25.89	958	25.75	963
80	0	0	0	0.785	26.09	951	25.94	956
90	0	0	0	0.785	26.29	944	26.14	949
100	0	0	0	0.785	26.48	937	26.34	942
110	0	0	0	0.785	26.68	930	26.53	935
120	0	0	0	0.785	26.84	925	26.72	929
130	0	0	0	0.785	26.96	920	26.91	922
167	0	0	0	0.785	27.42	905	27.42	905
212	0	0	0	0.785	27.96	888	27.96	888
* Design Condition								

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

Indicates Latest Revision	Completely Revised	X	New Page	Information Removed
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2500 LBS

OH812.69

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4
125.00	1-6	1-7	1-8	1-9	1-9	1-10	1-11	2-0	2-0	2-1
150.00	2-2	2-3	2-4	2-6	2-7	2-8	2-9	2-10	2-11	3-0
175.00	2-11	3-1	3-3	3-4	3-6	3-7	3-9	3-10	4-0	4-1
200.00	3-10	4-0	4-2	4-5	4-7	4-9	4-11	5-1	5-2	5-4
225.00	4-10	5-1	5-4	5-7	5-9	6-0	6-2	6-5	6-7	6-9
250.00	6-0	6-3	6-7	6-10	7-1	7-5	7-8	7-11	8-2	8-4

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4
125.00	1-6	1-7	1-8	1-9	1-10	1-11	1-11	2-0	2-1	2-1
150.00	2-2	2-4	2-5	2-6	2-7	2-8	2-10	2-11	3-0	3-0
175.00	3-0	3-2	3-3	3-5	3-7	3-8	3-10	3-11	4-1	4-2
200.00	3-11	4-1	4-4	4-6	4-8	4-10	5-0	5-2	5-3	5-5
225.00	5-0	5-2	5-5	5-8	5-11	6-1	6-4	6-6	6-8	6-10
250.00	6-1	6-5	6-9	7-0	7-3	7-6	7-9	8-0	8-3	8-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 71 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.71
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-2	2-3	2-3	2-4	2-5	2-5	2-6	2-6	2-7	2-7
175.00	3-0	3-1	3-1	3-2	3-3	3-4	3-4	3-5	3-6	3-7
200.00	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
225.00	4-11	5-1	5-2	5-3	5-4	5-6	5-7	5-8	5-9	5-11
250.00	6-1	6-3	6-4	6-6	6-8	6-9	6-11	7-0	7-2	7-3
275.00	7-4	7-6	7-8	7-10	8-0	8-2	8-4	8-6	8-8	8-9
300.00	8-9	9-0	9-2	9-4	9-7	9-9	9-11	10-1	10-3	10-5
325.00	10-4	10-6	10-9	11-0	11-3	11-5	11-8	11-10	12-1	12-3
350.00	11-11	12-3	12-6	12-9	13-0	13-3	13-6	13-9	14-0	14-3
375.00	13-9	14-0	14-4	14-8	14-11	15-3	15-6	15-10	16-1	16-4

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-3	2-3	2-4	2-4	2-5	2-6	2-6	2-7	2-7	2-8
175.00	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-6	3-6	3-7
200.00	3-11	4-0	4-1	4-3	4-4	4-5	4-5	4-6	4-7	4-8
225.00	5-0	5-1	5-3	5-4	5-5	5-6	5-8	5-9	5-10	5-11
250.00	6-2	6-4	6-5	6-7	6-9	6-10	7-0	7-1	7-3	7-4
275.00	7-6	7-8	7-10	8-0	8-1	8-3	8-5	8-7	8-9	8-11
300.00	8-11	9-1	9-3	9-6	9-8	9-10	10-0	10-3	10-5	10-7
325.00	10-5	10-8	10-11	11-2	11-4	11-7	11-9	12-0	12-2	12-5
350.00	12-1	12-5	12-8	12-11	13-2	13-5	13-8	13-11	14-2	14-5
375.00	13-11	14-3	14-6	14-10	15-1	15-5	15-8	16-0	16-3	16-6

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Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-11	4-0	4-0	4-1	4-2	4-2	4-3	4-3	4-4	4-4
225.00	5-0	5-0	5-1	5-2	5-3	5-3	5-4	5-5	5-6	5-6
250.00	6-2	6-3	6-4	6-4	6-5	6-6	6-7	6-8	6-9	6-10
275.00	7-5	7-6	7-7	7-9	7-10	7-11	8-0	8-1	8-2	8-3
300.00	8-10	8-11	9-1	9-2	9-3	9-5	9-6	9-7	9-9	9-10
325.00	10-5	10-6	10-8	10-9	10-11	11-0	11-2	11-3	11-5	11-6
350.00	12-0	12-2	12-4	12-6	12-8	12-10	12-11	13-1	13-3	13-5
375.00	13-10	14-0	14-2	14-4	14-6	14-8	14-10	15-0	15-2	15-4
400.00	15-9	15-11	16-2	16-4	16-6	16-9	16-11	17-1	17-4	17-6
425.00	17-9	18-0	18-3	18-5	18-8	18-11	19-1	19-4	19-6	19-9
450.00	19-11	20-2	20-5	20-8	20-11	21-2	21-5	21-8	21-11	22-2
475.00	22-2	22-6	22-9	23-1	23-4	23-7	23-11	24-2	24-5	24-8
500.00	24-7	24-11	25-3	25-7	25-10	26-2	26-6	26-9	27-1	27-4

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-0	4-0	4-1	4-1	4-2	4-2	4-3	4-4	4-4	4-5
225.00	5-0	5-1	5-2	5-2	5-3	5-4	5-5	5-5	5-6	5-7
250.00	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-9	6-10	6-10
275.00	7-6	7-7	7-8	7-9	7-10	8-0	8-1	8-2	8-3	8-4
300.00	8-11	9-0	9-2	9-3	9-4	9-6	9-7	9-8	9-10	9-11
325.00	10-6	10-7	10-9	10-10	11-0	11-1	11-3	11-4	11-6	11-7
350.00	12-2	12-4	12-5	12-7	12-9	12-11	13-1	13-2	13-4	13-6
375.00	13-11	14-1	14-4	14-6	14-8	14-10	15-0	15-2	15-4	15-6
400.00	15-10	16-1	16-3	16-6	16-8	16-10	17-1	17-3	17-5	17-7
425.00	17-11	18-2	18-4	18-7	18-10	19-0	19-3	19-6	19-8	19-11
450.00	20-1	20-4	20-7	20-10	21-1	21-4	21-7	21-10	22-1	22-4
475.00	22-5	22-8	22-11	23-3	23-6	23-10	24-1	24-4	24-7	24-11
500.00	24-10	25-2	25-5	25-9	26-1	26-5	26-8	27-0	27-3	27-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>73 OF 360</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH812.73
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2500 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	1.969	13.29	2977	13.19	3000*
0	0	0	0	0.785	12.62	1249	12.41	1270
30	0	0	0	0.785	13.36	1180	13.15	1199
40	0	0	0	0.785	13.6	1160	13.39	1178
50	0	0	0	0.785	13.83	1140	13.62	1158
60	0	0	0	0.785	14.07	1122	13.85	1139
70	0	0	0	0.785	14.29	1104	14.08	1121
80	0	0	0	0.785	14.52	1087	14.31	1103
90	0	0	0	0.785	14.74	1071	14.53	1086
100	0	0	0	0.785	14.96	1055	14.75	1070
110	0	0	0	0.785	15.18	1040	14.96	1055
120	0	0	0	0.785	15.37	1027	15.18	1040
130	0	0	0	0.785	15.5	1019	15.39	1026
167	0	0	0	0.785	15.99	988	15.99	988
212	0	0	0	0.785	16.56	955	16.56	955

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>76 OF 360</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH812.76
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 3000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-0
100.00	0-8	0-10	0-11	1-1	1-3	1-5	1-6	1-8	1-9	1-10
125.00	1-0	1-3	1-6	1-9	1-11	2-2	2-4	2-7	2-9	2-10
150.00	1-5	1-9	2-2	2-6	2-10	3-1	3-5	3-8	3-11	4-1
175.00	2-0	2-5	2-11	3-5	3-10	4-3	4-8	5-0	5-4	5-7
200.00	2-7	3-2	3-10	4-5	5-0	5-6	6-1	6-6	7-0	7-4

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-0
100.00	0-8	0-10	1-0	1-2	1-4	1-5	1-7	1-8	1-9	1-10
125.00	1-1	1-4	1-7	1-10	2-1	2-3	2-6	2-8	2-9	2-10
150.00	1-7	1-11	2-4	2-8	3-0	3-3	3-7	3-10	4-0	4-1
175.00	2-2	2-8	3-2	3-7	4-1	4-5	4-10	5-2	5-5	5-7
200.00	2-10	3-5	4-1	4-9	5-3	5-10	6-4	6-9	7-1	7-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 78 OF 360		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH812.78
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 3000 LBS											

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2
125.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-10
150.00	1-8	1-10	1-11	2-1	2-2	2-3	2-5	2-6	2-7	2-8
175.00	2-4	2-6	2-8	2-10	3-0	3-1	3-3	3-5	3-6	3-8
200.00	3-0	3-3	3-6	3-8	3-10	4-1	4-3	4-5	4-7	4-9
225.00	3-10	4-1	4-5	4-8	4-11	5-2	5-4	5-7	5-10	6-0
250.00	4-9	5-1	5-5	5-9	6-1	6-4	6-8	6-11	7-2	7-5

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-2	1-3
125.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-9	1-10	1-11
150.00	1-9	1-11	2-0	2-2	2-3	2-4	2-6	2-7	2-8	2-9
175.00	2-5	2-7	2-9	2-11	3-1	3-3	3-4	3-6	3-7	3-9
200.00	3-2	3-5	3-7	3-10	4-0	4-2	4-5	4-7	4-9	4-10
225.00	4-0	4-4	4-7	4-10	5-1	5-4	5-6	5-9	6-0	6-2
250.00	4-11	5-4	5-8	5-11	6-3	6-7	6-10	7-1	7-5	7-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>79 OF 360</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH812.79</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 3000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-9	1-10	1-11	1-11	2-0	2-1	2-1	2-2	2-3	2-3
175.00	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-11	3-0	3-1
200.00	3-2	3-3	3-4	3-6	3-7	3-8	3-9	3-10	3-11	4-0
225.00	4-0	4-2	4-3	4-5	4-6	4-8	4-9	4-11	5-0	5-1
250.00	4-11	5-1	5-3	5-5	5-7	5-9	5-11	6-0	6-2	6-4
275.00	6-0	6-2	6-5	6-7	6-9	6-11	7-1	7-3	7-6	7-8
300.00	7-2	7-4	7-7	7-10	8-1	8-3	8-6	8-8	8-11	9-1
325.00	8-4	8-8	8-11	9-2	9-5	9-8	9-11	10-2	10-5	10-8
350.00	9-8	10-0	10-4	10-8	10-11	11-3	11-6	11-10	12-1	12-4
375.00	11-2	11-6	11-10	12-3	12-7	12-11	13-3	13-7	13-11	14-2

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-10	1-11	1-11	2-0	2-1	2-1	2-2	2-3	2-3	2-4
175.00	2-6	2-7	2-8	2-9	2-10	2-10	2-11	3-0	3-1	3-2
200.00	3-3	3-4	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1
225.00	4-1	4-3	4-5	4-6	4-8	4-9	4-10	5-0	5-1	5-2
250.00	5-1	5-3	5-5	5-7	5-9	5-10	6-0	6-2	6-3	6-5
275.00	6-2	6-4	6-6	6-9	6-11	7-1	7-3	7-5	7-7	7-9
300.00	7-4	7-7	7-9	8-0	8-3	8-5	8-8	8-10	9-1	9-3
325.00	8-7	8-10	9-2	9-5	9-8	9-11	10-2	10-5	10-8	10-10
350.00	10-0	10-3	10-7	10-11	11-2	11-6	11-9	12-1	12-4	12-7
375.00	11-5	11-10	12-2	12-6	12-10	13-2	13-6	13-10	14-2	14-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>80 OF 360</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH812.80
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 3000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-3	3-3	3-4	3-5	3-6	3-6	3-7	3-8	3-8	3-9
225.00	4-1	4-2	4-3	4-4	4-5	4-5	4-6	4-7	4-8	4-9
250.00	5-0	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10
275.00	6-1	6-3	6-4	6-5	6-6	6-8	6-9	6-10	7-0	7-1
300.00	7-3	7-5	7-6	7-8	7-9	7-11	8-0	8-2	8-3	8-5
325.00	8-6	8-8	8-10	9-0	9-2	9-3	9-5	9-7	9-9	9-10
350.00	9-11	10-1	10-3	10-5	10-7	10-9	10-11	11-1	11-3	11-5
375.00	11-4	11-7	11-9	12-0	12-2	12-4	12-7	12-9	12-11	13-2
400.00	12-11	13-2	13-5	13-7	13-10	14-1	14-4	14-6	14-9	15-0
425.00	14-7	14-10	15-1	15-5	15-8	15-11	16-2	16-5	16-8	16-11
450.00	16-4	16-8	16-11	17-3	17-6	17-10	18-1	18-5	18-8	18-11
475.00	18-2	18-7	18-11	19-3	19-7	19-10	20-2	20-6	20-10	21-1
500.00	20-2	20-7	20-11	21-4	21-8	22-0	22-4	22-9	23-1	23-5

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-3	3-4	3-5	3-5	3-6	3-7	3-8	3-8	3-9	3-9
225.00	4-2	4-3	4-4	4-4	4-5	4-6	4-7	4-8	4-9	4-10
250.00	5-1	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-11
275.00	6-2	6-4	6-5	6-6	6-8	6-9	6-10	7-0	7-1	7-2
300.00	7-4	7-6	7-8	7-9	7-11	8-0	8-2	8-3	8-5	8-6
325.00	8-8	8-10	9-0	9-2	9-3	9-5	9-7	9-9	9-10	10-0
350.00	10-0	10-3	10-5	10-7	10-9	10-11	11-1	11-3	11-5	11-7
375.00	11-6	11-9	11-11	12-2	12-4	12-7	12-9	12-11	13-2	13-4
400.00	13-1	13-4	13-7	13-10	14-1	14-4	14-6	14-9	15-0	15-2
425.00	14-10	15-1	15-4	15-7	15-11	16-2	16-5	16-8	16-11	17-2
450.00	16-7	16-11	17-3	17-6	17-10	18-1	18-5	18-8	18-11	19-3
475.00	18-6	18-10	19-2	19-6	19-10	20-2	20-6	20-10	21-1	21-5
500.00	20-6	20-11	21-3	21-8	22-0	22-4	22-9	23-1	23-5	23-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>81 OF 360</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH812.81
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 3000 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>83 OF 360</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH812.83
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	5- 9	5- 9	5- 9	5- 9	5- 9	5- 9	5- 9	5- 9	5-10	5-10
125.00	9- 0	9- 0	9- 0	9- 0	9- 0	9- 1	9- 1	9- 1	9- 1	9- 1
150.00	13- 0	13- 0	13- 0	13- 0	13- 1	13- 1	13- 1	13- 1	13- 1	13- 1
175.00	17- 8	17- 9	17- 9	17-10	17-10	17-10	17-10	17-11	17-11	17-11
200.00	23- 3	23- 3	23- 4	23- 4	23- 5	23- 5	23- 5	23- 5	23- 6	23- 6
225.00	29- 6	29- 7	29- 8	29- 8	29- 9	29- 9	29-10	29-10	29-10	29-11
250.00	36- 8	36- 8	36- 9	36-10	36-11	36-11	37- 0	37- 0	37- 1	37- 1

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	5- 9	5- 9	5- 9	5- 9	5- 9	5- 9	5- 9	5- 9	5-10	5-10
125.00	9- 0	9- 0	9- 0	9- 0	9- 0	9- 1	9- 1	9- 1	9- 1	9- 1
150.00	13- 0	13- 0	13- 0	13- 0	13- 1	13- 1	13- 1	13- 1	13- 1	13- 1
175.00	17- 8	17- 9	17- 9	17-10	17-10	17-10	17-10	17-11	17-11	17-11
200.00	23- 3	23- 3	23- 4	23- 4	23- 5	23- 5	23- 5	23- 5	23- 6	23- 6
225.00	29- 6	29- 7	29- 8	29- 8	29- 9	29- 9	29-10	29-10	29-10	29-11
250.00	36- 8	36- 9	36- 9	36-10	36-11	36-11	37- 0	37- 0	37- 1	37- 1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 86 OF 360		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH812.86		
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 1000 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	13- 9	13- 9	13- 9	13- 9	13- 9	13- 9	13- 9	13- 9	13- 9	13- 9
175.00	18- 9	18- 9	18- 9	18- 9	18-10	18-10	18-10	18-10	18-10	18-10
200.00	24- 7	24- 7	24- 8	24- 8	24- 8	24- 8	24- 8	24- 8	24- 8	24- 9
225.00	31- 3	31- 4	31- 4	31- 4	31- 4	31- 5	31- 5	31- 5	31- 5	31- 5
250.00	38-10	38-10	38-11	38-11	38-11	39- 0	39- 0	39- 0	39- 0	39- 0
275.00	47- 4	47- 4	47- 4	47- 5	47- 5	47- 6	47- 6	47- 6	47- 6	47- 6
300.00	56- 8	56- 9	56- 9	56-10	56-10	56-11	56-11	56-11	56-11	57- 0
325.00	67- 0	67- 1	67- 2	67- 2	67- 3	67- 3	67- 3	67- 4	67- 4	67- 4
350.00	78- 4	78- 5	78- 6	78- 6	78- 7	78- 8	78- 8	78- 8	78- 9	78- 9
375.00	90- 9	90-10	90-11	90-11	91- 0	91- 1	91- 1	91- 2	91- 2	91- 3

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	13- 9	13- 9	13- 9	13- 9	13- 9	13- 9	13- 9	13- 9	13- 9	13- 9
175.00	18- 9	18- 9	18- 9	18- 9	18-10	18-10	18-10	18-10	18-10	18-10
200.00	24- 7	24- 7	24- 8	24- 8	24- 8	24- 8	24- 8	24- 8	24- 8	24- 9
225.00	31- 3	31- 4	31- 4	31- 4	31- 4	31- 5	31- 5	31- 5	31- 5	31- 5
250.00	38-10	38-11	38-11	38-11	38-11	39- 0	39- 0	39- 0	39- 0	39- 0
275.00	47- 4	47- 4	47- 5	47- 5	47- 5	47- 6	47- 6	47- 6	47- 6	47- 6
300.00	56- 8	56- 9	56- 9	56-10	56-10	56-11	56-11	56-11	56-11	57- 0
325.00	67- 0	67- 1	67- 2	67- 2	67- 3	67- 3	67- 3	67- 4	67- 4	67- 4
350.00	78- 4	78- 5	78- 6	78- 7	78- 7	78- 8	78- 8	78- 8	78- 9	78- 9
375.00	90- 9	90-10	90-11	90-11	91- 0	91- 1	91- 1	91- 2	91- 2	91- 3

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* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 89 OF 360		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH812.89
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 1500 LBS											

Span =	500	ft						
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.403	109.57	1500	109.57	1500*
0	0	0	0	0.785	109.44	268	109.42	268
30	0	0	0	0.785	109.63	267	109.61	267
40	0	0	0	0.785	109.68	267	109.67	267
50	0	0	0	0.785	109.74	267	109.73	267
60	0	0	0	0.785	109.79	267	109.78	267
70	0	0	0	0.785	109.85	267	109.84	267
80	0	0	0	0.785	109.88	267	109.88	267
90	0	0	0	0.785	109.92	267	109.92	267
100	0	0	0	0.785	109.95	267	109.95	267
110	0	0	0	0.785	109.99	267	109.99	267
120	0	0	0	0.785	110.03	267	110.03	267
130	0	0	0	0.785	110.06	267	110.06	267
167	0	0	0	0.785	110.19	266	110.19	266
212	0	0	0	0.785	110.35	266	110.35	266
* Design Condition								

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

Completely Revised

	X
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New Page

Information Removed

SHEET
91 OF 360

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.91

Stringing Sag Table Using Initial Sag										Ruling Span: 100.0 Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-1	2-1	2-2	2-2	2-2	2-3	2-3	2-3	2-3	2-4
100.00	3-8	3-9	3-10	3-10	3-11	3-11	4-0	4-0	4-1	4-1
125.00	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-4	6-5
150.00	8-3	8-5	8-7	8-8	8-10	8-11	9-0	9-1	9-2	9-3
175.00	11-3	11-6	11-8	11-10	12-0	12-2	12-3	12-5	12-6	12-7
200.00	14-9	15-0	15-3	15-6	15-8	15-11	16-1	16-3	16-4	16-6

Stringing Sag Table Using Final Sag										Ruling Span: 100.0 Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-1	2-1	2-2	2-2	2-2	2-3	2-3	2-3	2-3	2-4
100.00	3-8	3-9	3-10	3-10	3-11	4-0	4-0	4-0	4-1	4-1
125.00	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-4	6-5
150.00	8-4	8-5	8-7	8-8	8-10	8-11	9-0	9-1	9-2	9-3
175.00	11-4	11-6	11-8	11-10	12-0	12-2	12-3	12-5	12-6	12-7
200.00	14-10	15-1	15-4	15-6	15-9	15-11	16-1	16-3	16-4	16-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 92 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.92
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	8-7	8-7	8-7	8-8	8-8	8-8	8-8	8-8	8-8	8-8
175.00	11-8	11-9	11-9	11-9	11-9	11-10	11-10	11-10	11-10	11-10
200.00	15-4	15-4	15-4	15-5	15-5	15-5	15-6	15-6	15-6	15-6
225.00	19-5	19-5	19-6	19-6	19-7	19-7	19-7	19-8	19-8	19-8
250.00	24-0	24-1	24-1	24-2	24-2	24-3	24-3	24-3	24-4	24-4
275.00	29-2	29-2	29-3	29-4	29-4	29-5	29-5	29-6	29-6	29-6
300.00	34-9	34-10	34-11	35-0	35-0	35-1	35-2	35-2	35-2	35-3
325.00	40-11	41-0	41-1	41-2	41-3	41-4	41-4	41-5	41-5	41-6
350.00	47-8	47-9	47-10	47-11	48-0	48-1	48-1	48-2	48-3	48-3
375.00	54-11	55-0	55-1	55-2	55-3	55-4	55-5	55-6	55-7	55-7

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	8-7	8-7	8-7	8-8	8-8	8-8	8-8	8-8	8-8	8-8
175.00	11-8	11-9	11-9	11-9	11-9	11-10	11-10	11-10	11-10	11-10
200.00	15-4	15-4	15-4	15-5	15-5	15-5	15-6	15-6	15-6	15-6
225.00	19-5	19-6	19-6	19-6	19-7	19-7	19-7	19-8	19-8	19-8
250.00	24-0	24-1	24-1	24-2	24-2	24-3	24-3	24-3	24-4	24-4
275.00	29-2	29-3	29-3	29-4	29-4	29-5	29-5	29-6	29-6	29-6
300.00	34-10	34-10	34-11	35-0	35-0	35-1	35-2	35-2	35-2	35-3
325.00	41-0	41-1	41-1	41-2	41-3	41-4	41-4	41-5	41-5	41-6
350.00	47-8	47-9	47-10	47-11	48-0	48-1	48-1	48-2	48-3	48-3
375.00	54-11	55-0	55-1	55-2	55-3	55-4	55-5	55-6	55-7	55-7

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[illegible]

Stringing Sag Table Using Final Sag							Ruling Span:	500.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	26-3	26-3	26-3	26-3	26-4	26-4	26-4	26-4	26-4	26-4
275.00	31-10	31-10	31-11	31-11	31-11	31-11	31-11	31-11	32-0	32-0
300.00	38-0	38-1	38-1	38-1	38-1	38-2	38-2	38-2	38-2	38-2
325.00	44-10	44-10	44-10	44-10	44-11	44-11	44-11	44-11	44-11	45-0
350.00	52-2	52-2	52-3	52-3	52-3	52-3	52-4	52-4	52-4	52-4
375.00	60-1	60-2	60-2	60-3	60-3	60-3	60-3	60-4	60-4	60-4
400.00	68-8	68-9	68-9	68-10	68-10	68-11	68-11	68-11	68-11	69-0
425.00	77-11	78-0	78-0	78-1	78-1	78-1	78-2	78-2	78-2	78-3
450.00	87-10	87-10	87-11	87-11	88-0	88-0	88-1	88-1	88-1	88-2
475.00	98-4	98-5	98-5	98-6	98-7	98-7	98-7	98-8	98-8	98-9
500.00	109-7	109-8	109-8	109-9	109-10	109-10	109-11	109-11	109-11	110-0
525.00	121-6	121-7	121-8	121-8	121-9	121-10	121-10	121-11	121-11	122-0
550.00	134-2	134-3	134-4	134-4	134-5	134-6	134-7	134-7	134-8	134-8
575.00	147-7	147-8	147-9	147-10	147-11	147-11	148-0	148-1	148-1	148-2
600.00	161-9	161-10	161-11	162-0	162-1	162-2	162-3	162-3	162-4	162-5
625.00	176-8	176-10	176-11	177-0	177-1	177-2	177-3	177-4	177-4	177-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>96 OF 360</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH812.96
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	4.403	75.03	2000	75.03	2000*
0	0	0	0	0.785	74.81	357	74.78	358
30	0	0	0	0.785	75.07	356	75.04	357
40	0	0	0	0.785	75.14	356	75.12	356
50	0	0	0	0.785	75.22	356	75.19	356
60	0	0	0	0.785	75.29	356	75.27	356
70	0	0	0	0.785	75.36	355	75.34	355
80	0	0	0	0.785	75.42	355	75.41	355
90	0	0	0	0.785	75.47	355	75.47	355
100	0	0	0	0.785	75.52	355	75.52	355
110	0	0	0	0.785	75.57	354	75.57	354
120	0	0	0	0.785	75.62	354	75.62	354
130	0	0	0	0.785	75.67	354	75.67	354
167	0	0	0	0.785	75.84	353	75.84	353
212	0	0	0	0.785	76.06	353	76.06	353

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 99 OF 360	Indicates Latest Revision			Completely Revised	X	New Page		Information Removed	OH812.99
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS								
	DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS								

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-6	1-7	1-7	1-8	1-8	1-9	1-9	1-9	1-10	1-10
100.00	2-8	2-9	2-10	2-11	3-0	3-1	3-1	3-2	3-2	3-3
125.00	4-2	4-4	4-5	4-7	4-8	4-9	4-11	4-11	5-0	5-1
150.00	6-1	6-3	6-5	6-7	6-9	6-11	7-0	7-2	7-3	7-4
175.00	8-3	8-6	8-9	8-11	9-2	9-5	9-7	9-9	9-10	10-0
200.00	10-9	11-1	11-5	11-9	12-0	12-3	12-6	12-8	12-10	13-0

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-6	1-7	1-7	1-8	1-8	1-9	1-9	1-9	1-10	1-10
100.00	2-9	2-10	2-10	2-11	3-0	3-1	3-1	3-2	3-2	3-3
125.00	4-3	4-4	4-6	4-7	4-8	4-10	4-11	4-11	5-0	5-1
150.00	6-1	6-4	6-6	6-8	6-9	6-11	7-0	7-2	7-3	7-4
175.00	8-4	8-7	8-10	9-0	9-3	9-5	9-7	9-9	9-10	10-0
200.00	10-11	11-3	11-6	11-10	12-1	12-4	12-6	12-8	12-10	13-0

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Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-9	2-9	2-10	2-10	2-10	2-10	2-10	2-11	2-11	2-11
125.00	4-4	4-4	4-5	4-5	4-5	4-6	4-6	4-6	4-6	4-7
150.00	6-3	6-3	6-4	6-4	6-5	6-5	6-6	6-6	6-6	6-7
175.00	8-6	8-6	8-7	8-8	8-8	8-9	8-10	8-10	8-11	8-11
200.00	11-1	11-2	11-3	11-4	11-5	11-5	11-6	11-7	11-8	11-8
225.00	14-0	14-2	14-3	14-4	14-5	14-6	14-7	14-8	14-9	14-9
250.00	17-4	17-6	17-7	17-8	17-10	17-11	18-1	18-2	18-3	18-3

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-9	2-9	2-10	2-10	2-10	2-10	2-10	2-11	2-11	2-11
125.00	4-4	4-4	4-5	4-5	4-5	4-6	4-6	4-6	4-6	4-7
150.00	6-3	6-3	6-4	6-4	6-5	6-5	6-6	6-6	6-6	6-7
175.00	8-6	8-7	8-7	8-8	8-9	8-9	8-10	8-10	8-11	8-11
200.00	11-1	11-2	11-3	11-4	11-5	11-6	11-6	11-7	11-8	11-8
225.00	14-1	14-2	14-3	14-4	14-5	14-6	14-7	14-8	14-9	14-9
250.00	17-5	17-6	17-8	17-9	17-10	18-0	18-1	18-2	18-3	18-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 101 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.101
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-4	6-4	6-4	6-4	6-5	6-5	6-5	6-5	6-5	6-5
175.00	8-7	8-7	8-8	8-8	8-8	8-9	8-9	8-9	8-9	8-10
200.00	11-3	11-3	11-4	11-4	11-4	11-5	11-5	11-6	11-6	11-6
225.00	14-3	14-3	14-4	14-4	14-5	14-5	14-6	14-6	14-7	14-7
250.00	17-7	17-8	17-8	17-9	17-10	17-10	17-11	17-11	18-0	18-0
275.00	21-4	21-5	21-5	21-6	21-7	21-8	21-8	21-9	21-9	21-10
300.00	25-5	25-6	25-7	25-8	25-9	25-10	25-10	25-11	26-0	26-0
325.00	29-10	30-0	30-1	30-2	30-3	30-4	30-5	30-6	30-6	30-7
350.00	34-8	34-10	34-11	35-0	35-2	35-3	35-4	35-5	35-6	35-6
375.00	39-11	40-1	40-2	40-3	40-5	40-6	40-8	40-9	40-10	40-11

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-4	6-4	6-4	6-4	6-5	6-5	6-5	6-5	6-5	6-5
175.00	8-7	8-8	8-8	8-8	8-8	8-9	8-9	8-9	8-9	8-10
200.00	11-3	11-3	11-4	11-4	11-5	11-5	11-5	11-6	11-6	11-6
225.00	14-3	14-4	14-4	14-5	14-5	14-6	14-6	14-6	14-7	14-7
250.00	17-7	17-8	17-9	17-9	17-10	17-11	17-11	17-11	18-0	18-0
275.00	21-4	21-5	21-6	21-6	21-7	21-8	21-9	21-9	21-9	21-10
300.00	25-5	25-6	25-7	25-8	25-9	25-10	25-11	25-11	26-0	26-0
325.00	29-11	30-0	30-1	30-2	30-3	30-4	30-5	30-6	30-6	30-7
350.00	34-9	34-10	34-11	35-1	35-2	35-3	35-4	35-5	35-6	35-6
375.00	39-11	40-1	40-2	40-4	40-5	40-7	40-8	40-9	40-10	40-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 102 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.102
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-5	11-5	11-6	11-6	11-6	11-6	11-7	11-7	11-7	11-7
225.00	14-6	14-6	14-6	14-7	14-7	14-7	14-8	14-8	14-8	14-8
250.00	17-11	17-11	18-0	18-0	18-0	18-1	18-1	18-1	18-1	18-2
275.00	21-8	21-9	21-9	21-10	21-10	21-11	21-11	21-11	22-0	22-0
300.00	25-10	25-11	25-11	26-0	26-0	26-1	26-1	26-2	26-2	26-2
325.00	30-5	30-6	30-6	30-7	30-7	30-8	30-8	30-9	30-9	30-10
350.00	35-4	35-5	35-5	35-6	35-7	35-7	35-8	35-9	35-9	35-10
375.00	40-8	40-9	40-9	40-10	40-11	41-0	41-0	41-1	41-2	41-2
400.00	46-4	46-5	46-6	46-7	46-8	46-9	46-9	46-10	46-11	46-11
425.00	52-5	52-6	52-7	52-8	52-9	52-10	52-11	53-0	53-1	53-1
450.00	58-11	59-0	59-1	59-3	59-4	59-5	59-6	59-7	59-8	59-8
475.00	65-10	65-11	66-0	66-2	66-3	66-4	66-6	66-7	66-7	66-8
500.00	73-1	73-3	73-4	73-6	73-7	73-9	73-10	73-11	74-0	74-1

Stringing Sag Table Using Final Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-5	11-6	11-6	11-6	11-6	11-6	11-7	11-7	11-7	11-7
225.00	14-6	14-6	14-7	14-7	14-7	14-7	14-8	14-8	14-8	14-8
250.00	17-11	17-11	18-0	18-0	18-0	18-1	18-1	18-1	18-1	18-2
275.00	21-9	21-9	21-9	21-10	21-10	21-11	21-11	21-11	22-0	22-0
300.00	25-11	25-11	26-0	26-0	26-1	26-1	26-1	26-2	26-2	26-2
325.00	30-5	30-6	30-6	30-7	30-8	30-8	30-9	30-9	30-9	30-10
350.00	35-4	35-5	35-6	35-6	35-7	35-8	35-8	35-9	35-9	35-10
375.00	40-8	40-9	40-10	40-10	40-11	41-0	41-1	41-1	41-2	41-2
400.00	46-4	46-5	46-6	46-7	46-8	46-9	46-10	46-10	46-11	46-11
425.00	52-5	52-7	52-8	52-9	52-10	52-11	52-11	53-0	53-1	53-1
450.00	58-11	59-1	59-2	59-3	59-4	59-5	59-6	59-7	59-8	59-8
475.00	65-10	66-0	66-1	66-2	66-3	66-5	66-6	66-7	66-7	66-8
500.00	73-2	73-3	73-5	73-6	73-8	73-9	73-10	73-11	74-0	74-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 103 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.103
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS					

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 106 OF 360		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH812.106
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2500 LBS											

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-7
100.00	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-8	2-9
125.00	3-2	3-4	3-6	3-8	3-9	3-11	4-0	4-2	4-3	4-3
150.00	4-7	4-10	5-1	5-3	5-5	5-8	5-10	6-0	6-1	6-2
175.00	6-3	6-7	6-11	7-2	7-5	7-8	7-11	8-2	8-3	8-5
200.00	8-3	8-8	9-0	9-4	9-8	10-0	10-4	10-7	10-10	11-0

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-2	1-3	1-3	1-4	1-5	1-5	1-6	1-6	1-6	1-7
100.00	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-8	2-9
125.00	3-3	3-5	3-7	3-8	3-10	4-0	4-1	4-2	4-3	4-3
150.00	4-9	4-11	5-2	5-4	5-6	5-9	5-10	6-0	6-1	6-2
175.00	6-5	6-9	7-0	7-3	7-6	7-9	8-0	8-2	8-3	8-5
200.00	8-5	8-10	9-2	9-6	9-10	10-2	10-5	10-7	10-10	11-0

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 108 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.108
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-2	2-2	2-3	2-3	2-3	2-4	2-4	2-4	2-4	2-4
125.00	3-5	3-5	3-6	3-6	3-7	3-7	3-7	3-8	3-8	3-8
150.00	4-11	5-0	5-0	5-1	5-1	5-2	5-3	5-3	5-4	5-4
175.00	6-8	6-9	6-10	6-11	7-0	7-0	7-1	7-2	7-3	7-3
200.00	8-9	8-10	8-11	9-0	9-1	9-2	9-3	9-4	9-5	9-6
225.00	11-1	11-2	11-4	11-5	11-6	11-8	11-9	11-10	11-11	12-0
250.00	13-8	13-10	13-11	14-1	14-3	14-5	14-6	14-8	14-9	14-10

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-2	2-3	2-3	2-3	2-3	2-4	2-4	2-4	2-4	2-4
125.00	3-5	3-5	3-6	3-6	3-7	3-7	3-8	3-8	3-8	3-8
150.00	4-11	5-0	5-0	5-1	5-2	5-2	5-3	5-3	5-4	5-4
175.00	6-9	6-9	6-10	6-11	7-0	7-1	7-2	7-2	7-3	7-3
200.00	8-9	8-10	8-11	9-1	9-2	9-3	9-4	9-4	9-5	9-6
225.00	11-1	11-3	11-4	11-6	11-7	11-8	11-10	11-10	11-11	12-0
250.00	13-9	13-10	14-0	14-2	14-4	14-5	14-7	14-8	14-9	14-10

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-0	5-0	5-0	5-1	5-1	5-1	5-1	5-2	5-2	5-2
175.00	6-9	6-10	6-10	6-11	6-11	6-11	7-0	7-0	7-0	7-1
200.00	8-10	8-11	8-11	9-0	9-0	9-1	9-1	9-2	9-2	9-3
225.00	11-3	11-3	11-4	11-5	11-5	11-6	11-7	11-7	11-8	11-8
250.00	13-10	13-11	14-0	14-1	14-2	14-2	14-3	14-4	14-4	14-5
275.00	16-10	16-11	17-0	17-1	17-1	17-2	17-3	17-4	17-5	17-5
300.00	20-0	20-1	20-3	20-4	20-5	20-6	20-7	20-8	20-9	20-10
325.00	23-6	23-8	23-9	23-10	24-0	24-1	24-2	24-3	24-4	24-5
350.00	27-4	27-5	27-7	27-8	27-10	27-11	28-1	28-2	28-4	28-4
375.00	31-5	31-7	31-8	31-10	32-0	32-2	32-3	32-5	32-6	32-7

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-0	5-0	5-0	5-1	5-1	5-1	5-2	5-2	5-2	5-2
175.00	6-10	6-10	6-10	6-11	6-11	6-11	7-0	7-0	7-0	7-1
200.00	8-11	8-11	9-0	9-0	9-1	9-1	9-2	9-2	9-2	9-3
225.00	11-3	11-4	11-4	11-5	11-6	11-6	11-7	11-7	11-8	11-8
250.00	13-11	14-0	14-0	14-1	14-2	14-3	14-4	14-4	14-4	14-5
275.00	16-10	16-11	17-0	17-1	17-2	17-3	17-4	17-4	17-5	17-6
300.00	20-1	20-2	20-3	20-4	20-5	20-6	20-7	20-8	20-9	20-10
325.00	23-7	23-8	23-10	23-11	24-0	24-1	24-3	24-4	24-4	24-5
350.00	27-4	27-6	27-8	27-9	27-11	28-0	28-2	28-3	28-4	28-4
375.00	31-5	31-7	31-9	31-11	32-1	32-2	32-4	32-5	32-6	32-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>110 OF 360</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH812.110
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	9-0	9-0	9-0	9-1	9-1	9-1	9-2	9-2	9-2	9-2
225.00	11-5	11-5	11-5	11-6	11-6	11-6	11-7	11-7	11-7	11-8
250.00	14-1	14-1	14-2	14-2	14-3	14-3	14-3	14-4	14-4	14-4
275.00	17-0	17-1	17-1	17-2	17-3	17-3	17-4	17-4	17-4	17-5
300.00	20-3	20-4	20-5	20-5	20-6	20-7	20-7	20-8	20-8	20-9
325.00	23-10	23-11	24-0	24-0	24-1	24-2	24-2	24-3	24-4	24-4
350.00	27-8	27-9	27-10	27-11	28-0	28-0	28-1	28-2	28-3	28-3
375.00	31-10	31-11	32-0	32-1	32-2	32-3	32-4	32-5	32-5	32-6
400.00	36-3	36-4	36-5	36-6	36-7	36-9	36-10	36-11	37-0	37-0
425.00	41-0	41-1	41-2	41-4	41-5	41-6	41-7	41-9	41-9	41-10
450.00	46-0	46-2	46-3	46-4	46-6	46-7	46-9	46-10	46-11	47-0
475.00	51-4	51-6	51-7	51-9	51-10	52-0	52-2	52-3	52-4	52-5
500.00	56-11	57-2	57-3	57-5	57-7	57-9	57-10	58-0	58-1	58-3

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	9-0	9-0	9-1	9-1	9-1	9-1	9-2	9-2	9-2	9-2
225.00	11-5	11-5	11-5	11-6	11-6	11-6	11-7	11-7	11-7	11-8
250.00	14-1	14-1	14-2	14-2	14-3	14-3	14-4	14-4	14-4	14-4
275.00	17-1	17-1	17-2	17-2	17-3	17-3	17-4	17-4	17-4	17-5
300.00	20-4	20-4	20-5	20-6	20-6	20-7	20-7	20-8	20-8	20-9
325.00	23-10	23-11	24-0	24-1	24-1	24-2	24-3	24-3	24-4	24-4
350.00	27-9	27-9	27-10	27-11	28-0	28-1	28-2	28-2	28-3	28-3
375.00	31-10	31-11	32-0	32-1	32-2	32-3	32-4	32-5	32-5	32-6
400.00	36-3	36-5	36-6	36-7	36-8	36-9	36-10	36-11	37-0	37-0
425.00	41-0	41-2	41-3	41-4	41-5	41-7	41-8	41-9	41-9	41-10
450.00	46-1	46-2	46-4	46-5	46-6	46-8	46-9	46-10	46-11	47-0
475.00	51-5	51-6	51-8	51-10	51-11	52-1	52-2	52-3	52-4	52-5
500.00	57-0	57-2	57-4	57-6	57-8	57-9	57-11	58-0	58-1	58-3


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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div>SHEET</div> <div>111 OF 360</div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	OH812.111
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2500 LBS						

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	14-3	14-4	14-4	14-4	14-5	14-5	14-5	14-5	14-5	14-6
275.00	17-4	17-4	17-4	17-5	17-5	17-5	17-6	17-6	17-6	17-6
300.00	20-7	20-8	20-8	20-9	20-9	20-9	20-10	20-10	20-10	20-10
325.00	24-3	24-3	24-4	24-4	24-5	24-5	24-5	24-6	24-6	24-6
350.00	28-1	28-2	28-3	28-3	28-4	28-4	28-5	28-5	28-5	28-6
375.00	32-4	32-5	32-5	32-6	32-6	32-7	32-8	32-8	32-8	32-9
400.00	36-10	36-11	36-11	37-0	37-1	37-1	37-2	37-3	37-3	37-4
425.00	41-8	41-8	41-9	41-10	41-11	42-0	42-0	42-1	42-1	42-2
450.00	46-9	46-10	46-11	47-0	47-1	47-1	47-2	47-3	47-4	47-4
475.00	52-2	52-3	52-4	52-5	52-6	52-7	52-8	52-9	52-9	52-10
500.00	57-11	58-0	58-1	58-2	58-3	58-4	58-6	58-6	58-7	58-8
525.00	63-11	64-1	64-2	64-3	64-4	64-6	64-7	64-8	64-8	64-9
550.00	70-4	70-5	70-7	70-8	70-9	70-11	71-0	71-1	71-2	71-3
575.00	77-0	77-2	77-3	77-5	77-6	77-8	77-9	77-10	77-11	78-0
600.00	84-0	84-2	84-3	84-5	84-7	84-8	84-10	84-11	85-0	85-1
625.00	91-4	91-6	91-8	91-10	91-11	92-1	92-3	92-4	92-5	92-7

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<div style="text-align: center;"> <p>SHEET</p> <p>112 OF 360</p> </div>	Indicates Latest Revision	Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH812.112</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 2500 LBS</p> </div>					

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	4.403	7.38	3000	7.38	3000*
0	0	0	0	0.785	6.93	569	6.85	576
30	0	0	0	0.785	7.29	541	7.24	545
40	0	0	0	0.785	7.41	533	7.35	537
50	0	0	0	0.785	7.52	525	7.46	529
60	0	0	0	0.785	7.63	518	7.57	522
70	0	0	0	0.785	7.73	511	7.67	515
80	0	0	0	0.785	7.84	504	7.78	508
90	0	0	0	0.785	7.91	499	7.88	501
100	0	0	0	0.785	7.98	495	7.98	495
110	0	0	0	0.785	8.05	491	8.05	491
120	0	0	0	0.785	8.11	487	8.11	487
130	0	0	0	0.785	8.18	483	8.18	483
167	0	0	0	0.785	8.41	470	8.41	470
212	0	0	0	0.785	8.69	455	8.69	455
* Design Condition								

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SHEET 113 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.113
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 3000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.403	47.52	3000	47.52	3000*
0	0	0	0	0.785	47.08	540	47	540
30	0	0	0	0.785	47.44	536	47.38	536
40	0	0	0	0.785	47.55	535	47.49	535
50	0	0	0	0.785	47.66	533	47.6	534
60	0	0	0	0.785	47.78	532	47.71	533
70	0	0	0	0.785	47.89	531	47.83	532
80	0	0	0	0.785	48	530	47.94	531
90	0	0	0	0.785	48.09	529	48.05	529
100	0	0	0	0.785	48.16	528	48.16	528
110	0	0	0	0.785	48.23	528	48.23	528
120	0	0	0	0.785	48.31	527	48.3	527
130	0	0	0	0.785	48.38	526	48.38	526
167	0	0	0	0.785	48.64	523	48.64	523
212	0	0	0	0.785	48.96	520	48.96	520
* Design Condition								

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

OH812.115

Stringing Sag Table Using Initial Sag										Ruling Span: 100.0 Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-11	0-11	1-0	1-1	1-2	1-2	1-3	1-3	1-4	1-4
100.00	1-7	1-8	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5
125.00	2-6	2-8	2-10	3-0	3-2	3-4	3-5	3-7	3-8	3-9
150.00	3-7	3-10	4-1	4-4	4-6	4-9	5-0	5-2	5-3	5-5
175.00	4-10	5-2	5-7	5-10	6-2	6-6	6-9	7-0	7-2	7-4
200.00	6-4	6-10	7-3	7-8	8-1	8-5	8-10	9-2	9-5	9-8

Stringing Sag Table Using Final Sag										Ruling Span: 100.0 Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-11	1-0	1-1	1-1	1-2	1-3	1-3	1-3	1-4	1-4
100.00	1-8	1-9	1-10	2-0	2-1	2-2	2-3	2-4	2-4	2-5
125.00	2-7	2-9	2-11	3-1	3-3	3-5	3-6	3-7	3-8	3-9
150.00	3-8	3-11	4-2	4-5	4-8	4-10	5-1	5-2	5-4	5-5
175.00	5-0	5-5	5-9	6-0	6-4	6-8	6-10	7-1	7-2	7-4
200.00	6-7	7-0	7-6	7-11	8-3	8-8	9-0	9-2	9-5	9-8

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SHEET 116 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.116
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 3000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-9	1-10	1-10	1-10	1-11	1-11	1-11	2-0	2-0	2-0
125.00	2-9	2-10	2-10	2-11	2-11	3-0	3-0	3-1	3-1	3-2
150.00	4-0	4-1	4-2	4-2	4-3	4-4	4-4	4-5	4-6	4-6
175.00	5-5	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1	6-2
200.00	7-1	7-3	7-4	7-5	7-7	7-8	7-9	7-11	8-0	8-1
225.00	9-0	9-2	9-4	9-5	9-7	9-9	9-10	10-0	10-1	10-2
250.00	11-2	11-4	11-6	11-8	11-10	12-0	12-2	12-4	12-6	12-7

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-10	1-10	1-10	1-11	1-11	1-11	1-11	2-0	2-0	2-0
125.00	2-10	2-10	2-11	2-11	3-0	3-0	3-1	3-1	3-1	3-2
150.00	4-0	4-1	4-2	4-3	4-3	4-4	4-5	4-5	4-6	4-6
175.00	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1	6-1	6-2
200.00	7-2	7-4	7-5	7-6	7-8	7-9	7-10	7-11	8-0	8-1
225.00	9-1	9-3	9-5	9-6	9-8	9-10	9-11	10-0	10-1	10-2
250.00	11-3	11-5	11-7	11-9	11-11	12-1	12-3	12-5	12-6	12-7

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SHEET 117 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.117
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 3000 LBS					

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.179	23.94	999	23.91	1000*
20	0	0	0	0.785	23.45	679	23.42	680
30	0	0	0	0.785	23.59	675	23.56	676
40	0	0	0	0.785	23.73	671	23.7	672
50	0	0	0	0.785	23.87	667	23.84	668
60	0	0	0	0.785	24.01	663	23.97	664
70	0	0	0	0.785	24.15	660	24.11	661
80	0	0	0	0.785	24.29	656	24.25	657
90	0	0	0	0.785	24.42	652	24.38	653
100	0	0	0	0.785	24.56	649	24.52	650
110	0	0	0	0.785	24.66	646	24.65	646
120	0	0	0	0.785	24.75	644	24.75	644
130	0	0	0	0.785	24.84	642	24.84	642
167	0	0	0	0.785	25.16	634	25.16	634
212	0	0	0	0.785	25.54	625	25.54	625

* Design Condition

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SHEET 122 OF 360		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH812.122
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 1000 LBS											


Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.179	37.7	999	37.67	1000*
20	0	0	0	0.785	37.21	674	37.18	674
30	0	0	0	0.785	37.35	671	37.32	672
40	0	0	0	0.785	37.49	669	37.46	670
50	0	0	0	0.785	37.63	667	37.6	667
60	0	0	0	0.785	37.77	664	37.74	665
70	0	0	0	0.785	37.91	662	37.87	663
80	0	0	0	0.785	38.05	660	38.01	660
90	0	0	0	0.785	38.19	657	38.15	658
100	0	0	0	0.785	38.33	655	38.28	656
110	0	0	0	0.785	38.43	653	38.42	654
120	0	0	0	0.785	38.52	652	38.52	652
130	0	0	0	0.785	38.61	651	38.61	651
167	0	0	0	0.785	38.94	645	38.94	645
212	0	0	0	0.785	39.33	639	39.33	639

* Design Condition

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	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 1000 LBS</p> </div>				

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-1	1-2
100.00	1-0	1-2	1-3	1-5	1-6	1-8	1-9	1-10	2-0	2-0
125.00	1-6	1-9	2-0	2-2	2-5	2-7	2-9	2-11	3-1	3-2
150.00	2-2	2-6	2-10	3-2	3-5	3-9	4-0	4-3	4-5	4-7
175.00	3-0	3-5	3-11	4-4	4-8	5-1	5-5	5-9	6-0	6-3
200.00	3-11	4-6	5-1	5-7	6-2	6-7	7-1	7-6	7-11	8-1

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-2
100.00	1-0	1-2	1-4	1-5	1-7	1-8	1-9	1-11	2-0	2-0
125.00	1-7	1-10	2-0	2-3	2-5	2-7	2-10	3-0	3-1	3-2
150.00	2-3	2-7	2-11	3-3	3-6	3-9	4-0	4-3	4-5	4-7
175.00	3-1	3-6	4-0	4-5	4-9	5-2	5-6	5-10	6-0	6-3
200.00	4-0	4-7	5-2	5-9	6-3	6-9	7-2	7-7	7-11	8-1

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	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag										Ruling Span: 300.0 Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-3	3-3	3-3	3-4	3-4	3-5	3-5	3-5	3-6	3-6
175.00	4-4	4-5	4-6	4-6	4-7	4-7	4-8	4-8	4-9	4-9
200.00	5-9	5-9	5-10	5-11	6-0	6-0	6-1	6-2	6-2	6-3
225.00	7-3	7-4	7-5	7-6	7-7	7-7	7-8	7-9	7-10	7-11
250.00	8-11	9-0	9-2	9-3	9-4	9-5	9-6	9-7	9-8	9-9
275.00	10-10	10-11	11-1	11-2	11-3	11-5	11-6	11-7	11-9	11-10
300.00	12-10	13-0	13-2	13-3	13-5	13-7	13-8	13-10	14-0	14-1
325.00	15-1	15-3	15-5	15-7	15-9	15-11	16-1	16-3	16-5	16-7
350.00	17-6	17-9	17-11	18-1	18-4	18-6	18-8	18-10	19-0	19-2
375.00	20-2	20-4	20-7	20-10	21-0	21-3	21-5	21-8	21-10	22-1

Stringing Sag Table Using Final Sag										Ruling Span: 300.0 Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-3	3-3	3-3	3-4	3-4	3-5	3-5	3-6	3-6	3-6
175.00	4-5	4-5	4-6	4-6	4-7	4-7	4-8	4-9	4-9	4-9
200.00	5-9	5-9	5-10	5-11	6-0	6-0	6-1	6-2	6-3	6-3
225.00	7-3	7-4	7-5	7-6	7-7	7-8	7-9	7-10	7-10	7-11
250.00	8-11	9-1	9-2	9-3	9-4	9-5	9-6	9-7	9-9	9-9
275.00	10-10	10-11	11-1	11-2	11-4	11-5	11-6	11-8	11-9	11-10
300.00	12-11	13-1	13-2	13-4	13-6	13-7	13-9	13-10	14-0	14-1
325.00	15-2	15-4	15-6	15-8	15-10	16-0	16-2	16-3	16-5	16-7
350.00	17-7	17-9	18-0	18-2	18-4	18-6	18-9	18-11	19-1	19-3
375.00	20-2	20-5	20-8	20-10	21-1	21-3	21-6	21-8	21-11	22-1

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	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-10	5-10	5-11	5-11	6-0	6-0	6-0	6-1	6-1	6-2
225.00	7-5	7-5	7-6	7-6	7-7	7-7	7-8	7-8	7-9	7-9
250.00	9-1	9-2	9-3	9-3	9-4	9-5	9-5	9-6	9-7	9-7
275.00	11-0	11-1	11-2	11-3	11-4	11-4	11-5	11-6	11-7	11-7
300.00	13-2	13-3	13-4	13-5	13-5	13-6	13-7	13-8	13-9	13-10
325.00	15-5	15-6	15-7	15-9	15-10	15-11	16-0	16-1	16-2	16-3
350.00	17-11	18-0	18-1	18-3	18-4	18-5	18-7	18-8	18-9	18-10
375.00	20-7	20-8	20-10	20-11	21-1	21-2	21-4	21-5	21-6	21-8
400.00	23-5	23-7	23-8	23-10	24-0	24-1	24-3	24-5	24-6	24-8
425.00	26-5	26-7	26-9	26-11	27-1	27-3	27-5	27-7	27-8	27-10
450.00	29-8	29-10	30-0	30-2	30-5	30-7	30-9	30-11	31-1	31-3
475.00	33-1	33-3	33-6	33-8	33-10	34-1	34-3	34-5	34-8	34-10
500.00	36-8	36-11	37-1	37-4	37-7	37-9	38-0	38-2	38-5	38-8

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-10	5-11	5-11	5-11	6-0	6-0	6-1	6-1	6-1	6-2
225.00	7-5	7-5	7-6	7-6	7-7	7-7	7-8	7-8	7-9	7-9
250.00	9-2	9-2	9-3	9-4	9-4	9-5	9-6	9-6	9-7	9-7
275.00	11-1	11-1	11-2	11-3	11-4	11-5	11-5	11-6	11-7	11-8
300.00	13-2	13-3	13-4	13-5	13-6	13-7	13-8	13-9	13-9	13-10
325.00	15-5	15-7	15-8	15-9	15-10	15-11	16-0	16-1	16-2	16-3
350.00	17-11	18-0	18-2	18-3	18-4	18-6	18-7	18-8	18-9	18-10
375.00	20-7	20-9	20-10	21-0	21-1	21-3	21-4	21-5	21-7	21-8
400.00	23-5	23-7	23-9	23-10	24-0	24-2	24-3	24-5	24-7	24-8
425.00	26-6	26-8	26-10	27-0	27-1	27-3	27-5	27-7	27-9	27-10
450.00	29-9	29-11	30-1	30-3	30-5	30-7	30-9	30-11	31-1	31-3
475.00	33-2	33-4	33-6	33-9	33-11	34-1	34-4	34-6	34-8	34-10
500.00	36-9	36-11	37-2	37-5	37-7	37-10	38-1	38-3	38-6	38-8

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SHEET

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Indicates Latest Revision

Completely Revised

X

New Page

Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING

636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.129

Span = 400 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	1.179	15.95	1488	15.81	1500*
20	0	0	0	0.785	15.16	1042	15.01	1052
30	0	0	0	0.785	15.37	1027	15.23	1037
40	0	0	0	0.785	15.58	1014	15.44	1023
50	0	0	0	0.785	15.79	1000	15.64	1010
60	0	0	0	0.785	16	988	15.85	997
70	0	0	0	0.785	16.2	975	16.05	985
80	0	0	0	0.785	16.4	964	16.25	973
90	0	0	0	0.785	16.6	952	16.45	961
100	0	0	0	0.785	16.8	941	16.64	950
110	0	0	0	0.785	16.99	931	16.84	939
120	0	0	0	0.785	17.14	923	17.03	929
130	0	0	0	0.785	17.26	916	17.22	919
167	0	0	0	0.785	17.71	893	17.71	893
212	0	0	0	0.785	18.23	868	18.23	868
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B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 130 OF 360		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH812.130
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 1500 LBS											

Span = 500 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.179	24.93	1492	24.8	1500*
20	0	0	0	0.785	24.14	1025	24	1032
30	0	0	0	0.785	24.36	1017	24.21	1023
40	0	0	0	0.785	24.57	1008	24.42	1014
50	0	0	0	0.785	24.78	1000	24.63	1006
60	0	0	0	0.785	24.98	992	24.83	998
70	0	0	0	0.785	25.19	984	25.04	990
80	0	0	0	0.785	25.39	976	25.24	982
90	0	0	0	0.785	25.6	968	25.44	974
100	0	0	0	0.785	25.8	961	25.64	967
110	0	0	0	0.785	26	954	25.84	960
120	0	0	0	0.785	26.17	948	26.04	952
130	0	0	0	0.785	26.3	943	26.23	945
167	0	0	0	0.785	26.76	927	26.76	927
212	0	0	0	0.785	27.31	909	27.31	909

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

OH812.131

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-3
125.00	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-9	1-10	1-11
150.00	1-9	1-11	2-0	2-1	2-3	2-4	2-5	2-6	2-8	2-9
175.00	2-5	2-7	2-9	2-11	3-0	3-2	3-4	3-5	3-7	3-8
200.00	3-2	3-4	3-7	3-9	4-0	4-2	4-4	4-6	4-8	4-10
225.00	4-0	4-3	4-6	4-9	5-0	5-3	5-6	5-8	5-11	6-2
250.00	4-11	5-3	5-7	5-11	6-2	6-6	6-9	7-1	7-4	7-7

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3
125.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-11
150.00	1-10	2-0	2-1	2-2	2-4	2-5	2-6	2-7	2-8	2-9
175.00	2-6	2-8	2-10	3-0	3-2	3-3	3-5	3-7	3-8	3-9
200.00	3-3	3-6	3-8	3-11	4-1	4-3	4-6	4-8	4-10	4-11
225.00	4-2	4-5	4-8	4-11	5-2	5-5	5-8	5-10	6-1	6-3
250.00	5-2	5-6	5-9	6-1	6-5	6-8	7-0	7-3	7-6	7-8

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Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-0	2-1	2-1	2-2	2-3	2-3	2-4	2-4	2-5	2-6
175.00	2-9	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-3	3-4
200.00	3-7	3-8	3-9	3-10	3-11	4-1	4-2	4-3	4-4	4-5
225.00	4-6	4-8	4-9	4-11	5-0	5-1	5-3	5-4	5-5	5-7
250.00	5-7	5-9	5-11	6-0	6-2	6-4	6-5	6-7	6-9	6-10
275.00	6-9	7-0	7-2	7-4	7-6	7-8	7-10	8-0	8-2	8-3
300.00	8-1	8-3	8-6	8-8	8-11	9-1	9-4	9-6	9-8	9-10
325.00	9-6	9-9	10-0	10-3	10-5	10-8	10-11	11-2	11-4	11-7
350.00	11-0	11-3	11-7	11-10	12-1	12-5	12-8	12-11	13-2	13-5
375.00	12-7	12-11	13-3	13-7	13-11	14-3	14-6	14-10	15-2	15-5

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-1	2-1	2-2	2-3	2-3	2-4	2-4	2-5	2-5	2-6
175.00	2-10	2-10	2-11	3-0	3-1	3-2	3-3	3-3	3-4	3-5
200.00	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5
225.00	4-7	4-9	4-10	5-0	5-1	5-2	5-4	5-5	5-6	5-7
250.00	5-8	5-10	6-0	6-2	6-3	6-5	6-7	6-8	6-10	6-11
275.00	6-11	7-1	7-3	7-5	7-7	7-9	7-11	8-1	8-3	8-5
300.00	8-3	8-5	8-8	8-10	9-1	9-3	9-5	9-8	9-10	10-0
325.00	9-8	9-11	10-2	10-5	10-7	10-10	11-1	11-4	11-6	11-9
350.00	11-2	11-6	11-9	12-1	12-4	12-7	12-10	13-1	13-4	13-7
375.00	12-10	13-2	13-6	13-10	14-2	14-5	14-9	15-1	15-4	15-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 134 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.134
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-9	3-10	3-10	3-11	3-11	4-0	4-1	4-1	4-2	4-2
225.00	4-9	4-10	4-11	4-11	5-0	5-1	5-2	5-2	5-3	5-4
250.00	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7
275.00	7-1	7-2	7-3	7-5	7-6	7-7	7-8	7-9	7-10	7-11
300.00	8-5	8-7	8-8	8-9	8-11	9-0	9-2	9-3	9-4	9-6
325.00	9-11	10-1	10-2	10-4	10-5	10-7	10-9	10-10	11-0	11-1
350.00	11-6	11-8	11-10	12-0	12-2	12-3	12-5	12-7	12-9	12-11
375.00	13-2	13-5	13-7	13-9	13-11	14-1	14-3	14-5	14-7	14-10
400.00	15-0	15-3	15-5	15-8	15-10	16-1	16-3	16-5	16-8	16-10
425.00	16-11	17-2	17-5	17-8	17-11	18-1	18-4	18-7	18-10	19-0
450.00	19-0	19-3	19-7	19-10	20-1	20-4	20-7	20-10	21-1	21-4
475.00	21-2	21-6	21-9	22-1	22-4	22-8	22-11	23-3	23-6	23-9
500.00	23-6	23-10	24-2	24-6	24-9	25-1	25-5	25-9	26-0	26-4

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-9	3-10	3-11	3-11	4-0	4-1	4-1	4-2	4-2	4-3
225.00	4-9	4-10	4-11	5-0	5-1	5-1	5-2	5-3	5-4	5-4
250.00	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-8
275.00	7-2	7-3	7-4	7-5	7-7	7-8	7-9	7-10	7-11	8-0
300.00	8-6	8-8	8-9	8-10	9-0	9-1	9-3	9-4	9-5	9-7
325.00	10-0	10-2	10-3	10-5	10-7	10-8	10-10	10-11	11-1	11-2
350.00	11-7	11-9	11-11	12-1	12-3	12-5	12-7	12-8	12-10	13-0
375.00	13-4	13-6	13-8	13-11	14-1	14-3	14-5	14-7	14-9	14-11
400.00	15-2	15-4	15-7	15-10	16-0	16-2	16-5	16-7	16-10	17-0
425.00	17-1	17-4	17-7	17-10	18-1	18-4	18-6	18-9	19-0	19-2
450.00	19-2	19-6	19-9	20-0	20-3	20-6	20-9	21-0	21-3	21-6
475.00	21-5	21-8	22-0	22-3	22-7	22-10	23-2	23-5	23-8	24-0
500.00	23-9	24-1	24-5	24-8	25-0	25-4	25-8	26-0	26-3	26-7

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Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.179	18.81	1970	18.52	2000*
20	0	0	0	0.785	17.7	1393	17.38	1418
30	0	0	0	0.785	17.98	1371	17.66	1396
40	0	0	0	0.785	18.26	1350	17.94	1375
50	0	0	0	0.785	18.54	1331	18.21	1354
60	0	0	0	0.785	18.81	1312	18.48	1335
70	0	0	0	0.785	19.07	1294	18.75	1316
80	0	0	0	0.785	19.34	1276	19.01	1298
90	0	0	0	0.785	19.6	1259	19.27	1280
100	0	0	0	0.785	19.86	1243	19.53	1264
110	0	0	0	0.785	20.11	1228	19.79	1248
120	0	0	0	0.785	20.36	1213	20.04	1232
130	0	0	0	0.785	20.57	1201	20.29	1217
167	0	0	0	0.785	21.15	1168	21.15	1168
212	0	0	0	0.785	21.82	1133	21.82	1133
* Design Condition								

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>139 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH812.139</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 2000 LBS</p> </div>					

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Information Removed

<div style="text-align: center;"> <p>SHEET</p> <p>139 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH812.139</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 2000 LBS</p> </div>					

<div style="text-align: center;"> <p>SHEET</p> <p>139 OF 360</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH812.139</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 2000 LBS</p> </div>						

<div style="text-align: center;"> <p>SHEET</p> <p>139 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH812.139</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 2000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10
100.00	0-4	0-5	0-6	0-7	0-9	0-10	1-0	1-2	1-4	1-5
125.00	0-6	0-7	0-9	0-11	1-1	1-4	1-7	1-10	2-1	2-3
150.00	0-9	0-10	1-1	1-4	1-7	2-0	2-4	2-8	3-0	3-3
175.00	1-0	1-2	1-5	1-9	2-2	2-8	3-2	3-7	4-0	4-5
200.00	1-3	1-6	1-10	2-4	2-10	3-6	4-1	4-8	5-3	5-10

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-9	0-10
100.00	0-4	0-5	0-7	0-8	0-10	1-0	1-2	1-4	1-5	1-6
125.00	0-7	0-8	0-10	1-1	1-4	1-7	1-10	2-1	2-2	2-3
150.00	0-10	1-0	1-3	1-7	1-11	2-4	2-8	3-0	3-2	3-3
175.00	1-1	1-4	1-8	2-2	2-8	3-2	3-7	4-1	4-3	4-6
200.00	1-5	1-9	2-3	2-10	3-5	4-1	4-9	5-3	5-7	5-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 140 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.140
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0
125.00	0-9	0-10	0-11	1-1	1-2	1-3	1-4	1-5	1-6	1-7
150.00	1-1	1-3	1-4	1-6	1-8	1-9	1-11	2-0	2-1	2-3
175.00	1-6	1-8	1-10	2-1	2-3	2-5	2-7	2-9	2-11	3-0
200.00	1-11	2-2	2-5	2-8	2-11	3-2	3-4	3-7	3-9	4-0
225.00	2-6	2-9	3-1	3-5	3-8	4-0	4-3	4-6	4-9	5-0
250.00	3-1	3-5	3-10	4-2	4-7	4-11	5-3	5-7	5-11	6-2

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-7	0-8	0-9	0-10	0-10	0-11	0-11	1-0	1-0
125.00	0-10	0-11	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7
150.00	1-3	1-5	1-6	1-8	1-9	1-11	2-0	2-2	2-3	2-4
175.00	1-8	1-10	2-1	2-3	2-5	2-7	2-9	2-11	3-1	3-2
200.00	2-2	2-5	2-8	2-11	3-2	3-5	3-7	3-10	4-0	4-2
225.00	2-9	3-1	3-5	3-9	4-0	4-4	4-7	4-10	5-1	5-3
250.00	3-5	3-10	4-3	4-7	4-11	5-4	5-8	5-11	6-3	6-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div>SHEET</div> <div>141 OF 360</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div>OH812.141</div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div>STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING</div> <div>636 - 24/7 ACSR/AW TENSION 2000 LBS</div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-5	1-5	1-6	1-7	1-8	1-9	1-9	1-10	1-11	1-11
175.00	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8
200.00	2-5	2-7	2-8	2-10	2-11	3-1	3-2	3-3	3-4	3-6
225.00	3-1	3-3	3-5	3-7	3-9	3-10	4-0	4-2	4-3	4-5
250.00	3-10	4-0	4-3	4-5	4-7	4-9	4-11	5-1	5-3	5-5
275.00	4-8	4-11	5-1	5-4	5-7	5-9	6-0	6-2	6-4	6-7
300.00	5-6	5-10	6-1	6-4	6-7	6-10	7-1	7-4	7-7	7-10
325.00	6-6	6-10	7-2	7-5	7-9	8-1	8-4	8-7	8-11	9-2
350.00	7-6	7-11	8-3	8-8	9-0	9-4	9-8	10-0	10-4	10-7
375.00	8-8	9-1	9-6	9-11	10-4	10-9	11-1	11-6	11-10	12-2

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-5	1-6	1-7	1-8	1-9	1-9	1-10	1-11	2-0	2-0
175.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
200.00	2-7	2-9	2-10	2-11	3-1	3-2	3-3	3-5	3-6	3-7
225.00	3-3	3-5	3-7	3-9	3-11	4-0	4-2	4-3	4-5	4-7
250.00	4-1	4-3	4-5	4-7	4-10	5-0	5-2	5-4	5-5	5-7
275.00	4-11	5-2	5-4	5-7	5-10	6-0	6-3	6-5	6-7	6-9
300.00	5-10	6-1	6-5	6-8	6-11	7-2	7-5	7-8	7-10	8-1
325.00	6-10	7-2	7-6	7-10	8-1	8-5	8-8	8-11	9-3	9-6
350.00	7-11	8-4	8-8	9-1	9-5	9-9	10-1	10-5	10-8	11-0
375.00	9-1	9-7	10-0	10-5	10-9	11-2	11-7	11-11	12-3	12-8

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-8	2-9	2-10	2-11	2-11	3-0	3-1	3-2	3-2	3-3
225.00	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2
250.00	4-2	4-3	4-5	4-6	4-7	4-8	4-10	4-11	5-0	5-1
275.00	5-1	5-2	5-4	5-5	5-7	5-8	5-10	5-11	6-1	6-2
300.00	6-0	6-2	6-4	6-6	6-8	6-9	6-11	7-1	7-2	7-4
325.00	7-1	7-3	7-5	7-7	7-9	7-11	8-1	8-3	8-5	8-7
350.00	8-2	8-5	8-7	8-10	9-0	9-3	9-5	9-7	9-10	10-0
375.00	9-5	9-8	9-11	10-2	10-4	10-7	10-10	11-0	11-3	11-6
400.00	10-8	11-0	11-3	11-6	11-10	12-1	12-4	12-7	12-10	13-1
425.00	12-1	12-5	12-8	13-0	13-4	13-7	13-11	14-2	14-6	14-9
450.00	13-6	13-11	14-3	14-7	14-11	15-3	15-7	15-11	16-3	16-6
475.00	15-1	15-6	15-11	16-3	16-8	17-0	17-4	17-9	18-1	18-5
500.00	16-9	17-2	17-7	18-0	18-5	18-10	19-3	19-8	20-0	20-5

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-9	2-10	2-11	2-11	3-0	3-1	3-2	3-3	3-3	3-4
225.00	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3
250.00	4-4	4-5	4-6	4-7	4-9	4-10	4-11	5-0	5-1	5-3
275.00	5-2	5-4	5-6	5-7	5-9	5-10	6-0	6-1	6-2	6-4
300.00	6-2	6-4	6-6	6-8	6-10	6-11	7-1	7-3	7-5	7-6
325.00	7-3	7-5	7-8	7-10	8-0	8-2	8-4	8-6	8-8	8-10
350.00	8-5	8-8	8-10	9-1	9-3	9-6	9-8	9-10	10-1	10-3
375.00	9-8	9-11	10-2	10-5	10-8	10-10	11-1	11-4	11-6	11-9
400.00	11-0	11-4	11-7	11-10	12-1	12-4	12-7	12-10	13-1	13-4
425.00	12-5	12-9	13-1	13-4	13-8	14-0	14-3	14-6	14-10	15-1
450.00	13-11	14-4	14-8	15-0	15-4	15-8	16-0	16-4	16-7	16-11
475.00	15-6	15-11	16-4	16-8	17-1	17-5	17-10	18-2	18-6	18-10
500.00	17-3	17-8	18-1	18-6	18-11	19-4	19-9	20-2	20-6	20-11

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[illegible]

Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-4	4-5	4-6	4-7	4-7	4-8	4-9	4-10	4-11	4-11
275.00	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-11	6-0
300.00	6-3	6-4	6-5	6-7	6-8	6-9	6-10	6-11	7-0	7-1
325.00	7-4	7-5	7-7	7-8	7-10	7-11	8-0	8-2	8-3	8-4
350.00	8-6	8-8	8-9	8-11	9-1	9-2	9-4	9-5	9-7	9-8
375.00	9-9	9-11	10-1	10-3	10-5	10-6	10-8	10-10	11-0	11-1
400.00	11-1	11-4	11-6	11-8	11-10	12-0	12-2	12-4	12-6	12-8
425.00	12-7	12-9	12-11	13-2	13-4	13-6	13-9	13-11	14-1	14-3
450.00	14-1	14-4	14-6	14-9	15-0	15-2	15-5	15-7	15-10	16-0
475.00	15-8	15-11	16-2	16-5	16-8	16-11	17-2	17-5	17-7	17-10
500.00	17-5	17-8	17-11	18-3	18-6	18-9	19-0	19-3	19-6	19-9
525.00	19-2	19-6	19-9	20-1	20-5	20-8	21-0	21-3	21-6	21-10
550.00	21-0	21-5	21-9	22-1	22-4	22-8	23-0	23-4	23-8	23-11
575.00	23-0	23-4	23-9	24-1	24-5	24-10	25-2	25-6	25-10	26-2
600.00	25-1	25-5	25-10	26-3	26-8	27-0	27-5	27-9	28-2	28-6
625.00	27-2	27-7	28-1	28-6	28-11	29-4	29-9	30-2	30-7	30-11

Stringing Sag Table Using Final Sag

Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-5	4-6	4-7	4-8	4-8	4-9	4-10	4-11	4-11	5-0
275.00	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1
300.00	6-4	6-6	6-7	6-8	6-9	6-10	6-11	7-1	7-2	7-3
325.00	7-6	7-7	7-8	7-10	7-11	8-1	8-2	8-3	8-5	8-6
350.00	8-8	8-10	8-11	9-1	9-2	9-4	9-6	9-7	9-9	9-10
375.00	9-11	10-1	10-3	10-5	10-7	10-9	10-10	11-0	11-2	11-4
400.00	11-4	11-6	11-8	11-10	12-0	12-2	12-4	12-6	12-8	12-10
425.00	12-9	13-0	13-2	13-5	13-7	13-9	14-0	14-2	14-4	14-6
450.00	14-4	14-7	14-9	15-0	15-3	15-5	15-8	15-10	16-1	16-3
475.00	16-0	16-3	16-6	16-9	17-0	17-3	17-5	17-8	17-11	18-2
500.00	17-8	18-0	18-3	18-6	18-10	19-1	19-4	19-7	19-10	20-1
525.00	19-6	19-10	20-2	20-5	20-9	21-0	21-4	21-7	21-11	22-2
550.00	21-5	21-9	22-1	22-5	22-9	23-1	23-5	23-9	24-0	24-4
575.00	23-5	23-10	24-2	24-6	24-11	25-3	25-7	25-11	26-3	26-7
600.00	25-6	25-11	26-4	26-9	27-1	27-6	27-10	28-3	28-7	29-0
625.00	27-8	28-2	28-7	29-0	29-5	29-10	30-3	30-8	31-1	31-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 144 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.144
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.179	15.26	2423	14.79	2500*
20	0	0	0	0.785	13.84	1778	13.29	1851
30	0	0	0	0.785	14.18	1735	13.64	1804
40	0	0	0	0.785	14.52	1695	13.98	1761
50	0	0	0	0.785	14.85	1657	14.31	1720
60	0	0	0	0.785	15.18	1622	14.64	1681
70	0	0	0	0.785	15.5	1588	14.97	1645
80	0	0	0	0.785	15.82	1557	15.29	1611
90	0	0	0	0.785	16.13	1527	15.6	1579
100	0	0	0	0.785	16.44	1499	15.91	1548
110	0	0	0	0.785	16.74	1472	16.21	1519
120	0	0	0	0.785	17.03	1447	16.51	1492
130	0	0	0	0.785	17.32	1423	16.81	1466
167	0	0	0	0.785	17.98	1372	17.86	1380
212	0	0	0	0.785	18.75	1316	18.75	1316

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>147 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	<div style="border: 1px solid black; padding: 2px;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH812.147</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 2500 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-10
125.00	0-6	0-7	0-8	0-9	0-11	1-0	1-1	1-2	1-3	1-4
150.00	0-9	0-10	1-0	1-2	1-3	1-5	1-6	1-8	1-10	1-11
175.00	1-0	1-2	1-4	1-6	1-9	1-11	2-1	2-3	2-5	2-7
200.00	1-4	1-7	1-9	2-0	2-3	2-6	2-9	3-0	3-2	3-5
225.00	1-9	2-0	2-3	2-6	2-10	3-2	3-6	3-9	4-1	4-4
250.00	2-1	2-5	2-9	3-2	3-6	3-11	4-3	4-8	5-0	5-4

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-11	0-11
125.00	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-5
150.00	0-11	1-0	1-2	1-4	1-6	1-7	1-9	1-10	2-0	2-1
175.00	1-3	1-5	1-7	1-10	2-0	2-2	2-4	2-6	2-8	2-10
200.00	1-7	1-10	2-1	2-4	2-7	2-10	3-1	3-4	3-6	3-8
225.00	2-0	2-4	2-8	3-0	3-4	3-7	3-11	4-2	4-6	4-8
250.00	2-6	2-11	3-4	3-8	4-1	4-6	4-10	5-2	5-6	5-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>149 OF 360</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH812.149
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1
275.00	4-0	4-1	4-3	4-4	4-5	4-6	4-7	4-9	4-10	4-11
300.00	4-9	4-11	5-0	5-2	5-3	5-5	5-6	5-7	5-9	5-10
325.00	5-7	5-9	5-11	6-1	6-2	6-4	6-5	6-7	6-9	6-10
350.00	6-6	6-8	6-10	7-0	7-2	7-4	7-6	7-8	7-9	7-11
375.00	7-6	7-8	7-10	8-1	8-3	8-5	8-7	8-9	8-11	9-1
400.00	8-6	8-9	8-11	9-2	9-4	9-7	9-9	10-0	10-2	10-4
425.00	9-7	9-10	10-1	10-4	10-7	10-10	11-0	11-3	11-6	11-9
450.00	10-9	11-1	11-4	11-7	11-10	12-1	12-5	12-8	12-11	13-2
475.00	12-0	12-4	12-7	12-11	13-3	13-6	13-10	14-1	14-4	14-8
500.00	13-3	13-8	14-0	14-4	14-8	15-0	15-3	15-7	15-11	16-3
525.00	14-8	15-0	15-5	15-9	16-2	16-6	16-10	17-2	17-6	17-11
550.00	16-1	16-6	16-11	17-4	17-9	18-1	18-6	18-11	19-3	19-7
575.00	17-7	18-0	18-6	18-11	19-4	19-10	20-3	20-8	21-1	21-5
600.00	19-2	19-8	20-2	20-7	21-1	21-7	22-0	22-6	22-11	23-4
625.00	20-9	21-4	21-10	22-5	22-11	23-5	23-11	24-5	24-11	25-4

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-5	3-7	3-8	3-9	3-10	3-10	3-11	4-0	4-1	4-2
275.00	4-2	4-3	4-5	4-6	4-7	4-8	4-9	4-10	5-0	5-1
300.00	5-0	5-1	5-3	5-4	5-6	5-7	5-8	5-10	5-11	6-0
325.00	5-10	6-0	6-2	6-3	6-5	6-7	6-8	6-10	6-11	7-1
350.00	6-9	6-11	7-1	7-3	7-5	7-7	7-9	7-11	8-1	8-2
375.00	7-9	8-0	8-2	8-4	8-6	8-9	8-11	9-1	9-3	9-5
400.00	8-10	9-1	9-3	9-6	9-9	9-11	10-1	10-4	10-6	10-8
425.00	10-0	10-3	10-6	10-9	11-0	11-2	11-5	11-8	11-10	12-1
450.00	11-2	11-6	11-9	12-0	12-4	12-7	12-10	13-1	13-4	13-7
475.00	12-6	12-10	13-1	13-5	13-8	14-0	14-3	14-7	14-10	15-1
500.00	13-10	14-2	14-6	14-10	15-2	15-6	15-10	16-2	16-5	16-9
525.00	15-3	15-8	16-0	16-5	16-9	17-1	17-5	17-9	18-1	18-5
550.00	16-9	17-2	17-7	18-0	18-5	18-9	19-2	19-6	19-11	20-3
575.00	18-4	18-9	19-3	19-8	20-1	20-6	20-11	21-4	21-9	22-2
600.00	19-11	20-5	20-11	21-5	21-10	22-4	22-10	23-3	23-8	24-1
625.00	21-8	22-2	22-8	23-3	23-9	24-3	24-9	25-3	25-8	26-2

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* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>154 OF 360</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.154
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 3000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.179	12.97	2847	12.31	3000*
20	0	0	0	0.785	11.26	2184	10.46	2350
30	0	0	0	0.785	11.66	2109	10.86	2263
40	0	0	0	0.785	12.05	2041	11.26	2183
50	0	0	0	0.785	12.43	1978	11.65	2111
60	0	0	0	0.785	12.81	1920	12.03	2044
70	0	0	0	0.785	13.18	1867	12.4	1983
80	0	0	0	0.785	13.54	1818	12.77	1926
90	0	0	0	0.785	13.89	1772	13.13	1874
100	0	0	0	0.785	14.23	1729	13.48	1825
110	0	0	0	0.785	14.57	1689	13.83	1780
120	0	0	0	0.785	14.9	1652	14.17	1737
130	0	0	0	0.785	15.23	1617	14.5	1698
167	0	0	0	0.785	15.98	1541	15.69	1570
212	0	0	0	0.785	16.82	1465	16.82	1465
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>155 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	New Page	Information Removed	<div style="text-align: center;"> <p>OH812.155</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 3000 LBS</p> </div>				

Completely Revised

New Page

OH812.155

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag										Ruling Span: 100.0 Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-3	0-4	0-4	0-5	0-6	0-7
100.00	0-3	0-3	0-4	0-4	0-5	0-6	0-8	0-10	0-11	1-1
125.00	0-4	0-5	0-6	0-6	0-8	0-10	1-0	1-3	1-6	1-9
150.00	0-6	0-7	0-8	0-9	0-11	1-2	1-5	1-10	2-2	2-6
175.00	0-8	0-9	0-11	1-1	1-3	1-7	2-0	2-5	2-11	3-5
200.00	0-11	1-0	1-2	1-5	1-8	2-1	2-7	3-2	3-10	4-5

Stringing Sag Table Using Final Sag										Ruling Span: 100.0 Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-8
100.00	0-3	0-4	0-5	0-6	0-7	0-9	0-11	1-1	1-1	1-2
125.00	0-5	0-6	0-7	0-9	0-11	1-2	1-5	1-8	1-9	1-10
150.00	0-7	0-8	0-10	1-1	1-4	1-8	2-1	2-4	2-6	2-8
175.00	0-10	0-11	1-2	1-5	1-10	2-4	2-10	3-3	3-5	3-8
200.00	1-0	1-3	1-6	1-11	2-5	3-0	3-8	4-2	4-6	4-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 156 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.156
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 3000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-8	0-9
125.00	0-5	0-6	0-6	0-7	0-8	0-9	0-11	1-0	1-1	1-2
150.00	0-7	0-8	0-9	0-11	1-0	1-2	1-3	1-5	1-7	1-8
175.00	0-10	0-11	1-1	1-2	1-4	1-7	1-9	1-11	2-1	2-3
200.00	1-1	1-2	1-4	1-7	1-9	2-0	2-3	2-6	2-9	3-0
225.00	1-4	1-6	1-9	2-0	2-3	2-7	2-10	3-2	3-6	3-9
250.00	1-8	1-10	2-2	2-5	2-10	3-2	3-7	3-11	4-4	4-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-10
125.00	0-6	0-7	0-8	0-9	0-10	1-0	1-1	1-2	1-3	1-4
150.00	0-9	0-10	1-0	1-1	1-3	1-5	1-7	1-8	1-10	1-11
175.00	1-0	1-2	1-4	1-6	1-9	1-11	2-1	2-3	2-5	2-7
200.00	1-3	1-6	1-9	2-0	2-3	2-6	2-9	3-0	3-3	3-4
225.00	1-8	1-11	2-2	2-6	2-10	3-2	3-6	3-9	4-1	4-3
250.00	2-0	2-4	2-8	3-1	3-6	3-11	4-3	4-8	5-0	5-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>157 OF 360</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div style="color: orange; font-weight: bold; font-size: 2em;">X</div> <div>New Page</div> </div> <div> <div>Information Removed</div> </div>									OH812.157
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 3000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-10	0-11	1-0	1-1	1-2	1-2	1-3	1-4	1-5
175.00	1-0	1-1	1-3	1-4	1-5	1-6	1-8	1-9	1-10	1-11
200.00	1-4	1-5	1-7	1-9	1-10	2-0	2-2	2-3	2-5	2-6
225.00	1-8	1-10	2-0	2-2	2-4	2-6	2-8	2-11	3-1	3-2
250.00	2-1	2-3	2-6	2-8	2-11	3-2	3-4	3-7	3-9	3-11
275.00	2-6	2-9	3-0	3-3	3-6	3-9	4-1	4-4	4-7	4-9
300.00	2-11	3-3	3-7	3-10	4-2	4-6	4-10	5-1	5-5	5-8
325.00	3-5	3-10	4-2	4-6	4-11	5-3	5-8	6-0	6-4	6-8
350.00	4-0	4-5	4-10	5-3	5-8	6-2	6-7	7-0	7-4	7-9
375.00	4-7	5-1	5-7	6-1	6-7	7-0	7-6	8-0	8-5	8-11

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7
175.00	1-2	1-4	1-5	1-6	1-8	1-9	1-10	1-11	2-0	2-2
200.00	1-7	1-8	1-10	2-0	2-2	2-3	2-5	2-6	2-8	2-9
225.00	2-0	2-2	2-4	2-6	2-8	2-11	3-1	3-3	3-4	3-6
250.00	2-5	2-8	2-11	3-1	3-4	3-7	3-9	4-0	4-2	4-4
275.00	2-11	3-3	3-6	3-9	4-0	4-4	4-7	4-10	5-0	5-3
300.00	3-6	3-10	4-2	4-6	4-10	5-1	5-5	5-9	6-0	6-3
325.00	4-1	4-6	4-11	5-3	5-8	6-0	6-4	6-9	7-0	7-4
350.00	4-9	5-2	5-8	6-1	6-7	7-0	7-5	7-9	8-2	8-6
375.00	5-5	6-0	6-6	7-0	7-6	8-0	8-6	8-11	9-5	9-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 158 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.158
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 3000 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span: 400.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-6	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4
225.00	1-11	2-1	2-2	2-3	2-5	2-6	2-8	2-9	2-10	2-11
250.00	2-5	2-6	2-8	2-10	3-0	3-1	3-3	3-4	3-6	3-8
275.00	2-11	3-1	3-3	3-5	3-7	3-9	3-11	4-1	4-3	4-5
300.00	3-5	3-8	3-10	4-1	4-3	4-6	4-8	4-10	5-1	5-3
325.00	4-1	4-4	4-6	4-9	5-0	5-3	5-6	5-8	5-11	6-2
350.00	4-8	5-0	5-3	5-7	5-10	6-1	6-4	6-7	6-10	7-1
375.00	5-5	5-9	6-1	6-4	6-8	7-0	7-4	7-7	7-11	8-2
400.00	6-1	6-6	6-11	7-3	7-7	7-11	8-4	8-8	9-0	9-4
425.00	6-11	7-4	7-9	8-2	8-7	9-0	9-4	9-9	10-2	10-6
450.00	7-9	8-3	8-8	9-2	9-8	10-1	10-6	10-11	11-4	11-9
475.00	8-8	9-2	9-8	10-3	10-9	11-3	11-9	12-2	12-8	13-1
500.00	9-7	10-2	10-9	11-4	11-11	12-5	13-0	13-6	14-0	14-6

Stringing Sag Table Using Final Sag							Ruling Span:	400.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6
225.00	2-2	2-3	2-5	2-6	2-8	2-9	2-10	2-11	3-1	3-2
250.00	2-8	2-10	3-0	3-1	3-3	3-5	3-6	3-8	3-9	3-11
275.00	3-3	3-5	3-7	3-9	3-11	4-1	4-3	4-5	4-7	4-9
300.00	3-10	4-1	4-3	4-6	4-8	4-11	5-1	5-3	5-5	5-7
325.00	4-6	4-9	5-0	5-3	5-6	5-9	5-11	6-2	6-4	6-7
350.00	5-3	5-6	5-10	6-1	6-4	6-8	6-11	7-2	7-5	7-8
375.00	6-0	6-4	6-8	7-0	7-4	7-7	7-11	8-2	8-6	8-9
400.00	6-10	7-3	7-7	8-0	8-4	8-8	9-0	9-4	9-8	10-0
425.00	7-9	8-2	8-7	9-0	9-5	9-9	10-2	10-6	10-11	11-3
450.00	8-8	9-2	9-8	10-1	10-6	11-0	11-5	11-10	12-3	12-7
475.00	9-8	10-2	10-9	11-3	11-9	12-3	12-8	13-2	13-7	14-1
500.00	10-8	11-4	11-11	12-5	13-0	13-7	14-1	14-7	15-1	15-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 159 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.159
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 3000 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.179	23.93	999	23.91	1000*
0	0	0	0	0.785	23.55	676	23.51	677
30	0	0	0	0.785	24	664	23.97	664
40	0	0	0	0.785	24.14	660	24.11	661
50	0	0	0	0.785	24.28	656	24.25	657
60	0	0	0	0.785	24.42	653	24.38	653
70	0	0	0	0.785	24.55	649	24.52	650
80	0	0	0	0.785	24.69	646	24.65	647
90	0	0	0	0.785	24.82	642	24.79	643
100	0	0	0	0.785	24.96	639	24.92	640
110	0	0	0	0.785	25.06	636	25.05	637
120	0	0	0	0.785	25.15	634	25.15	634
130	0	0	0	0.785	25.23	632	25.23	632
167	0	0	0	0.785	25.55	625	25.55	625
212	0	0	0	0.785	25.92	616	25.92	616
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 162 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.162
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.179	37.7	999	37.67	1000*
0	0	0	0	0.785	37.32	672	37.28	673
30	0	0	0	0.785	37.76	664	37.73	665
40	0	0	0	0.785	37.9	662	37.87	663
50	0	0	0	0.785	38.04	660	38.01	660
60	0	0	0	0.785	38.18	658	38.15	658
70	0	0	0	0.785	38.32	655	38.28	656
80	0	0	0	0.785	38.46	653	38.42	654
90	0	0	0	0.785	38.59	651	38.56	651
100	0	0	0	0.785	38.73	649	38.69	649
110	0	0	0	0.785	38.84	647	38.83	647
120	0	0	0	0.785	38.92	646	38.92	646
130	0	0	0	0.785	39.01	644	39.01	644
167	0	0	0	0.785	39.33	639	39.33	639
212	0	0	0	0.785	39.72	633	39.72	633

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>163 OF 360</p> </div>	Indicates Latest Revision	Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH812.163</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 1000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-4	3-4	3-5	3-5	3-5	3-6	3-6	3-7	3-7	3-7
175.00	4-6	4-7	4-7	4-8	4-8	4-9	4-9	4-10	4-11	4-11
200.00	5-11	6-0	6-0	6-1	6-2	6-2	6-3	6-4	6-4	6-5
225.00	7-6	7-7	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2
250.00	9-3	9-4	9-5	9-6	9-7	9-8	9-9	9-10	10-0	10-1
275.00	11-2	11-3	11-5	11-6	11-7	11-9	11-10	11-11	12-1	12-2
300.00	13-3	13-5	13-7	13-8	13-10	14-0	14-1	14-3	14-4	14-6
325.00	15-7	15-9	15-11	16-1	16-3	16-5	16-7	16-8	16-10	17-0
350.00	18-1	18-4	18-6	18-8	18-10	19-0	19-2	19-5	19-7	19-9
375.00	20-10	21-0	21-3	21-5	21-8	21-10	22-1	22-3	22-6	22-8

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-4	3-4	3-5	3-5	3-5	3-6	3-6	3-7	3-7	3-7
175.00	4-6	4-7	4-7	4-8	4-8	4-9	4-10	4-10	4-11	4-11
200.00	5-11	6-0	6-0	6-1	6-2	6-3	6-3	6-4	6-5	6-5
225.00	7-6	7-7	7-8	7-9	7-9	7-10	7-11	8-0	8-1	8-2
250.00	9-3	9-4	9-5	9-6	9-7	9-9	9-10	9-11	10-0	10-1
275.00	11-2	11-4	11-5	11-6	11-8	11-9	11-10	12-0	12-1	12-2
300.00	13-4	13-5	13-7	13-9	13-10	14-0	14-2	14-3	14-5	14-6
325.00	15-8	15-10	15-11	16-1	16-3	16-5	16-7	16-9	16-11	17-0
350.00	18-2	18-4	18-6	18-8	18-11	19-1	19-3	19-5	19-7	19-9
375.00	20-10	21-1	21-3	21-6	21-8	21-11	22-1	22-4	22-6	22-8

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-11	6-0	6-0	6-0	6-1	6-1	6-2	6-2	6-2	6-3
225.00	7-6	7-7	7-7	7-8	7-8	7-9	7-9	7-10	7-10	7-11
250.00	9-3	9-4	9-5	9-5	9-6	9-7	9-7	9-8	9-8	9-9
275.00	11-3	11-4	11-4	11-5	11-6	11-7	11-7	11-8	11-9	11-10
300.00	13-5	13-5	13-6	13-7	13-8	13-9	13-10	13-11	14-0	14-1
325.00	15-9	15-10	15-11	16-0	16-1	16-2	16-3	16-4	16-5	16-6
350.00	18-3	18-4	18-5	18-7	18-8	18-9	18-10	18-11	19-1	19-2
375.00	20-11	21-1	21-2	21-4	21-5	21-6	21-8	21-9	21-11	22-0
400.00	23-10	24-0	24-1	24-3	24-5	24-6	24-8	24-9	24-11	25-1
425.00	26-11	27-1	27-3	27-5	27-7	27-8	27-10	28-0	28-2	28-4
450.00	30-2	30-5	30-7	30-9	30-11	31-1	31-3	31-5	31-7	31-9
475.00	33-8	33-10	34-1	34-3	34-5	34-8	34-10	35-0	35-3	35-5
500.00	37-4	37-7	37-9	38-0	38-2	38-5	38-8	38-10	39-1	39-3

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-11	6-0	6-0	6-1	6-1	6-1	6-2	6-2	6-3	6-3
225.00	7-6	7-7	7-7	7-8	7-8	7-9	7-9	7-10	7-10	7-11
250.00	9-4	9-4	9-5	9-5	9-6	9-7	9-7	9-8	9-9	9-9
275.00	11-3	11-4	11-5	11-5	11-6	11-7	11-8	11-8	11-9	11-10
300.00	13-5	13-6	13-7	13-8	13-8	13-9	13-10	13-11	14-0	14-1
325.00	15-9	15-10	15-11	16-0	16-1	16-2	16-3	16-4	16-5	16-6
350.00	18-3	18-4	18-6	18-7	18-8	18-9	18-11	19-0	19-1	19-2
375.00	21-0	21-1	21-2	21-4	21-5	21-7	21-8	21-10	21-11	22-0
400.00	23-10	24-0	24-2	24-3	24-5	24-7	24-8	24-10	24-11	25-1
425.00	26-11	27-1	27-3	27-5	27-7	27-9	27-11	28-0	28-2	28-4
450.00	30-3	30-5	30-7	30-9	30-11	31-1	31-3	31-6	31-8	31-9
475.00	33-9	33-11	34-1	34-4	34-6	34-8	34-11	35-1	35-3	35-5
500.00	37-5	37-7	37-10	38-0	38-3	38-6	38-8	38-11	39-1	39-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>167 OF 360</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH812.167
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	9-4	9-5	9-5	9-5	9-6	9-6	9-7	9-7	9-7	9-8
275.00	11-4	11-4	11-5	11-5	11-6	11-6	11-7	11-7	11-8	11-8
300.00	13-6	13-6	13-7	13-7	13-8	13-9	13-9	13-10	13-10	13-11
325.00	15-10	15-10	15-11	16-0	16-1	16-1	16-2	16-3	16-3	16-4
350.00	18-4	18-5	18-6	18-7	18-7	18-8	18-9	18-10	18-11	18-11
375.00	21-1	21-2	21-3	21-4	21-5	21-6	21-6	21-7	21-8	21-9
400.00	24-0	24-1	24-2	24-3	24-4	24-5	24-6	24-7	24-8	24-9
425.00	27-1	27-2	27-4	27-5	27-6	27-7	27-8	27-10	27-11	28-0
450.00	30-5	30-6	30-8	30-9	30-10	31-0	31-1	31-2	31-4	31-5
475.00	33-11	34-0	34-2	34-3	34-5	34-6	34-8	34-9	34-11	35-0
500.00	37-7	37-9	37-10	38-0	38-2	38-3	38-5	38-7	38-8	38-10
525.00	41-6	41-8	41-9	41-11	42-1	42-3	42-5	42-6	42-8	42-10
550.00	45-7	45-9	45-11	46-1	46-3	46-5	46-7	46-9	46-11	47-1
575.00	49-10	50-0	50-2	50-5	50-7	50-9	50-11	51-1	51-4	51-6
600.00	54-4	54-6	54-9	54-11	55-1	55-4	55-6	55-9	55-11	56-1
625.00	59-0	59-2	59-5	59-8	59-10	60-1	60-4	60-6	60-9	60-11

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	9-4	9-5	9-5	9-5	9-6	9-6	9-7	9-7	9-8	9-8
275.00	11-4	11-4	11-5	11-5	11-6	11-6	11-7	11-7	11-8	11-8
300.00	13-6	13-6	13-7	13-8	13-8	13-9	13-9	13-10	13-10	13-11
325.00	15-10	15-11	15-11	16-0	16-1	16-1	16-2	16-3	16-3	16-4
350.00	18-4	18-5	18-6	18-7	18-8	18-8	18-9	18-10	18-11	18-11
375.00	21-1	21-2	21-3	21-4	21-5	21-6	21-7	21-8	21-9	21-9
400.00	24-0	24-1	24-2	24-3	24-4	24-5	24-7	24-8	24-9	24-9
425.00	27-2	27-3	27-4	27-5	27-6	27-8	27-9	27-10	27-11	28-0
450.00	30-5	30-7	30-8	30-9	30-11	31-0	31-1	31-3	31-4	31-5
475.00	33-11	34-1	34-2	34-4	34-5	34-7	34-8	34-10	34-11	35-0
500.00	37-8	37-9	37-11	38-1	38-2	38-4	38-5	38-7	38-9	38-10
525.00	41-6	41-8	41-10	42-0	42-2	42-3	42-5	42-7	42-9	42-10
550.00	45-7	45-9	45-11	46-1	46-3	46-5	46-7	46-9	46-11	47-1
575.00	49-11	50-1	50-3	50-5	50-7	50-10	51-0	51-2	51-4	51-6
600.00	54-4	54-7	54-9	55-0	55-2	55-4	55-7	55-9	56-0	56-1
625.00	59-0	59-3	59-6	59-8	59-11	60-2	60-4	60-7	60-9	60-11

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[illegible]

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.179	24.92	1493	24.8	1500*
0	0	0	0	0.785	24.34	1017	24.21	1023
30	0	0	0	0.785	24.97	992	24.83	998
40	0	0	0	0.785	25.17	984	25.03	990
50	0	0	0	0.785	25.38	977	25.24	982
60	0	0	0	0.785	25.58	969	25.44	974
70	0	0	0	0.785	25.78	962	25.64	967
80	0	0	0	0.785	25.98	954	25.84	960
90	0	0	0	0.785	26.18	947	26.03	953
100	0	0	0	0.785	26.38	940	26.23	946
110	0	0	0	0.785	26.57	934	26.42	939
120	0	0	0	0.785	26.74	928	26.62	932
130	0	0	0	0.785	26.86	924	26.81	926
167	0	0	0	0.785	27.32	909	27.32	909
212	0	0	0	0.785	27.86	891	27.86	891
* Design Condition								

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>171 OF 360</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH812.171
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-6	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-1
100.00	0-10	1-0	1-2	1-4	1-5	1-7	1-8	1-9	1-11	1-11
125.00	1-4	1-7	1-10	2-0	2-3	2-5	2-7	2-9	2-11	3-1
150.00	1-11	2-3	2-7	2-11	3-3	3-6	3-9	4-0	4-3	4-5
175.00	2-7	3-1	3-6	4-0	4-5	4-9	5-2	5-6	5-10	6-0
200.00	3-5	4-0	4-7	5-2	5-9	6-3	6-8	7-2	7-7	7-10

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-1
100.00	0-11	1-0	1-2	1-4	1-6	1-7	1-8	1-10	1-11	1-11
125.00	1-4	1-7	1-10	2-1	2-3	2-6	2-8	2-10	2-11	3-1
150.00	2-0	2-4	2-8	3-0	3-4	3-7	3-10	4-1	4-3	4-5
175.00	2-8	3-2	3-8	4-1	4-6	4-10	5-3	5-7	5-10	6-0
200.00	3-6	4-2	4-9	5-4	5-10	6-4	6-10	7-3	7-7	7-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 172 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.172
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-3	1-3	1-4
125.00	1-6	1-7	1-7	1-8	1-9	1-10	1-11	1-11	2-0	2-1
150.00	2-1	2-3	2-4	2-5	2-6	2-8	2-9	2-10	2-11	3-0
175.00	2-11	3-0	3-2	3-4	3-5	3-7	3-8	3-10	3-11	4-1
200.00	3-9	4-0	4-2	4-4	4-6	4-8	4-10	5-0	5-2	5-4
225.00	4-9	5-0	5-3	5-6	5-8	5-11	6-2	6-4	6-6	6-9
250.00	5-11	6-2	6-6	6-9	7-1	7-4	7-7	7-10	8-1	8-4

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4
125.00	1-6	1-7	1-8	1-9	1-10	1-10	1-11	2-0	2-1	2-1
150.00	2-2	2-3	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0
175.00	2-11	3-1	3-3	3-5	3-6	3-8	3-9	3-11	4-0	4-1
200.00	3-10	4-1	4-3	4-5	4-7	4-9	4-11	5-1	5-3	5-4
225.00	4-11	5-2	5-4	5-7	5-10	6-0	6-3	6-5	6-8	6-9
250.00	6-0	6-4	6-8	6-11	7-2	7-5	7-9	8-0	8-2	8-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 173 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.173
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-2	2-3	2-3	2-4	2-4	2-5	2-6	2-6	2-7	2-7
175.00	2-11	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-6	3-6
200.00	3-10	3-11	4-0	4-2	4-3	4-4	4-5	4-5	4-6	4-7
225.00	4-11	5-0	5-1	5-3	5-4	5-5	5-6	5-8	5-9	5-10
250.00	6-0	6-2	6-4	6-5	6-7	6-9	6-10	7-0	7-1	7-3
275.00	7-4	7-6	7-8	7-10	8-0	8-2	8-3	8-5	8-7	8-9
300.00	8-8	8-11	9-1	9-4	9-6	9-8	9-10	10-0	10-3	10-5
325.00	10-3	10-5	10-8	10-11	11-2	11-4	11-7	11-9	12-0	12-2
350.00	11-10	12-1	12-5	12-8	12-11	13-2	13-5	13-8	13-11	14-2
375.00	13-7	13-11	14-3	14-6	14-10	15-1	15-5	15-8	16-0	16-3

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-2	2-3	2-4	2-4	2-5	2-5	2-6	2-6	2-7	2-7
175.00	3-0	3-1	3-2	3-2	3-3	3-4	3-5	3-5	3-6	3-7
200.00	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
225.00	4-11	5-1	5-2	5-4	5-5	5-6	5-7	5-9	5-10	5-11
250.00	6-1	6-3	6-5	6-6	6-8	6-10	6-11	7-1	7-2	7-4
275.00	7-5	7-7	7-9	7-11	8-1	8-3	8-5	8-6	8-8	8-10
300.00	8-10	9-0	9-3	9-5	9-7	9-10	10-0	10-2	10-4	10-6
325.00	10-4	10-7	10-10	11-1	11-3	11-6	11-9	11-11	12-2	12-4
350.00	12-0	12-3	12-7	12-10	13-1	13-4	13-7	13-10	14-1	14-4
375.00	13-9	14-1	14-5	14-9	15-0	15-4	15-7	15-11	16-2	16-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 174 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.174
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-11	3-11	4-0	4-1	4-1	4-2	4-2	4-3	4-4	4-4
225.00	4-11	5-0	5-1	5-2	5-2	5-3	5-4	5-5	5-5	5-6
250.00	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-9	6-9
275.00	7-5	7-6	7-7	7-8	7-9	7-10	7-11	8-0	8-2	8-3
300.00	8-9	8-11	9-0	9-2	9-3	9-4	9-6	9-7	9-8	9-9
325.00	10-4	10-5	10-7	10-9	10-10	11-0	11-1	11-3	11-4	11-6
350.00	12-0	12-2	12-3	12-5	12-7	12-9	12-11	13-0	13-2	13-4
375.00	13-9	13-11	14-1	14-3	14-5	14-7	14-9	15-0	15-2	15-3
400.00	15-8	15-10	16-1	16-3	16-5	16-8	16-10	17-0	17-3	17-5
425.00	17-8	17-11	18-1	18-4	18-7	18-9	19-0	19-3	19-5	19-8
450.00	19-10	20-1	20-4	20-7	20-10	21-1	21-4	21-7	21-10	22-0
475.00	22-1	22-4	22-8	22-11	23-3	23-6	23-9	24-0	24-4	24-7
500.00	24-6	24-9	25-1	25-5	25-9	26-0	26-4	26-8	26-11	27-3

Stringing Sag Table Using Final Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-11	4-0	4-0	4-1	4-2	4-2	4-3	4-3	4-4	4-5
225.00	5-0	5-1	5-1	5-2	5-3	5-4	5-4	5-5	5-6	5-6
250.00	6-2	6-3	6-4	6-5	6-6	6-7	6-7	6-8	6-9	6-10
275.00	7-5	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3
300.00	8-10	9-0	9-1	9-2	9-4	9-5	9-6	9-8	9-9	9-10
325.00	10-5	10-6	10-8	10-10	10-11	11-1	11-2	11-4	11-5	11-7
350.00	12-1	12-3	12-5	12-6	12-8	12-10	13-0	13-2	13-3	13-5
375.00	13-10	14-0	14-3	14-5	14-7	14-9	14-11	15-1	15-3	15-5
400.00	15-9	16-0	16-2	16-5	16-7	16-9	17-0	17-2	17-4	17-7
425.00	17-10	18-0	18-3	18-6	18-9	18-11	19-2	19-5	19-7	19-10
450.00	20-0	20-3	20-6	20-9	21-0	21-3	21-6	21-9	22-0	22-3
475.00	22-3	22-7	22-10	23-1	23-5	23-8	23-11	24-3	24-6	24-9
500.00	24-8	25-0	25-4	25-8	25-11	26-3	26-7	26-10	27-2	27-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 175 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.175
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 1500 LBS					

* Design Condition

* Design Condition

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 178 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.178
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.179	18.77	1973	18.52	2000*
0	0	0	0	0.785	17.95	1374	17.66	1396
30	0	0	0	0.785	18.77	1314	18.48	1335
40	0	0	0	0.785	19.04	1296	18.75	1316
50	0	0	0	0.785	19.3	1278	19.01	1298
60	0	0	0	0.785	19.56	1262	19.27	1281
70	0	0	0	0.785	19.82	1245	19.53	1264
80	0	0	0	0.785	20.08	1230	19.78	1248
90	0	0	0	0.785	20.33	1215	20.03	1232
100	0	0	0	0.785	20.58	1200	20.28	1217
110	0	0	0	0.785	20.82	1186	20.53	1203
120	0	0	0	0.785	21.07	1173	20.77	1189
130	0	0	0	0.785	21.26	1162	21.01	1176
167	0	0	0	0.785	21.82	1133	21.82	1133
212	0	0	0	0.785	22.47	1100	22.47	1100
* Design Condition								

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET
179 OF 360

Indicates Latest Revision

Completely Revised



New Page

Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.179

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-2
125.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-9
150.00	1-6	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-5	2-6
175.00	2-1	2-3	2-5	2-7	2-9	2-11	3-0	3-2	3-4	3-5
200.00	2-8	2-11	3-2	3-4	3-7	3-9	4-0	4-2	4-4	4-6
225.00	3-5	3-8	4-0	4-3	4-6	4-9	5-0	5-3	5-6	5-8
250.00	4-2	4-7	4-11	5-3	5-7	5-11	6-2	6-6	6-9	7-1

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2
125.00	1-1	1-2	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-10
150.00	1-7	1-9	1-10	2-0	2-1	2-3	2-4	2-5	2-6	2-7
175.00	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-5	3-7
200.00	2-10	3-1	3-4	3-6	3-9	3-11	4-2	4-4	4-6	4-8
225.00	3-7	3-11	4-2	4-6	4-9	5-0	5-3	5-5	5-8	5-10
250.00	4-6	4-10	5-2	5-6	5-10	6-2	6-5	6-9	7-0	7-3

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 181 OF 360											OH812.181
		Indicates Latest Revision			Completely Revised X		New Page		Information Removed		
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-7	1-8	1-9	1-9	1-10	1-11	1-11	2-0	2-1	2-1
175.00	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-10
200.00	2-10	2-11	3-1	3-2	3-3	3-4	3-6	3-7	3-8	3-9
225.00	3-7	3-9	3-10	4-0	4-2	4-3	4-5	4-6	4-8	4-9
250.00	4-5	4-7	4-9	4-11	5-1	5-3	5-5	5-7	5-9	5-10
275.00	5-4	5-7	5-9	6-0	6-2	6-4	6-7	6-9	6-11	7-1
300.00	6-4	6-7	6-10	7-1	7-4	7-7	7-10	8-0	8-3	8-5
325.00	7-5	7-9	8-1	8-4	8-7	8-11	9-2	9-5	9-8	9-11
350.00	8-8	9-0	9-4	9-8	10-0	10-4	10-7	10-11	11-3	11-6
375.00	9-11	10-4	10-9	11-1	11-6	11-10	12-2	12-6	12-11	13-2

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-8	1-9	1-9	1-10	1-11	1-11	2-0	2-1	2-1	2-2
175.00	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-11
200.00	2-11	3-0	3-2	3-3	3-4	3-6	3-7	3-8	3-9	3-10
225.00	3-8	3-10	4-0	4-2	4-3	4-5	4-6	4-8	4-9	4-11
250.00	4-7	4-9	4-11	5-1	5-3	5-5	5-7	5-9	5-10	6-0
275.00	5-6	5-9	6-0	6-2	6-4	6-7	6-9	6-11	7-1	7-3
300.00	6-7	6-10	7-1	7-4	7-7	7-10	8-0	8-3	8-6	8-8
325.00	7-9	8-0	8-4	8-7	8-11	9-2	9-5	9-8	9-11	10-2
350.00	9-0	9-4	9-8	10-0	10-4	10-7	10-11	11-3	11-6	11-10
375.00	10-4	10-8	11-1	11-6	11-10	12-2	12-7	12-11	13-3	13-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 182 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.182
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-11	2-11	3-0	3-1	3-2	3-2	3-3	3-4	3-5	3-5
225.00	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-2	4-3	4-4
250.00	4-6	4-7	4-8	4-10	4-11	5-0	5-1	5-2	5-3	5-4
275.00	5-5	5-7	5-8	5-10	5-11	6-1	6-2	6-3	6-5	6-6
300.00	6-6	6-8	6-9	6-11	7-1	7-2	7-4	7-6	7-7	7-9
325.00	7-7	7-9	7-11	8-1	8-3	8-5	8-7	8-9	8-11	9-1
350.00	8-10	9-0	9-3	9-5	9-7	9-10	10-0	10-2	10-4	10-6
375.00	10-2	10-4	10-7	10-10	11-0	11-3	11-6	11-8	11-11	12-1
400.00	11-6	11-9	12-1	12-4	12-7	12-10	13-1	13-4	13-6	13-9
425.00	13-0	13-4	13-7	13-11	14-2	14-6	14-9	15-0	15-3	15-6
450.00	14-7	14-11	15-3	15-7	15-11	16-3	16-6	16-10	17-2	17-5
475.00	16-3	16-8	17-0	17-4	17-9	18-1	18-5	18-9	19-1	19-5
500.00	18-0	18-5	18-10	19-3	19-8	20-0	20-5	20-9	21-2	21-6

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-11	3-0	3-1	3-2	3-2	3-3	3-4	3-5	3-5	3-6
225.00	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-3	4-4	4-5
250.00	4-7	4-9	4-10	4-11	5-0	5-1	5-2	5-4	5-5	5-6
275.00	5-7	5-8	5-10	5-11	6-1	6-2	6-4	6-5	6-6	6-8
300.00	6-8	6-9	6-11	7-1	7-3	7-4	7-6	7-7	7-9	7-11
325.00	7-9	8-0	8-2	8-4	8-6	8-8	8-9	8-11	9-1	9-3
350.00	9-0	9-3	9-5	9-8	9-10	10-0	10-2	10-5	10-7	10-9
375.00	10-4	10-7	10-10	11-1	11-3	11-6	11-8	11-11	12-2	12-4
400.00	11-10	12-1	12-4	12-7	12-10	13-1	13-4	13-7	13-10	14-0
425.00	13-4	13-7	13-11	14-2	14-6	14-9	15-1	15-4	15-7	15-10
450.00	14-11	15-3	15-7	15-11	16-3	16-7	16-10	17-2	17-6	17-9
475.00	16-8	17-0	17-5	17-9	18-1	18-5	18-10	19-2	19-6	19-10
500.00	18-5	18-10	19-3	19-8	20-1	20-5	20-10	21-3	21-7	21-11

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Span =		300		ft				
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.179	5.6	2371	5.31	2500*
0	0	0	0	0.785	4.62	1915	4.26	2074
30	0	0	0	0.785	5.54	1596	5.18	1708
40	0	0	0	0.785	5.83	1517	5.47	1617
50	0	0	0	0.785	6.11	1448	5.75	1538
60	0	0	0	0.785	6.38	1387	6.03	1468
70	0	0	0	0.785	6.64	1332	6.29	1406
80	0	0	0	0.785	6.9	1283	6.55	1350
90	0	0	0	0.785	7.15	1239	6.81	1300
100	0	0	0	0.785	7.39	1198	7.05	1255
110	0	0	0	0.785	7.62	1162	7.29	1214
120	0	0	0	0.785	7.81	1134	7.53	1176
130	0	0	0	0.785	7.94	1115	7.76	1142
167	0	0	0	0.785	8.44	1050	8.44	1050
212	0	0	0	0.785	9	985	9	985
* Design Condition								

Span = 400 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.179	9.81	2409	9.45	2500*
0	0	0	0	0.785	8.76	1795	8.33	1889
30	0	0	0	0.785	9.74	1615	9.31	1691
40	0	0	0	0.785	10.05	1566	9.62	1636
50	0	0	0	0.785	10.36	1520	9.93	1586
60	0	0	0	0.785	10.65	1478	10.23	1539
70	0	0	0	0.785	10.94	1439	10.52	1497
80	0	0	0	0.785	11.22	1403	10.8	1457
90	0	0	0	0.785	11.5	1370	11.09	1421
100	0	0	0	0.785	11.77	1338	11.36	1386
110	0	0	0	0.785	12.04	1309	11.63	1354
120	0	0	0	0.785	12.3	1281	11.9	1324
130	0	0	0	0.785	12.49	1262	12.16	1296
167	0	0	0	0.785	13.07	1206	13.07	1206
212	0	0	0	0.785	13.73	1149	13.73	1149

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 186 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.186
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.179	15.19	2434	14.79	2500*
0	0	0	0	0.785	14.11	1744	13.63	1805
30	0	0	0	0.785	15.12	1629	14.64	1682
40	0	0	0	0.785	15.44	1595	14.96	1646
50	0	0	0	0.785	15.75	1563	15.28	1612
60	0	0	0	0.785	16.07	1533	15.59	1579
70	0	0	0	0.785	16.37	1505	15.9	1549
80	0	0	0	0.785	16.67	1478	16.2	1520
90	0	0	0	0.785	16.97	1452	16.5	1493
100	0	0	0	0.785	17.26	1428	16.8	1467
110	0	0	0	0.785	17.55	1404	17.09	1442
120	0	0	0	0.785	17.84	1382	17.38	1419
130	0	0	0	0.785	18.11	1361	17.66	1396
167	0	0	0	0.785	18.73	1317	18.67	1321
212	0	0	0	0.785	19.49	1267	19.49	1267

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>187 OF 360</div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH812.187	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-4	0-5	0-7	0-8	0-9	0-9	0-10	0-11
100.00	0-5	0-6	0-8	0-10	1-0	1-1	1-3	1-5	1-6	1-8
125.00	0-8	0-10	1-0	1-3	1-6	1-9	2-0	2-2	2-5	2-7
150.00	1-0	1-2	1-6	1-10	2-2	2-6	2-10	3-2	3-5	3-8
175.00	1-4	1-8	2-0	2-6	3-0	3-5	3-10	4-3	4-8	5-0
200.00	1-9	2-2	2-8	3-3	3-10	4-6	5-1	5-7	6-1	6-7

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11
100.00	0-6	0-7	0-9	0-11	1-1	1-3	1-4	1-6	1-7	1-8
125.00	0-9	0-11	1-2	1-5	1-8	1-11	2-1	2-4	2-5	2-7
150.00	1-1	1-4	1-8	2-1	2-5	2-9	3-1	3-4	3-6	3-8
175.00	1-5	1-10	2-3	2-9	3-3	3-9	4-2	4-7	4-10	5-0
200.00	1-10	2-5	3-0	3-8	4-3	4-10	5-5	6-0	6-3	6-7

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 188 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.188
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-3	1-4	1-4	1-5	1-6	1-7	1-8	1-8	1-9	1-10
175.00	1-8	1-9	1-10	1-11	2-1	2-2	2-3	2-4	2-5	2-6
200.00	2-2	2-4	2-5	2-7	2-8	2-10	2-11	3-0	3-2	3-3
225.00	2-9	2-11	3-1	3-3	3-5	3-6	3-8	3-10	4-0	4-1
250.00	3-5	3-7	3-10	4-0	4-2	4-4	4-7	4-9	4-11	5-1
275.00	4-1	4-4	4-7	4-10	5-1	5-3	5-6	5-9	5-11	6-2
300.00	4-11	5-2	5-6	5-9	6-0	6-4	6-7	6-10	7-1	7-4
325.00	5-9	6-1	6-5	6-9	7-1	7-5	7-8	8-0	8-3	8-7
350.00	6-8	7-1	7-5	7-10	8-2	8-7	8-11	9-3	9-7	9-11
375.00	7-7	8-1	8-7	9-0	9-5	9-10	10-3	10-8	11-0	11-5

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-4	1-5	1-5	1-6	1-7	1-8	1-9	1-9	1-10	1-11
175.00	1-9	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7
200.00	2-4	2-6	2-7	2-9	2-10	2-11	3-1	3-2	3-3	3-5
225.00	2-11	3-1	3-3	3-5	3-7	3-9	3-11	4-0	4-2	4-3
250.00	3-8	3-10	4-1	4-3	4-5	4-7	4-9	5-0	5-2	5-4
275.00	4-5	4-8	4-11	5-2	5-4	5-7	5-10	6-0	6-2	6-5
300.00	5-3	5-6	5-10	6-1	6-5	6-8	6-11	7-2	7-5	7-7
325.00	6-2	6-6	6-10	7-2	7-6	7-10	8-1	8-5	8-8	8-11
350.00	7-2	7-7	7-11	8-4	8-8	9-1	9-5	9-9	10-1	10-5
375.00	8-2	8-8	9-1	9-7	10-0	10-5	10-9	11-2	11-7	11-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>190 OF 360</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH812.190	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2500 LBS									

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 193 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH812.193
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING										
		636 - 24/7 ACSR/AW TENSION 3000 LBS										

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div>SHEET</div> <div>194 OF 360</div>	<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>								OH812.194
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS								
	DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 3000 LBS								


Span = 500 ft

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.179	12.87	2870	12.31	3000*
0	0	0	0	0.785	11.54	2130	10.86	2264
30	0	0	0	0.785	12.7	1937	12.02	2046
40	0	0	0	0.785	13.07	1882	12.39	1984
50	0	0	0	0.785	13.43	1832	12.76	1928
60	0	0	0	0.785	13.78	1785	13.12	1875
70	0	0	0	0.785	14.13	1742	13.47	1827
80	0	0	0	0.785	14.47	1701	13.81	1781
90	0	0	0	0.785	14.81	1663	14.15	1739
100	0	0	0	0.785	15.13	1627	14.49	1699
110	0	0	0	0.785	15.46	1593	14.82	1662
120	0	0	0	0.785	15.77	1561	15.14	1627
130	0	0	0	0.785	16.08	1531	15.45	1593
167	0	0	0	0.785	16.79	1467	16.58	1486
212	0	0	0	0.785	17.61	1400	17.61	1400

Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>195 OF 360</p> </div>	Indicates Latest Revision	Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH812.195</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 3000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-5	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11
125.00	0-7	0-8	0-9	0-11	1-0	1-1	1-2	1-3	1-4	1-5
150.00	0-11	1-0	1-2	1-3	1-5	1-7	1-8	1-10	1-11	2-0
175.00	1-2	1-4	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9
200.00	1-7	1-9	2-0	2-3	2-6	2-9	3-0	3-2	3-5	3-8
225.00	2-0	2-3	2-7	2-10	3-2	3-6	3-9	4-1	4-4	4-7
250.00	2-5	2-9	3-2	3-6	3-11	4-4	4-8	5-0	5-4	5-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-7	0-8	0-8	0-9	0-10	0-11	0-11	1-0
125.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6
150.00	1-0	1-2	1-4	1-5	1-7	1-9	1-10	2-0	2-1	2-2
175.00	1-5	1-7	1-9	2-0	2-2	2-4	2-6	2-8	2-10	3-0
200.00	1-10	2-1	2-4	2-7	2-10	3-1	3-3	3-6	3-9	3-10
225.00	2-4	2-7	2-11	3-3	3-7	3-11	4-2	4-5	4-8	4-11
250.00	2-10	3-3	3-8	4-0	4-5	4-9	5-2	5-6	5-10	6-1

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Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7
175.00	1-4	1-5	1-6	1-8	1-9	1-10	1-11	2-0	2-1	2-3
200.00	1-9	1-10	2-0	2-2	2-3	2-5	2-6	2-8	2-9	2-11
225.00	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8
250.00	2-8	2-11	3-1	3-4	3-7	3-9	3-11	4-2	4-4	4-6
275.00	3-3	3-6	3-9	4-0	4-3	4-6	4-9	5-0	5-3	5-5
300.00	3-10	4-2	4-6	4-10	5-1	5-5	5-8	6-0	6-3	6-6
325.00	4-6	4-11	5-3	5-8	6-0	6-4	6-8	7-0	7-4	7-7
350.00	5-3	5-8	6-1	6-6	6-11	7-4	7-9	8-1	8-6	8-10
375.00	6-0	6-6	7-0	7-6	8-0	8-5	8-11	9-4	9-9	10-2

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-1	1-2	1-3	1-4	1-5	1-6	1-6	1-7	1-8	1-9
175.00	1-6	1-7	1-8	1-10	1-11	2-0	2-1	2-2	2-3	2-4
200.00	1-11	2-1	2-3	2-4	2-6	2-7	2-9	2-10	3-0	3-1
225.00	2-5	2-7	2-10	3-0	3-2	3-4	3-5	3-7	3-9	3-11
250.00	3-0	3-3	3-5	3-8	3-10	4-1	4-3	4-5	4-8	4-10
275.00	3-8	3-11	4-2	4-5	4-8	4-11	5-2	5-5	5-7	5-10
300.00	4-4	4-8	5-0	5-3	5-7	5-10	6-2	6-5	6-8	6-11
325.00	5-1	5-6	5-10	6-2	6-7	6-11	7-3	7-6	7-10	8-2
350.00	5-11	6-4	6-9	7-2	7-7	8-0	8-4	8-9	9-1	9-5
375.00	6-9	7-3	7-9	8-3	8-9	9-2	9-7	10-0	10-5	10-10

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C						F					
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SHEET 198 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.198
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 3000 LBS					

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.698	8.55	1000	8.55	1000*
20	0	0	0	0.785	8.17	484	8.16	484
30	0	0	0	0.785	8.28	477	8.27	478
40	0	0	0	0.785	8.38	472	8.37	472
50	0	0	0	0.785	8.48	466	8.47	467
60	0	0	0	0.785	8.57	461	8.57	462
70	0	0	0	0.785	8.67	456	8.66	457
80	0	0	0	0.785	8.76	451	8.76	452
90	0	0	0	0.785	8.86	447	8.85	447
100	0	0	0	0.785	8.92	444	8.92	444
110	0	0	0	0.785	8.98	441	8.98	441
120	0	0	0	0.785	9.04	438	9.04	438
130	0	0	0	0.785	9.1	435	9.1	435
167	0	0	0	0.785	9.31	425	9.31	425
212	0	0	0	0.785	9.57	414	9.57	414

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>201 OF 360</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH812.201
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.698	55.73	1000	55.73	1000*
20	0	0	0	0.785	55.34	465	55.34	465
30	0	0	0	0.785	55.45	464	55.45	464
40	0	0	0	0.785	55.55	464	55.54	464
50	0	0	0	0.785	55.65	463	55.64	463
60	0	0	0	0.785	55.74	462	55.74	462
70	0	0	0	0.785	55.84	461	55.83	461
80	0	0	0	0.785	55.94	461	55.93	461
90	0	0	0	0.785	56.03	460	56.02	460
100	0	0	0	0.785	56.1	459	56.1	459
110	0	0	0	0.785	56.16	459	56.16	459
120	0	0	0	0.785	56.23	458	56.23	458
130	0	0	0	0.785	56.29	458	56.29	458
167	0	0	0	0.785	56.52	456	56.52	456
212	0	0	0	0.785	56.8	454	56.8	454

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>203 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH812.203</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 1000 LBS</p> </div>				

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-9	4-9	4-10	4-10	4-10	4-10	4-11	4-11	4-11	4-11
175.00	6-5	6-6	6-6	6-7	6-7	6-7	6-8	6-8	6-9	6-9
200.00	8-5	8-6	8-6	8-7	8-7	8-8	8-8	8-9	8-9	8-10
225.00	10-8	10-9	10-10	10-10	10-11	11-0	11-0	11-1	11-1	11-2
250.00	13-2	13-3	13-4	13-5	13-6	13-7	13-7	13-8	13-9	13-9
275.00	16-0	16-1	16-2	16-3	16-4	16-5	16-6	16-7	16-7	16-8
300.00	19-0	19-2	19-3	19-4	19-5	19-6	19-8	19-9	19-10	19-10
325.00	22-4	22-6	22-7	22-9	22-10	22-11	23-1	23-2	23-3	23-4
350.00	26-0	26-1	26-3	26-5	26-6	26-8	26-9	26-11	27-0	27-1
375.00	29-10	30-0	30-2	30-4	30-6	30-7	30-9	30-11	31-0	31-2

Stringing Sag Table Using Final Sag							Ruling Span:		300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-9	4-9	4-10	4-10	4-10	4-10	4-11	4-11	4-11	4-11
175.00	6-5	6-6	6-6	6-7	6-7	6-8	6-8	6-8	6-9	6-9
200.00	8-5	8-6	8-6	8-7	8-7	8-8	8-8	8-9	8-9	8-10
225.00	10-8	10-9	10-10	10-10	10-11	11-0	11-0	11-1	11-1	11-2
250.00	13-2	13-3	13-4	13-5	13-6	13-7	13-7	13-8	13-9	13-9
275.00	16-0	16-1	16-2	16-3	16-4	16-5	16-6	16-7	16-7	16-8
300.00	19-1	19-2	19-3	19-4	19-5	19-7	19-8	19-9	19-10	19-10
325.00	22-4	22-6	22-7	22-9	22-10	23-0	23-1	23-2	23-3	23-4
350.00	26-0	26-1	26-3	26-5	26-6	26-8	26-9	26-11	27-0	27-1
375.00	29-10	30-0	30-2	30-4	30-6	30-8	30-9	30-11	31-0	31-2

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SHEET 206 OF 360	Indicates Latest Revision			Completely Revised	X	New Page		Information Removed	OH812.206
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS								
	STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 1000 LBS								

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-7	8-7	8-8	8-8	8-8	8-9	8-9	8-9	8-9	8-10
225.00	10-11	10-11	10-11	11-0	11-0	11-0	11-1	11-1	11-1	11-2
250.00	13-5	13-6	13-6	13-7	13-7	13-8	13-8	13-9	13-9	13-9
275.00	16-3	16-4	16-5	16-5	16-6	16-6	16-7	16-7	16-8	16-8
300.00	19-5	19-5	19-6	19-7	19-7	19-8	19-9	19-9	19-10	19-10
325.00	22-9	22-10	22-11	23-0	23-1	23-1	23-2	23-3	23-3	23-4
350.00	26-5	26-6	26-7	26-8	26-9	26-10	26-11	27-0	27-0	27-1
375.00	30-5	30-6	30-7	30-8	30-9	30-10	30-11	31-0	31-1	31-1
400.00	34-7	34-9	34-10	34-11	35-0	35-1	35-3	35-4	35-5	35-5
425.00	39-2	39-3	39-4	39-6	39-7	39-8	39-10	39-11	40-0	40-1
450.00	43-11	44-1	44-2	44-4	44-5	44-7	44-8	44-10	44-11	45-0
475.00	49-0	49-2	49-4	49-5	49-7	49-9	49-10	50-0	50-1	50-2
500.00	54-5	54-7	54-9	54-11	55-0	55-2	55-4	55-6	55-7	55-9

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-7	8-7	8-8	8-8	8-8	8-9	8-9	8-9	8-9	8-10
225.00	10-11	10-11	10-11	11-0	11-0	11-0	11-1	11-1	11-1	11-2
250.00	13-5	13-6	13-6	13-7	13-7	13-8	13-8	13-9	13-9	13-9
275.00	16-3	16-4	16-5	16-5	16-6	16-6	16-7	16-7	16-8	16-8
300.00	19-5	19-5	19-6	19-7	19-7	19-8	19-9	19-9	19-10	19-10
325.00	22-9	22-10	22-11	23-0	23-1	23-1	23-2	23-3	23-3	23-4
350.00	26-5	26-6	26-7	26-8	26-9	26-10	26-11	27-0	27-0	27-1
375.00	30-5	30-6	30-7	30-8	30-9	30-10	30-11	31-0	31-1	31-1
400.00	34-8	34-9	34-10	34-11	35-0	35-2	35-3	35-4	35-5	35-5
425.00	39-2	39-3	39-5	39-6	39-7	39-8	39-10	39-11	40-0	40-1
450.00	43-11	44-1	44-2	44-4	44-5	44-7	44-8	44-10	44-11	45-0
475.00	49-0	49-2	49-4	49-6	49-7	49-9	49-11	50-0	50-1	50-2
500.00	54-5	54-7	54-9	54-11	55-1	55-2	55-4	55-6	55-7	55-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 207 OF 360		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH812.207
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 1000 LBS											

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.698	22.97	1498	22.95	1500*
20	0	0	0	0.785	22.35	711	22.31	712
30	0	0	0	0.785	22.5	707	22.46	708
40	0	0	0	0.785	22.65	702	22.61	703
50	0	0	0	0.785	22.79	698	22.75	699
60	0	0	0	0.785	22.94	693	22.9	695
70	0	0	0	0.785	23.08	689	23.04	691
80	0	0	0	0.785	23.23	685	23.18	686
90	0	0	0	0.785	23.37	681	23.32	682
100	0	0	0	0.785	23.51	677	23.47	678
110	0	0	0	0.785	23.63	674	23.61	674
120	0	0	0	0.785	23.72	671	23.72	671
130	0	0	0	0.785	23.81	669	23.81	669
167	0	0	0	0.785	24.14	660	24.14	660
212	0	0	0	0.785	24.54	649	24.54	649

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>210 OF 360</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH812.210
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.698	36.15	1499	36.13	1500*
20	0	0	0	0.785	35.53	704	35.49	705
30	0	0	0	0.785	35.68	702	35.64	702
40	0	0	0	0.785	35.83	699	35.79	700
50	0	0	0	0.785	35.97	696	35.93	697
60	0	0	0	0.785	36.12	693	36.08	694
70	0	0	0	0.785	36.26	691	36.22	692
80	0	0	0	0.785	36.41	688	36.36	689
90	0	0	0	0.785	36.55	685	36.51	686
100	0	0	0	0.785	36.7	683	36.65	684
110	0	0	0	0.785	36.82	681	36.79	681
120	0	0	0	0.785	36.91	679	36.91	679
130	0	0	0	0.785	37	678	37	678
167	0	0	0	0.785	37.34	672	37.34	672
212	0	0	0	0.785	37.75	665	37.75	665
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>211 OF 360</p> </div>	Indicates Latest Revision	Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH812.211</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 1500 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-3	1-4	1-4	1-4	1-5	1-5	1-6	1-6	1-7	1-7
125.00	2-0	2-0	2-1	2-2	2-2	2-3	2-4	2-4	2-5	2-6
150.00	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7
175.00	3-10	4-0	4-1	4-2	4-4	4-5	4-6	4-8	4-9	4-10
200.00	5-0	5-2	5-4	5-6	5-8	5-9	5-11	6-1	6-2	6-4
225.00	6-4	6-7	6-9	6-11	7-2	7-4	7-6	7-8	7-10	8-0
250.00	7-10	8-1	8-4	8-7	8-10	9-0	9-3	9-5	9-8	9-10

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-3	1-4	1-4	1-5	1-5	1-5	1-6	1-6	1-7	1-7
125.00	2-0	2-1	2-1	2-2	2-3	2-3	2-4	2-5	2-5	2-6
150.00	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7
175.00	3-11	4-0	4-1	4-3	4-4	4-5	4-7	4-8	4-9	4-10
200.00	5-1	5-3	5-5	5-6	5-8	5-10	5-11	6-1	6-3	6-4
225.00	6-5	6-7	6-10	7-0	7-2	7-4	7-6	7-8	7-11	8-0
250.00	7-11	8-2	8-5	8-8	8-10	9-1	9-4	9-6	9-9	9-10

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div>SHEET</div> <div>213 OF 360</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.213
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-1	3-1	3-1	3-2	3-2	3-3	3-3	3-4	3-4	3-4
175.00	4-2	4-2	4-3	4-4	4-4	4-5	4-5	4-6	4-6	4-7
200.00	5-5	5-6	5-7	5-7	5-8	5-9	5-10	5-10	5-11	6-0
225.00	6-10	6-11	7-0	7-1	7-2	7-3	7-4	7-5	7-6	7-7
250.00	8-6	8-7	8-8	8-9	8-10	9-0	9-1	9-2	9-3	9-4
275.00	10-3	10-4	10-6	10-7	10-9	10-10	11-0	11-1	11-3	11-4
300.00	12-2	12-4	12-6	12-8	12-9	12-11	13-1	13-2	13-4	13-6
325.00	14-4	14-6	14-8	14-10	15-0	15-2	15-4	15-6	15-8	15-10
350.00	16-7	16-10	17-0	17-3	17-5	17-7	17-10	18-0	18-2	18-4
375.00	19-1	19-4	19-7	19-9	20-0	20-3	20-5	20-8	20-11	21-1

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-1	3-1	3-2	3-2	3-2	3-3	3-3	3-4	3-4	3-4
175.00	4-2	4-2	4-3	4-4	4-4	4-5	4-5	4-6	4-7	4-7
200.00	5-5	5-6	5-7	5-8	5-8	5-9	5-10	5-11	5-11	6-0
225.00	6-11	7-0	7-1	7-2	7-2	7-3	7-4	7-5	7-6	7-7
250.00	8-6	8-7	8-8	8-10	8-11	9-0	9-1	9-2	9-4	9-4
275.00	10-3	10-5	10-6	10-8	10-9	10-11	11-0	11-2	11-3	11-4
300.00	12-3	12-5	12-6	12-8	12-10	13-0	13-1	13-3	13-5	13-6
325.00	14-4	14-6	14-9	14-11	15-1	15-3	15-5	15-7	15-9	15-10
350.00	16-8	16-10	17-1	17-3	17-6	17-8	17-10	18-1	18-3	18-5
375.00	19-2	19-5	19-7	19-10	20-1	20-4	20-6	20-9	20-11	21-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 214 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.214
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 1500 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					


<div style="text-align: center;"> <p>SHEET</p> <p>218 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH812.218</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 2000 LBS</p> </div>					

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.698	26.93	1994	26.85	2000*
20	0	0	0	0.785	26.03	953	25.91	957
30	0	0	0	0.785	26.23	946	26.11	950
40	0	0	0	0.785	26.42	939	26.3	943
50	0	0	0	0.785	26.62	932	26.5	936
60	0	0	0	0.785	26.81	925	26.69	930
70	0	0	0	0.785	27.01	919	26.88	923
80	0	0	0	0.785	27.2	913	27.07	917
90	0	0	0	0.785	27.39	906	27.26	911
100	0	0	0	0.785	27.58	900	27.45	905
110	0	0	0	0.785	27.76	894	27.63	899
120	0	0	0	0.785	27.91	890	27.82	893
130	0	0	0	0.785	28.03	886	28	887
167	0	0	0	0.785	28.47	873	28.47	873
212	0	0	0	0.785	28.99	858	28.99	858

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>219 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH812.219</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 2000 LBS</p> </div>				

Completely Revised

New Page

OH812.219

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag										Ruling Span: 100.0 Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11
100.00	0-5	0-6	0-8	0-9	0-11	1-1	1-3	1-4	1-6	1-7
125.00	0-8	0-10	1-0	1-3	1-6	1-8	1-11	2-2	2-4	2-6
150.00	0-11	1-2	1-5	1-9	2-1	2-5	2-9	3-1	3-5	3-8
175.00	1-3	1-7	1-11	2-5	2-10	3-4	3-9	4-2	4-7	4-11
200.00	1-8	2-0	2-6	3-2	3-9	4-4	4-11	5-6	6-0	6-6

Stringing Sag Table Using Final Sag										Ruling Span: 100.0 Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11
100.00	0-5	0-7	0-9	0-11	1-0	1-2	1-4	1-6	1-7	1-7
125.00	0-8	0-11	1-2	1-5	1-8	1-10	2-1	2-4	2-5	2-6
150.00	1-0	1-3	1-7	2-0	2-4	2-8	3-0	3-4	3-6	3-8
175.00	1-5	1-9	2-2	2-8	3-2	3-8	4-1	4-6	4-9	4-11
200.00	1-10	2-3	2-11	3-6	4-2	4-9	5-4	5-11	6-2	6-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 220 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.220
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3
125.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-10	1-11
150.00	1-10	2-0	2-1	2-2	2-4	2-5	2-6	2-7	2-8	2-9
175.00	2-6	2-8	2-10	3-0	3-2	3-3	3-5	3-7	3-8	3-10
200.00	3-4	3-6	3-9	3-11	4-1	4-3	4-6	4-8	4-10	5-0
225.00	4-2	4-5	4-9	4-11	5-2	5-5	5-8	5-10	6-1	6-3
250.00	5-2	5-6	5-10	6-1	6-5	6-8	7-0	7-3	7-6	7-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3
125.00	1-4	1-5	1-6	1-7	1-8	1-9	1-9	1-10	1-11	2-0
150.00	1-11	2-1	2-2	2-3	2-5	2-6	2-7	2-8	2-9	2-10
175.00	2-8	2-9	2-11	3-1	3-3	3-4	3-6	3-8	3-9	3-10
200.00	3-5	3-8	3-10	4-0	4-3	4-5	4-7	4-9	4-11	5-0
225.00	4-4	4-7	4-10	5-1	5-4	5-7	5-10	6-0	6-3	6-5
250.00	5-4	5-8	6-0	6-4	6-7	6-11	7-2	7-5	7-8	7-11

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Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-2	2-3	2-3	2-4	2-4	2-5	2-5	2-6	2-6	2-7
175.00	2-11	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-6	3-6
200.00	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7
225.00	4-10	5-0	5-1	5-2	5-4	5-5	5-6	5-7	5-9	5-10
250.00	6-0	6-2	6-3	6-5	6-7	6-8	6-10	6-11	7-1	7-2
275.00	7-3	7-5	7-7	7-9	7-11	8-1	8-3	8-5	8-7	8-8
300.00	8-8	8-10	9-1	9-3	9-5	9-8	9-10	10-0	10-2	10-4
325.00	10-2	10-5	10-8	10-10	11-1	11-4	11-6	11-9	11-11	12-2
350.00	11-9	12-1	12-4	12-7	12-10	13-1	13-4	13-7	13-10	14-1
375.00	13-6	13-10	14-2	14-6	14-9	15-1	15-4	15-8	15-11	16-2

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-2	2-3	2-4	2-4	2-5	2-5	2-6	2-6	2-7	2-7
175.00	3-0	3-1	3-1	3-2	3-3	3-4	3-5	3-5	3-6	3-7
200.00	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
225.00	4-11	5-1	5-2	5-3	5-5	5-6	5-7	5-8	5-9	5-11
250.00	6-1	6-3	6-4	6-6	6-8	6-9	6-11	7-0	7-2	7-3
275.00	7-4	7-6	7-9	7-10	8-0	8-2	8-4	8-6	8-8	8-10
300.00	8-9	9-0	9-2	9-4	9-7	9-9	9-11	10-1	10-4	10-6
325.00	10-4	10-6	10-9	11-0	11-3	11-5	11-8	11-11	12-1	12-4
350.00	11-11	12-3	12-6	12-9	13-0	13-3	13-6	13-9	14-0	14-3
375.00	13-9	14-0	14-4	14-8	14-11	15-3	15-6	15-10	16-1	16-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 222 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.222
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-0	4-1	4-2	4-2	4-3	4-3	4-4	4-4	4-5	4-6
225.00	5-1	5-2	5-3	5-4	5-4	5-5	5-6	5-6	5-7	5-8
250.00	6-4	6-5	6-6	6-6	6-7	6-8	6-9	6-10	6-11	7-0
275.00	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3	8-4	8-5
300.00	9-1	9-2	9-4	9-5	9-6	9-8	9-9	9-10	9-11	10-1
325.00	10-8	10-10	10-11	11-1	11-2	11-4	11-5	11-7	11-8	11-10
350.00	12-5	12-6	12-8	12-10	13-0	13-1	13-3	13-5	13-7	13-8
375.00	14-3	14-5	14-7	14-9	14-11	15-1	15-3	15-5	15-7	15-9
400.00	16-2	16-4	16-7	16-9	16-11	17-2	17-4	17-6	17-8	17-11
425.00	18-3	18-6	18-9	18-11	19-2	19-4	19-7	19-9	20-0	20-2
450.00	20-6	20-9	21-0	21-3	21-6	21-9	21-11	22-2	22-5	22-8
475.00	22-10	23-1	23-5	23-8	23-11	24-2	24-6	24-9	25-0	25-3
500.00	25-4	25-7	25-11	26-3	26-6	26-10	27-1	27-5	27-8	28-0

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-1	4-1	4-2	4-3	4-3	4-4	4-4	4-5	4-5	4-6
225.00	5-2	5-3	5-3	5-4	5-5	5-5	5-6	5-7	5-8	5-8
250.00	6-4	6-5	6-6	6-7	6-8	6-9	6-10	6-11	6-11	7-0
275.00	7-8	7-9	7-11	8-0	8-1	8-2	8-3	8-4	8-5	8-6
300.00	9-2	9-3	9-5	9-6	9-7	9-8	9-10	9-11	10-0	10-1
325.00	10-9	10-11	11-0	11-2	11-3	11-5	11-6	11-8	11-9	11-11
350.00	12-6	12-7	12-9	12-11	13-1	13-3	13-4	13-6	13-8	13-9
375.00	14-4	14-6	14-8	14-10	15-0	15-2	15-4	15-6	15-8	15-10
400.00	16-4	16-6	16-8	16-11	17-1	17-3	17-6	17-8	17-10	18-0
425.00	18-5	18-7	18-10	19-1	19-3	19-6	19-9	19-11	20-2	20-4
450.00	20-8	20-11	21-2	21-5	21-8	21-10	22-1	22-4	22-7	22-10
475.00	23-0	23-3	23-7	23-10	24-1	24-5	24-8	24-11	25-2	25-5
500.00	25-6	25-10	26-1	26-5	26-9	27-0	27-4	27-7	27-11	28-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>223 OF 360</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.223
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-6	6-6	6-7	6-8	6-8	6-9	6-9	6-10	6-10	6-11
275.00	7-10	7-11	8-0	8-0	8-1	8-2	8-2	8-3	8-4	8-4
300.00	9-4	9-5	9-6	9-7	9-8	9-8	9-9	9-10	9-11	10-0
325.00	11-0	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-7	11-8
350.00	12-9	12-10	12-11	13-0	13-1	13-2	13-4	13-5	13-6	13-7
375.00	14-7	14-9	14-10	14-11	15-1	15-2	15-3	15-5	15-6	15-7
400.00	16-8	16-9	16-11	17-0	17-2	17-3	17-5	17-6	17-7	17-9
425.00	18-9	18-11	19-1	19-3	19-4	19-6	19-8	19-9	19-11	20-0
450.00	21-1	21-3	21-5	21-7	21-8	21-10	22-0	22-2	22-4	22-6
475.00	23-6	23-8	23-10	24-0	24-2	24-4	24-6	24-8	24-11	25-1
500.00	26-0	26-3	26-5	26-7	26-10	27-0	27-2	27-5	27-7	27-9
525.00	28-9	28-11	29-2	29-4	29-7	29-9	30-0	30-2	30-5	30-7
550.00	31-6	31-9	32-0	32-3	32-6	32-8	32-11	33-2	33-5	33-7
575.00	34-6	34-9	35-0	35-3	35-6	35-9	36-0	36-3	36-6	36-9
600.00	37-7	37-10	38-1	38-5	38-8	38-11	39-3	39-6	39-9	40-1
625.00	40-9	41-1	41-4	41-8	42-0	42-3	42-7	42-11	43-2	43-6

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Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.698	3.55	2397	3.4	2500*
20	0	0	0	0.785	2.39	1643	2.17	1806
30	0	0	0	0.785	2.64	1487	2.42	1625
40	0	0	0	0.785	2.89	1362	2.66	1478
50	0	0	0	0.785	3.12	1260	2.89	1358
60	0	0	0	0.785	3.34	1176	3.12	1259
70	0	0	0	0.785	3.56	1105	3.34	1177
80	0	0	0	0.785	3.76	1045	3.55	1107
90	0	0	0	0.785	3.96	993	3.75	1048
100	0	0	0	0.785	4.15	947	3.95	996
110	0	0	0	0.785	4.3	915	4.14	951
120	0	0	0	0.785	4.4	893	4.32	911
130	0	0	0	0.785	4.51	873	4.49	875
167	0	0	0	0.785	4.89	805	4.89	805
212	0	0	0	0.785	5.31	741	5.31	741

* Design Condition

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[illegible]

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.698	21.56	2480	21.39	2500*
20	0	0	0	0.785	20.34	1214	20.1	1228
30	0	0	0	0.785	20.59	1200	20.35	1213
40	0	0	0	0.785	20.83	1186	20.6	1199
50	0	0	0	0.785	21.08	1172	20.84	1185
60	0	0	0	0.785	21.32	1159	21.08	1172
70	0	0	0	0.785	21.55	1147	21.32	1159
80	0	0	0	0.785	21.79	1134	21.55	1147
90	0	0	0	0.785	22.02	1122	21.79	1135
100	0	0	0	0.785	22.26	1111	22.02	1123
110	0	0	0	0.785	22.49	1100	22.25	1111
120	0	0	0	0.785	22.71	1089	22.47	1100
130	0	0	0	0.785	22.87	1082	22.7	1090
167	0	0	0	0.785	23.4	1058	23.4	1058
212	0	0	0	0.785	24.01	1031	24.01	1031
* Design Condition								

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>227 OF 360</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH812.227</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 2500 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0
125.00	0-10	0-11	1-0	1-2	1-3	1-4	1-5	1-6	1-6	1-7
150.00	1-3	1-4	1-6	1-8	1-9	1-11	2-0	2-1	2-3	2-4
175.00	1-8	1-10	2-0	2-3	2-5	2-7	2-9	2-10	3-0	3-2
200.00	2-2	2-5	2-8	2-11	3-1	3-4	3-7	3-9	3-11	4-2
225.00	2-9	3-1	3-4	3-8	3-11	4-3	4-6	4-9	5-0	5-3
250.00	3-5	3-9	4-2	4-6	4-11	5-3	5-7	5-10	6-2	6-6

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1
125.00	0-11	1-0	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8
150.00	1-4	1-6	1-7	1-9	1-11	2-0	2-1	2-3	2-4	2-5
175.00	1-10	2-0	2-3	2-5	2-7	2-9	2-11	3-0	3-2	3-3
200.00	2-5	2-8	2-11	3-1	3-4	3-7	3-9	4-0	4-2	4-4
225.00	3-0	3-4	3-8	3-11	4-3	4-6	4-9	5-0	5-3	5-5
250.00	3-9	4-2	4-6	4-10	5-3	5-7	5-11	6-2	6-6	6-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 229 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH812.229
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING										
		636 - 24/7 ACSR/AW TENSION 2500 LBS										

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-7	1-8	1-9	1-9	1-10	1-11	1-11	2-0	2-1	2-1
175.00	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
200.00	2-10	2-11	3-1	3-2	3-3	3-4	3-6	3-7	3-8	3-9
225.00	3-7	3-9	3-10	4-0	4-2	4-3	4-5	4-6	4-8	4-9
250.00	4-5	4-7	4-9	4-11	5-1	5-3	5-5	5-7	5-9	5-11
275.00	5-4	5-7	5-9	6-0	6-2	6-5	6-7	6-9	6-11	7-1
300.00	6-5	6-8	6-11	7-2	7-4	7-7	7-10	8-1	8-3	8-6
325.00	7-6	7-9	8-1	8-4	8-8	8-11	9-2	9-5	9-8	9-11
350.00	8-8	9-0	9-4	9-8	10-0	10-4	10-8	10-11	11-3	11-6
375.00	10-0	10-4	10-9	11-2	11-6	11-11	12-3	12-7	12-11	13-3

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-8	1-9	1-9	1-10	1-11	1-11	2-0	2-1	2-1	2-2
175.00	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-11
200.00	2-11	3-1	3-2	3-3	3-5	3-6	3-7	3-8	3-9	3-10
225.00	3-9	3-10	4-0	4-2	4-3	4-5	4-6	4-8	4-9	4-11
250.00	4-7	4-9	4-11	5-1	5-3	5-5	5-7	5-9	5-11	6-0
275.00	5-7	5-9	6-0	6-2	6-5	6-7	6-9	6-11	7-2	7-4
300.00	6-7	6-10	7-1	7-4	7-7	7-10	8-1	8-3	8-6	8-8
325.00	7-9	8-1	8-4	8-8	8-11	9-2	9-5	9-8	10-0	10-2
350.00	9-0	9-4	9-8	10-0	10-4	10-8	11-0	11-3	11-7	11-10
375.00	10-4	10-9	11-2	11-6	11-11	12-3	12-7	12-11	13-3	13-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 230 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.230
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 2500 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span:	400.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-1	3-2	3-3	3-3	3-4	3-5	3-5	3-6	3-7	3-7
225.00	3-11	4-0	4-1	4-2	4-3	4-4	4-4	4-5	4-6	4-7
250.00	4-10	4-11	5-0	5-1	5-3	5-4	5-5	5-6	5-7	5-8
275.00	5-10	6-0	6-1	6-2	6-4	6-5	6-6	6-8	6-9	6-10
300.00	6-11	7-1	7-3	7-4	7-6	7-8	7-9	7-11	8-0	8-2
325.00	8-2	8-4	8-6	8-8	8-10	9-0	9-1	9-3	9-5	9-7
350.00	9-6	9-8	9-10	10-0	10-3	10-5	10-7	10-9	10-11	11-1
375.00	10-10	11-1	11-4	11-6	11-9	11-11	12-2	12-4	12-6	12-9
400.00	12-4	12-7	12-10	13-1	13-4	13-7	13-10	14-1	14-3	14-6
425.00	14-0	14-3	14-6	14-10	15-1	15-4	15-7	15-10	16-1	16-4
450.00	15-8	16-0	16-3	16-7	16-11	17-2	17-6	17-9	18-1	18-4
475.00	17-5	17-10	18-2	18-6	18-10	19-2	19-6	19-10	20-2	20-5
500.00	19-4	19-9	20-1	20-6	20-10	21-3	21-7	22-0	22-4	22-8

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-2	3-3	3-3	3-4	3-5	3-5	3-6	3-7	3-7	3-8
225.00	4-0	4-1	4-2	4-3	4-4	4-4	4-5	4-6	4-7	4-8
250.00	4-11	5-0	5-1	5-2	5-4	5-5	5-6	5-7	5-8	5-9
275.00	5-11	6-1	6-2	6-4	6-5	6-6	6-8	6-9	6-10	6-11
300.00	7-1	7-3	7-4	7-6	7-8	7-9	7-11	8-0	8-2	8-3
325.00	8-4	8-6	8-8	8-10	9-0	9-1	9-3	9-5	9-7	9-9
350.00	9-8	9-10	10-0	10-3	10-5	10-7	10-9	10-11	11-1	11-3
375.00	11-1	11-4	11-6	11-9	11-11	12-2	12-4	12-7	12-9	12-11
400.00	12-7	12-10	13-1	13-4	13-7	13-10	14-1	14-3	14-6	14-9
425.00	14-3	14-6	14-9	15-1	15-4	15-7	15-10	16-1	16-5	16-8
450.00	15-11	16-3	16-7	16-11	17-2	17-6	17-9	18-1	18-4	18-8
475.00	17-9	18-2	18-6	18-10	19-2	19-6	19-10	20-2	20-6	20-9
500.00	19-8	20-1	20-6	20-10	21-3	21-7	22-0	22-4	22-8	23-0

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 231 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.231
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 2500 LBS									

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.698	0.83	2549	0.71	3000*
20	0	0	0	0.785	0.28	3544	0.24	4038
30	0	0	0	0.785	0.33	2940	0.28	3525
40	0	0	0	0.785	0.41	2375	0.33	3012
50	0	0	0	0.785	0.52	1878	0.39	2513
60	0	0	0	0.785	0.66	1482	0.48	2047
70	0	0	0	0.785	0.82	1197	0.6	1643
80	0	0	0	0.785	0.98	1000	0.74	1325
90	0	0	0	0.785	1.12	880	0.9	1096
100	0	0	0	0.785	1.19	827	1.05	934
110	0	0	0	0.785	1.26	780	1.2	819
120	0	0	0	0.785	1.34	734	1.34	734
130	0	0	0	0.785	1.41	695	1.41	695
167	0	0	0	0.785	1.67	589	1.67	589
212	0	0	0	0.785	1.96	503	1.96	503

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.698	3.05	2791	2.83	3000*
20	0	0	0	0.785	1.73	2269	1.48	2657
30	0	0	0	0.785	1.98	1981	1.69	2325
40	0	0	0	0.785	2.24	1754	1.92	2045
50	0	0	0	0.785	2.49	1575	2.16	1817
60	0	0	0	0.785	2.74	1432	2.41	1632
70	0	0	0	0.785	2.98	1318	2.65	1483
80	0	0	0	0.785	3.21	1224	2.88	1362
90	0	0	0	0.785	3.43	1145	3.11	1263
100	0	0	0	0.785	3.64	1079	3.33	1180
110	0	0	0	0.785	3.8	1035	3.54	1109
120	0	0	0	0.785	3.91	1006	3.75	1049
130	0	0	0	0.785	4.02	979	3.94	997
167	0	0	0	0.785	4.42	889	4.42	889
212	0	0	0	0.785	4.88	807	4.88	807

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 233 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.233
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 3000 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>234 OF 360</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH812.234
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 3000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.698	18.06	2955	17.78	3000*
20	0	0	0	0.785	16.49	1494	16.11	1529
30	0	0	0	0.785	16.79	1468	16.41	1502
40	0	0	0	0.785	17.08	1443	16.7	1475
50	0	0	0	0.785	17.37	1419	16.99	1450
60	0	0	0	0.785	17.66	1396	17.28	1426
70	0	0	0	0.785	17.94	1374	17.56	1404
80	0	0	0	0.785	18.22	1354	17.84	1382
90	0	0	0	0.785	18.5	1334	18.12	1361
100	0	0	0	0.785	18.77	1315	18.39	1341
110	0	0	0	0.785	19.03	1296	18.66	1322
120	0	0	0	0.785	19.3	1279	18.92	1304
130	0	0	0	0.785	19.53	1264	19.19	1286
167	0	0	0	0.785	20.13	1226	20.13	1226
212	0	0	0	0.785	20.83	1186	20.83	1186
* Design Condition								

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>235 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	<div style="border: 1px solid black; padding: 2px;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH812.235</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 3000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-5	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-11
125.00	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-4	1-5
150.00	0-10	0-11	1-1	1-3	1-4	1-6	1-7	1-9	1-10	2-0
175.00	1-2	1-4	1-6	1-8	1-10	2-0	2-2	2-5	2-7	2-9
200.00	1-6	1-8	1-11	2-2	2-5	2-8	2-11	3-1	3-4	3-7
225.00	1-10	2-2	2-5	2-9	3-1	3-4	3-8	3-11	4-3	4-6
250.00	2-4	2-8	3-0	3-5	3-9	4-2	4-6	4-10	5-2	5-6

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-10	0-11	0-11
125.00	0-8	0-9	0-10	1-0	1-1	1-2	1-3	1-4	1-5	1-6
150.00	1-0	1-1	1-3	1-5	1-7	1-8	1-10	1-11	2-1	2-2
175.00	1-4	1-6	1-9	1-11	2-1	2-3	2-5	2-8	2-9	2-11
200.00	1-9	2-0	2-3	2-6	2-9	3-0	3-3	3-5	3-8	3-10
225.00	2-2	2-6	2-10	3-2	3-6	3-9	4-1	4-4	4-7	4-10
250.00	2-8	3-1	3-6	3-11	4-3	4-8	5-0	5-4	5-8	5-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>237 OF 360</div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH812.237	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 3000 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span: 400.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-5	2-6	2-7	2-8	2-9	2-9	2-10	2-11	3-0	3-1
225.00	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10
250.00	3-9	3-11	4-0	4-2	4-3	4-4	4-5	4-7	4-8	4-9
275.00	4-7	4-9	4-10	5-0	5-2	5-3	5-5	5-6	5-8	5-9
300.00	5-5	5-7	5-9	5-11	6-1	6-3	6-5	6-7	6-9	6-10
325.00	6-5	6-7	6-9	7-0	7-2	7-4	7-6	7-9	7-11	8-1
350.00	7-5	7-8	7-11	8-1	8-4	8-6	8-9	8-11	9-2	9-4
375.00	8-6	8-9	9-1	9-4	9-7	9-10	10-0	10-3	10-6	10-9
400.00	9-8	10-0	10-3	10-7	10-10	11-2	11-5	11-8	11-11	12-3
425.00	10-11	11-3	11-7	11-11	12-3	12-7	12-11	13-2	13-6	13-9
450.00	12-3	12-8	13-0	13-5	13-9	14-1	14-5	14-10	15-2	15-6
475.00	13-8	14-1	14-6	14-11	15-4	15-9	16-1	16-6	16-10	17-3
500.00	15-2	15-7	16-1	16-6	17-0	17-5	17-10	18-3	18-8	19-1

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-6	2-7	2-8	2-9	2-10	2-11	2-11	3-0	3-1	3-2
225.00	3-2	3-3	3-4	3-6	3-7	3-8	3-9	3-10	3-11	4-0
250.00	3-11	4-1	4-2	4-3	4-5	4-6	4-7	4-8	4-10	4-11
275.00	4-9	4-11	5-0	5-2	5-4	5-5	5-7	5-8	5-10	5-11
300.00	5-8	5-10	6-0	6-2	6-4	6-6	6-8	6-9	6-11	7-1
325.00	6-8	6-10	7-0	7-3	7-5	7-7	7-9	7-11	8-2	8-4
350.00	7-9	7-11	8-2	8-5	8-7	8-10	9-0	9-3	9-5	9-7
375.00	8-10	9-1	9-5	9-8	9-11	10-1	10-4	10-7	10-10	11-1
400.00	10-1	10-4	10-8	11-0	11-3	11-6	11-9	12-1	12-4	12-7
425.00	11-4	11-9	12-1	12-4	12-8	13-0	13-4	13-7	13-11	14-2
450.00	12-9	13-2	13-6	13-10	14-3	14-7	14-11	15-3	15-7	15-11
475.00	14-2	14-8	15-1	15-6	15-10	16-3	16-8	17-0	17-5	17-9
500.00	15-9	16-3	16-8	17-2	17-7	18-0	18-5	18-10	19-3	19-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> SHEET 239 OF 360 </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH812.239
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 3000 LBS									

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-7	4-8	4-9
275.00	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9
300.00	5-11	6-0	6-2	6-3	6-4	6-5	6-7	6-8	6-9	6-10
325.00	7-0	7-1	7-3	7-4	7-5	7-7	7-8	7-10	7-11	8-0
350.00	8-1	8-3	8-4	8-6	8-8	8-9	8-11	9-1	9-2	9-4
375.00	9-3	9-5	9-7	9-9	9-11	10-1	10-3	10-5	10-7	10-8
400.00	10-7	10-9	10-11	11-1	11-4	11-6	11-8	11-10	12-0	12-2
425.00	11-11	12-1	12-4	12-7	12-9	12-11	13-2	13-4	13-7	13-9
450.00	13-4	13-7	13-10	14-1	14-4	14-6	14-9	15-0	15-2	15-5
475.00	14-11	15-2	15-5	15-8	15-11	16-2	16-5	16-8	16-11	17-2
500.00	16-6	16-9	17-1	17-4	17-8	17-11	18-3	18-6	18-9	19-0
525.00	18-2	18-6	18-10	19-2	19-6	19-9	20-1	20-5	20-8	21-0
550.00	19-11	20-4	20-8	21-0	21-5	21-9	22-1	22-5	22-9	23-0
575.00	21-10	22-3	22-7	23-0	23-4	23-9	24-1	24-6	24-10	25-2
600.00	23-9	24-2	24-7	25-0	25-5	25-10	26-3	26-8	27-1	27-5
625.00	25-9	26-3	26-9	27-2	27-7	28-1	28-6	28-11	29-4	29-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 240 OF 360		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH812.240
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 3000 LBS											

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.698	19.43	1000	19.43	1000*
0	0	0	0	0.785	19.11	470	19.1	470
30	0	0	0	0.785	19.45	462	19.44	462
40	0	0	0	0.785	19.54	460	19.53	460
50	0	0	0	0.785	19.64	457	19.63	458
60	0	0	0	0.785	19.74	455	19.73	455
70	0	0	0	0.785	19.83	453	19.82	453
80	0	0	0	0.785	19.93	451	19.91	451
90	0	0	0	0.785	20.02	449	20.01	449
100	0	0	0	0.785	20.08	448	20.08	448
110	0	0	0	0.785	20.14	446	20.14	446
120	0	0	0	0.785	20.2	445	20.2	445
130	0	0	0	0.785	20.26	444	20.26	444
167	0	0	0	0.785	20.48	439	20.48	439
212	0	0	0	0.785	20.75	434	20.75	434

* Design Condition

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.698	35.01	1000	35.01	1000*
0	0	0	0	0.785	34.7	466	34.69	466
30	0	0	0	0.785	35.03	462	35.02	462
40	0	0	0	0.785	35.13	461	35.12	461
50	0	0	0	0.785	35.23	460	35.22	460
60	0	0	0	0.785	35.32	458	35.31	459
70	0	0	0	0.785	35.42	457	35.41	457
80	0	0	0	0.785	35.51	456	35.5	456
90	0	0	0	0.785	35.61	455	35.6	455
100	0	0	0	0.785	35.67	454	35.67	454
110	0	0	0	0.785	35.73	453	35.73	453
120	0	0	0	0.785	35.8	453	35.8	453
130	0	0	0	0.785	35.86	452	35.86	452
167	0	0	0	0.785	36.09	449	36.09	449
212	0	0	0	0.785	36.36	446	36.36	446
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div>SHEET</div> <div>242 OF 360</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.242
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 1000 LBS					

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.698	55.73	1000	55.73	1000*
0	0	0	0	0.785	55.41	465	55.4	465
30	0	0	0	0.785	55.74	462	55.74	462
40	0	0	0	0.785	55.84	461	55.83	461
50	0	0	0	0.785	55.94	461	55.93	461
60	0	0	0	0.785	56.03	460	56.02	460
70	0	0	0	0.785	56.13	459	56.12	459
80	0	0	0	0.785	56.23	458	56.21	459
90	0	0	0	0.785	56.32	458	56.31	458
100	0	0	0	0.785	56.39	457	56.39	457
110	0	0	0	0.785	56.45	457	56.45	457
120	0	0	0	0.785	56.51	456	56.51	456
130	0	0	0	0.785	56.57	456	56.57	456
167	0	0	0	0.785	56.8	454	56.8	454
212	0	0	0	0.785	57.08	452	57.08	452
* Design Condition								

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>243 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	<input checked="" type="checkbox"/> New Page	Information Removed	<div style="text-align: center;"> <p>OH812.243</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 1000 LBS</p> </div>				

<div style="text-align: center;"> <p>SHEET</p> <p>243 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	<input checked="" type="checkbox"/> New Page	Information Removed	<div style="text-align: center;"> <p>OH812.243</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 1000 LBS</p> </div>				

<div style="text-align: center;"> <p>SHEET</p> <p>243 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	<input checked="" type="checkbox"/> New Page	Information Removed	<div style="text-align: center;"> <p>OH812.243</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 1000 LBS</p> </div>				

<div style="text-align: center;"> <p>SHEET</p> <p>243 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	<input checked="" type="checkbox"/> New Page	Information Removed	<div style="text-align: center;"> <p>OH812.243</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 1000 LBS</p> </div>				

<div style="text-align: center;"> <p>SHEET</p> <p>243 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	New Page	Information Removed	<div style="text-align: center;"> <p>OH812.243</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 1000 LBS</p> </div>				

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-1	2-2	2-2	2-2	2-2	2-3	2-3	2-3	2-4	2-4
125.00	3-4	3-4	3-5	3-5	3-5	3-6	3-6	3-7	3-7	3-7
150.00	4-9	4-10	4-10	4-11	5-0	5-0	5-1	5-1	5-2	5-2
175.00	6-6	6-7	6-8	6-8	6-9	6-10	6-11	7-0	7-0	7-1
200.00	8-5	8-7	8-8	8-9	8-10	8-11	9-0	9-1	9-2	9-3
225.00	10-9	10-10	11-0	11-1	11-2	11-4	11-5	11-7	11-8	11-8
250.00	13-3	13-5	13-7	13-8	13-10	14-0	14-2	14-3	14-5	14-6

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-1	2-2	2-2	2-2	2-3	2-3	2-3	2-3	2-4	2-4
125.00	3-4	3-4	3-5	3-5	3-5	3-6	3-6	3-7	3-7	3-7
150.00	4-9	4-10	4-10	4-11	5-0	5-0	5-1	5-2	5-2	5-2
175.00	6-6	6-7	6-8	6-8	6-9	6-10	6-11	7-0	7-0	7-1
200.00	8-6	8-7	8-8	8-9	8-10	8-11	9-1	9-2	9-2	9-3
225.00	10-9	10-10	11-0	11-1	11-3	11-4	11-5	11-7	11-8	11-8
250.00	13-3	13-5	13-7	13-9	13-10	14-0	14-2	14-3	14-5	14-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 245 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.245
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-10	4-10	4-10	4-11	4-11	4-11	4-11	5-0	5-0	5-0
175.00	6-7	6-7	6-7	6-8	6-8	6-9	6-9	6-9	6-10	6-10
200.00	8-7	8-7	8-8	8-8	8-9	8-9	8-10	8-10	8-11	8-11
225.00	10-10	10-11	11-0	11-0	11-1	11-1	11-2	11-3	11-3	11-4
250.00	13-5	13-6	13-7	13-7	13-8	13-9	13-10	13-10	13-11	14-0
275.00	16-3	16-4	16-5	16-6	16-7	16-8	16-9	16-10	16-10	16-11
300.00	19-4	19-5	19-6	19-8	19-9	19-10	19-11	20-0	20-1	20-2
325.00	22-8	22-10	22-11	23-1	23-2	23-3	23-5	23-6	23-7	23-8
350.00	26-4	26-6	26-8	26-9	26-11	27-0	27-2	27-3	27-5	27-6
375.00	30-4	30-6	30-7	30-9	30-11	31-1	31-3	31-4	31-6	31-7

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-10	4-10	4-10	4-11	4-11	4-11	5-0	5-0	5-0	5-0
175.00	6-7	6-7	6-8	6-8	6-8	6-9	6-9	6-9	6-10	6-10
200.00	8-7	8-7	8-8	8-8	8-9	8-9	8-10	8-10	8-11	8-11
225.00	10-10	10-11	11-0	11-0	11-1	11-2	11-2	11-3	11-3	11-4
250.00	13-5	13-6	13-7	13-7	13-8	13-9	13-10	13-11	13-11	14-0
275.00	16-3	16-4	16-5	16-6	16-7	16-8	16-9	16-10	16-10	16-11
300.00	19-4	19-5	19-7	19-8	19-9	19-10	19-11	20-0	20-1	20-2
325.00	22-9	22-10	23-0	23-1	23-2	23-4	23-5	23-6	23-7	23-8
350.00	26-5	26-6	26-8	26-9	26-11	27-1	27-2	27-4	27-5	27-6
375.00	30-4	30-6	30-8	30-9	30-11	31-1	31-3	31-5	31-6	31-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 246 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.246
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 1000 LBS					

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.698	5.69	1498	5.68	1500*
0	0	0	0	0.785	5.19	758	5.15	764
30	0	0	0	0.785	5.66	696	5.63	700
40	0	0	0	0.785	5.8	679	5.77	683
50	0	0	0	0.785	5.94	663	5.91	667
60	0	0	0	0.785	6.07	649	6.04	652
70	0	0	0	0.785	6.21	635	6.17	638
80	0	0	0	0.785	6.34	622	6.3	625
90	0	0	0	0.785	6.46	610	6.43	613
100	0	0	0	0.785	6.59	599	6.55	601
110	0	0	0	0.785	6.66	592	6.66	592
120	0	0	0	0.785	6.74	585	6.74	585
130	0	0	0	0.785	6.82	578	6.82	578
167	0	0	0	0.785	7.09	556	7.09	556
212	0	0	0	0.785	7.42	532	7.42	532

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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<div style="text-align: center;"> <p>SHEET</p> <p>249 OF 360</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH812.249</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 1500 LBS</p> </div>						

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.698	36.14	1499	36.13	1500*
0	0	0	0	0.785	35.65	702	35.6	703
30	0	0	0	0.785	36.11	694	36.07	694
40	0	0	0	0.785	36.26	691	36.22	692
50	0	0	0	0.785	36.4	688	36.36	689
60	0	0	0	0.785	36.55	686	36.5	686
70	0	0	0	0.785	36.69	683	36.65	684
80	0	0	0	0.785	36.83	681	36.79	681
90	0	0	0	0.785	36.97	678	36.93	679
100	0	0	0	0.785	37.12	676	37.07	676
110	0	0	0	0.785	37.23	673	37.21	674
120	0	0	0	0.785	37.33	672	37.33	672
130	0	0	0	0.785	37.42	670	37.42	670
167	0	0	0	0.785	37.75	665	37.75	665
212	0	0	0	0.785	38.16	658	38.16	658

* Design Condition

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>251 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	New Page	Information Removed	<div style="text-align: center;"> <p>OH812.251</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 1500 LBS</p> </div>				

Completely Revised



Information Removed

OH812.251

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-2	1-3
100.00	1-3	1-4	1-6	1-7	1-9	1-10	1-11	2-1	2-1	2-2
125.00	1-11	2-2	2-4	2-6	2-9	2-11	3-0	3-2	3-4	3-5
150.00	2-9	3-1	3-4	3-8	3-11	4-2	4-5	4-7	4-9	4-11
175.00	3-9	4-2	4-7	5-0	5-4	5-8	6-0	6-3	6-6	6-8
200.00	4-11	5-6	6-0	6-6	6-11	7-5	7-10	8-2	8-6	8-9

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-8	0-9	0-10	0-11	1-0	1-1	1-1	1-2	1-2	1-3
100.00	1-3	1-5	1-6	1-8	1-9	1-10	2-0	2-1	2-1	2-2
125.00	1-11	2-2	2-4	2-7	2-9	2-11	3-1	3-3	3-4	3-5
150.00	2-10	3-1	3-5	3-8	3-11	4-2	4-5	4-8	4-9	4-11
175.00	3-10	4-3	4-8	5-0	5-4	5-9	6-0	6-4	6-6	6-8
200.00	5-0	5-7	6-1	6-7	7-0	7-6	7-11	8-3	8-6	8-9

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SHEET 252 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.252
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 1500 LBS					

Ruling Span: 500.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-11	9-0	9-0	9-1	9-1	9-1	9-2	9-2	9-3	9-3
275.00	10-10	10-10	10-11	10-11	11-0	11-0	11-1	11-1	11-2	11-2
300.00	12-11	12-11	13-0	13-0	13-1	13-2	13-2	13-3	13-3	13-4
325.00	15-1	15-2	15-3	15-4	15-4	15-5	15-6	15-6	15-7	15-8
350.00	17-7	17-7	17-8	17-9	17-10	17-11	18-0	18-0	18-1	18-2
375.00	20-2	20-3	20-4	20-5	20-6	20-7	20-8	20-8	20-9	20-10
400.00	22-11	23-0	23-1	23-3	23-4	23-5	23-6	23-7	23-8	23-9
425.00	25-11	26-0	26-1	26-3	26-4	26-5	26-6	26-8	26-9	26-10
450.00	29-1	29-2	29-4	29-5	29-6	29-8	29-9	29-10	30-0	30-1
475.00	32-5	32-6	32-8	32-10	32-11	33-1	33-2	33-4	33-5	33-7
500.00	35-11	36-1	36-3	36-4	36-6	36-8	36-9	36-11	37-1	37-3
525.00	39-8	39-10	39-11	40-1	40-3	40-5	40-7	40-9	40-11	41-1
550.00	43-6	43-9	43-11	44-1	44-3	44-5	44-7	44-9	44-11	45-1
575.00	47-7	47-10	48-0	48-2	48-5	48-7	48-9	48-11	49-2	49-4
600.00	51-11	52-1	52-4	52-6	52-9	52-11	53-2	53-4	53-7	53-9
625.00	56-4	56-7	56-10	57-0	57-3	57-6	57-9	57-11	58-2	58-5

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-11	9-0	9-0	9-1	9-1	9-1	9-2	9-2	9-3	9-3
275.00	10-10	10-10	10-11	10-11	11-0	11-1	11-1	11-2	11-2	11-2
300.00	12-11	12-11	13-0	13-1	13-1	13-2	13-2	13-3	13-4	13-4
325.00	15-2	15-2	15-3	15-4	15-5	15-5	15-6	15-7	15-7	15-8
350.00	17-7	17-8	17-8	17-9	17-10	17-11	18-0	18-1	18-1	18-2
375.00	20-2	20-3	20-4	20-5	20-6	20-7	20-8	20-9	20-10	20-11
400.00	23-0	23-1	23-2	23-3	23-4	23-5	23-6	23-7	23-8	23-9
425.00	25-11	26-0	26-2	26-3	26-4	26-5	26-7	26-8	26-9	26-10
450.00	29-1	29-3	29-4	29-5	29-7	29-8	29-10	29-11	30-0	30-1
475.00	32-5	32-7	32-8	32-10	33-0	33-1	33-3	33-4	33-6	33-7
500.00	36-0	36-1	36-3	36-5	36-7	36-8	36-10	37-0	37-1	37-3
525.00	39-8	39-10	40-0	40-2	40-4	40-6	40-8	40-10	40-11	41-1
550.00	43-7	43-9	43-11	44-1	44-3	44-6	44-8	44-10	45-0	45-1
575.00	47-8	47-10	48-1	48-3	48-5	48-8	48-10	49-0	49-2	49-4
600.00	51-11	52-2	52-4	52-7	52-9	53-0	53-2	53-5	53-7	53-9
625.00	56-5	56-8	56-10	57-1	57-4	57-7	57-9	58-0	58-3	58-5

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SHEET 256 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.256
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 1500 LBS					

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B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 257 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH812.257
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS										

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>258 OF 360</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH812.258
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.698	26.92	1995	26.85	2000*
0	0	0	0	0.785	26.21	946	26.09	950
30	0	0	0	0.785	26.8	926	26.69	930
40	0	0	0	0.785	26.99	919	26.88	923
50	0	0	0	0.785	27.18	913	27.07	917
60	0	0	0	0.785	27.37	907	27.25	911
70	0	0	0	0.785	27.56	901	27.44	905
80	0	0	0	0.785	27.75	895	27.63	899
90	0	0	0	0.785	27.93	889	27.81	893
100	0	0	0	0.785	28.12	883	28	887
110	0	0	0	0.785	28.3	878	28.18	882
120	0	0	0	0.785	28.44	874	28.36	876
130	0	0	0	0.785	28.56	870	28.54	871
167	0	0	0	0.785	28.99	857	28.99	857
212	0	0	0	0.785	29.51	843	29.51	843

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>259 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	New Page	Information Removed	<div style="text-align: center;"> <p>OH812.259</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 2000 LBS</p> </div>				

Completely Revised

New Page

OH812.259

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1
100.00	0-9	0-11	1-1	1-3	1-4	1-6	1-7	1-9	1-10	1-11
125.00	1-3	1-6	1-8	1-11	2-2	2-4	2-6	2-9	2-11	3-0
150.00	1-9	2-1	2-5	2-9	3-1	3-4	3-8	3-11	4-2	4-4
175.00	2-5	2-10	3-4	3-9	4-2	4-7	5-0	5-4	5-8	5-10
200.00	3-1	3-9	4-4	4-11	5-6	6-0	6-6	6-11	7-5	7-8

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-0	1-1
100.00	0-10	1-0	1-2	1-3	1-5	1-6	1-8	1-9	1-10	1-11
125.00	1-3	1-6	1-9	2-0	2-2	2-5	2-7	2-9	2-11	3-0
150.00	1-10	2-2	2-6	2-10	3-2	3-6	3-9	4-0	4-2	4-4
175.00	2-6	3-0	3-5	3-11	4-4	4-9	5-1	5-5	5-8	5-10
200.00	3-3	3-11	4-6	5-1	5-8	6-2	6-8	7-1	7-5	7-8

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 260 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.260
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4
125.00	1-6	1-7	1-8	1-9	1-10	1-10	1-11	2-0	2-1	2-1
150.00	2-2	2-4	2-5	2-6	2-7	2-8	2-9	2-11	3-0	3-1
175.00	3-0	3-2	3-3	3-5	3-7	3-8	3-10	3-11	4-0	4-2
200.00	3-11	4-1	4-3	4-6	4-8	4-10	4-11	5-1	5-3	5-5
225.00	4-11	5-2	5-5	5-8	5-10	6-1	6-3	6-6	6-8	6-10
250.00	6-1	6-5	6-8	7-0	7-3	7-6	7-9	8-0	8-3	8-6

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-4
125.00	1-7	1-8	1-8	1-9	1-10	1-11	2-0	2-0	2-1	2-2
150.00	2-3	2-4	2-5	2-7	2-8	2-9	2-10	2-11	3-0	3-1
175.00	3-1	3-2	3-4	3-6	3-7	3-9	3-10	4-0	4-1	4-2
200.00	4-0	4-2	4-4	4-7	4-9	4-11	5-1	5-2	5-4	5-6
225.00	5-1	5-4	5-6	5-9	6-0	6-2	6-5	6-7	6-9	6-11
250.00	6-3	6-7	6-10	7-1	7-4	7-8	7-11	8-2	8-4	8-6

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 261 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH812.261
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-4	2-4	2-5	2-5	2-6	2-6	2-7	2-8	2-8	2-9
175.00	3-2	3-2	3-3	3-4	3-5	3-5	3-6	3-7	3-8	3-8
200.00	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10
225.00	5-2	5-4	5-5	5-6	5-7	5-9	5-10	5-11	6-0	6-1
250.00	6-5	6-7	6-8	6-10	6-11	7-1	7-2	7-4	7-5	7-6
275.00	7-9	7-11	8-1	8-3	8-5	8-7	8-8	8-10	9-0	9-1
300.00	9-3	9-5	9-7	9-10	10-0	10-2	10-4	10-6	10-8	10-10
325.00	10-10	11-1	11-4	11-6	11-9	11-11	12-2	12-4	12-7	12-9
350.00	12-7	12-10	13-1	13-4	13-7	13-10	14-1	14-4	14-7	14-9
375.00	14-5	14-9	15-1	15-4	15-7	15-11	16-2	16-5	16-9	17-0

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-4	2-5	2-5	2-6	2-6	2-7	2-7	2-8	2-8	2-9
175.00	3-2	3-3	3-4	3-4	3-5	3-6	3-7	3-7	3-8	3-9
200.00	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-10
225.00	5-3	5-4	5-6	5-7	5-8	5-9	5-10	6-0	6-1	6-2
250.00	6-6	6-7	6-9	6-11	7-0	7-2	7-3	7-4	7-6	7-7
275.00	7-10	8-0	8-2	8-4	8-6	8-8	8-9	8-11	9-1	9-2
300.00	9-4	9-6	9-9	9-11	10-1	10-3	10-5	10-7	10-10	10-11
325.00	11-0	11-2	11-5	11-8	11-10	12-1	12-3	12-6	12-8	12-10
350.00	12-9	13-0	13-3	13-6	13-9	14-0	14-3	14-6	14-8	14-11
375.00	14-7	14-11	15-3	15-6	15-9	16-1	16-4	16-7	16-11	17-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 262 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.262
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span:		400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-2	4-3	4-3	4-4	4-4	4-5	4-6	4-6	4-7	4-7
225.00	5-4	5-4	5-5	5-6	5-6	5-7	5-8	5-8	5-9	5-10
250.00	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-1	7-1	7-2
275.00	7-11	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8
300.00	9-5	9-6	9-8	9-9	9-10	9-11	10-1	10-2	10-3	10-4
325.00	11-1	11-2	11-4	11-5	11-7	11-8	11-10	11-11	12-0	12-2
350.00	12-10	13-0	13-1	13-3	13-5	13-7	13-8	13-10	14-0	14-1
375.00	14-9	14-11	15-1	15-3	15-5	15-7	15-9	15-10	16-0	16-2
400.00	16-9	16-11	17-2	17-4	17-6	17-8	17-11	18-1	18-3	18-5
425.00	18-11	19-2	19-4	19-7	19-9	20-0	20-2	20-5	20-7	20-10
450.00	21-3	21-6	21-8	21-11	22-2	22-5	22-8	22-11	23-1	23-4
475.00	23-8	23-11	24-2	24-6	24-9	25-0	25-3	25-6	25-9	26-0
500.00	26-3	26-6	26-10	27-1	27-5	27-8	28-0	28-3	28-7	28-10

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-3	4-3	4-4	4-4	4-5	4-5	4-6	4-6	4-7	4-7
225.00	5-4	5-5	5-5	5-6	5-7	5-8	5-8	5-9	5-10	5-10
250.00	6-7	6-8	6-9	6-10	6-10	6-11	7-0	7-1	7-2	7-3
275.00	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9
300.00	9-6	9-7	9-8	9-10	9-11	10-0	10-1	10-3	10-4	10-5
325.00	11-1	11-3	11-5	11-6	11-8	11-9	11-10	12-0	12-1	12-3
350.00	12-11	13-1	13-2	13-4	13-6	13-8	13-9	13-11	14-1	14-2
375.00	14-10	15-0	15-2	15-4	15-6	15-8	15-10	16-0	16-2	16-3
400.00	16-10	17-1	17-3	17-5	17-8	17-10	18-0	18-2	18-4	18-6
425.00	19-1	19-3	19-6	19-8	19-11	20-1	20-4	20-6	20-9	20-11
450.00	21-4	21-7	21-10	22-1	22-4	22-7	22-10	23-0	23-3	23-6
475.00	23-10	24-1	24-4	24-7	24-11	25-2	25-5	25-8	25-11	26-2
500.00	26-5	26-8	27-0	27-3	27-7	27-10	28-2	28-5	28-9	29-0

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 263 OF 360		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH812.263
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS											

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-7	6-8	6-8	6-9	6-10	6-10	6-11	6-11	7-0	7-0
275.00	8-0	8-1	8-1	8-2	8-3	8-3	8-4	8-5	8-5	8-6
300.00	9-6	9-7	9-8	9-9	9-9	9-10	9-11	10-0	10-1	10-1
325.00	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11
350.00	12-11	13-1	13-2	13-3	13-4	13-5	13-6	13-7	13-8	13-9
375.00	14-11	15-0	15-1	15-2	15-4	15-5	15-6	15-7	15-9	15-10
400.00	16-11	17-1	17-2	17-4	17-5	17-6	17-8	17-9	17-11	18-0
425.00	19-1	19-3	19-5	19-6	19-8	19-10	19-11	20-1	20-2	20-4
450.00	21-5	21-7	21-9	21-11	22-1	22-3	22-4	22-6	22-8	22-10
475.00	23-11	24-1	24-3	24-5	24-7	24-9	24-11	25-1	25-3	25-5
500.00	26-6	26-8	26-11	27-1	27-3	27-5	27-8	27-10	28-0	28-2
525.00	29-3	29-5	29-8	29-10	30-1	30-3	30-6	30-8	30-11	31-1
550.00	32-1	32-4	32-7	32-9	33-0	33-3	33-6	33-8	33-11	34-2
575.00	35-1	35-4	35-7	35-10	36-1	36-4	36-7	36-10	37-1	37-4
600.00	38-3	38-6	38-9	39-1	39-4	39-7	39-10	40-1	40-5	40-8
625.00	41-6	41-9	42-1	42-5	42-8	43-0	43-3	43-7	43-10	44-2

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-8	6-8	6-9	6-9	6-10	6-10	6-11	7-0	7-0	7-1
275.00	8-0	8-1	8-2	8-2	8-3	8-4	8-4	8-5	8-6	8-6
300.00	9-7	9-7	9-8	9-9	9-10	9-11	10-0	10-0	10-1	10-2
325.00	11-3	11-4	11-5	11-6	11-6	11-7	11-8	11-9	11-10	11-11
350.00	13-0	13-1	13-2	13-4	13-5	13-6	13-7	13-8	13-9	13-10
375.00	14-11	15-1	15-2	15-3	15-4	15-6	15-7	15-8	15-9	15-11
400.00	17-0	17-2	17-3	17-4	17-6	17-7	17-9	17-10	18-0	18-1
425.00	19-2	19-4	19-6	19-7	19-9	19-11	20-0	20-2	20-4	20-5
450.00	21-6	21-8	21-10	22-0	22-2	22-4	22-6	22-7	22-9	22-11
475.00	24-0	24-2	24-4	24-6	24-8	24-10	25-0	25-2	25-4	25-6
500.00	26-7	26-10	27-0	27-2	27-4	27-7	27-9	27-11	28-1	28-4
525.00	29-4	29-7	29-9	30-0	30-2	30-5	30-7	30-10	31-0	31-3
550.00	32-3	32-5	32-8	32-11	33-2	33-5	33-7	33-10	34-1	34-3
575.00	35-3	35-6	35-9	36-0	36-3	36-6	36-9	37-0	37-3	37-6
600.00	38-4	38-8	38-11	39-3	39-6	39-9	40-0	40-4	40-7	40-10
625.00	41-8	42-0	42-3	42-7	42-10	43-2	43-5	43-9	44-0	44-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 264 OF 360		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH812.264
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS											

* Design Condition* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>265 OF 360</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH812.265
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0
100.00	0-6	0-8	0-10	0-11	1-1	1-3	1-5	1-6	1-8	1-9
125.00	0-10	1-0	1-3	1-6	1-9	1-11	2-2	2-4	2-7	2-8
150.00	1-2	1-6	1-10	2-2	2-6	2-10	3-1	3-5	3-8	3-11
175.00	1-7	2-0	2-5	2-11	3-5	3-10	4-3	4-8	5-0	5-4
200.00	2-1	2-7	3-2	3-10	4-5	5-0	5-7	6-1	6-7	6-11

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11	1-0
100.00	0-7	0-9	0-10	1-0	1-2	1-4	1-5	1-7	1-8	1-9
125.00	0-11	1-1	1-4	1-7	1-10	2-1	2-3	2-6	2-7	2-8
150.00	1-3	1-7	1-11	2-4	2-8	3-0	3-3	3-7	3-9	3-11
175.00	1-9	2-2	2-8	3-2	3-7	4-1	4-6	4-10	5-1	5-4
200.00	2-3	2-10	3-6	4-1	4-9	5-4	5-10	6-4	6-8	6-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 268 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.268
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2500 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span:	200.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2
125.00	1-2	1-3	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-10
150.00	1-7	1-9	1-10	2-0	2-1	2-3	2-4	2-5	2-6	2-7
175.00	2-3	2-5	2-7	2-9	2-10	3-0	3-2	3-4	3-5	3-7
200.00	2-11	3-1	3-4	3-7	3-9	3-11	4-2	4-4	4-6	4-8
225.00	3-8	3-11	4-3	4-6	4-9	5-0	5-3	5-5	5-8	5-11
250.00	4-6	4-10	5-2	5-6	5-10	6-2	6-5	6-9	7-0	7-3

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2
125.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-10
150.00	1-9	1-10	2-0	2-1	2-2	2-4	2-5	2-6	2-7	2-8
175.00	2-4	2-6	2-8	2-10	3-0	3-2	3-3	3-5	3-7	3-8
200.00	3-1	3-3	3-6	3-8	3-11	4-1	4-3	4-5	4-8	4-9
225.00	3-10	4-2	4-5	4-8	4-11	5-2	5-5	5-8	5-10	6-0
250.00	4-9	5-1	5-5	5-9	6-1	6-5	6-8	7-0	7-3	7-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 269 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.269
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-3	3-4	3-5	3-5	3-6	3-7	3-7	3-8	3-9	3-9
225.00	4-2	4-3	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-9
250.00	5-1	5-2	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-11
275.00	6-2	6-4	6-5	6-6	6-8	6-9	6-10	6-11	7-1	7-2
300.00	7-4	7-6	7-8	7-9	7-11	8-0	8-2	8-3	8-5	8-6
325.00	8-8	8-10	8-11	9-1	9-3	9-5	9-7	9-8	9-10	10-0
350.00	10-0	10-3	10-5	10-7	10-9	10-11	11-1	11-3	11-5	11-7
375.00	11-6	11-9	11-11	12-2	12-4	12-6	12-9	12-11	13-1	13-4
400.00	13-1	13-4	13-7	13-10	14-0	14-3	14-6	14-8	14-11	15-2
425.00	14-10	15-1	15-4	15-7	15-10	16-1	16-4	16-7	16-10	17-1
450.00	16-7	16-11	17-2	17-6	17-9	18-1	18-4	18-7	18-11	19-2
475.00	18-6	18-10	19-2	19-6	19-10	20-2	20-5	20-9	21-1	21-4
500.00	20-6	20-10	21-3	21-7	21-11	22-4	22-8	23-0	23-4	23-8

Stringing Sag Table Using Final Sag							Ruling Span:		400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-4	3-5	3-5	3-6	3-7	3-7	3-8	3-9	3-9	3-10
225.00	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-9	4-10
250.00	5-2	5-3	5-5	5-6	5-7	5-8	5-9	5-10	5-11	6-0
275.00	6-3	6-5	6-6	6-7	6-9	6-10	6-11	7-1	7-2	7-3
300.00	7-6	7-7	7-9	7-11	8-0	8-2	8-3	8-5	8-6	8-7
325.00	8-9	8-11	9-1	9-3	9-5	9-7	9-8	9-10	10-0	10-1
350.00	10-2	10-4	10-7	10-9	10-11	11-1	11-3	11-5	11-7	11-9
375.00	11-8	11-11	12-1	12-4	12-6	12-9	12-11	13-1	13-4	13-6
400.00	13-4	13-7	13-9	14-0	14-3	14-6	14-8	14-11	15-2	15-4
425.00	15-0	15-4	15-7	15-10	16-1	16-4	16-7	16-10	17-1	17-4
450.00	16-10	17-2	17-5	17-9	18-0	18-4	18-7	18-11	19-2	19-5
475.00	18-9	19-1	19-5	19-9	20-1	20-5	20-9	21-1	21-4	21-8
500.00	20-10	21-2	21-7	21-11	22-3	22-8	23-0	23-4	23-8	24-0

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[illegible]

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.698	2.95	2879	2.83	3000*
0	0	0	0	0.785	1.86	2109	1.69	2328
30	0	0	0	0.785	2.63	1496	2.4	1637
40	0	0	0	0.785	2.87	1369	2.64	1488
50	0	0	0	0.785	3.1	1266	2.88	1366
60	0	0	0	0.785	3.33	1181	3.1	1266
70	0	0	0	0.785	3.54	1109	3.32	1183
80	0	0	0	0.785	3.75	1048	3.53	1112
90	0	0	0	0.785	3.95	996	3.74	1052
100	0	0	0	0.785	4.14	950	3.93	1000
110	0	0	0	0.785	4.29	917	4.12	954
120	0	0	0	0.785	4.39	896	4.3	914
130	0	0	0	0.785	4.49	875	4.48	878
167	0	0	0	0.785	4.87	807	4.87	807
212	0	0	0	0.785	5.3	742	5.3	742

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 273 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.273
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 3000 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.698	11.57	2946	11.36	3000*
0	0	0	0	0.785	10.31	1527	9.98	1577
30	0	0	0	0.785	11.18	1409	10.86	1450
40	0	0	0	0.785	11.46	1375	11.14	1414
50	0	0	0	0.785	11.73	1343	11.41	1381
60	0	0	0	0.785	12	1313	11.68	1349
70	0	0	0	0.785	12.26	1285	11.94	1319
80	0	0	0	0.785	12.52	1259	12.2	1292
90	0	0	0	0.785	12.77	1234	12.46	1265
100	0	0	0	0.785	13.02	1211	12.71	1241
110	0	0	0	0.785	13.27	1189	12.95	1217
120	0	0	0	0.785	13.51	1168	13.2	1195
130	0	0	0	0.785	13.66	1154	13.43	1174
167	0	0	0	0.785	14.21	1111	14.21	1111
212	0	0	0	0.785	14.83	1065	14.83	1065

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>274 OF 360</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH812.274
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 3000 LBS									

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.698	18.01	2962	17.78	3000*
0	0	0	0	0.785	16.74	1472	16.4	1502
30	0	0	0	0.785	17.61	1400	17.27	1427
40	0	0	0	0.785	17.89	1378	17.55	1404
50	0	0	0	0.785	18.17	1357	17.83	1383
60	0	0	0	0.785	18.45	1337	18.11	1362
70	0	0	0	0.785	18.72	1318	18.38	1342
80	0	0	0	0.785	18.99	1299	18.65	1323
90	0	0	0	0.785	19.25	1282	18.91	1304
100	0	0	0	0.785	19.52	1265	19.18	1287
110	0	0	0	0.785	19.77	1248	19.44	1270
120	0	0	0	0.785	20.03	1233	19.69	1254
130	0	0	0	0.785	20.24	1220	19.94	1238
167	0	0	0	0.785	20.83	1186	20.83	1186
212	0	0	0	0.785	21.51	1149	21.51	1149

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>275 OF 360</p> </div>	Indicates Latest Revision		Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH812.275</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 3000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag										Ruling Span: 100.0 Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11
100.00	0-5	0-6	0-7	0-9	0-11	1-1	1-2	1-4	1-6	1-7
125.00	0-7	0-9	0-11	1-2	1-5	1-8	1-10	2-1	2-3	2-6
150.00	0-11	1-1	1-4	1-8	2-0	2-4	2-8	3-0	3-4	3-7
175.00	1-2	1-6	1-10	2-3	2-9	3-2	3-8	4-1	4-6	4-10
200.00	1-7	1-11	2-4	2-11	3-7	4-2	4-9	5-4	5-10	6-4

Stringing Sag Table Using Final Sag										Ruling Span: 100.0 Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11
100.00	0-5	0-6	0-8	0-10	1-0	1-2	1-4	1-5	1-6	1-7
125.00	0-8	0-10	1-1	1-4	1-7	1-10	2-0	2-3	2-4	2-6
150.00	0-11	1-3	1-6	1-11	2-3	2-7	2-11	3-3	3-5	3-7
175.00	1-4	1-8	2-1	2-7	3-1	3-7	4-0	4-5	4-8	4-10
200.00	1-8	2-2	2-9	3-4	4-0	4-8	5-2	5-9	6-1	6-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 276 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.276
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 3000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0
125.00	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-6	1-6	1-7
150.00	1-3	1-4	1-6	1-7	1-9	1-10	2-0	2-1	2-3	2-4
175.00	1-8	1-10	2-0	2-2	2-5	2-7	2-8	2-10	3-0	3-2
200.00	2-2	2-5	2-8	2-11	3-1	3-4	3-6	3-9	3-11	4-1
225.00	2-9	3-0	3-4	3-8	3-11	4-2	4-6	4-9	5-0	5-3
250.00	3-4	3-9	4-2	4-6	4-10	5-2	5-6	5-10	6-2	6-5

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1
125.00	0-11	1-0	1-1	1-3	1-4	1-5	1-6	1-6	1-7	1-8
150.00	1-4	1-6	1-7	1-9	1-10	2-0	2-1	2-3	2-4	2-5
175.00	1-10	2-0	2-2	2-5	2-7	2-9	2-10	3-0	3-2	3-3
200.00	2-4	2-8	2-10	3-1	3-4	3-7	3-9	3-11	4-2	4-3
225.00	3-0	3-4	3-8	3-11	4-3	4-6	4-9	5-0	5-3	5-5
250.00	3-9	4-1	4-6	4-10	5-2	5-6	5-10	6-2	6-6	6-8

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[illegible]

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.682	31.51	1000	31.51	1000*
20	0	0	0	0.785	31.24	295	31.24	295
30	0	0	0	0.785	31.32	294	31.31	294
40	0	0	0	0.785	31.38	294	31.38	294
50	0	0	0	0.785	31.44	293	31.44	293
60	0	0	0	0.785	31.51	293	31.5	293
70	0	0	0	0.785	31.57	292	31.56	292
80	0	0	0	0.785	31.62	292	31.62	292
90	0	0	0	0.785	31.66	291	31.66	291
100	0	0	0	0.785	31.7	291	31.7	291
110	0	0	0	0.785	31.74	291	31.74	291
120	0	0	0	0.785	31.78	290	31.78	290
130	0	0	0	0.785	31.82	290	31.82	290
167	0	0	0	0.785	31.96	289	31.96	289
212	0	0	0	0.785	32.14	287	32.14	287

* Design Condition

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.682	58.22	1000	58.22	1000*
20	0	0	0	0.785	57.95	294	57.95	294
30	0	0	0	0.785	58.02	294	58.02	294
40	0	0	0	0.785	58.09	293	58.09	293
50	0	0	0	0.785	58.15	293	58.15	293
60	0	0	0	0.785	58.21	293	58.21	293
70	0	0	0	0.785	58.27	292	58.27	292
80	0	0	0	0.785	58.32	292	58.32	292
90	0	0	0	0.785	58.36	292	58.36	292
100	0	0	0	0.785	58.4	292	58.4	292
110	0	0	0	0.785	58.44	292	58.44	292
120	0	0	0	0.785	58.48	292	58.48	292
130	0	0	0	0.785	58.52	291	58.52	291
167	0	0	0	0.785	58.67	291	58.67	291
212	0	0	0	0.785	58.85	290	58.85	290

* Design Condition

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[illegible]

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.682	96.41	1000	96.41	1000*
20	0	0	0	0.785	96.15	293	96.15	293
30	0	0	0	0.785	96.22	293	96.22	293
40	0	0	0	0.785	96.29	293	96.28	293
50	0	0	0	0.785	96.35	293	96.34	293
60	0	0	0	0.785	96.41	293	96.4	293
70	0	0	0	0.785	96.47	293	96.46	293
80	0	0	0	0.785	96.52	292	96.52	292
90	0	0	0	0.785	96.56	292	96.56	292
100	0	0	0	0.785	96.6	292	96.6	292
110	0	0	0	0.785	96.64	292	96.64	292
120	0	0	0	0.785	96.68	292	96.68	292
130	0	0	0	0.785	96.72	292	96.72	292
167	0	0	0	0.785	96.86	292	96.86	292
212	0	0	0	0.785	97.04	291	97.04	291
* Design Condition								

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 283 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.283
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 1000 LBS									

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-4	3-4	3-4	3-5	3-5	3-5	3-5	3-5	3-5	3-5
125.00	5-3	5-3	5-3	5-3	5-4	5-4	5-4	5-4	5-5	5-5
150.00	7-6	7-7	7-7	7-7	7-8	7-8	7-9	7-9	7-9	7-9
175.00	10-3	10-3	10-4	10-5	10-5	10-6	10-6	10-7	10-7	10-7
200.00	13-5	13-6	13-6	13-7	13-8	13-9	13-9	13-10	13-10	13-11
225.00	17-0	17-1	17-2	17-3	17-4	17-5	17-5	17-6	17-7	17-7
250.00	21-0	21-1	21-3	21-4	21-5	21-6	21-7	21-8	21-9	21-9

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-4	3-4	3-4	3-5	3-5	3-5	3-5	3-5	3-5	3-5
125.00	5-3	5-3	5-3	5-3	5-4	5-4	5-4	5-4	5-5	5-5
150.00	7-6	7-7	7-7	7-8	7-8	7-8	7-9	7-9	7-9	7-9
175.00	10-3	10-4	10-4	10-5	10-5	10-6	10-6	10-7	10-7	10-7
200.00	13-5	13-6	13-6	13-7	13-8	13-9	13-9	13-10	13-10	13-11
225.00	17-0	17-1	17-2	17-3	17-4	17-5	17-5	17-6	17-7	17-7
250.00	21-0	21-1	21-3	21-4	21-5	21-6	21-7	21-8	21-9	21-9

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Stringing Sag Table Using Initial Sag							Ruling Span: 300.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	7-9	7-9	7-9	7-9	7-9	7-10	7-10	7-10	7-10	7-10
175.00	10-6	10-7	10-7	10-7	10-7	10-8	10-8	10-8	10-8	10-8
200.00	13-9	13-10	13-10	13-10	13-11	13-11	13-11	13-11	14-0	14-0
225.00	17-6	17-6	17-6	17-7	17-7	17-8	17-8	17-8	17-9	17-9
250.00	21-7	21-8	21-8	21-9	21-9	21-10	21-10	21-11	21-11	21-11
275.00	26-2	26-3	26-4	26-4	26-5	26-6	26-6	26-6	26-7	26-7
300.00	31-3	31-4	31-5	31-5	31-6	31-7	31-7	31-8	31-8	31-9
325.00	36-9	36-10	36-11	37-0	37-1	37-2	37-2	37-3	37-4	37-4
350.00	42-9	42-10	42-11	43-0	43-1	43-2	43-3	43-4	43-4	43-5
375.00	49-2	49-4	49-5	49-6	49-7	49-9	49-10	49-10	49-11	50-0

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	7-9	7-9	7-9	7-9	7-10	7-10	7-10	7-10	7-10	7-10
175.00	10-6	10-7	10-7	10-7	10-7	10-8	10-8	10-8	10-8	10-8
200.00	13-9	13-10	13-10	13-10	13-11	13-11	13-11	13-11	14-0	14-0
225.00	17-6	17-6	17-7	17-7	17-7	17-8	17-8	17-8	17-9	17-9
250.00	21-7	21-8	21-8	21-9	21-9	21-10	21-10	21-11	21-11	21-11
275.00	26-2	26-3	26-4	26-4	26-5	26-6	26-6	26-6	26-7	26-7
300.00	31-3	31-4	31-5	31-5	31-6	31-7	31-7	31-8	31-8	31-9
325.00	36-9	36-10	36-11	37-0	37-1	37-2	37-2	37-3	37-4	37-4
350.00	42-9	42-10	42-11	43-0	43-1	43-2	43-3	43-4	43-4	43-5
375.00	49-2	49-4	49-5	49-6	49-7	49-9	49-10	49-10	49-11	50-0

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 286 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.286
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.682	59	1500	59	1500*
20	0	0	0	0.785	58.57	442	58.55	442
30	0	0	0	0.785	58.67	441	58.66	441
40	0	0	0	0.785	58.76	441	58.75	441
50	0	0	0	0.785	58.85	440	58.84	440
60	0	0	0	0.785	58.95	439	58.93	439
70	0	0	0	0.785	59.04	439	59.02	439
80	0	0	0	0.785	59.13	438	59.12	438
90	0	0	0	0.785	59.21	438	59.21	438
100	0	0	0	0.785	59.27	437	59.27	437
110	0	0	0	0.785	59.33	437	59.33	437
120	0	0	0	0.785	59.39	436	59.39	436
130	0	0	0	0.785	59.45	436	59.45	436
167	0	0	0	0.785	59.67	435	59.67	435
212	0	0	0	0.785	59.94	433	59.94	433
* Design Condition								

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>291 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	New Page	Information Removed	<div style="text-align: center;"> <p>OH812.291</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 1500 LBS</p> </div>				

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-4	1-5	1-5
100.00	1-9	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-6
125.00	2-9	2-11	3-1	3-3	3-5	3-6	3-8	3-10	3-11	4-0
150.00	4-0	4-3	4-5	4-8	4-11	5-1	5-3	5-6	5-7	5-8
175.00	5-5	5-9	6-1	6-4	6-8	6-11	7-2	7-5	7-7	7-9
200.00	7-1	7-6	7-11	8-4	8-8	9-1	9-5	9-9	9-11	10-2

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-4	1-5	1-5
100.00	1-9	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-6
125.00	2-9	2-11	3-1	3-3	3-5	3-7	3-8	3-10	3-11	4-0
150.00	4-0	4-3	4-6	4-8	4-11	5-1	5-4	5-6	5-7	5-8
175.00	5-5	5-10	6-1	6-5	6-8	7-0	7-3	7-5	7-7	7-9
200.00	7-1	7-7	8-0	8-4	8-9	9-1	9-6	9-9	9-11	10-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 292 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.292
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-2	2-2	2-2	2-3	2-3	2-3	2-3	2-4	2-4	2-4
125.00	3-4	3-5	3-5	3-5	3-6	3-6	3-7	3-7	3-7	3-8
150.00	4-10	4-10	4-11	5-0	5-0	5-1	5-2	5-2	5-3	5-3
175.00	6-7	6-8	6-8	6-9	6-10	6-11	7-0	7-1	7-1	7-2
200.00	8-7	8-8	8-9	8-10	8-11	9-0	9-2	9-3	9-3	9-4
225.00	10-10	11-0	11-1	11-3	11-4	11-5	11-7	11-8	11-9	11-10
250.00	13-5	13-7	13-8	13-10	14-0	14-2	14-3	14-5	14-6	14-7

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-2	2-2	2-2	2-3	2-3	2-3	2-3	2-4	2-4	2-4
125.00	3-4	3-5	3-5	3-5	3-6	3-6	3-7	3-7	3-7	3-8
150.00	4-10	4-10	4-11	5-0	5-0	5-1	5-2	5-2	5-3	5-3
175.00	6-7	6-8	6-9	6-9	6-10	6-11	7-0	7-1	7-1	7-2
200.00	8-7	8-8	8-9	8-10	8-11	9-1	9-2	9-3	9-3	9-4
225.00	10-10	11-0	11-1	11-3	11-4	11-6	11-7	11-8	11-9	11-10
250.00	13-5	13-7	13-9	13-10	14-0	14-2	14-4	14-5	14-6	14-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 293 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.293
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-0	5-0	5-0	5-1	5-1	5-1	5-2	5-2	5-2	5-2
175.00	6-10	6-10	6-10	6-11	6-11	6-11	7-0	7-0	7-0	7-1
200.00	8-11	8-11	9-0	9-0	9-1	9-1	9-2	9-2	9-2	9-3
225.00	11-3	11-4	11-4	11-5	11-5	11-6	11-7	11-7	11-8	11-8
250.00	13-11	14-0	14-0	14-1	14-2	14-3	14-3	14-4	14-5	14-5
275.00	16-10	16-11	17-0	17-1	17-2	17-3	17-4	17-4	17-5	17-6
300.00	20-0	20-2	20-3	20-4	20-5	20-6	20-7	20-8	20-9	20-10
325.00	23-6	23-8	23-9	23-11	24-0	24-1	24-2	24-4	24-5	24-6
350.00	27-4	27-6	27-7	27-9	27-10	28-0	28-1	28-3	28-4	28-5
375.00	31-5	31-7	31-9	31-10	32-0	32-2	32-4	32-5	32-7	32-8

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-0	5-0	5-0	5-1	5-1	5-1	5-2	5-2	5-2	5-2
175.00	6-10	6-10	6-10	6-11	6-11	6-11	7-0	7-0	7-0	7-1
200.00	8-11	8-11	9-0	9-0	9-1	9-1	9-2	9-2	9-2	9-3
225.00	11-3	11-4	11-4	11-5	11-6	11-6	11-7	11-7	11-8	11-8
250.00	13-11	14-0	14-0	14-1	14-2	14-3	14-4	14-4	14-5	14-5
275.00	16-10	16-11	17-0	17-1	17-2	17-3	17-4	17-5	17-5	17-6
300.00	20-1	20-2	20-3	20-4	20-5	20-6	20-7	20-8	20-9	20-10
325.00	23-7	23-8	23-9	23-11	24-0	24-1	24-3	24-4	24-5	24-6
350.00	27-4	27-6	27-7	27-9	27-11	28-0	28-2	28-3	28-4	28-5
375.00	31-5	31-7	31-9	31-11	32-0	32-2	32-4	32-6	32-7	32-8

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C						F						
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 294 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH812.294
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 1500 LBS										

Stringing Sag Table Using Initial Sag							Ruling Span: 400.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	9-1	9-1	9-1	9-2	9-2	9-2	9-2	9-3	9-3	9-3
225.00	11-6	11-6	11-6	11-7	11-7	11-7	11-8	11-8	11-8	11-9
250.00	14-2	14-3	14-3	14-3	14-4	14-4	14-5	14-5	14-5	14-6
275.00	17-2	17-3	17-3	17-4	17-4	17-5	17-5	17-6	17-6	17-6
300.00	20-5	20-6	20-7	20-7	20-8	20-9	20-9	20-10	20-10	20-11
325.00	24-0	24-1	24-2	24-3	24-3	24-4	24-5	24-6	24-6	24-6
350.00	27-11	28-0	28-1	28-1	28-2	28-3	28-4	28-5	28-5	28-6
375.00	32-1	32-2	32-3	32-4	32-5	32-6	32-7	32-8	32-8	32-9
400.00	36-6	36-8	36-9	36-10	36-11	37-0	37-1	37-2	37-3	37-4
425.00	41-4	41-5	41-6	41-8	41-9	41-10	41-11	42-1	42-1	42-2
450.00	46-4	46-6	46-8	46-9	46-10	47-0	47-1	47-3	47-4	47-4
475.00	51-9	51-11	52-0	52-2	52-4	52-5	52-7	52-8	52-9	52-10
500.00	57-5	57-7	57-9	57-11	58-1	58-2	58-4	58-6	58-7	58-8

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	9-1	9-1	9-1	9-2	9-2	9-2	9-2	9-3	9-3	9-3
225.00	11-6	11-6	11-6	11-7	11-7	11-8	11-8	11-8	11-8	11-9
250.00	14-2	14-3	14-3	14-4	14-4	14-4	14-5	14-5	14-5	14-6
275.00	17-2	17-3	17-3	17-4	17-4	17-5	17-5	17-6	17-6	17-6
300.00	20-6	20-6	20-7	20-7	20-8	20-9	20-9	20-10	20-10	20-11
325.00	24-0	24-1	24-2	24-3	24-3	24-4	24-5	24-6	24-6	24-6
350.00	27-11	28-0	28-1	28-2	28-2	28-3	28-4	28-5	28-5	28-6
375.00	32-1	32-2	32-3	32-4	32-5	32-6	32-7	32-8	32-8	32-9
400.00	36-7	36-8	36-9	36-10	36-11	37-0	37-1	37-2	37-3	37-4
425.00	41-4	41-5	41-7	41-8	41-9	41-10	42-0	42-1	42-1	42-2
450.00	46-5	46-6	46-8	46-9	46-11	47-0	47-1	47-3	47-4	47-4
475.00	51-9	51-11	52-1	52-2	52-4	52-5	52-7	52-8	52-9	52-10
500.00	57-6	57-7	57-9	57-11	58-1	58-3	58-4	58-6	58-7	58-8

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 295 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.295
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING									
		636 - 24/7 ACSR/AW TENSION 1500 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.682	6.74	2000	6.74	2000*
20	0	0	0	0.785	6.08	648	6.06	650
30	0	0	0	0.785	6.21	634	6.19	637
40	0	0	0	0.785	6.34	621	6.32	624
50	0	0	0	0.785	6.47	609	6.44	612
60	0	0	0	0.785	6.6	598	6.57	600
70	0	0	0	0.785	6.72	587	6.69	589
80	0	0	0	0.785	6.84	577	6.81	579
90	0	0	0	0.785	6.96	567	6.93	569
100	0	0	0	0.785	7.06	559	7.05	560
110	0	0	0	0.785	7.13	553	7.13	553
120	0	0	0	0.785	7.21	547	7.21	547
130	0	0	0	0.785	7.28	542	7.28	542
167	0	0	0	0.785	7.54	524	7.54	524
212	0	0	0	0.785	7.85	503	7.85	503
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 297 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.297
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.682	27.32	2000	27.32	2000*
20	0	0	0	0.785	26.68	599	26.66	599
30	0	0	0	0.785	26.81	596	26.79	597
40	0	0	0	0.785	26.93	594	26.91	594
50	0	0	0	0.785	27.06	591	27.03	591
60	0	0	0	0.785	27.18	588	27.15	589
70	0	0	0	0.785	27.3	586	27.28	586
80	0	0	0	0.785	27.43	583	27.4	584
90	0	0	0	0.785	27.55	581	27.52	581
100	0	0	0	0.785	27.67	578	27.64	579
110	0	0	0	0.785	27.74	577	27.74	577
120	0	0	0	0.785	27.82	575	27.82	575
130	0	0	0	0.785	27.9	574	27.9	574
167	0	0	0	0.785	28.19	568	28.19	568
212	0	0	0	0.785	28.53	561	28.53	561

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 298 OF 360		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH812.298
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS											

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.682	43.16	2000	43.16	2000*
20	0	0	0	0.785	42.52	594	42.5	594
30	0	0	0	0.785	42.65	592	42.62	592
40	0	0	0	0.785	42.77	590	42.75	591
50	0	0	0	0.785	42.9	589	42.87	589
60	0	0	0	0.785	43.02	587	42.99	588
70	0	0	0	0.785	43.14	586	43.11	586
80	0	0	0	0.785	43.26	584	43.24	584
90	0	0	0	0.785	43.39	582	43.36	583
100	0	0	0	0.785	43.5	581	43.48	581
110	0	0	0	0.785	43.58	580	43.58	580
120	0	0	0	0.785	43.66	579	43.66	579
130	0	0	0	0.785	43.74	578	43.74	578
167	0	0	0	0.785	44.03	574	44.03	574
212	0	0	0	0.785	44.38	570	44.38	570
* Design Condition								

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.299

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-1	1-2
100.00	0-11	1-1	1-3	1-5	1-6	1-8	1-9	1-10	1-11	2-0
125.00	1-6	1-9	1-11	2-2	2-4	2-7	2-9	2-11	3-1	3-2
150.00	2-2	2-6	2-10	3-1	3-5	3-8	3-11	4-2	4-5	4-6
175.00	2-11	3-5	3-10	4-3	4-8	5-0	5-4	5-8	6-0	6-2
200.00	3-10	4-5	5-0	5-7	6-1	6-7	7-0	7-5	7-10	8-1

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-1	1-2
100.00	1-0	1-2	1-3	1-5	1-7	1-8	1-9	1-11	1-11	2-0
125.00	1-6	1-9	2-0	2-3	2-5	2-7	2-9	2-11	3-1	3-2
150.00	2-2	2-7	2-11	3-2	3-6	3-9	4-0	4-3	4-5	4-6
175.00	3-0	3-6	3-11	4-4	4-9	5-1	5-5	5-9	6-0	6-2
200.00	3-11	4-6	5-1	5-8	6-2	6-8	7-1	7-7	7-10	8-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 300 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.300
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-8	3-8	3-8	3-9	3-9	3-9	3-10	3-10	3-11	3-11
175.00	4-11	5-0	5-0	5-1	5-1	5-2	5-2	5-3	5-3	5-4
200.00	6-6	6-6	6-7	6-8	6-8	6-9	6-10	6-10	6-11	6-11
225.00	8-2	8-3	8-4	8-5	8-6	8-6	8-7	8-8	8-9	8-10
250.00	10-1	10-2	10-3	10-4	10-6	10-7	10-8	10-9	10-10	10-10
275.00	12-3	12-4	12-5	12-7	12-8	12-9	12-10	13-0	13-1	13-2
300.00	14-7	14-8	14-10	14-11	15-1	15-2	15-4	15-5	15-7	15-8
325.00	17-1	17-3	17-5	17-7	17-8	17-10	18-0	18-2	18-3	18-5
350.00	19-10	20-0	20-2	20-5	20-7	20-9	20-11	21-0	21-2	21-4
375.00	22-10	23-0	23-3	23-5	23-7	23-10	24-0	24-2	24-4	24-6

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-8	3-8	3-8	3-9	3-9	3-10	3-10	3-10	3-11	3-11
175.00	4-11	5-0	5-1	5-1	5-2	5-2	5-3	5-3	5-3	5-4
200.00	6-6	6-6	6-7	6-8	6-8	6-9	6-10	6-10	6-11	6-11
225.00	8-2	8-3	8-4	8-5	8-6	8-7	8-7	8-8	8-9	8-10
250.00	10-2	10-3	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-10
275.00	12-3	12-4	12-6	12-7	12-8	12-9	12-11	13-0	13-1	13-2
300.00	14-7	14-9	14-10	15-0	15-1	15-3	15-4	15-6	15-7	15-8
325.00	17-2	17-4	17-5	17-7	17-9	17-11	18-0	18-2	18-4	18-5
350.00	19-11	20-1	20-3	20-5	20-7	20-9	20-11	21-1	21-3	21-4
375.00	22-10	23-1	23-3	23-5	23-8	23-10	24-0	24-3	24-5	24-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 302 OF 360		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH812.302
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	10-7	10-7	10-7	10-8	10-8	10-8	10-9	10-9	10-9	10-10
275.00	12-9	12-10	12-10	12-11	12-11	12-11	13-0	13-0	13-1	13-1
300.00	15-2	15-3	15-4	15-4	15-5	15-5	15-6	15-6	15-7	15-7
325.00	17-10	17-11	18-0	18-0	18-1	18-1	18-2	18-3	18-3	18-4
350.00	20-9	20-9	20-10	20-11	21-0	21-0	21-1	21-2	21-2	21-3
375.00	23-10	23-11	23-11	24-0	24-1	24-2	24-3	24-3	24-4	24-5
400.00	27-1	27-2	27-3	27-4	27-5	27-6	27-7	27-8	27-9	27-10
425.00	30-7	30-9	30-10	30-11	31-0	31-1	31-2	31-3	31-4	31-5
450.00	34-4	34-6	34-7	34-8	34-9	34-10	34-11	35-1	35-2	35-3
475.00	38-4	38-5	38-7	38-8	38-9	38-10	39-0	39-1	39-2	39-4
500.00	42-6	42-7	42-9	42-10	43-0	43-1	43-3	43-4	43-6	43-7
525.00	46-11	47-0	47-2	47-4	47-5	47-7	47-9	47-10	48-0	48-1
550.00	51-6	51-8	51-10	52-0	52-2	52-3	52-5	52-7	52-9	52-10
575.00	56-4	56-7	56-8	56-10	57-0	57-2	57-4	57-6	57-8	57-10
600.00	61-5	61-8	61-10	62-0	62-2	62-4	62-6	62-8	62-11	63-0
625.00	66-9	66-11	67-2	67-4	67-6	67-9	67-11	68-1	68-4	68-6

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	10-7	10-7	10-7	10-8	10-8	10-8	10-9	10-9	10-10	10-10
275.00	12-9	12-10	12-10	12-11	12-11	13-0	13-0	13-0	13-1	13-1
300.00	15-3	15-3	15-4	15-4	15-5	15-5	15-6	15-6	15-7	15-7
325.00	17-10	17-11	18-0	18-0	18-1	18-2	18-2	18-3	18-3	18-4
350.00	20-9	20-10	20-10	20-11	21-0	21-0	21-1	21-2	21-3	21-3
375.00	23-10	23-11	24-0	24-0	24-1	24-2	24-3	24-4	24-4	24-5
400.00	27-1	27-2	27-3	27-4	27-5	27-6	27-7	27-8	27-9	27-10
425.00	30-8	30-9	30-10	30-11	31-0	31-1	31-2	31-3	31-4	31-5
450.00	34-5	34-6	34-7	34-8	34-9	34-11	35-0	35-1	35-2	35-3
475.00	38-4	38-5	38-7	38-8	38-9	38-11	39-0	39-1	39-3	39-4
500.00	42-6	42-8	42-9	42-11	43-0	43-2	43-3	43-5	43-6	43-7
525.00	46-11	47-1	47-2	47-4	47-6	47-7	47-9	47-11	48-0	48-1
550.00	51-7	51-8	51-10	52-0	52-2	52-4	52-5	52-7	52-9	52-10
575.00	56-5	56-7	56-9	56-11	57-1	57-3	57-5	57-7	57-9	57-10
600.00	61-6	61-8	61-10	62-0	62-3	62-5	62-7	62-9	62-11	63-0
625.00	66-10	67-0	67-2	67-5	67-7	67-9	68-0	68-2	68-4	68-6


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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>304 OF 360</h2> </div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH812.304	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.682	5.4	2492	5.38	2500*
20	0	0	0	0.785	4.48	878	4.42	890
30	0	0	0	0.785	4.65	845	4.59	857
40	0	0	0	0.785	4.82	816	4.76	827
50	0	0	0	0.785	4.98	790	4.92	800
60	0	0	0	0.785	5.14	765	5.08	775
70	0	0	0	0.785	5.3	743	5.23	752
80	0	0	0	0.785	5.45	723	5.38	731
90	0	0	0	0.785	5.59	704	5.53	712
100	0	0	0	0.785	5.73	687	5.67	694
110	0	0	0	0.785	5.83	675	5.81	678
120	0	0	0	0.785	5.92	665	5.92	665
130	0	0	0	0.785	6	656	6	656
167	0	0	0	0.785	6.31	625	6.31	625
212	0	0	0	0.785	6.66	592	6.66	592
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>305 OF 360</p> </div>	Indicates Latest Revision		Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH812.305</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 2500 LBS</p> </div>						

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.682	21.72	2499	21.71	2500*
20	0	0	0	0.785	20.84	762	20.78	764
30	0	0	0	0.785	20.99	756	20.94	758
40	0	0	0	0.785	21.15	751	21.1	752
50	0	0	0	0.785	21.31	745	21.25	747
60	0	0	0	0.785	21.46	740	21.41	742
70	0	0	0	0.785	21.62	735	21.56	737
80	0	0	0	0.785	21.77	730	21.71	732
90	0	0	0	0.785	21.92	725	21.86	727
100	0	0	0	0.785	22.07	720	22.01	722
110	0	0	0	0.785	22.21	716	22.16	717
120	0	0	0	0.785	22.3	713	22.3	713
130	0	0	0	0.785	22.4	710	22.4	710
167	0	0	0	0.785	22.75	699	22.75	699
212	0	0	0	0.785	23.17	687	23.17	687

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 306 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.306
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 2500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.682	34.16	2499	34.15	2500*
20	0	0	0	0.785	33.28	750	33.23	751
30	0	0	0	0.785	33.44	747	33.39	748
40	0	0	0	0.785	33.6	743	33.54	745
50	0	0	0	0.785	33.75	740	33.7	741
60	0	0	0	0.785	33.91	737	33.85	738
70	0	0	0	0.785	34.06	734	34	735
80	0	0	0	0.785	34.21	730	34.15	732
90	0	0	0	0.785	34.37	727	34.31	729
100	0	0	0	0.785	34.52	724	34.46	725
110	0	0	0	0.785	34.66	721	34.61	722
120	0	0	0	0.785	34.75	720	34.75	720
130	0	0	0	0.785	34.85	718	34.85	718
167	0	0	0	0.785	35.21	711	35.21	711
212	0	0	0	0.785	35.64	702	35.64	702
* Design Condition								

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>307 OF 360</p> </div>	Indicates Latest Revision		Completely Revised	<div style="border: 1px solid black; padding: 2px;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH812.307</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 2500 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11
100.00	0-6	0-7	0-9	0-11	1-1	1-2	1-4	1-6	1-7	1-8
125.00	0-9	0-11	1-2	1-5	1-8	1-11	2-1	2-4	2-6	2-8
150.00	1-1	1-4	1-8	2-0	2-5	2-9	3-0	3-4	3-7	3-10
175.00	1-6	1-10	2-4	2-9	3-3	3-8	4-1	4-6	4-11	5-2
200.00	1-11	2-5	3-0	3-7	4-3	4-10	5-5	5-11	6-5	6-10

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-4	0-6	0-7	0-8	0-9	0-10	0-10	0-11	0-11
100.00	0-6	0-8	0-10	1-0	1-2	1-3	1-5	1-7	1-8	1-8
125.00	0-10	1-0	1-3	1-6	1-9	2-0	2-3	2-5	2-7	2-8
150.00	1-2	1-6	1-10	2-3	2-7	2-11	3-2	3-6	3-8	3-10
175.00	1-7	2-0	2-6	3-0	3-6	3-11	4-4	4-9	5-0	5-2
200.00	2-1	2-8	3-4	3-11	4-7	5-2	5-8	6-2	6-6	6-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>308 OF 360</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH812.308
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-5
125.00	1-9	1-10	1-10	1-11	2-0	2-1	2-1	2-2	2-3	2-3
150.00	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-3
175.00	3-5	3-6	3-8	3-9	3-11	4-0	4-1	4-3	4-4	4-5
200.00	4-5	4-7	4-9	4-11	5-1	5-3	5-5	5-6	5-8	5-10
225.00	5-7	5-10	6-0	6-3	6-5	6-7	6-10	7-0	7-2	7-4
250.00	6-11	7-2	7-5	7-8	7-11	8-2	8-5	8-8	8-10	9-1

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-5
125.00	1-9	1-10	1-11	1-11	2-0	2-1	2-2	2-2	2-3	2-3
150.00	2-6	2-7	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-3
175.00	3-5	3-7	3-8	3-10	3-11	4-1	4-2	4-3	4-5	4-6
200.00	4-6	4-8	4-10	5-0	5-2	5-4	5-5	5-7	5-9	5-10
225.00	5-8	5-11	6-1	6-4	6-6	6-8	6-11	7-1	7-3	7-5
250.00	7-0	7-3	7-6	7-9	8-0	8-3	8-6	8-9	9-0	9-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>309 OF 360</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH812.309</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 2500 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-2	5-3	5-3	5-4	5-4	5-4	5-5	5-5	5-6	5-6
225.00	6-7	6-7	6-8	6-8	6-9	6-10	6-10	6-11	6-11	7-0
250.00	8-1	8-2	8-3	8-3	8-4	8-5	8-6	8-6	8-7	8-8
275.00	9-10	9-11	9-11	10-0	10-1	10-2	10-3	10-4	10-5	10-5
300.00	11-8	11-9	11-10	11-11	12-0	12-1	12-2	12-3	12-4	12-5
325.00	13-8	13-10	13-11	14-0	14-1	14-3	14-4	14-5	14-6	14-7
350.00	15-11	16-0	16-2	16-3	16-4	16-6	16-7	16-9	16-10	16-11
375.00	18-3	18-5	18-6	18-8	18-10	18-11	19-1	19-2	19-4	19-6
400.00	20-9	20-11	21-1	21-3	21-5	21-7	21-9	21-10	22-0	22-2
425.00	23-6	23-8	23-10	24-0	24-2	24-4	24-6	24-8	24-10	25-0
450.00	26-4	26-6	26-9	26-11	27-1	27-4	27-6	27-8	27-11	28-1
475.00	29-4	29-7	29-10	30-0	30-3	30-5	30-8	30-11	31-1	31-4
500.00	32-6	32-9	33-0	33-3	33-6	33-9	34-0	34-3	34-6	34-8

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-2	5-3	5-3	5-4	5-4	5-5	5-5	5-6	5-6	5-6
225.00	6-7	6-8	6-8	6-9	6-9	6-10	6-10	6-11	7-0	7-0
250.00	8-1	8-2	8-3	8-4	8-4	8-5	8-6	8-7	8-7	8-8
275.00	9-10	9-11	10-0	10-1	10-1	10-2	10-3	10-4	10-5	10-6
300.00	11-8	11-9	11-11	12-0	12-1	12-2	12-3	12-4	12-5	12-6
325.00	13-9	13-10	13-11	14-1	14-2	14-3	14-4	14-5	14-7	14-8
350.00	15-11	16-1	16-2	16-4	16-5	16-6	16-8	16-9	16-11	17-0
375.00	18-4	18-5	18-7	18-9	18-10	19-0	19-2	19-3	19-5	19-6
400.00	20-10	21-0	21-2	21-4	21-6	21-7	21-9	21-11	22-1	22-2
425.00	23-6	23-9	23-11	24-1	24-3	24-5	24-7	24-9	24-11	25-1
450.00	26-5	26-7	26-10	27-0	27-2	27-5	27-7	27-9	28-0	28-2
475.00	29-5	29-8	29-10	30-1	30-4	30-6	30-9	31-0	31-2	31-4
500.00	32-7	32-10	33-1	33-4	33-7	33-10	34-1	34-4	34-7	34-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 311 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.311
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 2500 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.682	4.53	2968	4.48	3000*
20	0	0	0	0.785	3.32	1183	3.19	1232
30	0	0	0	0.785	3.54	1111	3.41	1154
40	0	0	0	0.785	3.74	1050	3.61	1088
50	0	0	0	0.785	3.94	997	3.81	1031
60	0	0	0	0.785	4.13	951	4	982
70	0	0	0	0.785	4.32	911	4.19	938
80	0	0	0	0.785	4.5	875	4.37	900
90	0	0	0	0.785	4.67	843	4.54	866
100	0	0	0	0.785	4.83	814	4.71	835
110	0	0	0	0.785	4.96	793	4.88	807
120	0	0	0	0.785	5.06	778	5.04	781
130	0	0	0	0.785	5.16	763	5.16	763
167	0	0	0	0.785	5.5	716	5.5	716
212	0	0	0	0.785	5.89	669	5.89	669
* Design Condition								


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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>313 OF 360</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH812.313</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 3000 LBS</p> </div>						

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.682	28.34	2996	28.3	3000*
20	0	0	0	0.785	27.17	913	27.07	917
30	0	0	0	0.785	27.36	907	27.26	911
40	0	0	0	0.785	27.55	901	27.45	905
50	0	0	0	0.785	27.74	895	27.63	899
60	0	0	0	0.785	27.93	889	27.82	893
70	0	0	0	0.785	28.11	884	28	887
80	0	0	0	0.785	28.3	878	28.18	881
90	0	0	0	0.785	28.48	873	28.37	876
100	0	0	0	0.785	28.66	867	28.55	871
110	0	0	0	0.785	28.84	862	28.73	865
120	0	0	0	0.785	28.98	858	28.9	860
130	0	0	0	0.785	29.09	855	29.08	855
167	0	0	0	0.785	29.52	843	29.52	843
212	0	0	0	0.785	30.02	829	30.02	829

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<div style="text-align: center;"> <p>SHEET</p> <p>315 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH812.315</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 3000 LBS</p> </div>				

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-2	1-3
125.00	1-3	1-4	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-11
150.00	1-10	1-11	2-0	2-2	2-3	2-4	2-5	2-7	2-8	2-9
175.00	2-5	2-7	2-9	2-11	3-1	3-2	3-4	3-6	3-7	3-9
200.00	3-2	3-5	3-7	3-10	4-0	4-2	4-4	4-7	4-9	4-11
225.00	4-0	4-4	4-7	4-10	5-1	5-4	5-6	5-9	6-0	6-2
250.00	5-0	5-4	5-8	5-11	6-3	6-7	6-10	7-1	7-4	7-7

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3
125.00	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-10	1-11	1-11
150.00	1-10	2-0	2-1	2-3	2-4	2-5	2-6	2-7	2-9	2-9
175.00	2-7	2-8	2-10	3-0	3-2	3-4	3-5	3-7	3-8	3-10
200.00	3-4	3-6	3-9	3-11	4-2	4-4	4-6	4-8	4-10	5-0
225.00	4-2	4-6	4-9	5-0	5-3	5-6	5-8	5-11	6-1	6-3
250.00	5-2	5-6	5-10	6-2	6-6	6-9	7-0	7-4	7-7	7-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 317 OF 360		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH812.317		
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 3000 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-2	4-3	4-3	4-4	4-5	4-5	4-6	4-6	4-7	4-7
225.00	5-4	5-4	5-5	5-6	5-7	5-7	5-8	5-9	5-9	5-10
250.00	6-7	6-7	6-8	6-9	6-10	6-11	7-0	7-1	7-2	7-2
275.00	7-11	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8
300.00	9-5	9-7	9-8	9-9	9-10	10-0	10-1	10-2	10-3	10-4
325.00	11-1	11-2	11-4	11-5	11-7	11-8	11-10	11-11	12-1	12-2
350.00	12-10	13-0	13-2	13-3	13-5	13-7	13-8	13-10	14-0	14-1
375.00	14-9	14-11	15-1	15-3	15-5	15-7	15-9	15-11	16-1	16-3
400.00	16-9	17-0	17-2	17-4	17-7	17-9	17-11	18-1	18-3	18-5
425.00	19-0	19-2	19-5	19-7	19-10	20-0	20-3	20-5	20-8	20-10
450.00	21-3	21-6	21-9	22-0	22-3	22-5	22-8	22-11	23-2	23-4
475.00	23-8	24-0	24-3	24-6	24-9	25-0	25-3	25-7	25-10	26-1
500.00	26-3	26-7	26-10	27-2	27-5	27-9	28-0	28-4	28-7	28-11

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-3	4-3	4-4	4-4	4-5	4-5	4-6	4-7	4-7	4-8
225.00	5-4	5-5	5-6	5-6	5-7	5-8	5-8	5-9	5-10	5-10
250.00	6-7	6-8	6-9	6-10	6-11	7-0	7-0	7-1	7-2	7-3
275.00	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9
300.00	9-6	9-7	9-9	9-10	9-11	10-0	10-2	10-3	10-4	10-5
325.00	11-2	11-3	11-5	11-6	11-8	11-9	11-11	12-0	12-2	12-3
350.00	12-11	13-1	13-3	13-4	13-6	13-8	13-10	13-11	14-1	14-2
375.00	14-10	15-0	15-2	15-4	15-6	15-8	15-10	16-0	16-2	16-4
400.00	16-11	17-1	17-3	17-6	17-8	17-10	18-0	18-3	18-5	18-7
425.00	19-1	19-4	19-6	19-9	19-11	20-2	20-4	20-7	20-9	21-0
450.00	21-5	21-8	21-11	22-2	22-4	22-7	22-10	23-1	23-3	23-6
475.00	23-10	24-1	24-5	24-8	24-11	25-2	25-5	25-8	26-0	26-3
500.00	26-5	26-9	27-0	27-4	27-8	27-11	28-3	28-6	28-9	29-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 319 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH812.319
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING 636 - 24/7 ACSR/AW TENSION 3000 LBS										

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.682	58.22	1000	58.22	1000*
0	0	0	0	0.785	58	294	57.99	294
30	0	0	0	0.785	58.21	293	58.2	293
40	0	0	0	0.785	58.27	292	58.27	292
50	0	0	0	0.785	58.33	292	58.33	292
60	0	0	0	0.785	58.4	292	58.39	292
70	0	0	0	0.785	58.46	292	58.45	292
80	0	0	0	0.785	58.51	291	58.51	291
90	0	0	0	0.785	58.55	291	58.55	291
100	0	0	0	0.785	58.58	291	58.58	291
110	0	0	0	0.785	58.62	291	58.62	291
120	0	0	0	0.785	58.66	291	58.66	291
130	0	0	0	0.785	58.7	291	58.7	291
167	0	0	0	0.785	58.85	290	58.85	290
212	0	0	0	0.785	59.03	289	59.03	289

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>322 OF 360</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH812.322
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.682	96.41	1000	96.41	1000*
0	0	0	0	0.785	96.19	293	96.19	293
30	0	0	0	0.785	96.41	293	96.4	293
40	0	0	0	0.785	96.47	293	96.46	293
50	0	0	0	0.785	96.53	292	96.52	292
60	0	0	0	0.785	96.59	292	96.58	292
70	0	0	0	0.785	96.65	292	96.64	292
80	0	0	0	0.785	96.7	292	96.7	292
90	0	0	0	0.785	96.74	292	96.74	292
100	0	0	0	0.785	96.78	292	96.78	292
110	0	0	0	0.785	96.82	292	96.82	292
120	0	0	0	0.785	96.86	292	96.86	292
130	0	0	0	0.785	96.9	292	96.9	292
167	0	0	0	0.785	97.04	291	97.04	291
212	0	0	0	0.785	97.22	291	97.22	291

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 323 OF 360	Indicates Latest Revision			Completely Revised	X	New Page		Information Removed	OH812.323
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS								
	DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 1000 LBS								

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-10	1-11	1-11	1-11	2-0	2-0	2-1	2-1	2-1	2-1
100.00	3-3	3-4	3-5	3-6	3-6	3-7	3-8	3-8	3-9	3-9
125.00	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-10
150.00	7-5	7-7	7-8	7-10	8-0	8-1	8-3	8-4	8-5	8-5
175.00	10-1	10-4	10-6	10-8	10-10	11-1	11-2	11-4	11-5	11-6
200.00	13-2	13-6	13-9	14-0	14-3	14-5	14-8	14-10	14-11	15-1

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-10	1-11	1-11	1-11	2-0	2-0	2-1	2-1	2-1	2-1
100.00	3-3	3-4	3-5	3-6	3-7	3-7	3-8	3-8	3-9	3-9
125.00	5-2	5-3	5-4	5-5	5-6	5-8	5-8	5-9	5-10	5-10
150.00	7-5	7-7	7-9	7-10	8-0	8-1	8-3	8-4	8-5	8-5
175.00	10-1	10-4	10-6	10-8	10-11	11-1	11-2	11-4	11-5	11-6
200.00	13-3	13-6	13-9	14-0	14-3	14-6	14-8	14-10	14-11	15-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 324 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.324
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	14-3	14-3	14-3	14-4	14-4	14-4	14-4	14-4	14-4	14-4
225.00	18-1	18-1	18-1	18-1	18-2	18-2	18-2	18-2	18-2	18-3
250.00	22-4	22-4	22-5	22-5	22-5	22-6	22-6	22-6	22-6	22-6
275.00	27-1	27-1	27-2	27-2	27-3	27-3	27-3	27-3	27-4	27-4
300.00	32-4	32-4	32-5	32-5	32-6	32-6	32-6	32-7	32-7	32-7
325.00	38-0	38-1	38-1	38-2	38-2	38-3	38-3	38-4	38-4	38-4
350.00	44-3	44-3	44-4	44-5	44-5	44-6	44-6	44-6	44-7	44-7
375.00	50-11	51-0	51-1	51-1	51-2	51-2	51-3	51-3	51-4	51-4
400.00	58-2	58-2	58-3	58-4	58-5	58-5	58-6	58-7	58-7	58-7
425.00	65-10	65-11	66-0	66-1	66-2	66-3	66-3	66-4	66-4	66-5
450.00	74-1	74-2	74-3	74-4	74-5	74-6	74-7	74-8	74-8	74-9
475.00	82-10	83-0	83-1	83-2	83-3	83-4	83-5	83-6	83-6	83-7
500.00	92-2	92-4	92-5	92-6	92-7	92-9	92-10	92-10	92-11	93-0

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	14-3	14-3	14-3	14-4	14-4	14-4	14-4	14-4	14-4	14-4
225.00	18-1	18-1	18-1	18-1	18-2	18-2	18-2	18-2	18-2	18-3
250.00	22-4	22-4	22-5	22-5	22-5	22-6	22-6	22-6	22-6	22-6
275.00	27-1	27-2	27-2	27-2	27-3	27-3	27-3	27-3	27-4	27-4
300.00	32-4	32-4	32-5	32-5	32-6	32-6	32-6	32-7	32-7	32-7
325.00	38-0	38-1	38-1	38-2	38-2	38-3	38-3	38-4	38-4	38-4
350.00	44-3	44-3	44-4	44-5	44-5	44-6	44-6	44-6	44-7	44-7
375.00	50-11	51-0	51-1	51-1	51-2	51-3	51-3	51-3	51-4	51-4
400.00	58-2	58-3	58-3	58-4	58-5	58-5	58-6	58-7	58-7	58-7
425.00	65-10	65-11	66-0	66-1	66-2	66-3	66-3	66-4	66-4	66-5
450.00	74-1	74-2	74-3	74-4	74-5	74-6	74-7	74-8	74-8	74-9
475.00	82-11	83-0	83-1	83-2	83-3	83-4	83-5	83-6	83-6	83-7
500.00	92-2	92-4	92-5	92-6	92-8	92-9	92-10	92-10	92-11	93-0

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	23-3	23-4	23-4	23-4	23-4	23-4	23-4	23-5	23-5	23-5
275.00	28-3	28-3	28-3	28-4	28-4	28-4	28-4	28-4	28-4	28-4
300.00	33-8	33-9	33-9	33-9	33-9	33-10	33-10	33-10	33-10	33-10
325.00	39-8	39-8	39-9	39-9	39-9	39-9	39-10	39-10	39-10	39-10
350.00	46-2	46-2	46-2	46-3	46-3	46-3	46-4	46-4	46-4	46-4
375.00	53-2	53-2	53-2	53-3	53-3	53-4	53-4	53-4	53-4	53-5
400.00	60-8	60-8	60-9	60-9	60-10	60-10	60-11	60-11	60-11	61-0
425.00	68-9	68-9	68-10	68-10	68-11	68-11	69-0	69-0	69-1	69-1
450.00	77-4	77-5	77-6	77-6	77-7	77-7	77-8	77-8	77-9	77-9
475.00	86-7	86-7	86-8	86-9	86-9	86-10	86-11	86-11	86-11	87-0
500.00	96-4	96-5	96-6	96-6	96-7	96-8	96-8	96-9	96-9	96-10
525.00	106-8	106-9	106-10	106-11	107-0	107-1	107-1	107-2	107-2	107-3
550.00	117-8	117-9	117-10	117-11	118-0	118-1	118-1	118-2	118-3	118-3
575.00	129-3	129-4	129-5	129-6	129-7	129-8	129-9	129-10	129-10	129-11
600.00	141-6	141-7	141-8	141-9	141-10	141-11	142-0	142-1	142-2	142-3
625.00	154-4	154-6	154-7	154-8	154-9	154-10	155-0	155-0	155-1	155-2

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	23-3	23-4	23-4	23-4	23-4	23-4	23-4	23-5	23-5	23-5
275.00	28-3	28-3	28-3	28-4	28-4	28-4	28-4	28-4	28-4	28-4
300.00	33-8	33-9	33-9	33-9	33-9	33-10	33-10	33-10	33-10	33-10
325.00	39-8	39-8	39-9	39-9	39-9	39-9	39-10	39-10	39-10	39-10
350.00	46-2	46-2	46-2	46-3	46-3	46-3	46-4	46-4	46-4	46-4
375.00	53-2	53-2	53-2	53-3	53-3	53-4	53-4	53-4	53-4	53-5
400.00	60-8	60-9	60-9	60-9	60-10	60-10	60-11	60-11	60-11	61-0
425.00	68-9	68-9	68-10	68-11	68-11	69-0	69-0	69-0	69-1	69-1
450.00	77-4	77-5	77-6	77-6	77-7	77-7	77-8	77-8	77-9	77-9
475.00	86-7	86-8	86-8	86-9	86-9	86-10	86-11	86-11	86-11	87-0
500.00	96-4	96-5	96-6	96-6	96-7	96-8	96-8	96-9	96-9	96-10
525.00	106-8	106-9	106-10	106-11	107-0	107-1	107-1	107-2	107-2	107-3
550.00	117-8	117-9	117-10	117-11	118-0	118-1	118-1	118-2	118-3	118-3
575.00	129-3	129-4	129-5	129-6	129-7	129-8	129-9	129-10	129-10	129-11
600.00	141-6	141-7	141-8	141-9	141-10	142-0	142-0	142-1	142-2	142-3
625.00	154-4	154-6	154-7	154-8	154-9	154-11	155-0	155-0	155-1	155-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>328 OF 360</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.328
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 1000 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.682	36.99	1500	36.99	1500*
0	0	0	0	0.785	36.62	443	36.6	443
30	0	0	0	0.785	36.93	440	36.92	440
40	0	0	0	0.785	37.02	439	37.01	439
50	0	0	0	0.785	37.12	438	37.1	438
60	0	0	0	0.785	37.21	437	37.19	437
70	0	0	0	0.785	37.3	436	37.28	436
80	0	0	0	0.785	37.39	435	37.37	435
90	0	0	0	0.785	37.47	434	37.46	434
100	0	0	0	0.785	37.53	433	37.53	433
110	0	0	0	0.785	37.59	432	37.59	432
120	0	0	0	0.785	37.65	432	37.65	432
130	0	0	0	0.785	37.7	431	37.7	431
167	0	0	0	0.785	37.92	429	37.92	429
212	0	0	0	0.785	38.18	426	38.18	426

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 330 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.330
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.682	59	1500	59	1500*
0	0	0	0	0.785	58.63	442	58.61	442
30	0	0	0	0.785	58.95	439	58.93	440
40	0	0	0	0.785	59.04	439	59.02	439
50	0	0	0	0.785	59.13	438	59.11	438
60	0	0	0	0.785	59.22	438	59.21	438
70	0	0	0	0.785	59.31	437	59.3	437
80	0	0	0	0.785	59.41	436	59.39	436
90	0	0	0	0.785	59.48	436	59.48	436
100	0	0	0	0.785	59.54	435	59.54	435
110	0	0	0	0.785	59.6	435	59.6	435
120	0	0	0	0.785	59.66	435	59.66	435
130	0	0	0	0.785	59.72	434	59.72	434
167	0	0	0	0.785	59.94	433	59.94	433
212	0	0	0	0.785	60.21	431	60.21	431

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>331 OF 360</div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH812.331	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-7
100.00	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-8	2-9
125.00	3-3	3-5	3-6	3-8	3-10	3-11	4-1	4-2	4-3	4-4
150.00	4-8	4-11	5-1	5-3	5-6	5-8	5-10	6-0	6-1	6-2
175.00	6-4	6-8	6-11	7-2	7-5	7-8	7-11	8-2	8-4	8-5
200.00	8-3	8-8	9-1	9-5	9-9	10-1	10-5	10-8	10-10	11-1

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-2	1-3	1-3	1-4	1-5	1-5	1-6	1-6	1-6	1-7
100.00	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-8	2-9
125.00	3-3	3-5	3-7	3-8	3-10	3-11	4-1	4-2	4-3	4-4
150.00	4-8	4-11	5-1	5-4	5-6	5-8	5-10	6-0	6-1	6-2
175.00	6-5	6-8	7-0	7-3	7-6	7-9	8-0	8-2	8-4	8-5
200.00	8-4	8-9	9-1	9-6	9-10	10-2	10-5	10-8	10-10	11-1

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Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-2	2-3	2-3	2-3	2-4	2-4	2-4	2-4	2-5	2-5
125.00	3-5	3-6	3-6	3-7	3-7	3-8	3-8	3-8	3-9	3-9
150.00	5-0	5-0	5-1	5-2	5-2	5-3	5-3	5-4	5-4	5-5
175.00	6-9	6-10	6-11	7-0	7-1	7-1	7-2	7-3	7-4	7-4
200.00	8-10	8-11	9-0	9-1	9-3	9-4	9-5	9-6	9-6	9-7
225.00	11-2	11-4	11-5	11-7	11-8	11-9	11-11	12-0	12-1	12-2
250.00	13-10	14-0	14-2	14-3	14-5	14-7	14-8	14-10	14-11	15-0

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-3	2-3	2-3	2-3	2-4	2-4	2-4	2-4	2-5	2-5
125.00	3-5	3-6	3-6	3-7	3-7	3-8	3-8	3-8	3-9	3-9
150.00	5-0	5-0	5-1	5-2	5-2	5-3	5-3	5-4	5-4	5-5
175.00	6-9	6-10	6-11	7-0	7-1	7-2	7-2	7-3	7-4	7-4
200.00	8-10	8-11	9-1	9-2	9-3	9-4	9-5	9-6	9-6	9-7
225.00	11-3	11-4	11-6	11-7	11-8	11-10	11-11	12-0	12-1	12-2
250.00	13-10	14-0	14-2	14-4	14-5	14-7	14-9	14-10	14-11	15-0

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 333 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.333
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	9-2	9-2	9-2	9-2	9-3	9-3	9-3	9-3	9-4	9-4
225.00	11-7	11-7	11-7	11-8	11-8	11-8	11-9	11-9	11-9	11-10
250.00	14-3	14-4	14-4	14-5	14-5	14-6	14-6	14-6	14-7	14-7
275.00	17-4	17-4	17-5	17-5	17-6	17-6	17-7	17-7	17-8	17-8
300.00	20-7	20-8	20-9	20-9	20-10	20-10	20-11	21-0	21-0	21-0
325.00	24-3	24-3	24-4	24-5	24-5	24-6	24-7	24-8	24-8	24-9
350.00	28-1	28-2	28-3	28-4	28-5	28-6	28-6	28-7	28-8	28-8
375.00	32-4	32-5	32-6	32-7	32-8	32-9	32-10	32-11	32-11	33-0
400.00	36-10	36-11	37-0	37-1	37-2	37-3	37-4	37-6	37-6	37-7
425.00	41-7	41-9	41-10	41-11	42-1	42-2	42-3	42-4	42-5	42-6
450.00	46-9	46-10	47-0	47-1	47-3	47-4	47-5	47-7	47-8	47-9
475.00	52-2	52-4	52-5	52-7	52-8	52-10	52-11	53-1	53-2	53-3
500.00	57-10	58-1	58-2	58-4	58-6	58-7	58-9	58-11	59-0	59-1

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	9-2	9-2	9-2	9-2	9-3	9-3	9-3	9-3	9-4	9-4
225.00	11-7	11-7	11-8	11-8	11-8	11-9	11-9	11-9	11-9	11-10
250.00	14-3	14-4	14-4	14-5	14-5	14-6	14-6	14-6	14-7	14-7
275.00	17-4	17-4	17-5	17-5	17-6	17-6	17-7	17-7	17-8	17-8
300.00	20-7	20-8	20-9	20-9	20-10	20-11	20-11	21-0	21-0	21-0
325.00	24-3	24-3	24-4	24-5	24-6	24-6	24-7	24-8	24-8	24-9
350.00	28-2	28-2	28-3	28-4	28-5	28-6	28-7	28-7	28-8	28-8
375.00	32-4	32-5	32-6	32-7	32-8	32-9	32-10	32-11	32-11	33-0
400.00	36-10	36-11	37-0	37-1	37-2	37-4	37-5	37-6	37-6	37-7
425.00	41-8	41-9	41-10	42-0	42-1	42-2	42-3	42-4	42-5	42-6
450.00	46-9	46-11	47-0	47-1	47-3	47-4	47-6	47-7	47-8	47-9
475.00	52-2	52-4	52-5	52-7	52-9	52-10	53-0	53-1	53-2	53-3
500.00	57-11	58-1	58-3	58-4	58-6	58-8	58-10	58-11	59-0	59-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 335 OF 360		Indicates Latest Revision				Completely Revised	X	New Page		Information Removed		OH812.335
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
	STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 1500 LBS											

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	14-6	14-6	14-7	14-7	14-7	14-7	14-8	14-8	14-8	14-8
275.00	17-7	17-7	17-8	17-8	17-8	17-9	17-9	17-9	17-9	17-10
300.00	20-11	21-0	21-0	21-0	21-1	21-1	21-2	21-2	21-2	21-3
325.00	24-7	24-8	24-8	24-9	24-9	24-10	24-10	24-10	24-11	24-11
350.00	28-7	28-7	28-8	28-8	28-9	28-9	28-10	28-11	28-11	28-11
375.00	32-10	32-11	32-11	33-0	33-1	33-1	33-2	33-2	33-3	33-3
400.00	37-5	37-6	37-6	37-7	37-8	37-8	37-9	37-10	37-10	37-11
425.00	42-4	42-4	42-5	42-6	42-7	42-8	42-8	42-9	42-10	42-10
450.00	47-6	47-7	47-8	47-9	47-10	47-10	47-11	48-0	48-1	48-1
475.00	53-0	53-1	53-2	53-3	53-4	53-5	53-6	53-7	53-8	53-8
500.00	58-10	58-11	59-0	59-1	59-2	59-4	59-5	59-6	59-7	59-7
525.00	65-0	65-1	65-2	65-4	65-5	65-6	65-7	65-8	65-9	65-10
550.00	71-5	71-7	71-8	71-10	71-11	72-0	72-2	72-3	72-4	72-5
575.00	78-3	78-5	78-6	78-8	78-9	78-11	79-0	79-1	79-3	79-3
600.00	85-4	85-6	85-8	85-10	85-11	86-1	86-2	86-4	86-5	86-6
625.00	92-10	93-0	93-2	93-4	93-5	93-7	93-9	93-11	94-0	94-1

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	14-6	14-6	14-7	14-7	14-7	14-8	14-8	14-8	14-8	14-8
275.00	17-7	17-7	17-8	17-8	17-8	17-9	17-9	17-9	17-9	17-10
300.00	20-11	21-0	21-0	21-1	21-1	21-1	21-2	21-2	21-2	21-3
325.00	24-7	24-8	24-8	24-9	24-9	24-10	24-10	24-10	24-11	24-11
350.00	28-7	28-7	28-8	28-9	28-9	28-10	28-10	28-11	28-11	28-11
375.00	32-10	32-11	32-11	33-0	33-1	33-1	33-2	33-2	33-3	33-3
400.00	37-5	37-6	37-7	37-7	37-8	37-9	37-9	37-10	37-10	37-11
425.00	42-4	42-5	42-5	42-6	42-7	42-8	42-8	42-9	42-10	42-10
450.00	47-6	47-7	47-8	47-9	47-10	47-11	47-11	48-0	48-1	48-1
475.00	53-0	53-1	53-2	53-3	53-4	53-5	53-6	53-7	53-8	53-8
500.00	58-10	58-11	59-0	59-2	59-3	59-4	59-5	59-6	59-7	59-7
525.00	65-0	65-1	65-3	65-4	65-5	65-6	65-7	65-8	65-9	65-10
550.00	71-6	71-7	71-8	71-10	71-11	72-1	72-2	72-3	72-4	72-5
575.00	78-3	78-5	78-6	78-8	78-9	78-11	79-0	79-2	79-3	79-3
600.00	85-5	85-7	85-8	85-10	85-11	86-1	86-3	86-4	86-5	86-6
625.00	92-10	93-0	93-2	93-4	93-6	93-7	93-9	93-11	94-0	94-1


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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>336 OF 360</h2> </div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH812.336	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 1500 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.682	27.32	2000	27.32	2000*
0	0	0	0	0.785	26.78	597	26.74	598
30	0	0	0	0.785	27.18	588	27.15	589
40	0	0	0	0.785	27.3	586	27.27	586
50	0	0	0	0.785	27.43	583	27.4	584
60	0	0	0	0.785	27.55	581	27.52	581
70	0	0	0	0.785	27.67	578	27.64	579
80	0	0	0	0.785	27.79	576	27.76	577
90	0	0	0	0.785	27.91	573	27.88	574
100	0	0	0	0.785	28.02	571	28	572
110	0	0	0	0.785	28.09	570	28.09	570
120	0	0	0	0.785	28.17	568	28.17	568
130	0	0	0	0.785	28.25	567	28.25	567
167	0	0	0	0.785	28.53	561	28.53	561
212	0	0	0	0.785	28.87	555	28.87	555
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>338 OF 360</p> </div>	Indicates Latest Revision		Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH812.338</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 2000 LBS</p> </div>						

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.682	43.16	2000	43.16	2000*
0	0	0	0	0.785	42.62	592	42.58	593
30	0	0	0	0.785	43.02	587	42.99	588
40	0	0	0	0.785	43.14	586	43.11	586
50	0	0	0	0.785	43.26	584	43.23	584
60	0	0	0	0.785	43.39	582	43.35	583
70	0	0	0	0.785	43.51	581	43.48	581
80	0	0	0	0.785	43.63	579	43.6	580
90	0	0	0	0.785	43.75	578	43.72	578
100	0	0	0	0.785	43.86	577	43.84	577
110	0	0	0	0.785	43.94	576	43.94	576
120	0	0	0	0.785	44.02	575	44.02	575
130	0	0	0	0.785	44.1	574	44.1	574
167	0	0	0	0.785	44.38	570	44.38	570
212	0	0	0	0.785	44.73	566	44.73	566

* Design Condition

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET
339 OF 360

Indicates Latest Revision

Completely Revised



New Page

Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
636 - 24/7 ACSR/AW TENSION 2000 LBS

OH812.339

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-9	0-10	0-11	1-0	1-1	1-1	1-2	1-3	1-3	1-3
100.00	1-5	1-6	1-8	1-9	1-10	1-11	2-1	2-2	2-3	2-3
125.00	2-2	2-4	2-7	2-9	2-11	3-1	3-3	3-4	3-6	3-7
150.00	3-1	3-5	3-8	3-11	4-2	4-5	4-8	4-10	5-0	5-1
175.00	4-3	4-8	5-0	5-4	5-8	6-0	6-4	6-7	6-10	7-0
200.00	5-6	6-1	6-6	7-0	7-5	7-10	8-3	8-7	8-11	9-1

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-10	0-10	0-11	1-0	1-1	1-1	1-2	1-3	1-3	1-3
100.00	1-5	1-6	1-8	1-9	1-11	2-0	2-1	2-2	2-3	2-3
125.00	2-2	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-6	3-7
150.00	3-2	3-6	3-9	4-0	4-3	4-6	4-8	4-10	5-0	5-1
175.00	4-4	4-9	5-1	5-5	5-9	6-1	6-5	6-8	6-10	7-0
200.00	5-8	6-2	6-8	7-1	7-7	7-11	8-4	8-8	8-11	9-1

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-7	1-8	1-8	1-8	1-9	1-9	1-9	1-10	1-10	1-10
125.00	2-6	2-7	2-7	2-8	2-8	2-9	2-10	2-10	2-11	2-11
150.00	3-7	3-8	3-9	3-10	3-11	3-11	4-0	4-1	4-2	4-2
175.00	4-11	5-0	5-1	5-3	5-4	5-5	5-6	5-7	5-8	5-8
200.00	6-5	6-7	6-8	6-10	6-11	7-1	7-2	7-3	7-5	7-5
225.00	8-2	8-4	8-6	8-7	8-9	8-11	9-1	9-2	9-4	9-5
250.00	10-1	10-3	10-5	10-8	10-10	11-0	11-2	11-4	11-7	11-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-7	1-8	1-8	1-8	1-9	1-9	1-10	1-10	1-10	1-10
125.00	2-6	2-7	2-7	2-8	2-9	2-9	2-10	2-10	2-11	2-11
150.00	3-8	3-8	3-9	3-10	3-11	4-0	4-0	4-1	4-2	4-2
175.00	4-11	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-8
200.00	6-6	6-7	6-9	6-10	6-11	7-1	7-2	7-4	7-5	7-5
225.00	8-2	8-4	8-6	8-8	8-10	8-11	9-1	9-3	9-4	9-5
250.00	10-1	10-4	10-6	10-8	10-11	11-1	11-3	11-5	11-7	11-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>341 OF 360</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH812.341
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-9	6-9	6-9	6-10	6-10	6-11	6-11	6-11	7-0	7-0
225.00	8-6	8-7	8-7	8-8	8-8	8-8	8-9	8-9	8-10	8-10
250.00	10-6	10-7	10-7	10-8	10-8	10-9	10-10	10-10	10-11	10-11
275.00	12-9	12-10	12-10	12-11	13-0	13-0	13-1	13-2	13-2	13-3
300.00	15-2	15-3	15-4	15-4	15-5	15-6	15-7	15-8	15-8	15-9
325.00	17-10	17-11	18-0	18-1	18-2	18-2	18-3	18-4	18-5	18-6
350.00	20-8	20-9	20-10	20-11	21-0	21-2	21-3	21-4	21-5	21-6
375.00	23-9	23-10	23-11	24-1	24-2	24-3	24-5	24-6	24-7	24-8
400.00	27-0	27-2	27-3	27-5	27-6	27-8	27-9	27-11	28-0	28-1
425.00	30-6	30-8	30-10	30-11	31-1	31-3	31-4	31-6	31-8	31-9
450.00	34-3	34-5	34-7	34-9	34-11	35-0	35-2	35-4	35-6	35-7
475.00	38-2	38-5	38-7	38-9	38-11	39-1	39-3	39-5	39-7	39-9
500.00	42-4	42-7	42-9	42-11	43-2	43-4	43-6	43-9	43-11	44-1

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-9	6-9	6-10	6-10	6-10	6-11	6-11	6-11	7-0	7-0
225.00	8-6	8-7	8-7	8-8	8-8	8-9	8-9	8-10	8-10	8-10
250.00	10-6	10-7	10-8	10-8	10-9	10-9	10-10	10-10	10-11	10-11
275.00	12-9	12-10	12-10	12-11	13-0	13-0	13-1	13-2	13-2	13-3
300.00	15-2	15-3	15-4	15-5	15-5	15-6	15-7	15-8	15-9	15-9
325.00	17-10	17-11	18-0	18-1	18-2	18-3	18-4	18-5	18-5	18-6
350.00	20-8	20-9	20-10	21-0	21-1	21-2	21-3	21-4	21-5	21-6
375.00	23-9	23-10	24-0	24-1	24-2	24-4	24-5	24-6	24-7	24-8
400.00	27-1	27-2	27-4	27-5	27-7	27-8	27-10	27-11	28-0	28-1
425.00	30-7	30-9	30-10	31-0	31-2	31-3	31-5	31-6	31-8	31-9
450.00	34-4	34-5	34-7	34-9	34-11	35-1	35-3	35-5	35-6	35-7
475.00	38-3	38-5	38-7	38-9	38-11	39-1	39-4	39-6	39-7	39-9
500.00	42-5	42-7	42-10	43-0	43-2	43-5	43-7	43-9	43-11	44-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>343 OF 360</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.343
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	10-8	10-8	10-8	10-9	10-9	10-9	10-10	10-10	10-11	10-11
275.00	12-11	12-11	12-11	13-0	13-0	13-1	13-1	13-2	13-2	13-2
300.00	15-4	15-5	15-5	15-6	15-6	15-7	15-7	15-8	15-8	15-9
325.00	18-0	18-1	18-1	18-2	18-3	18-3	18-4	18-4	18-5	18-5
350.00	20-11	21-0	21-0	21-1	21-2	21-2	21-3	21-4	21-4	21-5
375.00	24-0	24-1	24-2	24-3	24-3	24-4	24-5	24-6	24-7	24-7
400.00	27-4	27-5	27-6	27-7	27-8	27-9	27-10	27-11	27-11	28-0
425.00	30-11	31-0	31-1	31-2	31-3	31-4	31-5	31-6	31-7	31-8
450.00	34-8	34-9	34-10	34-11	35-1	35-2	35-3	35-4	35-5	35-6
475.00	38-8	38-9	38-10	39-0	39-1	39-2	39-4	39-5	39-6	39-7
500.00	42-10	43-0	43-1	43-3	43-4	43-6	43-7	43-9	43-10	43-11
525.00	47-4	47-5	47-7	47-9	47-10	48-0	48-1	48-3	48-5	48-6
550.00	52-0	52-1	52-3	52-5	52-7	52-9	52-10	53-0	53-2	53-3
575.00	56-10	57-0	57-2	57-4	57-6	57-8	57-10	58-0	58-2	58-4
600.00	62-0	62-2	62-4	62-6	62-8	62-11	63-1	63-3	63-5	63-7
625.00	67-4	67-6	67-9	67-11	68-1	68-4	68-6	68-8	68-11	69-1

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<div style="text-align: center;"> <p>SHEET</p> <p>344 OF 360</p> </div>	Indicates Latest Revision		Completely Revised	New Page	Information Removed	<div style="text-align: center;"> <p>OH812.344</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 2000 LBS</p> </div>					

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.682	34.15	2500	34.15	2500*
0	0	0	0	0.785	33.41	747	33.34	749
30	0	0	0	0.785	33.89	737	33.84	738
40	0	0	0	0.785	34.05	734	34	735
50	0	0	0	0.785	34.2	731	34.15	732
60	0	0	0	0.785	34.35	728	34.3	729
70	0	0	0	0.785	34.51	724	34.45	726
80	0	0	0	0.785	34.66	721	34.6	723
90	0	0	0	0.785	34.81	718	34.75	720
100	0	0	0	0.785	34.96	715	34.9	717
110	0	0	0	0.785	35.09	713	35.05	714
120	0	0	0	0.785	35.19	711	35.19	711
130	0	0	0	0.785	35.29	709	35.29	709
167	0	0	0	0.785	35.64	702	35.64	702
212	0	0	0	0.785	36.07	694	36.07	694

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>347 OF 360</p> </div>	Indicates Latest Revision	Completely Revised	<div style="border: 1px solid black; padding: 2px;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH812.347</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 2500 LBS</p> </div>					

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-1
100.00	0-11	1-1	1-2	1-4	1-6	1-7	1-8	1-10	1-11	2-0
125.00	1-5	1-8	1-10	2-1	2-4	2-6	2-8	2-10	3-0	3-1
150.00	2-0	2-4	2-8	3-0	3-4	3-7	3-10	4-1	4-4	4-6
175.00	2-9	3-3	3-8	4-1	4-6	4-11	5-3	5-7	5-11	6-1
200.00	3-7	4-3	4-10	5-4	5-11	6-4	6-10	7-3	7-8	7-11

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-1	1-1
100.00	0-11	1-1	1-3	1-5	1-6	1-8	1-9	1-10	1-11	2-0
125.00	1-6	1-9	1-11	2-2	2-4	2-7	2-9	2-11	3-0	3-1
150.00	2-1	2-6	2-10	3-1	3-5	3-8	3-11	4-2	4-4	4-6
175.00	2-11	3-4	3-10	4-3	4-8	5-0	5-4	5-8	5-11	6-1
200.00	3-9	4-5	5-0	5-7	6-1	6-7	7-0	7-5	7-8	7-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 348 OF 360	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH812.348
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-3	1-3	1-4	1-4	1-5	1-5	1-5	1-6	1-6	1-7
125.00	1-11	2-0	2-0	2-1	2-2	2-3	2-3	2-4	2-4	2-5
150.00	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6
175.00	3-9	3-11	4-0	4-1	4-3	4-4	4-5	4-7	4-8	4-9
200.00	4-11	5-1	5-3	5-5	5-6	5-8	5-10	5-11	6-1	6-2
225.00	6-3	6-5	6-7	6-10	7-0	7-2	7-4	7-6	7-8	7-10
250.00	7-8	7-11	8-2	8-5	8-8	8-10	9-1	9-3	9-6	9-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-6	1-7
125.00	1-11	2-0	2-1	2-1	2-2	2-3	2-3	2-4	2-5	2-5
150.00	2-9	2-11	3-0	3-1	3-2	3-3	3-4	3-4	3-5	3-6
175.00	3-10	3-11	4-0	4-2	4-3	4-5	4-6	4-7	4-8	4-9
200.00	5-0	5-1	5-3	5-5	5-7	5-9	5-10	6-0	6-2	6-3
225.00	6-3	6-6	6-8	6-10	7-1	7-3	7-5	7-7	7-9	7-10
250.00	7-9	8-0	8-3	8-6	8-9	8-11	9-2	9-4	9-7	9-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 349 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH812.349
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2500 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-11	2-11	3-0	3-0	3-1	3-1	3-2	3-2	3-3	3-3
175.00	4-0	4-0	4-1	4-2	4-2	4-3	4-3	4-4	4-4	4-5
200.00	5-2	5-3	5-4	5-5	5-5	5-6	5-7	5-8	5-9	5-9
225.00	6-7	6-8	6-9	6-10	6-11	7-0	7-1	7-2	7-3	7-4
250.00	8-1	8-3	8-4	8-5	8-6	8-8	8-9	8-10	8-11	9-0
275.00	9-10	9-11	10-1	10-2	10-4	10-5	10-7	10-8	10-10	10-11
300.00	11-8	11-10	12-0	12-2	12-4	12-5	12-7	12-9	12-11	13-0
325.00	13-9	13-11	14-1	14-3	14-5	14-7	14-9	14-11	15-1	15-3
350.00	15-11	16-2	16-4	16-7	16-9	16-11	17-2	17-4	17-7	17-9
375.00	18-3	18-6	18-9	19-0	19-3	19-6	19-8	19-11	20-2	20-4

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-11	3-0	3-0	3-1	3-1	3-1	3-2	3-2	3-3	3-3
175.00	4-0	4-0	4-1	4-2	4-2	4-3	4-4	4-4	4-5	4-5
200.00	5-3	5-3	5-4	5-5	5-6	5-7	5-7	5-8	5-9	5-9
225.00	6-7	6-8	6-9	6-10	6-11	7-0	7-1	7-2	7-3	7-4
250.00	8-2	8-3	8-4	8-6	8-7	8-8	8-9	8-11	9-0	9-1
275.00	9-10	10-0	10-1	10-3	10-4	10-6	10-7	10-9	10-10	11-0
300.00	11-9	11-11	12-1	12-2	12-4	12-6	12-8	12-9	12-11	13-1
325.00	13-9	14-0	14-2	14-4	14-6	14-8	14-10	15-0	15-2	15-4
350.00	16-0	16-2	16-5	16-7	16-10	17-0	17-3	17-5	17-7	17-9
375.00	18-4	18-7	18-10	19-1	19-4	19-7	19-9	20-0	20-3	20-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 350 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.350
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 2500 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.682	4.49	2992	4.48	3000*
0	0	0	0	0.785	3.49	1127	3.4	1157
30	0	0	0	0.785	4.09	962	4	984
40	0	0	0	0.785	4.27	920	4.18	940
50	0	0	0	0.785	4.45	883	4.36	901
60	0	0	0	0.785	4.63	850	4.54	867
70	0	0	0	0.785	4.8	820	4.7	836
80	0	0	0	0.785	4.96	793	4.87	808
90	0	0	0	0.785	5.12	769	5.03	783
100	0	0	0	0.785	5.27	747	5.18	759
110	0	0	0	0.785	5.38	731	5.33	738
120	0	0	0	0.785	5.48	719	5.48	719
130	0	0	0	0.785	5.57	707	5.57	707
167	0	0	0	0.785	5.89	669	5.89	669
212	0	0	0	0.785	6.27	629	6.27	629

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 353 OF 360		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH812.353
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 3000 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.682	18.04	2997	18.03	3000*
0	0	0	0	0.785	17.07	927	16.96	932
30	0	0	0	0.785	17.64	897	17.54	902
40	0	0	0	0.785	17.82	888	17.72	893
50	0	0	0	0.785	18.01	879	17.9	884
60	0	0	0	0.785	18.19	870	18.09	875
70	0	0	0	0.785	18.37	862	18.26	867
80	0	0	0	0.785	18.55	854	18.44	859
90	0	0	0	0.785	18.72	846	18.62	851
100	0	0	0	0.785	18.9	838	18.79	843
110	0	0	0	0.785	19.07	831	18.97	835
120	0	0	0	0.785	19.19	826	19.14	828
130	0	0	0	0.785	19.3	821	19.3	821
167	0	0	0	0.785	19.7	805	19.7	805
212	0	0	0	0.785	20.18	786	20.18	786

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 354 OF 360		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH812.354
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 3000 LBS											

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.682	28.32	2998	28.3	3000*
0	0	0	0	0.785	27.34	908	27.23	912
30	0	0	0	0.785	27.91	890	27.81	893
40	0	0	0	0.785	28.09	884	27.99	887
50	0	0	0	0.785	28.28	879	28.18	882
60	0	0	0	0.785	28.46	873	28.36	876
70	0	0	0	0.785	28.64	868	28.54	871
80	0	0	0	0.785	28.82	862	28.72	866
90	0	0	0	0.785	29	857	28.9	860
100	0	0	0	0.785	29.18	852	29.07	855
110	0	0	0	0.785	29.36	847	29.25	850
120	0	0	0	0.785	29.49	843	29.43	845
130	0	0	0	0.785	29.6	840	29.6	840
167	0	0	0	0.785	30.02	829	30.02	829
212	0	0	0	0.785	30.52	816	30.52	816
* Design Condition								

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>355 OF 360</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH812.355</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING</p> <p>636 - 24/7 ACSR/AW TENSION 3000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2- 4	2- 5	2- 5	2- 6	2- 6	2- 7	2- 7	2- 8	2- 9	2- 9
175.00	3- 2	3- 3	3- 4	3- 5	3- 5	3- 6	3- 7	3- 8	3- 8	3- 9
200.00	4- 2	4- 3	4- 4	4- 5	4- 6	4- 7	4- 8	4- 9	4-10	4-11
225.00	5- 4	5- 5	5- 6	5- 7	5- 9	5-10	5-11	6- 0	6- 1	6- 2
250.00	6- 7	6- 8	6-10	6-11	7- 1	7- 2	7- 4	7- 5	7- 6	7- 8
275.00	7-11	8- 1	8- 3	8- 5	8- 6	8- 8	8-10	9- 0	9- 1	9- 3
300.00	9- 5	9- 7	9-10	10- 0	10- 2	10- 4	10- 6	10- 8	10-10	11- 0
325.00	11- 1	11- 3	11- 6	11- 9	11-11	12- 2	12- 4	12- 7	12- 9	12-11
350.00	12-10	13- 1	13- 4	13- 7	13-10	14- 1	14- 4	14- 7	14- 9	15- 0
375.00	14- 9	15- 0	15- 4	15- 7	15-11	16- 2	16- 5	16- 9	17- 0	17- 3

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2- 5	2- 5	2- 6	2- 6	2- 7	2- 7	2- 8	2- 8	2- 9	2- 9
175.00	3- 3	3- 4	3- 4	3- 5	3- 6	3- 7	3- 7	3- 8	3- 9	3- 9
200.00	4- 3	4- 4	4- 5	4- 6	4- 7	4- 8	4- 9	4- 9	4-10	4-11
225.00	5- 4	5- 6	5- 7	5- 8	5- 9	5-10	6- 0	6- 1	6- 2	6- 3
250.00	6- 7	6- 9	6-10	7- 0	7- 1	7- 3	7- 4	7- 6	7- 7	7- 9
275.00	8- 0	8- 2	8- 4	8- 6	8- 7	8- 9	8-11	9- 1	9- 2	9- 4
300.00	9- 6	9- 9	9-11	10- 1	10- 3	10- 5	10- 7	10- 9	10-11	11- 1
325.00	11- 2	11- 5	11- 7	11-10	12- 1	12- 3	12- 6	12- 8	12-10	13- 1
350.00	13- 0	13- 3	13- 6	13- 9	14- 0	14- 3	14- 5	14- 8	14-11	15- 2
375.00	14-11	15- 2	15- 6	15- 9	16- 1	16- 4	16- 7	16-10	17- 2	17- 5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>358 OF 360</div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH812.358
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING 636 - 24/7 ACSR/AW TENSION 3000 LBS									

SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 1033.5 - 45/7 ACSR/AW CONDUCTOR. CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

G.O. 95 LIGHT LOADING CONDITION

1000 LB TENSION	813.3
1500 LB TENSION	813.11
2000 LB TENSION	813.19
2500 LB TENSION	813.27
3000 LB TENSION	813.35

G.O. 95 HEAVY LOADING CONDITION

1000 LB TENSION	813.43
1500 LB TENSION	813.51
2000 LB TENSION	813.59
2500 LB TENSION	813.67
3000 LB TENSION	813.75

SDG&E EXTRA HEAVY LOADING CONDITION

1000 LB TENSION	813.83
1500 LB TENSION	813.91
2000 LB TENSION	813.99
2500 LB TENSION	813.107
3000 LB TENSION	813.115

65 MPH LIGHT KNOWN LOCAL WIND CONDITION

1000 LB TENSION	813.123
1500 LB TENSION	813.131
2000 LB TENSION	813.139
2500 LB TENSION	813.147
3000 LB TENSION	813.155

65 MPH HEAVY KNOWN LOCAL WIND CONDITION

1000 LB TENSION	813.163
1500 LB TENSION	813.171
2000 LB TENSION	813.179
2500 LB TENSION	813.187
3000 LB TENSION	813.195

85 MPH LIGHT KNOWN LOCAL WIND CONDITION

1000 LB TENSION -----	813.203
1500 LB TENSION -----	813.211
2000 LB TENSION -----	813.219
2500 LB TENSION -----	813.227
3000 LB TENSION -----	813.235

85 MPH HEAVY KNOWN LOCAL WIND CONDITION

1000 LB TENSION	813.243
1500 LB TENSION	813.251
2000 LB TENSION	813.259
2500 LB TENSION	813.267
3000 LB TENSION	813.275

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SHEET 1 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.1
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	1033.5 - 45/7 ACSR/AW TABLE OF CONTENTS					

SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 1033.5 - 45/7 ACSR/AW CONDUCTOR. CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

1000 LB TENSION	813.283
1500 LB TENSION	813.291
2000 LB TENSION	813.299
2500 LB TENSION	813.307
3000 LB TENSION	813.315

111 MPH HEAVY KNOWN LOCAL WIND CONDITION

1000 LB TENSION	813.323
1500 LB TENSION	813.331
2000 LB TENSION	813.339
2500 LB TENSION	813.347
3000 LB TENSION	813.355

REFERENCE:

- a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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<div>SHEET</div> <div>2 OF 362</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.2
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	1033.5 - 45/7 ACSR/AW TABLE OF CONTENTS					

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.392	44.92	1000	44.92	1000*
25	0	0	0	1.134	44.9	815	44.89	815
30	0	0	0	1.134	44.96	814	44.95	814
40	0	0	0	1.134	45.09	812	45.08	812
50	0	0	0	1.134	45.21	810	45.2	810
60	0	0	0	1.134	45.34	807	45.33	808
70	0	0	0	1.134	45.46	805	45.45	806
80	0	0	0	1.134	45.59	803	45.58	803
90	0	0	0	1.134	45.71	801	45.7	801
100	0	0	0	1.134	45.83	799	45.82	799
110	0	0	0	1.134	45.96	797	45.94	797
120	0	0	0	1.134	46.08	795	46.07	795
130	0	0	0	1.134	46.19	794	46.19	794
167	0	0	0	1.134	46.49	789	46.49	789
212	0	0	0	1.134	46.82	783	46.82	783
* Design Condition								

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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OH813.5

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-11	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-5
100.00	1-8	1-9	1-11	2-0	2-1	2-2	2-3	2-5	2-6	2-6
125.00	2-7	2-9	2-11	3-1	3-3	3-5	3-7	3-9	3-10	4-0
150.00	3-9	4-0	4-3	4-6	4-9	4-11	5-2	5-4	5-7	5-9
175.00	5-1	5-5	5-9	6-1	6-5	6-9	7-0	7-4	7-7	7-10
200.00	6-7	7-1	7-7	8-0	8-5	8-9	9-2	9-6	9-11	10-2

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-11	1-0	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-5
100.00	1-8	1-9	1-11	2-0	2-1	2-2	2-4	2-5	2-6	2-6
125.00	2-7	2-9	3-0	3-2	3-3	3-5	3-7	3-9	3-10	4-0
150.00	3-9	4-0	4-3	4-6	4-9	5-0	5-2	5-5	5-7	5-9
175.00	5-1	5-5	5-10	6-2	6-5	6-9	7-1	7-4	7-7	7-10
200.00	6-8	7-1	7-7	8-0	8-5	8-10	9-3	9-7	9-11	10-2

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SHEET 6 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.6
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span:	200.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-9	1-9	1-9	1-10	1-10	1-10	1-11	1-11	1-11	2-0
125.00	2-8	2-9	2-9	2-10	2-11	2-11	3-0	3-0	3-1	3-1
150.00	3-11	3-11	4-0	4-1	4-2	4-3	4-3	4-4	4-5	4-6
175.00	5-3	5-5	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1
200.00	6-11	7-0	7-2	7-3	7-5	7-6	7-7	7-9	7-10	7-11
225.00	8-9	8-11	9-1	9-2	9-4	9-6	9-8	9-10	9-11	10-1
250.00	10-10	11-0	11-2	11-4	11-7	11-9	11-11	12-1	12-3	12-5

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-9	1-9	1-9	1-10	1-10	1-11	1-11	1-11	2-0	2-0
125.00	2-8	2-9	2-10	2-10	2-11	2-11	3-0	3-0	3-1	3-1
150.00	3-11	3-11	4-0	4-1	4-2	4-3	4-3	4-4	4-5	4-6
175.00	5-3	5-5	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1
200.00	6-11	7-0	7-2	7-3	7-5	7-6	7-8	7-9	7-10	8-0
225.00	8-9	8-11	9-1	9-3	9-4	9-6	9-8	9-10	9-11	10-1
250.00	10-10	11-0	11-2	11-5	11-7	11-9	11-11	12-1	12-3	12-6

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<div>SHEET 7 OF 362</div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH813.7
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-11	3-11	4-0	4-0	4-1	4-1	4-1	4-2	4-2	4-2
175.00	5-4	5-5	5-5	5-6	5-6	5-7	5-7	5-8	5-8	5-9
200.00	7-0	7-0	7-1	7-2	7-2	7-3	7-4	7-4	7-5	7-6
225.00	8-10	8-11	9-0	9-1	9-1	9-2	9-3	9-4	9-5	9-5
250.00	10-11	11-0	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8
275.00	13-3	13-4	13-5	13-6	13-8	13-9	13-10	13-11	14-0	14-2
300.00	15-9	15-10	16-0	16-1	16-3	16-4	16-6	16-7	16-9	16-10
325.00	18-6	18-8	18-9	18-11	19-1	19-3	19-4	19-6	19-8	19-9
350.00	21-6	21-8	21-10	22-0	22-2	22-4	22-6	22-8	22-10	22-11
375.00	24-8	24-10	25-1	25-3	25-5	25-7	25-10	26-0	26-2	26-4

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-11	4-0	4-0	4-0	4-1	4-1	4-1	4-2	4-2	4-2
175.00	5-4	5-5	5-5	5-6	5-6	5-7	5-7	5-8	5-8	5-9
200.00	7-0	7-1	7-1	7-2	7-2	7-3	7-4	7-4	7-5	7-6
225.00	8-10	8-11	9-0	9-1	9-2	9-2	9-3	9-4	9-5	9-6
250.00	10-11	11-0	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8
275.00	13-3	13-4	13-5	13-7	13-8	13-9	13-10	13-11	14-1	14-2
300.00	15-9	15-11	16-0	16-2	16-3	16-4	16-6	16-7	16-9	16-10
325.00	18-6	18-8	18-10	18-11	19-1	19-3	19-4	19-6	19-8	19-10
350.00	21-6	21-8	21-10	22-0	22-2	22-4	22-6	22-8	22-10	23-0
375.00	24-8	24-10	25-1	25-3	25-5	25-8	25-10	26-0	26-2	26-5

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SHEET 8 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.8
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-1	7-1	7-1	7-2	7-2	7-2	7-3	7-3	7-3	7-4
225.00	8-11	9-0	9-0	9-0	9-1	9-1	9-2	9-2	9-3	9-3
250.00	11-0	11-1	11-1	11-2	11-3	11-3	11-4	11-4	11-5	11-5
275.00	13-4	13-5	13-5	13-6	13-7	13-8	13-8	13-9	13-10	13-10
300.00	15-11	15-11	16-0	16-1	16-2	16-3	16-4	16-4	16-5	16-6
325.00	18-8	18-9	18-10	18-11	19-0	19-1	19-2	19-3	19-4	19-5
350.00	21-8	21-9	21-10	21-11	22-0	22-1	22-3	22-4	22-5	22-6
375.00	24-10	25-0	25-1	25-2	25-4	25-5	25-6	25-8	25-9	25-10
400.00	28-4	28-5	28-7	28-8	28-10	28-11	29-1	29-2	29-4	29-5
425.00	32-0	32-2	32-3	32-5	32-7	32-8	32-10	33-0	33-1	33-3
450.00	35-11	36-1	36-3	36-5	36-6	36-8	36-10	37-0	37-2	37-4
475.00	40-0	40-3	40-5	40-7	40-9	40-11	41-1	41-3	41-5	41-7
500.00	44-5	44-7	44-10	45-0	45-2	45-5	45-7	45-9	46-0	46-2

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-1	7-1	7-1	7-2	7-2	7-2	7-3	7-3	7-3	7-4
225.00	8-11	9-0	9-0	9-0	9-1	9-1	9-2	9-2	9-3	9-3
250.00	11-0	11-1	11-1	11-2	11-3	11-3	11-4	11-4	11-5	11-5
275.00	13-4	13-5	13-6	13-6	13-7	13-8	13-8	13-9	13-10	13-10
300.00	15-11	15-11	16-0	16-1	16-2	16-3	16-4	16-4	16-5	16-6
325.00	18-8	18-9	18-10	18-11	19-0	19-1	19-2	19-3	19-4	19-5
350.00	21-8	21-9	21-10	21-11	22-0	22-2	22-3	22-4	22-5	22-6
375.00	24-10	25-0	25-1	25-2	25-4	25-5	25-6	25-8	25-9	25-10
400.00	28-4	28-5	28-7	28-8	28-10	28-11	29-1	29-2	29-4	29-5
425.00	32-0	32-2	32-3	32-5	32-7	32-9	32-10	33-0	33-2	33-3
450.00	35-11	36-1	36-3	36-5	36-7	36-8	36-10	37-0	37-2	37-4
475.00	40-1	40-3	40-5	40-7	40-9	40-11	41-1	41-3	41-6	41-8
500.00	44-5	44-7	44-10	45-0	45-3	45-5	45-7	45-10	46-0	46-2

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 9 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.9
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.392	29.51	1495	29.41	1500*
25	0	0	0	1.134	29.45	1220	29.34	1224
30	0	0	0	1.134	29.54	1216	29.44	1221
40	0	0	0	1.134	29.73	1209	29.62	1213
50	0	0	0	1.134	29.92	1201	29.81	1206
60	0	0	0	1.134	30.1	1194	29.99	1199
70	0	0	0	1.134	30.29	1187	30.17	1192
80	0	0	0	1.134	30.47	1180	30.35	1185
90	0	0	0	1.134	30.65	1174	30.53	1178
100	0	0	0	1.134	30.83	1167	30.71	1171
110	0	0	0	1.134	31.01	1160	30.89	1165
120	0	0	0	1.134	31.19	1154	31.07	1158
130	0	0	0	1.134	31.37	1148	31.24	1152
167	0	0	0	1.134	31.95	1127	31.89	1129
212	0	0	0	1.134	32.42	1111	32.42	1111

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>13 OF 362</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH813.13
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-2
100.00	1-0	1-2	1-4	1-6	1-7	1-9	1-10	1-11	2-1	2-2
125.00	1-7	1-10	2-1	2-3	2-6	2-8	2-10	3-0	3-2	3-4
150.00	2-4	2-8	3-0	3-4	3-7	3-10	4-1	4-4	4-7	4-10
175.00	3-2	3-7	4-1	4-6	4-11	5-3	5-7	5-11	6-3	6-7
200.00	4-1	4-9	5-4	5-10	6-4	6-10	7-4	7-9	8-2	8-7

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-1	1-2	1-3
100.00	1-0	1-2	1-4	1-6	1-7	1-9	1-10	2-0	2-1	2-2
125.00	1-7	1-10	2-1	2-4	2-6	2-9	2-11	3-1	3-3	3-4
150.00	2-4	2-8	3-0	3-4	3-8	3-11	4-2	4-5	4-8	4-10
175.00	3-2	3-8	4-1	4-7	4-11	5-4	5-8	6-0	6-4	6-7
200.00	4-2	4-9	5-5	5-11	6-6	6-11	7-5	7-10	8-3	8-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 14 OF 362		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH813.14
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS											

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-1	1-2	1-3	1-3	1-4	1-4	1-4	1-5	1-5	1-6
125.00	1-9	1-10	1-11	2-0	2-0	2-1	2-2	2-2	2-3	2-4
150.00	2-6	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4
175.00	3-5	3-7	3-9	3-10	4-0	4-1	4-2	4-4	4-5	4-7
200.00	4-6	4-8	4-10	5-0	5-2	5-4	5-6	5-8	5-10	5-11
225.00	5-8	5-11	6-2	6-4	6-7	6-9	7-0	7-2	7-4	7-6
250.00	7-0	7-4	7-7	7-10	8-1	8-4	8-7	8-10	9-1	9-3

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6
125.00	1-9	1-10	1-11	2-0	2-1	2-1	2-2	2-3	2-3	2-4
150.00	2-7	2-8	2-9	2-10	2-11	3-1	3-2	3-3	3-4	3-5
175.00	3-6	3-8	3-9	3-11	4-0	4-2	4-3	4-5	4-6	4-7
200.00	4-7	4-9	4-11	5-1	5-3	5-5	5-7	5-9	5-10	6-0
225.00	5-9	6-0	6-3	6-5	6-8	6-10	7-1	7-3	7-5	7-7
250.00	7-2	7-5	7-8	7-11	8-3	8-6	8-8	8-11	9-2	9-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>15 OF 362</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.15</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 1500 LBS</p> </div>						

Stringing Sag Table Using Initial Sag							Ruling Span:		300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-7	2-8	2-8	2-9	2-9	2-10	2-10	2-11	2-11	3-0
175.00	3-6	3-7	3-8	3-8	3-9	3-10	3-10	3-11	4-0	4-1
200.00	4-7	4-8	4-9	4-10	4-11	5-0	5-1	5-2	5-3	5-3
225.00	5-10	5-11	6-0	6-1	6-3	6-4	6-5	6-6	6-7	6-8
250.00	7-2	7-4	7-5	7-7	7-8	7-10	7-11	8-0	8-2	8-3
275.00	8-8	8-10	9-0	9-2	9-3	9-5	9-7	9-9	9-10	10-0
300.00	10-4	10-6	10-8	10-11	11-1	11-3	11-5	11-7	11-9	11-11
325.00	12-2	12-4	12-7	12-9	13-0	13-2	13-5	13-7	13-9	14-0
350.00	14-1	14-4	14-7	14-10	15-1	15-4	15-6	15-9	16-0	16-2
375.00	16-2	16-5	16-9	17-0	17-3	17-7	17-10	18-1	18-4	18-7

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-7	2-8	2-8	2-9	2-9	2-10	2-10	2-11	2-11	3-0
175.00	3-7	3-7	3-8	3-9	3-9	3-10	3-11	4-0	4-0	4-1
200.00	4-8	4-9	4-10	4-10	4-11	5-0	5-1	5-2	5-3	5-4
225.00	5-10	6-0	6-1	6-2	6-3	6-4	6-6	6-7	6-8	6-9
250.00	7-3	7-4	7-6	7-7	7-9	7-10	8-0	8-1	8-3	8-4
275.00	8-9	8-11	9-1	9-3	9-4	9-6	9-8	9-10	9-11	10-1
300.00	10-5	10-7	10-10	11-0	11-2	11-4	11-6	11-8	11-10	12-0
325.00	12-3	12-5	12-8	12-11	13-1	13-4	13-6	13-8	13-11	14-1
350.00	14-2	14-5	14-8	14-11	15-2	15-5	15-8	15-11	16-1	16-4
375.00	16-4	16-7	16-11	17-2	17-5	17-9	18-0	18-3	18-6	18-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 16 OF 362		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH813.16
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS											

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-8	4-8	4-9	4-9	4-10	4-10	4-11	4-11	5-0	5-0
225.00	5-10	5-11	6-0	6-0	6-1	6-2	6-2	6-3	6-4	6-4
250.00	7-3	7-4	7-5	7-5	7-6	7-7	7-8	7-9	7-10	7-10
275.00	8-9	8-10	8-11	9-0	9-1	9-2	9-3	9-4	9-5	9-6
300.00	10-5	10-6	10-8	10-9	10-10	10-11	11-1	11-2	11-3	11-4
325.00	12-3	12-4	12-6	12-7	12-9	12-10	13-0	13-1	13-2	13-4
350.00	14-2	14-4	14-6	14-8	14-9	14-11	15-0	15-2	15-4	15-5
375.00	16-4	16-6	16-8	16-10	16-11	17-1	17-3	17-5	17-7	17-9
400.00	18-7	18-9	18-11	19-1	19-4	19-6	19-8	19-10	20-0	20-2
425.00	21-0	21-2	21-5	21-7	21-10	22-0	22-2	22-5	22-7	22-10
450.00	23-6	23-9	24-0	24-3	24-5	24-8	24-11	25-2	25-4	25-7
475.00	26-3	26-6	26-9	27-0	27-3	27-6	27-9	28-0	28-3	28-6
500.00	29-1	29-4	29-8	29-11	30-3	30-6	30-9	31-1	31-4	31-7

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-8	4-8	4-9	4-10	4-10	4-11	4-11	5-0	5-0	5-1
225.00	5-11	5-11	6-0	6-1	6-2	6-2	6-3	6-4	6-4	6-5
250.00	7-3	7-4	7-5	7-6	7-7	7-8	7-8	7-9	7-10	7-11
275.00	8-10	8-11	9-0	9-1	9-2	9-3	9-4	9-5	9-6	9-7
300.00	10-6	10-7	10-8	10-10	10-11	11-0	11-1	11-2	11-4	11-5
325.00	12-4	12-5	12-7	12-8	12-10	12-11	13-0	13-2	13-3	13-5
350.00	14-3	14-5	14-7	14-9	14-10	15-0	15-1	15-3	15-5	15-6
375.00	16-5	16-7	16-9	16-11	17-1	17-3	17-4	17-6	17-8	17-10
400.00	18-8	18-10	19-1	19-3	19-5	19-7	19-9	19-11	20-1	20-4
425.00	21-1	21-4	21-6	21-9	21-11	22-1	22-4	22-6	22-9	22-11
450.00	23-8	23-11	24-1	24-4	24-7	24-10	25-0	25-3	25-6	25-9
475.00	26-4	26-7	26-11	27-2	27-5	27-8	27-11	28-2	28-5	28-8
500.00	29-3	29-6	29-10	30-1	30-5	30-8	30-11	31-3	31-6	31-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 17 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH813.17
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS										

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.392	3.62	1925	3.49	2000*
25	0	0	0	1.134	3.54	1605	3.38	1681
30	0	0	0	1.134	3.65	1556	3.49	1628
40	0	0	0	1.134	3.86	1470	3.7	1534
50	0	0	0	1.134	4.07	1396	3.91	1454
60	0	0	0	1.134	4.27	1332	4.11	1384
70	0	0	0	1.134	4.46	1275	4.3	1322
80	0	0	0	1.134	4.64	1225	4.48	1268
90	0	0	0	1.134	4.82	1180	4.66	1219
100	0	0	0	1.134	4.99	1139	4.84	1175
110	0	0	0	1.134	5.16	1102	5	1136
120	0	0	0	1.134	5.32	1069	5.17	1100
130	0	0	0	1.134	5.48	1038	5.33	1067
167	0	0	0	1.134	5.85	973	5.84	974
212	0	0	0	1.134	6.2	917	6.2	918
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 19 OF 362		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH813.19
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS											

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.392	14.23	1967	13.99	2000*
25	0	0	0	1.134	14.13	1613	13.87	1643
30	0	0	0	1.134	14.26	1599	13.99	1629
40	0	0	0	1.134	14.5	1573	14.23	1601
50	0	0	0	1.134	14.73	1548	14.47	1576
60	0	0	0	1.134	14.96	1524	14.7	1551
70	0	0	0	1.134	15.19	1501	14.93	1527
80	0	0	0	1.134	15.42	1480	15.16	1505
90	0	0	0	1.134	15.64	1459	15.38	1483
100	0	0	0	1.134	15.86	1439	15.6	1462
110	0	0	0	1.134	16.08	1419	15.82	1443
120	0	0	0	1.134	16.3	1401	16.04	1423
130	0	0	0	1.134	16.51	1383	16.25	1405
167	0	0	0	1.134	17.27	1323	17.01	1343
212	0	0	0	1.134	17.79	1285	17.79	1285

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>20 OF 362</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH813.20
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.392	22.18	1977	21.92	2000*
25	0	0	0	1.134	22.08	1617	21.8	1638
30	0	0	0	1.134	22.21	1608	21.93	1629
40	0	0	0	1.134	22.45	1591	22.17	1611
50	0	0	0	1.134	22.69	1575	22.41	1594
60	0	0	0	1.134	22.93	1558	22.65	1577
70	0	0	0	1.134	23.17	1543	22.89	1561
80	0	0	0	1.134	23.4	1528	23.12	1546
90	0	0	0	1.134	23.64	1513	23.35	1531
100	0	0	0	1.134	23.87	1498	23.58	1516
110	0	0	0	1.134	24.09	1484	23.81	1502
120	0	0	0	1.134	24.32	1471	24.04	1488
130	0	0	0	1.134	24.54	1458	24.26	1475
167	0	0	0	1.134	25.36	1412	25.07	1428
212	0	0	0	1.134	26	1378	26	1378
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>21 OF 362</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.21</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 2000 LBS</p> </div>						

Completely Revised

X New Page

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

OH813.21

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3
125.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-11
150.00	1-10	2-0	2-1	2-2	2-4	2-5	2-6	2-7	2-9	2-10
175.00	2-6	2-8	2-10	3-0	3-2	3-3	3-5	3-7	3-8	3-10
200.00	3-3	3-6	3-8	3-11	4-1	4-4	4-6	4-8	4-10	5-0
225.00	4-2	4-5	4-8	4-11	5-2	5-5	5-8	5-11	6-1	6-4
250.00	5-1	5-5	5-9	6-1	6-5	6-9	7-0	7-3	7-7	7-10

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3
125.00	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-11	2-0
150.00	1-11	2-1	2-2	2-3	2-5	2-6	2-7	2-9	2-10	2-11
175.00	2-7	2-10	2-11	3-1	3-3	3-5	3-7	3-8	3-10	3-11
200.00	3-5	3-8	3-10	4-1	4-3	4-5	4-8	4-10	5-0	5-2
225.00	4-4	4-7	4-11	5-2	5-5	5-8	5-10	6-1	6-4	6-6
250.00	5-4	5-8	6-0	6-4	6-8	7-0	7-3	7-6	7-10	8-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 23 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.23
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-11	2-0	2-0	2-1	2-2	2-2	2-3	2-3	2-4	2-5
175.00	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-1	3-2	3-3
200.00	3-5	3-6	3-7	3-8	3-10	3-11	4-0	4-1	4-2	4-3
225.00	4-3	4-5	4-7	4-8	4-10	4-11	5-0	5-2	5-3	5-5
250.00	5-3	5-5	5-7	5-9	5-11	6-1	6-3	6-4	6-6	6-8
275.00	6-5	6-7	6-10	7-0	7-2	7-4	7-6	7-8	7-11	8-1
300.00	7-7	7-10	8-1	8-4	8-6	8-9	9-0	9-2	9-5	9-7
325.00	8-11	9-3	9-6	9-9	10-0	10-3	10-6	10-9	11-0	11-3
350.00	10-4	10-8	11-0	11-4	11-7	11-11	12-3	12-6	12-9	13-1
375.00	11-11	12-3	12-8	13-0	13-4	13-8	14-0	14-4	14-8	15-0

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-0	2-0	2-1	2-2	2-2	2-3	2-4	2-4	2-5	2-5
175.00	2-8	2-9	2-10	2-11	3-0	3-1	3-1	3-2	3-3	3-4
200.00	3-6	3-7	3-8	3-10	3-11	4-0	4-1	4-2	4-3	4-4
225.00	4-5	4-7	4-8	4-10	4-11	5-1	5-2	5-3	5-5	5-6
250.00	5-5	5-7	5-9	5-11	6-1	6-3	6-5	6-6	6-8	6-10
275.00	6-7	6-9	7-0	7-2	7-4	7-7	7-9	7-11	8-1	8-3
300.00	7-10	8-1	8-4	8-6	8-9	9-0	9-2	9-5	9-7	9-10
325.00	9-3	9-6	9-9	10-0	10-3	10-6	10-9	11-0	11-3	11-6
350.00	10-8	11-0	11-4	11-8	11-11	12-3	12-6	12-10	13-1	13-4
375.00	12-3	12-8	13-0	13-4	13-8	14-0	14-4	14-8	15-0	15-4

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SHEET
24 OF 362

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.24

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.392	2.99	2328	2.79	2500*
25	0	0	0	1.134	2.88	1970	2.64	2152
30	0	0	0	1.134	3	1889	2.76	2057
40	0	0	0	1.134	3.25	1749	3	1894
50	0	0	0	1.134	3.48	1633	3.23	1759
60	0	0	0	1.134	3.7	1536	3.45	1646
70	0	0	0	1.134	3.91	1453	3.66	1549
80	0	0	0	1.134	4.11	1381	3.87	1467
90	0	0	0	1.134	4.31	1318	4.07	1395
100	0	0	0	1.134	4.5	1263	4.26	1332
110	0	0	0	1.134	4.68	1214	4.45	1277
120	0	0	0	1.134	4.86	1170	4.63	1227
130	0	0	0	1.134	5.03	1130	4.81	1183
167	0	0	0	1.134	5.43	1048	5.41	1051
212	0	0	0	1.134	5.8	980	5.79	983
* Design Condition								

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SHEET 27 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.27
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS					

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.392	11.57	2414	11.17	2500*
25	0	0	0	1.134	11.44	1989	10.99	2069
30	0	0	0	1.134	11.58	1965	11.14	2042
40	0	0	0	1.134	11.87	1917	11.43	1991
50	0	0	0	1.134	12.15	1873	11.71	1943
60	0	0	0	1.134	12.43	1832	11.99	1898
70	0	0	0	1.134	12.7	1793	12.26	1857
80	0	0	0	1.134	12.96	1757	12.53	1817
90	0	0	0	1.134	13.22	1723	12.79	1780
100	0	0	0	1.134	13.48	1690	13.05	1745
110	0	0	0	1.134	13.73	1659	13.31	1712
120	0	0	0	1.134	13.98	1630	13.56	1681
130	0	0	0	1.134	14.22	1603	13.8	1651
167	0	0	0	1.134	15.09	1511	14.68	1553
212	0	0	0	1.134	15.74	1450	15.69	1454
* Design Condition								

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 28 OF 362		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH813.28
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 300' & 400' RULING SPAN G095 LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS											

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.392	17.94	2439	17.49	2500*
25	0	0	0	1.134	17.79	2002	17.3	2058
30	0	0	0	1.134	17.94	1985	17.45	2040
40	0	0	0	1.134	18.24	1953	17.75	2006
50	0	0	0	1.134	18.53	1923	18.04	1974
60	0	0	0	1.134	18.82	1894	18.33	1943
70	0	0	0	1.134	19.1	1866	18.62	1914
80	0	0	0	1.134	19.38	1839	18.9	1886
90	0	0	0	1.134	19.66	1814	19.18	1859
100	0	0	0	1.134	19.93	1789	19.45	1833
110	0	0	0	1.134	20.2	1766	19.72	1808
120	0	0	0	1.134	20.47	1743	19.99	1784
130	0	0	0	1.134	20.73	1721	20.25	1761
167	0	0	0	1.134	21.68	1647	21.2	1683
212	0	0	0	1.134	22.52	1587	22.31	1601

* Design Condition

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B						E					
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.29

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-10	0-11	1-0
100.00	0-7	0-8	0-10	1-0	1-2	1-3	1-5	1-7	1-8	1-10
125.00	0-10	1-1	1-4	1-6	1-9	2-0	2-3	2-5	2-7	2-10
150.00	1-3	1-6	1-10	2-3	2-7	2-11	3-2	3-6	3-9	4-0
175.00	1-8	2-1	2-6	3-0	3-6	3-11	4-4	4-9	5-2	5-6
200.00	2-3	2-9	3-4	3-11	4-7	5-2	5-8	6-3	6-9	7-2

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1
100.00	0-7	0-9	0-11	1-1	1-3	1-4	1-6	1-8	1-9	1-10
125.00	0-11	1-2	1-5	1-8	1-11	2-2	2-4	2-7	2-9	2-11
150.00	1-4	1-8	2-0	2-5	2-9	3-1	3-5	3-8	3-11	4-3
175.00	1-9	2-3	2-9	3-3	3-9	4-2	4-7	5-0	5-5	5-9
200.00	2-4	2-11	3-7	4-3	4-11	5-6	6-0	6-7	7-0	7-6

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SHEET 30 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.30
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span: 300.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-6	1-7	1-8	1-8	1-9	1-10	1-11	1-11	2-0	2-1
175.00	2-0	2-1	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10
200.00	2-8	2-9	2-11	3-0	3-2	3-3	3-4	3-5	3-7	3-8
225.00	3-4	3-6	3-8	3-10	4-0	4-1	4-3	4-4	4-6	4-8
250.00	4-2	4-4	4-6	4-9	4-11	5-1	5-3	5-5	5-7	5-9
275.00	5-0	5-3	5-6	5-8	5-11	6-2	6-4	6-6	6-9	6-11
300.00	6-0	6-3	6-6	6-9	7-0	7-4	7-6	7-9	8-0	8-3
325.00	7-0	7-4	7-8	8-0	8-3	8-7	8-10	9-2	9-5	9-8
350.00	8-1	8-6	8-10	9-3	9-7	9-11	10-3	10-7	10-11	11-3
375.00	9-4	9-9	10-2	10-7	11-0	11-5	11-9	12-2	12-6	12-11

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-7	1-8	1-9	1-9	1-10	1-11	2-0	2-0	2-1	2-2
175.00	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
200.00	2-10	2-11	3-1	3-2	3-3	3-5	3-6	3-7	3-9	3-10
225.00	3-7	3-9	3-10	4-0	4-2	4-4	4-5	4-7	4-8	4-10
250.00	4-5	4-7	4-9	5-0	5-2	5-4	5-6	5-8	5-10	6-0
275.00	5-4	5-7	5-9	6-0	6-3	6-5	6-8	6-10	7-0	7-3
300.00	6-4	6-7	6-11	7-2	7-5	7-8	7-11	8-2	8-4	8-7
325.00	7-5	7-9	8-1	8-5	8-8	9-0	9-3	9-7	9-10	10-1
350.00	8-8	9-0	9-5	9-9	10-1	10-5	10-9	11-1	11-5	11-8
375.00	9-11	10-4	10-9	11-2	11-7	12-0	12-4	12-9	13-1	13-5

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 32 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH813.32
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-9	2-9	2-10	2-11	3-0	3-1	3-2	3-2	3-3	3-4
225.00	3-5	3-6	3-7	3-8	3-9	3-11	4-0	4-1	4-2	4-2
250.00	4-3	4-4	4-6	4-7	4-8	4-9	4-11	5-0	5-1	5-2
275.00	5-1	5-3	5-5	5-6	5-8	5-10	5-11	6-1	6-2	6-3
300.00	6-1	6-3	6-5	6-7	6-9	6-11	7-1	7-2	7-4	7-6
325.00	7-2	7-4	7-7	7-9	7-11	8-1	8-3	8-5	8-7	8-9
350.00	8-4	8-6	8-9	9-0	9-2	9-5	9-7	9-9	10-0	10-2
375.00	9-6	9-9	10-1	10-4	10-6	10-9	11-0	11-3	11-6	11-8
400.00	10-10	11-2	11-5	11-9	12-0	12-3	12-6	12-10	13-1	13-4
425.00	12-3	12-7	12-11	13-3	13-6	13-10	14-2	14-5	14-9	15-0
450.00	13-9	14-1	14-6	14-10	15-2	15-6	15-10	16-2	16-6	16-10
475.00	15-4	15-9	16-1	16-6	16-11	17-4	17-8	18-1	18-5	18-9
500.00	16-11	17-5	17-10	18-4	18-9	19-2	19-7	20-0	20-5	20-10

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-4	3-4	3-5
225.00	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4
250.00	4-5	4-6	4-8	4-9	4-10	4-11	5-1	5-2	5-3	5-4
275.00	5-4	5-6	5-7	5-9	5-10	6-0	6-1	6-3	6-4	6-6
300.00	6-4	6-6	6-8	6-10	7-0	7-2	7-3	7-5	7-7	7-9
325.00	7-5	7-8	7-10	8-0	8-2	8-5	8-7	8-9	8-11	9-1
350.00	8-8	8-10	9-1	9-4	9-6	9-9	9-11	10-1	10-4	10-6
375.00	9-11	10-2	10-5	10-8	10-11	11-2	11-5	11-7	11-10	12-1
400.00	11-3	11-7	11-10	12-2	12-5	12-8	13-0	13-3	13-6	13-9
425.00	12-9	13-1	13-5	13-9	14-0	14-4	14-8	14-11	15-3	15-6
450.00	14-4	14-8	15-0	15-5	15-9	16-1	16-5	16-9	17-1	17-5
475.00	15-11	16-4	16-9	17-2	17-6	17-11	18-3	18-8	19-0	19-5
500.00	17-8	18-1	18-7	19-0	19-5	19-10	20-3	20-8	21-1	21-6

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 33 OF 362		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH813.33
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING											
		1033.5 - 45/7 ACSR/AW TENSION 2500 LBS											

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.392	2.58	2702	2.32	3000*
25	0	0	0	1.134	2.44	2325	2.14	2652
30	0	0	0	1.134	2.57	2206	2.26	2510
40	0	0	0	1.134	2.83	2005	2.51	2264
50	0	0	0	1.134	3.08	1844	2.75	2063
60	0	0	0	1.134	3.32	1712	2.99	1899
70	0	0	0	1.134	3.54	1602	3.22	1763
80	0	0	0	1.134	3.76	1509	3.44	1649
90	0	0	0	1.134	3.97	1430	3.66	1552
100	0	0	0	1.134	4.17	1361	3.86	1469
110	0	0	0	1.134	4.37	1301	4.06	1397
120	0	0	0	1.134	4.55	1248	4.26	1334
130	0	0	0	1.134	4.73	1200	4.44	1278
167	0	0	0	1.134	5.15	1104	5.09	1118
212	0	0	0	1.134	5.54	1028	5.52	1030

* Design Condition

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C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 35 OF 362		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH813.35
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 3000 LBS											

* Design Condition

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 36 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.36
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 3000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.392	15.2	2873	14.55	3000*
25	0	0	0	1.134	15.01	2370	14.29	2488
30	0	0	0	1.134	15.18	2343	14.47	2458
40	0	0	0	1.134	15.52	2292	14.81	2401
50	0	0	0	1.134	15.86	2244	15.15	2348
60	0	0	0	1.134	16.18	2199	15.48	2298
70	0	0	0	1.134	16.51	2156	15.81	2250
80	0	0	0	1.134	16.83	2116	16.13	2206
90	0	0	0	1.134	17.14	2077	16.45	2164
100	0	0	0	1.134	17.45	2041	16.76	2124
110	0	0	0	1.134	17.75	2007	17.07	2086
120	0	0	0	1.134	18.05	1974	17.37	2050
130	0	0	0	1.134	18.34	1942	17.67	2016
167	0	0	0	1.134	19.4	1838	18.73	1902
212	0	0	0	1.134	20.38	1750	19.96	1786
* Design Condition								

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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SHEET
37 OF 362

Indicates Latest Revision

Completely Revised



New Page

Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.37

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-3	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-9	1-10
175.00	1-8	1-9	1-10	1-11	2-1	2-2	2-3	2-4	2-5	2-6
200.00	2-2	2-3	2-5	2-7	2-8	2-10	2-11	3-1	3-2	3-3
225.00	2-9	2-11	3-1	3-3	3-5	3-7	3-8	3-10	4-0	4-2
250.00	3-4	3-7	3-9	4-0	4-2	4-5	4-7	4-9	4-11	5-1
275.00	4-1	4-4	4-7	4-10	5-1	5-4	5-6	5-9	6-0	6-2
300.00	4-10	5-2	5-5	5-9	6-0	6-4	6-7	6-10	7-1	7-4
325.00	5-8	6-1	6-5	6-9	7-1	7-5	7-9	8-0	8-4	8-8
350.00	6-7	7-0	7-5	7-10	8-3	8-7	9-0	9-4	9-8	10-0
375.00	7-7	8-1	8-6	9-0	9-5	9-10	10-4	10-8	11-1	11-6

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-4	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-11	1-11
175.00	1-10	1-11	2-0	2-2	2-3	2-4	2-5	2-6	2-7	2-8
200.00	2-5	2-6	2-8	2-9	2-11	3-0	3-2	3-3	3-4	3-6
225.00	3-0	3-2	3-4	3-6	3-8	3-10	4-0	4-1	4-3	4-5
250.00	3-9	3-11	4-2	4-4	4-6	4-9	4-11	5-1	5-3	5-5
275.00	4-6	4-9	5-0	5-3	5-6	5-9	5-11	6-2	6-4	6-7
300.00	5-4	5-8	6-0	6-3	6-6	6-10	7-1	7-4	7-7	7-10
325.00	6-3	6-8	7-0	7-4	7-8	8-0	8-4	8-7	8-11	9-2
350.00	7-3	7-8	8-1	8-6	8-11	9-3	9-8	10-0	10-4	10-8
375.00	8-4	8-10	9-4	9-9	10-3	10-8	11-1	11-5	11-10	12-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 40 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.40
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 3000 LBS					

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	2.461	52.65	1000	52.65	1000*
0.0	0.00	0.00	0.00	1.134	52.60	461	52.59	461
30.0	0.00	0.00	0.00	1.134	52.82	459	52.81	460
40.0	0.00	0.00	0.00	1.134	52.89	459	52.88	459
50.0	0.00	0.00	0.00	1.134	52.96	458	52.95	458
60.0	0.00	0.00	0.00	1.134	53.04	458	53.02	458
70.0	0.00	0.00	0.00	1.134	53.11	457	53.09	457
80.0	0.00	0.00	0.00	1.134	53.17	457	53.16	457
90.0	0.00	0.00	0.00	1.134	53.23	456	53.23	456
100.0	0.00	0.00	0.00	1.134	53.28	456	53.28	456
110.0	0.00	0.00	0.00	1.134	53.33	456	53.33	456
120.0	0.00	0.00	0.00	1.134	53.37	455	53.37	455
130.0	0.00	0.00	0.00	1.134	53.41	455	53.41	455
167.0	0.00	0.00	0.00	1.134	53.57	454	53.57	454
212.0	0.00	0.00	0.00	1.134	53.76	453	53.76	453


* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET 44 OF 362</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH813.44
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS									

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>45 OF 362</p> </div>	Indicates Latest Revision		Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH813.45</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 1000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag							Ruling Span:	200.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-2	3-2	3-2	3-2	3-2	3-3	3-3	3-3	3-3	3-3
125.00	4-11	4-11	4-11	5-0	5-0	5-0	5-1	5-1	5-1	5-1
150.00	7-1	7-1	7-2	7-2	7-3	7-3	7-4	7-4	7-4	7-5
175.00	9-8	9-8	9-9	9-9	9-10	9-11	9-11	10-0	10-0	10-1
200.00	12-7	12-8	12-9	12-10	12-10	12-11	13-0	13-1	13-1	13-2
225.00	15-11	16-1	16-2	16-3	16-4	16-5	16-6	16-7	16-8	16-8
250.00	19-9	19-10	19-11	20-1	20-2	20-3	20-5	20-6	20-7	20-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-2	3-2	3-2	3-2	3-2	3-3	3-3	3-3	3-3	3-3
125.00	4-11	4-11	5-0	5-0	5-0	5-0	5-1	5-1	5-1	5-1
150.00	7-1	7-1	7-2	7-2	7-3	7-3	7-4	7-4	7-4	7-5
175.00	9-8	9-8	9-9	9-10	9-10	9-11	9-11	10-0	10-0	10-1
200.00	12-7	12-8	12-9	12-10	12-11	12-11	13-0	13-1	13-1	13-2
225.00	16-0	16-1	16-2	16-3	16-4	16-5	16-6	16-7	16-8	16-8
250.00	19-9	19-10	20-0	20-1	20-2	20-4	20-5	20-6	20-7	20-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 47 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.47
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	7-2	7-2	7-2	7-2	7-2	7-3	7-3	7-3	7-3	7-3
175.00	9-9	9-9	9-9	9-10	9-10	9-10	9-10	9-11	9-11	9-11
200.00	12-9	12-9	12-9	12-10	12-10	12-10	12-11	12-11	12-11	13-0
225.00	16-1	16-2	16-2	16-3	16-3	16-4	16-4	16-5	16-5	16-5
250.00	19-11	20-0	20-0	20-1	20-1	20-2	20-3	20-3	20-4	20-4
275.00	24-2	24-3	24-3	24-4	24-5	24-5	24-6	24-7	24-7	24-8
300.00	28-10	28-10	28-11	29-0	29-1	29-2	29-3	29-3	29-4	29-5
325.00	33-10	33-11	34-0	34-1	34-2	34-3	34-4	34-5	34-6	34-7
350.00	39-4	39-6	39-7	39-8	39-9	39-10	39-11	40-0	40-1	40-2
375.00	45-4	45-5	45-6	45-8	45-9	45-10	46-0	46-1	46-2	46-3

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	7-2	7-2	7-2	7-2	7-2	7-3	7-3	7-3	7-3	7-3
175.00	9-9	9-9	9-9	9-10	9-10	9-10	9-10	9-11	9-11	9-11
200.00	12-9	12-9	12-9	12-10	12-10	12-10	12-11	12-11	12-11	13-0
225.00	16-1	16-2	16-2	16-3	16-3	16-4	16-4	16-5	16-5	16-5
250.00	19-11	20-0	20-0	20-1	20-2	20-2	20-3	20-3	20-4	20-4
275.00	24-2	24-3	24-3	24-4	24-5	24-5	24-6	24-7	24-7	24-8
300.00	28-10	28-11	28-11	29-0	29-1	29-2	29-3	29-3	29-4	29-5
325.00	33-11	34-0	34-1	34-2	34-3	34-4	34-4	34-5	34-6	34-7
350.00	39-5	39-6	39-7	39-8	39-9	39-10	39-11	40-0	40-1	40-2
375.00	45-4	45-5	45-6	45-8	45-9	45-11	46-0	46-1	46-2	46-3

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 48 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.48
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	13-0	13-0	13-0	13-0	13-0	13-1	13-1	13-1	13-1	13-1
225.00	16-5	16-6	16-6	16-6	16-6	16-7	16-7	16-7	16-7	16-7
250.00	20-4	20-4	20-5	20-5	20-5	20-6	20-6	20-6	20-6	20-7
275.00	24-8	24-8	24-8	24-9	24-9	24-10	24-10	24-10	24-11	24-11
300.00	29-5	29-5	29-6	29-6	29-6	29-7	29-7	29-8	29-8	29-8
325.00	34-7	34-7	34-8	34-8	34-9	34-9	34-10	34-11	34-11	34-11
350.00	40-2	40-3	40-3	40-4	40-5	40-5	40-6	40-7	40-7	40-7
375.00	46-3	46-4	46-4	46-5	46-6	46-6	46-7	46-8	46-8	46-9
400.00	52-9	52-10	52-11	52-11	53-0	53-1	53-2	53-3	53-3	53-4
425.00	59-9	59-9	59-10	59-11	60-0	60-1	60-2	60-3	60-4	60-5
450.00	67-2	67-3	67-4	67-5	67-6	67-7	67-8	67-9	67-10	67-11
475.00	75-1	75-2	75-3	75-4	75-6	75-7	75-8	75-9	75-10	75-11
500.00	83-5	83-7	83-8	83-9	83-11	84-0	84-1	84-3	84-4	84-5

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	13-0	13-0	13-0	13-0	13-0	13-1	13-1	13-1	13-1	13-1
225.00	16-5	16-6	16-6	16-6	16-6	16-7	16-7	16-7	16-7	16-7
250.00	20-4	20-4	20-5	20-5	20-5	20-6	20-6	20-6	20-6	20-7
275.00	24-8	24-8	24-9	24-9	24-9	24-10	24-10	24-10	24-11	24-11
300.00	29-5	29-5	29-6	29-6	29-7	29-7	29-7	29-8	29-8	29-8
325.00	34-7	34-7	34-8	34-8	34-9	34-10	34-10	34-11	34-11	34-11
350.00	40-2	40-3	40-3	40-4	40-5	40-5	40-6	40-7	40-7	40-7
375.00	46-3	46-4	46-4	46-5	46-6	46-7	46-7	46-8	46-8	46-9
400.00	52-9	52-10	52-11	53-0	53-0	53-1	53-2	53-3	53-3	53-4
425.00	59-9	59-10	59-11	60-0	60-1	60-1	60-2	60-3	60-4	60-5
450.00	67-2	67-3	67-4	67-5	67-6	67-7	67-8	67-9	67-10	67-11
475.00	75-1	75-2	75-3	75-4	75-6	75-7	75-8	75-9	75-10	75-11
500.00	83-5	83-7	83-8	83-10	83-11	84-0	84-2	84-3	84-4	84-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 49 OF 362		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH813.49
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS											

Span = 100 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	2.461	2.05	1500	2.05	1500*
0.0	0.00	0.00	0.00	1.134	1.96	724	1.94	733
30.0	0.00	0.00	0.00	1.134	2.27	627	2.24	633
40.0	0.00	0.00	0.00	1.134	2.36	602	2.34	608
50.0	0.00	0.00	0.00	1.134	2.45	580	2.43	585
60.0	0.00	0.00	0.00	1.134	2.54	560	2.51	565
70.0	0.00	0.00	0.00	1.134	2.62	542	2.60	547
80.0	0.00	0.00	0.00	1.134	2.70	526	2.68	531
90.0	0.00	0.00	0.00	1.134	2.77	514	2.76	515
100.0	0.00	0.00	0.00	1.134	2.83	502	2.83	502
110.0	0.00	0.00	0.00	1.134	2.88	495	2.88	495
120.0	0.00	0.00	0.00	1.134	2.92	487	2.92	487
130.0	0.00	0.00	0.00	1.134	2.96	480	2.96	480
167.0	0.00	0.00	0.00	1.134	3.12	457	3.12	457
212.0	0.00	0.00	0.00	1.134	3.30	432	3.30	432
* Design Condition								

Span = 200 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	2.461	8.26	1500	8.26	1500*
0.0	0.00	0.00	0.00	1.134	8.16	699	8.14	701
30.0	0.00	0.00	0.00	1.134	8.49	673	8.46	675
40.0	0.00	0.00	0.00	1.134	8.59	665	8.56	667
50.0	0.00	0.00	0.00	1.134	8.69	657	8.67	659
60.0	0.00	0.00	0.00	1.134	8.79	650	8.77	652
70.0	0.00	0.00	0.00	1.134	8.89	643	8.87	645
80.0	0.00	0.00	0.00	1.134	8.99	636	8.96	638
90.0	0.00	0.00	0.00	1.134	9.09	629	9.06	631
100.0	0.00	0.00	0.00	1.134	9.18	623	9.16	624
110.0	0.00	0.00	0.00	1.134	9.25	618	9.25	618
120.0	0.00	0.00	0.00	1.134	9.32	614	9.32	614
130.0	0.00	0.00	0.00	1.134	9.38	610	9.38	610
167.0	0.00	0.00	0.00	1.134	9.58	597	9.58	597
212.0	0.00	0.00	0.00	1.134	9.83	583	9.83	583
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 51 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.51
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS					

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 52 OF 362		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH813.52
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS											

Span =	500	ft						
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	2.461	53.64	1500	53.64	1500*
0.0	0.00	0.00	0.00	1.134	53.54	692	53.52	693
30.0	0.00	0.00	0.00	1.134	53.87	688	53.85	689
40.0	0.00	0.00	0.00	1.134	53.98	687	53.95	688
50.0	0.00	0.00	0.00	1.134	54.08	686	54.06	686
60.0	0.00	0.00	0.00	1.134	54.19	685	54.16	685
70.0	0.00	0.00	0.00	1.134	54.29	684	54.27	684
80.0	0.00	0.00	0.00	1.134	54.40	682	54.37	683
90.0	0.00	0.00	0.00	1.134	54.51	681	54.48	682
100.0	0.00	0.00	0.00	1.134	54.61	680	54.58	680
110.0	0.00	0.00	0.00	1.134	54.69	679	54.69	679
120.0	0.00	0.00	0.00	1.134	54.79	678	54.79	678
130.0	0.00	0.00	0.00	1.134	54.86	677	54.86	677
167.0	0.00	0.00	0.00	1.134	55.10	675	55.10	675
212.0	0.00	0.00	0.00	1.134	55.38	671	55.38	671
* Design Condition								

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>53 OF 362</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.53
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span: 400.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-5	8-5	8-5	8-6	8-6	8-6	8-7	8-7	8-7	8-8
225.00	10-8	10-8	10-8	10-9	10-9	10-10	10-10	10-10	10-11	10-11
250.00	13-2	13-2	13-3	13-3	13-4	13-4	13-5	13-5	13-6	13-6
275.00	15-11	16-0	16-0	16-1	16-1	16-2	16-3	16-3	16-4	16-4
300.00	19-0	19-0	19-1	19-2	19-2	19-3	19-4	19-4	19-5	19-6
325.00	22-3	22-4	22-5	22-6	22-7	22-7	22-8	22-9	22-10	22-11
350.00	25-10	25-11	26-0	26-1	26-2	26-3	26-4	26-5	26-6	26-7
375.00	29-9	29-10	29-11	30-0	30-1	30-2	30-3	30-4	30-5	30-7
400.00	33-10	33-11	34-1	34-2	34-3	34-5	34-6	34-7	34-8	34-9
425.00	38-3	38-5	38-6	38-7	38-9	38-10	39-0	39-1	39-3	39-4
450.00	42-11	43-1	43-3	43-4	43-6	43-7	43-9	43-11	44-0	44-2
475.00	47-11	48-1	48-3	48-4	48-6	48-8	48-10	49-0	49-1	49-3
500.00	53-2	53-4	53-6	53-8	53-10	54-0	54-2	54-4	54-6	54-8

Stringing Sag Table Using Final Sag							Ruling Span:	400.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-5	8-5	8-6	8-6	8-6	8-6	8-7	8-7	8-7	8-8
225.00	10-8	10-8	10-9	10-9	10-9	10-10	10-10	10-11	10-11	10-11
250.00	13-2	13-2	13-3	13-3	13-4	13-4	13-5	13-5	13-6	13-6
275.00	15-11	16-0	16-0	16-1	16-2	16-2	16-3	16-3	16-4	16-4
300.00	19-0	19-0	19-1	19-2	19-3	19-3	19-4	19-5	19-5	19-6
325.00	22-3	22-4	22-5	22-6	22-7	22-8	22-8	22-9	22-10	22-11
350.00	25-11	25-11	26-0	26-1	26-2	26-3	26-4	26-5	26-6	26-7
375.00	29-9	29-10	29-11	30-0	30-1	30-2	30-4	30-5	30-6	30-7
400.00	33-10	34-0	34-1	34-2	34-4	34-5	34-6	34-7	34-9	34-10
425.00	38-3	38-5	38-6	38-8	38-9	38-11	39-0	39-1	39-3	39-4
450.00	43-0	43-1	43-3	43-5	43-6	43-8	43-9	43-11	44-1	44-2
475.00	47-11	48-1	48-3	48-5	48-7	48-8	48-10	49-0	49-2	49-3
500.00	53-2	53-5	53-7	53-9	53-11	54-1	54-3	54-5	54-7	54-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>57 OF 362</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.57
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>59 OF 362</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.59
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS									

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	2.461	39.41	2000	39.41	2000*
0.0	0.00	0.00	0.00	1.134	39.25	925	39.21	926
30.0	0.00	0.00	0.00	1.134	39.68	916	39.63	917
40.0	0.00	0.00	0.00	1.134	39.82	913	39.77	914
50.0	0.00	0.00	0.00	1.134	39.96	910	39.91	911
60.0	0.00	0.00	0.00	1.134	40.10	907	40.05	908
70.0	0.00	0.00	0.00	1.134	40.24	904	40.19	905
80.0	0.00	0.00	0.00	1.134	40.38	901	40.33	902
90.0	0.00	0.00	0.00	1.134	40.52	898	40.47	899
100.0	0.00	0.00	0.00	1.134	40.66	895	40.61	896
110.0	0.00	0.00	0.00	1.134	40.79	892	40.74	893
120.0	0.00	0.00	0.00	1.134	40.93	889	40.88	890
130.0	0.00	0.00	0.00	1.134	41.06	886	41.02	887
167.0	0.00	0.00	0.00	1.134	41.41	879	41.41	879
212.0	0.00	0.00	0.00	1.134	41.78	872	41.78	872

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>61 OF 362</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.61</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 2000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag							Ruling Span:		300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-6	3-6	3-7	3-7	3-8	3-8	3-8	3-9	3-9	3-10
175.00	4-9	4-10	4-10	4-11	4-11	5-0	5-1	5-1	5-2	5-2
200.00	6-3	6-4	6-4	6-5	6-6	6-6	6-7	6-8	6-9	6-9
225.00	7-11	8-0	8-1	8-1	8-2	8-3	8-4	8-5	8-6	8-7
250.00	9-9	9-10	9-11	10-0	10-1	10-3	10-4	10-5	10-6	10-7
275.00	11-10	11-11	12-0	12-2	12-3	12-4	12-6	12-7	12-8	12-10
300.00	14-1	14-2	14-4	14-5	14-7	14-9	14-10	15-0	15-1	15-3
325.00	16-6	16-8	16-10	17-0	17-2	17-4	17-5	17-7	17-9	17-11
350.00	19-2	19-4	19-6	19-8	19-11	20-1	20-3	20-5	20-7	20-9
375.00	22-0	22-2	22-5	22-8	22-10	23-1	23-3	23-6	23-8	23-11

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-6	3-7	3-7	3-7	3-8	3-8	3-9	3-9	3-9	3-10
175.00	4-9	4-10	4-11	4-11	5-0	5-0	5-1	5-1	5-2	5-2
200.00	6-3	6-4	6-4	6-5	6-6	6-7	6-7	6-8	6-9	6-9
225.00	7-11	8-0	8-1	8-2	8-3	8-4	8-4	8-5	8-6	8-7
250.00	9-9	9-10	10-0	10-1	10-2	10-3	10-4	10-5	10-6	10-7
275.00	11-10	11-11	12-1	12-2	12-4	12-5	12-6	12-8	12-9	12-10
300.00	14-1	14-3	14-4	14-6	14-8	14-9	14-11	15-0	15-2	15-4
325.00	16-6	16-8	16-10	17-0	17-2	17-4	17-6	17-8	17-10	18-0
350.00	19-2	19-5	19-7	19-9	19-11	20-2	20-4	20-6	20-8	20-10
375.00	22-1	22-3	22-6	22-8	22-11	23-1	23-4	23-7	23-9	23-11

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-3	6-3	6-4	6-4	6-5	6-5	6-5	6-6	6-6	6-7
225.00	7-11	7-11	8-0	8-0	8-1	8-1	8-2	8-3	8-3	8-4
250.00	9-9	9-10	9-10	9-11	10-0	10-0	10-1	10-2	10-2	10-3
275.00	11-10	11-11	11-11	12-0	12-1	12-2	12-3	12-3	12-4	12-5
300.00	14-1	14-2	14-3	14-4	14-5	14-6	14-6	14-7	14-8	14-9
325.00	16-6	16-7	16-9	16-10	16-11	17-0	17-1	17-2	17-3	17-4
350.00	19-2	19-3	19-5	19-6	19-7	19-8	19-10	19-11	20-0	20-1
375.00	22-0	22-2	22-3	22-5	22-6	22-8	22-9	22-10	23-0	23-1
400.00	25-1	25-3	25-4	25-6	25-8	25-9	25-11	26-1	26-2	26-4
425.00	28-4	28-6	28-8	28-10	29-0	29-1	29-3	29-5	29-7	29-9
450.00	31-9	32-0	32-2	32-4	32-6	32-8	32-10	33-0	33-2	33-4
475.00	35-5	35-8	35-10	36-0	36-3	36-5	36-7	36-10	37-0	37-2
500.00	39-4	39-6	39-9	39-11	40-2	40-5	40-7	40-10	41-0	41-3

Stringing Sag Table Using Final Sag							Ruling Span:		400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-3	6-3	6-4	6-4	6-5	6-5	6-6	6-6	6-6	6-7
225.00	7-11	8-0	8-0	8-1	8-1	8-2	8-2	8-3	8-3	8-4
250.00	9-9	9-10	9-11	9-11	10-0	10-1	10-1	10-2	10-3	10-3
275.00	11-10	11-11	12-0	12-0	12-1	12-2	12-3	12-4	12-4	12-5
300.00	14-1	14-2	14-3	14-4	14-5	14-6	14-7	14-8	14-9	14-10
325.00	16-7	16-8	16-9	16-10	16-11	17-0	17-1	17-2	17-3	17-4
350.00	19-2	19-4	19-5	19-6	19-8	19-9	19-10	19-11	20-1	20-2
375.00	22-1	22-2	22-4	22-5	22-7	22-8	22-10	22-11	23-0	23-2
400.00	25-1	25-3	25-5	25-6	25-8	25-10	25-11	26-1	26-3	26-4
425.00	28-5	28-6	28-8	28-10	29-0	29-2	29-4	29-6	29-8	29-9
450.00	31-10	32-0	32-2	32-4	32-7	32-9	32-11	33-1	33-3	33-5
475.00	35-6	35-8	35-11	36-1	36-4	36-6	36-8	36-11	37-1	37-3
500.00	39-4	39-7	39-10	40-0	40-3	40-6	40-8	40-11	41-1	41-4

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Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	2.461	4.93	2500	4.93	2500*
0.0	0.00	0.00	0.00	1.134	4.69	1213	4.62	1229
30.0	0.00	0.00	0.00	1.134	5.20	1093	5.13	1107
40.0	0.00	0.00	0.00	1.134	5.36	1061	5.30	1074
50.0	0.00	0.00	0.00	1.134	5.52	1031	5.45	1043
60.0	0.00	0.00	0.00	1.134	5.67	1003	5.61	1015
70.0	0.00	0.00	0.00	1.134	5.82	977	5.75	989
80.0	0.00	0.00	0.00	1.134	5.97	953	5.90	964
90.0	0.00	0.00	0.00	1.134	6.11	931	6.04	942
100.0	0.00	0.00	0.00	1.134	6.25	911	6.18	921
110.0	0.00	0.00	0.00	1.134	6.39	891	6.32	901
120.0	0.00	0.00	0.00	1.134	6.52	873	6.45	882
130.0	0.00	0.00	0.00	1.134	6.62	860	6.59	865
167.0	0.00	0.00	0.00	1.134	6.92	823	6.92	823
212.0	0.00	0.00	0.00	1.134	7.24	787	7.24	787
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>67 OF 362</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH813.67
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	0.50G	6.00	0.00	2.461	31.26	2499	31.24	2500*
0.0	0.00	0.00	0.00	1.134	31.01	1161	30.93	1163
30.0	0.00	0.00	0.00	1.134	31.54	1142	31.46	1144
40.0	0.00	0.00	0.00	1.134	31.71	1135	31.63	1138
50.0	0.00	0.00	0.00	1.134	31.89	1129	31.80	1132
60.0	0.00	0.00	0.00	1.134	32.06	1123	31.98	1126
70.0	0.00	0.00	0.00	1.134	32.24	1118	32.15	1121
80.0	0.00	0.00	0.00	1.134	32.41	1112	32.32	1115
90.0	0.00	0.00	0.00	1.134	32.58	1106	32.49	1109
100.0	0.00	0.00	0.00	1.134	32.75	1101	32.66	1104
110.0	0.00	0.00	0.00	1.134	32.92	1095	32.83	1098
120.0	0.00	0.00	0.00	1.134	33.09	1090	32.99	1093
130.0	0.00	0.00	0.00	1.134	33.26	1084	33.16	1088
167.0	0.00	0.00	0.00	1.134	33.78	1068	33.77	1069
212.0	0.00	0.00	0.00	1.134	34.23	1055	34.23	1055
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>69 OF 362</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.69</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 2500 LBS</p> </div>						

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-9	0-9	0-10	0-11	1-0	1-1	1-1	1-2	1-3	1-3
100.00	1-3	1-5	1-6	1-8	1-9	1-11	2-0	2-1	2-2	2-3
125.00	2-0	2-2	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-7
150.00	2-10	3-2	3-5	3-9	4-0	4-3	4-6	4-9	4-11	5-2
175.00	3-10	4-4	4-8	5-1	5-5	5-10	6-1	6-5	6-9	7-0
200.00	5-1	5-7	6-2	6-8	7-1	7-7	8-0	8-5	8-10	9-2

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-3	1-3
100.00	1-4	1-6	1-7	1-9	1-10	1-11	2-1	2-2	2-3	2-3
125.00	2-1	2-3	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-7
150.00	3-0	3-3	3-7	3-10	4-2	4-5	4-7	4-10	5-0	5-2
175.00	4-0	4-6	4-11	5-3	5-7	6-0	6-3	6-7	6-10	7-0
200.00	5-3	5-10	6-5	6-10	7-4	7-10	8-3	8-8	9-0	9-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 70 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.70
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-9	2-10	2-10	2-11	2-11	3-0	3-0	3-1	3-1	3-2
175.00	3-10	3-10	3-11	4-0	4-0	4-1	4-2	4-2	4-3	4-4
200.00	5-0	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-7
225.00	6-3	6-5	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-1
250.00	7-9	7-10	8-0	8-1	8-3	8-4	8-5	8-7	8-8	8-9
275.00	9-5	9-6	9-8	9-10	9-11	10-1	10-3	10-4	10-6	10-7
300.00	11-2	11-4	11-6	11-8	11-10	12-0	12-2	12-4	12-6	12-8
325.00	13-1	13-4	13-6	13-9	13-11	14-1	14-3	14-6	14-8	14-10
350.00	15-3	15-5	15-8	15-11	16-2	16-4	16-7	16-10	17-0	17-3
375.00	17-6	17-9	18-0	18-3	18-6	18-9	19-0	19-3	19-6	19-9

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-10	2-10	2-11	2-11	3-0	3-0	3-1	3-1	3-2	3-2
175.00	3-10	3-11	3-11	4-0	4-1	4-1	4-2	4-3	4-3	4-4
200.00	5-0	5-1	5-2	5-3	5-3	5-4	5-5	5-6	5-7	5-8
225.00	6-4	6-5	6-6	6-7	6-8	6-9	6-11	7-0	7-1	7-2
250.00	7-10	7-11	8-0	8-2	8-3	8-5	8-6	8-7	8-9	8-10
275.00	9-5	9-7	9-9	9-10	10-0	10-2	10-3	10-5	10-7	10-8
300.00	11-3	11-5	11-7	11-9	11-11	12-1	12-3	12-5	12-7	12-9
325.00	13-2	13-5	13-7	13-10	14-0	14-2	14-4	14-7	14-9	14-11
350.00	15-4	15-7	15-9	16-0	16-3	16-5	16-8	16-11	17-1	17-4
375.00	17-7	17-10	18-1	18-5	18-8	18-11	19-2	19-5	19-8	19-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 72 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.72
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-0	5-0	5-1	5-1	5-2	5-2	5-3	5-3	5-4	5-4
225.00	6-3	6-4	6-5	6-5	6-6	6-7	6-7	6-8	6-9	6-9
250.00	7-9	7-10	7-11	8-0	8-0	8-1	8-2	8-3	8-4	8-4
275.00	9-5	9-6	9-7	9-8	9-9	9-10	9-11	10-0	10-0	10-1
300.00	11-2	11-3	11-5	11-6	11-7	11-8	11-9	11-10	11-11	12-0
325.00	13-2	13-3	13-4	13-6	13-7	13-8	13-10	13-11	14-0	14-2
350.00	15-3	15-4	15-6	15-8	15-9	15-11	16-0	16-2	16-3	16-5
375.00	17-6	17-8	17-10	17-11	18-1	18-3	18-5	18-7	18-8	18-10
400.00	19-11	20-1	20-3	20-5	20-7	20-9	20-11	21-1	21-3	21-5
425.00	22-6	22-8	22-11	23-1	23-3	23-6	23-8	23-10	24-0	24-3
450.00	25-3	25-5	25-8	25-11	26-1	26-4	26-6	26-9	26-11	27-2
475.00	28-2	28-4	28-7	28-10	29-1	29-4	29-7	29-10	30-1	30-3
500.00	31-2	31-5	31-9	32-0	32-3	32-6	32-10	33-1	33-4	33-7

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-0	5-0	5-1	5-1	5-2	5-2	5-3	5-3	5-4	5-4
225.00	6-4	6-4	6-5	6-6	6-6	6-7	6-8	6-8	6-9	6-10
250.00	7-10	7-10	7-11	8-0	8-1	8-2	8-2	8-3	8-4	8-5
275.00	9-5	9-6	9-7	9-8	9-9	9-10	9-11	10-0	10-1	10-2
300.00	11-3	11-4	11-5	11-6	11-7	11-9	11-10	11-11	12-0	12-1
325.00	13-2	13-4	13-5	13-6	13-8	13-9	13-10	14-0	14-1	14-2
350.00	15-4	15-5	15-7	15-8	15-10	15-11	16-1	16-3	16-4	16-6
375.00	17-7	17-9	17-10	18-0	18-2	18-4	18-6	18-7	18-9	18-11
400.00	20-0	20-2	20-4	20-6	20-8	20-10	21-0	21-2	21-4	21-6
425.00	22-7	22-9	23-0	23-2	23-4	23-7	23-9	23-11	24-2	24-4
450.00	25-4	25-7	25-9	26-0	26-3	26-5	26-8	26-10	27-1	27-3
475.00	28-3	28-6	28-9	29-0	29-3	29-5	29-8	29-11	30-2	30-5
500.00	31-4	31-7	31-10	32-1	32-5	32-8	32-11	33-2	33-5	33-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 73 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH813.73
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS										

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	2.461	4.11	3000	4.11	3000*
0.0	0.00	0.00	0.00	1.134	3.76	1511	3.67	1547
30.0	0.00	0.00	0.00	1.134	4.36	1302	4.27	1331
40.0	0.00	0.00	0.00	1.134	4.55	1249	4.46	1275
50.0	0.00	0.00	0.00	1.134	4.73	1201	4.64	1226
60.0	0.00	0.00	0.00	1.134	4.91	1159	4.81	1181
70.0	0.00	0.00	0.00	1.134	5.08	1120	4.98	1141
80.0	0.00	0.00	0.00	1.134	5.24	1085	5.15	1105
90.0	0.00	0.00	0.00	1.134	5.40	1053	5.31	1072
100.0	0.00	0.00	0.00	1.134	5.56	1023	5.46	1041
110.0	0.00	0.00	0.00	1.134	5.71	996	5.61	1013
120.0	0.00	0.00	0.00	1.134	5.86	971	5.76	987
130.0	0.00	0.00	0.00	1.134	6.00	948	5.91	963
167.0	0.00	0.00	0.00	1.134	6.33	899	6.33	899
212.0	0.00	0.00	0.00	1.134	6.67	854	6.67	854

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 75 OF 362		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH813.75
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 3000 LBS											

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	2.461	25.98	2992	25.91	3000*
0.0	0.00	0.00	0.00	1.134	25.62	1398	25.45	1407
30.0	0.00	0.00	0.00	1.134	26.25	1365	26.09	1373
40.0	0.00	0.00	0.00	1.134	26.46	1354	26.29	1363
50.0	0.00	0.00	0.00	1.134	26.67	1344	26.50	1352
60.0	0.00	0.00	0.00	1.134	26.87	1334	26.70	1342
70.0	0.00	0.00	0.00	1.134	27.08	1324	26.91	1332
80.0	0.00	0.00	0.00	1.134	27.28	1314	27.11	1323
90.0	0.00	0.00	0.00	1.134	27.48	1305	27.31	1313
100.0	0.00	0.00	0.00	1.134	27.68	1296	27.51	1304
110.0	0.00	0.00	0.00	1.134	27.88	1287	27.71	1295
120.0	0.00	0.00	0.00	1.134	28.08	1278	27.90	1286
130.0	0.00	0.00	0.00	1.134	28.28	1269	28.10	1277
167.0	0.00	0.00	0.00	1.134	28.98	1239	28.81	1247
212.0	0.00	0.00	0.00	1.134	29.49	1219	29.49	1219

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

Completely Revised

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New Page

Information Removed

SHEET
77 OF 362

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.77

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-2
100.00	1-0	1-2	1-4	1-5	1-7	1-8	1-10	1-11	2-0	2-2
125.00	1-7	1-10	2-0	2-3	2-5	2-8	2-10	3-0	3-2	3-4
150.00	2-3	2-7	2-11	3-3	3-6	3-10	4-1	4-4	4-7	4-9
175.00	3-1	3-6	4-0	4-5	4-10	5-2	5-6	5-11	6-2	6-6
200.00	4-0	4-7	5-2	5-9	6-3	6-9	7-3	7-8	8-1	8-6

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-1	1-2	1-2
100.00	1-1	1-3	1-5	1-6	1-8	1-9	1-11	2-0	2-1	2-2
125.00	1-8	1-11	2-2	2-4	2-7	2-9	2-11	3-1	3-3	3-4
150.00	2-5	2-9	3-1	3-5	3-8	4-0	4-3	4-6	4-9	4-10
175.00	3-4	3-9	4-3	4-8	5-1	5-5	5-9	6-1	6-5	6-7
200.00	4-4	4-11	5-6	6-1	6-7	7-1	7-6	8-0	8-5	8-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 78 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.78
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 3000 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span: 300.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-4	2-4	2-5	2-5	2-6	2-7	2-7	2-8	2-8	2-9
175.00	3-2	3-2	3-3	3-4	3-5	3-6	3-6	3-7	3-8	3-9
200.00	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10
225.00	5-2	5-4	5-5	5-6	5-8	5-9	5-10	5-11	6-1	6-2
250.00	6-5	6-7	6-8	6-10	6-11	7-1	7-3	7-4	7-6	7-7
275.00	7-9	7-11	8-1	8-3	8-5	8-7	8-9	8-11	9-0	9-2
300.00	9-3	9-5	9-8	9-10	10-0	10-3	10-5	10-7	10-9	10-11
325.00	10-10	11-1	11-4	11-6	11-9	12-0	12-2	12-5	12-8	12-10
350.00	12-7	12-10	13-1	13-5	13-8	13-11	14-2	14-5	14-8	14-11
375.00	14-5	14-9	15-1	15-4	15-8	16-0	16-3	16-7	16-10	17-1

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-4	2-5	2-5	2-6	2-6	2-7	2-8	2-8	2-9	2-9
175.00	3-2	3-3	3-4	3-5	3-5	3-6	3-7	3-8	3-8	3-9
200.00	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11
225.00	5-3	5-5	5-6	5-7	5-9	5-10	5-11	6-0	6-2	6-3
250.00	6-6	6-8	6-9	6-11	7-1	7-2	7-4	7-5	7-7	7-8
275.00	7-10	8-0	8-2	8-4	8-6	8-8	8-10	9-0	9-2	9-4
300.00	9-4	9-7	9-9	10-0	10-2	10-4	10-6	10-9	10-11	11-1
325.00	11-0	11-3	11-6	11-8	11-11	12-2	12-4	12-7	12-10	13-0
350.00	12-9	13-0	13-4	13-7	13-10	14-1	14-4	14-7	14-10	15-1
375.00	14-8	15-0	15-3	15-7	15-11	16-2	16-6	16-9	17-1	17-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 80 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.80
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 3000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-1	4-2	4-3	4-3	4-4	4-4	4-5	4-6	4-6	4-7
225.00	5-2	5-3	5-4	5-5	5-6	5-6	5-7	5-8	5-9	5-9
250.00	6-5	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-1	7-2
275.00	7-9	7-11	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-7
300.00	9-3	9-5	9-6	9-7	9-9	9-10	9-11	10-1	10-2	10-3
325.00	10-10	11-0	11-2	11-3	11-5	11-7	11-8	11-10	11-11	12-1
350.00	12-7	12-9	12-11	13-1	13-3	13-5	13-6	13-8	13-10	14-0
375.00	14-6	14-8	14-10	15-0	15-2	15-4	15-7	15-9	15-11	16-1
400.00	16-6	16-8	16-11	17-1	17-4	17-6	17-8	17-11	18-1	18-3
425.00	18-7	18-10	19-1	19-4	19-6	19-9	20-0	20-2	20-5	20-8
450.00	20-11	21-2	21-5	21-8	21-11	22-2	22-5	22-8	22-11	23-2
475.00	23-3	23-7	23-10	24-2	24-5	24-8	25-0	25-3	25-6	25-10
500.00	25-9	26-1	26-5	26-9	27-1	27-5	27-8	28-0	28-4	28-7

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-2	4-2	4-3	4-4	4-4	4-5	4-5	4-6	4-7	4-7
225.00	5-3	5-4	5-5	5-5	5-6	5-7	5-8	5-8	5-9	5-10
250.00	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-0	7-1	7-2
275.00	7-10	7-11	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8
300.00	9-4	9-6	9-7	9-8	9-10	9-11	10-0	10-2	10-3	10-4
325.00	11-0	11-1	11-3	11-5	11-6	11-8	11-9	11-11	12-0	12-2
350.00	12-9	12-11	13-1	13-2	13-4	13-6	13-8	13-10	14-0	14-1
375.00	14-7	14-10	15-0	15-2	15-4	15-6	15-8	15-10	16-0	16-2
400.00	16-8	16-10	17-1	17-3	17-6	17-8	17-10	18-1	18-3	18-5
425.00	18-9	19-0	19-3	19-6	19-9	19-11	20-2	20-5	20-7	20-10
450.00	21-1	21-4	21-7	21-10	22-1	22-4	22-7	22-10	23-1	23-4
475.00	23-6	23-9	24-1	24-4	24-8	24-11	25-2	25-6	25-9	26-0
500.00	26-0	26-4	26-8	27-0	27-4	27-8	27-11	28-3	28-7	28-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>81 OF 362</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.81
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 3000 LBS									

* Design Condition

* Design Condition


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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>84 OF 362</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH813.84
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	5.041	116.27	1652	116.27	1652*
0.0	0.00	0.00	0.00	1.134	116.19	372	116.17	372
30.0	0.00	0.00	0.00	1.134	116.37	371	116.35	371
40.0	0.00	0.00	0.00	1.134	116.42	371	116.40	371
50.0	0.00	0.00	0.00	1.134	116.48	371	116.46	371
60.0	0.00	0.00	0.00	1.134	116.54	371	116.52	371
70.0	0.00	0.00	0.00	1.134	116.59	371	116.57	371
80.0	0.00	0.00	0.00	1.134	116.63	371	116.63	371
90.0	0.00	0.00	0.00	1.134	116.66	371	116.66	371
100.0	0.00	0.00	0.00	1.134	116.70	371	116.70	371
110.0	0.00	0.00	0.00	1.134	116.73	371	116.73	371
120.0	0.00	0.00	0.00	1.134	116.77	371	116.77	371
130.0	0.00	0.00	0.00	1.134	116.80	371	116.80	371
167.0	0.00	0.00	0.00	1.134	116.93	370	116.93	370
212.0	0.00	0.00	0.00	1.134	117.08	370	117.08	370
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>85 OF 362</p> </div>	Indicates Latest Revision		Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH813.85</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 1000 LBS</p> </div>					

Completely Revised

X New Page

OH813.85

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	3-7	3-8	3-8	3-8	3-8	3-8	3-9	3-9	3-9	3-9
100.00	6-5	6-6	6-6	6-7	6-7	6-7	6-7	6-8	6-8	6-8
125.00	10-1	10-2	10-2	10-3	10-4	10-4	10-4	10-5	10-5	10-6
150.00	14-7	14-8	14-9	14-10	14-11	14-11	15-0	15-1	15-1	15-2
175.00	19-11	20-1	20-2	20-3	20-5	20-5	20-6	20-7	20-8	20-8
200.00	26-2	26-4	26-6	26-7	26-9	26-10	26-11	27-0	27-1	27-2

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	3-7	3-8	3-8	3-8	3-8	3-8	3-9	3-9	3-9	3-9
100.00	6-5	6-6	6-6	6-7	6-7	6-7	6-7	6-8	6-8	6-8
125.00	10-1	10-2	10-3	10-3	10-4	10-4	10-4	10-5	10-5	10-6
150.00	14-7	14-8	14-9	14-10	14-11	14-11	15-0	15-1	15-1	15-2
175.00	20-0	20-1	20-2	20-3	20-5	20-5	20-6	20-7	20-8	20-8
200.00	26-3	26-4	26-6	26-8	26-9	26-10	26-11	27-0	27-1	27-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 86 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.86
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	6-8	6-8	6-8	6-8	6-8	6-8	6-8	6-8	6-9	6-9
125.00	10-5	10-5	10-6	10-6	10-6	10-6	10-6	10-6	10-6	10-6
150.00	15-1	15-1	15-1	15-2	15-2	15-2	15-2	15-2	15-3	15-3
175.00	20-8	20-8	20-8	20-9	20-9	20-9	20-9	20-9	20-10	20-10
200.00	27-1	27-2	27-2	27-2	27-3	27-3	27-3	27-4	27-4	27-4
225.00	34-6	34-7	34-7	34-8	34-8	34-9	34-9	34-9	34-10	34-10
250.00	42-11	42-11	43-0	43-1	43-1	43-2	43-2	43-3	43-3	43-3

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	6-8	6-8	6-8	6-8	6-8	6-8	6-8	6-8	6-9	6-9
125.00	10-5	10-5	10-6	10-6	10-6	10-6	10-6	10-6	10-6	10-6
150.00	15-1	15-1	15-2	15-2	15-2	15-2	15-2	15-2	15-3	15-3
175.00	20-8	20-8	20-8	20-9	20-9	20-9	20-9	20-9	20-10	20-10
200.00	27-1	27-2	27-2	27-2	27-3	27-3	27-3	27-4	27-4	27-4
225.00	34-6	34-7	34-7	34-8	34-8	34-9	34-9	34-9	34-10	34-10
250.00	42-11	42-11	43-0	43-1	43-1	43-2	43-2	43-3	43-3	43-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>87 OF 362</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.87</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS						

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	16-5	16-5	16-5	16-5	16-6	16-6	16-6	16-6	16-6	16-6
175.00	22-6	22-6	22-6	22-6	22-6	22-6	22-7	22-7	22-7	22-7
200.00	29-7	29-7	29-7	29-7	29-7	29-8	29-8	29-8	29-8	29-8
225.00	37-8	37-9	37-9	37-9	37-9	37-9	37-9	37-10	37-10	37-10
250.00	46-11	46-11	47-0	47-0	47-0	47-0	47-0	47-1	47-1	47-1
275.00	57-3	57-4	57-4	57-4	57-5	57-5	57-5	57-5	57-6	57-6
300.00	68-10	68-10	68-11	68-11	69-0	69-0	69-0	69-0	69-1	69-1
325.00	81-8	81-8	81-9	81-9	81-10	81-10	81-10	81-11	81-11	81-11
350.00	95-9	95-10	95-11	95-11	96-0	96-0	96-1	96-1	96-1	96-2
375.00	111-4	111-5	111-5	111-6	111-7	111-7	111-8	111-8	111-8	111-9

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	16-5	16-5	16-5	16-5	16-6	16-6	16-6	16-6	16-6	16-6
175.00	22-6	22-6	22-6	22-6	22-6	22-6	22-7	22-7	22-7	22-7
200.00	29-7	29-7	29-7	29-7	29-7	29-8	29-8	29-8	29-8	29-8
225.00	37-8	37-9	37-9	37-9	37-9	37-9	37-9	37-10	37-10	37-10
250.00	46-11	46-11	47-0	47-0	47-0	47-0	47-0	47-1	47-1	47-1
275.00	57-3	57-4	57-4	57-4	57-5	57-5	57-5	57-5	57-6	57-6
300.00	68-10	68-11	68-11	68-11	69-0	69-0	69-0	69-0	69-1	69-1
325.00	81-8	81-8	81-9	81-9	81-10	81-10	81-10	81-11	81-11	81-11
350.00	95-10	95-10	95-11	95-11	96-0	96-0	96-1	96-1	96-1	96-2
375.00	111-4	111-5	111-5	111-6	111-7	111-7	111-8	111-8	111-8	111-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>88 OF 362</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.88
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	22-0	22-0	22-0	22-0	22-0	22-0	22-0	22-1	22-1	22-1
225.00	27-11	27-11	28-0	28-0	28-0	28-0	28-0	28-0	28-0	28-0
250.00	34-8	34-8	34-8	34-8	34-9	34-9	34-9	34-9	34-9	34-9
275.00	42-2	42-2	42-2	42-2	42-3	42-3	42-3	42-3	42-3	42-4
300.00	50-5	50-6	50-6	50-6	50-6	50-7	50-7	50-7	50-7	50-7
325.00	59-7	59-7	59-7	59-8	59-8	59-8	59-9	59-9	59-9	59-9
350.00	69-6	69-7	69-7	69-7	69-8	69-8	69-9	69-9	69-9	69-9
375.00	80-4	80-5	80-5	80-6	80-6	80-7	80-7	80-7	80-8	80-8
400.00	92-2	92-2	92-3	92-3	92-4	92-4	92-5	92-5	92-5	92-6
425.00	104-10	104-11	104-11	105-0	105-0	105-1	105-2	105-2	105-2	105-3
450.00	118-6	118-7	118-8	118-8	118-9	118-10	118-10	118-11	118-11	119-0
475.00	133-3	133-4	133-4	133-5	133-6	133-7	133-7	133-8	133-8	133-9
500.00	149-0	149-1	149-2	149-3	149-4	149-5	149-5	149-6	149-7	149-7

Stringing Sag Table Using Final Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	22-0	22-0	22-0	22-0	22-0	22-0	22-0	22-1	22-1	22-1
225.00	27-11	27-11	28-0	28-0	28-0	28-0	28-0	28-0	28-0	28-0
250.00	34-8	34-8	34-8	34-8	34-9	34-9	34-9	34-9	34-9	34-9
275.00	42-2	42-2	42-2	42-3	42-3	42-3	42-3	42-3	42-3	42-4
300.00	50-5	50-6	50-6	50-6	50-6	50-7	50-7	50-7	50-7	50-7
325.00	59-7	59-7	59-7	59-8	59-8	59-8	59-9	59-9	59-9	59-9
350.00	69-6	69-7	69-7	69-8	69-8	69-8	69-9	69-9	69-9	69-9
375.00	80-5	80-5	80-5	80-6	80-6	80-7	80-7	80-7	80-8	80-8
400.00	92-2	92-2	92-3	92-3	92-4	92-4	92-5	92-5	92-5	92-6
425.00	104-10	104-11	104-11	105-0	105-1	105-1	105-2	105-2	105-2	105-3
450.00	118-6	118-7	118-8	118-9	118-9	118-10	118-10	118-11	118-11	119-0
475.00	133-3	133-4	133-5	133-5	133-6	133-7	133-7	133-8	133-8	133-9
500.00	149-0	149-1	149-2	149-3	149-4	149-5	149-5	149-6	149-7	149-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 89 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.89
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS					

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>91 OF 362</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH813.91
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS									

* Design Condition

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>92 OF 362</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.92</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS					

Span = 500 ft

Design Condition				Final			Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	5.041	137.21	1500	137.21	1500*
0.0	0.00	0.00	0.00	1.134	137.14	338	137.13	338
30.0	0.00	0.00	0.00	1.134	137.30	337	137.29	337
40.0	0.00	0.00	0.00	1.134	137.35	337	137.34	337
50.0	0.00	0.00	0.00	1.134	137.40	337	137.39	337
60.0	0.00	0.00	0.00	1.134	137.45	337	137.44	337
70.0	0.00	0.00	0.00	1.134	137.49	337	137.49	337
80.0	0.00	0.00	0.00	1.134	137.53	337	137.53	337
90.0	0.00	0.00	0.00	1.134	137.56	337	137.56	337
100.0	0.00	0.00	0.00	1.134	137.59	337	137.59	337
110.0	0.00	0.00	0.00	1.134	137.62	337	137.62	337
120.0	0.00	0.00	0.00	1.134	137.65	337	137.65	337
130.0	0.00	0.00	0.00	1.134	137.68	337	137.68	337
167.0	0.00	0.00	0.00	1.134	137.80	337	137.80	337
212.0	0.00	0.00	0.00	1.134	137.93	337	137.93	337

* Design Condition

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SHEET
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Indicates Latest Revision

Completely Revised



New Page

Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.93

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-5	2-5	2-5	2-6	2-6	2-6	2-7	2-7	2-7	2-7
100.00	4-3	4-4	4-4	4-5	4-5	4-6	4-7	4-7	4-7	4-8
125.00	6-8	6-9	6-10	6-11	7-0	7-1	7-1	7-2	7-2	7-3
150.00	9-7	9-9	9-10	9-11	10-1	10-2	10-3	10-4	10-5	10-5
175.00	13-1	13-3	13-5	13-7	13-9	13-11	14-0	14-1	14-2	14-3
200.00	17-2	17-4	17-7	17-9	18-0	18-2	18-4	18-5	18-7	18-8

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-5	2-5	2-5	2-6	2-6	2-6	2-7	2-7	2-7	2-7
100.00	4-3	4-4	4-4	4-5	4-6	4-6	4-7	4-7	4-7	4-8
125.00	6-8	6-9	6-10	6-11	7-0	7-1	7-1	7-2	7-2	7-3
150.00	9-8	9-9	9-10	10-0	10-1	10-2	10-3	10-4	10-5	10-5
175.00	13-2	13-4	13-6	13-7	13-9	13-11	14-0	14-1	14-2	14-3
200.00	17-3	17-5	17-8	17-10	18-0	18-2	18-4	18-5	18-7	18-8

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 94 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.94
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-5	4-5	4-5
125.00	6-9	6-9	6-9	6-9	6-10	6-10	6-10	6-10	6-10	6-11
150.00	9-8	9-9	9-9	9-10	9-10	9-10	9-10	9-11	9-11	9-11
175.00	13-3	13-3	13-4	13-4	13-5	13-5	13-6	13-6	13-6	13-6
200.00	17-4	17-5	17-5	17-6	17-6	17-7	17-8	17-8	17-8	17-9
225.00	22-0	22-1	22-2	22-2	22-3	22-4	22-5	22-5	22-5	22-6
250.00	27-3	27-4	27-5	27-6	27-7	27-8	27-9	27-9	27-10	27-10

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-5	4-5	4-5
125.00	6-9	6-9	6-9	6-10	6-10	6-10	6-10	6-10	6-10	6-11
150.00	9-9	9-9	9-9	9-10	9-10	9-10	9-10	9-11	9-11	9-11
175.00	13-3	13-3	13-4	13-4	13-5	13-5	13-6	13-6	13-6	13-6
200.00	17-4	17-5	17-5	17-6	17-7	17-7	17-8	17-8	17-8	17-9
225.00	22-0	22-1	22-2	22-3	22-3	22-4	22-5	22-5	22-5	22-6
250.00	27-3	27-4	27-5	27-6	27-7	27-8	27-9	27-9	27-10	27-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>95 OF 362</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.95</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS						

Stringing Sag Table Using Initial Sag							Ruling Span: 300.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	10-0	10-0	10-0	10-0	10-0	10-0	10-1	10-1	10-1	10-1
175.00	13-7	13-8	13-8	13-8	13-8	13-8	13-8	13-9	13-9	13-9
200.00	17-10	17-10	17-10	17-11	17-11	17-11	17-11	18-0	18-0	18-0
225.00	22-7	22-8	22-8	22-8	22-9	22-9	22-9	22-10	22-10	22-10
250.00	28-0	28-0	28-1	28-1	28-2	28-2	28-3	28-3	28-3	28-3
275.00	34-0	34-1	34-1	34-2	34-2	34-3	34-3	34-3	34-4	34-4
300.00	40-7	40-8	40-9	40-9	40-10	40-10	40-11	40-11	41-0	41-0
325.00	47-10	47-11	48-0	48-1	48-1	48-2	48-3	48-3	48-4	48-4
350.00	55-9	55-10	55-11	56-0	56-0	56-1	56-2	56-3	56-3	56-4
375.00	64-4	64-5	64-6	64-7	64-8	64-9	64-9	64-10	64-11	64-11

Stringing Sag Table Using Final Sag							Ruling Span:		300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	10-0	10-0	10-0	10-0	10-0	10-0	10-1	10-1	10-1	10-1
175.00	13-7	13-8	13-8	13-8	13-8	13-8	13-8	13-9	13-9	13-9
200.00	17-10	17-10	17-10	17-11	17-11	17-11	17-11	18-0	18-0	18-0
225.00	22-7	22-8	22-8	22-8	22-9	22-9	22-9	22-10	22-10	22-10
250.00	28-0	28-1	28-1	28-1	28-2	28-2	28-3	28-3	28-3	28-3
275.00	34-0	34-1	34-1	34-2	34-2	34-3	34-3	34-3	34-4	34-4
300.00	40-8	40-8	40-9	40-9	40-10	40-11	40-11	40-11	41-0	41-0
325.00	47-11	47-11	48-0	48-1	48-1	48-2	48-3	48-3	48-4	48-4
350.00	55-9	55-10	55-11	56-0	56-1	56-1	56-2	56-3	56-3	56-4
375.00	64-4	64-5	64-6	64-7	64-8	64-9	64-9	64-10	64-11	64-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>96 OF 362</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH813.96
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	18-8	18-9	18-9	18-9	18-9	18-9	18-9	18-9	18-9	18-10
225.00	23-9	23-9	23-9	23-9	23-10	23-10	23-10	23-10	23-10	23-10
250.00	29-5	29-5	29-5	29-6	29-6	29-6	29-6	29-6	29-7	29-7
275.00	35-9	35-9	35-9	35-9	35-10	35-10	35-10	35-10	35-11	35-11
300.00	42-8	42-9	42-9	42-9	42-10	42-10	42-10	42-10	42-11	42-11
325.00	50-4	50-4	50-5	50-5	50-5	50-6	50-6	50-6	50-7	50-7
350.00	58-8	58-8	58-9	58-9	58-9	58-10	58-10	58-11	58-11	58-11
375.00	67-8	67-8	67-9	67-9	67-10	67-11	67-11	67-11	68-0	68-0
400.00	77-5	77-5	77-6	77-7	77-7	77-8	77-8	77-9	77-9	77-10
425.00	87-11	87-11	88-0	88-1	88-1	88-2	88-3	88-3	88-4	88-4
450.00	99-2	99-2	99-3	99-4	99-5	99-6	99-6	99-7	99-7	99-8
475.00	111-2	111-3	111-4	111-5	111-6	111-7	111-8	111-8	111-9	111-9
500.00	124-1	124-2	124-3	124-4	124-5	124-6	124-7	124-7	124-8	124-8

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	18-8	18-9	18-9	18-9	18-9	18-9	18-9	18-9	18-9	18-10
225.00	23-9	23-9	23-9	23-10	23-10	23-10	23-10	23-10	23-10	23-10
250.00	29-5	29-5	29-5	29-6	29-6	29-6	29-6	29-6	29-7	29-7
275.00	35-9	35-9	35-9	35-10	35-10	35-10	35-10	35-10	35-11	35-11
300.00	42-8	42-9	42-9	42-9	42-10	42-10	42-10	42-10	42-11	42-11
325.00	50-4	50-4	50-5	50-5	50-5	50-6	50-6	50-6	50-7	50-7
350.00	58-8	58-8	58-9	58-9	58-10	58-10	58-10	58-11	58-11	58-11
375.00	67-8	67-9	67-9	67-10	67-10	67-11	67-11	67-11	68-0	68-0
400.00	77-5	77-6	77-6	77-7	77-7	77-8	77-8	77-9	77-9	77-10
425.00	87-11	88-0	88-0	88-1	88-2	88-2	88-3	88-3	88-4	88-4
450.00	99-2	99-3	99-4	99-4	99-5	99-6	99-6	99-7	99-7	99-8
475.00	111-2	111-3	111-4	111-5	111-6	111-7	111-8	111-8	111-9	111-9
500.00	124-1	124-2	124-3	124-4	124-5	124-6	124-7	124-7	124-8	124-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>97 OF 362</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.97
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS									

Span = 100 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	5.041	3.16	2000	3.16	2000*
0.0	0.00	0.00	0.00	1.134	3.04	468	3.01	473
30.0	0.00	0.00	0.00	1.134	3.26	437	3.23	441
40.0	0.00	0.00	0.00	1.134	3.32	428	3.30	432
50.0	0.00	0.00	0.00	1.134	3.39	420	3.36	424
60.0	0.00	0.00	0.00	1.134	3.45	412	3.43	416
70.0	0.00	0.00	0.00	1.134	3.52	405	3.49	408
80.0	0.00	0.00	0.00	1.134	3.55	401	3.55	401
90.0	0.00	0.00	0.00	1.134	3.60	396	3.60	396
100.0	0.00	0.00	0.00	1.134	3.63	392	3.63	392
110.0	0.00	0.00	0.00	1.134	3.67	388	3.67	388
120.0	0.00	0.00	0.00	1.134	3.71	385	3.71	385
130.0	0.00	0.00	0.00	1.134	3.74	381	3.74	381
167.0	0.00	0.00	0.00	1.134	3.87	369	3.87	369
212.0	0.00	0.00	0.00	1.134	4.02	355	4.02	355
* Design Condition								

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	5.041	12.81	2000	12.81	2000*
0.0	0.00	0.00	0.00	1.134	12.69	454	12.66	455
30.0	0.00	0.00	0.00	1.134	12.90	447	12.88	448
40.0	0.00	0.00	0.00	1.134	12.97	444	12.94	445
50.0	0.00	0.00	0.00	1.134	13.04	442	13.01	443
60.0	0.00	0.00	0.00	1.134	13.11	440	13.08	441
70.0	0.00	0.00	0.00	1.134	13.18	438	13.15	439
80.0	0.00	0.00	0.00	1.134	13.23	436	13.22	437
90.0	0.00	0.00	0.00	1.134	13.28	434	13.28	434
100.0	0.00	0.00	0.00	1.134	13.32	433	13.32	433
110.0	0.00	0.00	0.00	1.134	13.36	432	13.36	432
120.0	0.00	0.00	0.00	1.134	13.40	431	13.40	431
130.0	0.00	0.00	0.00	1.134	13.44	429	13.44	429
167.0	0.00	0.00	0.00	1.134	13.59	425	13.59	425
212.0	0.00	0.00	0.00	1.134	13.77	420	13.77	420

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>99 OF 362</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.99
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	5.041	54.12	2000	54.12	2000*
0.0	0.00	0.00	0.00	1.134	54.00	451	53.97	451
30.0	0.00	0.00	0.00	1.134	54.21	449	54.19	449
40.0	0.00	0.00	0.00	1.134	54.28	449	54.25	449
50.0	0.00	0.00	0.00	1.134	54.35	448	54.32	448
60.0	0.00	0.00	0.00	1.134	54.42	448	54.39	448
70.0	0.00	0.00	0.00	1.134	54.49	447	54.46	448
80.0	0.00	0.00	0.00	1.134	54.55	447	54.53	447
90.0	0.00	0.00	0.00	1.134	54.60	447	54.60	447
100.0	0.00	0.00	0.00	1.134	54.64	446	54.64	446
110.0	0.00	0.00	0.00	1.134	54.69	446	54.69	446
120.0	0.00	0.00	0.00	1.134	54.73	446	54.73	446
130.0	0.00	0.00	0.00	1.134	54.77	445	54.77	445
167.0	0.00	0.00	0.00	1.134	54.92	444	54.92	444
212.0	0.00	0.00	0.00	1.134	55.11	443	55.11	443

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 100 OF 362		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH813.100
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	5.041	88.79	2000	88.79	2000*
0.0	0.00	0.00	0.00	1.134	88.67	450	88.64	451
30.0	0.00	0.00	0.00	1.134	88.88	450	88.85	450
40.0	0.00	0.00	0.00	1.134	88.95	449	88.92	449
50.0	0.00	0.00	0.00	1.134	89.02	449	88.99	449
60.0	0.00	0.00	0.00	1.134	89.09	449	89.06	449
70.0	0.00	0.00	0.00	1.134	89.16	449	89.13	449
80.0	0.00	0.00	0.00	1.134	89.21	448	89.19	448
90.0	0.00	0.00	0.00	1.134	89.26	448	89.26	448
100.0	0.00	0.00	0.00	1.134	89.31	448	89.31	448
110.0	0.00	0.00	0.00	1.134	89.35	448	89.35	448
120.0	0.00	0.00	0.00	1.134	89.39	448	89.39	448
130.0	0.00	0.00	0.00	1.134	89.43	447	89.43	447
167.0	0.00	0.00	0.00	1.134	89.59	447	89.59	447
212.0	0.00	0.00	0.00	1.134	89.78	446	89.78	446
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>101 OF 362</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH813.101</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 2000 LBS</p> </div>				

Completely Revised

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Information Removed

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

OH813.101

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-9	1-10	1-10	1-11	1-11	2-0	2-0	2-0	2-1	2-1
100.00	3-2	3-3	3-4	3-4	3-5	3-6	3-7	3-7	3-8	3-8
125.00	4-11	5-1	5-2	5-3	5-4	5-5	5-7	5-8	5-8	5-9
150.00	7-1	7-3	7-5	7-7	7-9	7-10	8-0	8-1	8-2	8-3
175.00	9-8	9-11	10-1	10-4	10-6	10-9	10-11	11-1	11-2	11-3
200.00	12-8	13-0	13-3	13-6	13-9	14-0	14-3	14-6	14-7	14-9

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-10	1-10	1-10	1-11	1-11	2-0	2-0	2-0	2-1	2-1
100.00	3-2	3-3	3-4	3-5	3-5	3-6	3-7	3-7	3-8	3-8
125.00	5-0	5-1	5-2	5-4	5-5	5-6	5-7	5-8	5-8	5-9
150.00	7-2	7-4	7-6	7-8	7-9	7-11	8-0	8-1	8-2	8-3
175.00	9-10	10-0	10-3	10-5	10-7	10-10	10-11	11-1	11-2	11-3
200.00	12-10	13-1	13-4	13-7	13-11	14-2	14-3	14-6	14-7	14-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 102 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.102
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-2	3-2	3-3	3-3	3-3	3-3	3-3	3-4	3-4	3-4
125.00	5-0	5-0	5-0	5-1	5-1	5-1	5-2	5-2	5-2	5-2
150.00	7-2	7-3	7-3	7-4	7-4	7-5	7-5	7-5	7-6	7-6
175.00	9-10	9-10	9-11	9-11	10-0	10-1	10-1	10-2	10-2	10-3
200.00	12-10	12-11	12-11	13-0	13-1	13-2	13-3	13-3	13-4	13-4
225.00	16-3	16-4	16-5	16-6	16-7	16-8	16-9	16-10	16-11	16-11
250.00	20-1	20-2	20-3	20-5	20-6	20-7	20-9	20-10	20-11	20-11

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-2	3-3	3-3	3-3	3-3	3-3	3-4	3-4	3-4	3-4
125.00	5-0	5-0	5-1	5-1	5-1	5-2	5-2	5-2	5-2	5-2
150.00	7-2	7-3	7-3	7-4	7-4	7-5	7-5	7-5	7-6	7-6
175.00	9-10	9-10	9-11	10-0	10-0	10-1	10-1	10-2	10-2	10-3
200.00	12-10	12-11	13-0	13-1	13-1	13-2	13-3	13-3	13-4	13-4
225.00	16-3	16-4	16-5	16-6	16-7	16-8	16-9	16-10	16-11	16-11
250.00	20-1	20-3	20-4	20-5	20-7	20-8	20-9	20-10	20-11	20-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>103 OF 362</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH813.103	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	7-4	7-4	7-4	7-4	7-4	7-5	7-5	7-5	7-5	7-5
175.00	9-11	10-0	10-0	10-0	10-0	10-1	10-1	10-1	10-1	10-2
200.00	13-0	13-0	13-1	13-1	13-1	13-2	13-2	13-2	13-3	13-3
225.00	16-6	16-6	16-7	16-7	16-8	16-8	16-8	16-9	16-9	16-9
250.00	20-4	20-5	20-6	20-6	20-7	20-7	20-8	20-8	20-9	20-9
275.00	24-8	24-9	24-10	24-10	24-11	25-0	25-0	25-1	25-2	25-2
300.00	29-5	29-6	29-7	29-8	29-9	29-10	29-10	29-11	30-0	30-0
325.00	34-8	34-9	34-10	34-11	35-0	35-1	35-1	35-2	35-3	35-4
350.00	40-3	40-4	40-5	40-7	40-8	40-9	40-10	40-11	41-0	41-1
375.00	46-4	46-5	46-7	46-8	46-9	46-11	47-0	47-1	47-2	47-3

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	7-4	7-4	7-4	7-4	7-4	7-5	7-5	7-5	7-5	7-5
175.00	9-11	10-0	10-0	10-0	10-0	10-1	10-1	10-1	10-1	10-2
200.00	13-0	13-0	13-1	13-1	13-2	13-2	13-2	13-2	13-3	13-3
225.00	16-6	16-6	16-7	16-7	16-8	16-8	16-9	16-9	16-9	16-9
250.00	20-5	20-5	20-6	20-6	20-7	20-8	20-8	20-8	20-9	20-9
275.00	24-9	24-9	24-10	24-11	24-11	25-0	25-1	25-1	25-2	25-2
300.00	29-6	29-7	29-7	29-8	29-9	29-10	29-11	29-11	30-0	30-0
325.00	34-8	34-9	34-10	34-11	35-0	35-1	35-2	35-2	35-3	35-4
350.00	40-4	40-5	40-6	40-7	40-8	40-9	40-10	40-11	41-0	41-1
375.00	46-5	46-6	46-7	46-9	46-10	46-11	47-0	47-1	47-2	47-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 104 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.104
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	13-4	13-4	13-4	13-4	13-4	13-5	13-5	13-5	13-5	13-5
225.00	16-10	16-10	16-11	16-11	16-11	16-11	17-0	17-0	17-0	17-0
250.00	20-10	20-10	20-11	20-11	20-11	21-0	21-0	21-0	21-0	21-1
275.00	25-3	25-4	25-4	25-4	25-5	25-5	25-5	25-6	25-6	25-6
300.00	30-2	30-2	30-2	30-3	30-3	30-4	30-4	30-5	30-5	30-5
325.00	35-5	35-6	35-6	35-7	35-7	35-8	35-9	35-9	35-9	35-10
350.00	41-2	41-3	41-4	41-4	41-5	41-6	41-6	41-7	41-7	41-8
375.00	47-5	47-6	47-7	47-7	47-8	47-9	47-9	47-10	47-11	47-11
400.00	54-1	54-2	54-3	54-4	54-5	54-6	54-6	54-7	54-8	54-8
425.00	61-3	61-4	61-5	61-6	61-7	61-8	61-9	61-10	61-11	61-11
450.00	68-11	69-0	69-1	69-2	69-3	69-4	69-5	69-6	69-7	69-8
475.00	77-0	77-2	77-3	77-4	77-5	77-6	77-8	77-9	77-10	77-10
500.00	85-8	85-9	85-11	86-0	86-1	86-3	86-4	86-5	86-6	86-7

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	13-4	13-4	13-4	13-4	13-4	13-5	13-5	13-5	13-5	13-5
225.00	16-10	16-11	16-11	16-11	16-11	17-0	17-0	17-0	17-0	17-0
250.00	20-10	20-11	20-11	20-11	20-11	21-0	21-0	21-0	21-0	21-1
275.00	25-3	25-4	25-4	25-4	25-5	25-5	25-6	25-6	25-6	25-6
300.00	30-2	30-2	30-3	30-3	30-4	30-4	30-4	30-5	30-5	30-5
325.00	35-6	35-6	35-7	35-7	35-8	35-8	35-9	35-9	35-9	35-10
350.00	41-3	41-3	41-4	41-5	41-5	41-6	41-6	41-7	41-7	41-8
375.00	47-5	47-6	47-7	47-8	47-8	47-9	47-10	47-10	47-11	47-11
400.00	54-2	54-3	54-3	54-4	54-5	54-6	54-7	54-7	54-8	54-8
425.00	61-4	61-5	61-6	61-7	61-7	61-8	61-9	61-10	61-11	61-11
450.00	68-11	69-0	69-2	69-3	69-4	69-5	69-6	69-6	69-7	69-8
475.00	77-1	77-2	77-3	77-5	77-6	77-7	77-8	77-9	77-10	77-10
500.00	85-9	85-10	85-11	86-1	86-2	86-3	86-4	86-5	86-6	86-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div>SHEET</div> <div>105 OF 362</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.105
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS					

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	5.041	42.12	2500	42.12	2500*
0.0	0.00	0.00	0.00	1.134	41.94	565	41.89	565
30.0	0.00	0.00	0.00	1.134	42.20	561	42.16	562
40.0	0.00	0.00	0.00	1.134	42.29	560	42.24	561
50.0	0.00	0.00	0.00	1.134	42.38	559	42.33	560
60.0	0.00	0.00	0.00	1.134	42.46	558	42.42	559
70.0	0.00	0.00	0.00	1.134	42.55	557	42.50	558
80.0	0.00	0.00	0.00	1.134	42.64	556	42.59	557
90.0	0.00	0.00	0.00	1.134	42.71	555	42.67	556
100.0	0.00	0.00	0.00	1.134	42.76	555	42.76	555
110.0	0.00	0.00	0.00	1.134	42.83	554	42.83	554
120.0	0.00	0.00	0.00	1.134	42.88	553	42.88	553
130.0	0.00	0.00	0.00	1.134	42.93	553	42.93	553
167.0	0.00	0.00	0.00	1.134	43.13	550	43.13	550
212.0	0.00	0.00	0.00	1.134	43.36	548	43.36	548

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>108 OF 362</p> </div>	Indicates Latest Revision	Completely Revised	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.108</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 2500 LBS</p> </div>				

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	5.041	67.65	2500	67.65	2500*
0.0	0.00	0.00	0.00	1.134	67.47	564	67.42	564
30.0	0.00	0.00	0.00	1.134	67.73	562	67.69	562
40.0	0.00	0.00	0.00	1.134	67.82	561	67.77	562
50.0	0.00	0.00	0.00	1.134	67.91	561	67.86	561
60.0	0.00	0.00	0.00	1.134	67.99	560	67.94	560
70.0	0.00	0.00	0.00	1.134	68.08	559	68.03	560
80.0	0.00	0.00	0.00	1.134	68.16	559	68.12	559
90.0	0.00	0.00	0.00	1.134	68.24	558	68.20	558
100.0	0.00	0.00	0.00	1.134	68.29	558	68.29	558
110.0	0.00	0.00	0.00	1.134	68.36	557	68.36	557
120.0	0.00	0.00	0.00	1.134	68.41	557	68.41	557
130.0	0.00	0.00	0.00	1.134	68.46	557	68.46	557
167.0	0.00	0.00	0.00	1.134	68.66	555	68.66	555
212.0	0.00	0.00	0.00	1.134	68.89	554	68.89	554
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> SHEET 109 OF 362 </div>	Indicates Latest Revision	Completely Revised	<div style="border: 1px solid black; width: 15px; height: 15px; display: flex; align-items: center; justify-content: center;">X</div>	New Page	Information Removed	<div style="text-align: center;"> OH813.109 </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-6	2-7	2-7	2-7	2-7	2-8	2-8	2-8	2-8	2-9
125.00	3-11	4-0	4-0	4-1	4-1	4-1	4-2	4-2	4-3	4-3
150.00	5-8	5-9	5-9	5-10	5-11	5-11	6-0	6-0	6-1	6-1
175.00	7-9	7-10	7-11	7-11	8-0	8-1	8-2	8-2	8-3	8-4
200.00	10-2	10-3	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-10
225.00	12-10	12-11	13-1	13-2	13-3	13-5	13-6	13-7	13-8	13-9
250.00	15-10	16-0	16-2	16-3	16-5	16-6	16-8	16-10	16-11	17-0

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-6	2-7	2-7	2-7	2-7	2-8	2-8	2-8	2-8	2-9
125.00	4-0	4-0	4-0	4-1	4-1	4-2	4-2	4-2	4-3	4-3
150.00	5-9	5-9	5-10	5-10	5-11	5-11	6-0	6-0	6-1	6-1
175.00	7-9	7-10	7-11	8-0	8-1	8-1	8-2	8-3	8-3	8-4
200.00	10-2	10-3	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-10
225.00	12-11	13-0	13-1	13-3	13-4	13-5	13-7	13-8	13-8	13-9
250.00	15-11	16-1	16-3	16-4	16-6	16-7	16-9	16-10	16-11	17-0

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 111 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.111
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-9	5-9	5-10	5-10	5-10	5-10	5-11	5-11	5-11	5-11
175.00	7-10	7-11	7-11	7-11	8-0	8-0	8-0	8-1	8-1	8-1
200.00	10-3	10-4	10-4	10-4	10-5	10-5	10-6	10-6	10-7	10-7
225.00	13-0	13-1	13-1	13-2	13-2	13-3	13-3	13-4	13-4	13-5
250.00	16-1	16-1	16-2	16-3	16-4	16-4	16-5	16-6	16-6	16-7
275.00	19-5	19-6	19-7	19-8	19-9	19-10	19-11	19-11	20-0	20-1
300.00	23-2	23-3	23-4	23-5	23-6	23-7	23-8	23-9	23-10	23-11
325.00	27-3	27-4	27-5	27-7	27-8	27-9	27-10	27-11	28-1	28-2
350.00	31-8	31-9	31-11	32-0	32-1	32-3	32-4	32-6	32-7	32-8
375.00	36-5	36-6	36-8	36-9	36-11	37-1	37-2	37-4	37-6	37-7

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-9	5-10	5-10	5-10	5-10	5-11	5-11	5-11	5-11	5-11
175.00	7-10	7-11	7-11	7-11	8-0	8-0	8-0	8-1	8-1	8-1
200.00	10-3	10-4	10-4	10-5	10-5	10-6	10-6	10-6	10-7	10-7
225.00	13-0	13-1	13-1	13-2	13-3	13-3	13-4	13-4	13-5	13-5
250.00	16-1	16-2	16-3	16-3	16-4	16-5	16-5	16-6	16-6	16-7
275.00	19-6	19-7	19-8	19-9	19-9	19-10	19-11	20-0	20-0	20-1
300.00	23-3	23-4	23-5	23-6	23-7	23-8	23-9	23-10	23-10	23-11
325.00	27-4	27-5	27-6	27-7	27-8	27-10	27-11	28-0	28-1	28-2
350.00	31-8	31-10	31-11	32-1	32-2	32-4	32-5	32-6	32-7	32-8
375.00	36-5	36-7	36-9	36-10	37-0	37-2	37-3	37-5	37-6	37-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 112 OF 362		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH813.112
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0.0	1.00G	12.00	0.00	5.041	8.46	3000	8.46	3000*
0.0	0.00	0.00	0.00	1.134	8.20	696	8.13	702
30.0	0.00	0.00	0.00	1.134	8.52	670	8.45	676
40.0	0.00	0.00	0.00	1.134	8.62	663	8.56	668
50.0	0.00	0.00	0.00	1.134	8.72	655	8.66	660
60.0	0.00	0.00	0.00	1.134	8.82	648	8.76	652
70.0	0.00	0.00	0.00	1.134	8.92	640	8.86	645
80.0	0.00	0.00	0.00	1.134	9.02	634	8.95	638
90.0	0.00	0.00	0.00	1.134	9.12	627	9.05	632
100.0	0.00	0.00	0.00	1.134	9.19	622	9.15	625
110.0	0.00	0.00	0.00	1.134	9.25	618	9.24	619
120.0	0.00	0.00	0.00	1.134	9.31	614	9.31	614
130.0	0.00	0.00	0.00	1.134	9.37	611	9.37	611
167.0	0.00	0.00	0.00	1.134	9.57	598	9.57	598
212.0	0.00	0.00	0.00	1.134	9.82	583	9.82	583
* Design Condition								

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 115 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.115
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 3000 LBS									

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>116 OF 362</p> </div>	Indicates Latest Revision	Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH813.116</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 3000 LBS</p> </div>					

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	5.041	55.06	3000	55.06	3000*
0.0	0.00	0.00	0.00	1.134	54.81	678	54.73	679
30.0	0.00	0.00	0.00	1.134	55.12	674	55.06	675
40.0	0.00	0.00	0.00	1.134	55.23	673	55.16	674
50.0	0.00	0.00	0.00	1.134	55.33	672	55.26	673
60.0	0.00	0.00	0.00	1.134	55.43	671	55.37	672
70.0	0.00	0.00	0.00	1.134	55.54	670	55.47	670
80.0	0.00	0.00	0.00	1.134	55.64	669	55.57	669
90.0	0.00	0.00	0.00	1.134	55.74	667	55.67	668
100.0	0.00	0.00	0.00	1.134	55.84	666	55.78	667
110.0	0.00	0.00	0.00	1.134	55.90	666	55.88	666
120.0	0.00	0.00	0.00	1.134	55.98	665	55.98	665
130.0	0.00	0.00	0.00	1.134	56.04	664	56.04	664
167.0	0.00	0.00	0.00	1.134	56.27	662	56.27	662
212.0	0.00	0.00	0.00	1.134	56.55	659	56.55	659

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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<div style="text-align: center;"> <p>SHEET</p> <p>117 OF 362</p> </div>	Indicates Latest Revision	Completely Revised	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.117</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 3000 LBS</p> </div>				

Completely Revised

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New Page

Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

OH813.117

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-1	2-1	2-2	2-2	2-2	2-3	2-3	2-3	2-3	2-4
125.00	3-3	3-4	3-4	3-5	3-5	3-5	3-6	3-6	3-7	3-7
150.00	4-8	4-9	4-10	4-10	4-11	5-0	5-0	5-1	5-2	5-2
175.00	6-5	6-6	6-7	6-7	6-8	6-9	6-10	6-11	7-0	7-1
200.00	8-4	8-5	8-7	8-8	8-9	8-10	8-11	9-1	9-2	9-3
225.00	10-7	10-8	10-10	11-0	11-1	11-3	11-4	11-6	11-7	11-8
250.00	13-1	13-3	13-5	13-7	13-8	13-10	14-0	14-2	14-4	14-6

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-1	2-2	2-2	2-2	2-2	2-3	2-3	2-3	2-4	2-4
125.00	3-3	3-4	3-4	3-5	3-5	3-6	3-6	3-7	3-7	3-7
150.00	4-9	4-9	4-10	4-11	4-11	5-0	5-1	5-1	5-2	5-2
175.00	6-5	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-0	7-1
200.00	8-5	8-6	8-7	8-9	8-10	8-11	9-0	9-1	9-2	9-3
225.00	10-8	10-9	10-11	11-1	11-2	11-4	11-5	11-7	11-8	11-9
250.00	13-2	13-4	13-6	13-8	13-10	14-0	14-1	14-3	14-5	14-6

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>119 OF 362</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.119</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 3000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-9	4-9	4-10	4-10	4-10	4-11	4-11	4-11	4-11	5-0
175.00	6-6	6-6	6-7	6-7	6-7	6-8	6-8	6-9	6-9	6-9
200.00	8-6	8-6	8-7	8-7	8-8	8-8	8-9	8-9	8-10	8-10
225.00	10-9	10-9	10-10	10-11	10-11	11-0	11-1	11-1	11-2	11-3
250.00	13-3	13-4	13-5	13-5	13-6	13-7	13-8	13-9	13-10	13-11
275.00	16-0	16-1	16-3	16-4	16-5	16-6	16-7	16-8	16-9	16-10
300.00	19-1	19-2	19-4	19-5	19-6	19-7	19-9	19-10	19-11	20-0
325.00	22-5	22-7	22-8	22-10	22-11	23-1	23-2	23-3	23-5	23-6
350.00	26-1	26-2	26-4	26-6	26-7	26-9	26-11	27-0	27-2	27-4
375.00	29-11	30-1	30-3	30-5	30-7	30-9	30-11	31-1	31-3	31-5

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-9	4-10	4-10	4-10	4-10	4-11	4-11	4-11	5-0	5-0
175.00	6-6	6-6	6-7	6-7	6-8	6-8	6-8	6-9	6-9	6-9
200.00	8-6	8-6	8-7	8-8	8-8	8-9	8-9	8-10	8-10	8-10
225.00	10-9	10-10	10-10	10-11	11-0	11-1	11-1	11-2	11-2	11-3
250.00	13-3	13-4	13-5	13-6	13-7	13-8	13-9	13-9	13-10	13-11
275.00	16-1	16-2	16-3	16-4	16-5	16-6	16-7	16-8	16-9	16-10
300.00	19-2	19-3	19-5	19-6	19-7	19-8	19-9	19-11	20-0	20-0
325.00	22-6	22-8	22-9	22-11	23-0	23-1	23-3	23-4	23-6	23-6
350.00	26-2	26-3	26-5	26-7	26-8	26-10	27-0	27-1	27-3	27-4
375.00	30-0	30-2	30-4	30-6	30-8	30-10	31-0	31-2	31-4	31-5

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 120 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.120
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 3000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-7	8-7	8-7	8-8	8-8	8-8	8-9	8-9	8-9	8-9
225.00	10-10	10-11	10-11	10-11	11-0	11-0	11-0	11-1	11-1	11-2
250.00	13-5	13-5	13-6	13-6	13-7	13-7	13-8	13-8	13-9	13-9
275.00	16-3	16-3	16-4	16-4	16-5	16-6	16-6	16-7	16-7	16-8
300.00	19-4	19-5	19-5	19-6	19-7	19-7	19-8	19-9	19-9	19-10
325.00	22-8	22-9	22-10	22-11	23-0	23-0	23-1	23-2	23-3	23-4
350.00	26-4	26-5	26-6	26-7	26-8	26-9	26-10	26-11	27-0	27-1
375.00	30-3	30-5	30-6	30-7	30-8	30-9	30-10	30-11	31-0	31-1
400.00	34-6	34-7	34-8	34-10	34-11	35-0	35-1	35-3	35-4	35-5
425.00	39-0	39-1	39-3	39-4	39-6	39-7	39-8	39-10	39-11	40-1
450.00	43-9	43-11	44-1	44-2	44-4	44-5	44-7	44-8	44-10	44-11
475.00	48-10	49-0	49-2	49-3	49-5	49-7	49-9	49-10	50-0	50-2
500.00	54-2	54-4	54-6	54-8	54-10	55-0	55-2	55-4	55-6	55-8

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-7	8-7	8-8	8-8	8-8	8-8	8-9	8-9	8-9	8-10
225.00	10-10	10-11	10-11	11-0	11-0	11-0	11-1	11-1	11-1	11-2
250.00	13-5	13-6	13-6	13-7	13-7	13-7	13-8	13-8	13-9	13-9
275.00	16-3	16-4	16-4	16-5	16-5	16-6	16-7	16-7	16-8	16-8
300.00	19-4	19-5	19-6	19-6	19-7	19-8	19-8	19-9	19-10	19-10
325.00	22-9	22-10	22-11	22-11	23-0	23-1	23-2	23-3	23-3	23-4
350.00	26-5	26-6	26-7	26-8	26-9	26-10	26-11	26-11	27-0	27-1
375.00	30-4	30-5	30-6	30-7	30-9	30-10	30-11	31-0	31-1	31-1
400.00	34-7	34-8	34-9	34-11	35-0	35-1	35-2	35-4	35-5	35-5
425.00	39-1	39-2	39-4	39-5	39-7	39-8	39-9	39-11	40-0	40-1
450.00	43-10	44-0	44-2	44-3	44-5	44-6	44-8	44-9	44-11	45-0
475.00	48-11	49-1	49-3	49-5	49-6	49-8	49-10	50-0	50-1	50-2
500.00	54-4	54-6	54-8	54-10	55-0	55-2	55-4	55-6	55-7	55-8

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>121 OF 362</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH813.121	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 3000 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 123 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH813.123
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS										

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.573	32.29	1000	32.29	1000*
20	0	0	0	1.134	31.92	729	31.92	729
30	0	0	0	1.134	32.03	726	32.03	726
40	0	0	0	1.134	32.15	724	32.14	724
50	0	0	0	1.134	32.26	721	32.25	722
60	0	0	0	1.134	32.37	719	32.36	719
70	0	0	0	1.134	32.48	717	32.47	717
80	0	0	0	1.134	32.59	714	32.58	715
90	0	0	0	1.134	32.7	712	32.69	712
100	0	0	0	1.134	32.81	710	32.8	710
110	0	0	0	1.134	32.92	708	32.91	708
120	0	0	0	1.134	33.02	706	33.02	706
130	0	0	0	1.134	33.1	704	33.1	704
167	0	0	0	1.134	33.35	699	33.35	699
212	0	0	0	1.134	33.64	693	33.64	693
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 124 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.124
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.573	51.24	1000	51.24	1000*
20	0	0	0	1.134	50.88	725	50.87	726
30	0	0	0	1.134	50.99	724	50.98	724
40	0	0	0	1.134	51.1	723	51.09	723
50	0	0	0	1.134	51.21	721	51.2	721
60	0	0	0	1.134	51.32	720	51.31	720
70	0	0	0	1.134	51.43	718	51.43	718
80	0	0	0	1.134	51.55	717	51.54	717
90	0	0	0	1.134	51.66	715	51.65	716
100	0	0	0	1.134	51.77	714	51.76	714
110	0	0	0	1.134	51.88	713	51.86	713
120	0	0	0	1.134	51.97	711	51.97	711
130	0	0	0	1.134	52.06	710	52.06	710
167	0	0	0	1.134	52.31	707	52.31	707
212	0	0	0	1.134	52.61	704	52.61	704

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>125 OF 362</p> </div>	Indicates Latest Revision	Completely Revised	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.125</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 1000 LBS</p> </div>				

Stringing Sag Table Using Initial Sag							Ruling Span:	200.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-11	1-11	1-11	2-0	2-0	2-0	2-1	2-1	2-1	2-1
125.00	2-11	3-0	3-0	3-1	3-1	3-2	3-2	3-3	3-3	3-4
150.00	4-3	4-4	4-4	4-5	4-6	4-7	4-7	4-8	4-9	4-9
175.00	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6
200.00	7-6	7-8	7-9	7-11	8-0	8-1	8-2	8-4	8-5	8-6
225.00	9-7	9-8	9-10	10-0	10-1	10-3	10-5	10-6	10-8	10-9
250.00	11-9	12-0	12-2	12-4	12-6	12-8	12-10	13-0	13-2	13-4

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-11	1-11	1-11	2-0	2-0	2-0	2-1	2-1	2-1	2-2
125.00	2-11	3-0	3-0	3-1	3-1	3-2	3-2	3-3	3-3	3-4
150.00	4-3	4-4	4-4	4-5	4-6	4-7	4-7	4-8	4-9	4-9
175.00	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6
200.00	7-7	7-8	7-9	7-11	8-0	8-1	8-3	8-4	8-5	8-6
225.00	9-7	9-8	9-10	10-0	10-1	10-3	10-5	10-6	10-8	10-10
250.00	11-10	12-0	12-2	12-4	12-6	12-8	12-10	13-0	13-2	13-4

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<div>SHEET</div> <div>127 OF 362</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.127
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-11	7-11	8-0	8-0	8-0	8-1	8-1	8-1	8-2	8-2
225.00	10-0	10-1	10-1	10-2	10-2	10-3	10-3	10-3	10-4	10-4
250.00	12-5	12-5	12-6	12-6	12-7	12-7	12-8	12-8	12-9	12-9
275.00	15-0	15-1	15-1	15-2	15-3	15-3	15-4	15-5	15-5	15-6
300.00	17-11	17-11	18-0	18-1	18-2	18-2	18-3	18-4	18-5	18-5
325.00	21-0	21-1	21-2	21-3	21-4	21-4	21-5	21-6	21-7	21-8
350.00	24-5	24-6	24-7	24-8	24-9	24-10	24-11	25-0	25-1	25-2
375.00	28-0	28-1	28-3	28-4	28-5	28-6	28-7	28-8	28-10	28-11
400.00	31-11	32-0	32-2	32-3	32-4	32-6	32-7	32-8	32-10	32-11
425.00	36-1	36-2	36-4	36-5	36-7	36-8	36-10	36-11	37-1	37-2
450.00	40-6	40-8	40-9	40-11	41-1	41-2	41-4	41-6	41-7	41-9
475.00	45-2	45-4	45-6	45-8	45-10	45-11	46-1	46-3	46-5	46-7
500.00	50-1	50-3	50-6	50-8	50-10	51-0	51-2	51-4	51-6	51-8

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-11	8-0	8-0	8-0	8-0	8-1	8-1	8-1	8-2	8-2
225.00	10-1	10-1	10-1	10-2	10-2	10-3	10-3	10-3	10-4	10-4
250.00	12-5	12-5	12-6	12-6	12-7	12-7	12-8	12-8	12-9	12-9
275.00	15-0	15-1	15-2	15-2	15-3	15-3	15-4	15-5	15-5	15-6
300.00	17-11	17-11	18-0	18-1	18-2	18-2	18-3	18-4	18-5	18-5
325.00	21-0	21-1	21-2	21-3	21-4	21-5	21-5	21-6	21-7	21-8
350.00	24-5	24-6	24-7	24-8	24-9	24-10	24-11	25-0	25-1	25-2
375.00	28-0	28-2	28-3	28-4	28-5	28-6	28-7	28-9	28-10	28-11
400.00	31-11	32-0	32-2	32-3	32-4	32-6	32-7	32-8	32-10	32-11
425.00	36-1	36-2	36-4	36-5	36-7	36-9	36-10	37-0	37-1	37-3
450.00	40-6	40-8	40-9	40-11	41-1	41-2	41-4	41-6	41-8	41-9
475.00	45-2	45-4	45-6	45-8	45-10	46-0	46-1	46-3	46-5	46-7
500.00	50-1	50-3	50-6	50-8	50-10	51-0	51-2	51-4	51-6	51-8

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 129 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.129
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS									

* Design Condition

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>131 OF 362</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.131
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.573	21.27	1496	21.22	1500*
20	0	0	0	1.134	20.69	1108	20.62	1111
30	0	0	0	1.134	20.86	1099	20.79	1103
40	0	0	0	1.134	21.03	1091	20.96	1094
50	0	0	0	1.134	21.19	1082	21.13	1086
60	0	0	0	1.134	21.36	1074	21.29	1077
70	0	0	0	1.134	21.52	1066	21.45	1069
80	0	0	0	1.134	21.69	1058	21.62	1061
90	0	0	0	1.134	21.85	1050	21.78	1054
100	0	0	0	1.134	22.01	1043	21.94	1046
110	0	0	0	1.134	22.17	1035	22.1	1039
120	0	0	0	1.134	22.33	1028	22.26	1032
130	0	0	0	1.134	22.49	1021	22.41	1025
167	0	0	0	1.134	22.96	1001	22.96	1001
212	0	0	0	1.134	23.36	984	23.36	984
* Design Condition								

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>132 OF 362</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH813.132
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.573	33.42	1498	33.37	1500*
20	0	0	0	1.134	32.84	1098	32.77	1100
30	0	0	0	1.134	33.01	1092	32.94	1094
40	0	0	0	1.134	33.18	1087	33.11	1089
50	0	0	0	1.134	33.34	1082	33.28	1084
60	0	0	0	1.134	33.51	1077	33.44	1079
70	0	0	0	1.134	33.68	1071	33.61	1074
80	0	0	0	1.134	33.84	1066	33.77	1069
90	0	0	0	1.134	34.01	1061	33.93	1064
100	0	0	0	1.134	34.17	1057	34.09	1059
110	0	0	0	1.134	34.33	1052	34.26	1054
120	0	0	0	1.134	34.49	1047	34.42	1049
130	0	0	0	1.134	34.66	1042	34.58	1045
167	0	0	0	1.134	35.15	1028	35.15	1028
212	0	0	0	1.134	35.58	1016	35.58	1016
* Design Condition								

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>133 OF 362</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH813.133</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 1500 LBS</p> </div>				

Completely Revised



Information Removed

OH813.133

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-1
100.00	0-9	0-11	1-1	1-3	1-5	1-6	1-8	1-9	1-10	2-0
125.00	1-3	1-5	1-8	1-11	2-2	2-4	2-7	2-9	2-11	3-1
150.00	1-9	2-1	2-5	2-9	3-1	3-5	3-8	3-11	4-2	4-5
175.00	2-4	2-10	3-4	3-9	4-3	4-8	5-0	5-5	5-9	6-1
200.00	3-1	3-9	4-4	4-11	5-6	6-1	6-7	7-0	7-6	7-11

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-2
100.00	0-9	0-11	1-1	1-3	1-5	1-7	1-8	1-10	1-11	2-0
125.00	1-3	1-6	1-9	2-0	2-3	2-5	2-7	2-10	3-0	3-2
150.00	1-9	2-2	2-6	2-10	3-2	3-6	3-9	4-1	4-4	4-7
175.00	2-5	2-11	3-5	3-11	4-4	4-9	5-2	5-6	5-10	6-2
200.00	3-2	3-10	4-6	5-1	5-8	6-3	6-9	7-2	7-8	8-1

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SHEET 134 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.134
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-3	1-3	1-4	1-4	1-4	1-5	1-5	1-6	1-6
125.00	1-10	1-11	1-11	2-0	2-1	2-2	2-2	2-3	2-4	2-4
150.00	2-7	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5
175.00	3-7	3-8	3-10	4-0	4-1	4-2	4-4	4-5	4-6	4-8
200.00	4-8	4-10	5-0	5-2	5-4	5-6	5-8	5-9	5-11	6-1
225.00	5-11	6-1	6-4	6-7	6-9	6-11	7-2	7-4	7-6	7-8
250.00	7-3	7-7	7-10	8-1	8-4	8-7	8-10	9-1	9-3	9-6

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-6
125.00	1-10	1-11	2-0	2-1	2-1	2-2	2-3	2-3	2-4	2-5
150.00	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5
175.00	3-7	3-9	3-11	4-0	4-2	4-3	4-4	4-6	4-7	4-8
200.00	4-9	4-11	5-1	5-3	5-5	5-7	5-8	5-10	6-0	6-2
225.00	6-0	6-2	6-5	6-7	6-10	7-0	7-3	7-5	7-7	7-9
250.00	7-5	7-8	7-11	8-2	8-5	8-8	8-11	9-2	9-5	9-7

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SHEET 135 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.135
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-10	2-10	2-11	2-11	3-0	3-0	3-1	3-1	3-2	3-2
175.00	3-10	3-11	3-11	4-0	4-1	4-1	4-2	4-3	4-3	4-4
200.00	5-0	5-1	5-2	5-3	5-4	5-5	5-5	5-6	5-7	5-8
225.00	6-4	6-5	6-6	6-7	6-9	6-10	6-11	7-0	7-1	7-2
250.00	7-10	7-11	8-1	8-2	8-4	8-5	8-6	8-7	8-9	8-10
275.00	9-6	9-7	9-9	9-11	10-0	10-2	10-4	10-5	10-7	10-8
300.00	11-3	11-5	11-7	11-9	11-11	12-1	12-3	12-5	12-7	12-9
325.00	13-3	13-5	13-8	13-10	14-0	14-3	14-5	14-7	14-9	14-11
350.00	15-4	15-7	15-10	16-1	16-3	16-6	16-9	16-11	17-2	17-4
375.00	17-8	17-11	18-2	18-5	18-8	18-11	19-2	19-5	19-8	19-11

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-10	2-10	2-11	2-11	3-0	3-0	3-1	3-1	3-2	3-2
175.00	3-10	3-11	4-0	4-0	4-1	4-2	4-2	4-3	4-4	4-4
200.00	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-7	5-8
225.00	6-5	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-1	7-2
250.00	7-10	8-0	8-1	8-3	8-4	8-5	8-7	8-8	8-9	8-11
275.00	9-6	9-8	9-10	9-11	10-1	10-3	10-4	10-6	10-8	10-9
300.00	11-4	11-6	11-8	11-10	12-0	12-2	12-4	12-6	12-8	12-10
325.00	13-4	13-6	13-9	13-11	14-1	14-4	14-6	14-8	14-10	15-0
350.00	15-5	15-8	15-11	16-2	16-4	16-7	16-10	17-0	17-3	17-5
375.00	17-9	18-0	18-3	18-6	18-10	19-1	19-4	19-7	19-10	20-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
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SHEET 136 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.136
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS					

Span = 100 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.573	1.06	1856	0.98	2000*
20	0	0	0	1.134	0.5	2827	0.48	2971
30	0	0	0	1.134	0.64	2216	0.58	2424
40	0	0	0	1.134	0.8	1768	0.72	1973
50	0	0	0	1.134	0.97	1461	0.87	1631
60	0	0	0	1.134	1.13	1251	1.03	1383
70	0	0	0	1.134	1.29	1102	1.18	1204
80	0	0	0	1.134	1.43	991	1.32	1072
90	0	0	0	1.134	1.57	907	1.46	972
100	0	0	0	1.134	1.69	839	1.59	893
110	0	0	0	1.134	1.81	784	1.71	829
120	0	0	0	1.134	1.88	754	1.83	777
130	0	0	0	1.134	1.94	732	1.93	735
167	0	0	0	1.134	2.14	663	2.13	666
212	0	0	0	1.134	2.38	598	2.36	601

* Design Condition

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.573	4.08	1931	3.94	2000*
20	0	0	0	1.134	3.31	1715	3.14	1809
30	0	0	0	1.134	3.54	1605	3.36	1688
40	0	0	0	1.134	3.76	1512	3.58	1586
50	0	0	0	1.134	3.96	1432	3.79	1498
60	0	0	0	1.134	4.17	1363	3.99	1422
70	0	0	0	1.134	4.36	1303	4.19	1356
80	0	0	0	1.134	4.55	1249	4.38	1298
90	0	0	0	1.134	4.73	1202	4.56	1246
100	0	0	0	1.134	4.9	1159	4.74	1200
110	0	0	0	1.134	5.07	1120	4.91	1158
120	0	0	0	1.134	5.24	1085	5.08	1120
130	0	0	0	1.134	5.4	1053	5.24	1085
167	0	0	0	1.134	5.77	985	5.77	986
212	0	0	0	1.134	6.13	928	6.13	929
* Design Condition								

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<div>SHEET</div> <div>139 OF 362</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH813.139
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.573	16.01	1978	15.83	2000*
20	0	0	0	1.134	15.21	1500	15.01	1520
30	0	0	0	1.134	15.44	1478	15.23	1498
40	0	0	0	1.134	15.66	1457	15.45	1476
50	0	0	0	1.134	15.88	1437	15.67	1456
60	0	0	0	1.134	16.1	1418	15.89	1436
70	0	0	0	1.134	16.31	1399	16.11	1417
80	0	0	0	1.134	16.53	1382	16.32	1399
90	0	0	0	1.134	16.74	1365	16.53	1382
100	0	0	0	1.134	16.94	1348	16.73	1365
110	0	0	0	1.134	17.15	1332	16.94	1349
120	0	0	0	1.134	17.35	1317	17.14	1333
130	0	0	0	1.134	17.55	1302	17.34	1318
167	0	0	0	1.134	18.25	1253	18.06	1266
212	0	0	0	1.134	18.74	1221	18.74	1221

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
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		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.573	25.01	1986	24.83	2000*
20	0	0	0	1.134	24.21	1478	24	1490
30	0	0	0	1.134	24.44	1464	24.22	1477
40	0	0	0	1.134	24.66	1451	24.45	1463
50	0	0	0	1.134	24.88	1438	24.67	1451
60	0	0	0	1.134	25.1	1426	24.89	1438
70	0	0	0	1.134	25.32	1414	25.1	1426
80	0	0	0	1.134	25.53	1402	25.32	1414
90	0	0	0	1.134	25.75	1391	25.53	1402
100	0	0	0	1.134	25.96	1380	25.74	1391
110	0	0	0	1.134	26.17	1369	25.95	1380
120	0	0	0	1.134	26.38	1358	26.16	1369
130	0	0	0	1.134	26.59	1348	26.37	1359
167	0	0	0	1.134	27.35	1311	27.12	1322
212	0	0	0	1.134	27.9	1286	27.9	1286

* Design Condition

* Design Condition

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<div style="text-align: center;"> <p>SHEET</p> <p>141 OF 362</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.141</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 2000 LBS</p> </div>					

Completely Revised

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Information Removed

OH813.141

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0
100.00	0-6	0-7	0-9	0-10	1-0	1-2	1-4	1-6	1-7	1-9
125.00	0-9	0-11	1-1	1-4	1-7	1-10	2-1	2-3	2-6	2-8
150.00	1-1	1-4	1-7	1-11	2-4	2-8	3-0	3-3	3-7	3-10
175.00	1-6	1-9	2-2	2-8	3-2	3-7	4-1	4-6	4-10	5-3
200.00	1-11	2-4	2-10	3-6	4-1	4-9	5-4	5-10	6-4	6-10

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-7	0-8	0-9	0-10	0-11	0-11	1-0
100.00	0-6	0-8	0-10	1-0	1-2	1-3	1-5	1-7	1-8	1-10
125.00	0-9	1-0	1-3	1-6	1-9	2-0	2-3	2-5	2-8	2-10
150.00	1-2	1-5	1-10	2-2	2-7	2-11	3-3	3-6	3-10	4-1
175.00	1-6	2-0	2-5	3-0	3-6	3-11	4-5	4-10	5-2	5-7
200.00	2-0	2-7	3-2	3-11	4-6	5-2	5-9	6-3	6-9	7-3

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	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-2	1-3
125.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-9	1-10	1-11
150.00	1-9	1-11	2-0	2-2	2-3	2-4	2-6	2-7	2-8	2-9
175.00	2-5	2-7	2-9	2-11	3-1	3-2	3-4	3-6	3-8	3-9
200.00	3-2	3-4	3-7	3-9	4-0	4-2	4-5	4-7	4-9	4-11
225.00	4-0	4-3	4-6	4-10	5-1	5-4	5-6	5-9	6-0	6-3
250.00	4-11	5-3	5-7	5-11	6-3	6-7	6-10	7-2	7-5	7-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-3
125.00	1-4	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-11	2-0
150.00	1-10	2-0	2-1	2-3	2-4	2-5	2-7	2-8	2-9	2-10
175.00	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-7	3-9	3-11
200.00	3-4	3-6	3-9	4-0	4-2	4-4	4-7	4-9	4-11	5-1
225.00	4-2	4-6	4-9	5-0	5-3	5-6	5-9	6-0	6-2	6-5
250.00	5-2	5-6	5-10	6-2	6-6	6-10	7-1	7-5	7-8	7-11

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	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 2000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-0	2-1	2-2	2-2	2-3	2-3	2-4	2-5	2-5	2-6
175.00	2-9	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-4	3-5
200.00	3-7	3-8	3-9	3-11	4-0	4-1	4-2	4-3	4-4	4-5
225.00	4-6	4-8	4-9	4-11	5-0	5-2	5-3	5-4	5-6	5-7
250.00	5-7	5-9	5-11	6-1	6-2	6-4	6-6	6-8	6-9	6-11
275.00	6-9	7-0	7-2	7-4	7-6	7-8	7-10	8-0	8-2	8-4
300.00	8-1	8-3	8-6	8-9	8-11	9-2	9-4	9-7	9-9	9-11
325.00	9-5	9-9	10-0	10-3	10-6	10-9	11-0	11-3	11-5	11-8
350.00	11-0	11-3	11-7	11-11	12-2	12-5	12-9	13-0	13-3	13-7
375.00	12-7	12-11	13-4	13-8	14-0	14-4	14-7	14-11	15-3	15-7

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-1	2-1	2-2	2-3	2-3	2-4	2-5	2-5	2-6	2-6
175.00	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-4	3-5	3-5
200.00	3-8	3-9	3-10	4-0	4-1	4-2	4-3	4-4	4-5	4-6
225.00	4-8	4-9	4-11	5-0	5-2	5-3	5-4	5-6	5-7	5-8
250.00	5-9	5-11	6-1	6-2	6-4	6-6	6-8	6-9	6-11	7-0
275.00	6-11	7-2	7-4	7-6	7-8	7-10	8-0	8-2	8-4	8-6
300.00	8-3	8-6	8-8	8-11	9-2	9-4	9-7	9-9	9-11	10-2
325.00	9-8	9-11	10-3	10-6	10-9	11-0	11-3	11-5	11-8	11-11
350.00	11-3	11-7	11-10	12-2	12-5	12-9	13-0	13-3	13-7	13-10
375.00	12-11	13-3	13-7	13-11	14-3	14-7	14-11	15-3	15-7	15-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 144 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.144
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-9	3-10	3-10	3-11	4-0	4-0	4-1	4-1	4-2	4-3
225.00	4-9	4-10	4-11	4-11	5-0	5-1	5-2	5-3	5-3	5-4
250.00	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7
275.00	7-1	7-2	7-4	7-5	7-6	7-7	7-8	7-10	7-11	8-0
300.00	8-5	8-7	8-8	8-10	8-11	9-1	9-2	9-3	9-5	9-6
325.00	9-11	10-1	10-2	10-4	10-6	10-7	10-9	10-11	11-0	11-2
350.00	11-6	11-8	11-10	12-0	12-2	12-4	12-6	12-8	12-10	13-0
375.00	13-2	13-5	13-7	13-9	14-0	14-2	14-4	14-6	14-8	14-11
400.00	15-0	15-3	15-5	15-8	15-11	16-1	16-4	16-6	16-9	16-11
425.00	16-11	17-2	17-5	17-8	17-11	18-2	18-5	18-8	18-11	19-2
450.00	19-0	19-3	19-7	19-10	20-1	20-5	20-8	20-11	21-2	21-5
475.00	21-2	21-6	21-10	22-1	22-5	22-9	23-0	23-4	23-7	23-11
500.00	23-6	23-10	24-2	24-6	24-10	25-2	25-6	25-10	26-2	26-6

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-10	3-10	3-11	4-0	4-0	4-1	4-1	4-2	4-3	4-3
225.00	4-10	4-11	4-11	5-0	5-1	5-2	5-3	5-3	5-4	5-5
250.00	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-8
275.00	7-2	7-3	7-5	7-6	7-7	7-8	7-10	7-11	8-0	8-1
300.00	8-7	8-8	8-10	8-11	9-1	9-2	9-3	9-5	9-6	9-8
325.00	10-0	10-2	10-4	10-6	10-7	10-9	10-11	11-0	11-2	11-4
350.00	11-8	11-10	12-0	12-2	12-4	12-6	12-8	12-10	13-0	13-1
375.00	13-4	13-7	13-9	13-11	14-2	14-4	14-6	14-8	14-11	15-1
400.00	15-3	15-5	15-8	15-11	16-1	16-4	16-6	16-9	16-11	17-2
425.00	17-2	17-5	17-8	17-11	18-2	18-5	18-8	18-11	19-2	19-4
450.00	19-3	19-7	19-10	20-1	20-5	20-8	20-11	21-2	21-5	21-9
475.00	21-6	21-9	22-1	22-5	22-9	23-0	23-4	23-7	23-11	24-2
500.00	23-10	24-2	24-6	24-10	25-2	25-6	25-10	26-2	26-6	26-10

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Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-0	6-1	6-1	6-2	6-2	6-3	6-4	6-4	6-5	6-6
275.00	7-3	7-4	7-5	7-5	7-6	7-7	7-8	7-8	7-9	7-10
300.00	8-7	8-8	8-9	8-10	8-11	9-0	9-1	9-2	9-3	9-4
325.00	10-1	10-3	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-11
350.00	11-9	11-10	12-0	12-1	12-2	12-3	12-5	12-6	12-7	12-8
375.00	13-6	13-7	13-9	13-10	14-0	14-1	14-3	14-4	14-6	14-7
400.00	15-4	15-6	15-8	15-9	15-11	16-1	16-2	16-4	16-5	16-7
425.00	17-4	17-6	17-8	17-10	18-0	18-1	18-3	18-5	18-7	18-9
450.00	19-5	19-7	19-9	20-0	20-2	20-4	20-6	20-8	20-10	21-0
475.00	21-8	21-10	22-1	22-3	22-5	22-8	22-10	23-0	23-3	23-5
500.00	24-0	24-3	24-5	24-8	24-11	25-1	25-4	25-6	25-9	25-11
525.00	26-6	26-9	27-0	27-2	27-5	27-8	27-11	28-2	28-5	28-7
550.00	29-1	29-4	29-7	29-10	30-2	30-5	30-8	30-11	31-2	31-5
575.00	31-9	32-1	32-4	32-8	32-11	33-3	33-6	33-10	34-1	34-4
600.00	34-7	34-11	35-3	35-7	35-11	36-2	36-6	36-10	37-2	37-5
625.00	37-7	37-11	38-3	38-7	38-11	39-4	39-8	40-0	40-4	40-8

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<div style="text-align: center;"> <p>SHEET</p> <p>146 OF 362</p> </div>	Indicates Latest Revision		Completely Revised	<div style="border: 1px solid black; padding: 2px;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.146</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 2000 LBS</p> </div>						

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>147 OF 362</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH813.147	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS									

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>148 OF 362</p> </div>	Indicates Latest Revision	Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH813.148</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 2500 LBS</p> </div>					

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.573	20.14	2458	19.79	2500*
20	0	0	0	1.134	19.12	1865	18.71	1904
30	0	0	0	1.134	19.39	1838	18.99	1877
40	0	0	0	1.134	19.67	1813	19.27	1850
50	0	0	0	1.134	19.94	1788	19.54	1824
60	0	0	0	1.134	20.21	1765	19.81	1800
70	0	0	0	1.134	20.48	1742	20.08	1776
80	0	0	0	1.134	20.74	1720	20.34	1754
90	0	0	0	1.134	21	1699	20.6	1732
100	0	0	0	1.134	21.26	1679	20.86	1711
110	0	0	0	1.134	21.51	1659	21.11	1690
120	0	0	0	1.134	21.76	1641	21.37	1671
130	0	0	0	1.134	22.01	1622	21.61	1652
167	0	0	0	1.134	22.91	1560	22.51	1587
212	0	0	0	1.134	23.68	1510	23.56	1517

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>149 OF 362</p> </div>	Indicates Latest Revision	Completely Revised	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.149</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 2500 LBS</p> </div>				

Completely Revised

Completely Revised

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New Page

Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.149

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-7	0-8	0-9	0-10	0-10	0-11	0-11	1-0	1-1
125.00	0-10	0-11	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
150.00	1-3	1-5	1-6	1-8	1-9	1-11	2-0	2-2	2-3	2-4
175.00	1-8	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-1	3-3
200.00	2-2	2-5	2-8	2-11	3-2	3-5	3-7	3-10	4-0	4-3
225.00	2-9	3-1	3-5	3-9	4-0	4-4	4-7	4-10	5-1	5-4
250.00	3-5	3-10	4-3	4-7	4-11	5-4	5-8	6-0	6-3	6-7

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-1
125.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
150.00	1-5	1-6	1-8	1-10	1-11	2-1	2-2	2-4	2-5	2-6
175.00	1-11	2-1	2-3	2-6	2-8	2-10	3-0	3-2	3-3	3-5
200.00	2-6	2-9	3-0	3-3	3-6	3-8	3-11	4-1	4-4	4-6
225.00	3-2	3-6	3-9	4-1	4-5	4-8	4-11	5-2	5-5	5-8
250.00	3-10	4-3	4-8	5-1	5-5	5-9	6-1	6-5	6-9	7-0

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 151 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.151
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-11	3-0	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-6
225.00	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5
250.00	4-6	4-7	4-9	4-10	4-11	5-1	5-2	5-3	5-4	5-5
275.00	5-6	5-7	5-9	5-10	6-0	6-1	6-3	6-4	6-6	6-7
300.00	6-6	6-8	6-10	7-0	7-1	7-3	7-5	7-7	7-8	7-10
325.00	7-8	7-10	8-0	8-2	8-4	8-6	8-8	8-10	9-0	9-2
350.00	8-10	9-1	9-3	9-6	9-8	9-11	10-1	10-3	10-6	10-8
375.00	10-2	10-5	10-8	10-11	11-1	11-4	11-7	11-10	12-0	12-3
400.00	11-7	11-10	12-1	12-5	12-8	12-11	13-2	13-5	13-8	13-11
425.00	13-1	13-5	13-8	14-0	14-4	14-7	14-11	15-2	15-5	15-9
450.00	14-8	15-0	15-4	15-8	16-0	16-4	16-8	17-0	17-4	17-8
475.00	16-4	16-9	17-1	17-6	17-10	18-3	18-7	18-11	19-4	19-8
500.00	18-1	18-6	18-11	19-5	19-10	20-2	20-7	21-0	21-5	21-9

Stringing Sag Table Using Final Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-0	3-1	3-1	3-2	3-3	3-4	3-5	3-5	3-6	3-7
225.00	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6
250.00	4-8	4-9	4-11	5-0	5-1	5-2	5-3	5-5	5-6	5-7
275.00	5-8	5-9	5-11	6-0	6-2	6-3	6-5	6-6	6-8	6-9
300.00	6-9	6-11	7-0	7-2	7-4	7-6	7-7	7-9	7-11	8-0
325.00	7-11	8-1	8-3	8-5	8-7	8-9	8-11	9-1	9-3	9-5
350.00	9-2	9-4	9-7	9-9	10-0	10-2	10-5	10-7	10-9	10-11
375.00	10-6	10-9	11-0	11-3	11-6	11-8	11-11	12-2	12-4	12-7
400.00	11-11	12-3	12-6	12-9	13-1	13-4	13-7	13-10	14-1	14-4
425.00	13-6	13-10	14-2	14-5	14-9	15-0	15-4	15-7	15-10	16-2
450.00	15-2	15-6	15-10	16-2	16-6	16-10	17-2	17-6	17-10	18-1
475.00	16-10	17-3	17-8	18-0	18-5	18-9	19-2	19-6	19-10	20-2
500.00	18-8	19-2	19-7	20-0	20-5	20-10	21-2	21-7	22-0	22-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 153 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.153
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS					

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>155 OF 362</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH813.155
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 3000 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.573	11.02	2865	10.52	3000*
20	0	0	0	1.134	9.81	2319	9.21	2469
30	0	0	0	1.134	10.13	2244	9.54	2384
40	0	0	0	1.134	10.45	2176	9.86	2306
50	0	0	0	1.134	10.76	2113	10.17	2235
60	0	0	0	1.134	11.07	2056	10.48	2169
70	0	0	0	1.134	11.36	2002	10.79	2109
80	0	0	0	1.134	11.66	1952	11.08	2053
90	0	0	0	1.134	11.94	1906	11.37	2001
100	0	0	0	1.134	12.22	1863	11.66	1952
110	0	0	0	1.134	12.49	1822	11.93	1907
120	0	0	0	1.134	12.76	1784	12.21	1865
130	0	0	0	1.134	13.03	1748	12.48	1825
167	0	0	0	1.134	13.97	1632	13.43	1696
212	0	0	0	1.134	14.68	1553	14.52	1571

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>156 OF 362</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH813.156
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 3000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.573	17	2906	16.46	3000*
20	0	0	0	1.134	15.75	2258	15.12	2352
30	0	0	0	1.134	16.09	2212	15.46	2301
40	0	0	0	1.134	16.41	2169	15.78	2254
50	0	0	0	1.134	16.73	2128	16.11	2209
60	0	0	0	1.134	17.04	2089	16.42	2167
70	0	0	0	1.134	17.35	2052	16.74	2127
80	0	0	0	1.134	17.66	2017	17.04	2089
90	0	0	0	1.134	17.96	1984	17.35	2053
100	0	0	0	1.134	18.25	1952	17.65	2018
110	0	0	0	1.134	18.55	1921	17.94	1986
120	0	0	0	1.134	18.83	1892	18.23	1954
130	0	0	0	1.134	19.12	1865	18.52	1924
167	0	0	0	1.134	20.13	1772	19.54	1825
212	0	0	0	1.134	21.07	1694	20.73	1721
* Design Condition								

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>157 OF 362</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.157</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 3000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9
100.00	0-4	0-4	0-5	0-6	0-8	0-9	0-11	1-1	1-3	1-5
125.00	0-6	0-7	0-8	0-10	1-0	1-3	1-6	1-9	1-11	2-2
150.00	0-8	0-10	1-0	1-2	1-5	1-9	2-1	2-6	2-10	3-1
175.00	0-11	1-1	1-4	1-7	2-0	2-5	2-10	3-4	3-10	4-3
200.00	1-3	1-5	1-9	2-1	2-7	3-2	3-9	4-5	5-0	5-7

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11
100.00	0-4	0-5	0-6	0-8	0-10	1-0	1-2	1-4	1-6	1-7
125.00	0-6	0-8	0-10	1-1	1-4	1-7	1-10	2-1	2-3	2-6
150.00	0-9	0-11	1-2	1-6	1-11	2-3	2-8	3-0	3-4	3-7
175.00	1-0	1-3	1-8	2-1	2-7	3-1	3-7	4-1	4-6	4-11
200.00	1-4	1-8	2-2	2-8	3-4	4-1	4-8	5-4	5-10	6-5

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[illegible]

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-11	0-11
125.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-6
150.00	0-11	1-1	1-2	1-4	1-6	1-7	1-9	1-10	2-0	2-1
175.00	1-3	1-5	1-7	1-10	2-0	2-2	2-4	2-6	2-8	2-10
200.00	1-8	1-10	2-1	2-4	2-7	2-10	3-1	3-4	3-6	3-9
225.00	2-1	2-4	2-8	3-0	3-3	3-7	3-11	4-2	4-5	4-9
250.00	2-7	2-11	3-3	3-8	4-1	4-5	4-10	5-2	5-6	5-10

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-0
125.00	0-9	0-10	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7
150.00	1-1	1-3	1-5	1-7	1-8	1-10	1-11	2-1	2-2	2-4
175.00	1-6	1-8	1-11	2-1	2-4	2-6	2-8	2-10	3-0	3-2
200.00	1-11	2-3	2-6	2-9	3-0	3-3	3-6	3-8	3-11	4-1
225.00	2-6	2-10	3-2	3-6	3-10	4-1	4-5	4-8	4-11	5-2
250.00	3-1	3-6	3-11	4-4	4-8	5-1	5-5	5-9	6-1	6-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 159 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.159
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 3000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-2	1-3	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-10
175.00	1-7	1-8	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5
200.00	2-1	2-3	2-4	2-6	2-7	2-9	2-10	3-0	3-1	3-2
225.00	2-7	2-10	3-0	3-2	3-4	3-6	3-7	3-9	3-11	4-1
250.00	3-3	3-5	3-8	3-11	4-1	4-3	4-6	4-8	4-10	5-0
275.00	3-11	4-2	4-5	4-8	4-11	5-2	5-5	5-8	5-10	6-1
300.00	4-8	5-0	5-3	5-7	5-11	6-2	6-5	6-8	7-0	7-3
325.00	5-6	5-10	6-2	6-7	6-11	7-3	7-7	7-10	8-2	8-6
350.00	6-4	6-9	7-2	7-7	8-0	8-5	8-9	9-2	9-6	9-10
375.00	7-4	7-9	8-3	8-9	9-2	9-8	10-1	10-6	10-11	11-3

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-4	1-5	1-5	1-6	1-7	1-8	1-9	1-10	1-10	1-11
175.00	1-9	1-10	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7
200.00	2-4	2-5	2-7	2-9	2-10	3-0	3-1	3-2	3-4	3-5
225.00	2-11	3-1	3-3	3-5	3-7	3-9	3-11	4-1	4-2	4-4
250.00	3-7	3-10	4-0	4-3	4-5	4-8	4-10	5-0	5-2	5-4
275.00	4-4	4-8	4-11	5-2	5-5	5-7	5-10	6-1	6-3	6-6
300.00	5-2	5-6	5-10	6-1	6-5	6-8	6-11	7-2	7-6	7-8
325.00	6-1	6-6	6-10	7-2	7-6	7-10	8-2	8-5	8-9	9-1
350.00	7-1	7-6	7-11	8-4	8-9	9-1	9-5	9-10	10-2	10-6
375.00	8-1	8-7	9-1	9-7	10-0	10-5	10-10	11-3	11-8	12-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 160 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.160
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 3000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-4	2-5	2-6	2-7	2-7	2-8	2-9	2-10	2-11	3-0
225.00	2-11	3-0	3-1	3-3	3-4	3-5	3-6	3-7	3-8	3-9
250.00	3-7	3-9	3-10	4-0	4-1	4-3	4-4	4-5	4-7	4-8
275.00	4-4	4-6	4-8	4-10	4-11	5-1	5-3	5-4	5-6	5-8
300.00	5-2	5-4	5-7	5-9	5-11	6-1	6-3	6-5	6-7	6-9
325.00	6-1	6-4	6-6	6-9	6-11	7-1	7-4	7-6	7-8	7-11
350.00	7-1	7-4	7-7	7-9	8-0	8-3	8-6	8-8	8-11	9-2
375.00	8-1	8-5	8-8	8-11	9-3	9-6	9-9	10-0	10-3	10-6
400.00	9-2	9-6	9-10	10-2	10-6	10-9	11-1	11-4	11-8	11-11
425.00	10-5	10-9	11-2	11-6	11-10	12-2	12-6	12-10	13-2	13-6
450.00	11-8	12-1	12-6	12-11	13-3	13-8	14-0	14-5	14-9	15-1
475.00	13-0	13-5	13-11	14-4	14-9	15-3	15-8	16-1	16-5	16-10
500.00	14-5	14-11	15-5	15-11	16-5	16-10	17-4	17-9	18-3	18-8

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-1
225.00	3-1	3-2	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11
250.00	3-10	3-11	4-1	4-2	4-4	4-5	4-7	4-8	4-9	4-11
275.00	4-8	4-9	4-11	5-1	5-3	5-4	5-6	5-8	5-9	5-11
300.00	5-6	5-8	5-11	6-1	6-3	6-5	6-7	6-9	6-10	7-0
325.00	6-6	6-8	6-11	7-1	7-4	7-6	7-8	7-11	8-1	8-3
350.00	7-6	7-9	8-0	8-3	8-6	8-8	8-11	9-2	9-4	9-7
375.00	8-7	8-11	9-2	9-5	9-9	10-0	10-3	10-6	10-9	11-0
400.00	9-10	10-2	10-5	10-9	11-1	11-4	11-8	11-11	12-3	12-6
425.00	11-1	11-5	11-10	12-2	12-6	12-10	13-2	13-6	13-10	14-1
450.00	12-5	12-10	13-3	13-7	14-0	14-5	14-9	15-1	15-6	15-10
475.00	13-10	14-4	14-9	15-2	15-7	16-0	16-5	16-10	17-3	17-8
500.00	15-4	15-10	16-4	16-10	17-4	17-9	18-3	18-8	19-1	19-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>161 OF 362</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div style="color: orange; font-size: 2em;">X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH813.161
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 3000 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.573	32.29	1000	32.29	1000*
0	0	0	0	1.134	32.03	726	32.02	726
30	0	0	0	1.134	32.37	719	32.36	719
40	0	0	0	1.134	32.48	717	32.47	717
50	0	0	0	1.134	32.59	714	32.58	715
60	0	0	0	1.134	32.7	712	32.69	712
70	0	0	0	1.134	32.81	710	32.8	710
80	0	0	0	1.134	32.92	708	32.91	708
90	0	0	0	1.134	33.03	705	33.02	706
100	0	0	0	1.134	33.14	703	33.13	703
110	0	0	0	1.134	33.25	701	33.24	701
120	0	0	0	1.134	33.34	699	33.34	699
130	0	0	0	1.134	33.42	698	33.42	698
167	0	0	0	1.134	33.67	693	33.67	693
212	0	0	0	1.134	33.96	687	33.96	687

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>164 OF 362</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH813.164	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.573	51.24	1000	51.24	1000*
0	0	0	0	1.134	50.98	724	50.97	724
30	0	0	0	1.134	51.32	720	51.31	720
40	0	0	0	1.134	51.43	718	51.43	718
50	0	0	0	1.134	51.55	717	51.54	717
60	0	0	0	1.134	51.66	715	51.65	716
70	0	0	0	1.134	51.77	714	51.76	714
80	0	0	0	1.134	51.88	713	51.87	713
90	0	0	0	1.134	51.99	711	51.97	711
100	0	0	0	1.134	52.1	710	52.08	710
110	0	0	0	1.134	52.21	709	52.19	709
120	0	0	0	1.134	52.3	707	52.3	707
130	0	0	0	1.134	52.39	706	52.39	706
167	0	0	0	1.134	52.63	703	52.63	703
212	0	0	0	1.134	52.93	700	52.93	700
* Design Condition								

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>165 OF 362</p> </div>	Indicates Latest Revision	Completely Revised	<div style="border: 1px solid black; padding: 2px;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.165</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 1000 LBS</p> </div>					

Completely Revised

 New Page

OH813.165

* Design Condition

* Design Condition

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>172 OF 362</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH813.172
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.573	33.41	1498	33.37	1500*
0	0	0	0	1.134	33	1093	32.94	1095
30	0	0	0	1.134	33.5	1077	33.44	1079
40	0	0	0	1.134	33.67	1072	33.6	1074
50	0	0	0	1.134	33.83	1067	33.77	1069
60	0	0	0	1.134	34	1062	33.93	1064
70	0	0	0	1.134	34.16	1057	34.09	1059
80	0	0	0	1.134	34.32	1052	34.26	1054
90	0	0	0	1.134	34.49	1047	34.42	1049
100	0	0	0	1.134	34.65	1042	34.58	1045
110	0	0	0	1.134	34.81	1038	34.74	1040
120	0	0	0	1.134	34.97	1033	34.9	1035
130	0	0	0	1.134	35.13	1029	35.05	1031
167	0	0	0	1.134	35.61	1015	35.61	1015
212	0	0	0	1.134	36.04	1004	36.04	1004
* Design Condition								

* Design Condition

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<div style="text-align: center;"> <p>SHEET</p> <p>173 OF 362</p> </div>	Indicates Latest Revision	Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH813.173</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 1500 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-9	0-10	0-11	1-0	1-1	1-1	1-2	1-3	1-3
100.00	1-3	1-5	1-6	1-8	1-9	1-10	2-0	2-1	2-2	2-3
125.00	1-11	2-2	2-4	2-7	2-9	2-11	3-1	3-3	3-5	3-7
150.00	2-9	3-1	3-5	3-8	3-11	4-2	4-5	4-8	4-11	5-1
175.00	3-9	4-3	4-7	5-0	5-5	5-9	6-1	6-5	6-8	7-0
200.00	4-11	5-6	6-1	6-7	7-0	7-6	7-11	8-4	8-9	9-1

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-2	1-3	1-3
100.00	1-3	1-5	1-6	1-8	1-9	1-11	2-0	2-1	2-2	2-3
125.00	1-11	2-2	2-5	2-7	2-9	2-11	3-2	3-3	3-5	3-7
150.00	2-10	3-2	3-5	3-9	4-0	4-3	4-6	4-9	5-0	5-1
175.00	3-10	4-3	4-8	5-1	5-5	5-10	6-2	6-5	6-9	7-0
200.00	5-0	5-7	6-1	6-8	7-1	7-7	8-0	8-5	8-10	9-1

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>174 OF 362</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.174
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-4	1-4	1-4	1-5	1-5	1-6	1-6	1-7	1-7	1-7
125.00	2-0	2-1	2-2	2-2	2-3	2-4	2-4	2-5	2-6	2-6
150.00	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8
175.00	3-11	4-1	4-2	4-4	4-5	4-6	4-8	4-9	4-10	5-0
200.00	5-2	5-4	5-6	5-8	5-9	5-11	6-1	6-3	6-4	6-6
225.00	6-7	6-9	6-11	7-2	7-4	7-6	7-8	7-10	8-0	8-3
250.00	8-1	8-4	8-7	8-10	9-1	9-3	9-6	9-9	9-11	10-2

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-4	1-4	1-5	1-5	1-5	1-6	1-6	1-7	1-7	1-8
125.00	2-0	2-1	2-2	2-3	2-3	2-4	2-5	2-5	2-6	2-7
150.00	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8
175.00	4-0	4-1	4-3	4-4	4-6	4-7	4-8	4-9	4-11	5-0
200.00	5-2	5-4	5-6	5-8	5-10	6-0	6-1	6-3	6-5	6-6
225.00	6-7	6-10	7-0	7-2	7-5	7-7	7-9	7-11	8-1	8-3
250.00	8-2	8-5	8-8	8-11	9-1	9-4	9-7	9-9	10-0	10-2

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<div style="text-align: center;"> <p>SHEET</p> <p>175 OF 362</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.175</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 1500 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-3	5-4	5-4	5-5	5-5	5-6	5-6	5-7	5-7	5-7
225.00	6-8	6-9	6-9	6-10	6-10	6-11	7-0	7-0	7-1	7-1
250.00	8-3	8-4	8-4	8-5	8-6	8-7	8-7	8-8	8-9	8-10
275.00	10-0	10-1	10-1	10-2	10-3	10-4	10-5	10-6	10-7	10-8
300.00	11-10	11-11	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8
325.00	13-11	14-0	14-2	14-3	14-4	14-6	14-7	14-8	14-9	14-11
350.00	16-2	16-3	16-5	16-6	16-8	16-9	16-11	17-0	17-2	17-3
375.00	18-7	18-8	18-10	19-0	19-2	19-3	19-5	19-7	19-8	19-10
400.00	21-2	21-3	21-5	21-7	21-9	21-11	22-1	22-3	22-5	22-7
425.00	23-10	24-1	24-3	24-5	24-7	24-9	25-0	25-2	25-4	25-6
450.00	26-9	27-0	27-2	27-5	27-7	27-10	28-0	28-2	28-5	28-7
475.00	29-10	30-1	30-4	30-6	30-9	31-0	31-3	31-5	31-8	31-11
500.00	33-1	33-4	33-7	33-10	34-1	34-4	34-7	34-10	35-1	35-4

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-3	5-4	5-4	5-5	5-5	5-6	5-6	5-7	5-7	5-8
225.00	6-8	6-9	6-9	6-10	6-11	6-11	7-0	7-1	7-1	7-2
250.00	8-3	8-4	8-5	8-5	8-6	8-7	8-8	8-8	8-9	8-10
275.00	10-0	10-1	10-2	10-3	10-4	10-5	10-5	10-6	10-7	10-8
300.00	11-11	12-0	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-9
325.00	14-0	14-1	14-2	14-3	14-5	14-6	14-7	14-9	14-10	14-11
350.00	16-2	16-4	16-5	16-7	16-8	16-10	16-11	17-1	17-2	17-4
375.00	18-7	18-9	18-11	19-1	19-2	19-4	19-6	19-7	19-9	19-11
400.00	21-2	21-4	21-6	21-8	21-10	22-0	22-2	22-4	22-6	22-8
425.00	23-11	24-1	24-4	24-6	24-8	24-10	25-0	25-3	25-5	25-7
450.00	26-10	27-1	27-3	27-6	27-8	27-11	28-1	28-3	28-6	28-8
475.00	29-11	30-2	30-5	30-7	30-10	31-1	31-4	31-6	31-9	32-0
500.00	33-2	33-5	33-8	33-11	34-2	34-5	34-8	34-11	35-2	35-5

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	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS					

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>179 OF 362</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH813.179
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS									

Span = 300 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.573	9.01	1972	8.88	2000*
0	0	0	0	1.134	8.44	1516	8.28	1545
30	0	0	0	1.134	9.1	1407	8.94	1433
40	0	0	0	1.134	9.31	1376	9.15	1400
50	0	0	0	1.134	9.51	1347	9.35	1370
60	0	0	0	1.134	9.71	1319	9.55	1341
70	0	0	0	1.134	9.91	1293	9.75	1314
80	0	0	0	1.134	10.1	1268	9.94	1289
90	0	0	0	1.134	10.3	1245	10.13	1265
100	0	0	0	1.134	10.48	1223	10.32	1242
110	0	0	0	1.134	10.67	1202	10.51	1220
120	0	0	0	1.134	10.85	1182	10.69	1200
130	0	0	0	1.134	11.03	1163	10.87	1180
167	0	0	0	1.134	11.56	1110	11.5	1116
212	0	0	0	1.134	11.99	1071	11.99	1071


Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.573	15.98	1982	15.83	2000*
0	0	0	0	1.134	15.41	1480	15.23	1498
30	0	0	0	1.134	16.07	1420	15.89	1436
40	0	0	0	1.134	16.29	1402	16.1	1417
50	0	0	0	1.134	16.5	1384	16.32	1399
60	0	0	0	1.134	16.71	1367	16.53	1382
70	0	0	0	1.134	16.92	1350	16.73	1365
80	0	0	0	1.134	17.12	1334	16.94	1349
90	0	0	0	1.134	17.33	1319	17.14	1333
100	0	0	0	1.134	17.53	1304	17.34	1318
110	0	0	0	1.134	17.72	1290	17.54	1303
120	0	0	0	1.134	17.92	1276	17.73	1289
130	0	0	0	1.134	18.12	1262	17.93	1275
167	0	0	0	1.134	18.78	1218	18.63	1228
212	0	0	0	1.134	19.26	1188	19.26	1188

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		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.573	24.99	1987	24.83	2000*
0	0	0	0	1.134	24.41	1465	24.22	1477
30	0	0	0	1.134	25.08	1427	24.89	1438
40	0	0	0	1.134	25.3	1415	25.1	1426
50	0	0	0	1.134	25.51	1403	25.32	1414
60	0	0	0	1.134	25.73	1392	25.53	1402
70	0	0	0	1.134	25.94	1381	25.74	1391
80	0	0	0	1.134	26.15	1370	25.95	1380
90	0	0	0	1.134	26.36	1359	26.16	1369
100	0	0	0	1.134	26.57	1349	26.37	1359
110	0	0	0	1.134	26.78	1339	26.57	1349
120	0	0	0	1.134	26.98	1329	26.78	1339
130	0	0	0	1.134	27.19	1319	26.98	1329
167	0	0	0	1.134	27.93	1285	27.72	1294
212	0	0	0	1.134	28.46	1261	28.46	1261
* Design Condition								

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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<div style="text-align: center;"> <p>SHEET</p> <p>181 OF 362</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH813.181</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 2000 LBS</p> </div>				

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4
125.00	1-6	1-7	1-8	1-9	1-9	1-10	1-11	2-0	2-1	2-1
150.00	2-2	2-3	2-4	2-6	2-7	2-8	2-9	2-10	2-11	3-0
175.00	2-11	3-1	3-2	3-4	3-6	3-8	3-9	3-11	4-0	4-2
200.00	3-9	4-0	4-2	4-5	4-7	4-9	4-11	5-1	5-3	5-5
225.00	4-10	5-1	5-4	5-6	5-9	6-0	6-3	6-5	6-8	6-10
250.00	5-11	6-3	6-7	6-10	7-2	7-5	7-8	7-11	8-2	8-5

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-0	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-4	1-5
125.00	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-0	2-1	2-2
150.00	2-2	2-4	2-5	2-6	2-8	2-9	2-10	2-11	3-0	3-1
175.00	3-0	3-2	3-4	3-5	3-7	3-9	3-10	4-0	4-1	4-3
200.00	3-11	4-1	4-4	4-6	4-8	4-10	5-0	5-2	5-4	5-6
225.00	4-11	5-2	5-5	5-8	5-11	6-2	6-4	6-7	6-9	7-0
250.00	6-1	6-5	6-9	7-0	7-4	7-7	7-10	8-1	8-4	8-7

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<div>SHEET</div> <div>183 OF 362</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.183
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.573	3.29	2392	3.15	2500*
0	0	0	0	1.134	2.62	2162	2.45	2316
30	0	0	0	1.134	3.36	1688	3.17	1793
40	0	0	0	1.134	3.59	1582	3.39	1674
50	0	0	0	1.134	3.8	1493	3.61	1574
60	0	0	0	1.134	4.01	1416	3.82	1488
70	0	0	0	1.134	4.21	1349	4.02	1413
80	0	0	0	1.134	4.4	1290	4.21	1348
90	0	0	0	1.134	4.59	1238	4.4	1291
100	0	0	0	1.134	4.77	1192	4.58	1240
110	0	0	0	1.134	4.94	1150	4.76	1194
120	0	0	0	1.134	5.11	1112	4.93	1153
130	0	0	0	1.134	5.28	1078	5.1	1115
167	0	0	0	1.134	5.66	1005	5.65	1006
212	0	0	0	1.134	6.02	945	6.01	946

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>187 OF 362</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH813.187
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 188 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.188
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.573	20.1	2462	19.79	2500*
0	0	0	0	1.134	19.35	1842	18.99	1877
30	0	0	0	1.134	20.17	1768	19.81	1800
40	0	0	0	1.134	20.44	1745	20.08	1776
50	0	0	0	1.134	20.7	1723	20.34	1754
60	0	0	0	1.134	20.96	1702	20.6	1732
70	0	0	0	1.134	21.22	1682	20.86	1711
80	0	0	0	1.134	21.48	1662	21.11	1690
90	0	0	0	1.134	21.73	1643	21.36	1671
100	0	0	0	1.134	21.98	1625	21.61	1652
110	0	0	0	1.134	22.22	1607	21.86	1634
120	0	0	0	1.134	22.47	1590	22.1	1616
130	0	0	0	1.134	22.71	1573	22.35	1599
167	0	0	0	1.134	23.58	1516	23.22	1539
212	0	0	0	1.134	24.31	1471	24.24	1476

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>189 OF 362</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.189</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 2500 LBS</p> </div>					

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1
100.00	0-8	0-10	0-11	1-1	1-3	1-5	1-6	1-8	1-9	1-11
125.00	1-0	1-3	1-6	1-9	2-0	2-2	2-5	2-7	2-9	2-11
150.00	1-6	1-10	2-2	2-6	2-10	3-2	3-5	3-9	4-0	4-3
175.00	2-0	2-5	2-11	3-5	3-10	4-3	4-8	5-1	5-5	5-9
200.00	2-7	3-2	3-10	4-5	5-0	5-7	6-1	6-8	7-1	7-7

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1
100.00	0-8	0-10	1-0	1-2	1-4	1-6	1-7	1-9	1-10	1-11
125.00	1-1	1-4	1-7	1-10	2-1	2-3	2-6	2-8	2-10	3-0
150.00	1-6	1-11	2-3	2-7	3-0	3-3	3-7	3-10	4-2	4-5
175.00	2-1	2-7	3-1	3-7	4-0	4-6	4-11	5-3	5-7	6-0
200.00	2-8	3-4	4-0	4-8	5-3	5-10	6-4	6-10	7-4	7-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 190 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.190
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span:	200.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-2
125.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-9	1-10
150.00	1-8	1-9	1-11	2-0	2-2	2-3	2-4	2-6	2-7	2-8
175.00	2-3	2-5	2-7	2-9	2-11	3-1	3-3	3-4	3-6	3-8
200.00	2-11	3-2	3-5	3-7	3-10	4-0	4-3	4-5	4-7	4-9
225.00	3-9	4-0	4-4	4-7	4-10	5-1	5-4	5-7	5-10	6-0
250.00	4-7	4-11	5-4	5-8	6-0	6-3	6-7	6-11	7-2	7-5

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-2	1-3
125.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-10	1-11
150.00	1-9	1-11	2-0	2-2	2-3	2-4	2-6	2-7	2-8	2-9
175.00	2-5	2-7	2-9	2-11	3-1	3-3	3-4	3-6	3-8	3-9
200.00	3-2	3-4	3-7	3-10	4-0	4-3	4-5	4-7	4-9	4-11
225.00	3-11	4-3	4-6	4-10	5-1	5-4	5-7	5-10	6-0	6-3
250.00	4-11	5-3	5-7	5-11	6-3	6-7	6-11	7-2	7-5	7-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 191 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.191
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span: 300.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-9	1-9	1-10	1-11	2-0	2-0	2-1	2-2	2-2	2-3
175.00	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-1
200.00	3-1	3-2	3-3	3-5	3-6	3-7	3-8	3-9	3-11	4-0
225.00	3-10	4-0	4-2	4-3	4-5	4-7	4-8	4-10	4-11	5-0
250.00	4-9	4-11	5-1	5-3	5-5	5-7	5-9	5-11	6-1	6-3
275.00	5-9	6-0	6-2	6-5	6-7	6-9	7-0	7-2	7-4	7-6
300.00	6-10	7-1	7-4	7-7	7-10	8-1	8-4	8-6	8-9	8-11
325.00	8-1	8-4	8-8	8-11	9-3	9-6	9-9	10-0	10-3	10-6
350.00	9-4	9-8	10-0	10-4	10-8	11-0	11-4	11-7	11-11	12-2
375.00	10-9	11-1	11-6	11-11	12-3	12-8	13-0	13-4	13-8	14-0

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-9	1-10	1-11	2-0	2-0	2-1	2-2	2-2	2-3	2-4
175.00	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-2
200.00	3-2	3-3	3-5	3-6	3-7	3-9	3-10	3-11	4-0	4-1
225.00	4-0	4-2	4-4	4-5	4-7	4-8	4-10	4-11	5-1	5-2
250.00	5-0	5-2	5-4	5-6	5-8	5-10	6-0	6-1	6-3	6-5
275.00	6-0	6-3	6-5	6-8	6-10	7-0	7-3	7-5	7-7	7-9
300.00	7-2	7-5	7-8	7-11	8-2	8-4	8-7	8-10	9-0	9-3
325.00	8-5	8-8	9-0	9-3	9-6	9-10	10-1	10-4	10-7	10-10
350.00	9-9	10-1	10-5	10-9	11-1	11-5	11-8	12-0	12-3	12-7
375.00	11-2	11-7	11-11	12-4	12-8	13-1	13-5	13-9	14-1	14-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>192 OF 362</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div style="color: orange; font-weight: bold; font-size: 2em;">X</div> <div>New Page</div> </div> <div> <div>Information Removed</div> </div>									OH813.192
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-1	3-2	3-3	3-3	3-4	3-5	3-6	3-6	3-7	3-8
225.00	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-7
250.00	4-10	4-11	5-0	5-2	5-3	5-4	5-5	5-6	5-7	5-9
275.00	5-10	6-0	6-1	6-3	6-4	6-5	6-7	6-8	6-10	6-11
300.00	7-0	7-1	7-3	7-5	7-7	7-8	7-10	8-0	8-1	8-3
325.00	8-2	8-4	8-6	8-8	8-10	9-0	9-2	9-4	9-6	9-8
350.00	9-6	9-8	9-11	10-1	10-3	10-6	10-8	10-10	11-0	11-2
375.00	10-11	11-1	11-4	11-7	11-10	12-0	12-3	12-5	12-8	12-10
400.00	12-5	12-8	12-11	13-2	13-5	13-8	13-11	14-2	14-5	14-8
425.00	14-0	14-3	14-7	14-11	15-2	15-5	15-9	16-0	16-3	16-6
450.00	15-8	16-0	16-4	16-8	17-0	17-4	17-7	17-11	18-3	18-6
475.00	17-6	17-10	18-3	18-7	18-11	19-4	19-8	20-0	20-4	20-8
500.00	19-4	19-9	20-2	20-7	21-0	21-5	21-9	22-2	22-6	22-11

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-2	3-3	3-4	3-4	3-5	3-6	3-7	3-7	3-8	3-9
225.00	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9
250.00	5-0	5-1	5-2	5-3	5-4	5-6	5-7	5-8	5-9	5-10
275.00	6-0	6-2	6-3	6-5	6-6	6-7	6-9	6-10	6-11	7-1
300.00	7-2	7-4	7-5	7-7	7-9	7-10	8-0	8-2	8-3	8-5
325.00	8-5	8-7	8-9	8-11	9-1	9-3	9-5	9-7	9-9	9-10
350.00	9-9	9-11	10-2	10-4	10-6	10-9	10-11	11-1	11-3	11-5
375.00	11-2	11-5	11-8	11-10	12-1	12-4	12-6	12-9	12-11	13-2
400.00	12-9	13-0	13-3	13-6	13-9	14-0	14-3	14-6	14-9	15-0
425.00	14-4	14-8	15-0	15-3	15-6	15-10	16-1	16-4	16-8	16-11
450.00	16-1	16-5	16-9	17-1	17-5	17-9	18-1	18-4	18-8	18-11
475.00	17-11	18-4	18-8	19-1	19-5	19-9	20-1	20-5	20-9	21-1
500.00	19-11	20-4	20-9	21-1	21-6	21-11	22-3	22-8	23-0	23-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>193 OF 362</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div style="color: orange; font-size: 2em;">X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH813.193
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-11	4-11	5-0	5-1	5-2	5-2	5-3	5-4	5-5	5-5
275.00	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-5	6-6	6-7
300.00	7-0	7-1	7-3	7-4	7-5	7-6	7-7	7-8	7-9	7-10
325.00	8-3	8-4	8-6	8-7	8-8	8-10	8-11	9-0	9-1	9-3
350.00	9-7	9-8	9-10	9-11	10-1	10-3	10-4	10-5	10-7	10-8
375.00	11-0	11-2	11-3	11-5	11-7	11-9	11-10	12-0	12-2	12-3
400.00	12-6	12-8	12-10	13-0	13-2	13-4	13-6	13-8	13-10	14-0
425.00	14-1	14-4	14-6	14-8	14-10	15-1	15-3	15-5	15-7	15-9
450.00	15-10	16-0	16-3	16-6	16-8	16-11	17-1	17-4	17-6	17-8
475.00	17-8	17-11	18-1	18-4	18-7	18-10	19-1	19-3	19-6	19-9
500.00	19-6	19-10	20-1	20-4	20-7	20-10	21-1	21-4	21-7	21-10
525.00	21-7	21-10	22-2	22-5	22-9	23-0	23-3	23-7	23-10	24-1
550.00	23-8	24-0	24-4	24-7	24-11	25-3	25-7	25-10	26-2	26-6
575.00	25-10	26-3	26-7	26-11	27-3	27-7	27-11	28-3	28-7	28-11
600.00	28-2	28-7	28-11	29-4	29-8	30-1	30-5	30-10	31-2	31-6
625.00	30-7	31-0	31-5	31-10	32-3	32-8	33-0	33-5	33-10	34-2

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-0	5-0	5-1	5-2	5-3	5-4	5-4	5-5	5-6	5-7
275.00	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-9
300.00	7-2	7-3	7-4	7-5	7-6	7-8	7-9	7-10	7-11	8-0
325.00	8-5	8-6	8-7	8-9	8-10	8-11	9-1	9-2	9-3	9-5
350.00	9-9	9-10	10-0	10-2	10-3	10-5	10-6	10-8	10-9	10-10
375.00	11-2	11-4	11-6	11-8	11-9	11-11	12-1	12-2	12-4	12-6
400.00	12-9	12-11	13-1	13-3	13-5	13-7	13-9	13-11	14-1	14-3
425.00	14-4	14-7	14-9	14-11	15-2	15-4	15-6	15-8	15-10	16-1
450.00	16-1	16-4	16-7	16-9	17-0	17-2	17-5	17-7	17-10	18-0
475.00	18-0	18-2	18-5	18-8	18-11	19-2	19-5	19-7	19-10	20-1
500.00	19-11	20-2	20-5	20-8	21-0	21-3	21-6	21-9	22-0	22-3
525.00	21-11	22-3	22-6	22-10	23-1	23-5	23-8	24-0	24-3	24-6
550.00	24-1	24-5	24-9	25-1	25-5	25-8	26-0	26-4	26-7	26-11
575.00	26-4	26-8	27-1	27-5	27-9	28-1	28-5	28-9	29-1	29-5
600.00	28-8	29-1	29-6	29-10	30-3	30-7	30-11	31-4	31-8	32-0
625.00	31-2	31-7	32-0	32-5	32-10	33-2	33-7	34-0	34-5	34-9

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>194 OF 362</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.194
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.573	16.93	2917	16.46	3000*
0	0	0	0	1.134	16.01	2222	15.45	2302
30	0	0	0	1.134	16.98	2097	16.42	2167
40	0	0	0	1.134	17.29	2060	16.73	2127
50	0	0	0	1.134	17.59	2024	17.04	2089
60	0	0	0	1.134	17.89	1991	17.34	2053
70	0	0	0	1.134	18.19	1958	17.64	2019
80	0	0	0	1.134	18.48	1928	17.94	1986
90	0	0	0	1.134	18.77	1898	18.23	1955
100	0	0	0	1.134	19.06	1870	18.51	1925
110	0	0	0	1.134	19.34	1844	18.8	1896
120	0	0	0	1.134	19.61	1818	19.07	1869
130	0	0	0	1.134	19.89	1793	19.35	1842
167	0	0	0	1.134	20.87	1710	20.34	1754
212	0	0	0	1.134	21.76	1641	21.49	1662

* Design Condition

* Design Condition

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<div style="text-align: center;"> <p>SHEET</p> <p>197 OF 362</p> </div>	Indicates Latest Revision	Completely Revised	<input checked="" type="checkbox"/> New Page	Information Removed	<div style="text-align: center;"> <p>OH813.197</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 3000 LBS</p> </div>				

Completely Revised



Information Removed

OH813.197

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0
100.00	0-6	0-8	0-9	0-11	1-1	1-3	1-5	1-6	1-8	1-9
125.00	0-10	1-0	1-3	1-6	1-8	1-11	2-2	2-4	2-7	2-9
150.00	1-2	1-5	1-9	2-1	2-5	2-10	3-1	3-5	3-8	4-0
175.00	1-7	1-11	2-5	2-10	3-4	3-10	4-3	4-8	5-0	5-5
200.00	2-1	2-7	3-2	3-9	4-4	5-0	5-6	6-1	6-7	7-1

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-0
100.00	0-7	0-8	0-10	1-0	1-2	1-4	1-6	1-7	1-9	1-10
125.00	0-10	1-1	1-4	1-7	1-10	2-1	2-4	2-6	2-8	2-11
150.00	1-3	1-7	1-11	2-4	2-8	3-0	3-4	3-7	3-11	4-2
175.00	1-8	2-1	2-7	3-2	3-8	4-1	4-6	4-11	5-4	5-8
200.00	2-2	2-9	3-5	4-1	4-9	5-4	5-11	6-5	6-11	7-5

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 198 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.198
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 3000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1
125.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
150.00	1-4	1-6	1-7	1-9	1-10	2-0	2-1	2-3	2-4	2-5
175.00	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4
200.00	2-4	2-7	2-10	3-1	3-4	3-6	3-9	3-11	4-2	4-4
225.00	3-0	3-3	3-7	3-11	4-2	4-5	4-9	5-0	5-3	5-6
250.00	3-8	4-1	4-5	4-10	5-2	5-6	5-10	6-2	6-6	6-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-2
125.00	1-0	1-1	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-9
150.00	1-6	1-7	1-9	1-11	2-0	2-2	2-3	2-4	2-6	2-7
175.00	2-0	2-2	2-5	2-7	2-9	2-11	3-1	3-3	3-4	3-6
200.00	2-7	2-10	3-1	3-4	3-7	3-9	4-0	4-2	4-5	4-7
225.00	3-4	3-7	3-11	4-3	4-6	4-10	5-1	5-4	5-7	5-10
250.00	4-1	4-6	4-10	5-3	5-7	5-11	6-3	6-7	6-10	7-2

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<div>SHEET</div> <div>199 OF 362</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.199
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 3000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-1	3-2
225.00	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0
250.00	4-0	4-1	4-3	4-4	4-5	4-7	4-8	4-9	4-10	5-0
275.00	4-10	4-11	5-1	5-3	5-4	5-6	5-8	5-9	5-11	6-0
300.00	5-9	5-11	6-1	6-3	6-5	6-7	6-9	6-10	7-0	7-2
325.00	6-9	6-11	7-1	7-4	7-6	7-8	7-10	8-1	8-3	8-5
350.00	7-9	8-0	8-3	8-6	8-8	8-11	9-2	9-4	9-7	9-9
375.00	8-11	9-3	9-6	9-9	10-0	10-3	10-6	10-9	11-0	11-2
400.00	10-2	10-6	10-9	11-1	11-4	11-8	11-11	12-2	12-6	12-9
425.00	11-6	11-10	12-2	12-6	12-10	13-2	13-6	13-9	14-1	14-5
450.00	12-11	13-3	13-8	14-0	14-5	14-9	15-1	15-5	15-10	16-2
475.00	14-4	14-9	15-3	15-8	16-0	16-5	16-10	17-3	17-7	18-0
500.00	15-11	16-5	16-10	17-4	17-9	18-3	18-8	19-1	19-6	19-11

Stringing Sag Table Using Final Sag							Ruling Span:	400.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-8	2-9	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-4
225.00	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2
250.00	4-2	4-3	4-5	4-6	4-8	4-9	4-10	4-11	5-1	5-2
275.00	5-1	5-2	5-4	5-6	5-7	5-9	5-10	6-0	6-1	6-3
300.00	6-0	6-2	6-4	6-6	6-8	6-10	7-0	7-2	7-3	7-5
325.00	7-1	7-3	7-5	7-8	7-10	8-0	8-2	8-4	8-7	8-9
350.00	8-2	8-5	8-8	8-10	9-1	9-4	9-6	9-9	9-11	10-1
375.00	9-5	9-8	9-11	10-2	10-5	10-8	10-11	11-2	11-5	11-7
400.00	10-8	11-0	11-3	11-7	11-10	12-2	12-5	12-8	12-11	13-3
425.00	12-1	12-5	12-9	13-1	13-5	13-9	14-0	14-4	14-8	14-11
450.00	13-6	13-11	14-3	14-8	15-0	15-4	15-9	16-1	16-5	16-9
475.00	15-1	15-6	15-11	16-4	16-9	17-2	17-6	17-11	18-3	18-8
500.00	16-8	17-2	17-8	18-1	18-7	19-0	19-5	19-10	20-3	20-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>201 OF 362</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH813.201
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 3000 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 204 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.204
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	2.186	74.39	1000	74.39	1000*
20	0	0	0	1.134	74.11	520	74.1	521
30	0	0	0	1.134	74.19	520	74.18	520
40	0	0	0	1.134	74.27	520	74.26	520
50	0	0	0	1.134	74.35	519	74.34	519
60	0	0	0	1.134	74.43	519	74.42	519
70	0	0	0	1.134	74.51	518	74.5	518
80	0	0	0	1.134	74.59	518	74.58	518
90	0	0	0	1.134	74.67	517	74.66	517
100	0	0	0	1.134	74.74	517	74.74	517
110	0	0	0	1.134	74.79	517	74.79	517
120	0	0	0	1.134	74.84	516	74.84	516
130	0	0	0	1.134	74.89	516	74.89	516
167	0	0	0	1.134	75.07	515	75.07	515
212	0	0	0	1.134	75.28	514	75.28	514
* Design Condition								

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>205 OF 362</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.205</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 1000 LBS</p> </div>					

Completely Revised

	X
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Information Removed

OH813.205

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1000 LBS

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-2	6-3	6-3	6-3	6-3	6-4	6-4	6-4	6-4	6-5
175.00	8-5	8-6	8-6	8-6	8-7	8-7	8-7	8-8	8-8	8-8
200.00	11-1	11-1	11-2	11-2	11-2	11-3	11-3	11-4	11-4	11-4
225.00	14-0	14-1	14-1	14-2	14-2	14-3	14-3	14-4	14-4	14-5
250.00	17-4	17-4	17-5	17-6	17-6	17-7	17-8	17-8	17-9	17-9
275.00	21-0	21-1	21-1	21-2	21-3	21-4	21-5	21-5	21-6	21-7
300.00	25-0	25-1	25-2	25-3	25-4	25-5	25-6	25-7	25-8	25-8
325.00	29-5	29-6	29-7	29-8	29-9	29-10	29-11	30-1	30-2	30-2
350.00	34-2	34-3	34-4	34-6	34-7	34-8	34-10	34-11	35-0	35-1
375.00	39-3	39-5	39-6	39-8	39-9	39-11	40-0	40-2	40-3	40-4

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-3	6-3	6-3	6-3	6-3	6-4	6-4	6-4	6-4	6-5
175.00	8-5	8-6	8-6	8-6	8-7	8-7	8-7	8-8	8-8	8-8
200.00	11-1	11-1	11-2	11-2	11-2	11-3	11-3	11-4	11-4	11-4
225.00	14-0	14-1	14-1	14-2	14-2	14-3	14-3	14-4	14-4	14-5
250.00	17-4	17-4	17-5	17-6	17-6	17-7	17-8	17-8	17-9	17-9
275.00	21-0	21-1	21-1	21-2	21-3	21-4	21-5	21-5	21-6	21-7
300.00	25-0	25-1	25-2	25-3	25-4	25-5	25-6	25-7	25-8	25-8
325.00	29-5	29-6	29-7	29-8	29-9	29-10	30-0	30-1	30-2	30-2
350.00	34-2	34-3	34-4	34-6	34-7	34-8	34-10	34-11	35-0	35-1
375.00	39-3	39-5	39-6	39-8	39-9	39-11	40-0	40-2	40-3	40-4

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SHEET 208 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.208
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-4	11-4	11-4	11-4	11-4	11-5	11-5	11-5	11-5	11-6
225.00	14-4	14-4	14-4	14-5	14-5	14-5	14-5	14-6	14-6	14-6
250.00	17-8	17-9	17-9	17-9	17-10	17-10	17-10	17-11	17-11	17-11
275.00	21-5	21-6	21-6	21-7	21-7	21-7	21-8	21-8	21-9	21-9
300.00	25-7	25-7	25-8	25-8	25-9	25-9	25-10	25-10	25-11	25-11
325.00	30-0	30-1	30-2	30-2	30-3	30-3	30-4	30-5	30-5	30-6
350.00	34-11	34-11	35-0	35-1	35-2	35-2	35-3	35-4	35-4	35-5
375.00	40-2	40-2	40-3	40-4	40-5	40-6	40-7	40-7	40-8	40-9
400.00	45-9	45-10	45-11	46-0	46-1	46-2	46-3	46-4	46-5	46-5
425.00	51-9	51-10	51-11	52-0	52-1	52-3	52-4	52-5	52-6	52-6
450.00	58-2	58-3	58-4	58-6	58-7	58-8	58-9	58-11	59-0	59-1
475.00	65-0	65-1	65-2	65-4	65-5	65-6	65-8	65-9	65-11	65-11
500.00	72-2	72-4	72-5	72-7	72-8	72-10	72-11	73-1	73-2	73-3

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SHEET 209 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.209
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS									

* Design Condition

* Design Condition

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<div>SHEET</div> <div>211 OF 362</div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	OH813.211
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS						

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[illegible]

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	2.186	47.16	1500	47.16	1500*
20	0	0	0	1.134	46.71	785	46.69	786
30	0	0	0	1.134	46.83	783	46.81	784
40	0	0	0	1.134	46.95	782	46.93	782
50	0	0	0	1.134	47.07	780	47.05	780
60	0	0	0	1.134	47.19	778	47.17	778
70	0	0	0	1.134	47.31	776	47.29	776
80	0	0	0	1.134	47.43	774	47.41	774
90	0	0	0	1.134	47.55	772	47.53	773
100	0	0	0	1.134	47.67	771	47.64	771
110	0	0	0	1.134	47.79	769	47.76	769
120	0	0	0	1.134	47.91	767	47.88	767
130	0	0	0	1.134	48	766	48	766
167	0	0	0	1.134	48.27	762	48.27	762
212	0	0	0	1.134	48.6	757	48.6	757

* Design Condition

* Design Condition

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SHEET
213 OF 362

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Completely Revised



New Page

Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.213

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4
100.00	1-4	1-6	1-7	1-9	1-10	1-11	2-1	2-2	2-3	2-4
125.00	2-1	2-3	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8
150.00	3-0	3-4	3-7	3-10	4-1	4-4	4-7	4-10	5-1	5-3
175.00	4-1	4-6	4-11	5-3	5-7	5-11	6-3	6-7	6-11	7-2
200.00	5-4	5-10	6-5	6-10	7-4	7-9	8-2	8-7	9-0	9-4

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-3	1-4
100.00	1-4	1-6	1-7	1-9	1-10	2-0	2-1	2-2	2-3	2-4
125.00	2-1	2-4	2-6	2-9	2-11	3-1	3-3	3-5	3-6	3-8
150.00	3-0	3-4	3-8	3-11	4-2	4-5	4-8	4-11	5-1	5-3
175.00	4-1	4-6	4-11	5-4	5-8	6-0	6-4	6-8	6-11	7-2
200.00	5-4	5-11	6-5	6-11	7-5	7-10	8-3	8-8	9-1	9-4

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SHEET 214 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.214
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-9	1-9	1-9	1-10	1-10	1-10	1-11	1-11	1-11	2-0
125.00	2-8	2-9	2-9	2-10	2-10	2-11	2-11	3-0	3-0	3-1
150.00	3-10	3-11	4-0	4-1	4-1	4-2	4-3	4-4	4-5	4-5
175.00	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-11	6-0	6-1
200.00	6-10	7-0	7-1	7-3	7-4	7-5	7-7	7-8	7-9	7-11
225.00	8-8	8-10	9-0	9-2	9-3	9-5	9-7	9-9	9-10	10-0
250.00	10-8	10-11	11-1	11-3	11-6	11-8	11-10	12-0	12-2	12-4

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-9	1-9	1-9	1-10	1-10	1-10	1-11	1-11	1-11	2-0
125.00	2-8	2-9	2-9	2-10	2-10	2-11	3-0	3-0	3-1	3-1
150.00	3-10	3-11	4-0	4-1	4-2	4-2	4-3	4-4	4-5	4-5
175.00	5-3	5-4	5-5	5-6	5-8	5-9	5-10	5-11	6-0	6-1
200.00	6-10	7-0	7-1	7-3	7-4	7-6	7-7	7-8	7-10	7-11
225.00	8-8	8-10	9-0	9-2	9-4	9-6	9-7	9-9	9-11	10-0
250.00	10-9	10-11	11-1	11-4	11-6	11-8	11-10	12-1	12-3	12-5

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<div style="text-align: center;"> <p>SHEET</p> <p>215 OF 362</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.215</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 1500 LBS</p> </div>						

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-0	4-1	4-1	4-1	4-2	4-2	4-2	4-3	4-3	4-3
175.00	5-6	5-6	5-7	5-7	5-8	5-8	5-9	5-9	5-10	5-10
200.00	7-2	7-2	7-3	7-4	7-4	7-5	7-6	7-6	7-7	7-7
225.00	9-1	9-1	9-2	9-3	9-4	9-5	9-5	9-6	9-7	9-8
250.00	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11
275.00	13-6	13-8	13-9	13-10	13-11	14-0	14-2	14-3	14-4	14-5
300.00	16-1	16-3	16-4	16-6	16-7	16-9	16-10	16-11	17-1	17-2
325.00	18-11	19-1	19-3	19-4	19-6	19-8	19-9	19-11	20-1	20-2
350.00	22-0	22-2	22-4	22-6	22-8	22-10	22-11	23-1	23-3	23-5
375.00	25-3	25-5	25-7	25-10	26-0	26-2	26-4	26-7	26-9	26-11

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-0	4-1	4-1	4-1	4-2	4-2	4-2	4-3	4-3	4-3
175.00	5-6	5-6	5-7	5-7	5-8	5-8	5-9	5-9	5-10	5-10
200.00	7-2	7-3	7-3	7-4	7-4	7-5	7-6	7-6	7-7	7-8
225.00	9-1	9-2	9-2	9-3	9-4	9-5	9-6	9-6	9-7	9-8
250.00	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11
275.00	13-7	13-8	13-9	13-10	14-0	14-1	14-2	14-3	14-4	14-5
300.00	16-2	16-3	16-5	16-6	16-7	16-9	16-10	17-0	17-1	17-3
325.00	18-11	19-1	19-3	19-5	19-6	19-8	19-10	19-11	20-1	20-3
350.00	22-0	22-2	22-4	22-6	22-8	22-10	23-0	23-2	23-4	23-6
375.00	25-3	25-6	25-8	25-10	26-0	26-3	26-5	26-7	26-9	27-0

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SHEET 216 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.216
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS					

Span = 200 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	2.186	5.5	1994	5.48	2000*
20	0	0	0	1.134	4.84	1175	4.79	1187
30	0	0	0	1.134	5.01	1135	4.96	1147
40	0	0	0	1.134	5.18	1098	5.12	1110
50	0	0	0	1.134	5.34	1065	5.28	1076
60	0	0	0	1.134	5.5	1035	5.44	1045
70	0	0	0	1.134	5.65	1007	5.59	1017
80	0	0	0	1.134	5.8	981	5.74	990
90	0	0	0	1.134	5.95	957	5.89	966
100	0	0	0	1.134	6.09	934	6.03	943
110	0	0	0	1.134	6.23	913	6.17	922
120	0	0	0	1.134	6.37	894	6.31	902
130	0	0	0	1.134	6.5	875	6.44	884
167	0	0	0	1.134	6.8	838	6.8	838
212	0	0	0	1.134	7.12	800	7.12	800
* Design Condition								

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 219 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.219
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS									

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<div>SHEET</div> <div>220 OF 362</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH813.220
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS									


Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	2.186	34.83	1999	34.81	2000*
20	0	0	0	1.134	34.18	1056	34.13	1058
30	0	0	0	1.134	34.35	1051	34.29	1053
40	0	0	0	1.134	34.51	1046	34.45	1048
50	0	0	0	1.134	34.67	1042	34.61	1043
60	0	0	0	1.134	34.83	1037	34.77	1039
70	0	0	0	1.134	34.99	1033	34.93	1034
80	0	0	0	1.134	35.15	1028	35.09	1030
90	0	0	0	1.134	35.31	1024	35.25	1025
100	0	0	0	1.134	35.47	1019	35.4	1021
110	0	0	0	1.134	35.62	1015	35.56	1017
120	0	0	0	1.134	35.78	1011	35.72	1012
130	0	0	0	1.134	35.94	1007	35.87	1008
167	0	0	0	1.134	36.4	994	36.4	994
212	0	0	0	1.134	36.82	983	36.82	983

* Design Condition

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<div style="text-align: center;"> <p>SHEET</p> <p>221 OF 362</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH813.221</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 2000 LBS</p> </div>				

Completely Revised



Information Removed

OH813.221

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 2000 LBS

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-7
125.00	1-10	1-11	2-0	2-1	2-1	2-2	2-3	2-4	2-4	2-5
150.00	2-8	2-9	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6
175.00	3-8	3-10	3-11	4-1	4-2	4-3	4-5	4-6	4-7	4-9
200.00	4-9	4-11	5-1	5-3	5-5	5-7	5-9	5-11	6-0	6-2
225.00	6-1	6-3	6-6	6-8	6-11	7-1	7-3	7-5	7-8	7-10
250.00	7-6	7-9	8-0	8-3	8-6	8-9	9-0	9-3	9-5	9-8

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-3	1-3	1-4	1-4	1-4	1-5	1-5	1-6	1-6	1-7
125.00	1-11	1-11	2-0	2-1	2-2	2-2	2-3	2-4	2-5	2-5
150.00	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6
175.00	3-8	3-10	4-0	4-1	4-2	4-4	4-5	4-7	4-8	4-9
200.00	4-10	5-0	5-2	5-4	5-6	5-8	5-10	5-11	6-1	6-3
225.00	6-1	6-4	6-7	6-9	6-11	7-2	7-4	7-6	7-9	7-11
250.00	7-7	7-10	8-1	8-4	8-7	8-10	9-1	9-4	9-6	9-9

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SHEET 223 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.223
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-11	3-0	3-0	3-0	3-1	3-1	3-2	3-2	3-3	3-3
175.00	4-0	4-0	4-1	4-2	4-2	4-3	4-4	4-4	4-5	4-5
200.00	5-2	5-3	5-4	5-5	5-6	5-7	5-7	5-8	5-9	5-10
225.00	6-7	6-8	6-9	6-10	6-11	7-0	7-1	7-2	7-3	7-4
250.00	8-1	8-3	8-4	8-5	8-7	8-8	8-9	8-11	9-0	9-1
275.00	9-10	10-0	10-1	10-3	10-4	10-6	10-8	10-9	10-11	11-0
300.00	11-8	11-10	12-0	12-2	12-4	12-6	12-8	12-10	12-11	13-1
325.00	13-9	13-11	14-1	14-4	14-6	14-8	14-10	15-0	15-3	15-5
350.00	15-11	16-2	16-4	16-7	16-10	17-0	17-3	17-5	17-8	17-10
375.00	18-3	18-7	18-10	19-1	19-4	19-7	19-10	20-0	20-3	20-6

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-11	3-0	3-0	3-1	3-1	3-2	3-2	3-3	3-3	3-3
175.00	4-0	4-1	4-1	4-2	4-3	4-3	4-4	4-4	4-5	4-6
200.00	5-3	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-9	5-10
225.00	6-7	6-8	6-9	6-11	7-0	7-1	7-2	7-3	7-4	7-5
250.00	8-2	8-3	8-5	8-6	8-7	8-9	8-10	8-11	9-0	9-2
275.00	9-10	10-0	10-2	10-3	10-5	10-7	10-8	10-10	10-11	11-1
300.00	11-9	11-11	12-1	12-3	12-5	12-7	12-9	12-10	13-0	13-2
325.00	13-9	14-0	14-2	14-4	14-7	14-9	14-11	15-1	15-3	15-6
350.00	16-0	16-3	16-5	16-8	16-11	17-1	17-4	17-6	17-9	17-11
375.00	18-4	18-8	18-11	19-2	19-5	19-8	19-11	20-2	20-4	20-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 224 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.224
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-4	5-5	5-5	5-6	5-6	5-7	5-7	5-7	5-8	5-8
225.00	6-9	6-10	6-10	6-11	7-0	7-0	7-1	7-1	7-2	7-3
250.00	8-4	8-5	8-6	8-7	8-7	8-8	8-9	8-9	8-10	8-11
275.00	10-1	10-2	10-3	10-4	10-5	10-6	10-7	10-8	10-9	10-9
300.00	12-0	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10
325.00	14-2	14-3	14-4	14-5	14-7	14-8	14-9	14-10	15-0	15-1
350.00	16-5	16-6	16-8	16-9	16-11	17-0	17-2	17-3	17-4	17-6
375.00	18-10	19-0	19-1	19-3	19-5	19-6	19-8	19-10	19-11	20-1
400.00	21-5	21-7	21-9	21-11	22-1	22-3	22-5	22-7	22-9	22-10
425.00	24-3	24-5	24-7	24-9	24-11	25-1	25-4	25-6	25-8	25-10
450.00	27-2	27-4	27-7	27-9	28-0	28-2	28-5	28-7	28-9	29-0
475.00	30-3	30-6	30-9	31-0	31-2	31-5	31-8	31-10	32-1	32-4
500.00	33-7	33-10	34-1	34-4	34-7	34-10	35-1	35-4	35-7	35-10

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-4	5-5	5-5	5-6	5-6	5-7	5-7	5-8	5-8	5-9
225.00	6-9	6-10	6-11	6-11	7-0	7-0	7-1	7-2	7-2	7-3
250.00	8-5	8-5	8-6	8-7	8-8	8-8	8-9	8-10	8-10	8-11
275.00	10-2	10-3	10-4	10-4	10-5	10-6	10-7	10-8	10-9	10-10
300.00	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10
325.00	14-2	14-3	14-5	14-6	14-7	14-8	14-10	14-11	15-0	15-1
350.00	16-5	16-7	16-8	16-10	16-11	17-1	17-2	17-4	17-5	17-6
375.00	18-11	19-0	19-2	19-4	19-5	19-7	19-9	19-10	20-0	20-2
400.00	21-6	21-8	21-10	22-0	22-2	22-4	22-6	22-7	22-9	22-11
425.00	24-3	24-6	24-8	24-10	25-0	25-2	25-4	25-7	25-9	25-11
450.00	27-3	27-5	27-8	27-10	28-1	28-3	28-5	28-8	28-10	29-1
475.00	30-4	30-7	30-10	31-1	31-3	31-6	31-9	31-11	32-2	32-5
500.00	33-8	33-11	34-2	34-5	34-8	34-11	35-2	35-5	35-8	35-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>225 OF 362</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH813.225
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-6	8-6	8-7	8-7	8-8	8-8	8-9	8-9	8-10	8-10
275.00	10-3	10-4	10-5	10-5	10-6	10-6	10-7	10-7	10-8	10-8
300.00	12-3	12-4	12-4	12-5	12-6	12-6	12-7	12-8	12-8	12-9
325.00	14-4	14-5	14-6	14-7	14-8	14-8	14-9	14-10	14-11	15-0
350.00	16-8	16-9	16-10	16-11	17-0	17-1	17-2	17-3	17-3	17-4
375.00	19-2	19-3	19-4	19-5	19-6	19-7	19-8	19-9	19-10	19-11
400.00	21-10	21-11	22-0	22-1	22-2	22-4	22-5	22-6	22-7	22-8
425.00	24-7	24-9	24-10	25-0	25-1	25-2	25-4	25-5	25-6	25-8
450.00	27-7	27-9	27-11	28-0	28-2	28-3	28-5	28-6	28-8	28-9
475.00	30-9	30-11	31-1	31-3	31-4	31-6	31-8	31-9	31-11	32-1
500.00	34-2	34-4	34-5	34-7	34-9	34-11	35-1	35-3	35-5	35-7
525.00	37-8	37-10	38-0	38-2	38-4	38-6	38-9	38-11	39-1	39-3
550.00	41-4	41-7	41-9	41-11	42-2	42-4	42-6	42-9	42-11	43-1
575.00	45-3	45-5	45-8	45-10	46-1	46-4	46-6	46-9	46-11	47-2
600.00	49-3	49-6	49-9	50-0	50-3	50-5	50-8	50-11	51-2	51-4
625.00	53-6	53-9	54-0	54-3	54-6	54-9	55-0	55-3	55-6	55-9

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<div style="text-align: center;"> <p>SHEET</p> <p>226 OF 362</p> </div>	Indicates Latest Revision		Completely Revised	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.226</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 2000 LBS</p> </div>					

Span = 100 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	2.186	1.15	2379	1.09	2500*
20	0	0	0	1.134	0.49	2900	0.46	3054
30	0	0	0	1.134	0.62	2273	0.57	2496
40	0	0	0	1.134	0.78	1808	0.7	2030
50	0	0	0	1.134	0.95	1488	0.85	1672
60	0	0	0	1.134	1.12	1270	1	1413
70	0	0	0	1.134	1.27	1115	1.16	1226
80	0	0	0	1.134	1.42	1002	1.3	1088
90	0	0	0	1.134	1.55	915	1.44	984
100	0	0	0	1.134	1.68	846	1.57	903
110	0	0	0	1.134	1.8	790	1.69	838
120	0	0	0	1.134	1.87	759	1.81	784
130	0	0	0	1.134	1.93	736	1.92	740
167	0	0	0	1.134	2.13	666	2.12	670
212	0	0	0	1.134	2.37	601	2.35	604

* Design Condition

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	2.186	4.46	2456	4.38	2500*
20	0	0	0	1.134	3.6	1577	3.46	1642
30	0	0	0	1.134	3.82	1488	3.67	1546
40	0	0	0	1.134	4.02	1412	3.88	1464
50	0	0	0	1.134	4.22	1345	4.08	1393
60	0	0	0	1.134	4.41	1287	4.27	1330
70	0	0	0	1.134	4.6	1235	4.46	1275
80	0	0	0	1.134	4.78	1189	4.64	1225
90	0	0	0	1.134	4.95	1148	4.81	1181
100	0	0	0	1.134	5.12	1110	4.98	1141
110	0	0	0	1.134	5.28	1076	5.15	1105
120	0	0	0	1.134	5.44	1045	5.31	1071
130	0	0	0	1.134	5.6	1016	5.46	1041
167	0	0	0	1.134	5.96	955	5.95	956
212	0	0	0	1.134	6.31	902	6.31	903

* Design Condition

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		
SHEET 227 OF 362		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									OH813.227
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>228 OF 362</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH813.228
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11
100.00	0-6	0-7	0-8	0-10	1-0	1-2	1-4	1-5	1-7	1-8
125.00	0-9	0-11	1-1	1-4	1-7	1-10	2-0	2-3	2-5	2-8
150.00	1-1	1-3	1-7	1-11	2-3	2-7	2-11	3-3	3-6	3-10
175.00	1-5	1-9	2-2	2-7	3-1	3-7	4-0	4-5	4-10	5-2
200.00	1-10	2-3	2-10	3-5	4-0	4-8	5-3	5-9	6-4	6-9

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-5	0-6	0-8	0-9	0-10	0-10	0-11	1-0
100.00	0-6	0-7	0-9	0-11	1-1	1-3	1-5	1-7	1-8	1-10
125.00	0-9	1-0	1-3	1-6	1-9	2-0	2-3	2-5	2-7	2-10
150.00	1-1	1-5	1-9	2-2	2-6	2-10	3-2	3-6	3-9	4-1
175.00	1-6	1-11	2-5	2-11	3-5	3-11	4-4	4-9	5-2	5-6
200.00	1-11	2-6	3-2	3-10	4-6	5-1	5-8	6-3	6-9	7-2

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 230 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.230
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3
125.00	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-11	2-0
150.00	1-11	2-1	2-2	2-4	2-5	2-6	2-7	2-8	2-10	2-11
175.00	2-8	2-10	3-0	3-1	3-3	3-5	3-7	3-8	3-10	3-11
200.00	3-5	3-8	3-11	4-1	4-3	4-5	4-8	4-10	5-0	5-2
225.00	4-5	4-8	4-11	5-2	5-5	5-8	5-10	6-1	6-4	6-6
250.00	5-5	5-9	6-1	6-4	6-8	7-0	7-3	7-6	7-9	8-1

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	0-11	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4
125.00	1-5	1-6	1-7	1-8	1-9	1-10	1-10	1-11	2-0	2-1
150.00	2-0	2-2	2-3	2-4	2-6	2-7	2-8	2-9	2-11	3-0
175.00	2-9	2-11	3-1	3-3	3-5	3-6	3-8	3-9	3-11	4-1
200.00	3-7	3-10	4-0	4-3	4-5	4-7	4-9	4-11	5-1	5-3
225.00	4-7	4-10	5-1	5-4	5-7	5-10	6-1	6-3	6-6	6-8
250.00	5-8	6-0	6-3	6-7	6-11	7-2	7-6	7-9	8-0	8-3

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>231 OF 362</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.231
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS					

Span = 100 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	2.186	1	2721	0.91	3000*
20	0	0	0	1.134	0.38	3714	0.35	4003
30	0	0	0	1.134	0.48	2947	0.42	3366
40	0	0	0	1.134	0.61	2309	0.51	2771
50	0	0	0	1.134	0.77	1834	0.63	2253
60	0	0	0	1.134	0.94	1506	0.77	1840
70	0	0	0	1.134	1.11	1282	0.92	1533
80	0	0	0	1.134	1.26	1124	1.08	1312
90	0	0	0	1.134	1.41	1008	1.23	1152
100	0	0	0	1.134	1.54	920	1.37	1033
110	0	0	0	1.134	1.67	850	1.51	941
120	0	0	0	1.134	1.74	816	1.63	869
130	0	0	0	1.134	1.8	790	1.75	810
167	0	0	0	1.134	2.01	708	1.99	714
212	0	0	0	1.134	2.25	632	2.23	637

* Design Condition

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	2.186	3.8	2883	3.65	3000*
20	0	0	0	1.134	2.76	2059	2.52	2254
30	0	0	0	1.134	3.01	1888	2.76	2056
40	0	0	0	1.134	3.25	1748	3	1893
50	0	0	0	1.134	3.48	1632	3.23	1758
60	0	0	0	1.134	3.7	1535	3.45	1645
70	0	0	0	1.134	3.91	1452	3.67	1549
80	0	0	0	1.134	4.11	1381	3.87	1466
90	0	0	0	1.134	4.31	1318	4.07	1394
100	0	0	0	1.134	4.5	1263	4.27	1332
110	0	0	0	1.134	4.68	1214	4.45	1276
120	0	0	0	1.134	4.86	1170	4.63	1227
130	0	0	0	1.134	5.03	1130	4.81	1182
167	0	0	0	1.134	5.43	1047	5.41	1051
212	0	0	0	1.134	5.8	980	5.79	982

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>235 OF 362</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									OH813.235
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 3000 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	2.186	14.83	2964	14.65	3000*
20	0	0	0	1.134	13.74	1658	13.47	1692
30	0	0	0	1.134	13.99	1629	13.72	1661
40	0	0	0	1.134	14.23	1601	13.96	1633
50	0	0	0	1.134	14.47	1575	14.2	1605
60	0	0	0	1.134	14.71	1550	14.44	1579
70	0	0	0	1.134	14.94	1526	14.67	1554
80	0	0	0	1.134	15.17	1503	14.9	1531
90	0	0	0	1.134	15.4	1481	15.13	1508
100	0	0	0	1.134	15.62	1460	15.35	1486
110	0	0	0	1.134	15.84	1440	15.57	1465
120	0	0	0	1.134	16.06	1421	15.79	1445
130	0	0	0	1.134	16.28	1403	16	1426
167	0	0	0	1.134	17.05	1340	16.78	1361
212	0	0	0	1.134	17.59	1300	17.58	1300

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>236 OF 362</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.236</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 3000 LBS</p> </div>						

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	2.186	23.14	2977	22.96	3000*
20	0	0	0	1.134	22.05	1619	21.78	1639
30	0	0	0	1.134	22.3	1602	22.02	1622
40	0	0	0	1.134	22.54	1585	22.27	1604
50	0	0	0	1.134	22.78	1568	22.51	1587
60	0	0	0	1.134	23.02	1552	22.75	1571
70	0	0	0	1.134	23.26	1537	22.98	1555
80	0	0	0	1.134	23.49	1522	23.21	1540
90	0	0	0	1.134	23.72	1507	23.45	1525
100	0	0	0	1.134	23.95	1493	23.67	1510
110	0	0	0	1.134	24.18	1479	23.9	1496
120	0	0	0	1.134	24.41	1466	24.13	1483
130	0	0	0	1.134	24.63	1453	24.35	1469
167	0	0	0	1.134	25.44	1407	25.16	1423
212	0	0	0	1.134	26.08	1374	26.08	1374
* Design Condition								

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>237 OF 362</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.237</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 3000 LBS</p> </div>					

Completely Revised



Information Removed

OH813.237

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1033.5 - 45/7 ACSR/AW TENSION 3000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10
100.00	0-4	0-5	0-6	0-8	0-9	0-11	1-1	1-3	1-4	1-6
125.00	0-7	0-8	0-10	1-0	1-2	1-5	1-8	1-11	2-2	2-4
150.00	0-10	0-11	1-2	1-5	1-9	2-1	2-5	2-9	3-1	3-5
175.00	1-1	1-3	1-7	1-11	2-4	2-10	3-4	3-9	4-2	4-7
200.00	1-5	1-8	2-1	2-6	3-1	3-8	4-4	4-11	5-6	6-0

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-4	0-5	0-6	0-7	0-9	0-9	0-10	0-11
100.00	0-5	0-6	0-7	0-9	0-11	1-1	1-3	1-5	1-7	1-8
125.00	0-7	0-9	1-0	1-2	1-6	1-9	2-0	2-2	2-5	2-7
150.00	0-10	1-1	1-5	1-9	2-1	2-6	2-10	3-2	3-6	3-9
175.00	1-2	1-6	1-11	2-4	2-11	3-5	3-10	4-4	4-9	5-1
200.00	1-6	1-11	2-5	3-1	3-9	4-5	5-1	5-8	6-2	6-8

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-1
125.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
150.00	1-5	1-7	1-8	1-10	1-11	2-1	2-2	2-3	2-5	2-6
175.00	1-11	2-1	2-4	2-6	2-8	2-10	3-0	3-1	3-3	3-5
200.00	2-6	2-9	3-0	3-3	3-5	3-8	3-10	4-1	4-3	4-5
225.00	3-2	3-6	3-10	4-1	4-4	4-8	4-11	5-2	5-5	5-8
250.00	3-11	4-4	4-8	5-1	5-5	5-9	6-1	6-4	6-8	7-0

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-1	1-2
125.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10
150.00	1-7	1-8	1-10	1-11	2-1	2-2	2-4	2-5	2-6	2-8
175.00	2-1	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-5	3-7
200.00	2-9	3-0	3-3	3-6	3-8	3-11	4-1	4-4	4-6	4-8
225.00	3-6	3-10	4-1	4-5	4-8	4-11	5-2	5-5	5-8	5-11
250.00	4-4	4-8	5-1	5-5	5-9	6-1	6-5	6-9	7-0	7-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>239 OF 362</p> </div>	Indicates Latest Revision		Completely Revised	<div style="border: 1px solid black; padding: 2px;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.239</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 3000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-4	3-5	3-6	3-7	3-7	3-8	3-9	3-9	3-10	3-11
225.00	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-9	4-10	4-11
250.00	5-3	5-4	5-5	5-6	5-8	5-9	5-10	5-11	6-0	6-1
275.00	6-4	6-6	6-7	6-8	6-10	6-11	7-0	7-2	7-3	7-4
300.00	7-7	7-9	7-10	8-0	8-1	8-3	8-4	8-6	8-8	8-9
325.00	8-11	9-1	9-3	9-4	9-6	9-8	9-10	10-0	10-2	10-3
350.00	10-4	10-6	10-8	10-10	11-1	11-3	11-5	11-7	11-9	11-11
375.00	11-10	12-1	12-3	12-6	12-8	12-11	13-1	13-4	13-6	13-8
400.00	13-6	13-9	14-0	14-2	14-5	14-8	14-11	15-2	15-4	15-7
425.00	15-2	15-6	15-9	16-0	16-4	16-7	16-10	17-1	17-4	17-7
450.00	17-1	17-4	17-8	18-0	18-3	18-7	18-10	19-2	19-5	19-9
475.00	19-0	19-4	19-8	20-0	20-4	20-8	21-0	21-4	21-8	22-0
500.00	21-1	21-5	21-10	22-3	22-7	22-11	23-4	23-8	24-0	24-4


Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-5	3-6	3-7	3-7	3-8	3-9	3-9	3-10	3-11	3-11
225.00	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-10	4-11	5-0
250.00	5-4	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1	6-2
275.00	6-6	6-7	6-9	6-10	6-11	7-1	7-2	7-3	7-5	7-6
300.00	7-9	7-10	8-0	8-2	8-3	8-5	8-6	8-8	8-9	8-11
325.00	9-1	9-3	9-5	9-7	9-8	9-10	10-0	10-2	10-4	10-5
350.00	10-6	10-8	10-11	11-1	11-3	11-5	11-7	11-9	11-11	12-2
375.00	12-1	12-4	12-6	12-9	12-11	13-2	13-4	13-6	13-9	13-11
400.00	13-9	14-0	14-3	14-6	14-9	14-11	15-2	15-5	15-7	15-10
425.00	15-6	15-10	16-1	16-4	16-7	16-10	17-2	17-5	17-8	17-11
450.00	17-5	17-9	18-0	18-4	18-8	18-11	19-3	19-6	19-9	20-1
475.00	19-5	19-9	20-1	20-5	20-9	21-1	21-5	21-9	22-1	22-4
500.00	21-6	21-11	22-3	22-8	23-0	23-4	23-9	24-1	24-5	24-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 241 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.241
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 3000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-5	5-6	5-7	5-7	5-8	5-9	5-9	5-10	5-11	6-0
275.00	6-7	6-8	6-9	6-10	6-10	6-11	7-0	7-1	7-2	7-3
300.00	7-10	7-11	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-7
325.00	9-2	9-3	9-5	9-6	9-7	9-8	9-10	9-11	10-0	10-1
350.00	10-8	10-9	10-11	11-0	11-2	11-3	11-4	11-6	11-7	11-8
375.00	12-3	12-4	12-6	12-8	12-9	12-11	13-0	13-2	13-4	13-5
400.00	13-11	14-1	14-3	14-5	14-7	14-8	14-10	15-0	15-2	15-3
425.00	15-9	15-11	16-1	16-3	16-5	16-7	16-9	16-11	17-1	17-3
450.00	17-8	17-10	18-0	18-3	18-5	18-7	18-10	19-0	19-2	19-4
475.00	19-8	19-10	20-1	20-4	20-6	20-9	20-11	21-2	21-4	21-7
500.00	21-9	22-0	22-3	22-6	22-9	23-0	23-3	23-5	23-8	23-11
525.00	24-0	24-3	24-7	24-10	25-1	25-4	25-7	25-10	26-1	26-4
550.00	26-4	26-8	26-11	27-3	27-6	27-10	28-1	28-5	28-8	28-11
575.00	28-10	29-2	29-6	29-10	30-1	30-5	30-9	31-0	31-4	31-8
600.00	31-5	31-9	32-1	32-5	32-10	33-2	33-6	33-10	34-2	34-6
625.00	34-1	34-6	34-10	35-3	35-7	36-0	36-4	36-8	37-1	37-5

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<div style="text-align: center;"> <p>SHEET</p> <p>242 OF 362</p> </div>	Indicates Latest Revision		Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH813.242</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 3000 LBS</p> </div>					

Span = 100 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	2.186	2.74	1000	2.74	1000*
0	0	0	0	1.134	2.52	563	2.52	565
30	0	0	0	1.134	2.78	512	2.77	513
40	0	0	0	1.134	2.86	498	2.85	500
50	0	0	0	1.134	2.93	485	2.92	487
60	0	0	0	1.134	3.01	473	3	475
70	0	0	0	1.134	3.08	462	3.07	464
80	0	0	0	1.134	3.15	452	3.14	454
90	0	0	0	1.134	3.21	444	3.21	444
100	0	0	0	1.134	3.25	438	3.25	438
110	0	0	0	1.134	3.29	433	3.29	433
120	0	0	0	1.134	3.33	428	3.33	428
130	0	0	0	1.134	3.36	423	3.36	423
167	0	0	0	1.134	3.5	407	3.5	407
212	0	0	0	1.134	3.67	389	3.67	389

* Design Condition

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	2.186	11.06	1000	11.06	1000*
0	0	0	0	1.134	10.85	529	10.84	529
30	0	0	0	1.134	11.1	517	11.09	517
40	0	0	0	1.134	11.18	513	11.17	514
50	0	0	0	1.134	11.26	510	11.25	510
60	0	0	0	1.134	11.34	506	11.33	507
70	0	0	0	1.134	11.42	503	11.41	504
80	0	0	0	1.134	11.5	500	11.48	500
90	0	0	0	1.134	11.56	497	11.56	497
100	0	0	0	1.134	11.63	494	11.63	494
110	0	0	0	1.134	11.68	492	11.68	492
120	0	0	0	1.134	11.72	490	11.72	490
130	0	0	0	1.134	11.77	489	11.77	489
167	0	0	0	1.134	11.93	482	11.93	482
212	0	0	0	1.134	12.14	474	12.14	474
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>243 OF 362</div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH813.243	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C					F						
B					E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
		<div style="text-align: center;">Indicates Latest Revision Completely Revised X New Page Information Removed</div>									OH813.244
SHEET 244 OF 362		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	2.186	74.39	1000	74.39	1000*
0	0	0	0	1.134	74.18	520	74.17	520
30	0	0	0	1.134	74.43	519	74.42	519
40	0	0	0	1.134	74.51	518	74.5	518
50	0	0	0	1.134	74.59	518	74.58	518
60	0	0	0	1.134	74.67	517	74.66	517
70	0	0	0	1.134	74.75	517	74.74	517
80	0	0	0	1.134	74.83	516	74.82	516
90	0	0	0	1.134	74.91	516	74.9	516
100	0	0	0	1.134	74.98	515	74.98	515
110	0	0	0	1.134	75.03	515	75.03	515
120	0	0	0	1.134	75.07	515	75.07	515
130	0	0	0	1.134	75.12	515	75.12	515
167	0	0	0	1.134	75.3	514	75.3	514
212	0	0	0	1.134	75.52	512	75.52	512

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 245 OF 362		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH813.245	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag										Ruling Span: 200.0 Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-9	2-9	2-9	2-10	2-10	2-10	2-10	2-11	2-11	2-11
125.00	4-3	4-4	4-4	4-5	4-5	4-5	4-6	4-6	4-6	4-7
150.00	6-2	6-3	6-3	6-4	6-4	6-5	6-5	6-6	6-6	6-7
175.00	8-5	8-6	8-7	8-7	8-8	8-9	8-9	8-10	8-11	8-11
200.00	11-0	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-8
225.00	13-11	14-1	14-2	14-3	14-4	14-5	14-7	14-8	14-9	14-10
250.00	17-3	17-4	17-6	17-7	17-9	17-10	18-0	18-1	18-3	18-3

Stringing Sag Table Using Final Sag										Ruling Span: 200.0 Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-9	2-9	2-9	2-10	2-10	2-10	2-10	2-11	2-11	2-11
125.00	4-4	4-4	4-4	4-5	4-5	4-5	4-6	4-6	4-6	4-7
150.00	6-2	6-3	6-3	6-4	6-4	6-5	6-5	6-6	6-6	6-7
175.00	8-5	8-6	8-7	8-7	8-8	8-9	8-10	8-10	8-11	8-11
200.00	11-0	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-8
225.00	14-0	14-1	14-2	14-3	14-4	14-6	14-7	14-8	14-9	14-10
250.00	17-3	17-5	17-6	17-8	17-9	17-11	18-0	18-1	18-3	18-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 247 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.247
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span:	300.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-3	6-3	6-4	6-4	6-4	6-4	6-5	6-5	6-5	6-5
175.00	8-6	8-7	8-7	8-7	8-8	8-8	8-8	8-9	8-9	8-9
200.00	11-2	11-2	11-3	11-3	11-4	11-4	11-4	11-5	11-5	11-5
225.00	14-2	14-2	14-3	14-3	14-4	14-4	14-5	14-5	14-6	14-6
250.00	17-6	17-6	17-7	17-8	17-8	17-9	17-10	17-10	17-11	17-11
275.00	21-2	21-3	21-4	21-5	21-5	21-6	21-7	21-8	21-8	21-9
300.00	25-3	25-4	25-5	25-6	25-7	25-8	25-9	25-10	25-10	25-11
325.00	29-8	29-9	29-10	29-11	30-1	30-2	30-3	30-4	30-5	30-6
350.00	34-6	34-7	34-8	34-10	34-11	35-0	35-1	35-3	35-4	35-5
375.00	39-8	39-9	39-11	40-0	40-2	40-3	40-5	40-6	40-8	40-9

Stringing Sag Table Using Final Sag							Ruling Span: 300.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-3	6-3	6-4	6-4	6-4	6-4	6-5	6-5	6-5	6-5
175.00	8-6	8-7	8-7	8-7	8-8	8-8	8-8	8-9	8-9	8-9
200.00	11-2	11-2	11-3	11-3	11-4	11-4	11-4	11-5	11-5	11-5
225.00	14-2	14-2	14-3	14-3	14-4	14-4	14-5	14-5	14-6	14-6
250.00	17-6	17-6	17-7	17-8	17-8	17-9	17-10	17-10	17-11	17-11
275.00	21-2	21-3	21-4	21-5	21-5	21-6	21-7	21-8	21-8	21-9
300.00	25-3	25-4	25-5	25-6	25-7	25-8	25-9	25-10	25-10	25-11
325.00	29-8	29-9	29-10	30-0	30-1	30-2	30-3	30-4	30-5	30-6
350.00	34-6	34-7	34-8	34-10	34-11	35-0	35-2	35-3	35-4	35-5
375.00	39-8	39-9	39-11	40-0	40-2	40-3	40-5	40-6	40-8	40-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>248 OF 362</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH813.248
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-4	11-4	11-5	11-5	11-5	11-5	11-6	11-6	11-6	11-6
225.00	14-5	14-5	14-5	14-5	14-6	14-6	14-6	14-7	14-7	14-7
250.00	17-9	17-10	17-10	17-10	17-11	17-11	18-0	18-0	18-0	18-0
275.00	21-7	21-7	21-7	21-8	21-8	21-9	21-9	21-10	21-10	21-10
300.00	25-8	25-9	25-9	25-10	25-10	25-11	25-11	26-0	26-0	26-1
325.00	30-2	30-3	30-3	30-4	30-5	30-5	30-6	30-7	30-7	30-8
350.00	35-1	35-2	35-2	35-3	35-4	35-4	35-5	35-6	35-7	35-7
375.00	40-4	40-5	40-6	40-7	40-7	40-8	40-9	40-10	40-11	40-11
400.00	46-0	46-1	46-2	46-3	46-4	46-5	46-6	46-7	46-7	46-8
425.00	52-0	52-1	52-3	52-4	52-5	52-6	52-7	52-8	52-9	52-10
450.00	58-6	58-7	58-8	58-9	58-11	59-0	59-1	59-2	59-3	59-4
475.00	65-4	65-5	65-6	65-8	65-9	65-11	66-0	66-1	66-3	66-3
500.00	72-7	72-8	72-10	72-11	73-1	73-2	73-4	73-5	73-7	73-8

Stringing Sag Table Using Final Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-4	11-4	11-5	11-5	11-5	11-5	11-6	11-6	11-6	11-6
225.00	14-5	14-5	14-5	14-6	14-6	14-6	14-6	14-7	14-7	14-7
250.00	17-9	17-10	17-10	17-10	17-11	17-11	18-0	18-0	18-0	18-0
275.00	21-7	21-7	21-7	21-8	21-8	21-9	21-9	21-10	21-10	21-10
300.00	25-8	25-9	25-9	25-10	25-10	25-11	25-11	26-0	26-0	26-1
325.00	30-2	30-3	30-4	30-4	30-5	30-5	30-6	30-7	30-7	30-8
350.00	35-1	35-2	35-2	35-3	35-4	35-5	35-5	35-6	35-7	35-7
375.00	40-4	40-5	40-6	40-7	40-8	40-8	40-9	40-10	40-11	40-11
400.00	46-0	46-1	46-2	46-3	46-4	46-5	46-6	46-7	46-7	46-8
425.00	52-1	52-2	52-3	52-4	52-5	52-6	52-7	52-8	52-9	52-10
450.00	58-6	58-7	58-8	58-9	58-11	59-0	59-1	59-2	59-3	59-4
475.00	65-4	65-5	65-7	65-8	65-9	65-11	66-0	66-1	66-3	66-3
500.00	72-7	72-8	72-10	72-11	73-1	73-2	73-4	73-5	73-7	73-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 249 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.249
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS					

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	2.186	7.32	1500	7.32	1500*
0	0	0	0	1.134	6.98	816	6.96	818
30	0	0	0	1.134	7.35	775	7.33	778
40	0	0	0	1.134	7.47	763	7.45	765
50	0	0	0	1.134	7.59	752	7.56	754
60	0	0	0	1.134	7.7	740	7.68	743
70	0	0	0	1.134	7.82	730	7.79	732
80	0	0	0	1.134	7.93	720	7.9	722
90	0	0	0	1.134	8.04	710	8.01	712
100	0	0	0	1.134	8.15	701	8.12	703
110	0	0	0	1.134	8.25	692	8.23	694
120	0	0	0	1.134	8.33	685	8.33	685
130	0	0	0	1.134	8.4	680	8.4	680
167	0	0	0	1.134	8.63	662	8.63	662
212	0	0	0	1.134	8.89	643	8.89	643

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>251 OF 362</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH813.251
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>252 OF 362</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.252</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS						

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	2.186	47.16	1500	47.16	1500*
0	0	0	0	1.134	46.82	783	46.8	784
30	0	0	0	1.134	47.19	778	47.17	778
40	0	0	0	1.134	47.31	776	47.29	776
50	0	0	0	1.134	47.43	774	47.41	774
60	0	0	0	1.134	47.55	772	47.53	773
70	0	0	0	1.134	47.67	771	47.64	771
80	0	0	0	1.134	47.79	769	47.76	769
90	0	0	0	1.134	47.91	767	47.88	767
100	0	0	0	1.134	48.03	765	48	766
110	0	0	0	1.134	48.14	763	48.11	764
120	0	0	0	1.134	48.25	762	48.23	762
130	0	0	0	1.134	48.35	760	48.35	760
167	0	0	0	1.134	48.62	757	48.62	757
212	0	0	0	1.134	48.94	752	48.94	752
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>253 OF 362</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.253</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 1500 LBS</p> </div>						

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-5
100.00	1-9	1-10	1-11	2-1	2-2	2-3	2-4	2-5	2-6	2-7
125.00	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-9	3-11	4-0
150.00	3-10	4-1	4-4	4-7	4-10	5-1	5-3	5-6	5-8	5-10
175.00	5-3	5-7	5-11	6-3	6-7	6-11	7-2	7-5	7-8	7-11
200.00	6-10	7-4	7-9	8-2	8-7	9-0	9-4	9-9	10-1	10-4

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-0	1-0	1-1	1-2	1-3	1-3	1-4	1-5	1-5	1-5
100.00	1-9	1-10	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7
125.00	2-9	2-11	3-1	3-3	3-5	3-6	3-8	3-10	3-11	4-0
150.00	3-11	4-2	4-5	4-8	4-11	5-1	5-4	5-6	5-8	5-10
175.00	5-4	5-8	6-0	6-4	6-8	6-11	7-3	7-6	7-9	7-11
200.00	6-11	7-5	7-10	8-3	8-8	9-1	9-5	9-10	10-1	10-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 254 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.254
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-10	1-10	1-10	1-11	1-11	1-11	2-0	2-0	2-0	2-1
125.00	2-10	2-10	2-11	2-11	3-0	3-0	3-1	3-2	3-2	3-3
150.00	4-1	4-1	4-2	4-3	4-4	4-5	4-5	4-6	4-7	4-7
175.00	5-6	5-7	5-8	5-9	5-11	6-0	6-1	6-2	6-3	6-4
200.00	7-3	7-4	7-5	7-7	7-8	7-9	7-11	8-0	8-1	8-3
225.00	9-2	9-3	9-5	9-7	9-9	9-10	10-0	10-2	10-3	10-5
250.00	11-3	11-6	11-8	11-10	12-0	12-2	12-4	12-6	12-8	12-10

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-10	1-10	1-10	1-11	1-11	1-11	2-0	2-0	2-0	2-1
125.00	2-10	2-10	2-11	3-0	3-0	3-1	3-1	3-2	3-2	3-3
150.00	4-1	4-2	4-2	4-3	4-4	4-5	4-5	4-6	4-7	4-8
175.00	5-6	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4
200.00	7-3	7-4	7-6	7-7	7-8	7-10	7-11	8-0	8-2	8-3
225.00	9-2	9-4	9-6	9-7	9-9	9-11	10-0	10-2	10-4	10-5
250.00	11-4	11-6	11-8	11-10	12-1	12-3	12-5	12-7	12-9	12-11

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Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-1	4-2	4-2	4-2	4-3	4-3	4-3	4-4	4-4	4-4
175.00	5-7	5-8	5-8	5-9	5-9	5-10	5-10	5-10	5-11	5-11
200.00	7-4	7-4	7-5	7-6	7-6	7-7	7-7	7-8	7-9	7-9
225.00	9-3	9-4	9-5	9-5	9-6	9-7	9-8	9-9	9-9	9-10
250.00	11-5	11-6	11-7	11-8	11-9	11-10	11-11	12-0	12-1	12-2
275.00	13-10	13-11	14-0	14-2	14-3	14-4	14-5	14-6	14-7	14-9
300.00	16-6	16-7	16-9	16-10	16-11	17-1	17-2	17-4	17-5	17-6
325.00	19-4	19-6	19-8	19-9	19-11	20-1	20-2	20-4	20-5	20-7
350.00	22-6	22-8	22-9	22-11	23-1	23-3	23-5	23-7	23-9	23-11
375.00	25-10	26-0	26-2	26-4	26-7	26-9	26-11	27-1	27-3	27-6

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-1	4-2	4-2	4-2	4-3	4-3	4-3	4-4	4-4	4-4
175.00	5-7	5-8	5-8	5-9	5-9	5-10	5-10	5-11	5-11	5-11
200.00	7-4	7-4	7-5	7-6	7-6	7-7	7-8	7-8	7-9	7-9
225.00	9-3	9-4	9-5	9-6	9-6	9-7	9-8	9-9	9-10	9-10
250.00	11-5	11-6	11-7	11-8	11-9	11-10	11-11	12-0	12-1	12-2
275.00	13-10	14-0	14-1	14-2	14-3	14-4	14-5	14-7	14-8	14-9
300.00	16-6	16-7	16-9	16-10	17-0	17-1	17-3	17-4	17-5	17-7
325.00	19-5	19-6	19-8	19-10	19-11	20-1	20-3	20-4	20-6	20-7
350.00	22-6	22-8	22-10	23-0	23-2	23-4	23-6	23-7	23-9	23-11
375.00	25-10	26-0	26-3	26-5	26-7	26-9	27-0	27-2	27-4	27-6

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SHEET 256 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.256
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span:		400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-5	7-5	7-5	7-6	7-6	7-6	7-7	7-7	7-7	7-8
225.00	9-4	9-5	9-5	9-5	9-6	9-6	9-7	9-7	9-8	9-8
250.00	11-7	11-7	11-8	11-8	11-9	11-9	11-10	11-10	11-11	11-11
275.00	14-0	14-0	14-1	14-2	14-2	14-3	14-4	14-4	14-5	14-6
300.00	16-8	16-8	16-9	16-10	16-11	17-0	17-0	17-1	17-2	17-3
325.00	19-7	19-7	19-8	19-9	19-10	19-11	20-0	20-1	20-2	20-3
350.00	22-8	22-9	22-10	22-11	23-1	23-2	23-3	23-4	23-5	23-6
375.00	26-1	26-2	26-3	26-4	26-6	26-7	26-8	26-9	26-11	27-0
400.00	29-8	29-10	29-11	30-0	30-2	30-3	30-5	30-6	30-7	30-9
425.00	33-6	33-8	33-10	33-11	34-1	34-2	34-4	34-6	34-7	34-9
450.00	37-8	37-9	37-11	38-1	38-3	38-5	38-6	38-8	38-10	39-0
475.00	42-0	42-2	42-4	42-6	42-8	42-10	43-0	43-2	43-4	43-6
500.00	46-7	46-9	46-11	47-2	47-4	47-6	47-8	47-10	48-1	48-3

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-5	7-5	7-5	7-6	7-6	7-6	7-7	7-7	7-7	7-8
225.00	9-4	9-5	9-5	9-6	9-6	9-6	9-7	9-7	9-8	9-8
250.00	11-7	11-7	11-8	11-8	11-9	11-9	11-10	11-10	11-11	12-0
275.00	14-0	14-0	14-1	14-2	14-2	14-3	14-4	14-4	14-5	14-6
300.00	16-8	16-9	16-9	16-10	16-11	17-0	17-1	17-1	17-2	17-3
325.00	19-7	19-8	19-9	19-10	19-10	19-11	20-0	20-1	20-2	20-3
350.00	22-8	22-9	22-11	23-0	23-1	23-2	23-3	23-4	23-5	23-6
375.00	26-1	26-2	26-3	26-5	26-6	26-7	26-8	26-10	26-11	27-0
400.00	29-8	29-10	29-11	30-1	30-2	30-4	30-5	30-6	30-8	30-9
425.00	33-7	33-8	33-10	34-0	34-1	34-3	34-4	34-6	34-8	34-9
450.00	37-8	37-10	38-0	38-1	38-3	38-5	38-7	38-9	38-10	39-0
475.00	42-0	42-2	42-4	42-6	42-8	42-10	43-0	43-2	43-4	43-6
500.00	46-7	46-9	47-0	47-2	47-4	47-6	47-9	47-11	48-1	48-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D							
SHEET 257 OF 362		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH813.257
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS											

Span = 100 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	2.186	1.37	2000	1.37	2000*
0	0	0	0	1.134	0.89	1589	0.88	1615
30	0	0	0	1.134	1.37	1039	1.33	1066
40	0	0	0	1.134	1.5	943	1.47	967
50	0	0	0	1.134	1.63	869	1.6	889
60	0	0	0	1.134	1.76	808	1.72	827
70	0	0	0	1.134	1.87	759	1.83	775
80	0	0	0	1.134	1.98	717	1.94	731
90	0	0	0	1.134	2.09	681	2.05	694
100	0	0	0	1.134	2.19	650	2.15	662
110	0	0	0	1.134	2.25	632	2.24	633
120	0	0	0	1.134	2.31	614	2.31	614
130	0	0	0	1.134	2.36	601	2.36	601
167	0	0	0	1.134	2.54	559	2.54	559
212	0	0	0	1.134	2.75	517	2.75	517
* Design Condition								

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	2.186	5.48	2000	5.48	2000*
0	0	0	0	1.134	4.99	1139	4.95	1147
30	0	0	0	1.134	5.48	1038	5.44	1045
40	0	0	0	1.134	5.63	1010	5.59	1017
50	0	0	0	1.134	5.78	984	5.74	991
60	0	0	0	1.134	5.93	959	5.89	966
70	0	0	0	1.134	6.08	937	6.03	943
80	0	0	0	1.134	6.22	916	6.17	922
90	0	0	0	1.134	6.35	896	6.31	902
100	0	0	0	1.134	6.49	877	6.44	884
110	0	0	0	1.134	6.62	860	6.57	866
120	0	0	0	1.134	6.75	844	6.7	850
130	0	0	0	1.134	6.85	832	6.83	834
167	0	0	0	1.134	7.14	798	7.14	798
212	0	0	0	1.134	7.46	765	7.46	765
* Design Condition								

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		Indicates Latest Revision				Completely Revised	X New Page			Information Removed	
SHEET 259 OF 362		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									OH813.259
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS									

* Design Condition

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>260 OF 362</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH813.260
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	2.186	34.82	1999	34.81	2000*
0	0	0	0	1.134	34.34	1052	34.29	1053
30	0	0	0	1.134	34.82	1037	34.77	1039
40	0	0	0	1.134	34.98	1033	34.93	1034
50	0	0	0	1.134	35.14	1028	35.09	1030
60	0	0	0	1.134	35.3	1024	35.25	1025
70	0	0	0	1.134	35.46	1020	35.4	1021
80	0	0	0	1.134	35.62	1015	35.56	1017
90	0	0	0	1.134	35.77	1011	35.72	1013
100	0	0	0	1.134	35.93	1007	35.87	1008
110	0	0	0	1.134	36.08	1003	36.02	1004
120	0	0	0	1.134	36.24	998	36.18	1000
130	0	0	0	1.134	36.39	994	36.33	996
167	0	0	0	1.134	36.85	983	36.85	983
212	0	0	0	1.134	37.26	972	37.26	972

* Design Condition

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<div style="text-align: center;"> <p>SHEET</p> <p>261 OF 362</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH813.261</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 2000 LBS</p> </div>				

Completely Revised



OH813.261

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-0	3-1	3-1	3-2	3-2	3-3	3-3	3-4	3-4	3-5
175.00	4-2	4-2	4-3	4-4	4-4	4-5	4-5	4-6	4-7	4-7
200.00	5-5	5-6	5-7	5-7	5-8	5-9	5-10	5-11	5-11	6-0
225.00	6-10	6-11	7-0	7-1	7-2	7-3	7-4	7-5	7-6	7-7
250.00	8-5	8-7	8-8	8-9	8-11	9-0	9-1	9-2	9-4	9-5
275.00	10-3	10-4	10-6	10-7	10-9	10-11	11-0	11-2	11-3	11-5
300.00	12-2	12-4	12-6	12-8	12-10	12-11	13-1	13-3	13-5	13-7
325.00	14-4	14-6	14-8	14-10	15-0	15-3	15-5	15-7	15-9	15-11
350.00	16-7	16-10	17-0	17-3	17-5	17-8	17-10	18-1	18-3	18-5
375.00	19-1	19-4	19-7	19-9	20-0	20-3	20-6	20-9	21-0	21-2

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-1	3-1	3-2	3-2	3-2	3-3	3-3	3-4	3-4	3-5
175.00	4-2	4-2	4-3	4-4	4-4	4-5	4-6	4-6	4-7	4-7
200.00	5-5	5-6	5-7	5-8	5-8	5-9	5-10	5-11	6-0	6-0
225.00	6-10	6-11	7-1	7-2	7-3	7-4	7-5	7-6	7-7	7-8
250.00	8-6	8-7	8-8	8-10	8-11	9-0	9-2	9-3	9-4	9-5
275.00	10-3	10-5	10-6	10-8	10-10	10-11	11-1	11-2	11-4	11-5
300.00	12-3	12-5	12-6	12-8	12-10	13-0	13-2	13-4	13-5	13-7
325.00	14-4	14-6	14-9	14-11	15-1	15-3	15-5	15-7	15-9	16-0
350.00	16-8	16-10	17-1	17-4	17-6	17-9	17-11	18-1	18-4	18-6
375.00	19-1	19-4	19-7	19-10	20-1	20-4	20-7	20-10	21-1	21-3

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SHEET 264 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.264
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS					

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	2.186	4.41	2483	4.38	2500*
0	0	0	0	1.134	3.76	1511	3.67	1547
30	0	0	0	1.134	4.36	1302	4.27	1331
40	0	0	0	1.134	4.55	1249	4.45	1275
50	0	0	0	1.134	4.73	1201	4.64	1226
60	0	0	0	1.134	4.91	1159	4.81	1181
70	0	0	0	1.134	5.08	1120	4.98	1141
80	0	0	0	1.134	5.24	1085	5.14	1105
90	0	0	0	1.134	5.4	1053	5.31	1072
100	0	0	0	1.134	5.56	1023	5.46	1041
110	0	0	0	1.134	5.71	996	5.61	1013
120	0	0	0	1.134	5.86	971	5.76	987
130	0	0	0	1.134	6	948	5.91	963
167	0	0	0	1.134	6.33	899	6.33	899
212	0	0	0	1.134	6.67	854	6.67	854

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 267 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.267
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	2.186	17.69	2491	17.62	2500*
0	0	0	0	1.134	17.03	1341	16.9	1351
30	0	0	0	1.134	17.64	1296	17.5	1306
40	0	0	0	1.134	17.84	1282	17.7	1291
50	0	0	0	1.134	18.03	1268	17.9	1278
60	0	0	0	1.134	18.22	1255	18.09	1264
70	0	0	0	1.134	18.42	1242	18.28	1251
80	0	0	0	1.134	18.6	1230	18.47	1239
90	0	0	0	1.134	18.79	1218	18.65	1226
100	0	0	0	1.134	18.98	1206	18.84	1215
110	0	0	0	1.134	19.16	1194	19.02	1203
120	0	0	0	1.134	19.35	1183	19.2	1192
130	0	0	0	1.134	19.53	1173	19.38	1181
167	0	0	0	1.134	20.11	1139	20.04	1143
212	0	0	0	1.134	20.57	1114	20.57	1114

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>268 OF 362</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH813.268
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS									

Span = 500 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	2.186	27.73	2494	27.66	2500*
0	0	0	0	1.134	27.07	1324	26.94	1331
30	0	0	0	1.134	27.68	1296	27.54	1302
40	0	0	0	1.134	27.88	1287	27.74	1293
50	0	0	0	1.134	28.07	1278	27.93	1285
60	0	0	0	1.134	28.27	1270	28.13	1276
70	0	0	0	1.134	28.46	1261	28.32	1267
80	0	0	0	1.134	28.66	1253	28.51	1259
90	0	0	0	1.134	28.85	1245	28.7	1251
100	0	0	0	1.134	29.04	1237	28.89	1243
110	0	0	0	1.134	29.23	1229	29.08	1235
120	0	0	0	1.134	29.42	1221	29.27	1227
130	0	0	0	1.134	29.61	1214	29.46	1220
167	0	0	0	1.134	30.26	1188	30.14	1193
212	0	0	0	1.134	30.75	1170	30.75	1170

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SHEET
269 OF 362

Indicates Latest Revision

Completely Revised



New Page

Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 2500 LBS

OH813.269

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-5
125.00	1-7	1-8	1-9	1-10	1-11	1-11	2-0	2-1	2-2	2-2
150.00	2-4	2-5	2-6	2-7	2-8	2-10	2-11	3-0	3-1	3-2
175.00	3-1	3-3	3-5	3-7	3-8	3-10	3-11	4-1	4-2	4-4
200.00	4-1	4-3	4-5	4-8	4-10	5-0	5-2	5-4	5-6	5-7
225.00	5-2	5-5	5-8	5-10	6-1	6-4	6-6	6-9	6-11	7-1
250.00	6-4	6-8	7-0	7-3	7-6	7-9	8-1	8-4	8-6	8-9

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-0	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-5	1-5
125.00	1-8	1-8	1-9	1-10	1-11	2-0	2-1	2-1	2-2	2-3
150.00	2-4	2-5	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-3
175.00	3-2	3-4	3-6	3-7	3-9	3-11	4-0	4-2	4-3	4-4
200.00	4-2	4-4	4-7	4-9	4-11	5-1	5-3	5-5	5-7	5-9
225.00	5-3	5-6	5-9	6-0	6-3	6-5	6-8	6-10	7-0	7-3
250.00	6-6	6-10	7-1	7-5	7-8	7-11	8-2	8-5	8-8	8-11

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SHEET 271 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.271
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-4	4-4	4-5	4-6	4-6	4-7	4-7	4-8	4-8	4-9
225.00	5-6	5-6	5-7	5-8	5-9	5-9	5-10	5-11	5-11	6-0
250.00	6-9	6-10	6-11	7-0	7-1	7-2	7-2	7-3	7-4	7-5
275.00	8-2	8-3	8-4	8-5	8-6	8-8	8-9	8-10	8-11	9-0
300.00	9-9	9-10	9-11	10-1	10-2	10-3	10-4	10-6	10-7	10-8
325.00	11-5	11-7	11-8	11-10	11-11	12-1	12-2	12-4	12-5	12-7
350.00	13-3	13-5	13-7	13-8	13-10	14-0	14-2	14-3	14-5	14-7
375.00	15-2	15-5	15-7	15-9	15-11	16-1	16-3	16-5	16-7	16-9
400.00	17-4	17-6	17-8	17-11	18-1	18-3	18-6	18-8	18-10	19-0
425.00	19-7	19-9	20-0	20-3	20-5	20-8	20-10	21-1	21-3	21-6
450.00	21-11	22-2	22-5	22-8	22-11	23-2	23-5	23-8	23-10	24-1
475.00	24-5	24-9	25-0	25-3	25-6	25-10	26-1	26-4	26-7	26-10
500.00	27-1	27-5	27-8	28-0	28-4	28-7	28-11	29-2	29-6	29-9

Stringing Sag Table Using Final Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-4	4-5	4-5	4-6	4-7	4-7	4-8	4-8	4-9	4-9
225.00	5-6	5-7	5-8	5-8	5-9	5-10	5-11	5-11	6-0	6-1
250.00	6-10	6-11	6-11	7-0	7-1	7-2	7-3	7-4	7-5	7-6
275.00	8-3	8-4	8-5	8-6	8-7	8-8	8-9	8-10	8-11	9-1
300.00	9-10	9-11	10-0	10-2	10-3	10-4	10-5	10-7	10-8	10-9
325.00	11-6	11-8	11-9	11-11	12-0	12-2	12-3	12-5	12-6	12-8
350.00	13-4	13-6	13-8	13-10	13-11	14-1	14-3	14-5	14-6	14-8
375.00	15-4	15-6	15-8	15-10	16-0	16-2	16-4	16-6	16-8	16-10
400.00	17-5	17-8	17-10	18-0	18-3	18-5	18-7	18-10	19-0	19-2
425.00	19-8	19-11	20-2	20-4	20-7	20-10	21-0	21-3	21-5	21-8
450.00	22-1	22-4	22-7	22-10	23-1	23-4	23-7	23-10	24-0	24-3
475.00	24-7	24-11	25-2	25-5	25-9	26-0	26-3	26-6	26-10	27-1
500.00	27-3	27-7	27-11	28-3	28-6	28-10	29-1	29-5	29-8	30-0

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SHEET 273 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.273
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS					

* Design Condition

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>275 OF 362</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH813.275
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 3000 LBS									

* Design Condition

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div>SHEET</div> <div>276 OF 362</div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	OH813.276
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 3000 LBS						

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	2.186	23.11	2980	22.96	3000*
0	0	0	0	1.134	22.27	1604	22.02	1622
30	0	0	0	1.134	22.99	1554	22.74	1571
40	0	0	0	1.134	23.23	1539	22.98	1555
50	0	0	0	1.134	23.46	1524	23.21	1540
60	0	0	0	1.134	23.7	1509	23.44	1525
70	0	0	0	1.134	23.93	1495	23.67	1511
80	0	0	0	1.134	24.15	1481	23.9	1496
90	0	0	0	1.134	24.38	1467	24.12	1483
100	0	0	0	1.134	24.6	1454	24.35	1469
110	0	0	0	1.134	24.83	1442	24.57	1456
120	0	0	0	1.134	25.05	1429	24.79	1444
130	0	0	0	1.134	25.26	1417	25	1431
167	0	0	0	1.134	26.06	1375	25.79	1389
212	0	0	0	1.134	26.67	1344	26.67	1344

* Design Condition

* Design Condition

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<div style="text-align: center;"> <p>SHEET</p> <p>277 OF 362</p> </div>	Indicates Latest Revision		Completely Revised	<div style="border: 1px solid black; padding: 2px;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.277</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 3000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1
100.00	0-8	0-9	0-11	1-1	1-3	1-4	1-6	1-8	1-9	1-10
125.00	1-0	1-2	1-5	1-8	1-11	2-2	2-4	2-7	2-9	2-11
150.00	1-5	1-9	2-1	2-5	2-9	3-1	3-5	3-8	3-11	4-2
175.00	1-11	2-4	2-10	3-4	3-9	4-2	4-7	5-0	5-4	5-9
200.00	2-6	3-1	3-8	4-4	4-11	5-6	6-0	6-6	7-0	7-6

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1
100.00	0-8	0-10	1-0	1-2	1-4	1-5	1-7	1-8	1-10	1-11
125.00	1-0	1-3	1-7	1-10	2-1	2-3	2-6	2-8	2-10	3-0
150.00	1-6	1-10	2-3	2-7	2-11	3-3	3-7	3-10	4-1	4-4
175.00	2-0	2-6	3-0	3-6	4-0	4-5	4-10	5-3	5-7	5-11
200.00	2-8	3-4	4-0	4-7	5-3	5-10	6-4	6-10	7-4	7-9

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	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 3000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3
125.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-11
150.00	1-10	1-11	2-1	2-2	2-3	2-5	2-6	2-7	2-8	2-10
175.00	2-6	2-8	2-10	3-0	3-1	3-3	3-5	3-7	3-8	3-10
200.00	3-3	3-5	3-8	3-10	4-1	4-3	4-5	4-8	4-10	5-0
225.00	4-1	4-4	4-8	4-11	5-2	5-5	5-8	5-10	6-1	6-4
250.00	5-0	5-5	5-9	6-1	6-4	6-8	6-11	7-3	7-6	7-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-2	1-3	1-3
125.00	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-10	1-11	2-0
150.00	1-11	2-0	2-2	2-3	2-5	2-6	2-7	2-8	2-9	2-11
175.00	2-7	2-9	2-11	3-1	3-3	3-5	3-6	3-8	3-10	3-11
200.00	3-5	3-7	3-10	4-0	4-3	4-5	4-7	4-9	5-0	5-2
225.00	4-3	4-7	4-10	5-1	5-4	5-7	5-10	6-1	6-3	6-6
250.00	5-4	5-8	6-0	6-4	6-7	6-11	7-2	7-6	7-9	8-0

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>279 OF 362</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.279</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 3000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-11	2-0	2-1	2-1	2-2	2-3	2-3	2-4	2-5	2-5
175.00	2-8	2-9	2-10	2-11	2-11	3-0	3-1	3-2	3-3	3-4
200.00	3-5	3-7	3-8	3-9	3-10	3-11	4-1	4-2	4-3	4-4
225.00	4-4	4-6	4-8	4-9	4-11	5-0	5-1	5-3	5-4	5-5
250.00	5-5	5-7	5-9	5-10	6-0	6-2	6-4	6-6	6-7	6-9
275.00	6-6	6-9	6-11	7-1	7-4	7-6	7-8	7-10	8-0	8-2
300.00	7-9	8-0	8-3	8-6	8-8	8-11	9-1	9-4	9-6	9-9
325.00	9-2	9-5	9-8	9-11	10-2	10-5	10-8	10-11	11-2	11-5
350.00	10-7	10-11	11-3	11-6	11-10	12-1	12-5	12-8	12-11	13-3
375.00	12-2	12-6	12-11	13-3	13-7	13-11	14-3	14-7	14-10	15-2

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-0	2-1	2-1	2-2	2-3	2-3	2-4	2-5	2-5	2-6
175.00	2-9	2-10	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-4
200.00	3-7	3-8	3-9	3-10	3-11	4-1	4-2	4-3	4-4	4-5
225.00	4-6	4-7	4-9	4-11	5-0	5-1	5-3	5-4	5-6	5-7
250.00	5-7	5-9	5-10	6-0	6-2	6-4	6-6	6-7	6-9	6-11
275.00	6-9	6-11	7-1	7-3	7-6	7-8	7-10	8-0	8-2	8-4
300.00	8-0	8-3	8-5	8-8	8-11	9-1	9-4	9-6	9-9	9-11
325.00	9-5	9-8	9-11	10-2	10-5	10-8	10-11	11-2	11-5	11-8
350.00	10-11	11-2	11-6	11-10	12-1	12-5	12-8	13-0	13-3	13-6
375.00	12-6	12-10	13-3	13-7	13-11	14-3	14-7	14-11	15-2	15-6

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SHEET 280 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.280
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 3000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-7	3-7	3-8	3-9	3-9	3-10	3-11	3-11	4-0	4-1
225.00	4-6	4-7	4-8	4-8	4-9	4-10	4-11	5-0	5-1	5-1
250.00	5-6	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4
275.00	6-8	6-10	6-11	7-0	7-2	7-3	7-4	7-5	7-7	7-8
300.00	8-0	8-1	8-3	8-4	8-6	8-8	8-9	8-10	9-0	9-1
325.00	9-4	9-6	9-8	9-10	10-0	10-2	10-3	10-5	10-7	10-8
350.00	10-10	11-1	11-3	11-5	11-7	11-9	11-11	12-1	12-3	12-5
375.00	12-6	12-8	12-11	13-1	13-3	13-6	13-8	13-10	14-1	14-3
400.00	14-2	14-5	14-8	14-11	15-1	15-4	15-7	15-9	16-0	16-3
425.00	16-0	16-4	16-7	16-10	17-1	17-4	17-7	17-10	18-1	18-4
450.00	18-0	18-3	18-7	18-10	19-2	19-5	19-9	20-0	20-3	20-6
475.00	20-0	20-4	20-8	21-0	21-4	21-8	22-0	22-3	22-7	22-11
500.00	22-2	22-7	22-11	23-4	23-8	24-0	24-4	24-8	25-0	25-4

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-7	3-8	3-9	3-9	3-10	3-11	3-11	4-0	4-1	4-1
225.00	4-7	4-8	4-9	4-9	4-10	4-11	5-0	5-1	5-2	5-2
250.00	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5
275.00	6-10	6-11	7-0	7-2	7-3	7-4	7-6	7-7	7-8	7-9
300.00	8-1	8-3	8-5	8-6	8-8	8-9	8-11	9-0	9-2	9-3
325.00	9-6	9-8	9-10	10-0	10-2	10-3	10-5	10-7	10-9	10-10
350.00	11-1	11-3	11-5	11-7	11-9	11-11	12-1	12-3	12-5	12-7
375.00	12-8	12-11	13-1	13-4	13-6	13-8	13-11	14-1	14-3	14-6
400.00	14-5	14-8	14-11	15-2	15-4	15-7	15-10	16-0	16-3	16-5
425.00	16-4	16-7	16-10	17-1	17-4	17-7	17-10	18-1	18-4	18-7
450.00	18-3	18-7	18-11	19-2	19-5	19-9	20-0	20-4	20-7	20-10
475.00	20-4	20-8	21-0	21-4	21-8	22-0	22-4	22-7	22-11	23-3
500.00	22-7	22-11	23-4	23-8	24-0	24-5	24-9	25-1	25-5	25-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 281 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.281
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 3000 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	3.378	17.4	1000	17.4	1000*
20	0	0	0	1.134	17.21	339	17.2	339
30	0	0	0	1.134	17.26	338	17.25	338
40	0	0	0	1.134	17.31	337	17.3	338
50	0	0	0	1.134	17.36	336	17.36	337
60	0	0	0	1.134	17.42	335	17.41	336
70	0	0	0	1.134	17.47	335	17.46	335
80	0	0	0	1.134	17.5	334	17.5	334
90	0	0	0	1.134	17.54	333	17.54	333
100	0	0	0	1.134	17.57	333	17.57	333
110	0	0	0	1.134	17.6	332	17.6	332
120	0	0	0	1.134	17.63	332	17.63	332
130	0	0	0	1.134	17.66	331	17.66	331
167	0	0	0	1.134	17.78	329	17.78	329
212	0	0	0	1.134	17.92	327	17.92	327
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 283 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.283
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	3.378	138.56	1000	138.56	1000*
20	0	0	0	1.134	138.37	336	138.37	336
30	0	0	0	1.134	138.42	336	138.42	336
40	0	0	0	1.134	138.47	336	138.46	336
50	0	0	0	1.134	138.52	336	138.51	336
60	0	0	0	1.134	138.57	336	138.56	336
70	0	0	0	1.134	138.62	336	138.61	336
80	0	0	0	1.134	138.66	336	138.66	336
90	0	0	0	1.134	138.69	336	138.69	336
100	0	0	0	1.134	138.72	336	138.72	336
110	0	0	0	1.134	138.75	336	138.75	336
120	0	0	0	1.134	138.78	335	138.78	335
130	0	0	0	1.134	138.81	335	138.81	335
167	0	0	0	1.134	138.92	335	138.92	335
212	0	0	0	1.134	139.06	335	139.06	335
* Design Condition								

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 285 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.285
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-3	2-4	2-4	2-4	2-5	2-5	2-5	2-6	2-6	2-6
100.00	4-1	4-1	4-2	4-2	4-3	4-4	4-4	4-5	4-5	4-5
125.00	6-4	6-5	6-6	6-7	6-8	6-9	6-10	6-10	6-11	6-11
150.00	9-2	9-3	9-5	9-6	9-7	9-9	9-10	9-11	10-0	10-0
175.00	12-5	12-7	12-9	12-11	13-1	13-3	13-5	13-6	13-7	13-8
200.00	16-4	16-6	16-9	16-11	17-2	17-4	17-7	17-8	17-10	17-11

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-3	2-4	2-4	2-4	2-5	2-5	2-5	2-6	2-6	2-6
100.00	4-1	4-1	4-2	4-3	4-3	4-4	4-4	4-5	4-5	4-5
125.00	6-4	6-5	6-6	6-7	6-8	6-9	6-10	6-10	6-11	6-11
150.00	9-2	9-3	9-5	9-6	9-8	9-9	9-10	9-11	10-0	10-0
175.00	12-6	12-8	12-10	13-0	13-2	13-4	13-5	13-6	13-7	13-8
200.00	16-4	16-7	16-9	17-0	17-2	17-5	17-7	17-8	17-10	17-11

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 286 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.286
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	10-0	10-0	10-0	10-0	10-0	10-1	10-1	10-1	10-1	10-1
175.00	13-7	13-8	13-8	13-8	13-8	13-8	13-9	13-9	13-9	13-9
200.00	17-10	17-10	17-10	17-11	17-11	17-11	17-11	18-0	18-0	18-0
225.00	22-7	22-8	22-8	22-8	22-9	22-9	22-9	22-10	22-10	22-10
250.00	28-0	28-1	28-1	28-1	28-2	28-2	28-3	28-3	28-3	28-3
275.00	34-0	34-1	34-1	34-2	34-2	34-3	34-3	34-4	34-4	34-4
300.00	40-8	40-8	40-9	40-9	40-10	40-11	40-11	41-0	41-0	41-0
325.00	47-11	47-11	48-0	48-1	48-1	48-2	48-3	48-3	48-4	48-4
350.00	55-9	55-10	55-11	56-0	56-1	56-2	56-2	56-3	56-3	56-4
375.00	64-4	64-5	64-6	64-7	64-8	64-9	64-10	64-10	64-11	65-0

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	10-0	10-0	10-0	10-0	10-0	10-1	10-1	10-1	10-1	10-1
175.00	13-7	13-8	13-8	13-8	13-8	13-8	13-9	13-9	13-9	13-9
200.00	17-10	17-10	17-10	17-11	17-11	17-11	17-11	18-0	18-0	18-0
225.00	22-8	22-8	22-8	22-9	22-9	22-9	22-9	22-10	22-10	22-10
250.00	28-0	28-1	28-1	28-2	28-2	28-2	28-3	28-3	28-3	28-3
275.00	34-0	34-1	34-1	34-2	34-2	34-3	34-3	34-4	34-4	34-4
300.00	40-8	40-8	40-9	40-10	40-10	40-11	40-11	41-0	41-0	41-0
325.00	47-11	47-11	48-0	48-1	48-2	48-2	48-3	48-3	48-4	48-4
350.00	55-9	55-10	55-11	56-0	56-1	56-2	56-2	56-3	56-3	56-4
375.00	64-4	64-5	64-6	64-7	64-8	64-9	64-10	64-10	64-11	65-0

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SHEET 288 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.288
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS					

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 292 OF 362		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH813.292	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS									

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	3.378	77.11	1500	77.11	1500*
20	0	0	0	1.134	76.79	505	76.78	505
30	0	0	0	1.134	76.87	505	76.86	505
40	0	0	0	1.134	76.95	504	76.93	505
50	0	0	0	1.134	77.03	504	77.01	504
60	0	0	0	1.134	77.11	504	77.09	504
70	0	0	0	1.134	77.18	503	77.16	503
80	0	0	0	1.134	77.26	503	77.24	503
90	0	0	0	1.134	77.34	502	77.32	502
100	0	0	0	1.134	77.39	502	77.39	502
110	0	0	0	1.134	77.44	502	77.44	502
120	0	0	0	1.134	77.48	502	77.48	502
130	0	0	0	1.134	77.53	501	77.53	501
167	0	0	0	1.134	77.71	500	77.71	500
212	0	0	0	1.134	77.92	499	77.92	499

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<div style="text-align: center;"> <p>SHEET</p> <p>293 OF 362</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.293</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 1500 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-9	2-9	2-10	2-10	2-10	2-10	2-10	2-11	2-11	2-11
125.00	4-4	4-4	4-4	4-5	4-5	4-6	4-6	4-6	4-7	4-7
150.00	6-3	6-3	6-4	6-4	6-5	6-5	6-6	6-6	6-7	6-7
175.00	8-6	8-6	8-7	8-8	8-8	8-9	8-10	8-11	8-11	9-0
200.00	11-1	11-2	11-3	11-4	11-5	11-6	11-6	11-7	11-8	11-9
225.00	14-0	14-1	14-3	14-4	14-5	14-6	14-7	14-9	14-10	14-10
250.00	17-4	17-6	17-7	17-8	17-10	17-11	18-1	18-2	18-4	18-4

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-9	2-9	2-10	2-10	2-10	2-10	2-11	2-11	2-11	2-11
125.00	4-4	4-4	4-5	4-5	4-5	4-6	4-6	4-6	4-7	4-7
150.00	6-3	6-3	6-4	6-4	6-5	6-5	6-6	6-6	6-7	6-7
175.00	8-6	8-6	8-7	8-8	8-9	8-9	8-10	8-11	8-11	9-0
200.00	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-8	11-9
225.00	14-1	14-2	14-3	14-4	14-5	14-7	14-8	14-9	14-10	14-10
250.00	17-4	17-6	17-7	17-9	17-10	18-0	18-1	18-3	18-4	18-4

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div>SHEET</div> <div>295 OF 362</div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	OH813.295
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS						

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-8	11-8	11-8	11-9	11-9	11-9	11-9	11-9	11-10	11-10
225.00	14-9	14-10	14-10	14-10	14-10	14-11	14-11	14-11	15-0	15-0
250.00	18-3	18-3	18-4	18-4	18-5	18-5	18-5	18-6	18-6	18-6
275.00	22-2	22-2	22-2	22-3	22-3	22-4	22-4	22-5	22-5	22-5
300.00	26-5	26-5	26-6	26-6	26-7	26-7	26-8	26-8	26-9	26-9
325.00	31-0	31-1	31-1	31-2	31-3	31-3	31-4	31-4	31-5	31-5
350.00	36-0	36-1	36-2	36-3	36-3	36-4	36-5	36-5	36-6	36-6
375.00	41-5	41-6	41-7	41-8	41-9	41-9	41-10	41-11	42-0	42-0
400.00	47-3	47-4	47-5	47-6	47-7	47-8	47-9	47-10	47-11	47-11
425.00	53-6	53-7	53-8	53-9	53-10	53-11	54-0	54-1	54-2	54-3
450.00	60-1	60-2	60-4	60-5	60-6	60-7	60-8	60-10	60-11	60-11
475.00	67-2	67-3	67-4	67-6	67-7	67-8	67-10	67-11	68-0	68-1
500.00	74-7	74-9	74-10	75-0	75-1	75-3	75-4	75-6	75-7	75-8

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-8	11-8	11-8	11-9	11-9	11-9	11-9	11-10	11-10	11-10
225.00	14-9	14-10	14-10	14-10	14-10	14-11	14-11	14-11	15-0	15-0
250.00	18-3	18-4	18-4	18-4	18-5	18-5	18-5	18-6	18-6	18-6
275.00	22-2	22-2	22-3	22-3	22-3	22-4	22-4	22-5	22-5	22-5
300.00	26-5	26-5	26-6	26-6	26-7	26-7	26-8	26-8	26-9	26-9
325.00	31-0	31-1	31-1	31-2	31-3	31-3	31-4	31-5	31-5	31-5
350.00	36-1	36-1	36-2	36-3	36-3	36-4	36-5	36-6	36-6	36-6
375.00	41-6	41-6	41-7	41-8	41-9	41-10	41-10	41-11	42-0	42-0
400.00	47-3	47-4	47-5	47-6	47-7	47-8	47-9	47-10	47-11	47-11
425.00	53-6	53-7	53-8	53-9	53-10	53-11	54-0	54-1	54-2	54-3
450.00	60-1	60-3	60-4	60-5	60-6	60-8	60-9	60-10	60-11	60-11
475.00	67-2	67-3	67-5	67-6	67-7	67-9	67-10	67-11	68-0	68-1
500.00	74-7	74-9	74-10	75-0	75-2	75-3	75-5	75-6	75-7	75-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div>SHEET</div> <div>297 OF 362</div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	OH813.297
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS						

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 300 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.300
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	3.378	55.37	2000	55.37	2000*
20	0	0	0	1.134	54.92	677	54.88	677
30	0	0	0	1.134	55.02	675	54.99	676
40	0	0	0	1.134	55.12	674	55.09	675
50	0	0	0	1.134	55.23	673	55.2	673
60	0	0	0	1.134	55.33	672	55.3	672
70	0	0	0	1.134	55.44	671	55.4	671
80	0	0	0	1.134	55.54	670	55.51	670
90	0	0	0	1.134	55.64	669	55.61	669
100	0	0	0	1.134	55.75	667	55.71	668
110	0	0	0	1.134	55.84	666	55.81	667
120	0	0	0	1.134	55.91	666	55.91	666
130	0	0	0	1.134	55.98	665	55.98	665
167	0	0	0	1.134	56.21	662	56.21	662
212	0	0	0	1.134	56.49	660	56.49	660

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>301 OF 362</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.301</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 2000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-0	2-0	2-1	2-1	2-1	2-2	2-2	2-2	2-2	2-3
125.00	3-1	3-2	3-2	3-3	3-3	3-4	3-4	3-5	3-5	3-6
150.00	4-6	4-7	4-7	4-8	4-9	4-10	4-10	4-11	5-0	5-0
175.00	6-2	6-3	6-3	6-4	6-5	6-6	6-7	6-8	6-9	6-10
200.00	8-0	8-1	8-3	8-4	8-5	8-6	8-8	8-9	8-10	8-11
225.00	10-2	10-3	10-5	10-7	10-8	10-10	10-11	11-1	11-2	11-4
250.00	12-6	12-8	12-10	13-0	13-2	13-4	13-6	13-8	13-10	14-0

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-0	2-0	2-1	2-1	2-1	2-2	2-2	2-2	2-3	2-3
125.00	3-2	3-2	3-3	3-3	3-4	3-4	3-5	3-5	3-6	3-6
150.00	4-6	4-7	4-8	4-8	4-9	4-10	4-10	4-11	5-0	5-0
175.00	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-9	6-9	6-10
200.00	8-0	8-2	8-3	8-4	8-6	8-7	8-8	8-9	8-10	8-11
225.00	10-2	10-4	10-5	10-7	10-9	10-10	11-0	11-1	11-3	11-4
250.00	12-7	12-9	12-11	13-1	13-3	13-5	13-7	13-9	13-11	14-0

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 303 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.303
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-6	8-6	8-7	8-7	8-7	8-8	8-8	8-8	8-9	8-9
225.00	10-9	10-10	10-10	10-11	10-11	10-11	11-0	11-0	11-0	11-1
250.00	13-4	13-4	13-5	13-5	13-6	13-6	13-7	13-7	13-8	13-8
275.00	16-2	16-2	16-3	16-3	16-4	16-5	16-5	16-6	16-6	16-7
300.00	19-3	19-3	19-4	19-5	19-5	19-6	19-7	19-7	19-8	19-9
325.00	22-7	22-8	22-9	22-9	22-10	22-11	23-0	23-1	23-1	23-2
350.00	26-3	26-3	26-4	26-5	26-6	26-7	26-8	26-9	26-10	26-11
375.00	30-1	30-3	30-4	30-5	30-6	30-7	30-8	30-9	30-10	30-11
400.00	34-4	34-5	34-6	34-7	34-9	34-10	34-11	35-0	35-2	35-3
425.00	38-9	38-11	39-0	39-2	39-3	39-4	39-6	39-7	39-9	39-10
450.00	43-6	43-8	43-10	43-11	44-1	44-2	44-4	44-6	44-7	44-9
475.00	48-7	48-9	48-10	49-0	49-2	49-4	49-6	49-7	49-9	49-11
500.00	53-11	54-1	54-3	54-5	54-7	54-9	54-11	55-1	55-3	55-5

Stringing Sag Table Using Final Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-6	8-7	8-7	8-7	8-8	8-8	8-8	8-8	8-9	8-9
225.00	10-10	10-10	10-10	10-11	10-11	10-11	11-0	11-0	11-1	11-1
250.00	13-4	13-5	13-5	13-5	13-6	13-6	13-7	13-7	13-8	13-8
275.00	16-2	16-2	16-3	16-4	16-4	16-5	16-5	16-6	16-6	16-7
300.00	19-3	19-4	19-4	19-5	19-6	19-6	19-7	19-8	19-8	19-9
325.00	22-7	22-8	22-9	22-10	22-10	22-11	23-0	23-1	23-2	23-2
350.00	26-3	26-4	26-5	26-6	26-7	26-8	26-9	26-9	26-10	26-11
375.00	30-2	30-3	30-4	30-5	30-6	30-7	30-8	30-9	30-11	31-0
400.00	34-4	34-5	34-7	34-8	34-9	34-10	35-0	35-1	35-2	35-3
425.00	38-10	38-11	39-1	39-2	39-3	39-5	39-6	39-8	39-9	39-10
450.00	43-7	43-8	43-10	44-0	44-1	44-3	44-4	44-6	44-8	44-9
475.00	48-7	48-9	48-11	49-1	49-3	49-4	49-6	49-8	49-10	49-11
500.00	53-11	54-1	54-3	54-5	54-7	54-9	54-11	55-1	55-3	55-5


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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 305 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.305
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	13-7	13-7	13-7	13-8	13-8	13-8	13-9	13-9	13-9	13-9
275.00	16-5	16-5	16-6	16-6	16-7	16-7	16-7	16-8	16-8	16-8
300.00	19-7	19-7	19-8	19-8	19-8	19-9	19-9	19-10	19-10	19-11
325.00	23-0	23-0	23-1	23-1	23-2	23-2	23-3	23-3	23-4	23-4
350.00	26-8	26-9	26-9	26-10	26-11	26-11	27-0	27-0	27-1	27-2
375.00	30-8	30-9	30-9	30-10	30-11	30-11	31-0	31-1	31-1	31-2
400.00	34-11	35-0	35-1	35-2	35-2	35-3	35-4	35-5	35-5	35-6
425.00	39-6	39-7	39-8	39-8	39-9	39-10	39-11	40-0	40-1	40-2
450.00	44-4	44-5	44-6	44-7	44-8	44-9	44-10	44-11	45-0	45-1
475.00	49-5	49-7	49-8	49-9	49-10	49-11	50-0	50-1	50-2	50-4
500.00	54-11	55-0	55-1	55-2	55-4	55-5	55-6	55-7	55-9	55-10
525.00	60-7	60-9	60-10	60-11	61-1	61-2	61-4	61-5	61-6	61-8
550.00	66-8	66-9	66-11	67-0	67-2	67-3	67-5	67-6	67-8	67-9
575.00	72-11	73-1	73-3	73-4	73-6	73-8	73-9	73-11	74-1	74-2
600.00	79-7	79-9	79-11	80-0	80-2	80-4	80-6	80-8	80-9	80-11
625.00	86-6	86-8	86-10	87-0	87-2	87-4	87-6	87-8	87-10	88-0

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<div style="text-align: center;"> <p>SHEET</p> <p>306 OF 362</p> </div>	Indicates Latest Revision	Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH813.306</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 2000 LBS</p> </div>					

* Design Condition

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 307 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.307
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	3.378	43.5	2500	43.5	2500*
20	0	0	0	1.134	42.88	851	42.83	852
30	0	0	0	1.134	43.01	848	42.96	849
40	0	0	0	1.134	43.14	846	43.09	847
50	0	0	0	1.134	43.27	844	43.22	844
60	0	0	0	1.134	43.4	841	43.35	842
70	0	0	0	1.134	43.53	839	43.48	840
80	0	0	0	1.134	43.66	836	43.61	837
90	0	0	0	1.134	43.79	834	43.74	835
100	0	0	0	1.134	43.92	832	43.86	833
110	0	0	0	1.134	44.05	830	43.99	831
120	0	0	0	1.134	44.18	827	44.12	828
130	0	0	0	1.134	44.28	825	44.25	826
167	0	0	0	1.134	44.58	820	44.58	820
212	0	0	0	1.134	44.92	814	44.92	814

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>309 OF 362</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH813.309</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 2500 LBS</p> </div>				

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-2
100.00	1-0	1-2	1-3	1-5	1-7	1-8	1-9	1-11	2-0	2-1
125.00	1-6	1-9	2-0	2-3	2-5	2-7	2-10	3-0	3-2	3-4
150.00	2-2	2-6	2-10	3-2	3-6	3-9	4-0	4-3	4-6	4-9
175.00	3-0	3-5	3-11	4-4	4-9	5-1	5-6	5-10	6-2	6-6
200.00	3-11	4-6	5-1	5-8	6-2	6-8	7-2	7-7	8-0	8-5

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-2
100.00	1-0	1-2	1-4	1-6	1-7	1-9	1-10	1-11	2-1	2-2
125.00	1-7	1-10	2-1	2-3	2-6	2-8	2-10	3-1	3-3	3-4
150.00	2-3	2-8	3-0	3-4	3-7	3-11	4-2	4-5	4-8	4-10
175.00	3-1	3-7	4-1	4-6	4-11	5-3	5-8	6-0	6-4	6-7
200.00	4-1	4-8	5-4	5-10	6-5	6-11	7-4	7-10	8-3	8-7

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 310 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.310
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span: 300.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-8	3-8	3-9	3-9	3-10	3-10	3-10	3-11	3-11	3-11
175.00	5-0	5-0	5-1	5-1	5-2	5-2	5-3	5-4	5-4	5-5
200.00	6-6	6-7	6-8	6-8	6-9	6-10	6-10	6-11	7-0	7-0
225.00	8-3	8-4	8-5	8-6	8-6	8-7	8-8	8-9	8-10	8-11
250.00	10-2	10-3	10-4	10-6	10-7	10-8	10-9	10-10	10-11	11-0
275.00	12-4	12-5	12-7	12-8	12-9	12-11	13-0	13-1	13-2	13-4
300.00	14-8	14-10	14-11	15-1	15-2	15-4	15-6	15-7	15-9	15-10
325.00	17-3	17-5	17-7	17-8	17-10	18-0	18-2	18-4	18-5	18-7
350.00	20-0	20-2	20-4	20-7	20-9	20-11	21-1	21-3	21-5	21-7
375.00	23-0	23-2	23-5	23-7	23-10	24-0	24-3	24-5	24-7	24-10

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-8	3-8	3-9	3-9	3-10	3-10	3-10	3-11	3-11	4-0
175.00	5-0	5-1	5-1	5-2	5-2	5-3	5-3	5-4	5-4	5-5
200.00	6-6	6-7	6-8	6-9	6-9	6-10	6-11	6-11	7-0	7-1
225.00	8-3	8-4	8-5	8-6	8-7	8-8	8-9	8-9	8-10	8-11
250.00	10-3	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-11	11-0
275.00	12-4	12-6	12-7	12-8	12-10	12-11	13-0	13-2	13-3	13-4
300.00	14-9	14-10	15-0	15-2	15-3	15-5	15-6	15-8	15-9	15-11
325.00	17-4	17-5	17-7	17-9	17-11	18-1	18-3	18-5	18-6	18-8
350.00	20-1	20-3	20-5	20-7	20-10	21-0	21-2	21-4	21-6	21-8
375.00	23-1	23-3	23-6	23-8	23-11	24-1	24-4	24-6	24-8	24-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>312 OF 362</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.312
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS									

* Design Condition

* Design Condition

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[illegible]

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	3.378	35.91	3000	35.91	3000*
20	0	0	0	1.134	35.11	1029	35.03	1031
30	0	0	0	1.134	35.27	1025	35.19	1027
40	0	0	0	1.134	35.43	1020	35.35	1023
50	0	0	0	1.134	35.58	1016	35.5	1018
60	0	0	0	1.134	35.74	1012	35.66	1014
70	0	0	0	1.134	35.9	1008	35.81	1010
80	0	0	0	1.134	36.05	1003	35.97	1006
90	0	0	0	1.134	36.21	999	36.12	1002
100	0	0	0	1.134	36.36	995	36.28	998
110	0	0	0	1.134	36.51	991	36.43	994
120	0	0	0	1.134	36.67	987	36.58	990
130	0	0	0	1.134	36.82	983	36.73	986
167	0	0	0	1.134	37.24	973	37.24	973
212	0	0	0	1.134	37.64	963	37.64	963

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>317 OF 362</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.317</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 3000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-6
125.00	1-10	1-11	2-0	2-1	2-1	2-2	2-3	2-3	2-4	2-5
150.00	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5
175.00	3-8	3-9	3-11	4-0	4-2	4-3	4-4	4-6	4-7	4-8
200.00	4-9	4-11	5-1	5-3	5-5	5-7	5-8	5-10	6-0	6-2
225.00	6-0	6-3	6-5	6-8	6-10	7-0	7-3	7-5	7-7	7-9
250.00	7-5	7-8	7-11	8-2	8-5	8-8	8-11	9-2	9-4	9-7

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-7
125.00	1-11	1-11	2-0	2-1	2-2	2-2	2-3	2-4	2-4	2-5
150.00	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6
175.00	3-8	3-10	3-11	4-1	4-2	4-4	4-5	4-6	4-8	4-9
200.00	4-10	5-0	5-2	5-4	5-6	5-8	5-9	5-11	6-1	6-3
225.00	6-1	6-4	6-6	6-9	6-11	7-2	7-4	7-6	7-8	7-10
250.00	7-6	7-10	8-1	8-4	8-7	8-10	9-1	9-3	9-6	9-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 319 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.319
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 3000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-0	3-0	3-1	3-1	3-1	3-2	3-2	3-3	3-3	3-4
175.00	4-0	4-1	4-2	4-2	4-3	4-4	4-4	4-5	4-5	4-6
200.00	5-3	5-4	5-5	5-6	5-7	5-7	5-8	5-9	5-10	5-11
225.00	6-8	6-9	6-10	6-11	7-0	7-1	7-2	7-3	7-4	7-5
250.00	8-3	8-4	8-6	8-7	8-8	8-9	8-11	9-0	9-1	9-2
275.00	10-0	10-1	10-3	10-4	10-6	10-8	10-9	10-11	11-0	11-2
300.00	11-10	12-0	12-2	12-4	12-6	12-8	12-10	13-0	13-1	13-3
325.00	13-11	14-2	14-4	14-6	14-8	14-10	15-1	15-3	15-5	15-7
350.00	16-2	16-5	16-7	16-10	17-0	17-3	17-6	17-8	17-10	18-1
375.00	18-7	18-10	19-1	19-4	19-7	19-10	20-1	20-3	20-6	20-9

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-0	3-0	3-1	3-1	3-2	3-2	3-3	3-3	3-4	3-4
175.00	4-1	4-1	4-2	4-3	4-3	4-4	4-5	4-5	4-6	4-6
200.00	5-4	5-5	5-5	5-6	5-7	5-8	5-9	5-9	5-10	5-11
225.00	6-9	6-10	6-11	7-0	7-1	7-2	7-3	7-4	7-5	7-6
250.00	8-3	8-5	8-6	8-8	8-9	8-10	8-11	9-1	9-2	9-3
275.00	10-0	10-2	10-4	10-5	10-7	10-8	10-10	11-0	11-1	11-3
300.00	11-11	12-1	12-3	12-5	12-7	12-9	12-11	13-1	13-2	13-4
325.00	14-0	14-3	14-5	14-7	14-9	15-0	15-2	15-4	15-6	15-8
350.00	16-3	16-6	16-9	16-11	17-2	17-4	17-7	17-9	18-0	18-2
375.00	18-8	18-11	19-2	19-5	19-8	19-11	20-2	20-5	20-8	20-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>320 OF 362</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH813.320
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING 1033.5 - 45/7 ACSR/AW TENSION 3000 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 324 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.324
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.378	138.56	1000	138.56	1000*
0	0	0	0	1.134	138.41	336	138.41	336
30	0	0	0	1.134	138.57	336	138.56	336
40	0	0	0	1.134	138.62	336	138.61	336
50	0	0	0	1.134	138.67	336	138.66	336
60	0	0	0	1.134	138.72	336	138.71	336
70	0	0	0	1.134	138.77	335	138.76	335
80	0	0	0	1.134	138.81	335	138.81	335
90	0	0	0	1.134	138.84	335	138.84	335
100	0	0	0	1.134	138.87	335	138.87	335
110	0	0	0	1.134	138.9	335	138.9	335
120	0	0	0	1.134	138.93	335	138.93	335
130	0	0	0	1.134	138.96	335	138.96	335
167	0	0	0	1.134	139.07	335	139.07	335
212	0	0	0	1.134	139.21	335	139.21	335
* Design Condition								

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>325 OF 362</p> </div>	Indicates Latest Revision		Completely Revised	<div style="border: 1px solid black; padding: 2px;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.325</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 1000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-4	2-5	2-5	2-5	2-6	2-6	2-6	2-7	2-7	2-7
100.00	4-2	4-3	4-4	4-4	4-5	4-6	4-6	4-6	4-7	4-7
125.00	6-7	6-8	6-9	6-10	6-11	7-0	7-0	7-1	7-2	7-2
150.00	9-6	9-7	9-9	9-10	10-0	10-1	10-2	10-3	10-4	10-4
175.00	12-11	13-1	13-3	13-5	13-7	13-9	13-10	13-11	14-0	14-2
200.00	16-11	17-2	17-4	17-7	17-9	18-0	18-2	18-3	18-5	18-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-4	2-5	2-5	2-5	2-6	2-6	2-6	2-7	2-7	2-7
100.00	4-3	4-3	4-4	4-4	4-5	4-6	4-6	4-6	4-7	4-7
125.00	6-7	6-8	6-9	6-10	6-11	7-0	7-0	7-1	7-2	7-2
150.00	9-6	9-8	9-9	9-10	10-0	10-1	10-2	10-3	10-4	10-4
175.00	13-0	13-2	13-4	13-5	13-7	13-9	13-10	13-11	14-0	14-2
200.00	17-0	17-2	17-5	17-7	17-10	18-0	18-2	18-3	18-5	18-6

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Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	4-4	4-4	4-4	4-4	4-4	4-4	4-5	4-5	4-5	4-5
125.00	6-9	6-9	6-9	6-10	6-10	6-10	6-10	6-10	6-11	6-11
150.00	9-9	9-9	9-9	9-10	9-10	9-10	9-11	9-11	9-11	9-11
175.00	13-3	13-4	13-4	13-5	13-5	13-5	13-6	13-6	13-6	13-7
200.00	17-4	17-5	17-6	17-6	17-7	17-7	17-8	17-8	17-9	17-9
225.00	22-0	22-1	22-2	22-3	22-3	22-4	22-5	22-5	22-6	22-6
250.00	27-3	27-4	27-5	27-6	27-7	27-8	27-9	27-10	27-10	27-11

Stringing Sag Table Using Final Sag							Ruling Span:	200.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	4-4	4-4	4-4	4-4	4-4	4-4	4-5	4-5	4-5	4-5
125.00	6-9	6-9	6-9	6-10	6-10	6-10	6-10	6-10	6-11	6-11
150.00	9-9	9-9	9-9	9-10	9-10	9-10	9-11	9-11	9-11	9-11
175.00	13-3	13-4	13-4	13-5	13-5	13-5	13-6	13-6	13-6	13-7
200.00	17-4	17-5	17-6	17-6	17-7	17-7	17-8	17-8	17-9	17-9
225.00	22-0	22-1	22-2	22-3	22-4	22-4	22-5	22-5	22-6	22-6
250.00	27-3	27-4	27-5	27-6	27-7	27-8	27-9	27-10	27-10	27-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 327 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.327
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	10-0	10-0	10-1	10-1	10-1	10-1	10-1	10-1	10-1	10-1
175.00	13-8	13-8	13-8	13-9	13-9	13-9	13-9	13-9	13-9	13-10
200.00	17-11	17-11	17-11	18-0	18-0	18-0	18-0	18-0	18-1	18-1
225.00	22-8	22-9	22-9	22-10	22-10	22-10	22-10	22-11	22-11	22-11
250.00	28-1	28-2	28-2	28-3	28-3	28-4	28-4	28-4	28-4	28-5
275.00	34-2	34-2	34-3	34-3	34-4	34-4	34-5	34-5	34-5	34-6
300.00	40-9	40-10	40-11	40-11	41-0	41-1	41-1	41-1	41-2	41-2
325.00	48-1	48-1	48-2	48-3	48-4	48-4	48-5	48-5	48-6	48-6
350.00	56-0	56-1	56-2	56-2	56-3	56-4	56-5	56-5	56-6	56-6
375.00	64-7	64-8	64-9	64-10	64-11	65-0	65-1	65-1	65-2	65-3

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	10-0	10-0	10-1	10-1	10-1	10-1	10-1	10-1	10-1	10-1
175.00	13-8	13-8	13-8	13-9	13-9	13-9	13-9	13-9	13-9	13-10
200.00	17-11	17-11	17-11	18-0	18-0	18-0	18-0	18-0	18-1	18-1
225.00	22-9	22-9	22-9	22-10	22-10	22-10	22-10	22-11	22-11	22-11
250.00	28-2	28-2	28-2	28-3	28-3	28-4	28-4	28-4	28-4	28-5
275.00	34-2	34-2	34-3	34-3	34-4	34-4	34-5	34-5	34-5	34-6
300.00	40-10	40-10	40-11	40-11	41-0	41-1	41-1	41-1	41-2	41-2
325.00	48-1	48-2	48-2	48-3	48-4	48-4	48-5	48-5	48-6	48-6
350.00	56-0	56-1	56-2	56-3	56-3	56-4	56-5	56-5	56-6	56-6
375.00	64-7	64-8	64-9	64-10	64-11	65-0	65-1	65-1	65-2	65-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
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SHEET 328 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.328
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	18-10	18-10	18-10	18-10	18-10	18-10	18-11	18-11	18-11	18-11
225.00	23-11	23-11	23-11	23-11	23-11	23-11	24-0	24-0	24-0	24-0
250.00	29-7	29-7	29-7	29-8	29-8	29-8	29-8	29-8	29-9	29-9
275.00	35-11	35-11	36-0	36-0	36-0	36-0	36-1	36-1	36-1	36-1
300.00	42-11	43-0	43-0	43-0	43-1	43-1	43-1	43-1	43-2	43-2
325.00	50-7	50-8	50-8	50-9	50-9	50-9	50-10	50-10	50-10	50-10
350.00	59-0	59-0	59-1	59-1	59-2	59-2	59-2	59-3	59-3	59-3
375.00	68-1	68-1	68-2	68-2	68-3	68-3	68-4	68-4	68-5	68-5
400.00	77-10	77-11	78-0	78-0	78-1	78-1	78-2	78-2	78-3	78-3
425.00	88-5	88-6	88-7	88-7	88-8	88-9	88-9	88-10	88-10	88-11
450.00	99-9	99-10	99-11	99-11	100-0	100-1	100-2	100-2	100-3	100-3
475.00	111-11	111-11	112-0	112-1	112-2	112-3	112-4	112-4	112-5	112-6
500.00	124-10	124-11	125-0	125-1	125-2	125-3	125-4	125-5	125-5	125-6

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	18-10	18-10	18-10	18-10	18-10	18-10	18-11	18-11	18-11	18-11
225.00	23-11	23-11	23-11	23-11	23-11	23-11	24-0	24-0	24-0	24-0
250.00	29-7	29-7	29-7	29-8	29-8	29-8	29-8	29-8	29-9	29-9
275.00	35-11	35-11	36-0	36-0	36-0	36-1	36-1	36-1	36-1	36-1
300.00	42-11	43-0	43-0	43-0	43-1	43-1	43-1	43-1	43-2	43-2
325.00	50-7	50-8	50-8	50-9	50-9	50-9	50-10	50-10	50-10	50-10
350.00	59-0	59-0	59-1	59-1	59-2	59-2	59-2	59-3	59-3	59-3
375.00	68-1	68-1	68-2	68-2	68-3	68-3	68-4	68-4	68-5	68-5
400.00	77-11	77-11	78-0	78-0	78-1	78-2	78-2	78-2	78-3	78-3
425.00	88-5	88-6	88-7	88-7	88-8	88-9	88-9	88-10	88-10	88-11
450.00	99-9	99-10	99-11	100-0	100-0	100-1	100-2	100-2	100-3	100-3
475.00	111-11	112-0	112-1	112-1	112-2	112-3	112-4	112-4	112-5	112-6
500.00	124-10	124-11	125-0	125-1	125-2	125-3	125-4	125-5	125-5	125-6

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 329 OF 362		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH813.329	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1000 LBS									

* Design Condition

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 332 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.332
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	3.378	77.11	1500	77.11	1500*
0	0	0	0	1.134	76.86	505	76.84	505
30	0	0	0	1.134	77.11	504	77.09	504
40	0	0	0	1.134	77.18	503	77.16	503
50	0	0	0	1.134	77.26	503	77.24	503
60	0	0	0	1.134	77.34	502	77.32	503
70	0	0	0	1.134	77.41	502	77.39	502
80	0	0	0	1.134	77.49	502	77.47	502
90	0	0	0	1.134	77.56	501	77.55	501
100	0	0	0	1.134	77.62	501	77.62	501
110	0	0	0	1.134	77.67	501	77.67	501
120	0	0	0	1.134	77.71	500	77.71	500
130	0	0	0	1.134	77.76	500	77.76	500
167	0	0	0	1.134	77.93	499	77.93	499
212	0	0	0	1.134	78.15	498	78.15	498
* Design Condition								

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>333 OF 362</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.333</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 1500 LBS</p> </div>					

Completely Revised

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1033.5 - 45/7 ACSR/AW TENSION 1500 LBS

OH813.333

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-10	2-10	2-10	2-10	2-11	2-11	2-11	2-11	3-0	3-0
125.00	4-5	4-5	4-6	4-6	4-6	4-7	4-7	4-7	4-8	4-8
150.00	6-4	6-5	6-5	6-6	6-6	6-7	6-7	6-8	6-8	6-8
175.00	8-8	8-8	8-9	8-10	8-11	8-11	9-0	9-1	9-1	9-2
200.00	11-4	11-5	11-6	11-6	11-7	11-8	11-9	11-10	11-11	11-11
225.00	14-4	14-5	14-6	14-7	14-9	14-10	14-11	15-0	15-1	15-2
250.00	17-8	17-10	17-11	18-1	18-2	18-4	18-5	18-7	18-8	18-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-10	2-10	2-10	2-11	2-11	2-11	2-11	2-11	3-0	3-0
125.00	4-5	4-5	4-6	4-6	4-6	4-7	4-7	4-7	4-8	4-8
150.00	6-4	6-5	6-5	6-6	6-6	6-7	6-7	6-8	6-8	6-8
175.00	8-8	8-9	8-9	8-10	8-11	8-11	9-0	9-1	9-1	9-2
200.00	11-4	11-5	11-6	11-7	11-8	11-9	11-9	11-10	11-11	11-11
225.00	14-4	14-5	14-7	14-8	14-9	14-10	14-11	15-0	15-1	15-2
250.00	17-9	17-10	18-0	18-1	18-3	18-4	18-6	18-7	18-8	18-9

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<div>SHEET</div> <div>335 OF 362</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.335
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-9	11-9	11-9	11-9	11-9	11-10	11-10	11-10	11-10	11-10
225.00	14-10	14-10	14-11	14-11	14-11	15-0	15-0	15-0	15-0	15-1
250.00	18-4	18-5	18-5	18-5	18-6	18-6	18-6	18-7	18-7	18-7
275.00	22-3	22-3	22-4	22-4	22-5	22-5	22-5	22-6	22-6	22-6
300.00	26-6	26-7	26-7	26-8	26-8	26-9	26-9	26-10	26-10	26-10
325.00	31-2	31-3	31-3	31-4	31-4	31-5	31-6	31-6	31-7	31-7
350.00	36-3	36-3	36-4	36-5	36-5	36-6	36-7	36-7	36-8	36-8
375.00	41-8	41-9	41-9	41-10	41-11	42-0	42-1	42-1	42-2	42-3
400.00	47-6	47-7	47-8	47-9	47-10	47-11	48-0	48-0	48-1	48-2
425.00	53-9	53-10	53-11	54-0	54-1	54-2	54-3	54-4	54-5	54-6
450.00	60-5	60-6	60-7	60-8	60-10	60-11	61-0	61-1	61-2	61-3
475.00	67-6	67-7	67-8	67-10	67-11	68-0	68-2	68-3	68-4	68-5
500.00	75-0	75-1	75-3	75-4	75-6	75-7	75-9	75-10	75-11	76-0

Stringing Sag Table Using Final Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-9	11-9	11-9	11-9	11-10	11-10	11-10	11-10	11-10	11-10
225.00	14-10	14-10	14-11	14-11	14-11	15-0	15-0	15-0	15-0	15-1
250.00	18-4	18-5	18-5	18-5	18-6	18-6	18-6	18-7	18-7	18-7
275.00	22-3	22-3	22-4	22-4	22-5	22-5	22-6	22-6	22-6	22-6
300.00	26-6	26-7	26-7	26-8	26-8	26-9	26-9	26-10	26-10	26-10
325.00	31-2	31-3	31-3	31-4	31-5	31-5	31-6	31-6	31-7	31-7
350.00	36-3	36-3	36-4	36-5	36-6	36-6	36-7	36-8	36-8	36-8
375.00	41-8	41-9	41-10	41-10	41-11	42-0	42-1	42-2	42-2	42-3
400.00	47-6	47-7	47-8	47-9	47-10	47-11	48-0	48-1	48-1	48-2
425.00	53-9	53-10	53-11	54-0	54-1	54-2	54-4	54-4	54-5	54-6
450.00	60-5	60-6	60-8	60-9	60-10	60-11	61-0	61-1	61-2	61-3
475.00	67-6	67-7	67-9	67-10	67-11	68-1	68-2	68-3	68-4	68-5
500.00	75-0	75-2	75-3	75-5	75-6	75-8	75-9	75-10	75-11	76-0

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SHEET 337 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.337
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 1500 LBS					

* Design Condition

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>339 OF 362</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.339</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 2000 LBS</p> </div>					

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	3.378	19.31	2000	19.31	2000*
0	0	0	0	1.134	18.95	684	18.92	685
30	0	0	0	1.134	19.27	673	19.24	674
40	0	0	0	1.134	19.38	669	19.34	671
50	0	0	0	1.134	19.48	666	19.44	667
60	0	0	0	1.134	19.58	663	19.55	664
70	0	0	0	1.134	19.69	659	19.65	660
80	0	0	0	1.134	19.79	656	19.75	657
90	0	0	0	1.134	19.89	653	19.85	654
100	0	0	0	1.134	19.99	650	19.95	651
110	0	0	0	1.134	20.06	647	20.05	648
120	0	0	0	1.134	20.14	645	20.14	645
130	0	0	0	1.134	20.2	643	20.2	643
167	0	0	0	1.134	20.42	636	20.42	636
212	0	0	0	1.134	20.68	628	20.68	628

* Design Condition

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	3.378	34.8	2000	34.8	2000*
0	0	0	0	1.134	34.44	678	34.4	679
30	0	0	0	1.134	34.76	672	34.72	673
40	0	0	0	1.134	34.86	670	34.83	671
50	0	0	0	1.134	34.97	668	34.93	669
60	0	0	0	1.134	35.07	667	35.03	667
70	0	0	0	1.134	35.17	665	35.14	665
80	0	0	0	1.134	35.28	663	35.24	664
90	0	0	0	1.134	35.38	661	35.34	662
100	0	0	0	1.134	35.48	659	35.44	660
110	0	0	0	1.134	35.56	658	35.54	658
120	0	0	0	1.134	35.64	657	35.64	657
130	0	0	0	1.134	35.7	656	35.7	656
167	0	0	0	1.134	35.93	652	35.93	652
212	0	0	0	1.134	36.2	647	36.2	647
* Design Condition								

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
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		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.378	55.37	2000	55.37	2000*
0	0	0	0	1.134	55.01	675	54.98	676
30	0	0	0	1.134	55.33	672	55.3	672
40	0	0	0	1.134	55.44	671	55.4	671
50	0	0	0	1.134	55.54	670	55.5	670
60	0	0	0	1.134	55.64	669	55.61	669
70	0	0	0	1.134	55.75	667	55.71	668
80	0	0	0	1.134	55.85	666	55.81	667
90	0	0	0	1.134	55.95	665	55.91	666
100	0	0	0	1.134	56.06	664	56.02	665
110	0	0	0	1.134	56.14	663	56.12	663
120	0	0	0	1.134	56.22	662	56.22	662
130	0	0	0	1.134	56.28	662	56.28	662
167	0	0	0	1.134	56.51	659	56.51	659
212	0	0	0	1.134	56.79	656	56.79	656
* Design Condition								

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	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-1	2-1	2-2	2-2	2-2	2-2	2-3	2-3	2-3	2-4
125.00	3-3	3-3	3-4	3-4	3-5	3-5	3-6	3-6	3-7	3-7
150.00	4-8	4-9	4-10	4-10	4-11	5-0	5-0	5-1	5-2	5-2
175.00	6-4	6-5	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-1
200.00	8-4	8-5	8-6	8-8	8-9	8-10	8-11	9-0	9-2	9-3
225.00	10-7	10-8	10-10	10-11	11-1	11-2	11-4	11-5	11-7	11-8
250.00	13-0	13-2	13-4	13-6	13-8	13-10	14-0	14-2	14-3	14-5

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-1	2-1	2-2	2-2	2-2	2-3	2-3	2-3	2-3	2-4
125.00	3-3	3-4	3-4	3-5	3-5	3-6	3-6	3-6	3-7	3-7
150.00	4-8	4-9	4-10	4-10	4-11	5-0	5-0	5-1	5-2	5-2
175.00	6-5	6-6	6-7	6-8	6-9	6-9	6-10	6-11	7-0	7-1
200.00	8-4	8-6	8-7	8-8	8-9	8-10	9-0	9-1	9-2	9-3
225.00	10-7	10-9	10-10	11-0	11-1	11-3	11-4	11-6	11-7	11-8
250.00	13-1	13-3	13-5	13-7	13-9	13-11	14-0	14-2	14-4	14-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>343 OF 362</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.343
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span:		300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-9	4-9	4-10	4-10	4-10	4-11	4-11	4-11	5-0	5-0
175.00	6-6	6-6	6-7	6-7	6-8	6-8	6-8	6-9	6-9	6-10
200.00	8-6	8-6	8-7	8-7	8-8	8-8	8-9	8-10	8-10	8-11
225.00	10-9	10-10	10-10	10-11	11-0	11-0	11-1	11-2	11-2	11-3
250.00	13-3	13-4	13-5	13-6	13-7	13-7	13-8	13-9	13-10	13-11
275.00	16-1	16-2	16-3	16-4	16-5	16-6	16-7	16-8	16-9	16-10
300.00	19-2	19-3	19-4	19-5	19-7	19-8	19-9	19-10	19-11	20-1
325.00	22-6	22-7	22-9	22-10	23-0	23-1	23-2	23-4	23-5	23-7
350.00	26-1	26-3	26-5	26-6	26-8	26-10	26-11	27-1	27-3	27-4
375.00	30-0	30-2	30-4	30-6	30-8	30-10	30-11	31-1	31-3	31-5

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-9	4-10	4-10	4-10	4-11	4-11	4-11	4-11	5-0	5-0
175.00	6-6	6-6	6-7	6-7	6-8	6-8	6-8	6-9	6-9	6-10
200.00	8-6	8-6	8-7	8-8	8-8	8-9	8-9	8-10	8-10	8-11
225.00	10-9	10-10	10-10	10-11	11-0	11-1	11-1	11-2	11-3	11-3
250.00	13-3	13-4	13-5	13-6	13-7	13-8	13-9	13-9	13-10	13-11
275.00	16-1	16-2	16-3	16-4	16-5	16-6	16-7	16-8	16-9	16-10
300.00	19-2	19-3	19-5	19-6	19-7	19-8	19-9	19-11	20-0	20-1
325.00	22-6	22-8	22-9	22-11	23-0	23-2	23-3	23-4	23-6	23-7
350.00	26-2	26-3	26-5	26-7	26-9	26-10	27-0	27-2	27-3	27-4
375.00	30-1	30-2	30-4	30-6	30-8	30-10	31-0	31-2	31-4	31-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 344 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH813.344
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS										

Stringing Sag Table Using Initial Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-7	8-7	8-8	8-8	8-8	8-9	8-9	8-9	8-10	8-10
225.00	10-11	10-11	10-11	11-0	11-0	11-0	11-1	11-1	11-2	11-2
250.00	13-5	13-6	13-6	13-7	13-7	13-8	13-8	13-9	13-9	13-10
275.00	16-3	16-4	16-5	16-5	16-6	16-6	16-7	16-7	16-8	16-9
300.00	19-5	19-5	19-6	19-7	19-7	19-8	19-9	19-9	19-10	19-11
325.00	22-9	22-10	22-11	23-0	23-1	23-1	23-2	23-3	23-4	23-5
350.00	26-5	26-6	26-7	26-8	26-9	26-10	26-11	27-0	27-1	27-2
375.00	30-5	30-6	30-7	30-8	30-9	30-10	30-11	31-0	31-1	31-2
400.00	34-7	34-9	34-10	34-11	35-0	35-2	35-3	35-4	35-5	35-7
425.00	39-2	39-3	39-4	39-6	39-7	39-9	39-10	39-11	40-1	40-2
450.00	43-11	44-1	44-2	44-4	44-5	44-7	44-9	44-10	45-0	45-1
475.00	49-0	49-2	49-4	49-6	49-7	49-9	49-11	50-1	50-2	50-4
500.00	54-5	54-7	54-9	54-11	55-1	55-3	55-4	55-6	55-8	55-10

Stringing Sag Table Using Final Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-7	8-8	8-8	8-8	8-8	8-9	8-9	8-9	8-10	8-10
225.00	10-11	10-11	10-11	11-0	11-0	11-1	11-1	11-1	11-2	11-2
250.00	13-5	13-6	13-6	13-7	13-7	13-8	13-8	13-9	13-9	13-10
275.00	16-4	16-4	16-5	16-5	16-6	16-6	16-7	16-8	16-8	16-9
300.00	19-5	19-6	19-6	19-7	19-8	19-8	19-9	19-10	19-10	19-11
325.00	22-10	22-10	22-11	23-0	23-1	23-2	23-2	23-3	23-4	23-5
350.00	26-6	26-7	26-8	26-9	26-9	26-10	26-11	27-0	27-1	27-2
375.00	30-5	30-6	30-7	30-8	30-9	30-11	31-0	31-1	31-2	31-3
400.00	34-8	34-9	34-10	35-0	35-1	35-2	35-3	35-5	35-6	35-7
425.00	39-2	39-3	39-5	39-6	39-8	39-9	39-11	40-0	40-1	40-2
450.00	44-0	44-1	44-3	44-4	44-6	44-8	44-9	44-11	45-0	45-2
475.00	49-1	49-3	49-4	49-6	49-8	49-10	49-11	50-1	50-3	50-4
500.00	54-5	54-7	54-9	54-11	55-1	55-3	55-5	55-7	55-9	55-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 345 OF 362	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH813.345
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2000 LBS					

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	3.378	27.53	2500	27.53	2500*
0	0	0	0	1.134	27.04	854	26.98	856
30	0	0	0	1.134	27.44	842	27.38	844
40	0	0	0	1.134	27.57	838	27.51	840
50	0	0	0	1.134	27.7	835	27.64	836
60	0	0	0	1.134	27.82	831	27.77	833
70	0	0	0	1.134	27.95	827	27.89	829
80	0	0	0	1.134	28.08	824	28.02	825
90	0	0	0	1.134	28.21	820	28.15	822
100	0	0	0	1.134	28.33	817	28.27	818
110	0	0	0	1.134	28.46	813	28.4	815
120	0	0	0	1.134	28.58	810	28.52	811
130	0	0	0	1.134	28.66	808	28.65	808
167	0	0	0	1.134	28.96	800	28.96	800
212	0	0	0	1.134	29.29	791	29.29	791

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 348 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH813.348
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS										

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	3.378	43.5	2500	43.5	2500*
0	0	0	0	1.134	43.01	848	42.95	849
30	0	0	0	1.134	43.4	841	43.35	842
40	0	0	0	1.134	43.53	839	43.48	840
50	0	0	0	1.134	43.66	836	43.61	837
60	0	0	0	1.134	43.79	834	43.73	835
70	0	0	0	1.134	43.92	832	43.86	833
80	0	0	0	1.134	44.05	830	43.99	831
90	0	0	0	1.134	44.18	827	44.12	828
100	0	0	0	1.134	44.31	825	44.24	826
110	0	0	0	1.134	44.43	823	44.37	824
120	0	0	0	1.134	44.56	821	44.5	822
130	0	0	0	1.134	44.64	819	44.62	820
167	0	0	0	1.134	44.95	814	44.95	814
212	0	0	0	1.134	45.29	808	45.29	808

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>349 OF 362</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH813.349
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span:	100.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-10	0-10	0-11	1-0	1-1	1-2	1-2	1-3	1-4	1-4
100.00	1-5	1-7	1-8	1-9	1-11	2-0	2-1	2-2	2-4	2-5
125.00	2-2	2-5	2-7	2-9	3-0	3-2	3-4	3-5	3-7	3-9
150.00	3-2	3-6	3-9	4-0	4-3	4-6	4-9	5-0	5-2	5-5
175.00	4-4	4-9	5-1	5-6	5-10	6-2	6-6	6-9	7-1	7-4
200.00	5-8	6-2	6-8	7-2	7-7	8-0	8-5	8-10	9-3	9-7

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-3	1-4	1-4
100.00	1-6	1-7	1-9	1-10	1-11	2-1	2-2	2-3	2-4	2-5
125.00	2-3	2-6	2-8	2-10	3-1	3-3	3-4	3-6	3-8	3-9
150.00	3-4	3-7	3-11	4-2	4-5	4-8	4-10	5-1	5-3	5-5
175.00	4-6	4-11	5-3	5-8	6-0	6-4	6-7	6-11	7-2	7-4
200.00	5-10	6-5	6-11	7-4	7-10	8-3	8-8	9-0	9-4	9-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>350 OF 362</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.350
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-7	1-8	1-8	1-9	1-9	1-9	1-10	1-10	1-10	1-11
125.00	2-6	2-7	2-8	2-8	2-9	2-9	2-10	2-11	2-11	3-0
150.00	3-8	3-9	3-10	3-10	3-11	4-0	4-1	4-2	4-3	4-3
175.00	5-0	5-1	5-2	5-3	5-4	5-6	5-7	5-8	5-9	5-10
200.00	6-6	6-8	6-9	6-11	7-0	7-2	7-3	7-4	7-6	7-7
225.00	8-3	8-5	8-7	8-9	8-11	9-0	9-2	9-4	9-6	9-8
250.00	10-2	10-4	10-7	10-9	11-0	11-2	11-4	11-6	11-9	11-11

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-8	1-8	1-8	1-9	1-9	1-10	1-10	1-10	1-11	1-11
125.00	2-7	2-7	2-8	2-9	2-9	2-10	2-10	2-11	2-11	3-0
150.00	3-8	3-9	3-10	3-11	4-0	4-1	4-1	4-2	4-3	4-4
175.00	5-0	5-1	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10
200.00	6-7	6-8	6-10	6-11	7-1	7-2	7-4	7-5	7-7	7-8
225.00	8-4	8-6	8-8	8-10	8-11	9-1	9-3	9-5	9-7	9-8
250.00	10-3	10-6	10-8	10-10	11-1	11-3	11-5	11-7	11-10	12-0

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-9	3-9	3-10	3-10	3-11	3-11	3-11	4-0	4-0	4-0
175.00	5-1	5-2	5-2	5-3	5-4	5-4	5-5	5-5	5-6	5-6
200.00	6-8	6-9	6-10	6-10	6-11	7-0	7-0	7-1	7-2	7-2
225.00	8-6	8-6	8-7	8-8	8-9	8-10	8-11	9-0	9-0	9-1
250.00	10-5	10-7	10-8	10-9	10-10	10-11	11-0	11-1	11-2	11-3
275.00	12-8	12-9	12-11	13-0	13-1	13-2	13-4	13-5	13-6	13-7
300.00	15-1	15-2	15-4	15-6	15-7	15-9	15-10	16-0	16-1	16-3
325.00	17-8	17-10	18-0	18-2	18-4	18-5	18-7	18-9	18-11	19-0
350.00	20-7	20-9	20-11	21-1	21-3	21-5	21-7	21-9	21-11	22-1
375.00	23-7	23-10	24-0	24-2	24-5	24-7	24-10	25-0	25-2	25-5

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-9	3-10	3-10	3-10	3-11	3-11	4-0	4-0	4-0	4-1
175.00	5-2	5-2	5-3	5-3	5-4	5-4	5-5	5-5	5-6	5-6
200.00	6-9	6-9	6-10	6-11	6-11	7-0	7-1	7-1	7-2	7-3
225.00	8-6	8-7	8-8	8-9	8-9	8-10	8-11	9-0	9-1	9-2
250.00	10-6	10-7	10-8	10-9	10-10	10-11	11-0	11-1	11-2	11-3
275.00	12-8	12-10	12-11	13-0	13-2	13-3	13-4	13-5	13-7	13-8
300.00	15-2	15-3	15-5	15-6	15-8	15-9	15-11	16-0	16-2	16-3
325.00	17-9	17-11	18-1	18-3	18-5	18-6	18-8	18-10	19-0	19-1
350.00	20-7	20-10	21-0	21-2	21-4	21-6	21-8	21-10	22-0	22-2
375.00	23-8	23-11	24-1	24-4	24-6	24-8	24-11	25-1	25-3	25-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 352 OF 362		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.352
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-9	6-10	6-10	6-11	6-11	6-11	7-0	7-0	7-0	7-1
225.00	8-7	8-8	8-8	8-8	8-9	8-9	8-10	8-10	8-11	8-11
250.00	10-7	10-8	10-8	10-9	10-10	10-10	10-11	10-11	11-0	11-1
275.00	12-10	12-11	13-0	13-0	13-1	13-2	13-2	13-3	13-4	13-5
300.00	15-3	15-4	15-5	15-6	15-7	15-8	15-9	15-9	15-10	15-11
325.00	17-11	18-0	18-1	18-2	18-3	18-4	18-5	18-6	18-7	18-8
350.00	20-10	20-11	21-0	21-2	21-3	21-4	21-5	21-6	21-7	21-8
375.00	23-11	24-1	24-2	24-3	24-5	24-6	24-7	24-9	24-10	24-11
400.00	27-3	27-5	27-6	27-8	27-9	27-11	28-0	28-2	28-3	28-5
425.00	30-9	30-11	31-1	31-3	31-4	31-6	31-8	31-10	31-11	32-1
450.00	34-7	34-9	34-10	35-0	35-2	35-4	35-6	35-8	35-10	36-0
475.00	38-6	38-8	38-11	39-1	39-3	39-5	39-7	39-10	40-0	40-2
500.00	42-9	42-11	43-2	43-4	43-6	43-9	43-11	44-2	44-4	44-6

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-10	6-10	6-10	6-11	6-11	6-11	7-0	7-0	7-1	7-1
225.00	8-7	8-8	8-8	8-9	8-9	8-10	8-10	8-11	8-11	9-0
250.00	10-8	10-8	10-9	10-9	10-10	10-11	10-11	11-0	11-0	11-1
275.00	12-10	12-11	13-0	13-1	13-1	13-2	13-3	13-3	13-4	13-5
300.00	15-4	15-5	15-6	15-6	15-7	15-8	15-9	15-10	15-11	16-0
325.00	18-0	18-1	18-2	18-3	18-4	18-5	18-6	18-7	18-8	18-9
350.00	20-11	21-0	21-1	21-2	21-3	21-4	21-6	21-7	21-8	21-9
375.00	24-0	24-1	24-3	24-4	24-5	24-7	24-8	24-9	24-11	25-0
400.00	27-4	27-5	27-7	27-8	27-10	27-11	28-1	28-2	28-4	28-6
425.00	30-10	31-0	31-2	31-3	31-5	31-7	31-9	31-10	32-0	32-2
450.00	34-7	34-9	34-11	35-1	35-3	35-5	35-7	35-9	35-11	36-1
475.00	38-7	38-9	39-0	39-2	39-4	39-6	39-8	39-11	40-1	40-3
500.00	42-10	43-0	43-3	43-5	43-8	43-10	44-0	44-3	44-5	44-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>353 OF 362</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH813.353
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 2500 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	3.378	5.65	3000	5.65	3000*
0	0	0	0	1.134	4.99	1139	4.91	1158
30	0	0	0	1.134	5.48	1038	5.4	1054
40	0	0	0	1.134	5.63	1010	5.55	1025
50	0	0	0	1.134	5.78	984	5.7	998
60	0	0	0	1.134	5.93	959	5.85	973
70	0	0	0	1.134	6.07	937	5.99	950
80	0	0	0	1.134	6.22	916	6.13	928
90	0	0	0	1.134	6.35	896	6.27	908
100	0	0	0	1.134	6.49	877	6.41	889
110	0	0	0	1.134	6.62	860	6.54	871
120	0	0	0	1.134	6.75	844	6.67	854
130	0	0	0	1.134	6.83	834	6.8	838
167	0	0	0	1.134	7.11	801	7.11	801
212	0	0	0	1.134	7.42	768	7.42	768
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>355 OF 362</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH813.355	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 3000 LBS									

Span = 500 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	3.378	35.91	3000	35.91	3000*
0	0	0	0	1.134	35.27	1025	35.19	1027
30	0	0	0	1.134	35.74	1012	35.66	1014
40	0	0	0	1.134	35.9	1008	35.81	1010
50	0	0	0	1.134	36.05	1003	35.97	1006
60	0	0	0	1.134	36.21	999	36.12	1002
70	0	0	0	1.134	36.36	995	36.27	998
80	0	0	0	1.134	36.51	991	36.42	994
90	0	0	0	1.134	36.67	987	36.58	990
100	0	0	0	1.134	36.82	983	36.73	986
110	0	0	0	1.134	36.97	980	36.88	982
120	0	0	0	1.134	37.12	976	37.03	978
130	0	0	0	1.134	37.27	972	37.18	974
167	0	0	0	1.134	37.67	962	37.67	962
212	0	0	0	1.134	38.07	952	38.07	952

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>357 OF 362</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.357</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 3000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-4	1-4	1-5	1-5	1-6	1-6	1-6	1-7	1-7	1-8
125.00	2-1	2-1	2-2	2-3	2-3	2-4	2-5	2-5	2-6	2-7
150.00	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8
175.00	4-0	4-2	4-3	4-4	4-6	4-7	4-8	4-10	4-11	5-0
200.00	5-3	5-5	5-7	5-8	5-10	6-0	6-2	6-3	6-5	6-6
225.00	6-8	6-10	7-0	7-3	7-5	7-7	7-9	7-11	8-1	8-3
250.00	8-2	8-5	8-8	8-11	9-2	9-4	9-7	9-10	10-0	10-3

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-4	1-4	1-5	1-5	1-6	1-6	1-7	1-7	1-7	1-8
125.00	2-1	2-2	2-2	2-3	2-4	2-4	2-5	2-6	2-6	2-7
150.00	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
175.00	4-1	4-2	4-4	4-5	4-6	4-8	4-9	4-10	5-0	5-1
200.00	5-4	5-6	5-8	5-9	5-11	6-1	6-3	6-4	6-6	6-7
225.00	6-9	6-11	7-2	7-4	7-6	7-8	7-10	8-1	8-3	8-5
250.00	8-4	8-7	8-10	9-1	9-3	9-6	9-9	9-11	10-2	10-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>359 OF 362</p> </div>	Indicates Latest Revision		Completely Revised	<div style="border: 1px solid black; padding: 2px;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH813.359</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING</p> <p>1033.5 - 45/7 ACSR/AW TENSION 3000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-7	5-7	5-8	5-8	5-9	5-9	5-10	5-10	5-11	5-11
225.00	7-1	7-1	7-2	7-3	7-3	7-4	7-4	7-5	7-5	7-6
250.00	8-9	8-9	8-10	8-11	9-0	9-0	9-1	9-2	9-2	9-3
275.00	10-7	10-8	10-9	10-9	10-10	10-11	11-0	11-1	11-2	11-2
300.00	12-7	12-8	12-9	12-10	12-11	13-0	13-1	13-2	13-3	13-4
325.00	14-9	14-10	15-0	15-1	15-2	15-3	15-4	15-6	15-7	15-8
350.00	17-2	17-3	17-4	17-6	17-7	17-9	17-10	17-11	18-1	18-2
375.00	19-8	19-10	19-11	20-1	20-3	20-4	20-6	20-7	20-9	20-11
400.00	22-5	22-7	22-9	22-10	23-0	23-2	23-4	23-6	23-7	23-9
425.00	25-4	25-6	25-8	25-10	26-0	26-2	26-4	26-6	26-8	26-10
450.00	28-5	28-7	28-9	29-0	29-2	29-4	29-7	29-9	29-11	30-1
475.00	31-8	31-10	32-1	32-4	32-6	32-9	32-11	33-2	33-4	33-7
500.00	35-1	35-4	35-7	35-10	36-1	36-4	36-6	36-9	37-0	37-3

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-7	5-8	5-8	5-9	5-9	5-10	5-10	5-10	5-11	5-11
225.00	7-1	7-2	7-2	7-3	7-3	7-4	7-5	7-5	7-6	7-6
250.00	8-9	8-10	8-11	8-11	9-0	9-1	9-1	9-2	9-3	9-4
275.00	10-7	10-8	10-9	10-10	10-11	11-0	11-0	11-1	11-2	11-3
300.00	12-7	12-9	12-10	12-11	13-0	13-1	13-2	13-3	13-4	13-5
325.00	14-10	14-11	15-0	15-2	15-3	15-4	15-5	15-6	15-8	15-9
350.00	17-2	17-4	17-5	17-7	17-8	17-9	17-11	18-0	18-2	18-3
375.00	19-9	19-11	20-0	20-2	20-4	20-5	20-7	20-8	20-10	21-0
400.00	22-6	22-8	22-10	22-11	23-1	23-3	23-5	23-7	23-9	23-10
425.00	25-5	25-7	25-9	25-11	26-1	26-3	26-5	26-7	26-9	26-11
450.00	28-6	28-8	28-11	29-1	29-3	29-6	29-8	29-10	30-1	30-3
475.00	31-9	32-0	32-2	32-5	32-8	32-10	33-1	33-3	33-6	33-9
500.00	35-3	35-6	35-8	35-11	36-2	36-5	36-8	36-11	37-2	37-5

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>361 OF 362</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH813.361
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING 1033.5 - 45/7 ACSR/AW TENSION 3000 LBS									

SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR #2 - 5/2 AWAC CONDUCTOR.

G.O. 95 LIGHT LOADING CONDITION

1200 LB TENSION -----	814.2
1600 LB TENSION -----	814.10

G.O. 95 HEAVY LOADING CONDITION

1600 LB TENSION -----	814.18
1800 LB TENSION -----	814.26

SDG&E EXTRA HEAVY LOADING CONDITION

1600 LB TENSION -----	814.34
1800 LB TENSION -----	814.42

65 MPH LIGHT KNOWN LOCAL WIND CONDITION

1200 LB TENSION -----	814.50
1600 LB TENSION -----	814.58

65 MPH HEAVY KNOWN LOCAL WIND CONDITION

1600 LB TENSION -----	814.66
1800 LB TENSION -----	814.74

85 MPH LIGHT KNOWN LOCAL WIND CONDITION

1200 LB TENSION -----	814.82
1600 LB TENSION -----	814.90

85 MPH HEAVY KNOWN LOCAL WIND CONDITION

1600 LB TENSION -----	814.98
1800 LB TENSION -----	814.106

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

1200 LB TENSION -----	814.114
1600 LB TENSION -----	814.122

111 MPH HEAVY KNOWN LOCAL WIND CONDITION

1600 LB TENSION -----	814.130
1800 LB TENSION -----	814.138

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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SHEET 1 OF 145	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH814.1
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	#2 - 5/2 AWAC TABLE OF CONTENTS					

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.246	1.19	1038	1.03	1200*
25	0	0	0	0.111	0.57	979	0.48	1167
30	0	0	0	0.111	0.60	932	0.49	1132
40	0	0	0	0.111	0.66	838	0.52	1062
50	0	0	0	0.111	0.74	747	0.56	990
60	0	0	0	0.111	0.84	657	0.60	918
70	0	0	0	0.111	0.97	572	0.66	846
80	0	0	0	0.111	1.13	492	0.72	773
90	0	0	0	0.111	1.32	420	0.79	701
100	0	0	0	0.111	1.55	358	0.88	630
110	0	0	0	0.111	1.81	307	0.99	560
120	0	0	0	0.111	2.08	267	1.13	493
130	0	0	0	0.111	2.36	235	1.29	431
167	0	0	0	0.111	3.31	168	2.13	260
212	0	0	0	0.111	4.29	130	3.27	170

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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SHEET 2 OF 145	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH814.2
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING #2 - 5/2 AWAC TENSION 1200 LBS					

Span =		400		ft				
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.246	4.52	1090	4.11	1200*
25	0	0	0	0.111	2.48	895	2.07	1075
30	0	0	0	0.111	2.60	854	2.13	1041
40	0	0	0	0.111	2.86	776	2.28	975
50	0	0	0	0.111	3.16	702	2.44	908
60	0	0	0	0.111	3.50	635	2.63	843
70	0	0	0	0.111	3.87	574	2.85	780
80	0	0	0	0.111	4.27	520	3.09	718
90	0	0	0	0.111	4.69	474	3.37	660
100	0	0	0	0.111	5.12	434	3.67	605
110	0	0	0	0.111	5.56	399	4.01	554
120	0	0	0	0.111	6.00	370	4.37	508
130	0	0	0	0.111	6.43	345	4.75	467
167	0	0	0	0.111	7.95	280	6.26	355
212	0	0	0	0.111	9.60	232	8.04	276
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>3 OF 145</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH814.3</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING</p> <p>#2 - 5/2 AWAC TENSION 1200 LBS</p> </div>						

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.246	6.93	1112	6.42	1200*
25	0	0	0	0.111	4.12	842	3.43	1012
30	0	0	0	0.111	4.30	806	3.54	980
40	0	0	0	0.111	4.69	739	3.78	917
50	0	0	0	0.111	5.12	678	4.05	856
60	0	0	0	0.111	5.58	622	4.35	798
70	0	0	0	0.111	6.06	573	4.68	741
80	0	0	0	0.111	6.56	529	5.04	688
90	0	0	0	0.111	7.06	492	5.43	639
100	0	0	0	0.111	7.57	458	5.85	593
110	0	0	0	0.111	8.08	430	6.29	552
120	0	0	0	0.111	8.58	405	6.75	514
130	0	0	0	0.111	9.08	383	7.22	481
167	0	0	0	0.111	10.82	321	8.98	387
212	0	0	0	0.111	12.74	273	11.02	315

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 4 OF 145		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH814.4
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING #2 - 5/2 AWAC TENSION 1200 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
100.00	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-5
150.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7
175.00	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9
200.00	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	1-0

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-4
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-7
125.00	0-2	0-3	0-3	0-3	0-4	0-5	0-5	0-7	0-8	0-11
150.00	0-4	0-4	0-4	0-5	0-6	0-7	0-8	0-10	1-0	1-4
175.00	0-5	0-5	0-6	0-7	0-8	0-9	0-11	1-1	1-5	1-9
200.00	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-5	1-10	2-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 5 OF 145		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH814.5
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING #2 - 5/2 AWAC TENSION 1200 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-5
150.00	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-7
175.00	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9
200.00	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-11	1-0
225.00	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-3
250.00	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-3	1-5	1-7

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-5
125.00	0-3	0-3	0-3	0-3	0-4	0-5	0-5	0-6	0-7	0-8
150.00	0-4	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10	1-0
175.00	0-5	0-5	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-5
200.00	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-4	1-7	1-10
225.00	0-8	0-9	0-10	0-11	1-1	1-3	1-5	1-8	2-0	2-3
250.00	0-10	0-11	1-0	1-2	1-4	1-6	1-9	2-1	2-5	2-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET 6 OF 145</div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH814.6
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING #2 - 5/2 AWAC TENSION 1200 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-7
175.00	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9
200.00	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0
225.00	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-2	1-3
250.00	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7
275.00	0-11	1-0	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-11
300.00	1-1	1-2	1-3	1-4	1-5	1-6	1-8	1-10	2-0	2-3
325.00	1-3	1-4	1-5	1-6	1-8	1-10	2-0	2-2	2-4	2-8
350.00	1-6	1-7	1-8	1-9	1-11	2-1	2-3	2-6	2-9	3-1
375.00	1-8	1-9	1-11	2-1	2-2	2-5	2-7	2-10	3-2	3-6

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-10
175.00	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-2
200.00	0-7	0-7	0-8	0-9	0-10	1-0	1-1	1-3	1-5	1-7
225.00	0-9	0-9	0-10	1-0	1-1	1-3	1-5	1-7	1-9	1-11
250.00	0-11	1-0	1-1	1-2	1-4	1-6	1-9	1-11	2-2	2-5
275.00	1-1	1-2	1-4	1-5	1-7	1-10	2-1	2-4	2-7	2-11
300.00	1-3	1-5	1-6	1-9	1-11	2-2	2-6	2-9	3-1	3-6
325.00	1-6	1-8	1-10	2-0	2-3	2-7	2-11	3-3	3-8	4-1
350.00	1-9	1-11	2-1	2-4	2-8	3-0	3-4	3-9	4-3	4-9
375.00	2-0	2-2	2-5	2-8	3-0	3-5	3-10	4-4	4-11	5-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 7 OF 145	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH814.7
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING #2 - 5/2 AWAC TENSION 1200 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-0
225.00	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3
250.00	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-4	1-5	1-7
275.00	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-9	1-11
300.00	1-2	1-2	1-3	1-4	1-6	1-7	1-9	1-11	2-1	2-3
325.00	1-4	1-5	1-6	1-7	1-9	1-11	2-0	2-3	2-5	2-8
350.00	1-6	1-8	1-9	1-10	2-0	2-2	2-4	2-7	2-10	3-1
375.00	1-9	1-10	2-0	2-2	2-4	2-6	2-9	2-11	3-3	3-6
400.00	2-0	2-2	2-3	2-5	2-8	2-10	3-1	3-4	3-8	4-0
425.00	2-3	2-5	2-7	2-9	3-0	3-3	3-6	3-10	4-2	4-6
450.00	2-6	2-8	2-11	3-1	3-4	3-7	3-11	4-3	4-8	5-1
475.00	2-10	3-0	3-3	3-5	3-9	4-0	4-4	4-9	5-2	5-8
500.00	3-2	3-4	3-7	3-10	4-1	4-5	4-10	5-3	5-9	6-3

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-7	0-8	0-9	0-9	0-10	1-0	1-1	1-2	1-3	1-5
225.00	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-6	1-7	1-9
250.00	0-11	1-0	1-1	1-3	1-4	1-6	1-8	1-10	2-0	2-2
275.00	1-1	1-3	1-4	1-6	1-8	1-10	2-0	2-3	2-5	2-8
300.00	1-4	1-6	1-7	1-9	2-0	2-2	2-5	2-8	2-11	3-2
325.00	1-7	1-9	1-11	2-1	2-4	2-7	2-10	3-1	3-5	3-8
350.00	1-10	2-0	2-2	2-5	2-8	3-0	3-3	3-7	3-11	4-3
375.00	2-1	2-3	2-6	2-9	3-1	3-5	3-9	4-1	4-6	4-11
400.00	2-4	2-7	2-10	3-2	3-6	3-10	4-3	4-8	5-1	5-7
425.00	2-8	2-11	3-3	3-7	3-11	4-4	4-10	5-4	5-9	6-3
450.00	3-0	3-3	3-7	4-0	4-5	4-11	5-5	5-11	6-6	7-0
475.00	3-4	3-8	4-0	4-5	4-11	5-5	6-0	6-7	7-3	7-10
500.00	3-8	4-1	4-6	4-11	5-6	6-1	6-8	7-4	8-0	8-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div>SHEET</div> <div>8 OF 145</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH814.8
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING #2 - 5/2 AWAC TENSION 1200 LBS					

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.246	0.94	1308	0.77	1600*
25	0	0	0	0.111	0.44	1270	0.35	1583
30	0	0	0	0.111	0.45	1222	0.36	1551
40	0	0	0	0.111	0.49	1126	0.37	1486
50	0	0	0	0.111	0.54	1031	0.39	1421
60	0	0	0	0.111	0.59	936	0.41	1354
70	0	0	0	0.111	0.66	843	0.43	1286
80	0	0	0	0.111	0.74	751	0.46	1217
90	0	0	0	0.111	0.84	661	0.48	1147
100	0	0	0	0.111	0.96	575	0.52	1076
110	0	0	0	0.111	1.12	495	0.55	1005
120	0	0	0	0.111	1.31	423	0.59	933
130	0	0	0	0.111	1.54	360	0.64	861
167	0	0	0	0.111	2.54	219	0.93	595
212	0	0	0	0.111	3.65	152	1.70	326

* Design Condition

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Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.246	5.54	1391	4.81	1600*
25	0	0	0	0.111	2.90	1198	2.32	1498
30	0	0	0	0.111	3.01	1154	2.37	1466
40	0	0	0	0.111	3.24	1069	2.47	1402
50	0	0	0	0.111	3.51	987	2.59	1338
60	0	0	0	0.111	3.82	908	2.72	1274
70	0	0	0	0.111	4.16	834	2.87	1209
80	0	0	0	0.111	4.54	765	3.03	1144
90	0	0	0	0.111	4.95	701	3.21	1079
100	0	0	0	0.111	5.40	643	3.42	1015
110	0	0	0	0.111	5.87	591	3.64	952
120	0	0	0	0.111	6.36	546	3.90	890
130	0	0	0	0.111	6.86	506	4.18	830
167	0	0	0	0.111	8.74	397	5.49	632
212	0	0	0	0.111	10.87	320	7.52	462

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>12 OF 145</h2> </div>		Indicates Latest Revision		Completely Revised	X	New Page	Information Removed		OH814.12		
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING #2 - 5/2 AWAC TENSION 1600 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3
150.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5
200.00	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-7

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
100.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-5	0-6
150.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7	0-8
175.00	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-11
200.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0	1-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 13 OF 145	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH814.13
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING #2 - 5/2 AWAC TENSION 1600 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3
150.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5
200.00	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-7
225.00	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8
250.00	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-3
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-5	0-5
150.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7	0-8
175.00	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-8	0-9	0-10
200.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0	1-1
225.00	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-1	1-3	1-5
250.00	0-8	0-9	0-9	0-10	0-11	1-0	1-2	1-4	1-6	1-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 14 OF 145	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH814.14
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING #2 - 5/2 AWAC TENSION 1600 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5
200.00	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7
225.00	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-9
250.00	0-7	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10
275.00	0-8	0-8	0-9	0-9	0-9	0-10	0-11	0-11	1-0	1-1
300.00	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3
325.00	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6
350.00	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-9
375.00	1-3	1-3	1-4	1-5	1-6	1-6	1-8	1-9	1-10	2-0

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-6	0-7
175.00	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-8	0-9	0-10
200.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-1
225.00	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-1	1-2	1-4
250.00	0-8	0-9	0-9	0-10	0-11	1-0	1-2	1-3	1-5	1-8
275.00	0-10	0-10	0-11	1-0	1-2	1-3	1-5	1-7	1-9	2-0
300.00	1-0	1-0	1-1	1-3	1-4	1-6	1-8	1-10	2-1	2-4
325.00	1-2	1-3	1-4	1-5	1-7	1-9	1-11	2-2	2-5	2-9
350.00	1-4	1-5	1-6	1-8	1-10	2-0	2-3	2-6	2-10	3-3
375.00	1-6	1-7	1-9	1-11	2-1	2-4	2-7	2-11	3-3	3-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>15 OF 145</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH814.15
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING #2 - 5/2 AWAC TENSION 1600 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7
225.00	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9
250.00	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-11
275.00	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1
300.00	0-10	0-10	0-10	0-11	0-11	1-0	1-1	1-2	1-2	1-3
325.00	0-11	1-0	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6
350.00	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-6	1-8	1-9
375.00	1-3	1-4	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-0
400.00	1-5	1-6	1-7	1-7	1-8	1-9	1-11	2-0	2-2	2-3
425.00	1-7	1-8	1-9	1-10	1-11	2-0	2-2	2-3	2-5	2-7
450.00	1-10	1-10	1-11	2-1	2-2	2-3	2-5	2-6	2-8	2-11
475.00	2-0	2-1	2-2	2-3	2-5	2-6	2-8	2-10	3-0	3-3
500.00	2-3	2-4	2-5	2-6	2-8	2-10	2-11	3-2	3-4	3-7

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0
225.00	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2	1-3
250.00	0-8	0-9	0-10	0-10	0-11	1-0	1-2	1-3	1-5	1-7
275.00	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-10
300.00	1-0	1-1	1-2	1-3	1-4	1-6	1-8	1-10	2-0	2-3
325.00	1-2	1-3	1-4	1-6	1-7	1-9	1-11	2-2	2-4	2-7
350.00	1-4	1-5	1-7	1-8	1-10	2-0	2-3	2-6	2-9	3-0
375.00	1-6	1-8	1-9	1-11	2-1	2-4	2-7	2-10	3-2	3-6
400.00	1-9	1-11	2-0	2-3	2-5	2-8	2-11	3-3	3-7	3-11
425.00	2-0	2-1	2-4	2-6	2-9	3-0	3-4	3-8	4-0	4-5
450.00	2-2	2-5	2-7	2-10	3-1	3-4	3-8	4-1	4-6	5-0
475.00	2-5	2-8	2-10	3-1	3-5	3-9	4-1	4-7	5-0	5-7
500.00	2-9	2-11	3-2	3-5	3-9	4-2	4-7	5-1	5-7	6-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 16 OF 145	Indicates Latest Revision Completely Revised X New Page Information Removed									OH814.16
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
	STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING #2 - 5/2 AWAC TENSION 1600 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	0.914	2.86	1600	2.86	1600*
0.0	0.00	0.00	0.00	0.111	0.48	1168	0.43	1306
30.0	0.00	0.00	0.00	0.111	0.63	883	0.51	1097
40.0	0.00	0.00	0.00	0.111	0.70	790	0.54	1026
50.0	0.00	0.00	0.00	0.111	0.79	699	0.58	954
60.0	0.00	0.00	0.00	0.111	0.91	612	0.63	882
70.0	0.00	0.00	0.00	0.111	1.05	529	0.69	810
80.0	0.00	0.00	0.00	0.111	1.23	453	0.75	737
90.0	0.00	0.00	0.00	0.111	1.44	386	0.83	665
100.0	0.00	0.00	0.00	0.111	1.68	330	0.93	595
110.0	0.00	0.00	0.00	0.111	1.95	284	1.05	526
120.0	0.00	0.00	0.00	0.111	2.23	249	1.20	461
130.0	0.00	0.00	0.00	0.111	2.50	222	1.38	402
167.0	0.00	0.00	0.00	0.111	3.44	162	2.26	245
212.0	0.00	0.00	0.00	0.111	4.39	127	3.38	164

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>18 OF 145</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH814.18</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING</p> <p>#2 - 5/2 AWAC TENSION 1600 LBS</p> </div>					

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div>SHEET</div> <div>19 OF 145</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div>OH814.19</div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING #2 - 5/2 AWAC TENSION 1600 LBS					

Span = 500 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	0.914	17.94	1600	17.94	1600*
0.0	0.00	0.00	0.00	0.111	12.98	268	11.12	313
30.0	0.00	0.00	0.00	0.111	14.14	246	12.37	281
40.0	0.00	0.00	0.00	0.111	14.51	240	12.77	272
50.0	0.00	0.00	0.00	0.111	14.87	234	13.16	264
60.0	0.00	0.00	0.00	0.111	15.22	229	13.55	257
70.0	0.00	0.00	0.00	0.111	15.57	224	13.92	250
80.0	0.00	0.00	0.00	0.111	15.91	219	14.29	243
90.0	0.00	0.00	0.00	0.111	16.25	214	14.66	238
100.0	0.00	0.00	0.00	0.111	16.58	210	15.01	232
110.0	0.00	0.00	0.00	0.111	16.90	206	15.36	227
120.0	0.00	0.00	0.00	0.111	17.22	202	15.70	222
130.0	0.00	0.00	0.00	0.111	17.53	199	16.04	217
167.0	0.00	0.00	0.00	0.111	18.65	187	17.23	202
212.0	0.00	0.00	0.00	0.111	19.93	175	18.59	188

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 20 OF 145	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH814.20
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING #2 - 5/2 AWAC TENSION 1600 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span:	100.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
150.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7
200.00	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3
100.00	0-1	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5
125.00	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-8
150.00	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-8	0-9	1-0
175.00	0-4	0-5	0-5	0-6	0-7	0-7	0-9	0-10	1-1	1-4
200.00	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-4	1-9

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Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
125.00	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5
150.00	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7
175.00	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10
200.00	0-6	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-1
225.00	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-1	1-2	1-4
250.00	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-6
125.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9
150.00	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-10	0-11	1-1
175.00	0-5	0-6	0-6	0-7	0-8	0-10	0-11	1-1	1-3	1-6
200.00	0-7	0-8	0-8	0-10	0-11	1-1	1-3	1-5	1-8	1-11
225.00	0-9	0-10	0-11	1-0	1-2	1-4	1-7	1-10	2-2	2-6
250.00	0-11	1-0	1-1	1-3	1-5	1-8	1-11	2-3	2-8	3-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div>SHEET</div> <div>22 OF 145</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH814.22
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING #2 - 5/2 AWAC TENSION 1600 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0
175.00	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-4
200.00	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-5	1-7	1-9
225.00	0-11	1-0	1-1	1-2	1-4	1-6	1-8	1-10	2-0	2-2
250.00	1-1	1-3	1-4	1-6	1-8	1-10	2-0	2-3	2-6	2-8
275.00	1-4	1-6	1-7	1-9	2-0	2-2	2-5	2-9	3-0	3-3
300.00	1-7	1-9	1-11	2-1	2-4	2-7	2-11	3-3	3-7	3-11
325.00	1-10	2-1	2-3	2-6	2-9	3-1	3-5	3-9	4-2	4-7
350.00	2-2	2-4	2-7	2-11	3-2	3-7	4-0	4-5	4-10	5-4
375.00	2-6	2-9	3-0	3-4	3-8	4-1	4-7	5-1	5-7	6-1

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
175.00	0-10	0-11	1-0	1-2	1-3	1-5	1-6	1-7	1-9	1-10
200.00	1-0	1-2	1-4	1-6	1-8	1-10	2-0	2-1	2-3	2-5
225.00	1-4	1-6	1-8	1-10	2-1	2-3	2-6	2-8	2-10	3-1
250.00	1-7	1-10	2-1	2-4	2-7	2-10	3-1	3-4	3-6	3-9
275.00	2-0	2-3	2-6	2-10	3-1	3-5	3-8	4-0	4-3	4-7
300.00	2-4	2-8	3-0	3-4	3-8	4-1	4-5	4-9	5-1	5-5
325.00	2-9	3-1	3-6	3-11	4-4	4-9	5-2	5-7	6-0	6-4
350.00	3-2	3-7	4-1	4-6	5-0	5-6	6-0	6-6	6-11	7-5
375.00	3-8	4-2	4-8	5-2	5-9	6-4	6-11	7-5	8-0	8-6

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[illegible]

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	0.914	2.60	1758	2.54	1800*
0	0	0	0	0.111	0.40	1398	0.35	1582
30	0	0	0	0.111	0.50	1109	0.40	1386
40	0	0	0	0.111	0.55	1014	0.42	1318
50	0	0	0	0.111	0.60	919	0.44	1250
60	0	0	0	0.111	0.67	826	0.47	1181
70	0	0	0	0.111	0.76	734	0.50	1110
80	0	0	0	0.111	0.86	646	0.53	1039
90	0	0	0	0.111	0.99	561	0.57	968
100	0	0	0	0.111	1.15	482	0.62	896
110	0	0	0	0.111	1.35	411	0.67	823
120	0	0	0	0.111	1.59	350	0.74	751
130	0	0	0	0.111	1.85	301	0.82	679
167	0	0	0	0.111	2.85	195	1.29	430
212	0	0	0	0.111	3.91	142	2.34	237
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>26 OF 145</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH814.26
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING #2 - 5/2 AWAC TENSION 1800 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	0.914	10.18	1800	10.18	1800*
0	0	0	0	0.111	3.79	586	2.51	885
30	0	0	0	0.111	5.03	441	3.18	697
40	0	0	0	0.111	5.47	406	3.47	640
50	0	0	0	0.111	5.91	376	3.79	587
60	0	0	0	0.111	6.35	350	4.13	538
70	0	0	0	0.111	6.77	328	4.50	493
80	0	0	0	0.111	7.19	309	4.89	454
90	0	0	0	0.111	7.59	293	5.29	420
100	0	0	0	0.111	7.99	278	5.70	389
110	0	0	0	0.111	8.37	266	6.12	363
120	0	0	0	0.111	8.74	254	6.53	340
130	0	0	0	0.111	9.11	244	6.93	321
167	0	0	0	0.111	10.37	215	8.36	266
212	0	0	0	0.111	11.75	190	9.93	224

* Design Condition

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[illegible]

Span =		500	ft					
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	0.914	15.93	1800	15.93	1800*
0	0	0	0	0.111	9.44	368	6.83	508
30	0	0	0	0.111	10.84	321	8.25	421
40	0	0	0	0.111	11.28	308	8.73	398
50	0	0	0	0.111	11.71	297	9.20	378
60	0	0	0	0.111	12.14	286	9.66	360
70	0	0	0	0.111	12.55	277	10.12	343
80	0	0	0	0.111	12.95	269	10.56	329
90	0	0	0	0.111	13.35	261	11.00	316
100	0	0	0	0.111	13.73	253	11.43	304
110	0	0	0	0.111	14.11	247	11.85	293
120	0	0	0	0.111	14.48	240	12.26	284
130	0	0	0	0.111	14.84	235	12.67	275
167	0	0	0	0.111	16.12	216	14.09	247
212	0	0	0	0.111	17.57	198	15.68	222
* Design Condition								

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>28 OF 145</div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH814.28	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING #2 - 5/2 AWAC TENSION 1800 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7
175.00	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9
200.00	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0
225.00	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-2	1-3
250.00	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7
275.00	0-11	1-0	1-0	1-1	1-2	1-4	1-5	1-7	1-9	1-11
300.00	1-1	1-2	1-3	1-4	1-5	1-6	1-8	1-10	2-0	2-3
325.00	1-3	1-4	1-5	1-7	1-8	1-10	2-0	2-2	2-5	2-8
350.00	1-6	1-7	1-8	1-9	1-11	2-1	2-3	2-6	2-9	3-1
375.00	1-8	1-10	1-11	2-1	2-3	2-5	2-8	2-11	3-2	3-6

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0
175.00	0-6	0-7	0-7	0-8	0-9	0-11	1-0	1-1	1-3	1-4
200.00	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-5	1-7	1-9
225.00	0-10	0-11	1-0	1-2	1-3	1-5	1-8	1-10	2-0	2-3
250.00	1-0	1-1	1-3	1-5	1-7	1-10	2-0	2-3	2-6	2-9
275.00	1-3	1-4	1-6	1-8	1-11	2-2	2-5	2-9	3-0	3-4
300.00	1-5	1-7	1-10	2-0	2-3	2-7	2-11	3-3	3-7	4-0
325.00	1-8	1-11	2-1	2-4	2-8	3-0	3-5	3-10	4-3	4-8
350.00	2-0	2-2	2-5	2-9	3-1	3-6	4-0	4-5	4-11	5-5
375.00	2-3	2-6	2-10	3-2	3-7	4-0	4-7	5-1	5-8	6-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>31 OF 145</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH814.31
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING #2 - 5/2 AWAC TENSION 1800 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-9	0-10	0-10	0-11	1-0	1-2	1-3	1-4	1-5	1-6
225.00	0-11	1-0	1-1	1-2	1-4	1-5	1-7	1-8	1-10	1-11
250.00	1-2	1-3	1-4	1-6	1-7	1-9	1-11	2-1	2-3	2-5
275.00	1-5	1-6	1-8	1-9	1-11	2-2	2-4	2-6	2-8	2-11
300.00	1-8	1-9	1-11	2-2	2-4	2-6	2-9	3-0	3-3	3-5
325.00	1-11	2-1	2-3	2-6	2-9	3-0	3-3	3-6	3-9	4-0
350.00	2-3	2-5	2-8	2-11	3-2	3-5	3-9	4-1	4-4	4-8
375.00	2-7	2-10	3-1	3-4	3-8	3-11	4-4	4-8	5-0	5-5
400.00	2-11	3-2	3-6	3-9	4-2	4-6	4-11	5-4	5-8	6-1
425.00	3-4	3-7	3-11	4-3	4-8	5-1	5-6	6-0	6-5	6-11
450.00	3-9	4-0	4-5	4-9	5-3	5-8	6-2	6-8	7-3	7-9
475.00	4-2	4-6	4-11	5-4	5-10	6-4	6-11	7-6	8-1	8-8
500.00	4-7	5-0	5-5	5-11	6-5	7-0	7-8	8-3	8-11	9-7

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-2	1-3	1-4	1-6	1-7	1-8	1-10	1-11	2-0	2-1
225.00	1-5	1-7	1-9	1-10	2-0	2-2	2-3	2-5	2-6	2-8
250.00	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-0	3-1	3-3
275.00	2-2	2-5	2-7	2-10	3-0	3-2	3-5	3-7	3-9	3-11
300.00	2-7	2-10	3-1	3-4	3-7	3-10	4-1	4-3	4-6	4-8
325.00	3-0	3-4	3-7	3-11	4-2	4-6	4-9	5-0	5-3	5-6
350.00	3-6	3-10	4-2	4-6	4-10	5-2	5-6	5-10	6-1	6-5
375.00	4-1	4-5	4-10	5-2	5-7	5-11	6-4	6-8	7-0	7-4
400.00	4-7	5-0	5-6	5-11	6-4	6-9	7-2	7-7	8-0	8-4
425.00	5-2	5-8	6-2	6-8	7-2	7-8	8-1	8-7	9-0	9-5
450.00	5-10	6-4	6-11	7-6	8-0	8-7	9-1	9-7	10-1	10-7
475.00	6-6	7-1	7-9	8-4	8-11	9-7	10-2	10-9	11-3	11-10
500.00	7-2	7-10	8-7	9-3	9-11	10-7	11-3	11-10	12-6	13-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 32 OF 145		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH814.32
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING #2 - 5/2 AWAC TENSION 1800 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	2.923	9.21	1600	9.21	1600*
0.0	0.00	0.00	0.00	0.111	7.53	74	6.92	81
30.0	0.00	0.00	0.00	0.111	7.88	71	7.30	76
40.0	0.00	0.00	0.00	0.111	7.99	70	7.42	75
50.0	0.00	0.00	0.00	0.111	8.10	69	7.54	74
60.0	0.00	0.00	0.00	0.111	8.21	68	7.66	73
70.0	0.00	0.00	0.00	0.111	8.32	67	7.77	72
80.0	0.00	0.00	0.00	0.111	8.43	66	7.89	71
90.0	0.00	0.00	0.00	0.111	8.53	66	8.00	70
100.0	0.00	0.00	0.00	0.111	8.64	65	8.11	69
110.0	0.00	0.00	0.00	0.111	8.74	64	8.22	68
120.0	0.00	0.00	0.00	0.111	8.84	63	8.33	67
130.0	0.00	0.00	0.00	0.111	8.94	63	8.44	66
167.0	0.00	0.00	0.00	0.111	9.31	60	8.82	63
212.0	0.00	0.00	0.00	0.111	9.74	58	9.27	60
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 34 OF 145		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH814.34
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING #2 - 5/2 AWAC TENSION 1600 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	2.923	60.44	1600	60.44	1600*
0.0	0.00	0.00	0.00	0.111	58.89	62	58.39	63
30.0	0.00	0.00	0.00	0.111	59.19	62	58.69	62
40.0	0.00	0.00	0.00	0.111	59.29	62	58.79	62
50.0	0.00	0.00	0.00	0.111	59.39	62	58.90	62
60.0	0.00	0.00	0.00	0.111	59.49	62	59.00	62
70.0	0.00	0.00	0.00	0.111	59.58	62	59.10	62
80.0	0.00	0.00	0.00	0.111	59.68	61	59.20	62
90.0	0.00	0.00	0.00	0.111	59.78	61	59.29	62
100.0	0.00	0.00	0.00	0.111	59.88	61	59.39	62
110.0	0.00	0.00	0.00	0.111	59.98	61	59.49	62
120.0	0.00	0.00	0.00	0.111	60.08	61	59.59	62
130.0	0.00	0.00	0.00	0.111	60.18	61	59.69	61
167.0	0.00	0.00	0.00	0.111	60.54	61	60.06	61
212.0	0.00	0.00	0.00	0.111	60.98	60	60.50	61
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>36 OF 145</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH814.36</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING</p> <p>#2 - 5/2 AWAC TENSION 1600 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-8
100.00	0-3	0-3	0-3	0-4	0-5	0-6	0-8	0-9	0-11	1-1
125.00	0-4	0-5	0-5	0-6	0-8	0-10	1-0	1-3	1-6	1-9
150.00	0-6	0-7	0-8	0-9	0-11	1-2	1-5	1-9	2-2	2-6
175.00	0-8	0-9	0-11	1-0	1-3	1-7	1-11	2-5	2-11	3-5
200.00	0-10	1-0	1-2	1-4	1-8	2-0	2-7	3-2	3-10	4-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0
100.00	0-5	0-7	0-9	0-11	1-1	1-3	1-5	1-6	1-8	1-9
125.00	0-8	0-11	1-2	1-5	1-8	1-11	2-2	2-5	2-7	2-10
150.00	1-0	1-4	1-8	2-1	2-5	2-10	3-2	3-5	3-9	4-0
175.00	1-5	1-9	2-3	2-10	3-4	3-10	4-3	4-8	5-1	5-6
200.00	1-10	2-4	3-0	3-8	4-4	5-0	5-7	6-2	6-8	7-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div>SHEET</div> <div>37 OF 145</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH814.37
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING #2 - 5/2 AWAC TENSION 1600 LBS					

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-11	2-0	2-0	2-0	2-1	2-1	2-1	2-2	2-2	2-2
125.00	3-0	3-1	3-1	3-2	3-2	3-3	3-3	3-4	3-4	3-5
150.00	4-4	4-5	4-6	4-7	4-7	4-8	4-9	4-10	4-10	4-11
175.00	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-8
200.00	7-9	7-11	8-0	8-1	8-3	8-4	8-5	8-6	8-8	8-9
225.00	9-10	10-0	10-1	10-3	10-5	10-6	10-8	10-10	10-11	11-1
250.00	12-2	12-4	12-6	12-8	12-10	13-0	13-2	13-4	13-6	13-8

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>38 OF 145</div>		Indicates Latest Revision		Completely Revised	X	New Page	Information Removed		OH814.38		
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING #2 - 5/2 AWAC TENSION 1600 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-9	4-9	4-10	4-10	4-10	4-10	4-11	4-11	4-11	5-0
175.00	6-5	6-6	6-6	6-7	6-7	6-8	6-8	6-8	6-9	6-9
200.00	8-5	8-6	8-6	8-7	8-8	8-8	8-9	8-9	8-10	8-10
225.00	10-8	10-9	10-10	10-10	10-11	11-0	11-1	11-1	11-2	11-3
250.00	13-2	13-3	13-4	13-5	13-6	13-7	13-8	13-9	13-9	13-10
275.00	16-0	16-1	16-2	16-3	16-4	16-5	16-6	16-7	16-8	16-9
300.00	19-1	19-2	19-3	19-4	19-6	19-7	19-8	19-9	19-11	20-0
325.00	22-4	22-6	22-7	22-9	22-10	23-0	23-1	23-3	23-4	23-6
350.00	26-0	26-1	26-3	26-5	26-7	26-8	26-10	27-0	27-1	27-3
375.00	29-10	30-0	30-2	30-4	30-6	30-8	30-10	31-0	31-2	31-4

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-10	4-11	4-11	4-11	5-0	5-0	5-0	5-1	5-1	5-1
175.00	6-8	6-8	6-8	6-9	6-9	6-10	6-10	6-11	6-11	6-11
200.00	8-8	8-9	8-9	8-10	8-10	8-11	8-11	9-0	9-0	9-1
225.00	11-0	11-0	11-1	11-2	11-3	11-3	11-4	11-5	11-5	11-6
250.00	13-7	13-8	13-8	13-9	13-10	13-11	14-0	14-1	14-2	14-2
275.00	16-5	16-6	16-7	16-8	16-9	16-10	16-11	17-0	17-1	17-2
300.00	19-7	19-8	19-9	19-11	20-0	20-1	20-2	20-3	20-5	20-6
325.00	23-0	23-1	23-3	23-4	23-6	23-7	23-9	23-10	23-11	24-1
350.00	26-8	26-10	27-0	27-1	27-3	27-5	27-6	27-8	27-10	27-11
375.00	30-8	30-10	31-0	31-2	31-4	31-6	31-8	31-10	32-0	32-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>39 OF 145</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH814.39
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING #2 - 5/2 AWAC TENSION 1600 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-11	8-11	9-0	9-0	9-0	9-1	9-1	9-1	9-1	9-2
225.00	11-4	11-4	11-4	11-5	11-5	11-6	11-6	11-6	11-7	11-7
250.00	14-0	14-0	14-1	14-1	14-1	14-2	14-2	14-3	14-3	14-4
275.00	16-11	17-0	17-0	17-1	17-1	17-2	17-2	17-3	17-3	17-4
300.00	20-2	20-2	20-3	20-4	20-4	20-5	20-6	20-6	20-7	20-8
325.00	23-8	23-9	23-10	23-10	23-11	24-0	24-1	24-2	24-2	24-3
350.00	27-6	27-7	27-8	27-9	27-9	27-10	27-11	28-0	28-1	28-2
375.00	31-7	31-8	31-9	31-10	31-11	32-0	32-1	32-2	32-4	32-5
400.00	36-0	36-1	36-2	36-3	36-5	36-6	36-7	36-8	36-10	36-11
425.00	40-8	40-9	40-11	41-0	41-2	41-3	41-4	41-6	41-7	41-9
450.00	45-8	45-10	45-11	46-1	46-2	46-4	46-5	46-7	46-8	46-10
475.00	50-11	51-1	51-3	51-5	51-7	51-8	51-10	52-0	52-1	52-3
500.00	56-7	56-9	56-11	57-1	57-2	57-4	57-6	57-8	57-10	58-0


Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	9-1	9-1	9-1	9-1	9-2	9-2	9-2	9-3	9-3	9-3
225.00	11-5	11-6	11-6	11-7	11-7	11-7	11-8	11-8	11-8	11-9
250.00	14-2	14-2	14-3	14-3	14-4	14-4	14-5	14-5	14-6	14-6
275.00	17-2	17-2	17-3	17-3	17-4	17-5	17-5	17-6	17-6	17-7
300.00	20-5	20-6	20-6	20-7	20-8	20-8	20-9	20-10	20-10	20-11
325.00	24-0	24-1	24-2	24-2	24-3	24-4	24-5	24-5	24-6	24-7
350.00	27-10	27-11	28-0	28-1	28-2	28-3	28-4	28-5	28-6	28-7
375.00	32-0	32-1	32-2	32-3	32-5	32-6	32-7	32-8	32-9	32-10
400.00	36-6	36-7	36-8	36-9	36-11	37-0	37-1	37-2	37-3	37-5
425.00	41-3	41-4	41-6	41-7	41-8	41-10	41-11	42-0	42-2	42-3
450.00	46-4	46-5	46-7	46-8	46-10	46-11	47-1	47-2	47-4	47-6
475.00	51-8	51-10	52-0	52-1	52-3	52-5	52-6	52-8	52-10	53-0
500.00	57-4	57-6	57-8	57-10	58-0	58-2	58-4	58-6	58-8	58-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>40 OF 145</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH814.40
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING #2 - 5/2 AWAC TENSION 1600 LBS									

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	14-7	14-7	14-7	14-8	14-8	14-8	14-9	14-9	14-9	14-9
275.00	17-8	17-8	17-9	17-9	17-9	17-10	17-10	17-10	17-11	17-11
300.00	21-0	21-1	21-1	21-2	21-2	21-2	21-3	21-3	21-4	21-4
325.00	24-8	24-9	24-9	24-10	24-10	24-11	24-11	25-0	25-0	25-1
350.00	28-8	28-9	28-9	28-10	28-11	28-11	29-0	29-0	29-1	29-1
375.00	33-0	33-0	33-1	33-2	33-2	33-3	33-4	33-4	33-5	33-6
400.00	37-7	37-8	37-8	37-9	37-10	37-11	37-11	38-0	38-1	38-2
425.00	42-6	42-7	42-7	42-8	42-9	42-10	42-11	43-0	43-1	43-1
450.00	47-8	47-9	47-10	47-11	48-0	48-1	48-2	48-3	48-4	48-5
475.00	53-3	53-4	53-5	53-6	53-7	53-8	53-9	53-10	53-11	54-0
500.00	59-1	59-2	59-3	59-5	59-6	59-7	59-8	59-9	59-11	60-0
525.00	65-3	65-4	65-6	65-7	65-8	65-10	65-11	66-0	66-2	66-3
550.00	71-9	71-11	72-0	72-2	72-3	72-4	72-6	72-7	72-9	72-10
575.00	78-7	78-9	78-10	79-0	79-2	79-3	79-5	79-6	79-8	79-10
600.00	85-9	85-11	86-1	86-2	86-4	86-6	86-8	86-9	86-11	87-1
625.00	93-3	93-5	93-7	93-9	93-11	94-1	94-3	94-5	94-6	94-8

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>41 OF 145</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH814.41</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING</p> <p>#2 - 5/2 AWAC TENSION 1600 LBS</p> </div>				

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	2.923	8.17	1800	8.17	1800*
0	0	0	0	0.111	5.94	94	4.98	112
30	0	0	0	0.111	6.37	87	5.48	102
40	0	0	0	0.111	6.51	86	5.63	99
50	0	0	0	0.111	6.65	84	5.79	96
60	0	0	0	0.111	6.78	82	5.94	94
70	0	0	0	0.111	6.91	81	6.08	92
80	0	0	0	0.111	7.04	79	6.22	90
90	0	0	0	0.111	7.16	78	6.37	88
100	0	0	0	0.111	7.29	77	6.50	86
110	0	0	0	0.111	7.41	75	6.64	84
120	0	0	0	0.111	7.53	74	6.77	82
130	0	0	0	0.111	7.64	73	6.90	81
167	0	0	0	0.111	8.07	69	7.36	76
212	0	0	0	0.111	8.55	65	7.89	71
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 42 OF 145		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH814.42
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING #2 - 5/2 AWAC TENSION 1800 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	2.923	33.38	1800	33.38	1800*
0	0	0	0	0.111	31.38	72	30.66	74
30	0	0	0	0.111	31.73	72	31.01	73
40	0	0	0	0.111	31.84	71	31.13	73
50	0	0	0	0.111	31.96	71	31.25	73
60	0	0	0	0.111	32.07	71	31.37	73
70	0	0	0	0.111	32.19	71	31.48	72
80	0	0	0	0.111	32.30	71	31.60	72
90	0	0	0	0.111	32.41	70	31.72	72
100	0	0	0	0.111	32.53	70	31.83	72
110	0	0	0	0.111	32.64	70	31.95	71
120	0	0	0	0.111	32.75	70	32.06	71
130	0	0	0	0.111	32.87	69	32.18	71
167	0	0	0	0.111	33.28	69	32.60	70
212	0	0	0	0.111	33.77	68	33.10	69
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>43 OF 145</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH814.43
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING #2 - 5/2 AWAC TENSION 1800 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	2.923	53.04	1800	53.04	1800*
0	0	0	0	0.111	51.06	71	50.36	72
30	0	0	0	0.111	51.40	70	50.70	71
40	0	0	0	0.111	51.51	70	50.82	71
50	0	0	0	0.111	51.62	70	50.93	71
60	0	0	0	0.111	51.74	70	51.05	71
70	0	0	0	0.111	51.85	70	51.16	71
80	0	0	0	0.111	51.96	70	51.27	71
90	0	0	0	0.111	52.07	70	51.39	70
100	0	0	0	0.111	52.19	69	51.50	70
110	0	0	0	0.111	52.30	69	51.61	70
120	0	0	0	0.111	52.41	69	51.73	70
130	0	0	0	0.111	52.52	69	51.84	70
167	0	0	0	0.111	52.93	68	52.25	69
212	0	0	0	0.111	53.43	68	52.76	69
* Design Condition								

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 44 OF 145		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH814.44	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING #2 - 5/2 AWAC TENSION 1800 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-4
125.00	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7
150.00	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-10
175.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-10	0-11	1-1
200.00	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-5

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-3	0-3	0-4	0-6	0-7	0-8
100.00	0-2	0-3	0-3	0-4	0-5	0-6	0-8	0-10	1-0	1-2
125.00	0-4	0-4	0-5	0-6	0-7	0-10	1-0	1-4	1-7	1-10
150.00	0-5	0-6	0-7	0-9	0-11	1-2	1-6	1-10	2-3	2-8
175.00	0-7	0-8	0-10	1-0	1-3	1-7	2-0	2-6	3-1	3-7
200.00	0-9	0-11	1-1	1-3	1-7	2-1	2-8	3-4	4-0	4-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 5/2 AWAC TENSION 1800 LBS

OH814.45

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-4	1-4	1-5	1-5	1-6	1-6	1-7	1-7	1-7	1-8
125.00	2-1	2-2	2-2	2-3	2-4	2-4	2-5	2-6	2-6	2-7
150.00	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
175.00	4-1	4-2	4-4	4-5	4-7	4-8	4-9	4-10	5-0	5-1
200.00	5-4	5-6	5-8	5-9	5-11	6-1	6-3	6-4	6-6	6-8
225.00	6-9	6-11	7-2	7-4	7-6	7-8	7-11	8-1	8-3	8-5
250.00	8-4	8-7	8-10	9-1	9-3	9-6	9-9	9-11	10-2	10-5

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-7	1-7	1-8	1-8	1-8	1-9	1-9	1-9	1-10	1-10
125.00	2-5	2-6	2-6	2-7	2-8	2-8	2-9	2-10	2-10	2-11
150.00	3-6	3-7	3-8	3-9	3-10	3-11	3-11	4-0	4-1	4-2
175.00	4-9	4-11	5-0	5-1	5-2	5-3	5-5	5-6	5-7	5-8
200.00	6-3	6-4	6-6	6-8	6-9	6-11	7-0	7-2	7-3	7-5
225.00	7-11	8-1	8-3	8-5	8-7	8-9	8-11	9-1	9-3	9-5
250.00	9-9	10-0	10-2	10-5	10-7	10-10	11-0	11-2	11-5	11-7

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<div style="text-align: center;"> <p>SHEET</p> <p>46 OF 145</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH814.46</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING #2 - 5/2 AWAC TENSION 1800 LBS						

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-0	4-0	4-1	4-1	4-1	4-2	4-2	4-2	4-3	4-3
175.00	5-5	5-6	5-6	5-7	5-7	5-8	5-8	5-9	5-9	5-10
200.00	7-1	7-2	7-2	7-3	7-4	7-4	7-5	7-6	7-6	7-7
225.00	9-0	9-1	9-1	9-2	9-3	9-4	9-5	9-6	9-6	9-7
250.00	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-10
275.00	13-5	13-6	13-8	13-9	13-10	13-11	14-1	14-2	14-3	14-4
300.00	16-0	16-1	16-3	16-4	16-6	16-7	16-9	16-10	17-0	17-1
325.00	18-9	18-11	19-1	19-3	19-4	19-6	19-8	19-9	19-11	20-1
350.00	21-9	21-11	22-1	22-4	22-6	22-8	22-10	23-0	23-2	23-4
375.00	25-0	25-3	25-5	25-7	25-10	26-0	26-2	26-5	26-7	26-9

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-2	4-2	4-3	4-3	4-3	4-4	4-4	4-5	4-5	4-5
175.00	5-8	5-9	5-9	5-10	5-10	5-11	5-11	6-0	6-0	6-0
200.00	7-5	7-6	7-6	7-7	7-8	7-8	7-9	7-9	7-10	7-11
225.00	9-5	9-6	9-6	9-7	9-8	9-9	9-10	9-10	9-11	10-0
250.00	11-7	11-8	11-9	11-10	11-11	12-0	12-1	12-2	12-3	12-4
275.00	14-1	14-2	14-3	14-4	14-5	14-7	14-8	14-9	14-10	14-11
300.00	16-9	16-10	17-0	17-1	17-3	17-4	17-5	17-7	17-8	17-10
325.00	19-8	19-10	19-11	20-1	20-3	20-4	20-6	20-8	20-9	20-11
350.00	22-10	23-0	23-2	23-4	23-6	23-8	23-9	23-11	24-1	24-3
375.00	26-3	26-5	26-7	26-9	27-0	27-2	27-4	27-6	27-8	27-11

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<div>SHEET</div> <div>47 OF 145</div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	OH814.47
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING #2 - 5/2 AWAC TENSION 1800 LBS						

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-8	7-8	7-9	7-9	7-10	7-10	7-10	7-11	7-11	7-11
225.00	9-9	9-9	9-10	9-10	9-10	9-11	9-11	10-0	10-0	10-1
250.00	12-0	12-1	12-1	12-2	12-2	12-3	12-3	12-4	12-4	12-5
275.00	14-7	14-7	14-8	14-8	14-9	14-10	14-10	14-11	15-0	15-0
300.00	17-4	17-5	17-5	17-6	17-7	17-8	17-9	17-9	17-10	17-11
325.00	20-4	20-5	20-6	20-7	20-8	20-9	20-10	20-11	20-11	21-0
350.00	23-7	23-8	23-9	23-11	24-0	24-1	24-2	24-3	24-4	24-5
375.00	27-2	27-3	27-4	27-5	27-7	27-8	27-9	27-10	27-11	28-1
400.00	30-11	31-0	31-2	31-3	31-4	31-6	31-7	31-9	31-10	31-11
425.00	34-11	35-1	35-2	35-4	35-5	35-7	35-9	35-10	36-0	36-1
450.00	39-2	39-4	39-6	39-8	39-9	39-11	40-1	40-3	40-5	40-6
475.00	43-8	43-11	44-1	44-3	44-5	44-7	44-9	44-11	45-0	45-2
500.00	48-6	48-8	48-10	49-1	49-3	49-5	49-7	49-9	50-0	50-2

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-10	7-11	7-11	7-11	8-0	8-0	8-0	8-1	8-1	8-1
225.00	9-11	10-0	10-0	10-1	10-1	10-2	10-2	10-2	10-3	10-3
250.00	12-3	12-4	12-5	12-5	12-6	12-6	12-7	12-7	12-8	12-8
275.00	14-11	14-11	15-0	15-0	15-1	15-2	15-2	15-3	15-4	15-4
300.00	17-9	17-9	17-10	17-11	18-0	18-0	18-1	18-2	18-3	18-3
325.00	20-10	20-11	21-0	21-0	21-1	21-2	21-3	21-4	21-5	21-6
350.00	24-2	24-3	24-4	24-5	24-6	24-7	24-8	24-9	24-10	24-11
375.00	27-9	27-10	28-0	28-1	28-2	28-3	28-4	28-6	28-7	28-8
400.00	31-7	31-9	31-10	31-11	32-1	32-2	32-4	32-5	32-6	32-8
425.00	35-9	35-10	36-0	36-1	36-3	36-5	36-6	36-8	36-9	36-11
450.00	40-1	40-3	40-5	40-6	40-8	40-10	41-0	41-1	41-3	41-5
475.00	44-9	44-11	45-1	45-3	45-5	45-7	45-9	45-10	46-0	46-2
500.00	49-7	49-10	50-0	50-2	50-4	50-6	50-9	50-11	51-1	51-3

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SHEET 48 OF 145		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH814.48
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING #2 - 5/2 AWAC TENSION 1800 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.317	1.64	969	1.32	1200*
20	0	0	0	0.111	0.49	1131	0.41	1347
30	0	0	0	0.111	0.54	1035	0.43	1279
40	0	0	0	0.111	0.59	941	0.46	1210
50	0	0	0	0.111	0.66	847	0.49	1141
60	0	0	0	0.111	0.74	755	0.52	1070
70	0	0	0	0.111	0.83	665	0.56	998
80	0	0	0	0.111	0.96	580	0.60	927
90	0	0	0	0.111	1.11	499	0.65	854
100	0	0	0	0.111	1.30	426	0.71	782
110	0	0	0	0.111	1.53	363	0.78	709
120	0	0	0	0.111	1.79	311	0.87	638
130	0	0	0	0.111	2.06	270	0.98	568
167	0	0	0	0.111	3.05	182	1.61	345
212	0	0	0	0.111	4.07	137	2.75	202

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>50 OF 145</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH814.50</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING</p> <p>#2 - 5/2 AWAC TENSION 1200 LBS</p> </div>						

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.317	5.84	1087	5.29	1200*
20	0	0	0	0.111	2.25	986	1.89	1173
30	0	0	0	0.111	2.46	901	2.01	1106
40	0	0	0	0.111	2.71	821	2.14	1039
50	0	0	0	0.111	2.98	744	2.28	972
60	0	0	0	0.111	3.30	673	2.45	906
70	0	0	0	0.111	3.65	608	2.64	841
80	0	0	0	0.111	4.03	550	2.86	777
90	0	0	0	0.111	4.44	500	3.10	716
100	0	0	0	0.111	4.87	456	3.38	658
110	0	0	0	0.111	5.31	418	3.68	603
120	0	0	0	0.111	5.75	387	4.02	552
130	0	0	0	0.111	6.18	359	4.38	507
167	0	0	0	0.111	7.72	288	5.86	379
212	0	0	0	0.111	9.40	237	7.68	290

* Design Condition

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<div style="text-align: center;"> <p>SHEET</p> <p>51 OF 145</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH814.51</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING</p> <p>#2 - 5/2 AWAC TENSION 1200 LBS</p> </div>						

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.317	8.79	1128	8.27	1200*
20	0	0	0	0.111	3.93	884	3.31	1050
30	0	0	0	0.111	4.28	811	3.52	986
40	0	0	0	0.111	4.67	743	3.76	923
50	0	0	0	0.111	5.09	681	4.02	862
60	0	0	0	0.111	5.55	625	4.32	803
70	0	0	0	0.111	6.03	576	4.65	746
80	0	0	0	0.111	6.52	532	5.01	693
90	0	0	0	0.111	7.03	494	5.40	643
100	0	0	0	0.111	7.54	460	5.81	597
110	0	0	0	0.111	8.05	431	6.25	555
120	0	0	0	0.111	8.55	406	6.70	518
130	0	0	0	0.111	9.05	384	7.17	484
167	0	0	0	0.111	10.79	322	8.93	389
212	0	0	0	0.111	12.71	274	10.98	317

* Design Condition

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OH814.52

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
150.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7
200.00	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3
100.00	0-1	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5
125.00	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-8
150.00	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-8	0-9	1-0
175.00	0-4	0-5	0-5	0-6	0-7	0-7	0-9	0-10	1-1	1-4
200.00	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-4	1-9

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	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div>STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING</div> <div>#2 - 5/2 AWAC TENSION 1200 LBS</div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7
200.00	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-9
225.00	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0
250.00	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-1	1-3

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5
125.00	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7
150.00	0-3	0-4	0-4	0-4	0-5	0-6	0-6	0-8	0-9	0-10
175.00	0-5	0-5	0-5	0-6	0-7	0-8	0-9	0-10	1-0	1-2
200.00	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-4	1-6
225.00	0-7	0-8	0-9	0-10	0-11	1-1	1-3	1-5	1-8	1-11
250.00	0-9	0-10	0-11	1-0	1-2	1-4	1-6	1-9	2-0	2-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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<div>SHEET</div> <div>54 OF 145</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH814.54
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING #2 - 5/2 AWAC TENSION 1200 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6
175.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-8
200.00	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10
225.00	0-7	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1
250.00	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-4
275.00	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-7
300.00	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-7	1-9	1-11
325.00	1-2	1-3	1-3	1-4	1-6	1-7	1-8	1-10	2-0	2-3
350.00	1-4	1-5	1-6	1-7	1-8	1-10	2-0	2-2	2-4	2-7
375.00	1-6	1-7	1-9	1-10	1-11	2-1	2-3	2-6	2-8	3-0

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9
175.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1
200.00	0-6	0-7	0-7	0-8	0-9	0-10	1-0	1-1	1-3	1-5
225.00	0-8	0-9	0-9	0-11	1-0	1-1	1-3	1-5	1-7	1-9
250.00	0-10	0-11	1-0	1-1	1-2	1-4	1-6	1-9	1-11	2-2
275.00	1-0	1-1	1-2	1-4	1-6	1-8	1-10	2-1	2-4	2-8
300.00	1-2	1-3	1-5	1-7	1-9	1-11	2-2	2-6	2-10	3-2
325.00	1-4	1-6	1-8	1-10	2-0	2-4	2-7	2-11	3-4	3-8
350.00	1-7	1-9	1-11	2-1	2-4	2-8	3-0	3-5	3-10	4-4
375.00	1-10	2-0	2-2	2-5	2-9	3-1	3-5	3-11	4-5	4-11

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SHEET
55 OF 145

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
#2 - 5/2 AWAC TENSION 1200 LBS

OH814.55

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11
225.00	0-7	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2
250.00	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-3	1-4	1-5
275.00	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-9
300.00	1-1	1-2	1-2	1-3	1-5	1-6	1-7	1-9	1-11	2-1
325.00	1-3	1-4	1-5	1-6	1-7	1-9	1-11	2-1	2-3	2-5
350.00	1-5	1-6	1-8	1-9	1-11	2-0	2-2	2-4	2-7	2-10
375.00	1-8	1-9	1-11	2-0	2-2	2-4	2-6	2-9	3-0	3-3
400.00	1-11	2-0	2-2	2-3	2-5	2-8	2-10	3-1	3-5	3-8
425.00	2-2	2-3	2-5	2-7	2-9	3-0	3-3	3-6	3-10	4-2
450.00	2-5	2-6	2-8	2-11	3-1	3-4	3-7	3-11	4-3	4-8
475.00	2-8	2-10	3-0	3-3	3-5	3-9	4-0	4-4	4-9	5-2
500.00	2-11	3-2	3-4	3-7	3-10	4-2	4-6	4-10	5-3	5-9

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-4
225.00	0-9	0-9	0-10	0-11	1-1	1-2	1-3	1-5	1-6	1-8
250.00	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-9	1-11	2-1
275.00	1-1	1-2	1-3	1-5	1-7	1-9	1-11	2-1	2-4	2-6
300.00	1-3	1-5	1-6	1-8	1-10	2-1	2-3	2-6	2-9	3-0
325.00	1-6	1-8	1-9	2-0	2-2	2-5	2-8	2-11	3-3	3-6
350.00	1-9	1-11	2-1	2-3	2-6	2-10	3-1	3-5	3-9	4-1
375.00	2-0	2-2	2-5	2-7	2-11	3-3	3-7	3-11	4-3	4-8
400.00	2-3	2-6	2-8	3-0	3-4	3-8	4-0	4-5	4-10	5-4
425.00	2-7	2-9	3-1	3-4	3-9	4-1	4-7	5-0	5-6	6-0
450.00	2-10	3-1	3-5	3-9	4-2	4-7	5-1	5-8	6-2	6-9
475.00	3-2	3-6	3-10	4-2	4-8	5-2	5-8	6-3	6-10	7-6
500.00	3-6	3-10	4-3	4-8	5-2	5-8	6-4	6-11	7-7	8-4

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>56 OF 145</div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH814.56
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING #2 - 5/2 AWAC TENSION 1200 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-7
275.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-11
300.00	1-2	1-3	1-4	1-5	1-7	1-8	1-10	1-11	2-1	2-3
325.00	1-5	1-6	1-7	1-8	1-10	2-0	2-1	2-3	2-5	2-8
350.00	1-7	1-9	1-10	2-0	2-1	2-3	2-5	2-8	2-10	3-1
375.00	1-10	2-0	2-1	2-3	2-5	2-7	2-10	3-0	3-3	3-6
400.00	2-1	2-3	2-5	2-7	2-9	3-0	3-2	3-5	3-9	4-0
425.00	2-5	2-7	2-9	2-11	3-1	3-4	3-7	3-11	4-2	4-6
450.00	2-8	2-10	3-1	3-3	3-6	3-9	4-1	4-4	4-8	5-1
475.00	3-0	3-2	3-5	3-8	3-11	4-2	4-6	4-10	5-3	5-8
500.00	3-4	3-6	3-9	4-0	4-4	4-8	5-0	5-5	5-10	6-3
525.00	3-8	3-11	4-2	4-5	4-9	5-2	5-6	5-11	6-5	6-11
550.00	4-0	4-3	4-7	4-10	5-3	5-7	6-1	6-6	7-0	7-7
575.00	4-4	4-8	5-0	5-4	5-9	6-2	6-7	7-2	7-8	8-3
600.00	4-9	5-1	5-5	5-10	6-3	6-8	7-3	7-9	8-4	9-0
625.00	5-2	5-6	5-10	6-3	6-9	7-3	7-10	8-5	9-1	9-9

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	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING #2 - 5/2 AWAC TENSION 1200 LBS				

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.317	1.31	1207	0.99	1600*
20	0	0	0	0.111	0.39	1416	0.32	1756
30	0	0	0	0.111	0.42	1319	0.33	1695
40	0	0	0	0.111	0.45	1223	0.34	1633
50	0	0	0	0.111	0.49	1127	0.35	1569
60	0	0	0	0.111	0.54	1031	0.37	1505
70	0	0	0	0.111	0.59	937	0.39	1439
80	0	0	0	0.111	0.66	843	0.40	1373
90	0	0	0	0.111	0.74	751	0.43	1305
100	0	0	0	0.111	0.84	662	0.45	1236
110	0	0	0	0.111	0.96	576	0.48	1167
120	0	0	0	0.111	1.12	496	0.51	1097
130	0	0	0	0.111	1.31	423	0.54	1025
167	0	0	0	0.111	2.26	245	0.73	758
212	0	0	0	0.111	3.42	162	1.24	449
* Design Condition								

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>58 OF 145</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH814.58</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<p>DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING</p> <p>#2 - 5/2 AWAC TENSION 1600 LBS</p>						

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.317	7.17	1383	6.20	1600*
20	0	0	0	0.111	2.68	1293	2.17	1600
30	0	0	0	0.111	2.88	1204	2.26	1538
40	0	0	0	0.111	3.10	1118	2.35	1475
50	0	0	0	0.111	3.36	1034	2.46	1412
60	0	0	0	0.111	3.64	953	2.57	1348
70	0	0	0	0.111	3.96	876	2.70	1283
80	0	0	0	0.111	4.31	804	2.85	1218
90	0	0	0	0.111	4.71	737	3.01	1154
100	0	0	0	0.111	5.14	676	3.19	1089
110	0	0	0	0.111	5.59	620	3.39	1025
120	0	0	0	0.111	6.07	571	3.61	961
130	0	0	0	0.111	6.57	528	3.86	899
167	0	0	0	0.111	8.45	411	5.04	689
212	0	0	0	0.111	10.61	328	6.98	497
* Design Condition								

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OH814.60

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9
200.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>61 OF 145</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH814.61</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING #2 - 5/2 AWAC TENSION 1600 LBS						

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6
225.00	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-6	0-7	0-7
250.00	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-8	0-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-5
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7
175.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-8	0-9
200.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0
225.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-1	1-3
250.00	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-2	1-4	1-6

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>62 OF 145</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH814.62
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING #2 - 5/2 AWAC TENSION 1600 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5
200.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6
225.00	0-5	0-5	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-7
250.00	0-6	0-6	0-7	0-7	0-7	0-7	0-8	0-8	0-9	0-9
275.00	0-7	0-8	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-11
300.00	0-9	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1
325.00	0-10	0-11	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-4
350.00	1-0	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-6
375.00	1-2	1-2	1-3	1-3	1-4	1-5	1-6	1-6	1-8	1-9

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-6
175.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9
200.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11
225.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-1	1-2
250.00	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-2	1-4	1-6
275.00	0-9	0-10	0-11	0-11	1-0	1-2	1-3	1-5	1-7	1-9
300.00	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-8	1-10	2-1
325.00	1-1	1-2	1-3	1-4	1-5	1-7	1-9	1-11	2-2	2-6
350.00	1-3	1-4	1-5	1-6	1-8	1-10	2-0	2-3	2-7	2-10
375.00	1-5	1-6	1-8	1-9	1-11	2-1	2-4	2-7	2-11	3-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 63 OF 145	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH814.63
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING #2 - 5/2 AWAC TENSION 1600 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-5	0-6	0-6
225.00	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-7	0-8
250.00	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10
275.00	0-8	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-11	1-0
300.00	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-2
325.00	0-11	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4
350.00	1-0	1-1	1-1	1-2	1-2	1-3	1-4	1-5	1-6	1-7
375.00	1-2	1-3	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-10
400.00	1-4	1-5	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-1
425.00	1-6	1-7	1-7	1-8	1-9	1-10	1-11	2-1	2-2	2-4
450.00	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-4	2-5	2-7
475.00	1-11	1-11	2-0	2-1	2-3	2-4	2-5	2-7	2-9	2-11
500.00	2-1	2-2	2-3	2-4	2-5	2-7	2-8	2-10	3-0	3-2

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11
225.00	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-1	1-2
250.00	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-5
275.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-9
300.00	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-10	2-1
325.00	1-1	1-2	1-3	1-4	1-6	1-8	1-9	2-0	2-2	2-5
350.00	1-3	1-4	1-6	1-7	1-9	1-11	2-1	2-3	2-6	2-10
375.00	1-5	1-7	1-8	1-10	2-0	2-2	2-5	2-7	2-11	3-3
400.00	1-8	1-9	1-11	2-1	2-3	2-6	2-8	3-0	3-4	3-8
425.00	1-10	2-0	2-2	2-4	2-7	2-9	3-1	3-4	3-9	4-1
450.00	2-1	2-3	2-5	2-7	2-10	3-1	3-5	3-9	4-2	4-7
475.00	2-4	2-6	2-8	2-11	3-2	3-6	3-10	4-3	4-8	5-2
500.00	2-7	2-9	3-0	3-3	3-6	3-10	4-3	4-8	5-2	5-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>64 OF 145</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH814.64
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING #2 - 5/2 AWAC TENSION 1600 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-7	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10
275.00	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-11	1-0	1-0
300.00	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-3
325.00	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-5
350.00	1-1	1-1	1-2	1-2	1-3	1-4	1-5	1-6	1-7	1-8
375.00	1-3	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-10	1-11
400.00	1-5	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-2
425.00	1-7	1-8	1-8	1-9	1-10	1-11	2-1	2-2	2-4	2-5
450.00	1-9	1-10	1-11	2-0	2-1	2-2	2-4	2-5	2-7	2-9
475.00	1-11	2-0	2-1	2-3	2-4	2-5	2-7	2-9	2-11	3-1
500.00	2-2	2-3	2-4	2-5	2-7	2-8	2-10	3-0	3-2	3-5
525.00	2-5	2-6	2-7	2-9	2-10	3-0	3-2	3-4	3-6	3-9
550.00	2-7	2-9	2-10	3-0	3-1	3-3	3-5	3-8	3-10	4-1
575.00	2-10	3-0	3-1	3-3	3-5	3-7	3-9	4-0	4-3	4-6
600.00	3-1	3-3	3-5	3-6	3-8	3-11	4-1	4-4	4-7	4-11
625.00	3-5	3-6	3-8	3-10	4-0	4-3	4-5	4-8	5-0	5-3

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SHEET 65 OF 145	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH814.65
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING #2 - 5/2 AWAC TENSION 1600 LBS					

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div>SHEET</div> <div>66 OF 145</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div>OH814.66</div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING #2 - 5/2 AWAC TENSION 1600 LBS					

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.317	4.43	1433	3.96	1600*
0	0	0	0	0.111	1.59	1396	1.38	1605
30	0	0	0	0.111	1.98	1121	1.57	1414
40	0	0	0	0.111	2.15	1033	1.65	1349
50	0	0	0	0.111	2.35	947	1.73	1283
60	0	0	0	0.111	2.57	864	1.83	1216
70	0	0	0	0.111	2.83	785	1.93	1150
80	0	0	0	0.111	3.12	711	2.05	1083
90	0	0	0	0.111	3.46	643	2.19	1016
100	0	0	0	0.111	3.82	581	2.34	949
110	0	0	0	0.111	4.22	526	2.51	883
120	0	0	0	0.111	4.64	479	2.71	818
130	0	0	0	0.111	5.07	438	2.94	756
167	0	0	0	0.111	6.68	333	4.04	550
212	0	0	0	0.111	8.48	262	5.8	383

* Design Condition

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[illegible]

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.317	6.73	1473	6.2	1600*
0	0	0	0	0.111	2.6	1333	2.26	1538
30	0	0	0	0.111	3.24	1071	2.57	1348
40	0	0	0	0.111	3.51	989	2.7	1283
50	0	0	0	0.111	3.81	910	2.85	1218
60	0	0	0	0.111	4.15	836	3.01	1154
70	0	0	0	0.111	4.53	766	3.19	1089
80	0	0	0	0.111	4.94	702	3.39	1025
90	0	0	0	0.111	5.38	644	3.61	961
100	0	0	0	0.111	5.86	593	3.86	899
110	0	0	0	0.111	6.35	547	4.14	839
120	0	0	0	0.111	6.85	507	4.44	781
130	0	0	0	0.111	7.36	472	4.78	725
167	0	0	0	0.111	9.22	377	6.29	552
212	0	0	0	0.111	11.3	308	8.4	413

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 68 OF 145		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH814.68	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING #2 - 5/2 AWAC TENSION 1600 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3
150.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5
200.00	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
100.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6
150.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8
175.00	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-10	1-0
200.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-11	1-0	1-3

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 69 OF 145		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH814.69
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING #2 - 5/2 AWAC TENSION 1600 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
150.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
175.00	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5
200.00	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7
225.00	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9
250.00	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-11

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-4
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6
150.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8
175.00	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-11
200.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-11	1-0	1-2
225.00	0-7	0-7	0-8	0-8	0-9	0-10	1-0	1-1	1-3	1-6
250.00	0-8	0-9	0-10	0-10	0-11	1-1	1-2	1-4	1-7	1-10

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 70 OF 145		Indicates Latest Revision Completely Revised X New Page Information Removed SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING #2 - 5/2 AWAC TENSION 1600 LBS									OH814.70

Stringing Sag Table Using Initial Sag							Ruling Span:	300.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4
175.00	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6
200.00	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7
225.00	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9
250.00	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11
275.00	0-8	0-9	0-9	0-9	0-10	0-10	0-11	1-0	1-1	1-2
300.00	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-3	1-4
325.00	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-7
350.00	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-9	1-10
375.00	1-3	1-4	1-5	1-6	1-6	1-8	1-9	1-10	2-0	2-1

Stringing Sag Table Using Final Sag							Ruling Span:	300.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-7
175.00	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10
200.00	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	1-0	1-1
225.00	0-7	0-7	0-8	0-9	0-9	0-11	1-0	1-1	1-3	1-5
250.00	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-6	1-9
275.00	0-10	0-11	1-0	1-1	1-2	1-4	1-6	1-8	1-10	2-1
300.00	1-0	1-1	1-2	1-3	1-5	1-7	1-9	1-11	2-3	2-6
325.00	1-2	1-3	1-4	1-6	1-8	1-10	2-1	2-4	2-7	2-11
350.00	1-4	1-6	1-7	1-9	1-11	2-1	2-4	2-8	3-0	3-5
375.00	1-7	1-8	1-10	2-0	2-2	2-5	2-9	3-1	3-5	3-11

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[illegible]

Stringing Sag Table Using Initial Sag							Ruling Span:	400.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-5	0-5	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8
225.00	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-10
250.00	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0
275.00	0-9	0-9	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-2
300.00	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-5
325.00	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-5	1-7	1-8
350.00	1-2	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-11
375.00	1-4	1-5	1-5	1-6	1-7	1-8	1-10	1-11	2-1	2-3
400.00	1-6	1-7	1-8	1-9	1-10	1-11	2-1	2-2	2-4	2-6
425.00	1-8	1-9	1-10	1-11	2-1	2-2	2-4	2-6	2-8	2-10
450.00	1-11	2-0	2-1	2-2	2-4	2-5	2-7	2-9	3-0	3-2
475.00	2-1	2-3	2-4	2-5	2-7	2-9	2-11	3-1	3-4	3-7
500.00	2-4	2-5	2-7	2-8	2-10	3-0	3-2	3-5	3-8	3-11


Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-1
225.00	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-4
250.00	0-9	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-6	1-8
275.00	0-10	0-11	1-0	1-1	1-3	1-4	1-6	1-8	1-10	2-0
300.00	1-0	1-1	1-3	1-4	1-5	1-7	1-9	1-11	2-2	2-4
325.00	1-3	1-4	1-5	1-7	1-8	1-10	2-1	2-3	2-6	2-9
350.00	1-5	1-6	1-8	1-10	2-0	2-2	2-5	2-8	2-11	3-3
375.00	1-7	1-9	1-11	2-1	2-3	2-6	2-9	3-0	3-4	3-9
400.00	1-10	2-0	2-2	2-4	2-7	2-10	3-1	3-5	3-10	4-3
425.00	2-1	2-3	2-5	2-8	2-11	3-2	3-6	3-11	4-4	4-9
450.00	2-4	2-6	2-9	3-0	3-3	3-7	3-11	4-4	4-10	5-4
475.00	2-7	2-10	3-0	3-4	3-7	4-0	4-5	4-10	5-5	5-11
500.00	2-10	3-1	3-4	3-8	4-0	4-5	4-11	5-5	6-0	6-7

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 72 OF 145		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH814.72
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING #2 - 5/2 AWAC TENSION 1600 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.317	1.07	1484	0.88	1800*
0	0	0	0	0.111	0.34	1625	0.29	1895
30	0	0	0	0.111	0.42	1334	0.32	1717
40	0	0	0	0.111	0.45	1237	0.34	1655
50	0	0	0	0.111	0.49	1141	0.35	1592
60	0	0	0	0.111	0.53	1046	0.36	1528
70	0	0	0	0.111	0.58	951	0.38	1462
80	0	0	0	0.111	0.65	857	0.40	1396
90	0	0	0	0.111	0.73	765	0.42	1329
100	0	0	0	0.111	0.82	675	0.44	1261
110	0	0	0	0.111	0.94	589	0.47	1191
120	0	0	0	0.111	1.09	507	0.49	1121
130	0	0	0	0.111	1.28	433	0.53	1050
167	0	0	0	0.111	2.22	250	0.71	784
212	0	0	0	0.111	3.39	164	1.18	470
* Design Condition								

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>74 OF 145</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH814.74</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING</p> <p>#2 - 5/2 AWAC TENSION 1800 LBS</p> </div>				

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.317	4.06	1564	3.52	1800*
0	0	0	0	0.111	1.42	1563	1.21	1829
30	0	0	0	0.111	1.73	1283	1.35	1648
40	0	0	0	0.111	1.86	1191	1.40	1586
50	0	0	0	0.111	2.02	1101	1.46	1523
60	0	0	0	0.111	2.19	1013	1.52	1459
70	0	0	0	0.111	2.39	928	1.59	1394
80	0	0	0	0.111	2.63	846	1.67	1329
90	0	0	0	0.111	2.89	768	1.76	1263
100	0	0	0	0.111	3.20	695	1.86	1196
110	0	0	0	0.111	3.54	628	1.97	1129
120	0	0	0	0.111	3.91	568	2.09	1062
130	0	0	0	0.111	4.31	515	2.23	995
167	0	0	0	0.111	5.92	376	2.94	755
212	0	0	0	0.111	7.80	285	4.33	513

* Design Condition


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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 75 OF 145		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH814.75
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING #2 - 5/2 AWAC TENSION 1800 LBS										

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.317	6.17	1607	5.51	1800*
0	0	0	0	0.111	2.29	1517	1.95	1779
30	0	0	0	0.111	2.79	1245	2.17	1597
40	0	0	0	0.111	3.00	1158	2.26	1535
50	0	0	0	0.111	3.23	1072	2.36	1472
60	0	0	0	0.111	3.50	990	2.46	1409
70	0	0	0	0.111	3.81	911	2.58	1345
80	0	0	0	0.111	4.15	837	2.71	1280
90	0	0	0	0.111	4.52	767	2.85	1215
100	0	0	0	0.111	4.93	703	3.02	1150
110	0	0	0	0.111	5.38	645	3.20	1086
120	0	0	0	0.111	5.85	593	3.40	1022
130	0	0	0	0.111	6.34	547	3.62	958
167	0	0	0	0.111	8.22	423	4.70	739
212	0	0	0	0.111	10.40	334	6.54	531
* Design Condition								

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>76 OF 145</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH814.76</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING</p> <p>#2 - 5/2 AWAC TENSION 1800 LBS</p> </div>				

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-3
125.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9
200.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0

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SHEET 77 OF 145	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH814.77
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING #2 - 5/2 AWAC TENSION 1800 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6
225.00	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-6	0-7	0-7
250.00	0-6	0-6	0-6	0-7	0-7	0-7	0-7	0-8	0-8	0-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-3
125.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-6
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9
200.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11
225.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2
250.00	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-6

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	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING</p> <p>#2 - 5/2 AWAC TENSION 1800 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6
225.00	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-6	0-7	0-7
250.00	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-8	0-9
275.00	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-10	0-11
300.00	0-9	0-9	0-9	0-10	0-10	0-10	0-11	1-0	1-0	1-1
325.00	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-3
350.00	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-4	1-5	1-6
375.00	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-6	1-7	1-8

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6
175.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-7	0-8
200.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11
225.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2
250.00	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-2	1-3	1-5
275.00	0-9	0-10	0-10	0-11	1-0	1-1	1-3	1-4	1-6	1-9
300.00	0-11	0-11	1-0	1-1	1-3	1-4	1-6	1-8	1-10	2-1
325.00	1-0	1-1	1-2	1-4	1-5	1-7	1-9	1-11	2-2	2-5
350.00	1-2	1-4	1-5	1-6	1-8	1-10	2-0	2-3	2-6	2-10
375.00	1-5	1-6	1-7	1-9	1-11	2-1	2-3	2-7	2-10	3-2

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>79 OF 145</div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH814.79
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING #2 - 5/2 AWAC TENSION 1800 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6
225.00	0-5	0-5	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-7
250.00	0-6	0-6	0-7	0-7	0-7	0-7	0-8	0-8	0-9	0-9
275.00	0-7	0-8	0-8	0-8	0-9	0-9	0-9	0-10	0-11	0-11
300.00	0-9	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-1
325.00	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-3	1-4
350.00	1-0	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-6
375.00	1-2	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-8	1-9
400.00	1-4	1-4	1-5	1-5	1-6	1-7	1-8	1-9	1-10	2-0
425.00	1-6	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-3
450.00	1-8	1-8	1-9	1-10	1-11	2-0	2-1	2-3	2-4	2-6
475.00	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-6	2-7	2-9
500.00	2-0	2-1	2-2	2-3	2-5	2-6	2-7	2-9	2-11	3-1

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11
225.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1
250.00	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-2	1-3	1-5
275.00	0-9	0-10	0-11	0-11	1-0	1-2	1-3	1-4	1-6	1-8
300.00	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-8	1-10	2-0
325.00	1-1	1-2	1-3	1-4	1-5	1-7	1-9	1-11	2-1	2-4
350.00	1-3	1-4	1-5	1-7	1-8	1-10	2-0	2-3	2-5	2-8
375.00	1-5	1-6	1-8	1-9	1-11	2-1	2-4	2-7	2-10	3-1
400.00	1-7	1-9	1-10	2-0	2-2	2-5	2-8	2-11	3-2	3-6
425.00	1-10	1-11	2-1	2-3	2-6	2-8	3-0	3-3	3-7	4-0
450.00	2-1	2-2	2-4	2-7	2-9	3-0	3-4	3-8	4-1	4-6
475.00	2-3	2-5	2-8	2-10	3-1	3-4	3-8	4-1	4-6	5-0
500.00	2-6	2-8	2-11	3-2	3-5	3-9	4-1	4-6	5-0	5-6

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 80 OF 145	Indicates Latest Revision			Completely Revised		X	New Page		Information Removed		OH814.80
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
	STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING #2 - 5/2 AWAC TENSION 1800 LBS										

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.521	2.44	1066	2.17	1200*
20	0	0	0	0.111	0.53	1050	0.45	1235
30	0	0	0	0.111	0.58	955	0.48	1165
40	0	0	0	0.111	0.64	861	0.51	1095
50	0	0	0	0.111	0.72	769	0.54	1024
60	0	0	0	0.111	0.82	679	0.58	952
70	0	0	0	0.111	0.94	593	0.63	880
80	0	0	0	0.111	1.09	511	0.69	807
90	0	0	0	0.111	1.27	437	0.76	735
100	0	0	0	0.111	1.49	372	0.84	663
110	0	0	0	0.111	1.74	318	0.94	593
120	0	0	0	0.111	2.01	276	1.06	524
130	0	0	0	0.111	2.29	242	1.21	459
167	0	0	0	0.111	3.25	171	2.01	276
212	0	0	0	0.111	4.24	131	3.16	176
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 82 OF 145		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH814.82
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING #2 - 5/2 AWAC TENSION 1200 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.521	8.70	1200	8.70	1200*
20	0	0	0	0.111	3.51	633	3.00	740
30	0	0	0	0.111	3.88	573	3.27	680
40	0	0	0	0.111	4.28	519	3.56	624
50	0	0	0	0.111	4.70	473	3.89	572
60	0	0	0	0.111	5.14	433	4.24	524
70	0	0	0	0.111	5.57	399	4.62	481
80	0	0	0	0.111	6.01	370	5.01	443
90	0	0	0	0.111	6.44	345	5.42	410
100	0	0	0	0.111	6.87	324	5.83	381
110	0	0	0	0.111	7.28	305	6.24	356
120	0	0	0	0.111	7.69	289	6.65	334
130	0	0	0	0.111	8.08	275	7.05	315
167	0	0	0	0.111	9.44	236	8.47	263
212	0	0	0	0.111	10.92	204	10.03	222

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>83 OF 145</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH814.83</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING</p> <p>#2 - 5/2 AWAC TENSION 1200 LBS</p> </div>					

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.521	13.60	1200	13.60	1200*
20	0	0	0	0.111	7.96	436	6.87	506
30	0	0	0	0.111	8.46	410	7.34	473
40	0	0	0	0.111	8.96	388	7.81	444
50	0	0	0	0.111	9.45	368	8.29	419
60	0	0	0	0.111	9.92	350	8.77	396
70	0	0	0	0.111	10.39	334	9.24	376
80	0	0	0	0.111	10.84	320	9.70	358
90	0	0	0	0.111	11.29	308	10.15	342
100	0	0	0	0.111	11.72	297	10.60	328
110	0	0	0	0.111	12.14	286	11.04	315
120	0	0	0	0.111	12.56	277	11.47	303
130	0	0	0	0.111	12.96	268	11.89	292
167	0	0	0	0.111	14.38	242	13.37	260
212	0	0	0	0.111	15.96	218	15.02	232
* Design Condition								

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>84 OF 145</div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH814.84	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING #2 - 5/2 AWAC TENSION 1200 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4
150.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7
200.00	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3
100.00	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5
125.00	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-5	0-7	0-8
150.00	0-3	0-4	0-4	0-4	0-5	0-6	0-7	0-8	0-10	1-0
175.00	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-11	1-1	1-5
200.00	0-6	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-5	1-10

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SHEET 85 OF 145	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH814.85
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING #2 - 5/2 AWAC TENSION 1200 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span:	200.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4
150.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6
175.00	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9
200.00	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11
225.00	0-7	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-1	1-2
250.00	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-4	1-6

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5
125.00	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-8
150.00	0-4	0-4	0-4	0-5	0-6	0-6	0-7	0-9	0-10	1-0
175.00	0-5	0-5	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-4
200.00	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-3	1-6	1-9
225.00	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-7	1-11	2-2
250.00	0-10	0-11	1-0	1-2	1-3	1-6	1-8	2-0	2-4	2-9

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<div style="text-align: center;"> <p>SHEET</p> <p>86 OF 145</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH814.86</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING #2 - 5/2 AWAC TENSION 1200 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-8
175.00	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11
200.00	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-3
225.00	0-8	0-9	0-10	0-10	0-11	1-0	1-2	1-3	1-5	1-7
250.00	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-9	1-11
275.00	1-0	1-1	1-2	1-4	1-5	1-7	1-9	1-11	2-1	2-4
300.00	1-3	1-4	1-5	1-6	1-8	1-10	2-0	2-3	2-6	2-10
325.00	1-5	1-7	1-8	1-10	2-0	2-2	2-5	2-8	2-11	3-3
350.00	1-8	1-9	1-11	2-1	2-3	2-6	2-9	3-1	3-5	3-10
375.00	1-11	2-1	2-3	2-5	2-8	2-11	3-2	3-6	3-11	4-4

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0
175.00	0-6	0-6	0-7	0-8	0-9	0-10	1-0	1-1	1-3	1-4
200.00	0-8	0-8	0-9	0-11	1-0	1-1	1-3	1-5	1-7	1-9
225.00	0-10	0-11	1-0	1-1	1-3	1-5	1-7	1-10	2-0	2-2
250.00	1-0	1-1	1-3	1-5	1-7	1-9	2-0	2-3	2-6	2-9
275.00	1-2	1-4	1-6	1-8	1-11	2-1	2-5	2-8	3-0	3-4
300.00	1-5	1-7	1-9	2-0	2-3	2-6	2-10	3-2	3-7	3-11
325.00	1-8	1-10	2-1	2-4	2-8	3-0	3-4	3-9	4-2	4-7
350.00	1-11	2-2	2-5	2-8	3-1	3-5	3-11	4-4	4-10	5-4
375.00	2-3	2-6	2-9	3-1	3-6	3-11	4-5	5-0	5-7	6-1

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SHEET 87 OF 145	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH814.87
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING #2 - 5/2 AWAC TENSION 1200 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-7
225.00	0-11	1-0	1-2	1-3	1-4	1-6	1-7	1-9	1-10	2-0
250.00	1-2	1-3	1-5	1-6	1-8	1-10	1-11	2-1	2-3	2-5
275.00	1-5	1-7	1-8	1-10	2-0	2-2	2-4	2-7	2-9	2-11
300.00	1-8	1-10	2-0	2-2	2-5	2-7	2-10	3-1	3-3	3-6
325.00	2-0	2-2	2-4	2-7	2-10	3-1	3-4	3-7	3-10	4-1
350.00	2-4	2-6	2-9	3-0	3-3	3-6	3-10	4-2	4-6	4-9
375.00	2-8	2-10	3-2	3-5	3-9	4-1	4-5	4-9	5-1	5-6
400.00	3-0	3-3	3-7	3-11	4-3	4-7	5-0	5-5	5-10	6-3
425.00	3-5	3-8	4-0	4-5	4-9	5-3	5-8	6-1	6-7	7-1
450.00	3-10	4-2	4-6	4-11	5-4	5-10	6-4	6-10	7-5	7-11
475.00	4-3	4-7	5-0	5-6	6-0	6-6	7-1	7-8	8-3	8-10
500.00	4-8	5-1	5-7	6-1	6-7	7-3	7-10	8-6	9-1	9-9


Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-7	1-9	1-10
225.00	1-1	1-3	1-4	1-6	1-7	1-9	1-11	2-0	2-2	2-4
250.00	1-4	1-6	1-8	1-10	2-0	2-2	2-4	2-6	2-8	2-10
275.00	1-8	1-10	2-0	2-3	2-5	2-8	2-10	3-1	3-3	3-5
300.00	2-0	2-2	2-5	2-8	2-11	3-2	3-5	3-7	3-10	4-1
325.00	2-4	2-7	2-10	3-1	3-5	3-8	4-0	4-3	4-6	4-10
350.00	2-8	3-0	3-3	3-7	3-11	4-3	4-7	4-11	5-3	5-7
375.00	3-1	3-5	3-9	4-2	4-6	4-11	5-3	5-8	6-0	6-5
400.00	3-6	3-11	4-3	4-8	5-2	5-7	6-0	6-5	6-10	7-3
425.00	4-0	4-5	4-10	5-4	5-10	6-4	6-9	7-3	7-9	8-3
450.00	4-5	4-11	5-5	5-11	6-6	7-1	7-7	8-2	8-8	9-3
475.00	4-11	5-6	6-0	6-8	7-3	7-10	8-6	9-1	9-8	10-3
500.00	5-6	6-1	6-8	7-4	8-0	8-9	9-5	10-1	10-9	11-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>88 OF 145</div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH814.88
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING #2 - 5/2 AWAC TENSION 1200 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.521	2.01	1295	1.63	1600*
20	0	0	0	0.111	0.40	1377	0.33	1700
30	0	0	0	0.111	0.43	1280	0.34	1638
40	0	0	0	0.111	0.47	1184	0.35	1574
50	0	0	0	0.111	0.51	1088	0.37	1510
60	0	0	0	0.111	0.56	993	0.38	1444
70	0	0	0	0.111	0.62	899	0.40	1378
80	0	0	0	0.111	0.69	806	0.42	1310
90	0	0	0	0.111	0.78	715	0.45	1242
100	0	0	0	0.111	0.89	627	0.47	1172
110	0	0	0	0.111	1.02	543	0.50	1102
120	0	0	0	0.111	1.19	466	0.54	1031
130	0	0	0	0.111	1.40	397	0.58	959
167	0	0	0	0.111	2.37	234	0.80	692
212	0	0	0	0.111	3.51	158	1.41	394
* Design Condition								

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>90 OF 145</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH814.90</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING</p> <p>#2 - 5/2 AWAC TENSION 1600 LBS</p> </div>				

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.521	10.39	1568	10.19	1600*
20	0	0	0	0.111	3.39	1022	2.82	1231
30	0	0	0	0.111	3.68	942	2.97	1166
40	0	0	0	0.111	4.01	866	3.15	1102
50	0	0	0	0.111	4.37	794	3.34	1037
60	0	0	0	0.111	4.77	728	3.56	974
70	0	0	0	0.111	5.20	667	3.81	911
80	0	0	0	0.111	5.66	613	4.08	850
90	0	0	0	0.111	6.15	565	4.38	792
100	0	0	0	0.111	6.65	522	4.72	736
110	0	0	0	0.111	7.15	485	5.08	683
120	0	0	0	0.111	7.66	453	5.47	634
130	0	0	0	0.111	8.17	425	5.89	589
167	0	0	0	0.111	9.98	348	7.60	457
212	0	0	0	0.111	11.99	290	9.72	357
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>92 OF 145</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH814.92</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>#2 - 5/2 AWAC TENSION 1600 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-5
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7
175.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-8	0-9
200.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

SHEET 93 OF 145	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH814.93
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING #2 - 5/2 AWAC TENSION 1600 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5
200.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6
225.00	0-5	0-5	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-8
250.00	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7
175.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9
200.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-11	1-0
225.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	1-0	1-1	1-4
250.00	0-8	0-8	0-9	0-10	0-10	1-0	1-1	1-3	1-5	1-7

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div>SHEET</div> <div>94 OF 145</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH814.94
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING #2 - 5/2 AWAC TENSION 1600 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5
200.00	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7
225.00	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-9
250.00	0-7	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11
275.00	0-8	0-8	0-9	0-9	0-9	0-10	0-11	0-11	1-0	1-1
300.00	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3
325.00	0-11	1-0	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6
350.00	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-9
375.00	1-3	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	2-0

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-6	0-7
175.00	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10
200.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-1
225.00	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-1	1-2	1-4
250.00	0-8	0-9	0-9	0-10	0-11	1-0	1-2	1-3	1-5	1-8
275.00	0-10	0-10	0-11	1-0	1-2	1-3	1-5	1-7	1-9	2-0
300.00	1-0	1-0	1-2	1-3	1-4	1-6	1-8	1-10	2-1	2-4
325.00	1-2	1-3	1-4	1-5	1-7	1-9	1-11	2-2	2-6	2-9
350.00	1-4	1-5	1-6	1-8	1-10	2-0	2-3	2-6	2-10	3-3
375.00	1-6	1-7	1-9	1-11	2-1	2-4	2-7	2-11	3-3	3-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div>SHEET</div> <div>95 OF 145</div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	OH814.95
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING #2 - 5/2 AWAC TENSION 1600 LBS						

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8
225.00	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10
250.00	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-0
275.00	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-2	1-3
300.00	0-10	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-5	1-6
325.00	1-0	1-1	1-2	1-2	1-3	1-4	1-5	1-6	1-8	1-9
350.00	1-2	1-3	1-4	1-5	1-5	1-7	1-8	1-9	1-11	2-0
375.00	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-2	2-4
400.00	1-7	1-7	1-8	1-10	1-11	2-0	2-2	2-4	2-6	2-8
425.00	1-9	1-10	1-11	2-0	2-2	2-3	2-5	2-7	2-9	3-0
450.00	2-0	2-1	2-2	2-3	2-5	2-7	2-9	2-11	3-1	3-4
475.00	2-2	2-3	2-5	2-6	2-8	2-10	3-0	3-3	3-6	3-9
500.00	2-5	2-6	2-8	2-10	3-0	3-2	3-4	3-7	3-10	4-2

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1
225.00	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-5
250.00	0-9	0-10	0-10	0-11	1-0	1-2	1-3	1-5	1-7	1-8
275.00	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-10	2-1
300.00	1-1	1-2	1-3	1-4	1-6	1-8	1-10	2-0	2-3	2-5
325.00	1-3	1-4	1-6	1-7	1-9	1-11	2-2	2-4	2-7	2-11
350.00	1-5	1-7	1-8	1-10	2-0	2-3	2-6	2-9	3-0	3-4
375.00	1-8	1-10	1-11	2-2	2-4	2-7	2-10	3-2	3-6	3-10
400.00	1-11	2-0	2-3	2-5	2-8	2-11	3-3	3-7	4-0	4-4
425.00	2-2	2-4	2-6	2-9	3-0	3-4	3-8	4-1	4-6	4-11
450.00	2-5	2-7	2-10	3-1	3-4	3-9	4-1	4-6	5-0	5-6
475.00	2-8	2-11	3-2	3-5	3-9	4-2	4-7	5-1	5-7	6-2
500.00	2-11	3-2	3-6	3-9	4-2	4-7	5-1	5-7	6-2	6-10

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[illegible]

* Design Condition

* Design Condition

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 98 OF 145		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH814.98
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING #2 - 5/2 AWAC TENSION 1600 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	0.521	10.19	1600	10.19	1600*
0	0	0	0	0.111	3.48	998	2.97	1166
30	0	0	0	0.111	4.48	774	3.56	974
40	0	0	0	0.111	4.89	709	3.81	911
50	0	0	0	0.111	5.33	651	4.08	850
60	0	0	0	0.111	5.8	598	4.38	792
70	0	0	0	0.111	6.29	552	4.72	736
80	0	0	0	0.111	6.8	511	5.08	683
90	0	0	0	0.111	7.3	475	5.47	634
100	0	0	0	0.111	7.81	444	5.89	589
110	0	0	0	0.111	8.32	417	6.34	548
120	0	0	0	0.111	8.82	394	6.79	511
130	0	0	0	0.111	9.31	373	7.26	478
167	0	0	0	0.111	11.03	315	9.02	385
212	0	0	0	0.111	12.93	269	11.06	314

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 100 OF 145		Indicates Latest Revision			Completely Revised		X	New Page		Information Removed		OH814.100
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING #2 - 5/2 AWAC TENSION 1600 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
150.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
175.00	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5
200.00	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
100.00	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-4
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6
150.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-9
175.00	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-10	1-0
200.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-11	1-1	1-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> SHEET 101 OF 145 </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH814.101
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING #2 - 5/2 AWAC TENSION 1600 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
150.00	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4
175.00	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6
200.00	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-8
225.00	0-6	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10
250.00	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-11	1-0

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-4
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6
150.00	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-9
175.00	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-9	0-10	1-0
200.00	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-3
225.00	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-7
250.00	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-5	1-8	2-0

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Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7
200.00	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9
225.00	0-6	0-6	0-7	0-7	0-7	0-8	0-9	0-9	0-10	0-11
250.00	0-7	0-8	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-1
275.00	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4
300.00	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-6	1-7
325.00	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-11
350.00	1-3	1-3	1-4	1-5	1-6	1-7	1-9	1-10	2-0	2-2
375.00	1-5	1-6	1-7	1-8	1-9	1-10	2-0	2-2	2-4	2-6

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-8
175.00	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0
200.00	0-6	0-6	0-7	0-8	0-8	0-9	0-10	1-0	1-1	1-3
225.00	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-5	1-7
250.00	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-6	1-9	2-0
275.00	0-11	1-0	1-1	1-2	1-4	1-6	1-8	1-10	2-1	2-5
300.00	1-1	1-2	1-3	1-5	1-7	1-9	2-0	2-3	2-6	2-10
325.00	1-3	1-5	1-6	1-8	1-10	2-1	2-4	2-7	2-11	3-4
350.00	1-6	1-7	1-9	1-11	2-2	2-5	2-8	3-0	3-5	3-10
375.00	1-8	1-10	2-0	2-2	2-5	2-9	3-1	3-6	3-11	4-5

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10
225.00	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-1
250.00	0-8	0-9	0-9	0-10	0-11	1-0	1-0	1-1	1-3	1-4
275.00	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7
300.00	1-0	1-1	1-2	1-2	1-3	1-5	1-6	1-7	1-9	1-11
325.00	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-11	2-1	2-3
350.00	1-5	1-5	1-7	1-8	1-9	1-11	2-0	2-2	2-5	2-7
375.00	1-7	1-8	1-9	1-11	2-0	2-2	2-4	2-6	2-9	3-0
400.00	1-10	1-11	2-0	2-2	2-4	2-6	2-8	2-10	3-1	3-5
425.00	2-0	2-2	2-3	2-5	2-7	2-9	3-0	3-3	3-6	3-10
450.00	2-3	2-5	2-7	2-9	2-11	3-1	3-4	3-8	3-11	4-4
475.00	2-6	2-8	2-10	3-0	3-3	3-6	3-9	4-1	4-5	4-9
500.00	2-10	3-0	3-2	3-4	3-7	3-10	4-2	4-6	4-10	5-4

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-1	1-2	1-3
225.00	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-6	1-7
250.00	0-10	0-11	1-0	1-1	1-3	1-4	1-6	1-8	1-10	2-0
275.00	1-0	1-1	1-3	1-4	1-6	1-8	1-10	2-0	2-2	2-5
300.00	1-3	1-4	1-5	1-7	1-9	1-11	2-2	2-4	2-7	2-10
325.00	1-5	1-7	1-8	1-10	2-1	2-3	2-6	2-9	3-1	3-4
350.00	1-8	1-10	2-0	2-2	2-5	2-8	2-11	3-3	3-7	3-11
375.00	1-11	2-1	2-3	2-6	2-9	3-0	3-4	3-8	4-1	4-5
400.00	2-2	2-4	2-7	2-10	3-1	3-5	3-10	4-3	4-8	5-1
425.00	2-5	2-8	2-11	3-2	3-6	3-11	4-4	4-9	5-3	5-9
450.00	2-9	3-0	3-3	3-7	3-11	4-4	4-10	5-4	5-10	6-5
475.00	3-0	3-4	3-7	4-0	4-5	4-10	5-5	5-11	6-6	7-2
500.00	3-4	3-8	4-0	4-5	4-11	5-5	6-0	6-7	7-3	7-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div>SHEET</div> <div>104 OF 145</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH814.104
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING #2 - 5/2 AWAC TENSION 1600 LBS					

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	0.521	1.68	1546	1.45	1800*
0	0	0	0	0.111	0.35	1594	0.30	1853
30	0	0	0	0.111	0.43	1303	0.33	1671
40	0	0	0	0.111	0.46	1207	0.34	1609
50	0	0	0	0.111	0.50	1111	0.36	1545
60	0	0	0	0.111	0.55	1016	0.38	1480
70	0	0	0	0.111	0.60	921	0.39	1414
80	0	0	0	0.111	0.67	828	0.41	1347
90	0	0	0	0.111	0.75	736	0.43	1279
100	0	0	0	0.111	0.86	647	0.46	1210
110	0	0	0	0.111	0.99	562	0.49	1140
120	0	0	0	0.111	1.15	483	0.52	1069
130	0	0	0	0.111	1.35	412	0.56	998
167	0	0	0	0.111	2.31	241	0.76	731
212	0	0	0	0.111	3.46	161	1.30	425
* Design Condition								


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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 106 OF 145		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH814.106
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING #2 - 5/2 AWAC TENSION 1800 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	0.521	9.17	1776	9.05	1800*
0	0	0	0	0.111	2.66	1302	2.31	1499
30	0	0	0	0.111	3.33	1042	2.65	1307
40	0	0	0	0.111	3.61	961	2.79	1242
50	0	0	0	0.111	3.92	884	2.95	1177
60	0	0	0	0.111	4.28	811	3.12	1113
70	0	0	0	0.111	4.67	744	3.31	1048
80	0	0	0	0.111	5.09	682	3.52	985
90	0	0	0	0.111	5.55	626	3.76	922
100	0	0	0	0.111	6.02	576	4.03	861
110	0	0	0	0.111	6.52	532	4.33	802
120	0	0	0	0.111	7.03	494	4.66	745
130	0	0	0	0.111	7.54	461	5.01	692
167	0	0	0	0.111	9.39	370	6.58	528
212	0	0	0	0.111	11.45	304	8.71	399
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>108 OF 145</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH814.108</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING</p> <p>#2 - 5/2 AWAC TENSION 1800 LBS</p> </div>				

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9
200.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> SHEET 109 OF 145 </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH814.109
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING #2 - 5/2 AWAC TENSION 1800 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6
225.00	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-7
250.00	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7
175.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9
200.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	1-0
225.00	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-1	1-3
250.00	0-7	0-8	0-9	0-9	0-10	0-11	1-1	1-2	1-4	1-7

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Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5
200.00	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6
225.00	0-5	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-8	0-8
250.00	0-6	0-7	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10
275.00	0-8	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0
300.00	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2
325.00	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-3	1-4	1-5
350.00	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7
375.00	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7
175.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9
200.00	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-11	1-0
225.00	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-3
250.00	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-5	1-7
275.00	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-6	1-8	1-11
300.00	0-11	1-0	1-1	1-2	1-4	1-5	1-7	1-9	2-0	2-3
325.00	1-1	1-2	1-3	1-5	1-6	1-8	1-10	2-1	2-4	2-8
350.00	1-3	1-4	1-6	1-7	1-9	1-11	2-2	2-5	2-8	3-1
375.00	1-6	1-7	1-8	1-10	2-0	2-3	2-6	2-9	3-1	3-6

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Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7
225.00	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9
250.00	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11
275.00	0-8	0-9	0-9	0-9	0-10	0-10	0-11	1-0	1-1	1-1
300.00	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-3	1-4
325.00	1-0	1-0	1-1	1-1	1-2	1-3	1-4	1-4	1-6	1-7
350.00	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-8	1-10
375.00	1-3	1-4	1-5	1-6	1-6	1-8	1-9	1-10	1-11	2-1
400.00	1-5	1-6	1-7	1-8	1-9	1-10	2-0	2-1	2-3	2-5
425.00	1-8	1-9	1-10	1-11	2-0	2-1	2-3	2-4	2-6	2-8
450.00	1-10	1-11	2-0	2-1	2-3	2-4	2-6	2-8	2-10	3-0
475.00	2-1	2-2	2-3	2-4	2-6	2-7	2-9	2-11	3-2	3-4
500.00	2-3	2-4	2-6	2-7	2-9	2-11	3-1	3-3	3-6	3-9

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0
225.00	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-1	1-2	1-3
250.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-7
275.00	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-9	1-11
300.00	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-10	2-1	2-3
325.00	1-2	1-3	1-4	1-6	1-8	1-10	2-0	2-2	2-5	2-8
350.00	1-4	1-6	1-7	1-9	1-11	2-1	2-4	2-7	2-10	3-1
375.00	1-7	1-8	1-10	2-0	2-2	2-5	2-8	2-11	3-3	3-7
400.00	1-9	1-11	2-1	2-3	2-6	2-9	3-0	3-4	3-8	4-1
425.00	2-0	2-2	2-4	2-7	2-10	3-1	3-5	3-9	4-2	4-7
450.00	2-3	2-5	2-8	2-10	3-2	3-5	3-10	4-3	4-8	5-2
475.00	2-6	2-9	2-11	3-2	3-6	3-10	4-3	4-8	5-2	5-9
500.00	2-9	3-0	3-3	3-7	3-11	4-3	4-8	5-2	5-9	6-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>112 OF 145</div>		Indicates Latest Revision			Completely Revised	X	New Page	Information Removed			OH814.112
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING #2 - 5/2 AWAC TENSION 1800 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	0.873	3.64	1200	3.64	1200*
20	0	0	0	0.111	0.70	798	0.62	897
30	0	0	0	0.111	0.78	707	0.67	825
40	0	0	0	0.111	0.90	619	0.74	753
50	0	0	0	0.111	1.04	536	0.82	681
60	0	0	0	0.111	1.21	459	0.91	610
70	0	0	0	0.111	1.42	391	1.03	541
80	0	0	0	0.111	1.66	334	1.17	475
90	0	0	0	0.111	1.93	288	1.34	414
100	0	0	0	0.111	2.20	252	1.54	359
110	0	0	0	0.111	2.48	224	1.78	313
120	0	0	0	0.111	2.75	202	2.03	274
130	0	0	0	0.111	3.00	185	2.28	243
167	0	0	0	0.111	3.87	144	3.22	173
212	0	0	0	0.111	4.75	117	4.19	133
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 114 OF 145		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH814.114
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING #2 - 5/2 AWAC TENSION 1200 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	0.873	14.63	1200	14.63	1200*
20	0	0	0	0.111	10.91	204	10.02	222
30	0	0	0	0.111	11.22	199	10.35	215
40	0	0	0	0.111	11.52	193	10.67	209
50	0	0	0	0.111	11.81	189	10.98	203
60	0	0	0	0.111	12.10	184	11.28	197
70	0	0	0	0.111	12.38	180	11.58	192
80	0	0	0	0.111	12.66	176	11.87	188
90	0	0	0	0.111	12.93	172	12.15	183
100	0	0	0	0.111	13.20	169	12.43	179
110	0	0	0	0.111	13.46	166	12.70	175
120	0	0	0	0.111	13.72	163	12.97	172
130	0	0	0	0.111	13.97	160	13.24	168
167	0	0	0	0.111	14.88	150	14.18	157
212	0	0	0	0.111	15.91	140	15.25	146

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>115 OF 145</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH814.115</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING</p> <p>#2 - 5/2 AWAC TENSION 1200 LBS</p> </div>						

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	0.873	22.93	1200	22.93	1200*
20	0	0	0	0.111	19.34	180	18.53	188
30	0	0	0	0.111	19.63	178	18.82	185
40	0	0	0	0.111	19.91	175	19.11	183
50	0	0	0	0.111	20.18	173	19.39	180
60	0	0	0	0.111	20.45	171	19.67	177
70	0	0	0	0.111	20.72	169	19.95	175
80	0	0	0	0.111	20.99	166	20.22	173
90	0	0	0	0.111	21.25	164	20.49	170
100	0	0	0	0.111	21.51	162	20.76	168
110	0	0	0	0.111	21.77	161	21.03	166
120	0	0	0	0.111	22.02	159	21.29	164
130	0	0	0	0.111	22.27	157	21.55	162
167	0	0	0	0.111	23.18	151	22.48	156
212	0	0	0	0.111	24.24	144	23.56	149

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>116 OF 145</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH814.116</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING</p> <p>#2 - 5/2 AWAC TENSION 1200 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
100.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3
125.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6
175.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8
200.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-4
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6
125.00	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-8	0-10
150.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-9	0-11	1-2
175.00	0-5	0-5	0-6	0-6	0-7	0-8	0-10	1-0	1-3	1-7
200.00	0-6	0-7	0-7	0-8	0-9	0-11	1-1	1-4	1-8	2-1

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> SHEET 117 OF 145 </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH814.117
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING #2 - 5/2 AWAC TENSION 1200 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-5
125.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8
150.00	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0
175.00	0-6	0-6	0-7	0-7	0-8	0-9	0-11	1-0	1-2	1-4
200.00	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-7	1-9
225.00	0-9	0-10	0-11	1-0	1-2	1-4	1-6	1-8	1-11	2-3
250.00	1-0	1-1	1-2	1-3	1-5	1-7	1-10	2-1	2-5	2-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-7
125.00	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-10	1-0
150.00	0-5	0-5	0-6	0-7	0-8	0-10	0-11	1-1	1-3	1-5
175.00	0-6	0-7	0-8	0-10	0-11	1-1	1-3	1-6	1-8	1-11
200.00	0-8	0-9	0-11	1-0	1-3	1-5	1-8	1-11	2-2	2-6
225.00	0-11	1-0	1-2	1-4	1-6	1-10	2-1	2-5	2-9	3-2
250.00	1-1	1-3	1-5	1-7	1-11	2-3	2-7	3-0	3-5	3-10

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Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7
175.00	1-2	1-3	1-4	1-6	1-7	1-9	1-10	1-11	2-0	2-2
200.00	1-6	1-8	1-9	1-11	2-1	2-3	2-4	2-6	2-8	2-9
225.00	1-11	2-1	2-3	2-5	2-8	2-10	3-0	3-2	3-4	3-6
250.00	2-4	2-7	2-9	3-0	3-3	3-6	3-9	3-11	4-2	4-4
275.00	2-10	3-1	3-5	3-8	3-11	4-3	4-6	4-9	5-0	5-3
300.00	3-4	3-8	4-0	4-4	4-8	5-0	5-4	5-8	5-11	6-3
325.00	3-11	4-4	4-9	5-1	5-6	5-11	6-3	6-8	7-0	7-4
350.00	4-7	5-0	5-6	5-11	6-5	6-10	7-3	7-8	8-1	8-6
375.00	5-3	5-9	6-3	6-10	7-4	7-10	8-4	8-10	9-4	9-9

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-9
175.00	1-5	1-7	1-8	1-9	1-11	2-0	2-1	2-2	2-4	2-5
200.00	1-11	2-0	2-2	2-4	2-6	2-7	2-9	2-11	3-0	3-1
225.00	2-5	2-7	2-9	2-11	3-2	3-4	3-6	3-8	3-10	3-11
250.00	2-11	3-2	3-5	3-8	3-10	4-1	4-4	4-6	4-8	4-11
275.00	3-7	3-10	4-2	4-5	4-8	4-11	5-2	5-5	5-8	5-11
300.00	4-3	4-7	4-11	5-3	5-7	5-11	6-2	6-6	6-9	7-0
325.00	4-11	5-4	5-9	6-2	6-7	6-11	7-3	7-7	7-11	8-3
350.00	5-9	6-3	6-8	7-2	7-7	8-0	8-5	8-10	9-2	9-7
375.00	6-7	7-2	7-8	8-3	8-9	9-2	9-8	10-2	10-7	11-0

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>119 OF 145</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH814.119
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING #2 - 5/2 AWAC TENSION 1200 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-0	3-1	3-2
225.00	3-2	3-3	3-4	3-6	3-7	3-8	3-9	3-10	3-11	4-0
250.00	3-11	4-0	4-2	4-3	4-5	4-6	4-8	4-9	4-10	5-0
275.00	4-9	4-11	5-0	5-2	5-4	5-6	5-7	5-9	5-10	6-0
300.00	5-8	5-10	6-0	6-2	6-4	6-6	6-8	6-10	7-0	7-2
325.00	6-7	6-10	7-0	7-3	7-5	7-8	7-10	8-0	8-2	8-5
350.00	7-8	7-11	8-2	8-5	8-8	8-10	9-1	9-4	9-6	9-9
375.00	8-10	9-1	9-4	9-8	9-11	10-2	10-5	10-8	10-11	11-2
400.00	10-0	10-4	10-8	11-0	11-3	11-7	11-10	12-2	12-5	12-8
425.00	11-4	11-8	12-1	12-5	12-9	13-1	13-5	13-9	14-0	14-4
450.00	12-8	13-1	13-6	13-11	14-3	14-8	15-0	15-5	15-9	16-1
475.00	14-2	14-7	15-1	15-6	15-11	16-4	16-9	17-2	17-6	17-11
500.00	15-8	16-2	16-8	17-2	17-8	18-1	18-7	19-0	19-5	19-10

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-9	2-10	2-11	2-1	1 3-	0 3-	1 3-2	3-3	3-4	3-4
225.00	3-5	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3
250.00	4-3	4-5	4-6	4-7	4-9	4-10	4-11	5-1	5-2	5-3
275.00	5-2	5-4	5-5	5-7	5-9	5-10	6-0	6-1	6-3	6-4
300.00	6-2	6-4	6-6	6-8	6-10	7-0	7-1	7-3	7-5	7-7
325.00	7-2	7-5	7-7	7-10	8-0	8-2	8-4	8-6	8-9	8-11
350.00	8-4	8-7	8-10	9-0	9-3	9-6	9-8	9-11	10-1	10-4
375.00	9-7	9-10	10-1	10-5	10-8	10-11	11-2	11-4	11-7	11-10
400.00	10-11	11-3	11-6	11-10	12-1	12-5	12-8	12-11	13-2	13-6
425.00	12-4	12-8	13-0	13-4	13-8	14-0	14-4	14-7	14-11	15-2
450.00	13-10	14-2	14-7	14-11	15-4	15-8	16-0	16-4	16-9	17-1
475.00	15-5	15-10	16-3	16-8	17-1	17-6	17-10	18-3	18-7	19-0
500.00	17-1	17-6	18-0	18-6	18-11	19-4	19-10	20-3	20-8	21-1

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>120 OF 145</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH814.120
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING #2 - 5/2 AWAC TENSION 1200 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-8	4-8	4-9	4-10	4-11	5-0	5-1	5-1	5-2	5-3
275.00	5-7	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4
300.00	6-8	6-9	6-10	7-0	7-1	7-2	7-3	7-4	7-6	7-7
325.00	7-10	7-11	8-1	8-2	8-4	8-5	8-6	8-8	8-9	8-10
350.00	9-1	9-3	9-4	9-6	9-8	9-9	9-11	10-0	10-2	10-3
375.00	10-5	10-7	10-9	10-11	11-1	11-3	11-4	11-6	11-8	11-10
400.00	11-10	12-0	12-3	12-5	12-7	12-9	12-11	13-1	13-3	13-5
425.00	13-5	13-7	13-10	14-0	14-2	14-5	14-7	14-10	15-0	15-2
450.00	15-0	15-3	15-6	15-8	15-11	16-2	16-5	16-7	16-10	17-0
475.00	16-9	17-0	17-3	17-6	17-9	18-0	18-3	18-6	18-9	19-0
500.00	18-6	18-10	19-1	19-5	19-8	19-11	20-3	20-6	20-9	21-0
525.00	20-5	20-9	21-1	21-5	21-8	22-0	22-4	22-7	22-11	23-2
550.00	22-5	22-9	23-2	23-6	23-10	24-2	24-6	24-10	25-2	25-5
575.00	24-6	24-11	25-3	25-8	26-0	26-5	26-9	27-1	27-6	27-10
600.00	26-8	27-1	27-6	27-11	28-4	28-9	29-2	29-6	29-11	30-4
625.00	29-0	29-5	29-11	30-4	30-9	31-3	31-8	32-1	32-6	32-11

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	4-10	4-11	5-0	5-0	5-1	5-2	5-3	5-4	5-4	5-5
275.00	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7
300.00	6-11	7-1	7-2	7-3	7-4	7-5	7-7	7-8	7-9	7-10
325.00	8-2	8-3	8-5	8-6	8-8	8-9	8-10	9-0	9-1	9-2
350.00	9-6	9-7	9-9	9-11	10-0	10-2	10-3	10-5	10-6	10-8
375.00	10-10	11-0	11-2	11-4	11-6	11-8	11-10	11-11	12-1	12-3
400.00	12-4	12-7	12-9	12-11	13-1	13-3	13-5	13-7	13-9	13-11
425.00	14-0	14-2	14-4	14-7	14-9	15-0	15-2	15-4	15-6	15-9
450.00	15-8	15-11	16-1	16-4	16-7	16-9	17-0	17-2	17-5	17-7
475.00	17-5	17-9	18-0	18-3	18-5	18-8	18-11	19-2	19-5	19-8
500.00	19-4	19-8	19-11	20-2	20-5	20-9	21-0	21-3	21-6	21-9
525.00	21-4	21-8	21-11	22-3	22-7	22-10	23-2	23-5	23-9	24-0
550.00	23-5	23-9	24-1	24-5	24-9	25-1	25-5	25-9	26-0	26-4
575.00	25-7	26-0	26-4	26-9	27-1	27-5	27-9	28-2	28-6	28-10
600.00	27-11	28-3	28-8	29-1	29-6	29-10	30-3	30-8	31-0	31-5
625.00	30-3	30-8	31-2	31-7	32-0	32-5	32-10	33-3	33-8	34-1

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>121 OF 145</h2> </div>		Indicates Latest Revision		Completely Revised	X	New Page	Information Removed		OH814.121		
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING #2 - 5/2 AWAC TENSION 1200 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	0.873	3.01	1450	2.73	1600*
20	0	0	0	0.111	0.44	1260	0.36	1531
30	0	0	0	0.111	0.48	1164	0.38	1466
40	0	0	0	0.111	0.52	1068	0.40	1400
50	0	0	0	0.111	0.57	973	0.42	1333
60	0	0	0	0.111	0.63	879	0.44	1264
70	0	0	0	0.111	0.71	787	0.46	1195
80	0	0	0	0.111	0.80	696	0.49	1125
90	0	0	0	0.111	0.91	609	0.53	1054
100	0	0	0	0.111	1.05	526	0.56	983
110	0	0	0	0.111	1.23	450	0.61	911
120	0	0	0	0.111	1.45	384	0.66	838
130	0	0	0	0.111	1.69	328	0.72	766
167	0	0	0	0.111	2.70	206	1.10	506
212	0	0	0	0.111	3.78	147	2.03	274
* Design Condition								

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 122 OF 145		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH814.122
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING #2 - 5/2 AWAC TENSION 1600 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	0.873	10.95	1600	10.95	1600*
20	0	0	0	0.111	4.30	516	3.05	728
30	0	0	0	0.111	4.72	470	3.32	669
40	0	0	0	0.111	5.16	431	3.62	614
50	0	0	0	0.111	5.60	397	3.95	563
60	0	0	0	0.111	6.04	368	4.31	516
70	0	0	0	0.111	6.47	344	4.69	474
80	0	0	0	0.111	6.89	323	5.08	437
90	0	0	0	0.111	7.31	304	5.49	405
100	0	0	0	0.111	7.71	288	5.90	376
110	0	0	0	0.111	8.10	275	6.31	352
120	0	0	0	0.111	8.48	262	6.72	331
130	0	0	0	0.111	8.85	251	7.12	312
167	0	0	0	0.111	10.13	220	8.54	261
212	0	0	0	0.111	11.54	193	10.09	221
* Design Condition								

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> SHEET 123 OF 145 </div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		<div style="text-align: center;"> OH814.123 </div>
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING #2 - 5/2 AWAC TENSION 1600 LBS									

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	0.873	17.14	1600	17.14	1600*
20	0	0	0	0.111	10.64	327	8.61	403
30	0	0	0	0.111	11.09	313	9.08	382
40	0	0	0	0.111	11.53	302	9.55	364
50	0	0	0	0.111	11.96	291	10.01	347
60	0	0	0	0.111	12.37	281	10.46	332
70	0	0	0	0.111	12.78	272	10.90	319
80	0	0	0	0.111	13.18	264	11.33	307
90	0	0	0	0.111	13.57	256	11.75	296
100	0	0	0	0.111	13.95	249	12.17	286
110	0	0	0	0.111	14.32	243	12.57	277
120	0	0	0	0.111	14.69	237	12.97	268
130	0	0	0	0.111	15.04	231	13.36	260
167	0	0	0	0.111	16.31	214	14.73	236
212	0	0	0	0.111	17.75	196	16.27	214

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>124 OF 145</h2> </div>		Indicates Latest Revision		Completely Revised	X	New Page	Information Removed		OH814.124		
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING #2 - 5/2 AWAC TENSION 1600 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span: 100.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5
200.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6

Stringing Sag Table Using Final Sag							Ruling Span: 100.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
100.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7
175.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-10
200.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-11	1-1

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING

#2 - 5/2 AWAC TENSION 1600 LBS

OH814.125

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
150.00	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4
175.00	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6
200.00	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7
225.00	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-9	0-9
250.00	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11	0-11

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-4
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6
150.00	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8
175.00	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-10	0-11
200.00	0-5	0-6	0-6	0-7	0-8	0-8	0-10	0-11	1-1	1-3
225.00	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-7
250.00	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-5	1-8	1-11

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>126 OF 145</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH814.126
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING #2 - 5/2 AWAC TENSION 1600 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6
175.00	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9
200.00	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11
225.00	0-7	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2
250.00	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-3	1-4	1-6
275.00	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-8	1-10
300.00	1-1	1-1	1-2	1-3	1-4	1-6	1-7	1-9	1-11	2-2
325.00	1-3	1-4	1-5	1-6	1-7	1-9	1-11	2-1	2-3	2-6
350.00	1-5	1-6	1-7	1-9	1-10	2-0	2-2	2-5	2-8	2-11
375.00	1-8	1-9	1-10	2-0	2-2	2-4	2-6	2-9	3-0	3-4

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10
175.00	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-2
200.00	0-7	0-7	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-6
225.00	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-6	1-8	1-11
250.00	0-10	0-11	1-1	1-2	1-4	1-6	1-8	1-10	2-1	2-4
275.00	1-0	1-2	1-3	1-5	1-7	1-9	2-0	2-3	2-7	2-10
300.00	1-3	1-4	1-6	1-8	1-10	2-1	2-5	2-8	3-0	3-5
325.00	1-5	1-7	1-9	2-0	2-2	2-6	2-10	3-2	3-7	4-0
350.00	1-8	1-10	2-1	2-3	2-7	2-11	3-3	3-8	4-2	4-7
375.00	1-11	2-1	2-4	2-7	2-11	3-4	3-9	4-3	4-9	5-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>127 OF 145</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH814.127
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING #2 - 5/2 AWAC TENSION 1600 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span:	400.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7
225.00	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-9	1-10	2-0
250.00	1-2	1-4	1-5	1-7	1-8	1-10	2-0	2-2	2-4	2-6
275.00	1-5	1-7	1-9	1-10	2-0	2-3	2-5	2-7	2-9	3-0
300.00	1-9	1-10	2-0	2-3	2-5	2-8	2-10	3-1	3-4	3-7
325.00	2-0	2-2	2-5	2-7	2-10	3-1	3-4	3-7	3-11	4-2
350.00	2-4	2-6	2-9	3-0	3-4	3-7	3-11	4-2	4-6	4-10
375.00	2-8	2-11	3-2	3-6	3-9	4-1	4-6	4-10	5-2	5-7
400.00	3-1	3-4	3-7	3-11	4-4	4-8	5-1	5-6	5-11	6-4
425.00	3-5	3-9	4-1	4-5	4-10	5-3	5-9	6-2	6-8	7-2
450.00	3-10	4-2	4-7	5-0	5-5	5-11	6-5	6-11	7-6	8-0
475.00	4-4	4-8	5-1	5-7	6-1	6-7	7-2	7-9	8-4	8-11
500.00	4-9	5-2	5-8	6-2	6-9	7-4	7-11	8-7	9-3	9-10

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-1	1-2	1-3	1-5	1-6	1-7	1-9	1-10	1-11	2-0
225.00	1-4	1-6	1-8	1-9	1-11	2-1	2-2	2-4	2-5	2-7
250.00	1-8	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-0	3-2
275.00	2-0	2-3	2-5	2-8	2-10	3-1	3-3	3-5	3-8	3-10
300.00	2-5	2-8	2-11	3-2	3-5	3-8	3-11	4-1	4-4	4-7
325.00	2-10	3-1	3-5	3-8	4-0	4-3	4-7	4-10	5-1	5-4
350.00	3-4	3-7	3-11	4-3	4-7	4-11	5-3	5-7	5-11	6-2
375.00	3-9	4-2	4-6	4-11	5-4	5-8	6-1	6-5	6-9	7-1
400.00	4-4	4-9	5-2	5-7	6-0	6-6	6-11	7-4	7-8	8-1
425.00	4-10	5-4	5-10	6-4	6-10	7-4	7-9	8-3	8-8	9-2
450.00	5-5	6-0	6-6	7-1	7-8	8-2	8-9	9-3	9-9	10-3
475.00	6-1	6-8	7-3	7-11	8-6	9-1	9-9	10-4	10-10	11-5
500.00	6-9	7-5	8-1	8-9	9-5	10-1	10-9	11-5	12-1	12-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>128 OF 145</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH814.128
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING #2 - 5/2 AWAC TENSION 1600 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 130 OF 145		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH814.130
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING #2 - 5/2 AWAC TENSION 1600 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	0.873	10.95	1600	10.95	1600*
0	0	0	0	0.111	4.72	470	3.32	669
30	0	0	0	0.111	6.04	368	4.31	516
40	0	0	0	0.111	6.47	344	4.69	474
50	0	0	0	0.111	6.89	323	5.08	437
60	0	0	0	0.111	7.31	304	5.49	405
70	0	0	0	0.111	7.71	288	5.9	376
80	0	0	0	0.111	8.1	275	6.31	352
90	0	0	0	0.111	8.48	262	6.72	331
100	0	0	0	0.111	8.85	251	7.12	312
110	0	0	0	0.111	9.21	242	7.52	296
120	0	0	0	0.111	9.56	233	7.9	281
130	0	0	0	0.111	9.9	225	8.28	269
167	0	0	0	0.111	11.09	201	9.59	232
212	0	0	0	0.111	12.41	180	11.04	202
* Design Condition								

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C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D						
SHEET 131 OF 145		Indicates Latest Revision			Completely Revised		X	New Page		Information Removed		OH814.131
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING #2 - 5/2 AWAC TENSION 1600 LBS										

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	0.873	17.14	1600	17.14	1600*
0	0	0	0	0.111	11.09	313	9.08	382
30	0	0	0	0.111	12.37	281	10.46	332
40	0	0	0	0.111	12.78	272	10.9	319
50	0	0	0	0.111	13.18	264	11.33	307
60	0	0	0	0.111	13.57	256	11.75	296
70	0	0	0	0.111	13.95	249	12.17	286
80	0	0	0	0.111	14.32	243	12.57	277
90	0	0	0	0.111	14.69	237	12.97	268
100	0	0	0	0.111	15.04	231	13.36	260
110	0	0	0	0.111	15.4	226	13.74	253
120	0	0	0	0.111	15.74	221	14.11	247
130	0	0	0	0.111	16.08	217	14.47	240
167	0	0	0	0.111	17.28	202	15.77	221
212	0	0	0	0.111	18.65	187	17.23	202

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 132 OF 145		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH814.132	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING #2 - 5/2 AWAC TENSION 1600 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
150.00	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4
175.00	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6
200.00	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
100.00	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-4
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6
150.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-8	0-9
175.00	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-9	0-10	1-1
200.00	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> SHEET 133 OF 145 </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH814.133
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING #2 - 5/2 AWAC TENSION 1600 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5
175.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7
200.00	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-10
225.00	0-6	0-7	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-0
250.00	0-8	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-2	1-3

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5
125.00	0-2	0-3	0-3	0-3	0-3	0-4	0-5	0-5	0-6	0-7
150.00	0-3	0-4	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-11
175.00	0-5	0-5	0-5	0-6	0-7	0-8	0-9	0-10	1-0	1-2
200.00	0-6	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-4	1-7
225.00	0-8	0-8	0-9	0-10	0-11	1-1	1-3	1-5	1-8	2-0
250.00	0-9	0-10	0-11	1-0	1-2	1-4	1-6	1-9	2-1	2-5

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>134 OF 145</h2> </div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH814.134
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING #2 - 5/2 AWAC TENSION 1600 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9
175.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0
200.00	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-1	1-2	1-4
225.00	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-6	1-8
250.00	0-11	0-11	1-0	1-1	1-3	1-4	1-6	1-8	1-10	2-1
275.00	1-1	1-2	1-3	1-4	1-6	1-8	1-10	2-0	2-3	2-6
300.00	1-3	1-4	1-6	1-7	1-9	1-11	2-2	2-5	2-8	2-11
325.00	1-6	1-7	1-9	1-11	2-1	2-3	2-6	2-10	3-1	3-5
350.00	1-9	1-10	2-0	2-2	2-5	2-8	2-11	3-3	3-7	4-0
375.00	2-0	2-2	2-4	2-6	2-9	3-0	3-4	3-9	4-2	4-7

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1
175.00	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-5	1-6
200.00	0-9	0-10	0-11	1-1	1-2	1-4	1-6	1-8	1-10	2-0
225.00	0-11	1-1	1-2	1-4	1-6	1-8	1-11	2-1	2-4	2-6
250.00	1-2	1-4	1-5	1-8	1-10	2-1	2-4	2-7	2-10	3-1
275.00	1-5	1-7	1-9	2-0	2-3	2-6	2-10	3-2	3-5	3-9
300.00	1-8	1-10	2-1	2-4	2-8	3-0	3-4	3-9	4-1	4-5
325.00	1-11	2-2	2-6	2-9	3-2	3-6	3-11	4-4	4-10	5-3
350.00	2-3	2-6	2-10	3-3	3-8	4-1	4-7	5-1	5-7	6-1
375.00	2-7	2-11	3-3	3-8	4-2	4-8	5-3	5-10	6-5	6-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 135 OF 145		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH814.135
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING #2 - 5/2 AWAC TENSION 1600 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-8	1-9	1-11
225.00	1-3	1-4	1-6	1-7	1-9	1-10	2-0	2-2	2-3	2-5
250.00	1-7	1-8	1-10	2-0	2-2	2-4	2-6	2-8	2-9	2-11
275.00	1-10	2-0	2-3	2-5	2-7	2-9	3-0	3-2	3-4	3-7
300.00	2-3	2-5	2-8	2-10	3-1	3-4	3-7	3-9	4-0	4-3
325.00	2-7	2-10	3-1	3-4	3-7	3-11	4-2	4-5	4-8	5-0
350.00	3-0	3-4	3-7	3-11	4-2	4-6	4-10	5-2	5-5	5-9
375.00	3-6	3-9	4-1	4-6	4-10	5-2	5-7	5-11	6-3	6-7
400.00	3-11	4-4	4-8	5-1	5-6	5-11	6-4	6-9	7-1	7-6
425.00	4-5	4-10	5-3	5-9	6-2	6-8	7-2	7-7	8-1	8-6
450.00	5-0	5-5	5-11	6-5	6-11	7-6	8-0	8-6	9-0	9-6
475.00	5-7	6-1	6-7	7-2	7-9	8-4	8-11	9-6	10-1	10-7
500.00	6-2	6-9	7-4	7-11	8-7	9-3	9-10	10-6	11-2	11-9


Stringing Sag Table Using Final Sag							Ruling Span:	400.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-5	1-6	1-7	1-9	1-10	1-11	2-0	2-1	2-3	2-4
225.00	1-9	1-11	2-1	2-2	2-4	2-5	2-7	2-8	2-10	2-11
250.00	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-5	3-7
275.00	2-8	2-10	3-1	3-3	3-5	3-8	3-10	4-0	4-2	4-4
300.00	3-2	3-5	3-8	3-11	4-1	4-4	4-7	4-9	5-0	5-2
325.00	3-8	4-0	4-3	4-7	4-10	5-1	5-4	5-7	5-10	6-1
350.00	4-3	4-7	4-11	5-3	5-7	5-11	6-2	6-6	6-9	7-1
375.00	4-11	5-4	5-8	6-1	6-5	6-9	7-1	7-5	7-9	8-1
400.00	5-7	6-0	6-6	6-11	7-4	7-8	8-1	8-6	8-10	9-3
425.00	6-4	6-10	7-4	7-9	8-3	8-8	9-2	9-7	10-0	10-5
450.00	7-1	7-8	8-2	8-9	9-3	9-9	10-3	10-9	11-2	11-8
475.00	7-11	8-6	9-1	9-9	10-4	10-10	11-5	12-0	12-6	13-0
500.00	8-9	9-5	10-1	10-9	11-5	12-1	12-8	13-3	13-10	14-5

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
SHEET 136 OF 145		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH814.136
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING #2 - 5/2 AWAC TENSION 1600 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	0.873	2.61	1672	2.43	1800*
0	0	0	0	0.111	0.37	1503	0.32	1726
30	0	0	0	0.111	0.46	1213	0.36	1538
40	0	0	0	0.111	0.50	1117	0.38	1473
50	0	0	0	0.111	0.54	1022	0.39	1407
60	0	0	0	0.111	0.60	927	0.41	1340
70	0	0	0	0.111	0.67	834	0.44	1271
80	0	0	0	0.111	0.75	742	0.46	1202
90	0	0	0	0.111	0.85	653	0.49	1132
100	0	0	0	0.111	0.98	568	0.52	1062
110	0	0	0	0.111	1.14	488	0.56	990
120	0	0	0	0.111	1.33	416	0.60	918
130	0	0	0	0.111	1.56	355	0.66	846
167	0	0	0	0.111	2.56	217	0.96	581
212	0	0	0	0.111	3.67	151	1.75	316
* Design Condition								


REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>138 OF 145</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH814.138</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING</p> <p>#2 - 5/2 AWAC TENSION 1800 LBS</p> </div>				

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	0.873	15.22	1800	15.22	1800*
0	0	0	0	0.111	7.45	466	5.12	678
30	0	0	0	0.111	8.96	387	6.38	544
40	0	0	0	0.111	9.45	368	6.84	507
50	0	0	0	0.111	9.93	350	7.31	475
60	0	0	0	0.111	10.39	334	7.79	446
70	0	0	0	0.111	10.85	320	8.26	420
80	0	0	0	0.111	11.29	308	8.74	397
90	0	0	0	0.111	11.73	296	9.21	377
100	0	0	0	0.111	12.15	286	9.67	359
110	0	0	0	0.111	12.56	277	10.13	343
120	0	0	0	0.111	12.96	268	10.58	329
130	0	0	0	0.111	13.36	260	11.02	316
167	0	0	0	0.111	14.74	236	12.56	277
212	0	0	0	0.111	16.30	214	14.28	244
* Design Condition								

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>140 OF 145</p> </div>	Indicates Latest Revision		Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH814.140</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING</p> <p>#2 - 5/2 AWAC TENSION 1800 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7
175.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-8	0-9
200.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> SHEET 141 OF 145 </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH814.141
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING #2 - 5/2 AWAC TENSION 1800 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3
150.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5
200.00	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7
225.00	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-9
250.00	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-3
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-5
150.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7	0-8
175.00	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-8	0-9	0-10
200.00	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-10	1-0	1-2
225.00	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-1	1-3	1-5
250.00	0-8	0-9	0-9	0-10	0-11	1-0	1-2	1-4	1-6	1-9

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> SHEET 142 OF 145 </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH814.142
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING #2 - 5/2 AWAC TENSION 1800 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7
200.00	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9
225.00	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0
250.00	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-1	1-2
275.00	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
300.00	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-7	1-9
325.00	1-1	1-2	1-3	1-3	1-4	1-6	1-7	1-8	1-10	2-0
350.00	1-3	1-4	1-5	1-6	1-7	1-8	1-10	2-0	2-2	2-4
375.00	1-5	1-6	1-7	1-9	1-10	1-11	2-1	2-3	2-6	2-8

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-4	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-9
175.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0
200.00	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-1	1-2	1-4
225.00	0-8	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-6	1-8
250.00	0-9	0-10	0-11	1-0	1-2	1-4	1-5	1-8	1-10	2-1
275.00	0-11	1-0	1-2	1-3	1-5	1-7	1-9	2-0	2-3	2-6
300.00	1-2	1-3	1-4	1-6	1-8	1-10	2-1	2-4	2-8	3-0
325.00	1-4	1-5	1-7	1-9	1-11	2-2	2-6	2-9	3-2	3-6
350.00	1-6	1-8	1-10	2-0	2-3	2-6	2-10	3-3	3-8	4-1
375.00	1-9	1-11	2-1	2-4	2-7	2-11	3-3	3-8	4-2	4-8

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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div>SHEET</div> <div>143 OF 145</div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH814.143	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING #2 - 5/2 AWAC TENSION 1800 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2
225.00	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-6
250.00	0-11	1-0	1-0	1-1	1-3	1-4	1-5	1-7	1-9	1-10
275.00	1-1	1-2	1-3	1-4	1-6	1-7	1-9	1-11	2-1	2-3
300.00	1-3	1-5	1-6	1-7	1-9	1-11	2-1	2-3	2-6	2-8
325.00	1-6	1-7	1-9	1-11	2-1	2-3	2-5	2-8	2-11	3-2
350.00	1-9	1-11	2-0	2-2	2-5	2-7	2-10	3-1	3-4	3-8
375.00	2-0	2-2	2-4	2-6	2-9	3-0	3-3	3-7	3-10	4-3
400.00	2-4	2-6	2-8	2-10	3-1	3-5	3-8	4-0	4-5	4-9
425.00	2-7	2-9	3-0	3-3	3-6	3-10	4-2	4-7	5-0	5-5
450.00	2-11	3-1	3-4	3-8	3-11	4-4	4-8	5-1	5-7	6-1
475.00	3-3	3-6	3-9	4-1	4-5	4-9	5-3	5-8	6-3	6-9
500.00	3-7	3-10	4-2	4-6	4-10	5-4	5-9	6-4	6-11	7-6

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-7	1-8	1-9
225.00	1-1	1-2	1-3	1-5	1-7	1-8	1-10	2-0	2-1	2-3
250.00	1-4	1-5	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9
275.00	1-7	1-9	1-11	2-1	2-4	2-6	2-9	2-11	3-2	3-4
300.00	1-11	2-1	2-4	2-6	2-9	3-0	3-3	3-6	3-9	4-0
325.00	2-2	2-5	2-8	3-0	3-3	3-6	3-10	4-1	4-5	4-8
350.00	2-7	2-10	3-1	3-5	3-9	4-1	4-5	4-9	5-1	5-5
375.00	2-11	3-3	3-7	3-11	4-4	4-9	5-1	5-6	5-10	6-3
400.00	3-4	3-8	4-1	4-6	4-11	5-4	5-10	6-3	6-8	7-1
425.00	3-9	4-2	4-7	5-1	5-7	6-1	6-7	7-0	7-6	8-0
450.00	4-3	4-8	5-2	5-8	6-3	6-9	7-4	7-11	8-5	9-0
475.00	4-8	5-3	5-9	6-4	6-11	7-7	8-2	8-10	9-5	10-0
500.00	5-3	5-9	6-5	7-0	7-8	8-5	9-1	9-9	10-5	11-1

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/16/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>144 OF 145</h2> </div>		Indicates Latest Revision		Completely Revised	X	New Page	Information Removed		OH814.144		
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING #2 - 5/2 AWAC TENSION 1800 LBS									

SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR #2 - 3/4 AWAC CONDUCTOR. CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

G.O. 95 HEAVY LOADING CONDITION

1000 LB TENSION	815.2
1500 LB TENSION	815.10
2000 LB TENSION	815.18
2500 LB TENSION	815.26
3000 LB TENSION	815.34
3500 LB TENSION	815.42

SDG&E EXTRA HEAVY LOADING CONDITION

1000 LB TENSION	815.50
1500 LB TENSION	815.58
2000 LB TENSION	815.66
2500 LB TENSION	815.74
3000 LB TENSION	815.82
3500 LB TENSION	815.90

65 MPH HEAVY KNOWN LOCAL WIND CONDITION

1000 LB TENSION	815.98
1500 LB TENSION	815.106
2000 LB TENSION	815.114
2500 LB TENSION	815.122
3000 LB TENSION	815.130
3500 LB TENSION	815.138

85 MPH HEAVY KNOWN LOCAL WIND CONDITION

1000 LB TENSION	815.146
1500 LB TENSION	815.154
2000 LB TENSION	815.162
2500 LB TENSION	815.170
3000 LB TENSION	815.178
3500 LB TENSION	815.186

111 MPH HEAVY KNOWN LOCAL WIND CONDITION

1000 LB TENSION -----	815.194
1500 LB TENSION -----	815.202
2000 LB TENSION -----	815.210
2500 LB TENSION -----	815.218
3000 LB TENSION -----	815.226
3500 LB TENSION -----	815.234

REFERENCE:

- a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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SHEET 1 OF 241	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH815.1
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	#2 - 3/4 AWAC TABLE OF CONTENTS					

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	1.020	32.40	1000	32.40	1000*
0.0	0.00	0.00	0.00	0.197	31.68	197	31.63	198
30.0	0.00	0.00	0.00	0.197	32.03	195	31.98	196
40.0	0.00	0.00	0.00	0.197	32.15	195	32.10	195
50.0	0.00	0.00	0.00	0.197	32.26	194	32.22	194
60.0	0.00	0.00	0.00	0.197	32.38	193	32.34	194
70.0	0.00	0.00	0.00	0.197	32.49	193	32.46	193
80.0	0.00	0.00	0.00	0.197	32.61	192	32.58	192
90.0	0.00	0.00	0.00	0.197	32.72	191	32.69	192
100.0	0.00	0.00	0.00	0.197	32.84	191	32.79	191
110.0	0.00	0.00	0.00	0.197	32.95	190	32.89	190
120.0	0.00	0.00	0.00	0.197	33.05	190	33.00	190
130.0	0.00	0.00	0.00	0.197	33.15	189	33.10	189
167.0	0.00	0.00	0.00	0.197	33.53	187	33.48	187
212.0	0.00	0.00	0.00	0.197	33.99	184	33.94	185
* Design Condition								

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

OH815.4

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11	0-11
100.00	0-9	0-11	1-0	1-1	1-3	1-4	1-5	1-6	1-7	1-8
125.00	1-2	1-5	1-7	1-9	1-11	2-1	2-3	2-4	2-6	2-7
150.00	1-9	2-0	2-3	2-6	2-9	3-0	3-3	3-5	3-7	3-9
175.00	2-4	2-8	3-1	3-5	3-9	4-1	4-4	4-8	4-10	5-1
200.00	3-1	3-6	4-0	4-6	4-11	5-4	5-9	6-1	6-4	6-8

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0
100.00	0-10	0-11	1-0	1-2	1-3	1-4	1-5	1-7	1-8	1-9
125.00	1-3	1-5	1-8	1-10	2-0	2-1	2-3	2-5	2-7	2-8
150.00	1-10	2-1	2-4	2-7	2-10	3-1	3-3	3-6	3-8	3-10
175.00	2-6	2-10	3-2	3-6	3-10	4-2	4-5	4-9	5-0	5-3
200.00	3-3	3-8	4-2	4-7	5-0	5-5	5-10	6-2	6-6	6-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 5 OF 241	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH815.5
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING #2 - 3/4 AWAC TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-2	1-2	1-3	1-3	1-4	1-4	1-4	1-4	1-5
125.00	1-9	1-10	1-11	1-11	2-0	2-0	2-1	2-1	2-2	2-2
150.00	2-7	2-8	2-9	2-9	2-10	2-11	3-0	3-0	3-1	3-2
175.00	3-6	3-7	3-8	3-9	3-10	3-11	4-1	4-1	4-2	4-3
200.00	4-7	4-8	4-10	4-11	5-1	5-2	5-3	5-5	5-6	5-7
225.00	5-9	5-11	6-1	6-3	6-5	6-7	6-8	6-10	6-11	7-1
250.00	7-2	7-4	7-6	7-9	7-11	8-1	8-3	8-5	8-7	8-9

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-2	1-3	1-3	1-3	1-4	1-4	1-4	1-5	1-5
125.00	1-10	1-10	1-11	1-11	2-0	2-0	2-1	2-1	2-2	2-2
150.00	2-7	2-8	2-9	2-10	2-10	2-11	3-0	3-1	3-1	3-2
175.00	3-6	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4
200.00	4-7	4-9	4-10	5-0	5-1	5-2	5-4	5-5	5-6	5-8
225.00	5-10	6-0	6-2	6-4	6-5	6-7	6-9	6-10	7-0	7-1
250.00	7-3	7-5	7-7	7-9	8-0	8-2	8-4	8-6	8-8	8-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 6 OF 241	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH815.6
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING #2 - 3/4 AWAC TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span: 300.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-9	2-9	2-10	2-10	2-10	2-11	2-11	2-11	3-0	3-0
175.00	3-9	3-9	3-10	3-10	3-11	3-11	4-0	4-0	4-1	4-1
200.00	4-11	4-11	5-0	5-1	5-1	5-2	5-2	5-3	5-4	5-4
225.00	6-2	6-3	6-4	6-5	6-5	6-6	6-7	6-8	6-8	6-9
250.00	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-2	8-3	8-4
275.00	9-3	9-4	9-5	9-7	9-8	9-9	9-10	9-11	10-0	10-1
300.00	11-0	11-1	11-3	11-4	11-6	11-7	11-9	11-10	11-11	12-0
325.00	12-11	13-1	13-2	13-4	13-6	13-7	13-9	13-11	14-0	14-1
350.00	15-0	15-2	15-4	15-6	15-8	15-10	15-11	16-1	16-3	16-5
375.00	17-3	17-5	17-7	17-9	18-0	18-2	18-4	18-6	18-8	18-10

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-9	2-9	2-10	2-10	2-11	2-11	2-11	3-0	3-0	3-0
175.00	3-9	3-10	3-10	3-11	3-11	3-11	4-0	4-0	4-1	4-1
200.00	4-11	5-0	5-0	5-1	5-1	5-2	5-3	5-3	5-4	5-4
225.00	6-3	6-3	6-4	6-5	6-6	6-6	6-7	6-8	6-9	6-9
250.00	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3	8-4	8-5
275.00	9-3	9-5	9-6	9-7	9-8	9-9	9-10	10-0	10-1	10-2
300.00	11-1	11-2	11-3	11-5	11-6	11-8	11-9	11-10	12-0	12-1
325.00	13-0	13-1	13-3	13-5	13-6	13-8	13-9	13-11	14-1	14-2
350.00	15-1	15-3	15-4	15-6	15-8	15-10	16-0	16-2	16-4	16-5
375.00	17-3	17-6	17-8	17-10	18-0	18-2	18-4	18-7	18-9	18-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 7 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.7
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING #2 - 3/4 AWAC TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-0	5-0	5-1	5-1	5-1	5-2	5-2	5-3	5-3	5-3
225.00	6-4	6-5	6-5	6-5	6-6	6-6	6-7	6-7	6-8	6-8
250.00	7-10	7-10	7-11	8-0	8-0	8-1	8-1	8-2	8-2	8-3
275.00	9-6	9-6	9-7	9-8	9-8	9-9	9-10	9-10	9-11	9-11
300.00	11-3	11-4	11-5	11-6	11-7	11-7	11-8	11-9	11-10	11-10
325.00	13-3	13-4	13-5	13-6	13-7	13-8	13-8	13-9	13-10	13-11
350.00	15-4	15-5	15-6	15-8	15-9	15-10	15-11	16-0	16-1	16-2
375.00	17-8	17-9	17-10	17-11	18-1	18-2	18-3	18-4	18-5	18-6
400.00	20-1	20-2	20-4	20-5	20-7	20-8	20-9	20-11	21-0	21-1
425.00	22-8	22-10	22-11	23-1	23-3	23-4	23-6	23-7	23-9	23-10
450.00	25-5	25-7	25-9	25-11	26-0	26-2	26-4	26-6	26-7	26-9
475.00	28-4	28-6	28-8	28-10	29-0	29-2	29-4	29-6	29-8	29-10
500.00	31-5	31-7	31-10	32-0	32-2	32-4	32-7	32-9	32-11	33-0

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-0	5-1	5-1	5-1	5-2	5-2	5-2	5-3	5-3	5-3
225.00	6-4	6-5	6-5	6-6	6-6	6-6	6-7	6-7	6-8	6-8
250.00	7-10	7-11	7-11	8-0	8-0	8-1	8-1	8-2	8-2	8-3
275.00	9-6	9-7	9-7	9-8	9-9	9-9	9-10	9-10	9-11	10-0
300.00	11-4	11-4	11-5	11-6	11-7	11-8	11-8	11-9	11-10	11-11
325.00	13-3	13-4	13-5	13-6	13-7	13-8	13-9	13-10	13-11	13-11
350.00	15-5	15-6	15-7	15-8	15-9	15-10	15-11	16-0	16-1	16-2
375.00	17-8	17-9	17-11	18-0	18-1	18-2	18-3	18-5	18-6	18-7
400.00	20-1	20-3	20-4	20-6	20-7	20-8	20-10	20-11	21-1	21-2
425.00	22-9	22-10	23-0	23-1	23-3	23-5	23-6	23-8	23-9	23-11
450.00	25-6	25-8	25-9	25-11	26-1	26-3	26-4	26-6	26-8	26-10
475.00	28-5	28-7	28-9	28-11	29-1	29-3	29-5	29-7	29-9	29-11
500.00	31-6	31-8	31-10	32-1	32-3	32-5	32-7	32-9	32-11	33-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 8 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.8
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING #2 - 3/4 AWAC TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-11	8-0	8-0	8-0	8-1	8-1	8-1	8-2	8-2	8-2
275.00	9-7	9-8	9-8	9-9	9-9	9-9	9-10	9-10	9-11	9-11
300.00	11-5	11-6	11-6	11-7	11-7	11-8	11-8	11-9	11-9	11-10
325.00	13-5	13-6	13-6	13-7	13-7	13-8	13-9	13-9	13-10	13-10
350.00	15-7	15-8	15-8	15-9	15-10	15-10	15-11	16-0	16-0	16-1
375.00	17-11	17-11	18-0	18-1	18-2	18-3	18-3	18-4	18-5	18-5
400.00	20-4	20-5	20-6	20-7	20-8	20-9	20-10	20-11	20-11	21-0
425.00	23-0	23-1	23-2	23-3	23-4	23-5	23-6	23-7	23-8	23-9
450.00	25-9	25-11	26-0	26-1	26-2	26-3	26-4	26-5	26-6	26-7
475.00	28-9	28-10	29-0	29-1	29-2	29-3	29-5	29-6	29-7	29-8
500.00	31-10	32-0	32-1	32-3	32-4	32-6	32-7	32-8	32-9	32-11
525.00	35-2	35-3	35-5	35-7	35-8	35-10	35-11	36-1	36-2	36-3
550.00	38-7	38-9	38-11	39-0	39-2	39-4	39-6	39-7	39-9	39-10
575.00	42-3	42-4	42-6	42-8	42-10	43-0	43-2	43-4	43-5	43-7
600.00	46-0	46-2	46-4	46-6	46-8	46-10	47-0	47-2	47-4	47-6
625.00	49-11	50-2	50-4	50-6	50-8	50-11	51-1	51-3	51-5	51-7

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SHEET 9 OF 241	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH815.9
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING #2 - 3/4 AWAC TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-7
100.00	0-3	0-3	0-4	0-5	0-5	0-7	0-8	0-9	0-11	1-0
125.00	0-5	0-5	0-6	0-7	0-9	0-10	1-0	1-2	1-5	1-6
150.00	0-7	0-8	0-9	0-10	1-0	1-3	1-6	1-9	2-0	2-3
175.00	0-9	0-10	1-0	1-2	1-5	1-8	2-0	2-4	2-8	3-0
200.00	1-0	1-2	1-4	1-6	1-10	2-2	2-7	3-1	3-6	3-11

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-6	0-7
100.00	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-10	0-11	1-1
125.00	0-5	0-6	0-6	0-8	0-9	0-11	1-1	1-3	1-6	1-8
150.00	0-7	0-8	0-9	0-11	1-1	1-4	1-7	1-10	2-1	2-4
175.00	0-10	0-11	1-1	1-3	1-6	1-10	2-2	2-6	2-10	3-3
200.00	1-0	1-2	1-5	1-8	2-0	2-4	2-10	3-3	3-9	4-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D							
SHEET 13 OF 241		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH815.13
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING #2 - 3/4 AWAC TENSION 1500 LBS											

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11
125.00	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-3	1-4	1-5
150.00	1-2	1-3	1-4	1-6	1-7	1-8	1-9	1-10	1-11	2-0
175.00	1-7	1-8	1-10	2-0	2-2	2-3	2-5	2-6	2-8	2-9
200.00	2-0	2-3	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-7
225.00	2-7	2-10	3-1	3-3	3-6	3-9	3-11	4-2	4-4	4-6
250.00	3-2	3-6	3-9	4-1	4-4	4-7	4-11	5-2	5-5	5-7

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11
125.00	0-10	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-4	1-5
150.00	1-2	1-4	1-5	1-6	1-7	1-8	1-10	1-11	2-0	2-1
175.00	1-8	1-9	1-11	2-1	2-2	2-4	2-5	2-7	2-8	2-10
200.00	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8
225.00	2-8	2-11	3-2	3-5	3-8	3-10	4-1	4-3	4-5	4-8
250.00	3-4	3-8	3-11	4-2	4-6	4-9	5-0	5-3	5-6	5-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div>SHEET</div> <div>14 OF 241</div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	OH815.14
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING #2 - 3/4 AWAC TENSION 1500 LBS						

Stringing Sag Table Using Initial Sag							Ruling Span:	300.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-7	1-7	1-8	1-8	1-9	1-10	1-10	1-11	1-11	2-0
175.00	2-2	2-2	2-3	2-4	2-5	2-5	2-6	2-7	2-7	2-8
200.00	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6
225.00	3-6	3-8	3-9	3-10	3-11	4-1	4-2	4-3	4-4	4-5
250.00	4-4	4-6	4-7	4-9	4-10	5-0	5-1	5-3	5-4	5-5
275.00	5-3	5-5	5-7	5-9	5-11	6-1	6-2	6-4	6-6	6-7
300.00	6-3	6-5	6-8	6-10	7-0	7-2	7-4	7-7	7-9	7-10
325.00	7-4	7-7	7-10	8-0	8-3	8-5	8-8	8-10	9-1	9-3
350.00	8-6	8-9	9-1	9-4	9-7	9-10	10-0	10-3	10-6	10-8
375.00	9-9	10-1	10-5	10-8	11-0	11-3	11-6	11-10	12-1	12-3

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-7	1-8	1-8	1-9	1-9	1-10	1-10	1-11	1-11	2-0
175.00	2-2	2-3	2-4	2-4	2-5	2-6	2-6	2-7	2-8	2-8
200.00	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-6
225.00	3-7	3-8	3-10	3-11	4-0	4-1	4-2	4-3	4-5	4-6
250.00	4-5	4-7	4-8	4-10	4-11	5-1	5-2	5-4	5-5	5-6
275.00	5-4	5-6	5-8	5-10	6-0	6-1	6-3	6-5	6-7	6-8
300.00	6-5	6-7	6-9	6-11	7-1	7-3	7-5	7-7	7-9	7-11
325.00	7-6	7-8	7-11	8-2	8-4	8-7	8-9	8-11	9-2	9-4
350.00	8-8	8-11	9-2	9-5	9-8	9-11	10-2	10-5	10-7	10-10
375.00	10-0	10-3	10-7	10-10	11-1	11-5	11-8	11-11	12-2	12-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 15 OF 241		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH815.15
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING #2 - 3/4 AWAC TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-1	3-1	3-2	3-2	3-3	3-4	3-4	3-5	3-5	3-6
225.00	3-11	3-11	4-0	4-1	4-1	4-2	4-3	4-3	4-4	4-5
250.00	4-9	4-10	4-11	5-0	5-1	5-2	5-3	5-3	5-4	5-5
275.00	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7
300.00	6-11	7-0	7-1	7-2	7-4	7-5	7-6	7-7	7-8	7-9
325.00	8-1	8-3	8-4	8-6	8-7	8-8	8-10	8-11	9-1	9-2
350.00	9-5	9-6	9-8	9-10	9-11	10-1	10-3	10-4	10-6	10-7
375.00	10-9	10-11	11-1	11-3	11-5	11-7	11-9	11-11	12-1	12-2
400.00	12-3	12-5	12-8	12-10	13-0	13-2	13-4	13-6	13-8	13-10
425.00	13-10	14-1	14-3	14-6	14-8	14-11	15-1	15-3	15-6	15-8
450.00	15-6	15-9	16-0	16-3	16-6	16-8	16-11	17-2	17-4	17-7
475.00	17-4	17-7	17-10	18-1	18-4	18-7	18-10	19-1	19-4	19-7
500.00	19-2	19-6	19-9	20-1	20-4	20-7	20-11	21-2	21-5	21-8

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-1	3-2	3-2	3-3	3-3	3-4	3-4	3-5	3-5	3-6
225.00	3-11	4-0	4-0	4-1	4-2	4-2	4-3	4-4	4-4	4-5
250.00	4-10	4-11	5-0	5-1	5-1	5-2	5-3	5-4	5-5	5-5
275.00	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7
300.00	6-11	7-1	7-2	7-3	7-4	7-6	7-7	7-8	7-9	7-10
325.00	8-2	8-3	8-5	8-6	8-8	8-9	8-10	9-0	9-1	9-2
350.00	9-6	9-7	9-9	9-11	10-0	10-2	10-3	10-5	10-7	10-8
375.00	10-11	11-0	11-2	11-4	11-6	11-8	11-10	12-0	12-1	12-3
400.00	12-5	12-7	12-9	12-11	13-1	13-3	13-5	13-7	13-9	13-11
425.00	14-0	14-2	14-5	14-7	14-9	15-0	15-2	15-4	15-7	15-9
450.00	15-8	15-11	16-2	16-4	16-7	16-10	17-0	17-3	17-5	17-8
475.00	17-6	17-9	18-0	18-3	18-6	18-9	19-0	19-3	19-5	19-8
500.00	19-4	19-8	19-11	20-2	20-6	20-9	21-0	21-3	21-7	21-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="display: flex; justify-content: space-between;"> <div style="width: 15%;"> <p>SHEET 16 OF 241</p> </div> <div style="width: 70%; border-bottom: none;"> <div style="display: flex; align-items: center;"> Indicates Latest Revision <div style="margin-left: 10px;">Completely Revised</div> <div style="font-size: 2em; margin: 0 5px;">X</div> <div>New Page</div> <div style="margin-left: 10px;">Information Removed</div> </div> <div style="text-align: center; padding: 5px;">SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS</div> <div style="text-align: center; padding: 10px;">STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING #2 - 3/4 AWAC TENSION 1500 LBS</div> </div> <div style="width: 15%; text-align: right;">OH815.16</div> </div>											

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-0	5-1	5-1	5-2	5-2	5-3	5-3	5-4	5-4	5-5
275.00	6-1	6-2	6-2	6-3	6-4	6-4	6-5	6-5	6-6	6-7
300.00	7-3	7-4	7-4	7-5	7-6	7-7	7-7	7-8	7-9	7-10
325.00	8-6	8-7	8-8	8-9	8-9	8-10	8-11	9-0	9-1	9-2
350.00	9-10	9-11	10-0	10-1	10-2	10-3	10-4	10-5	10-6	10-7
375.00	11-4	11-5	11-6	11-7	11-8	11-10	11-11	12-0	12-1	12-2
400.00	12-10	13-0	13-1	13-3	13-4	13-5	13-7	13-8	13-9	13-10
425.00	14-6	14-8	14-9	14-11	15-1	15-2	15-4	15-5	15-6	15-8
450.00	16-4	16-5	16-7	16-9	16-10	17-0	17-2	17-3	17-5	17-7
475.00	18-2	18-4	18-6	18-8	18-10	18-11	19-1	19-3	19-5	19-7
500.00	20-1	20-4	20-6	20-8	20-10	21-0	21-2	21-4	21-6	21-8
525.00	22-2	22-5	22-7	22-9	23-0	23-2	23-4	23-7	23-9	23-11
550.00	24-4	24-7	24-10	25-0	25-3	25-5	25-8	25-10	26-1	26-3
575.00	26-8	26-10	27-1	27-4	27-7	27-10	28-0	28-3	28-6	28-9
600.00	29-0	29-3	29-6	29-9	30-0	30-3	30-6	30-9	31-0	31-3
625.00	31-6	31-9	32-1	32-4	32-7	32-10	33-2	33-5	33-8	33-11


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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET 17 OF 241</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									<div>OH815.17</div>
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING #2 - 3/4 AWAC TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	1.020	16.00	2000	16.00	2000*
0.0	0.00	0.00	0.00	0.197	13.02	474	12.80	482
30.0	0.00	0.00	0.00	0.197	13.79	448	13.59	454
40.0	0.00	0.00	0.00	0.197	14.04	440	13.84	446
50.0	0.00	0.00	0.00	0.197	14.29	432	14.10	438
60.0	0.00	0.00	0.00	0.197	14.53	425	14.35	431
70.0	0.00	0.00	0.00	0.197	14.77	418	14.59	423
80.0	0.00	0.00	0.00	0.197	15.01	412	14.84	416
90.0	0.00	0.00	0.00	0.197	15.24	405	15.08	410
100.0	0.00	0.00	0.00	0.197	15.47	400	15.31	404
110.0	0.00	0.00	0.00	0.197	15.70	394	15.55	397
120.0	0.00	0.00	0.00	0.197	15.92	388	15.76	392
130.0	0.00	0.00	0.00	0.197	16.12	383	15.96	387
167.0	0.00	0.00	0.00	0.197	16.85	367	16.69	370
212.0	0.00	0.00	0.00	0.197	17.70	350	17.55	353
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>20 OF 241</p> </div>	Indicates Latest Revision		Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH815.20</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING</p> <p>#2 - 3/4 AWAC TENSION 2000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-3
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-5
125.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8
150.00	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-10	1-0
175.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	1-0	1-2	1-4
200.00	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-6	1-10

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3
100.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-6
125.00	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7	0-8	0-9
150.00	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-10	0-11	1-1
175.00	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-3	1-6
200.00	0-8	0-8	0-9	0-10	0-11	1-1	1-3	1-5	1-8	2-0

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 21 OF 241	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH815.21
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING #2 - 3/4 AWAC TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7
125.00	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-8	0-9	0-10
150.00	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-3
175.00	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-5	1-6	1-8
200.00	0-10	0-11	1-0	1-2	1-4	1-5	1-7	1-10	2-0	2-2
225.00	1-1	1-2	1-4	1-6	1-8	1-10	2-1	2-3	2-6	2-9
250.00	1-4	1-6	1-7	1-10	2-0	2-3	2-6	2-10	3-1	3-5

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-6	0-7
125.00	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-11
150.00	0-6	0-7	0-7	0-8	0-9	0-11	1-0	1-1	1-2	1-4
175.00	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-6	1-7	1-9
200.00	0-11	1-0	1-1	1-3	1-5	1-7	1-9	1-11	2-1	2-4
225.00	1-2	1-3	1-5	1-7	1-9	2-0	2-2	2-5	2-8	2-11
250.00	1-5	1-7	1-9	1-11	2-2	2-5	2-9	3-0	3-4	3-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET 22 OF 241</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									<div>OH815.22</div>
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING #2 - 3/4 AWAC TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-3	1-4
175.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10
200.00	1-5	1-6	1-8	1-9	1-10	1-11	2-1	2-2	2-3	2-4
225.00	1-9	1-11	2-1	2-2	2-4	2-6	2-7	2-9	2-10	3-0
250.00	2-2	2-4	2-6	2-9	2-11	3-1	3-3	3-5	3-6	3-8
275.00	2-8	2-10	3-1	3-3	3-6	3-8	3-11	4-1	4-3	4-6
300.00	3-2	3-5	3-8	3-11	4-2	4-5	4-8	4-10	5-1	5-4
325.00	3-9	4-0	4-4	4-7	4-10	5-2	5-5	5-9	6-0	6-3
350.00	4-4	4-8	5-0	5-4	5-8	6-0	6-4	6-8	6-11	7-3
375.00	4-11	5-4	5-9	6-1	6-6	6-10	7-3	7-7	8-0	8-4

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-4
175.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-9	1-10
200.00	1-6	1-7	1-8	1-10	1-11	2-0	2-2	2-3	2-4	2-5
225.00	1-11	2-0	2-2	2-4	2-5	2-7	2-8	2-10	2-11	3-1
250.00	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-10
275.00	2-10	3-0	3-3	3-5	3-8	3-10	4-0	4-3	4-5	4-7
300.00	3-4	3-7	3-10	4-1	4-4	4-7	4-10	5-0	5-3	5-6
325.00	3-11	4-2	4-6	4-9	5-1	5-4	5-8	5-11	6-2	6-5
350.00	4-6	4-11	5-3	5-7	5-11	6-3	6-6	6-10	7-2	7-5
375.00	5-3	5-7	6-0	6-5	6-9	7-2	7-6	7-10	8-2	8-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 23 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.23
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING #2 - 3/4 AWAC TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-11	1-11	2-0	2-1	2-2	2-2	2-3	2-4	2-5	2-5
225.00	2-5	2-6	2-7	2-8	2-9	2-10	2-10	2-11	3-0	3-1
250.00	2-11	3-1	3-2	3-3	3-4	3-5	3-7	3-8	3-9	3-10
275.00	3-7	3-8	3-10	3-11	4-1	4-2	4-3	4-5	4-6	4-7
300.00	4-3	4-5	4-6	4-8	4-10	5-0	5-1	5-3	5-4	5-6
325.00	5-0	5-2	5-4	5-6	5-8	5-10	6-0	6-2	6-4	6-5
350.00	5-9	6-0	6-2	6-4	6-7	6-9	6-11	7-2	7-4	7-6
375.00	6-7	6-10	7-1	7-4	7-6	7-9	8-0	8-2	8-5	8-7
400.00	7-6	7-10	8-1	8-4	8-7	8-10	9-1	9-4	9-7	9-9
425.00	8-6	8-10	9-1	9-5	9-8	10-0	10-3	10-6	10-9	11-1
450.00	9-6	9-11	10-3	10-6	10-10	11-2	11-6	11-9	12-1	12-5
475.00	10-8	11-0	11-5	11-9	12-1	12-5	12-10	13-2	13-6	13-10
500.00	11-9	12-2	12-7	13-0	13-5	13-10	14-2	14-7	14-11	15-4

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-11	2-0	2-1	2-2	2-2	2-3	2-4	2-4	2-5	2-6
225.00	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-2
250.00	3-0	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-11
275.00	3-8	3-9	3-11	4-0	4-2	4-3	4-4	4-6	4-7	4-8
300.00	4-4	4-6	4-8	4-9	4-11	5-1	5-2	5-4	5-5	5-7
325.00	5-1	5-3	5-5	5-7	5-9	5-11	6-1	6-3	6-5	6-7
350.00	5-11	6-2	6-4	6-6	6-8	6-11	7-1	7-3	7-5	7-7
375.00	6-10	7-0	7-3	7-6	7-8	7-11	8-1	8-4	8-6	8-9
400.00	7-9	8-0	8-3	8-6	8-9	9-0	9-3	9-6	9-8	9-11
425.00	8-9	9-0	9-4	9-7	9-11	10-2	10-5	10-8	10-11	11-3
450.00	9-10	10-2	10-6	10-9	11-1	11-5	11-8	12-0	12-3	12-7
475.00	10-11	11-4	11-8	12-0	12-4	12-8	13-0	13-4	13-8	14-0
500.00	12-1	12-6	12-11	13-4	13-8	14-1	14-5	14-10	15-2	15-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 24 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.24
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING #2 - 3/4 AWAC TENSION 2000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	1.020	12.78	2500	12.78	2500*
0.0	0.00	0.00	0.00	0.197	8.07	764	7.72	798
30.0	0.00	0.00	0.00	0.197	9.08	679	8.74	705
40.0	0.00	0.00	0.00	0.197	9.41	655	9.07	679
50.0	0.00	0.00	0.00	0.197	9.73	634	9.40	656
60.0	0.00	0.00	0.00	0.197	10.05	614	9.73	634
70.0	0.00	0.00	0.00	0.197	10.36	595	10.05	614
80.0	0.00	0.00	0.00	0.197	10.66	578	10.36	595
90.0	0.00	0.00	0.00	0.197	10.96	563	10.67	578
100.0	0.00	0.00	0.00	0.197	11.26	548	10.98	562
110.0	0.00	0.00	0.00	0.197	11.55	534	11.28	547
120.0	0.00	0.00	0.00	0.197	11.84	521	11.57	533
130.0	0.00	0.00	0.00	0.197	12.09	510	11.86	520
167.0	0.00	0.00	0.00	0.197	13.00	475	12.77	483
212.0	0.00	0.00	0.00	0.197	14.04	440	13.82	447

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

Indicates Latest Revision	Completely Revised	X	New Page	Information Removed
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING

#2 - 3/4 AWAC TENSION 2500 LBS

OH815.28

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
100.00	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4
150.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6
175.00	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-8
200.00	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
100.00	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-5
150.00	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-7
175.00	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9
200.00	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 29 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.29
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING #2 - 3/4 AWAC TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
125.00	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5
150.00	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8
175.00	0-5	0-5	0-6	0-6	0-6	0-7	0-8	0-9	0-9	0-11
200.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2
225.00	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5
250.00	0-10	0-11	0-11	1-0	1-1	1-2	1-4	1-5	1-7	1-10

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4
125.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6
150.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9
175.00	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	1-0
200.00	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2	1-3
225.00	0-8	0-9	0-10	0-10	0-11	1-0	1-2	1-3	1-5	1-7
250.00	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-9	2-0

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 30 OF 241	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	OH815.30
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING #2 - 3/4 AWAC TENSION 2500 LBS						

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10
175.00	0-6	0-7	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-1
200.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-6
225.00	0-11	0-11	1-0	1-1	1-3	1-4	1-5	1-7	1-9	1-10
250.00	1-1	1-2	1-3	1-5	1-6	1-8	1-9	1-11	2-1	2-3
275.00	1-4	1-5	1-6	1-8	1-10	2-0	2-2	2-4	2-7	2-9
300.00	1-7	1-8	1-10	2-0	2-2	2-4	2-7	2-10	3-1	3-3
325.00	1-10	2-0	2-2	2-4	2-7	2-9	3-0	3-3	3-7	3-10
350.00	2-2	2-4	2-6	2-9	2-11	3-3	3-6	3-10	4-2	4-6
375.00	2-5	2-8	2-10	3-1	3-5	3-8	4-0	4-5	4-9	5-2

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11
175.00	0-7	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-2
200.00	0-9	0-10	0-10	0-11	1-0	1-2	1-3	1-4	1-5	1-7
225.00	0-11	1-0	1-1	1-2	1-4	1-5	1-7	1-8	1-10	2-0
250.00	1-2	1-3	1-4	1-6	1-7	1-9	1-11	2-1	2-3	2-5
275.00	1-5	1-6	1-8	1-10	2-0	2-2	2-4	2-6	2-9	2-11
300.00	1-8	1-10	2-0	2-2	2-4	2-7	2-9	3-0	3-3	3-6
325.00	1-11	2-1	2-4	2-6	2-9	3-0	3-3	3-7	3-10	4-1
350.00	2-3	2-5	2-8	2-11	3-2	3-6	3-9	4-1	4-5	4-9
375.00	2-7	2-10	3-1	3-4	3-8	4-0	4-4	4-9	5-1	5-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET 31 OF 241</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.31
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING #2 - 3/4 AWAC TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-6	1-7	1-8
225.00	1-3	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-2
250.00	1-7	1-8	1-10	1-11	2-1	2-2	2-3	2-5	2-6	2-7
275.00	1-11	2-1	2-2	2-4	2-6	2-7	2-9	2-11	3-0	3-2
300.00	2-3	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-7	3-9
325.00	2-8	2-10	3-1	3-3	3-5	3-8	3-10	4-1	4-3	4-5
350.00	3-1	3-4	3-7	3-9	4-0	4-3	4-6	4-8	4-11	5-2
375.00	3-7	3-10	4-1	4-4	4-7	4-10	5-2	5-5	5-8	5-11
400.00	4-1	4-4	4-8	4-11	5-3	5-6	5-10	6-2	6-5	6-9
425.00	4-7	4-11	5-3	5-7	5-11	6-3	6-7	6-11	7-3	7-7
450.00	5-2	5-6	5-10	6-3	6-7	7-0	7-5	7-9	8-2	8-6
475.00	5-9	6-2	6-6	7-0	7-5	7-10	8-3	8-8	9-1	9-6
500.00	6-4	6-10	7-3	7-9	8-2	8-8	9-1	9-7	10-1	10-6

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-1	1-2	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-9
225.00	1-4	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-3
250.00	1-8	1-10	1-11	2-0	2-2	2-3	2-5	2-6	2-7	2-9
275.00	2-1	2-2	2-4	2-6	2-7	2-9	2-11	3-0	3-2	3-4
300.00	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-7	3-9	3-11
325.00	2-10	3-1	3-3	3-5	3-8	3-10	4-0	4-3	4-5	4-7
350.00	3-4	3-6	3-9	4-0	4-3	4-5	4-8	4-11	5-2	5-4
375.00	3-10	4-1	4-4	4-7	4-10	5-1	5-5	5-8	5-11	6-2
400.00	4-4	4-7	4-11	5-3	5-6	5-10	6-1	6-5	6-8	7-0
425.00	4-11	5-3	5-7	5-11	6-3	6-7	6-11	7-3	7-7	7-11
450.00	5-6	5-10	6-3	6-7	7-0	7-4	7-9	8-1	8-6	8-10
475.00	6-1	6-6	6-11	7-4	7-9	8-3	8-8	9-1	9-5	9-10
500.00	6-9	7-3	7-8	8-2	8-8	9-1	9-7	10-0	10-6	10-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 32 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.32
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING #2 - 3/4 AWAC TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10
275.00	2-6	2-8	2-9	2-10	2-11	3-0	3-2	3-3	3-4	3-5
300.00	3-0	3-2	3-3	3-5	3-6	3-7	3-9	3-10	3-11	4-1
325.00	3-7	3-8	3-10	4-0	4-1	4-3	4-5	4-6	4-8	4-9
350.00	4-1	4-3	4-5	4-7	4-9	4-11	5-1	5-3	5-5	5-6
375.00	4-9	4-11	5-1	5-3	5-6	5-8	5-10	6-0	6-2	6-4
400.00	5-5	5-7	5-10	6-0	6-3	6-5	6-8	6-10	7-0	7-3
425.00	6-1	6-4	6-7	6-10	7-0	7-3	7-6	7-9	7-11	8-2
450.00	6-10	7-1	7-4	7-7	7-11	8-2	8-5	8-8	8-11	9-2
475.00	7-7	7-11	8-2	8-6	8-9	9-1	9-4	9-8	9-11	10-2
500.00	8-5	8-9	9-1	9-5	9-9	10-1	10-4	10-8	11-0	11-3
525.00	9-3	9-8	10-0	10-4	10-9	11-1	11-5	11-9	12-1	12-5
550.00	10-2	10-7	11-0	11-5	11-9	12-2	12-6	12-11	13-3	13-8
575.00	11-1	11-7	12-0	12-5	12-10	13-3	13-8	14-1	14-6	14-11
600.00	12-1	12-7	13-1	13-7	14-0	14-6	14-11	15-4	15-10	16-3
625.00	13-2	13-8	14-2	14-8	15-2	15-8	16-2	16-8	17-2	17-8

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
275.00	2-8	2-9	2-10	2-11	3-0	3-2	3-3	3-4	3-5	3-6
300.00	3-2	3-3	3-5	3-6	3-7	3-9	3-10	3-11	4-1	4-2
325.00	3-8	3-10	4-0	4-1	4-3	4-4	4-6	4-8	4-9	4-11
350.00	4-3	4-5	4-7	4-9	4-11	5-1	5-3	5-4	5-6	5-8
375.00	4-11	5-1	5-3	5-6	5-8	5-10	6-0	6-2	6-4	6-6
400.00	5-7	5-10	6-0	6-3	6-5	6-8	6-10	7-0	7-2	7-5
425.00	6-4	6-7	6-10	7-0	7-3	7-6	7-8	7-11	8-2	8-4
450.00	7-1	7-4	7-7	7-11	8-2	8-5	8-8	8-11	9-1	9-4
475.00	7-11	8-2	8-6	8-9	9-1	9-4	9-7	9-11	10-2	10-5
500.00	8-9	9-1	9-5	9-9	10-1	10-4	10-8	11-0	11-3	11-7
525.00	9-8	10-0	10-4	10-9	11-1	11-5	11-9	12-1	12-5	12-9
550.00	10-7	11-0	11-5	11-9	12-2	12-6	12-11	13-3	13-8	14-0
575.00	11-7	12-0	12-5	12-10	13-3	13-8	14-1	14-6	14-11	15-3
600.00	12-7	13-1	13-7	14-0	14-6	14-11	15-4	15-10	16-3	16-8
625.00	13-8	14-2	14-8	15-2	15-8	16-2	16-8	17-2	17-7	18-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>33 OF 241</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH815.33
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING #2 - 3/4 AWAC TENSION 2500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	0.50G	6.00	0.00	1.020	10.64	3000	10.64	3000*
0.0	0.00	0.00	0.00	0.197	4.53	1360	4.23	1457
30.0	0.00	0.00	0.00	0.197	5.45	1131	5.06	1218
40.0	0.00	0.00	0.00	0.197	5.78	1066	5.37	1148
50.0	0.00	0.00	0.00	0.197	6.12	1007	5.69	1083
60.0	0.00	0.00	0.00	0.197	6.47	953	6.02	1023
70.0	0.00	0.00	0.00	0.197	6.81	904	6.36	968
80.0	0.00	0.00	0.00	0.197	7.16	860	6.71	918
90.0	0.00	0.00	0.00	0.197	7.51	820	7.06	873
100.0	0.00	0.00	0.00	0.197	7.86	784	7.41	832
110.0	0.00	0.00	0.00	0.197	8.21	751	7.76	794
120.0	0.00	0.00	0.00	0.197	8.55	721	8.11	760
130.0	0.00	0.00	0.00	0.197	8.85	696	8.45	729
167.0	0.00	0.00	0.00	0.197	9.92	621	9.61	641
212.0	0.00	0.00	0.00	0.197	11.16	553	10.85	568

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET
36 OF 241

Indicates Latest Revision

Completely Revised

	X
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New Page

Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.36

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
150.00	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4
175.00	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6
200.00	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
150.00	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5
175.00	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6
200.00	0-4	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 37 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.37
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING #2 - 3/4 AWAC TENSION 3000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
150.00	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5
175.00	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6
200.00	0-5	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8
225.00	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-10	0-10
250.00	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-1

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4
150.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7
200.00	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9
225.00	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-10	0-11
250.00	0-8	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 38 OF 241	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH815.38
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING #2 - 3/4 AWAC TENSION 3000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6
175.00	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8
200.00	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10
225.00	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-1
250.00	0-9	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-3	1-4
275.00	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-6	1-7
300.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-11
325.00	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-11	2-1	2-3
350.00	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-2	2-4	2-7
375.00	1-7	1-8	1-9	1-11	2-0	2-2	2-4	2-6	2-9	2-11

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6
175.00	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9
200.00	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11
225.00	0-7	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2
250.00	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
275.00	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-9
300.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-11	2-1
325.00	1-3	1-4	1-5	1-6	1-8	1-9	1-11	2-1	2-3	2-6
350.00	1-5	1-7	1-8	1-9	1-11	2-1	2-3	2-5	2-7	2-10
375.00	1-8	1-9	1-11	2-0	2-2	2-4	2-6	2-9	3-0	3-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 39 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.39
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING #2 - 3/4 AWAC TENSION 3000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-7	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1
225.00	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4
250.00	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-8
275.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-10	2-0
300.00	1-3	1-4	1-5	1-7	1-8	1-9	1-11	2-1	2-3	2-4
325.00	1-6	1-7	1-8	1-10	1-11	2-1	2-3	2-5	2-7	2-9
350.00	1-9	1-10	2-0	2-1	2-3	2-5	2-7	2-10	3-0	3-3
375.00	2-0	2-2	2-3	2-5	2-7	2-10	3-0	3-3	3-5	3-8
400.00	2-3	2-5	2-7	2-9	3-0	3-2	3-5	3-8	3-11	4-3
425.00	2-7	2-9	2-11	3-1	3-4	3-7	3-10	4-2	4-5	4-9
450.00	2-11	3-1	3-3	3-6	3-9	4-0	4-4	4-8	5-0	5-4
475.00	3-3	3-5	3-8	3-11	4-2	4-6	4-10	5-2	5-7	5-11
500.00	3-7	3-9	4-1	4-4	4-8	5-0	5-4	5-9	6-2	6-7

Stringing Sag Table Using Final Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-2
225.00	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-5
250.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-9
275.00	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-11	2-0	2-2
300.00	1-4	1-6	1-7	1-8	1-10	1-11	2-1	2-3	2-5	2-7
325.00	1-7	1-9	1-10	2-0	2-2	2-3	2-6	2-8	2-10	3-0
350.00	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-1	3-3	3-6
375.00	2-2	2-3	2-5	2-8	2-10	3-1	3-3	3-6	3-9	4-0
400.00	2-5	2-7	2-9	3-0	3-3	3-6	3-9	4-0	4-3	4-7
425.00	2-9	2-11	3-2	3-5	3-8	3-11	4-2	4-6	4-10	5-2
450.00	3-1	3-4	3-6	3-10	4-1	4-5	4-9	5-1	5-5	5-10
475.00	3-5	3-8	3-11	4-3	4-7	4-11	5-3	5-8	6-1	6-5
500.00	3-10	4-1	4-4	4-8	5-0	5-5	5-10	6-3	6-8	7-2

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SHEET 40 OF 241	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH815.40
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING #2 - 3/4 AWAC TENSION 3000 LBS					

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 43 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH815.43
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING #2 - 3/4 AWAC TENSION 3500 LBS										

Span = 500 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.02	9.12	3500	9.12	3500*
0	0	0	0	0.197	2.83	2172	2.67	2306
30	0	0	0	0.197	3.35	1837	3.09	1991
40	0	0	0	0.197	3.56	1731	3.26	1888
50	0	0	0	0.197	3.78	1629	3.45	1786
60	0	0	0	0.197	4.02	1531	3.65	1688
70	0	0	0	0.197	4.28	1439	3.87	1592
80	0	0	0	0.197	4.56	1351	4.11	1499
90	0	0	0	0.197	4.85	1270	4.36	1411
100	0	0	0	0.197	5.16	1194	4.64	1327
110	0	0	0	0.197	5.48	1124	4.93	1248
120	0	0	0	0.197	5.81	1059	5.24	1175
130	0	0	0	0.197	6.14	1002	5.57	1106
167	0	0	0	0.197	7.27	848	6.84	900
212	0	0	0	0.197	8.64	714	8.23	749

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 44 OF 241	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH815.44
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING #2 - 3/4 AWAC TENSION 3500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5
200.00	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>45 OF 241</h2> </div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.45
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING #2 - 3/4 AWAC TENSION 3500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6
225.00	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-7
250.00	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4
175.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5
200.00	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6
225.00	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8
250.00	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>46 OF 241</h2> </div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.46
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING #2 - 3/4 AWAC TENSION 3500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5
200.00	0-4	0-4	0-5	0-5	0-5	0-5	0-5	0-6	0-6	0-7
225.00	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8
250.00	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10
275.00	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-11	1-0	1-0
300.00	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-3
325.00	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-5
350.00	1-1	1-1	1-2	1-2	1-3	1-4	1-5	1-6	1-7	1-8
375.00	1-3	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-10	1-11

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4
175.00	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6
200.00	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7
225.00	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9
250.00	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11	0-11
275.00	0-8	0-9	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-2
300.00	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-4
325.00	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-7
350.00	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-9	1-10
375.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	2-0	2-2

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 47 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.47
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING #2 - 3/4 AWAC TENSION 3500 LBS									

* Design Condition

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>50 OF 241</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH815.50
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING #2 - 3/4 AWAC DESIGN TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	3.063	116.97	1000	116.97	1000*
0.0	0.00	0.00	0.00	0.197	116.66	64	116.66	64
30.0	0.00	0.00	0.00	0.197	116.81	64	116.80	64
40.0	0.00	0.00	0.00	0.197	116.85	64	116.83	64
50.0	0.00	0.00	0.00	0.197	116.89	64	116.87	64
60.0	0.00	0.00	0.00	0.197	116.93	64	116.91	64
70.0	0.00	0.00	0.00	0.197	116.96	64	116.95	64
80.0	0.00	0.00	0.00	0.197	117.00	64	116.98	64
90.0	0.00	0.00	0.00	0.197	117.04	64	117.02	64
100.0	0.00	0.00	0.00	0.197	117.07	64	117.05	64
110.0	0.00	0.00	0.00	0.197	117.11	64	117.09	64
120.0	0.00	0.00	0.00	0.197	117.14	64	117.12	64
130.0	0.00	0.00	0.00	0.197	117.18	64	117.15	64
167.0	0.00	0.00	0.00	0.197	117.30	64	117.28	64
212.0	0.00	0.00	0.00	0.197	117.46	64	117.43	64
* Design Condition								

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

Completely Revised

	X
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Information Removed

SHEET
52 OF 241

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 1000 LBS

OH815.52

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-0	2-1	2-1	2-1	2-2	2-2	2-2	2-2	2-3	2-3
100.00	3-8	3-8	3-9	3-9	3-9	3-10	3-10	3-11	3-11	4-0
125.00	5-8	5-9	5-10	5-10	5-11	6-0	6-1	6-1	6-2	6-2
150.00	8-2	8-3	8-4	8-6	8-7	8-8	8-9	8-10	8-10	8-11
175.00	11-2	11-3	11-5	11-6	11-8	11-9	11-11	12-0	12-1	12-2
200.00	14-7	14-9	14-11	15-1	15-3	15-5	15-7	15-8	15-10	16-0

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-1	2-1	2-1	2-1	2-2	2-2	2-2	2-2	2-3	2-3
100.00	3-8	3-8	3-9	3-9	3-10	3-10	3-11	3-11	3-11	4-0
125.00	5-8	5-9	5-10	5-11	5-11	6-0	6-1	6-2	6-2	6-3
150.00	8-2	8-4	8-5	8-6	8-7	8-8	8-9	8-10	8-11	9-0
175.00	11-2	11-4	11-6	11-7	11-8	11-10	11-11	12-1	12-2	12-3
200.00	14-8	14-10	15-0	15-2	15-4	15-6	15-8	15-9	15-11	16-1

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 53 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.53
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING #2 - 3/4 AWAC TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-10	3-10	3-10	3-10	3-11	3-11	3-11	3-11	3-11	3-11
125.00	6-0	6-0	6-1	6-1	6-1	6-1	6-1	6-1	6-2	6-2
150.00	8-8	8-8	8-9	8-9	8-9	8-9	8-10	8-10	8-10	8-10
175.00	11-10	11-10	11-11	11-11	11-11	12-0	12-0	12-0	12-1	12-1
200.00	15-6	15-6	15-7	15-7	15-8	15-8	15-8	15-9	15-9	15-10
225.00	19-7	19-8	19-9	19-9	19-10	19-11	19-11	20-0	20-0	20-1
250.00	24-3	24-4	24-5	24-6	24-6	24-7	24-8	24-8	24-9	24-10

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-10	3-10	3-10	3-11	3-11	3-11	3-11	3-11	3-11	3-11
125.00	6-0	6-0	6-1	6-1	6-1	6-1	6-1	6-2	6-2	6-2
150.00	8-8	8-8	8-9	8-9	8-9	8-10	8-10	8-10	8-10	8-10
175.00	11-10	11-10	11-11	11-11	11-11	12-0	12-0	12-1	12-1	12-1
200.00	15-6	15-6	15-7	15-7	15-8	15-8	15-9	15-9	15-10	15-10
225.00	19-8	19-8	19-9	19-10	19-10	19-11	19-11	20-0	20-0	20-1
250.00	24-3	24-5	24-5	24-6	24-7	24-7	24-8	24-9	24-10	24-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 54 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.54
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING #2 - 3/4 AWAC TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	8-11	8-11	9-0	9-0	9-0	9-0	9-0	9-0	9-0	9-0
175.00	12-2	12-3	12-3	12-3	12-3	12-3	12-3	12-3	12-4	12-4
200.00	16-0	16-0	16-0	16-0	16-0	16-1	16-1	16-1	16-1	16-1
225.00	20-3	20-3	20-3	20-4	20-4	20-4	20-4	20-5	20-5	20-5
250.00	25-1	25-1	25-1	25-2	25-2	25-2	25-3	25-3	25-3	25-3
275.00	30-5	30-5	30-6	30-6	30-6	30-7	30-7	30-8	30-8	30-8
300.00	36-3	36-4	36-4	36-5	36-5	36-6	36-6	36-7	36-7	36-8
325.00	42-9	42-9	42-10	42-10	42-11	43-0	43-0	43-1	43-1	43-2
350.00	49-9	49-9	49-10	49-11	49-11	50-0	50-1	50-1	50-2	50-2
375.00	57-4	57-4	57-5	57-6	57-7	57-7	57-8	57-9	57-9	57-10

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	8-11	9-0	9-0	9-0	9-0	9-0	9-0	9-0	9-0	9-0
175.00	12-2	12-3	12-3	12-3	12-3	12-3	12-3	12-4	12-4	12-4
200.00	16-0	16-0	16-0	16-0	16-0	16-1	16-1	16-1	16-1	16-1
225.00	20-3	20-3	20-4	20-4	20-4	20-4	20-5	20-5	20-5	20-5
250.00	25-1	25-1	25-1	25-2	25-2	25-2	25-3	25-3	25-3	25-4
275.00	30-5	30-5	30-6	30-6	30-7	30-7	30-7	30-8	30-8	30-8
300.00	36-4	36-4	36-5	36-5	36-6	36-6	36-6	36-7	36-7	36-8
325.00	42-9	42-10	42-10	42-11	42-11	43-0	43-0	43-1	43-1	43-2
350.00	49-9	49-10	49-10	49-11	50-0	50-0	50-1	50-2	50-2	50-3
375.00	57-4	57-5	57-6	57-6	57-7	57-8	57-8	57-9	57-10	57-11

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C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 55 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH815.55
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING #2 - 3/4 AWAC TENSION 1000 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	16-7	16-8	16-8	16-8	16-8	16-8	16-8	16-8	16-8	16-8
225.00	21-1	21-1	21-1	21-1	21-2	21-2	21-2	21-2	21-2	21-2
250.00	26-1	26-1	26-2	26-2	26-2	26-2	26-2	26-2	26-2	26-3
275.00	31-8	31-8	31-8	31-9	31-9	31-9	31-9	31-9	31-10	31-10
300.00	37-10	37-10	37-10	37-11	37-11	37-11	37-11	37-11	38-0	38-0
325.00	44-6	44-7	44-7	44-7	44-8	44-8	44-8	44-8	44-9	44-9
350.00	51-10	51-11	51-11	51-11	52-0	52-0	52-0	52-1	52-1	52-1
375.00	59-9	59-10	59-10	59-10	59-11	59-11	60-0	60-0	60-0	60-1
400.00	68-4	68-4	68-4	68-5	68-5	68-6	68-6	68-7	68-7	68-8
425.00	77-5	77-6	77-7	77-7	77-8	77-8	77-9	77-9	77-10	77-10
450.00	87-3	87-4	87-4	87-5	87-6	87-6	87-7	87-7	87-8	87-8
475.00	97-9	97-9	97-10	97-11	98-0	98-0	98-1	98-1	98-2	98-3
500.00	108-11	108-11	109-0	109-1	109-2	109-2	109-3	109-4	109-5	109-5

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	16-7	16-8	16-8	16-8	16-8	16-8	16-8	16-8	16-8	16-8
225.00	21-1	21-1	21-1	21-1	21-2	21-2	21-2	21-2	21-2	21-2
250.00	26-1	26-1	26-2	26-2	26-2	26-2	26-2	26-2	26-3	26-3
275.00	31-8	31-8	31-9	31-9	31-9	31-9	31-9	31-10	31-10	31-10
300.00	37-10	37-10	37-10	37-11	37-11	37-11	37-11	38-0	38-0	38-0
325.00	44-6	44-7	44-7	44-7	44-8	44-8	44-8	44-9	44-9	44-9
350.00	51-10	51-11	51-11	51-11	52-0	52-0	52-0	52-1	52-1	52-1
375.00	59-9	59-10	59-10	59-11	59-11	59-11	60-0	60-0	60-1	60-1
400.00	68-4	68-4	68-5	68-5	68-6	68-6	68-6	68-7	68-7	68-8
425.00	77-5	77-6	77-7	77-7	77-8	77-8	77-9	77-9	77-10	77-10
450.00	87-3	87-4	87-5	87-5	87-6	87-6	87-7	87-8	87-8	87-9
475.00	97-9	97-10	97-10	97-11	98-0	98-0	98-1	98-2	98-2	98-3
500.00	108-11	109-0	109-0	109-1	109-2	109-3	109-3	109-4	109-5	109-6

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>56 OF 241</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH815.56
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING #2 - 3/4 AWAC TENSION 1000 LBS									

Stringing Sag Table Using Final Sag							Ruling Span:	500.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	27-10	27-10	27-10	27-10	27-10	27-11	27-11	27-11	27-11	27-11
275.00	33-9	33-10	33-10	33-10	33-10	33-10	33-10	33-10	33-10	33-11
300.00	40-4	40-5	40-5	40-5	40-5	40-5	40-5	40-5	40-6	40-6
325.00	47-7	47-7	47-7	47-7	47-7	47-8	47-8	47-8	47-8	47-8
350.00	55-5	55-5	55-5	55-5	55-6	55-6	55-6	55-6	55-6	55-7
375.00	63-11	63-11	63-11	63-11	64-0	64-0	64-0	64-0	64-1	64-1
400.00	73-0	73-1	73-1	73-1	73-2	73-2	73-2	73-3	73-3	73-3
425.00	82-11	82-11	82-11	83-0	83-0	83-0	83-1	83-1	83-1	83-2
450.00	93-5	93-6	93-6	93-7	93-7	93-7	93-8	93-8	93-8	93-9
475.00	104-9	104-9	104-10	104-10	104-11	104-11	104-11	105-0	105-0	105-0
500.00	116-9	116-10	116-10	116-11	116-11	117-0	117-0	117-0	117-1	117-1
525.00	129-7	129-7	129-8	129-9	129-9	129-10	129-10	129-11	129-11	129-11
550.00	143-2	143-3	143-3	143-4	143-4	143-5	143-6	143-6	143-7	143-7
575.00	157-7	157-8	157-9	157-9	157-10	157-10	157-11	158-0	158-0	158-1
600.00	172-10	172-11	173-0	173-1	173-1	173-2	173-3	173-4	173-4	173-5
625.00	189-0	189-1	189-2	189-3	189-4	189-4	189-5	189-6	189-7	189-7

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 57 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.57
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING #2 - 3/4 AWAC TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-4	1-5	1-5
100.00	1-11	2-0	2-1	2-2	2-3	2-4	2-4	2-5	2-6	2-6
125.00	3-1	3-2	3-3	3-5	3-6	3-7	3-8	3-9	3-10	3-11
150.00	4-5	4-7	4-9	4-11	5-0	5-2	5-4	5-5	5-7	5-8
175.00	6-0	6-3	6-5	6-8	6-10	7-1	7-3	7-5	7-7	7-9
200.00	7-10	8-1	8-5	8-8	8-11	9-3	9-5	9-8	9-11	10-1

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-2	1-2	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-5
100.00	2-0	2-1	2-2	2-3	2-3	2-4	2-5	2-6	2-6	2-7
125.00	3-2	3-3	3-4	3-5	3-7	3-8	3-9	3-10	3-11	4-0
150.00	4-6	4-8	4-10	5-0	5-1	5-3	5-5	5-6	5-8	5-9
175.00	6-2	6-4	6-7	6-9	7-0	7-2	7-4	7-7	7-9	7-10
200.00	8-0	8-4	8-7	8-10	9-1	9-4	9-7	9-10	10-1	10-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>61 OF 241</p> </div>	Indicates Latest Revision		Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH815.61</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING</p> <p>#2 - 3/4 AWAC TENSION 1500 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-5	2-5	2-6	2-6	2-6	2-6	2-6	2-6	2-7	2-7
125.00	3-10	3-10	3-10	3-11	3-11	3-11	3-11	4-0	4-0	4-0
150.00	5-6	5-6	5-7	5-7	5-7	5-8	5-8	5-9	5-9	5-9
175.00	7-6	7-6	7-7	7-7	7-8	7-8	7-9	7-9	7-10	7-10
200.00	9-9	9-10	9-11	9-11	10-0	10-1	10-1	10-2	10-3	10-3
225.00	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-11	13-0
250.00	15-3	15-4	15-6	15-7	15-8	15-9	15-10	15-11	16-0	16-1

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-5	2-6	2-6	2-6	2-6	2-6	2-6	2-7	2-7	2-7
125.00	3-10	3-10	3-10	3-11	3-11	3-11	4-0	4-0	4-0	4-0
150.00	5-6	5-6	5-7	5-7	5-8	5-8	5-8	5-9	5-9	5-10
175.00	7-6	7-7	7-7	7-8	7-8	7-9	7-9	7-10	7-10	7-11
200.00	9-10	9-10	9-11	10-0	10-1	10-1	10-2	10-3	10-3	10-4
225.00	12-5	12-6	12-7	12-8	12-9	12-10	12-10	12-11	13-0	13-1
250.00	15-4	15-5	15-6	15-8	15-9	15-10	15-11	16-0	16-1	16-2

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>62 OF 241</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.62
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING #2 - 3/4 AWAC TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span: 300.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-9	5-9	5-9	5-9	5-9	5-9	5-10	5-10	5-10	5-10
175.00	7-9	7-10	7-10	7-10	7-10	7-11	7-11	7-11	7-11	7-11
200.00	10-2	10-2	10-3	10-3	10-3	10-4	10-4	10-4	10-4	10-5
225.00	12-11	12-11	12-11	13-0	13-0	13-1	13-1	13-1	13-2	13-2
250.00	15-11	16-0	16-0	16-1	16-1	16-2	16-2	16-2	16-3	16-3
275.00	19-3	19-4	19-5	19-5	19-6	19-7	19-7	19-8	19-8	19-9
300.00	23-0	23-1	23-1	23-2	23-3	23-3	23-4	23-5	23-5	23-6
325.00	27-0	27-1	27-2	27-3	27-4	27-4	27-5	27-6	27-7	27-7
350.00	31-4	31-5	31-6	31-7	31-8	31-9	31-10	31-11	32-0	32-1
375.00	36-1	36-2	36-3	36-4	36-5	36-7	36-8	36-9	36-10	36-11

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-9	5-9	5-9	5-9	5-9	5-10	5-10	5-10	5-10	5-10
175.00	7-10	7-10	7-10	7-10	7-11	7-11	7-11	7-11	7-11	8-0
200.00	10-2	10-3	10-3	10-3	10-4	10-4	10-4	10-4	10-5	10-5
225.00	12-11	12-11	13-0	13-0	13-0	13-1	13-1	13-2	13-2	13-2
250.00	15-11	16-0	16-0	16-1	16-1	16-2	16-2	16-3	16-3	16-4
275.00	19-4	19-5	19-5	19-6	19-6	19-7	19-7	19-8	19-9	19-9
300.00	23-0	23-1	23-2	23-2	23-3	23-4	23-5	23-5	23-6	23-7
325.00	27-1	27-2	27-2	27-3	27-4	27-5	27-6	27-7	27-7	27-8
350.00	31-5	31-6	31-7	31-8	31-9	31-10	31-11	32-0	32-1	32-2
375.00	36-2	36-3	36-4	36-5	36-6	36-7	36-8	36-9	36-10	36-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>63 OF 241</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.63
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING #2 - 3/4 AWAC TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	3.063	49.76	2000	49.76	2000*
0.0	0.00	0.00	0.00	0.197	48.65	131	48.57	132
30.0	0.00	0.00	0.00	0.197	48.88	131	48.81	131
40.0	0.00	0.00	0.00	0.197	48.96	131	48.89	131
50.0	0.00	0.00	0.00	0.197	49.04	130	48.97	131
60.0	0.00	0.00	0.00	0.197	49.12	130	49.05	130
70.0	0.00	0.00	0.00	0.197	49.20	130	49.13	130
80.0	0.00	0.00	0.00	0.197	49.27	130	49.20	130
90.0	0.00	0.00	0.00	0.197	49.35	130	49.27	130
100.0	0.00	0.00	0.00	0.197	49.42	129	49.34	130
110.0	0.00	0.00	0.00	0.197	49.49	129	49.42	129
120.0	0.00	0.00	0.00	0.197	49.56	129	49.49	129
130.0	0.00	0.00	0.00	0.197	49.63	129	49.56	129
167.0	0.00	0.00	0.00	0.197	49.89	128	49.82	129
212.0	0.00	0.00	0.00	0.197	50.21	128	50.13	128
* Design Condition								

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

Completely Revised

	X
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Information Removed

OH815.68

SHEET
68 OF 241

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11
100.00	0-7	0-9	0-10	1-0	1-1	1-2	1-4	1-5	1-6	1-7
125.00	1-0	1-2	1-4	1-6	1-8	1-10	2-0	2-2	2-4	2-5
150.00	1-5	1-8	1-11	2-2	2-5	2-8	2-11	3-2	3-4	3-6
175.00	1-11	2-3	2-7	3-0	3-4	3-8	4-0	4-3	4-6	4-9
200.00	2-6	2-11	3-5	3-11	4-4	4-10	5-3	5-7	5-11	6-3

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-11	0-11
100.00	0-9	0-10	0-11	1-1	1-2	1-3	1-5	1-6	1-7	1-8
125.00	1-1	1-4	1-6	1-8	1-10	2-0	2-2	2-4	2-5	2-7
150.00	1-7	1-11	2-2	2-5	2-8	2-11	3-1	3-4	3-6	3-8
175.00	2-2	2-7	2-11	3-3	3-7	3-11	4-3	4-6	4-10	5-0
200.00	2-11	3-4	3-10	4-4	4-9	5-2	5-7	5-11	6-3	6-7

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-8	1-8	1-8	1-9	1-9	1-9	1-9	1-10	1-10	1-10
125.00	2-7	2-7	2-8	2-8	2-9	2-9	2-9	2-10	2-10	2-10
150.00	3-9	3-9	3-10	3-10	3-11	4-0	4-0	4-1	4-1	4-2
175.00	5-1	5-2	5-2	5-3	5-4	5-5	5-6	5-6	5-7	5-8
200.00	6-7	6-8	6-9	6-11	7-0	7-1	7-2	7-2	7-3	7-4
225.00	8-4	8-6	8-7	8-9	8-10	8-11	9-0	9-2	9-3	9-4
250.00	10-4	10-6	10-7	10-9	10-11	11-0	11-2	11-3	11-5	11-6

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-8	1-8	1-9	1-9	1-9	1-9	1-10	1-10	1-10	1-10
125.00	2-7	2-8	2-8	2-9	2-9	2-9	2-10	2-10	2-10	2-11
150.00	3-9	3-10	3-10	3-11	3-11	4-0	4-1	4-1	4-2	4-2
175.00	5-2	5-2	5-3	5-4	5-5	5-5	5-6	5-7	5-8	5-8
200.00	6-8	6-9	6-10	6-11	7-0	7-1	7-2	7-3	7-4	7-5
225.00	8-6	8-7	8-8	8-10	8-11	9-0	9-1	9-3	9-4	9-5
250.00	10-6	10-7	10-9	10-11	11-0	11-2	11-3	11-5	11-6	11-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 70 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.70
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING #2 - 3/4 AWAC TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-1	4-1	4-2	4-2	4-2	4-2	4-3	4-3	4-3	4-3
175.00	5-7	5-7	5-8	5-8	5-8	5-9	5-9	5-9	5-9	5-10
200.00	7-3	7-4	7-4	7-5	7-5	7-6	7-6	7-6	7-7	7-7
225.00	9-3	9-3	9-4	9-4	9-5	9-5	9-6	9-6	9-7	9-7
250.00	11-5	11-5	11-6	11-7	11-7	11-8	11-9	11-9	11-10	11-10
275.00	13-9	13-10	13-11	14-0	14-1	14-2	14-2	14-3	14-4	14-4
300.00	16-5	16-6	16-7	16-8	16-9	16-10	16-11	17-0	17-1	17-1
325.00	19-3	19-4	19-6	19-7	19-8	19-9	19-10	19-11	20-0	20-1
350.00	22-4	22-6	22-7	22-8	22-10	22-11	23-0	23-2	23-3	23-4
375.00	25-8	25-10	26-0	26-1	26-3	26-4	26-6	26-7	26-8	26-10

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-1	4-2	4-2	4-2	4-2	4-3	4-3	4-3	4-3	4-3
175.00	5-7	5-7	5-8	5-8	5-8	5-9	5-9	5-9	5-10	5-10
200.00	7-4	7-4	7-5	7-5	7-5	7-6	7-6	7-7	7-7	7-7
225.00	9-3	9-4	9-4	9-5	9-5	9-6	9-6	9-7	9-7	9-8
250.00	11-5	11-6	11-7	11-7	11-8	11-9	11-9	11-10	11-10	11-11
275.00	13-10	13-11	14-0	14-1	14-1	14-2	14-3	14-4	14-5	14-5
300.00	16-6	16-7	16-8	16-9	16-10	16-11	17-0	17-1	17-1	17-2
325.00	19-4	19-6	19-7	19-8	19-9	19-10	19-11	20-0	20-1	20-2
350.00	22-6	22-7	22-8	22-10	22-11	23-0	23-2	23-3	23-4	23-5
375.00	25-10	25-11	26-1	26-2	26-4	26-5	26-7	26-8	26-10	26-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 71 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.71
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING #2 - 3/4 AWAC TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-7	7-7	7-7	7-7	7-7	7-8	7-8	7-8	7-8	7-9
225.00	9-7	9-7	9-7	9-8	9-8	9-8	9-8	9-9	9-9	9-9
250.00	11-10	11-10	11-10	11-11	11-11	11-11	12-0	12-0	12-0	12-1
275.00	14-3	14-4	14-4	14-5	14-5	14-6	14-6	14-7	14-7	14-7
300.00	17-0	17-1	17-1	17-2	17-2	17-3	17-3	17-4	17-4	17-5
325.00	20-0	20-0	20-1	20-2	20-2	20-3	20-4	20-4	20-5	20-5
350.00	23-2	23-3	23-4	23-5	23-5	23-6	23-7	23-7	23-8	23-9
375.00	26-8	26-9	26-9	26-10	26-11	27-0	27-1	27-2	27-2	27-3
400.00	30-4	30-5	30-6	30-7	30-8	30-9	30-10	30-11	31-0	31-0
425.00	34-3	34-5	34-6	34-7	34-8	34-9	34-10	34-11	35-0	35-1
450.00	38-6	38-7	38-8	38-10	38-11	39-0	39-1	39-2	39-3	39-4
475.00	42-11	43-0	43-2	43-3	43-5	43-6	43-7	43-9	43-10	43-11
500.00	47-7	47-9	47-10	48-0	48-2	48-3	48-5	48-6	48-7	48-9

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
200.00	7-7	7-7	7-7	7-7	7-8	7-8	7-8	7-8	7-9	7-9
225.00	9-7	9-7	9-8	9-8	9-8	9-8	9-9	9-9	9-9	9-10
250.00	11-10	11-10	11-11	11-11	11-11	12-0	12-0	12-0	12-1	12-1
275.00	14-4	14-4	14-5	14-5	14-6	14-6	14-7	14-7	14-7	14-8
300.00	17-1	17-1	17-2	17-2	17-3	17-3	17-4	17-4	17-5	17-5
325.00	20-0	20-1	20-2	20-2	20-3	20-3	20-4	20-5	20-5	20-6
350.00	23-3	23-4	23-4	23-5	23-6	23-7	23-7	23-8	23-9	23-9
375.00	26-9	26-9	26-10	26-11	27-0	27-1	27-2	27-2	27-3	27-4
400.00	30-5	30-6	30-7	30-8	30-9	30-10	30-11	31-0	31-1	31-1
425.00	34-5	34-6	34-7	34-8	34-9	34-10	34-11	35-0	35-1	35-2
450.00	38-7	38-8	38-9	38-11	39-0	39-1	39-2	39-3	39-4	39-6
475.00	43-0	43-2	43-3	43-4	43-6	43-7	43-9	43-10	43-11	44-0
500.00	47-9	47-10	48-0	48-1	48-3	48-4	48-6	48-7	48-9	48-10

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[illegible]

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 75 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.75
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING #2 - 3/4 AWAC TENSION 2500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	3.063	39.23	2500	39.23	2500*
0.0	0.00	0.00	0.00	0.197	37.48	168	37.34	169
30.0	0.00	0.00	0.00	0.197	37.78	167	37.65	167
40.0	0.00	0.00	0.00	0.197	37.88	166	37.75	167
50.0	0.00	0.00	0.00	0.197	37.98	166	37.85	166
60.0	0.00	0.00	0.00	0.197	38.07	165	37.95	166
70.0	0.00	0.00	0.00	0.197	38.17	165	38.05	166
80.0	0.00	0.00	0.00	0.197	38.27	165	38.15	165
90.0	0.00	0.00	0.00	0.197	38.36	164	38.24	165
100.0	0.00	0.00	0.00	0.197	38.45	164	38.33	164
110.0	0.00	0.00	0.00	0.197	38.54	164	38.42	164
120.0	0.00	0.00	0.00	0.197	38.63	163	38.51	164
130.0	0.00	0.00	0.00	0.197	38.71	163	38.60	163
167.0	0.00	0.00	0.00	0.197	39.04	162	38.93	162
212.0	0.00	0.00	0.00	0.197	39.44	160	39.33	160

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

Indicates Latest Revision		Completely Revised	X	New Page		Information Removed
SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING						
#2 - 3/4 AWAC TENSION 2500 LBS						

OH815.76

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5
100.00	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-8
125.00	0-4	0-4	0-4	0-5	0-6	0-6	0-8	0-9	0-11	1-1
150.00	0-5	0-6	0-6	0-7	0-8	0-9	0-11	1-1	1-3	1-6
175.00	0-7	0-8	0-8	0-10	0-11	1-1	1-3	1-6	1-9	2-1
200.00	0-9	0-10	0-11	1-0	1-2	1-4	1-7	1-11	2-3	2-9

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-5
100.00	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-9
125.00	0-4	0-4	0-5	0-5	0-6	0-7	0-9	0-11	1-1	1-3
150.00	0-5	0-6	0-7	0-8	0-9	0-11	1-1	1-3	1-6	1-9
175.00	0-7	0-8	0-9	0-11	1-0	1-3	1-6	1-9	2-1	2-5
200.00	0-10	0-11	1-0	1-2	1-4	1-7	1-11	2-4	2-9	3-2

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Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-1	1-1	1-2	1-2	1-2	1-3	1-3	1-3	1-4	1-4
125.00	1-8	1-9	1-9	1-10	1-10	1-11	1-11	2-0	2-0	2-1
150.00	2-5	2-6	2-6	2-7	2-8	2-9	2-10	2-10	2-11	3-0
175.00	3-3	3-4	3-5	3-7	3-8	3-9	3-10	3-11	4-0	4-1
200.00	4-3	4-5	4-6	4-8	4-9	4-11	5-0	5-1	5-3	5-4
225.00	5-5	5-7	5-9	5-11	6-0	6-2	6-4	6-6	6-7	6-9
250.00	6-8	6-10	7-1	7-3	7-5	7-8	7-10	8-0	8-2	8-4

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-1	1-2	1-2	1-2	1-3	1-3	1-3	1-4	1-4	1-4
125.00	1-9	1-9	1-10	1-10	1-11	2-0	2-0	2-1	2-1	2-1
150.00	2-6	2-7	2-8	2-8	2-9	2-10	2-11	2-11	3-0	3-1
175.00	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2
200.00	4-5	4-7	4-8	4-9	4-11	5-0	5-2	5-3	5-4	5-5
225.00	5-7	5-9	5-11	6-1	6-3	6-4	6-6	6-8	6-9	6-11
250.00	6-11	7-1	7-4	7-6	7-8	7-10	8-0	8-2	8-4	8-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 78 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH815.78
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING #2 - 3/4 AWAC TENSION 2500 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5- 9	5-10	5-10	5-10	5-11	5-11	5-11	5-11	6- 0	6- 0
225.00	7- 4	7- 4	7- 5	7- 5	7- 5	7- 6	7- 6	7- 6	7- 7	7- 7
250.00	9- 0	9- 1	9- 1	9- 2	9- 2	9- 3	9- 3	9- 4	9- 4	9- 5
275.00	10-11	11- 0	11- 0	11- 1	11- 1	11- 2	11- 3	11- 3	11- 4	11- 4
300.00	13- 0	13- 1	13- 2	13- 2	13- 3	13- 4	13- 4	13- 5	13- 6	13- 6
325.00	15- 3	15- 4	15- 5	15- 6	15- 7	15- 7	15- 8	15- 9	15-10	15-10
350.00	17- 9	17-10	17-11	18- 0	18- 1	18- 1	18- 2	18- 3	18- 4	18- 5
375.00	20- 4	20- 5	20- 7	20- 8	20- 9	20-10	20-11	21- 0	21- 1	21- 2
400.00	23- 2	23- 3	23- 5	23- 6	23- 7	23- 8	23-10	23-11	24- 0	24- 1
425.00	26- 2	26- 4	26- 5	26- 6	26- 8	26- 9	26-11	27- 0	27- 1	27- 2
450.00	29- 4	29- 6	29- 8	29- 9	29-11	30- 0	30- 2	30- 3	30- 5	30- 6
475.00	32- 9	32-11	33- 0	33- 2	33- 4	33- 6	33- 7	33- 9	33-11	34- 0
500.00	36- 4	36- 6	36- 8	36-10	37- 0	37- 1	37- 3	37- 5	37- 7	37- 9

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-10	5-10	5-10	5-11	5-11	5-11	5-11	6- 0	6- 0	6- 0
225.00	7- 4	7- 5	7- 5	7- 5	7- 6	7- 6	7- 7	7- 7	7- 7	7- 8
250.00	9- 1	9- 1	9- 2	9- 2	9- 3	9- 3	9- 4	9- 4	9- 5	9- 5
275.00	11- 0	11- 0	11- 1	11- 2	11- 2	11- 3	11- 3	11- 4	11- 4	11- 5
300.00	13- 1	13- 2	13- 2	13- 3	13- 4	13- 4	13- 5	13- 6	13- 6	13- 7
325.00	15- 4	15- 5	15- 6	15- 7	15- 8	15- 8	15- 9	15-10	15-11	15-11
350.00	17-10	17-11	18- 0	18- 1	18- 2	18- 3	18- 3	18- 4	18- 5	18- 6
375.00	20- 6	20- 7	20- 8	20- 9	20-10	20-11	21- 0	21- 1	21- 2	21- 3
400.00	23- 4	23- 5	23- 6	23- 7	23- 9	23-10	23-11	24- 0	24- 1	24- 2
425.00	26- 4	26- 5	26- 7	26- 8	26- 9	26-11	27- 0	27- 1	27- 3	27- 4
450.00	29- 6	29- 8	29-10	29-11	30- 1	30- 2	30- 4	30- 5	30- 6	30- 8
475.00	32-11	33- 1	33- 3	33- 4	33- 6	33- 8	33- 9	33-11	34- 1	34- 2
500.00	36- 6	36- 8	36-10	37- 0	37- 2	37- 4	37- 6	37- 7	37- 9	37-11


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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 80 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH815.80
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING #2 - 3/4 AWAC TENSION 2500 LBS										

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	3.063	5.12	3000	5.12	3000*
0.0	0.00	0.00	0.00	0.197	1.92	513	1.64	603
30.0	0.00	0.00	0.00	0.197	2.49	396	2.19	450
40.0	0.00	0.00	0.00	0.197	2.67	369	2.38	415
50.0	0.00	0.00	0.00	0.197	2.85	346	2.56	385
60.0	0.00	0.00	0.00	0.197	3.02	327	2.74	359
70.0	0.00	0.00	0.00	0.197	3.18	310	2.92	337
80.0	0.00	0.00	0.00	0.197	3.33	296	3.09	319
90.0	0.00	0.00	0.00	0.197	3.47	284	3.26	303
100.0	0.00	0.00	0.00	0.197	3.61	273	3.42	289
110.0	0.00	0.00	0.00	0.197	3.74	264	3.55	278
120.0	0.00	0.00	0.00	0.197	3.87	255	3.69	268
130.0	0.00	0.00	0.00	0.197	4.00	247	3.82	258
167.0	0.00	0.00	0.00	0.197	4.44	222	4.27	231
212.0	0.00	0.00	0.00	0.197	4.94	200	4.78	207
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>82 OF 241</p> </div>	Indicates Latest Revision	Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH815.82</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING</p> <p>#2 - 3/4 AWAC TENSION 3000 LBS</p> </div>					

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	3.063	32.44	3000	32.44	3000*
0.0	0.00	0.00	0.00	0.197	29.88	209	29.65	211
30.0	0.00	0.00	0.00	0.197	30.25	207	30.04	208
40.0	0.00	0.00	0.00	0.197	30.37	206	30.16	207
50.0	0.00	0.00	0.00	0.197	30.49	205	30.29	206
60.0	0.00	0.00	0.00	0.197	30.61	204	30.41	205
70.0	0.00	0.00	0.00	0.197	30.72	203	30.54	205
80.0	0.00	0.00	0.00	0.197	30.83	203	30.66	204
90.0	0.00	0.00	0.00	0.197	30.95	202	30.78	203
100.0	0.00	0.00	0.00	0.197	31.05	201	30.89	202
110.0	0.00	0.00	0.00	0.197	31.16	201	31.00	202
120.0	0.00	0.00	0.00	0.197	31.27	200	31.11	201
130.0	0.00	0.00	0.00	0.197	31.38	199	31.22	200
167.0	0.00	0.00	0.00	0.197	31.78	197	31.62	198
212.0	0.00	0.00	0.00	0.197	32.26	194	32.10	195
* Design Condition								

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

OH815.84

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
100.00	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4
150.00	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6
175.00	0-4	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-8	0-9
200.00	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	1-0

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
100.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
125.00	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5
150.00	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8
175.00	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10
200.00	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-11	1-0	1-2

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11
125.00	0-9	0-10	0-11	1-0	1-1	1-2	1-2	1-3	1-4	1-5
150.00	1-2	1-3	1-4	1-5	1-7	1-8	1-9	1-10	1-11	2-0
175.00	1-6	1-8	1-10	2-0	2-1	2-3	2-4	2-6	2-7	2-9
200.00	2-0	2-2	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-7
225.00	2-6	2-9	3-0	3-3	3-6	3-8	3-11	4-2	4-4	4-6
250.00	3-2	3-5	3-9	4-0	4-3	4-7	4-10	5-1	5-4	5-7

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-7	0-8	0-9	0-9	0-10	0-10	0-10	0-11	0-11
125.00	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-4	1-5	1-6
150.00	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1
175.00	1-9	1-11	2-1	2-2	2-4	2-5	2-7	2-8	2-9	2-10
200.00	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-7	3-9
225.00	2-11	3-2	3-5	3-7	3-10	4-0	4-3	4-5	4-7	4-9
250.00	3-7	3-11	4-2	4-5	4-9	5-0	5-2	5-5	5-8	5-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>86 OF 241</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.86
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING #2 - 3/4 AWAC TENSION 3000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-6	4-6	4-7	4-7	4-8	4-8	4-8	4-9	4-9	4-9
225.00	5-8	5-9	5-9	5-10	5-10	5-11	5-11	6-0	6-0	6-1
250.00	7-0	7-1	7-2	7-2	7-3	7-4	7-4	7-5	7-5	7-6
275.00	8-6	8-7	8-8	8-8	8-9	8-10	8-11	8-11	9-0	9-1
300.00	10-2	10-3	10-3	10-4	10-5	10-6	10-7	10-8	10-9	10-9
325.00	11-11	12-0	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8
350.00	13-10	13-11	14-0	14-1	14-3	14-4	14-5	14-6	14-7	14-8
375.00	15-10	16-0	16-1	16-2	16-4	16-5	16-7	16-8	16-9	16-10
400.00	18-1	18-2	18-4	18-5	18-7	18-8	18-10	18-11	19-1	19-2
425.00	20-5	20-6	20-8	20-10	21-0	21-1	21-3	21-5	21-6	21-8
450.00	22-10	23-0	23-2	23-4	23-6	23-8	23-10	24-0	24-2	24-4
475.00	25-6	25-8	25-10	26-0	26-3	26-5	26-7	26-9	26-11	27-1
500.00	28-3	28-5	28-8	28-10	29-1	29-3	29-6	29-8	29-10	30-0

Stringing Sag Table Using Final Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-7	4-7	4-7	4-8	4-8	4-9	4-9	4-9	4-10	4-10
225.00	5-9	5-10	5-10	5-11	5-11	6-0	6-0	6-0	6-1	6-1
250.00	7-2	7-2	7-3	7-3	7-4	7-4	7-5	7-5	7-6	7-7
275.00	8-7	8-8	8-9	8-10	8-10	8-11	9-0	9-0	9-1	9-2
300.00	10-3	10-4	10-5	10-6	10-7	10-7	10-8	10-9	10-10	10-10
325.00	12-1	12-2	12-3	12-4	12-5	12-6	12-6	12-7	12-8	12-9
350.00	14-0	14-1	14-2	14-3	14-4	14-5	14-7	14-8	14-9	14-10
375.00	16-1	16-2	16-3	16-5	16-6	16-7	16-8	16-10	16-11	17-0
400.00	18-3	18-5	18-6	18-8	18-9	18-11	19-0	19-1	19-3	19-4
425.00	20-8	20-9	20-11	21-1	21-3	21-4	21-6	21-7	21-9	21-10
450.00	23-2	23-4	23-6	23-8	23-9	23-11	24-1	24-3	24-4	24-6
475.00	25-10	26-0	26-2	26-4	26-6	26-8	26-10	27-0	27-2	27-4
500.00	28-7	28-10	29-0	29-2	29-5	29-7	29-9	29-11	30-1	30-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 88 OF 241	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH815.88
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING #2 - 3/4 AWAC TENSION 3000 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span:	500.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-5	7-6	7-6	7-7	7-7	7-7	7-8	7-8	7-8	7-9
275.00	9-0	9-1	9-1	9-2	9-2	9-2	9-3	9-3	9-4	9-4
300.00	10-9	10-9	10-10	10-10	10-11	11-0	11-0	11-1	11-1	11-1
325.00	12-7	12-8	12-8	12-9	12-10	12-10	12-11	13-0	13-0	13-1
350.00	14-7	14-8	14-9	14-10	14-10	14-11	15-0	15-1	15-1	15-2
375.00	16-9	16-10	16-11	17-0	17-1	17-2	17-3	17-3	17-4	17-5
400.00	19-1	19-2	19-3	19-4	19-5	19-6	19-7	19-8	19-9	19-10
425.00	21-7	21-8	21-9	21-10	21-11	22-0	22-1	22-3	22-3	22-4
450.00	24-2	24-4	24-5	24-6	24-7	24-9	24-10	24-11	25-0	25-1
475.00	27-0	27-1	27-3	27-4	27-5	27-7	27-8	27-9	27-10	28-0
500.00	29-11	30-0	30-2	30-3	30-5	30-6	30-8	30-9	30-11	31-0
525.00	33-0	33-2	33-3	33-5	33-7	33-8	33-10	33-11	34-1	34-2
550.00	36-3	36-5	36-6	36-8	36-10	37-0	37-2	37-3	37-5	37-7
575.00	39-7	39-9	39-11	40-1	40-3	40-5	40-7	40-9	40-11	41-1
600.00	43-2	43-4	43-6	43-8	43-11	44-1	44-3	44-5	44-7	44-9
625.00	46-10	47-1	47-3	47-5	47-8	47-10	48-1	48-3	48-5	48-7

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<div style="text-align: center;"> <p>SHEET</p> <p>89 OF 241</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH815.89</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<p>STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING</p> <p>#2 - 3/4 AWAC TENSION 3000 LBS</p>						

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	3.063	4.38	3500	4.38	3500*
0.0	0.00	0.00	0.00	0.197	0.69	1428	0.61	1621
30.0	0.00	0.00	0.00	0.197	0.92	1076	0.77	1279
40.0	0.00	0.00	0.00	0.197	1.02	967	0.84	1167
50.0	0.00	0.00	0.00	0.197	1.14	865	0.93	1059
60.0	0.00	0.00	0.00	0.197	1.28	771	1.03	955
70.0	0.00	0.00	0.00	0.197	1.43	687	1.15	856
80.0	0.00	0.00	0.00	0.197	1.60	615	1.29	765
90.0	0.00	0.00	0.00	0.197	1.76	560	1.44	683
100.0	0.00	0.00	0.00	0.197	1.92	513	1.61	611
110.0	0.00	0.00	0.00	0.197	2.09	473	1.80	549
120.0	0.00	0.00	0.00	0.197	2.25	438	1.99	496
130.0	0.00	0.00	0.00	0.197	2.42	408	2.16	457
167.0	0.00	0.00	0.00	0.197	3.00	328	2.75	359
212.0	0.00	0.00	0.00	0.197	3.65	270	3.41	289

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D							
SHEET 90 OF 241		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH815.90
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING #2 - 3/4 AWAC TENSION 3500 LBS											

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	1.00G	12.00	0.00	3.063	27.68	3500	27.68	3500*
0.0	0.00	0.00	0.00	0.197	24.11	258	23.76	261
30.0	0.00	0.00	0.00	0.197	24.57	253	24.22	257
40.0	0.00	0.00	0.00	0.197	24.71	252	24.38	255
50.0	0.00	0.00	0.00	0.197	24.84	250	24.53	253
60.0	0.00	0.00	0.00	0.197	24.98	249	24.69	252
70.0	0.00	0.00	0.00	0.197	25.11	248	24.84	250
80.0	0.00	0.00	0.00	0.197	25.25	246	24.99	249
90.0	0.00	0.00	0.00	0.197	25.38	245	25.14	247
100.0	0.00	0.00	0.00	0.197	25.51	244	25.28	246
110.0	0.00	0.00	0.00	0.197	25.64	243	25.41	245
120.0	0.00	0.00	0.00	0.197	25.78	241	25.54	244
130.0	0.00	0.00	0.00	0.197	25.91	240	25.67	242
167.0	0.00	0.00	0.00	0.197	26.38	236	26.15	238
212.0	0.00	0.00	0.00	0.197	26.95	231	26.73	233

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

Indicates Latest Revision	Completely Revised	X	New Page	Information Removed
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
#2 - 3/4 AWAC TENSION 3500 LBS

OH815.92

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3
150.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5
200.00	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
150.00	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4
175.00	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6
200.00	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 93 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.93
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING #2 - 3/4 AWAC TENSION 3500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5
125.00	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-8
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0
175.00	0-7	0-7	0-8	0-9	0-9	0-11	1-0	1-1	1-3	1-5
200.00	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-5	1-7	1-10
225.00	0-11	1-0	1-1	1-2	1-4	1-5	1-8	1-10	2-1	2-3
250.00	1-1	1-2	1-4	1-5	1-7	1-10	2-0	2-3	2-6	2-10

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-6
125.00	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-8	0-9	0-10
150.00	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2
175.00	0-8	0-8	0-9	0-10	1-0	1-1	1-3	1-4	1-6	1-7
200.00	0-10	0-11	1-0	1-2	1-3	1-5	1-7	1-9	1-11	2-1
225.00	1-1	1-2	1-3	1-5	1-7	1-10	2-0	2-3	2-5	2-8
250.00	1-4	1-5	1-7	1-9	2-0	2-3	2-6	2-9	3-0	3-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 94 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.94
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING #2 - 3/4 AWAC TENSION 3500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-5	1-6	1-7	1-7	1-8	1-8	1-9	1-9	1-10	1-10
175.00	2-0	2-1	2-1	2-2	2-3	2-4	2-4	2-5	2-6	2-7
200.00	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4
225.00	3-3	3-5	3-6	3-7	3-9	3-10	3-11	4-0	4-1	4-2
250.00	4-0	4-2	4-4	4-5	4-7	4-9	4-10	5-0	5-1	5-2
275.00	4-10	5-1	5-3	5-5	5-7	5-8	5-10	6-0	6-2	6-3
300.00	5-10	6-0	6-2	6-5	6-7	6-9	7-0	7-2	7-4	7-6
325.00	6-10	7-1	7-3	7-6	7-9	8-0	8-2	8-5	8-7	8-9
350.00	7-11	8-2	8-5	8-9	9-0	9-3	9-6	9-9	10-0	10-2
375.00	9-1	9-5	9-8	10-0	10-4	10-7	10-11	11-2	11-5	11-8

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-7	1-7	1-8	1-8	1-9	1-9	1-10	1-10	1-11	1-11
175.00	2-1	2-2	2-3	2-4	2-4	2-5	2-6	2-6	2-7	2-8
200.00	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-4	3-5
225.00	3-6	3-7	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4
250.00	4-4	4-6	4-7	4-9	4-10	4-11	5-1	5-2	5-3	5-4
275.00	5-3	5-5	5-7	5-9	5-10	6-0	6-1	6-3	6-5	6-6
300.00	6-3	6-5	6-8	6-10	7-0	7-2	7-3	7-5	7-7	7-9
325.00	7-4	7-7	7-9	8-0	8-2	8-4	8-7	8-9	8-11	9-1
350.00	8-6	8-9	9-0	9-3	9-6	9-8	9-11	10-2	10-4	10-6
375.00	9-9	10-1	10-4	10-8	10-11	11-2	11-5	11-8	11-10	12-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>95 OF 241</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH815.95
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING #2 - 3/4 AWAC TENSION 3500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-6	3-6	3-7	3-7	3-8	3-8	3-9	3-9	3-9	3-10
225.00	4-5	4-5	4-6	4-7	4-7	4-8	4-8	4-9	4-10	4-10
250.00	5-5	5-6	5-7	5-7	5-8	5-9	5-10	5-10	5-11	6-0
275.00	6-7	6-8	6-9	6-10	6-10	6-11	7-0	7-1	7-2	7-3
300.00	7-10	7-11	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-7
325.00	9-2	9-3	9-5	9-6	9-7	9-9	9-10	9-11	10-0	10-1
350.00	10-8	10-9	10-11	11-0	11-2	11-3	11-5	11-6	11-7	11-9
375.00	12-2	12-4	12-6	12-8	12-9	12-11	13-1	13-3	13-4	13-6
400.00	13-11	14-1	14-3	14-5	14-7	14-9	14-11	15-0	15-2	15-4
425.00	15-8	15-11	16-1	16-3	16-5	16-7	16-10	17-0	17-2	17-4
450.00	17-7	17-10	18-0	18-3	18-5	18-8	18-10	19-1	19-3	19-5
475.00	19-7	19-10	20-1	20-4	20-6	20-9	21-0	21-3	21-5	21-8
500.00	21-9	22-0	22-3	22-6	22-9	23-0	23-3	23-6	23-9	24-0

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-7	3-7	3-8	3-8	3-9	3-9	3-9	3-10	3-10	3-11
225.00	4-6	4-7	4-7	4-8	4-8	4-9	4-9	4-10	4-11	4-11
250.00	5-7	5-8	5-8	5-9	5-10	5-10	5-11	6-0	6-0	6-1
275.00	6-9	6-10	6-11	6-11	7-0	7-1	7-2	7-3	7-3	7-4
300.00	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9
325.00	9-5	9-6	9-7	9-9	9-10	9-11	10-0	10-1	10-2	10-3
350.00	10-11	11-0	11-2	11-3	11-5	11-6	11-7	11-8	11-10	11-11
375.00	12-6	12-8	12-10	12-11	13-1	13-2	13-4	13-5	13-7	13-8
400.00	14-3	14-5	14-7	14-9	14-10	15-0	15-2	15-3	15-5	15-7
425.00	16-1	16-3	16-6	16-8	16-9	16-11	17-1	17-3	17-5	17-7
450.00	18-1	18-3	18-6	18-8	18-10	19-0	19-2	19-4	19-6	19-9
475.00	20-2	20-4	20-7	20-9	21-0	21-2	21-5	21-7	21-9	22-0
500.00	22-4	22-7	22-10	23-0	23-3	23-6	23-8	23-11	24-2	24-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>96 OF 241</h2> </div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.96
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING #2 - 3/4 AWAC TENSION 3500 LBS									

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	6-1	6-2	6-2	6-2	6-3	6-3	6-4	6-4	6-4	6-5
275.00	7-4	7-5	7-5	7-6	7-6	7-7	7-7	7-8	7-8	7-9
300.00	8-9	8-10	8-11	8-11	9-0	9-0	9-1	9-1	9-2	9-3
325.00	10-4	10-4	10-5	10-6	10-6	10-7	10-8	10-8	10-9	10-10
350.00	11-11	12-0	12-1	12-2	12-3	12-3	12-4	12-5	12-6	12-7
375.00	13-9	13-10	13-11	13-11	14-0	14-1	14-2	14-3	14-4	14-5
400.00	15-7	15-8	15-10	15-11	16-0	16-1	16-2	16-3	16-4	16-5
425.00	17-7	17-9	17-10	17-11	18-0	18-2	18-3	18-4	18-5	18-6
450.00	19-9	19-11	20-0	20-1	20-3	20-4	20-5	20-7	20-8	20-9
475.00	22-0	22-2	22-4	22-5	22-6	22-8	22-9	22-11	23-0	23-2
500.00	24-5	24-7	24-9	24-10	25-0	25-1	25-3	25-5	25-6	25-8
525.00	26-11	27-1	27-3	27-5	27-7	27-8	27-10	28-0	28-2	28-3
550.00	29-7	29-9	29-11	30-1	30-3	30-5	30-7	30-9	30-11	31-1
575.00	32-4	32-6	32-9	32-11	33-1	33-3	33-5	33-7	33-9	33-11
600.00	35-2	35-5	35-8	35-10	36-0	36-3	36-5	36-7	36-10	37-0
625.00	38-3	38-5	38-8	38-11	39-1	39-4	39-6	39-9	39-11	40-2


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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 97 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.97
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING #2 - 3/4 AWAC TENSION 3500 LBS									

Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.399	4.5	1000	4.5	1000*
0	0	0	0	0.197	3.05	726	3.02	735
30	0	0	0	0.197	3.8	584	3.75	591
40	0	0	0	0.197	4.04	548	4	555
50	0	0	0	0.197	4.29	517	4.24	523
60	0	0	0	0.197	4.53	490	4.48	495
70	0	0	0	0.197	4.76	466	4.72	470
80	0	0	0	0.197	4.99	445	4.95	448
90	0	0	0	0.197	5.21	426	5.18	428
100	0	0	0	0.197	5.43	409	5.4	411
110	0	0	0	0.197	5.64	393	5.62	395
120	0	0	0	0.197	5.85	380	5.81	382
130	0	0	0	0.197	6.05	367	5.99	371
167	0	0	0	0.197	6.69	332	6.63	335
212	0	0	0	0.197	7.42	300	7.35	302

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.399	8	1000	8	1000*
0	0	0	0	0.197	6.38	618	6.32	624
30	0	0	0	0.197	7.23	546	7.17	550
40	0	0	0	0.197	7.5	526	7.45	530
50	0	0	0	0.197	7.77	508	7.72	511
60	0	0	0	0.197	8.03	491	7.98	494
70	0	0	0	0.197	8.29	476	8.25	479
80	0	0	0	0.197	8.54	462	8.5	464
90	0	0	0	0.197	8.79	449	8.75	451
100	0	0	0	0.197	9.03	437	9	439
110	0	0	0	0.197	9.26	426	9.24	427
120	0	0	0	0.197	9.5	416	9.46	417
130	0	0	0	0.197	9.73	406	9.67	408
167	0	0	0	0.197	10.47	377	10.4	380
212	0	0	0	0.197	11.31	349	11.24	352

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<div style="text-align: center;"> <p>SHEET</p> <p>99 OF 241</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH815.99</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING</p> <p>#2 - 3/4 AWAC TENSION 1000 LBS</p> </div>				

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-6	0-7
100.00	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-10	0-11	1-0
125.00	0-5	0-6	0-7	0-8	0-9	0-11	1-1	1-3	1-5	1-7
150.00	0-7	0-8	0-10	0-11	1-1	1-4	1-7	1-10	2-1	2-4
175.00	0-10	0-11	1-1	1-3	1-6	1-10	2-2	2-6	2-10	3-2
200.00	1-1	1-3	1-5	1-8	2-0	2-4	2-10	3-3	3-9	4-2

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-7
100.00	0-3	0-4	0-4	0-5	0-6	0-7	0-9	0-10	1-0	1-1
125.00	0-5	0-6	0-7	0-8	0-10	0-11	1-2	1-4	1-6	1-8
150.00	0-7	0-8	0-10	1-0	1-2	1-5	1-8	1-11	2-2	2-5
175.00	0-10	0-11	1-1	1-4	1-7	1-11	2-3	2-7	2-11	3-4
200.00	1-1	1-3	1-5	1-8	2-1	2-5	2-11	3-5	3-10	4-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>101 OF 241</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div> </div> <div>SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS</div> <div>STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 1000 LBS</div>									OH815.101

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-8	0-9
125.00	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2
150.00	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-6	1-8
175.00	1-0	1-1	1-3	1-5	1-6	1-8	1-10	1-11	2-1	2-3
200.00	1-4	1-5	1-7	1-10	2-0	2-2	2-4	2-7	2-9	2-11
225.00	1-8	1-10	2-1	2-3	2-6	2-9	3-0	3-3	3-6	3-8
250.00	2-0	2-3	2-6	2-10	3-1	3-5	3-8	4-0	4-3	4-6

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-8	0-9
125.00	0-6	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2
150.00	0-9	0-10	0-11	1-0	1-2	1-3	1-4	1-5	1-7	1-8
175.00	1-0	1-2	1-3	1-5	1-7	1-8	1-10	2-0	2-1	2-3
200.00	1-4	1-6	1-8	1-10	2-0	2-3	2-5	2-7	2-9	2-11
225.00	1-8	1-10	2-1	2-4	2-7	2-10	3-0	3-3	3-6	3-9
250.00	2-1	2-4	2-7	2-10	3-2	3-5	3-9	4-0	4-4	4-7

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 102 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.102
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-4	1-5
175.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11
200.00	1-7	1-8	1-9	1-11	2-0	2-1	2-2	2-4	2-5	2-6
225.00	2-0	2-1	2-3	2-5	2-6	2-8	2-9	2-11	3-0	3-2
250.00	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-7	3-9	3-11
275.00	2-11	3-2	3-4	3-7	3-9	4-0	4-2	4-4	4-6	4-9
300.00	3-6	3-9	4-0	4-3	4-6	4-9	4-11	5-2	5-5	5-7
325.00	4-1	4-5	4-8	5-0	5-3	5-6	5-10	6-1	6-4	6-7
350.00	4-9	5-1	5-5	5-9	6-1	6-5	6-9	7-1	7-4	7-8
375.00	5-6	5-10	6-3	6-8	7-0	7-5	7-9	8-1	8-5	8-9

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-11	0-11	1-0	1-1	1-2	1-2	1-3	1-4	1-4	1-5
175.00	1-2	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-10	1-11
200.00	1-7	1-8	1-10	1-11	2-0	2-1	2-3	2-4	2-5	2-6
225.00	2-0	2-2	2-3	2-5	2-7	2-8	2-10	2-11	3-1	3-2
250.00	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-7	3-9	3-11
275.00	3-0	3-2	3-5	3-7	3-10	4-0	4-2	4-5	4-7	4-9
300.00	3-7	3-10	4-1	4-3	4-6	4-9	5-0	5-3	5-5	5-8
325.00	4-2	4-5	4-9	5-0	5-4	5-7	5-10	6-1	6-4	6-7
350.00	4-10	5-2	5-6	5-10	6-2	6-6	6-9	7-1	7-5	7-8
375.00	5-7	5-11	6-4	6-8	7-1	7-5	7-10	8-2	8-6	8-10

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 103 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.103
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-10	2-11	3-0	3-1	3-1	3-2	3-3	3-4	3-5	3-5
275.00	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2
300.00	4-1	4-2	4-4	4-5	4-6	4-7	4-8	4-9	4-11	5-0
325.00	4-10	4-11	5-0	5-2	5-3	5-5	5-6	5-7	5-9	5-10
350.00	5-7	5-8	5-10	6-0	6-1	6-3	6-5	6-6	6-8	6-9
375.00	6-5	6-7	6-9	6-10	7-0	7-2	7-4	7-6	7-8	7-9
400.00	7-3	7-5	7-8	7-10	8-0	8-2	8-4	8-6	8-8	8-10
425.00	8-2	8-5	8-7	8-10	9-0	9-3	9-5	9-7	9-10	10-0
450.00	9-2	9-5	9-8	9-11	10-1	10-4	10-7	10-9	11-0	11-2
475.00	10-3	10-6	10-9	11-0	11-3	11-6	11-9	12-0	12-3	12-6
500.00	11-4	11-8	11-11	12-3	12-6	12-9	13-0	13-4	13-7	13-10
525.00	12-6	12-10	13-2	13-6	13-9	14-1	14-5	14-8	15-0	15-3
550.00	13-9	14-1	14-5	14-9	15-1	15-5	15-9	16-1	16-5	16-9
575.00	15-0	15-5	15-9	16-2	16-6	16-11	17-3	17-7	17-11	18-3
600.00	16-4	16-9	17-2	17-7	18-0	18-5	18-9	19-2	19-7	19-11
625.00	17-9	18-2	18-8	19-1	19-6	20-0	20-5	20-10	21-3	21-7

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-10	2-11	3-0	3-1	3-2	3-2	3-3	3-4	3-5	3-6
275.00	3-5	3-6	3-8	3-9	3-10	3-10	3-11	4-0	4-1	4-2
300.00	4-1	4-3	4-4	4-5	4-6	4-7	4-8	4-10	4-11	5-0
325.00	4-10	4-11	5-1	5-2	5-4	5-5	5-6	5-8	5-9	5-10
350.00	5-7	5-9	5-10	6-0	6-2	6-3	6-5	6-6	6-8	6-9
375.00	6-5	6-7	6-9	6-11	7-1	7-2	7-4	7-6	7-8	7-9
400.00	7-4	7-6	7-8	7-10	8-0	8-2	8-4	8-6	8-8	8-10
425.00	8-3	8-6	8-8	8-10	9-1	9-3	9-5	9-8	9-10	10-0
450.00	9-3	9-6	9-9	9-11	10-2	10-5	10-7	10-10	11-0	11-3
475.00	10-4	10-7	10-10	11-1	11-4	11-7	11-10	12-0	12-3	12-6
500.00	11-5	11-9	12-0	12-3	12-7	12-10	13-1	13-4	13-7	13-10
525.00	12-7	12-11	13-3	13-6	13-10	14-2	14-5	14-9	15-0	15-3
550.00	13-10	14-2	14-6	14-10	15-2	15-6	15-10	16-2	16-5	16-9
575.00	15-1	15-6	15-10	16-3	16-7	16-11	17-4	17-8	18-0	18-4
600.00	16-5	16-10	17-3	17-8	18-1	18-6	18-10	19-3	19-7	19-11
625.00	17-10	18-4	18-9	19-2	19-7	20-0	20-5	20-10	21-3	21-8

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 105 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.105
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 1000 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.399	5.33	1500	5.33	1500*
0	0	0	0	0.197	3.15	1251	3.13	1261
30	0	0	0	0.197	3.91	1007	3.85	1024
40	0	0	0	0.197	4.19	940	4.12	956
50	0	0	0	0.197	4.49	879	4.41	894
60	0	0	0	0.197	4.78	824	4.7	839
70	0	0	0	0.197	5.08	776	5	789
80	0	0	0	0.197	5.38	732	5.3	744
90	0	0	0	0.197	5.69	694	5.6	704
100	0	0	0	0.197	5.98	659	5.9	668
110	0	0	0	0.197	6.28	628	6.2	636
120	0	0	0	0.197	6.57	600	6.5	607
130	0	0	0	0.197	6.85	576	6.79	581
167	0	0	0	0.197	7.82	505	7.7	512
212	0	0	0	0.197	8.84	447	8.72	453
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 107 OF 241		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH815.107	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 1500 LBS										


Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.399	8.33	1500	8.33	1500*
0	0	0	0	0.197	5.63	1094	5.56	1107
30	0	0	0	0.197	6.66	926	6.56	939
40	0	0	0	0.197	7.01	879	6.91	892
50	0	0	0	0.197	7.36	838	7.26	849
60	0	0	0	0.197	7.7	800	7.6	810
70	0	0	0	0.197	8.05	765	7.95	775
80	0	0	0	0.197	8.39	734	8.3	743
90	0	0	0	0.197	8.73	706	8.64	714
100	0	0	0	0.197	9.06	680	8.97	687
110	0	0	0	0.197	9.39	656	9.31	662
120	0	0	0	0.197	9.71	635	9.64	640
130	0	0	0	0.197	10.03	615	9.96	619
167	0	0	0	0.197	11.12	555	11	561
212	0	0	0	0.197	12.28	503	12.16	508

* Design Condition

* Design Condition

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>108 OF 241</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH815.108</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING</p> <p>#2 - 3/4 AWAC TENSION 1500 LBS</p> </div>				

Completely Revised



Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

OH815.108

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4
100.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-5	0-7
125.00	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-9	0-10
150.00	0-5	0-5	0-5	0-6	0-7	0-8	0-9	0-10	1-0	1-3
175.00	0-6	0-7	0-7	0-8	0-9	0-10	1-0	1-2	1-5	1-8
200.00	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-6	1-10	2-2

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4
100.00	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-7
125.00	0-3	0-3	0-4	0-4	0-5	0-6	0-6	0-8	0-9	0-11
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-11	1-1	1-4
175.00	0-6	0-7	0-7	0-8	0-9	0-11	1-1	1-3	1-6	1-9
200.00	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-7	1-11	2-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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SHEET 109 OF 241	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH815.109
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5
125.00	0-3	0-4	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-9
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0
175.00	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-5
200.00	0-9	0-9	0-10	0-11	1-1	1-2	1-4	1-6	1-8	1-10
225.00	0-11	1-0	1-1	1-2	1-4	1-6	1-8	1-10	2-1	2-4
250.00	1-1	1-3	1-4	1-6	1-8	1-10	2-1	2-4	2-7	2-10

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6
125.00	0-3	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9
150.00	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-1
175.00	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-5
200.00	0-9	0-10	0-10	1-0	1-1	1-3	1-4	1-6	1-8	1-11
225.00	0-11	1-0	1-1	1-3	1-4	1-6	1-9	1-11	2-2	2-5
250.00	1-2	1-3	1-4	1-6	1-8	1-11	2-2	2-5	2-8	2-11

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SHEET 110 OF 241	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH815.110
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11
175.00	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3
200.00	0-10	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-6	1-8
225.00	1-0	1-1	1-2	1-4	1-5	1-6	1-8	1-10	1-11	2-1
250.00	1-3	1-4	1-6	1-7	1-9	1-11	2-1	2-3	2-5	2-7
275.00	1-6	1-8	1-9	1-11	2-1	2-4	2-6	2-8	2-11	3-1
300.00	1-10	1-11	2-1	2-4	2-6	2-9	3-0	3-3	3-6	3-9
325.00	2-1	2-3	2-6	2-9	2-11	3-3	3-6	3-9	4-1	4-4
350.00	2-5	2-8	2-11	3-2	3-5	3-9	4-1	4-5	4-9	5-1
375.00	2-10	3-1	3-4	3-7	3-11	4-3	4-8	5-0	5-5	5-10

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11	0-11
175.00	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-3
200.00	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-8
225.00	1-0	1-1	1-3	1-4	1-5	1-7	1-9	1-10	2-0	2-2
250.00	1-3	1-4	1-6	1-8	1-9	1-11	2-1	2-3	2-5	2-8
275.00	1-6	1-8	1-10	2-0	2-2	2-4	2-7	2-9	3-0	3-2
300.00	1-10	2-0	2-2	2-4	2-7	2-10	3-1	3-3	3-6	3-9
325.00	2-2	2-4	2-6	2-9	3-0	3-3	3-7	3-10	4-2	4-5
350.00	2-6	2-8	2-11	3-3	3-6	3-10	4-2	4-6	4-10	5-2
375.00	2-10	3-1	3-4	3-8	4-0	4-5	4-9	5-2	5-6	5-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 111 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.111
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7
225.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	2-0
250.00	1-5	1-6	1-7	1-9	1-10	1-11	2-1	2-2	2-4	2-5
275.00	1-8	1-10	1-11	2-1	2-3	2-4	2-6	2-8	2-9	2-11
300.00	2-0	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6
325.00	2-4	2-7	2-9	2-11	3-1	3-4	3-6	3-8	3-11	4-1
350.00	2-9	2-11	3-2	3-4	3-7	3-10	4-1	4-3	4-6	4-9
375.00	3-2	3-5	3-7	3-10	4-2	4-5	4-8	4-11	5-2	5-5
400.00	3-7	3-10	4-1	4-5	4-8	5-0	5-4	5-7	5-11	6-2
425.00	4-1	4-4	4-8	5-0	5-4	5-8	6-0	6-4	6-8	7-0
450.00	4-7	4-10	5-3	5-7	5-11	6-4	6-8	7-1	7-6	7-10
475.00	5-1	5-5	5-10	6-3	6-8	7-1	7-6	7-11	8-4	8-9
500.00	5-7	6-0	6-5	6-11	7-4	7-10	8-3	8-9	9-3	9-8

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
200.00	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-7
225.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-10	1-11	2-0
250.00	1-5	1-6	1-8	1-9	1-10	2-0	2-1	2-3	2-4	2-5
275.00	1-9	1-10	2-0	2-1	2-3	2-5	2-7	2-8	2-10	3-0
300.00	2-1	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6
325.00	2-5	2-7	2-9	3-0	3-2	3-4	3-7	3-9	3-11	4-2
350.00	2-9	3-0	3-3	3-5	3-8	3-11	4-1	4-4	4-7	4-10
375.00	3-2	3-5	3-8	3-11	4-2	4-6	4-9	5-0	5-3	5-6
400.00	3-8	3-11	4-2	4-6	4-9	5-1	5-5	5-8	6-0	6-3
425.00	4-1	4-5	4-9	5-1	5-5	5-9	6-1	6-5	6-9	7-1
450.00	4-7	4-11	5-4	5-8	6-1	6-5	6-10	7-2	7-7	7-11
475.00	5-2	5-6	5-11	6-4	6-9	7-2	7-7	8-0	8-5	8-10
500.00	5-8	6-1	6-7	7-0	7-6	7-11	8-5	8-11	9-4	9-10

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 112 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.112
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 1500 LBS									

* Design Condition

* Design Condition

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B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 114 OF 241		Indicates Latest Revision			Completely Revised		X	New Page		Information Removed		OH815.114
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 2000 LBS										

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.399	6.24	2000	6.24	2000*
0	0	0	0	0.197	3.45	1783	3.44	1792
30	0	0	0	0.197	4.15	1484	4.08	1509
40	0	0	0	0.197	4.42	1394	4.33	1421
50	0	0	0	0.197	4.7	1309	4.6	1338
60	0	0	0	0.197	5.01	1230	4.89	1259
70	0	0	0	0.197	5.32	1157	5.19	1186
80	0	0	0	0.197	5.65	1090	5.51	1118
90	0	0	0	0.197	5.99	1029	5.84	1055
100	0	0	0	0.197	6.33	973	6.18	997
110	0	0	0	0.197	6.68	923	6.53	944
120	0	0	0	0.197	7.03	877	6.88	896
130	0	0	0	0.197	7.38	835	7.23	852
167	0	0	0	0.197	8.64	713	8.48	727
212	0	0	0	0.197	9.96	619	9.78	630
* Design Condition								

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>116 OF 241</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH815.116
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
100.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
125.00	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5
150.00	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-7
175.00	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10
200.00	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	1-0	1-1

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
100.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-4
125.00	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-6
150.00	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8
175.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-11
200.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2

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[illegible]

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
125.00	0-2	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5
150.00	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-7
175.00	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10
200.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1
225.00	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-3	1-5
250.00	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-8

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
125.00	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5
150.00	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8
175.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-11
200.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2
225.00	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5
250.00	0-10	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-7	1-10

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 118 OF 241	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH815.118
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7
175.00	0-5	0-5	0-6	0-6	0-6	0-7	0-8	0-8	0-9	0-10
200.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1
225.00	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
250.00	0-10	0-11	0-11	1-0	1-1	1-2	1-4	1-5	1-6	1-8
275.00	1-0	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-10	2-0
300.00	1-2	1-3	1-4	1-6	1-7	1-9	1-10	2-0	2-3	2-5
325.00	1-5	1-6	1-7	1-9	1-10	2-0	2-2	2-5	2-7	2-10
350.00	1-8	1-9	1-10	2-0	2-2	2-4	2-6	2-9	3-0	3-3
375.00	1-11	2-0	2-2	2-4	2-6	2-8	2-11	3-2	3-5	3-9

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-8
175.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10
200.00	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-1
225.00	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5
250.00	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-9
275.00	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-9	1-11	2-1
300.00	1-3	1-4	1-5	1-6	1-8	1-9	1-11	2-1	2-4	2-6
325.00	1-5	1-6	1-8	1-9	1-11	2-1	2-3	2-6	2-8	2-11
350.00	1-8	1-9	1-11	2-1	2-3	2-5	2-7	2-10	3-2	3-5
375.00	1-11	2-0	2-2	2-4	2-7	2-9	3-0	3-3	3-7	3-11

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 119 OF 241	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH815.119
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span:		400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-7	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1
225.00	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4
250.00	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-8
275.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-10	2-0
300.00	1-3	1-4	1-6	1-7	1-8	1-10	1-11	2-1	2-3	2-5
325.00	1-6	1-7	1-9	1-10	2-0	2-1	2-3	2-5	2-7	2-9
350.00	1-9	1-10	2-0	2-1	2-3	2-5	2-7	2-10	3-0	3-3
375.00	2-0	2-2	2-3	2-5	2-7	2-10	3-0	3-3	3-6	3-9
400.00	2-3	2-5	2-7	2-9	3-0	3-2	3-5	3-8	3-11	4-3
425.00	2-7	2-9	2-11	3-2	3-4	3-7	3-10	4-2	4-5	4-9
450.00	2-11	3-1	3-3	3-6	3-9	4-0	4-4	4-8	5-0	5-4
475.00	3-3	3-5	3-8	3-11	4-2	4-6	4-10	5-2	5-7	6-0
500.00	3-7	3-10	4-1	4-4	4-8	5-0	5-4	5-9	6-2	6-7

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-7	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-1
225.00	0-9	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-5
250.00	0-11	1-0	1-0	1-1	1-2	1-3	1-5	1-6	1-7	1-8
275.00	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-9	1-11	2-1
300.00	1-4	1-5	1-6	1-7	1-9	1-10	2-0	2-2	2-3	2-5
325.00	1-6	1-8	1-9	1-10	2-0	2-2	2-4	2-6	2-8	2-10
350.00	1-9	1-11	2-0	2-2	2-4	2-6	2-8	2-11	3-1	3-4
375.00	2-0	2-2	2-4	2-6	2-8	2-11	3-1	3-4	3-7	3-10
400.00	2-4	2-6	2-8	2-10	3-1	3-3	3-6	3-9	4-1	4-4
425.00	2-7	2-9	3-0	3-2	3-5	3-8	4-0	4-3	4-7	4-11
450.00	2-11	3-1	3-4	3-7	3-10	4-2	4-6	4-10	5-2	5-6
475.00	3-3	3-6	3-9	4-0	4-4	4-7	5-0	5-4	5-9	6-2
500.00	3-7	3-10	4-2	4-5	4-9	5-1	5-6	5-11	6-4	6-10

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 120 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.120
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 2000 LBS									

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
275.00	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-10	1-11	2-0
300.00	1-5	1-6	1-7	1-8	1-10	1-11	2-0	2-2	2-3	2-5
325.00	1-8	1-9	1-10	2-0	2-1	2-3	2-5	2-6	2-8	2-10
350.00	1-11	2-0	2-2	2-4	2-5	2-7	2-9	2-11	3-1	3-3
375.00	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-7	3-9
400.00	2-6	2-8	2-10	3-0	3-2	3-5	3-7	3-10	4-1	4-3
425.00	2-10	3-0	3-2	3-5	3-7	3-10	4-1	4-4	4-7	4-10
450.00	3-2	3-4	3-7	3-10	4-1	4-4	4-7	4-10	5-2	5-5
475.00	3-6	3-9	4-0	4-3	4-6	4-10	5-1	5-5	5-9	6-0
500.00	3-11	4-2	4-5	4-8	5-0	5-4	5-8	6-0	6-4	6-8
525.00	4-4	4-7	4-10	5-2	5-6	5-10	6-3	6-7	7-0	7-4
550.00	4-9	5-0	5-4	5-8	6-1	6-5	6-10	7-3	7-8	8-1
575.00	5-2	5-6	5-10	6-3	6-7	7-0	7-6	7-11	8-4	8-10
600.00	5-7	6-0	6-4	6-9	7-2	7-8	8-2	8-7	9-1	9-7
625.00	6-1	6-6	6-11	7-4	7-10	8-4	8-10	9-4	9-11	10-5

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>121 OF 241</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH815.121
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 2000 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.399	0.81	2460	0.8	2500*
0	0	0	0	0.197	0.37	2664	0.37	2680
30	0	0	0	0.197	0.43	2277	0.42	2336
40	0	0	0	0.197	0.46	2149	0.44	2219
50	0	0	0	0.197	0.49	2021	0.47	2102
60	0	0	0	0.197	0.52	1894	0.5	1984
70	0	0	0	0.197	0.56	1768	0.53	1865
80	0	0	0	0.197	0.6	1642	0.56	1746
90	0	0	0	0.197	0.65	1518	0.61	1627
100	0	0	0	0.197	0.71	1396	0.65	1508
110	0	0	0	0.197	0.77	1276	0.71	1390
120	0	0	0	0.197	0.85	1159	0.77	1273
130	0	0	0	0.197	0.94	1047	0.85	1158
167	0	0	0	0.197	1.39	707	1.26	780
212	0	0	0	0.197	2.09	471	1.89	521

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>122 OF 241</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH815.122	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 2500 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	0.399	3.22	2479	3.2	2500*
0	0	0	0	0.197	1.56	2521	1.55	2535
30	0	0	0	0.197	1.83	2154	1.79	2204
40	0	0	0	0.197	1.94	2034	1.88	2094
50	0	0	0	0.197	2.06	1916	1.99	1983
60	0	0	0	0.197	2.19	1801	2.1	1874
70	0	0	0	0.197	2.33	1689	2.23	1766
80	0	0	0	0.197	2.49	1580	2.37	1660
90	0	0	0	0.197	2.67	1474	2.53	1555
100	0	0	0	0.197	2.87	1374	2.71	1454
110	0	0	0	0.197	3.08	1278	2.9	1357
120	0	0	0	0.197	3.32	1189	3.12	1264
130	0	0	0	0.197	3.57	1105	3.35	1177
167	0	0	0	0.197	4.6	856	4.35	906
212	0	0	0	0.197	5.79	681	5.53	714
* Design Condition								

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>123 OF 241</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.123
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 2500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.399	5.02	2489	4.99	2500*
0	0	0	0	0.197	2.54	2420	2.53	2433
30	0	0	0	0.197	2.98	2070	2.91	2114
40	0	0	0	0.197	3.15	1957	3.06	2009
50	0	0	0	0.197	3.33	1848	3.23	1905
60	0	0	0	0.197	3.54	1742	3.41	1803
70	0	0	0	0.197	3.76	1640	3.61	1704
80	0	0	0	0.197	3.99	1542	3.83	1607
90	0	0	0	0.197	4.25	1448	4.07	1514
100	0	0	0	0.197	4.53	1360	4.32	1424
110	0	0	0	0.197	4.82	1278	4.6	1340
120	0	0	0	0.197	5.13	1201	4.89	1260
130	0	0	0	0.197	5.45	1131	5.2	1185
167	0	0	0	0.197	6.71	918	6.44	956
212	0	0	0	0.197	8.12	759	7.85	785
* Design Condition								

* Design Condition

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<div style="text-align: center;"> <p>SHEET</p> <p>124 OF 241</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH815.124</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING</p> <p>#2 - 3/4 AWAC TENSION 2500 LBS</p> </div>				

Completely Revised



Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2500 LBS

OH815.124

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
150.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5
175.00	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6
200.00	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4
150.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7
200.00	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
150.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7
200.00	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9
225.00	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11
250.00	0-8	0-8	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-1

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-6	0-7
200.00	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9
225.00	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0
250.00	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-1	1-2

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7
200.00	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9
225.00	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11
250.00	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-0	1-1
275.00	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-4
300.00	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7
325.00	1-1	1-2	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-11
350.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-2
375.00	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-2	2-4	2-6

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5
175.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7
200.00	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-9
225.00	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11	1-0
250.00	0-8	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-2
275.00	0-10	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-5
300.00	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-6	1-7	1-9
325.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-11	2-0
350.00	1-3	1-4	1-5	1-6	1-8	1-9	1-10	2-0	2-2	2-4
375.00	1-6	1-7	1-8	1-9	1-10	2-0	2-2	2-4	2-6	2-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>127 OF 241</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div style="color: orange; font-size: 2em;">X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH815.127
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9
225.00	0-6	0-7	0-7	0-8	0-8	0-8	0-9	0-10	0-10	0-11
250.00	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-1	1-2
275.00	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-4
300.00	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-8
325.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-11
350.00	1-4	1-4	1-5	1-6	1-7	1-9	1-10	1-11	2-1	2-3
375.00	1-6	1-7	1-8	1-9	1-10	2-0	2-1	2-3	2-5	2-7
400.00	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-6	2-9	2-11
425.00	1-11	2-0	2-1	2-3	2-4	2-6	2-8	2-10	3-1	3-3
450.00	2-2	2-3	2-5	2-6	2-8	2-10	3-0	3-2	3-5	3-8
475.00	2-5	2-6	2-8	2-10	3-0	3-2	3-4	3-7	3-10	4-1
500.00	2-8	2-10	2-11	3-1	3-3	3-6	3-9	4-0	4-3	4-6

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-5	0-5	0-6	0-6	0-7	0-7	0-7	0-8	0-9	0-9
225.00	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11	1-0
250.00	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-1	1-1	1-2
275.00	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-5
300.00	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-9
325.00	1-2	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-11	2-0
350.00	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-1	2-2	2-4
375.00	1-6	1-7	1-8	1-10	1-11	2-1	2-2	2-4	2-6	2-9
400.00	1-9	1-10	1-11	2-1	2-2	2-4	2-6	2-8	2-10	3-1
425.00	1-11	2-1	2-2	2-4	2-6	2-8	2-10	3-0	3-3	3-6
450.00	2-2	2-4	2-5	2-7	2-9	2-11	3-2	3-5	3-8	3-11
475.00	2-5	2-7	2-9	2-11	3-1	3-3	3-6	3-9	4-1	4-4
500.00	2-8	2-10	3-0	3-3	3-5	3-8	3-11	4-2	4-6	4-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 128 OF 241		Indicates Latest Revision									OH815.128
		Completely Revised X New Page Information Removed									
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 2500 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 130 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.130
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 3000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.399	4.22	2961	4.16	3000*
0	0	0	0	0.197	2.06	2983	2.04	3017
30	0	0	0	0.197	2.36	2614	2.29	2694
40	0	0	0	0.197	2.47	2493	2.38	2585
50	0	0	0	0.197	2.59	2373	2.49	2476
60	0	0	0	0.197	2.73	2255	2.6	2367
70	0	0	0	0.197	2.88	2139	2.73	2259
80	0	0	0	0.197	3.04	2026	2.86	2151
90	0	0	0	0.197	3.22	1914	3.01	2043
100	0	0	0	0.197	3.41	1806	3.18	1937
110	0	0	0	0.197	3.62	1702	3.36	1833
120	0	0	0	0.197	3.85	1601	3.56	1731
130	0	0	0	0.197	4.09	1505	3.77	1632
167	0	0	0	0.197	5.15	1195	4.74	1299
212	0	0	0	0.197	6.49	949	6.14	1004

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>132 OF 241</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH815.132</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING</p> <p>#2 - 3/4 AWAC TENSION 3000 LBS</p> </div>					

Completely Revised

New Page

Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 3000 LBS

OH815.132

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5
200.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3
150.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-4	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5
200.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-6	0-7

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[illegible]

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5
200.00	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-5	0-6	0-6
225.00	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-7	0-8
250.00	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3
150.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5
200.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-6	0-7
225.00	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-9
250.00	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 134 OF 241	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH815.134
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 3000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4
175.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5
200.00	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6
225.00	0-5	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8
250.00	0-6	0-7	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10
275.00	0-8	0-8	0-8	0-9	0-9	0-9	0-10	0-11	0-11	1-0
300.00	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2
325.00	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-3	1-4	1-4
350.00	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7
375.00	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5
200.00	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7
225.00	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9
250.00	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11
275.00	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1
300.00	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3
325.00	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6
350.00	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-8	1-9
375.00	1-3	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	2-0

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 135 OF 241	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH815.135
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 3000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6
225.00	0-5	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-8	0-8
250.00	0-6	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10
275.00	0-8	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0
300.00	0-9	0-10	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2
325.00	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-3	1-4	1-5
350.00	1-1	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-6	1-7
375.00	1-2	1-3	1-4	1-4	1-5	1-6	1-7	1-8	1-9	1-10
400.00	1-4	1-5	1-6	1-7	1-7	1-8	1-9	1-11	2-0	2-1
425.00	1-7	1-7	1-8	1-9	1-10	1-11	2-0	2-2	2-3	2-5
450.00	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-5	2-6	2-8
475.00	1-11	2-0	2-1	2-2	2-3	2-5	2-6	2-8	2-10	3-0
500.00	2-2	2-3	2-4	2-5	2-6	2-8	2-10	2-11	3-1	3-4

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7
225.00	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9
250.00	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-11
275.00	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1
300.00	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-3
325.00	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-5	1-6
350.00	1-1	1-2	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
375.00	1-3	1-4	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-0
400.00	1-5	1-6	1-7	1-7	1-8	1-10	1-11	2-0	2-2	2-4
425.00	1-7	1-8	1-9	1-10	1-11	2-0	2-2	2-3	2-5	2-7
450.00	1-9	1-10	1-11	2-1	2-2	2-3	2-5	2-7	2-9	2-11
475.00	2-0	2-1	2-2	2-3	2-5	2-7	2-8	2-10	3-0	3-3
500.00	2-2	2-4	2-5	2-6	2-8	2-10	3-0	3-2	3-4	3-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 136 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.136
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 3000 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.399	2.32	3444	2.28	3500*
0	0	0	0	0.197	1.1	3590	1.09	3618
30	0	0	0	0.197	1.23	3206	1.19	3301
40	0	0	0	0.197	1.28	3079	1.23	3192
50	0	0	0	0.197	1.33	2952	1.28	3083
60	0	0	0	0.197	1.39	2826	1.33	2972
70	0	0	0	0.197	1.46	2700	1.38	2861
80	0	0	0	0.197	1.53	2576	1.43	2749
90	0	0	0	0.197	1.61	2451	1.5	2636
100	0	0	0	0.197	1.69	2328	1.56	2522
110	0	0	0	0.197	1.79	2207	1.64	2408
120	0	0	0	0.197	1.89	2086	1.72	2293
130	0	0	0	0.197	2	1968	1.81	2178
167	0	0	0	0.197	2.54	1552	2.24	1760
212	0	0	0	0.197	3.37	1168	3.05	1293

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 139 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.139
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 3500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	0.399	3.62	3452	3.57	3500*
0	0	0	0	0.197	1.74	3536	1.73	3566
30	0	0	0	0.197	1.95	3157	1.89	3251
40	0	0	0	0.197	2.03	3032	1.96	3143
50	0	0	0	0.197	2.12	2908	2.03	3035
60	0	0	0	0.197	2.21	2784	2.1	2926
70	0	0	0	0.197	2.31	2661	2.19	2817
80	0	0	0	0.197	2.42	2540	2.27	2706
90	0	0	0	0.197	2.54	2420	2.37	2596
100	0	0	0	0.197	2.68	2301	2.48	2485
110	0	0	0	0.197	2.82	2184	2.59	2374
120	0	0	0	0.197	2.98	2070	2.72	2263
130	0	0	0	0.197	3.15	1957	2.86	2153
167	0	0	0	0.197	3.92	1571	3.5	1758
212	0	0	0	0.197	5.05	1220	4.62	1333

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>140 OF 241</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH815.140</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING</p> <p>#2 - 3/4 AWAC TENSION 3500 LBS</p> </div>						

[illegible]

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0- 0	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1
100.00	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1
125.00	0- 1	0- 1	0- 1	0- 2	0- 2	0- 2	0- 2	0- 2	0- 2	0- 2
150.00	0- 2	0- 2	0- 2	0- 2	0- 2	0- 2	0- 3	0- 3	0- 3	0- 3
175.00	0- 3	0- 3	0- 3	0- 3	0- 3	0- 3	0- 3	0- 4	0- 4	0- 4
200.00	0- 3	0- 4	0- 4	0- 4	0- 4	0- 4	0- 4	0- 5	0- 5	0- 5

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 141 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.141
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 3500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1
125.00	0- 1	0- 1	0- 1	0- 1	0- 2	0- 2	0- 2	0- 2	0- 2	0- 2
150.00	0- 2	0- 2	0- 2	0- 2	0- 2	0- 2	0- 2	0- 2	0- 3	0- 3
175.00	0- 3	0- 3	0- 3	0- 3	0- 3	0- 3	0- 3	0- 3	0- 4	0- 4
200.00	0- 3	0- 4	0- 4	0- 4	0- 4	0- 4	0- 4	0- 4	0- 5	0- 5
225.00	0- 4	0- 4	0- 5	0- 5	0- 5	0- 5	0- 5	0- 6	0- 6	0- 6
250.00	0- 5	0- 5	0- 6	0- 6	0- 6	0- 6	0- 7	0- 7	0- 7	0- 8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1	0- 1
125.00	0- 1	0- 1	0- 1	0- 2	0- 2	0- 2	0- 2	0- 2	0- 2	0- 2
150.00	0- 2	0- 2	0- 2	0- 2	0- 2	0- 2	0- 3	0- 3	0- 3	0- 3
175.00	0- 3	0- 3	0- 3	0- 3	0- 3	0- 3	0- 3	0- 4	0- 4	0- 4
200.00	0- 3	0- 4	0- 4	0- 4	0- 4	0- 4	0- 5	0- 5	0- 5	0- 5
225.00	0- 4	0- 5	0- 5	0- 5	0- 5	0- 5	0- 6	0- 6	0- 6	0- 7
250.00	0- 5	0- 6	0- 6	0- 6	0- 6	0- 7	0- 7	0- 7	0- 8	0- 8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 142 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH815.142
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 3500 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
200.00	0-3	0-4	0-4	0-4	0-4	0-4	0-4	0-4	0-5	0-5
225.00	0-4	0-4	0-5	0-5	0-5	0-5	0-5	0-6	0-6	0-6
250.00	0-5	0-6	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8
275.00	0-6	0-7	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9
300.00	0-8	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-10	0-11
325.00	0-9	0-9	0-10	0-10	0-10	0-11	0-11	1-0	1-0	1-1
350.00	0-10	0-11	0-11	1-0	1-0	1-0	1-1	1-2	1-2	1-3
375.00	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-4	1-4	1-5

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5
225.00	0-4	0-5	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7
250.00	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8
275.00	0-7	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10
300.00	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-11	0-11	1-0
325.00	0-9	0-10	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2
350.00	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-3	1-3	1-4
375.00	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 143 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.143
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 3500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-3	0-4	0-4	0-4	0-4	0-4	0-4	0-4	0-5	0-5
225.00	0-4	0-5	0-5	0-5	0-5	0-5	0-5	0-6	0-6	0-6
250.00	0-5	0-6	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8
275.00	0-7	0-7	0-7	0-7	0-8	0-8	0-8	0-8	0-9	0-9
300.00	0-8	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-11	0-11
325.00	0-9	0-9	0-10	0-10	0-11	0-11	0-11	1-0	1-0	1-1
350.00	0-11	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3
375.00	1-0	1-1	1-1	1-1	1-2	1-3	1-3	1-4	1-4	1-5
400.00	1-2	1-2	1-3	1-3	1-4	1-5	1-5	1-6	1-7	1-8
425.00	1-4	1-4	1-5	1-5	1-6	1-7	1-7	1-8	1-9	1-10
450.00	1-6	1-6	1-7	1-7	1-8	1-9	1-10	1-11	2-0	2-1
475.00	1-8	1-8	1-9	1-10	1-10	1-11	2-0	2-1	2-2	2-4
500.00	1-10	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-7

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-4	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5
225.00	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-6	0-7
250.00	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-8
275.00	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-10
300.00	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-11	0-11	1-0
325.00	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2
350.00	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-3	1-4	1-4
375.00	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7
400.00	1-2	1-3	1-3	1-4	1-5	1-6	1-6	1-7	1-8	1-9
425.00	1-4	1-5	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0
450.00	1-6	1-7	1-7	1-8	1-9	1-10	1-11	2-0	2-2	2-3
475.00	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-5	2-6
500.00	1-10	1-11	2-0	2-1	2-2	2-3	2-5	2-6	2-8	2-9

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 144 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.144
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 3500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-6	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-7	0-8
275.00	0-7	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-9
300.00	0-8	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-11	0-11
325.00	0-9	0-10	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-1
350.00	0-11	0-11	1-0	1-0	1-0	1-1	1-1	1-2	1-3	1-3
375.00	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-5	1-6
400.00	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-7	1-8
425.00	1-4	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-9	1-10
450.00	1-6	1-6	1-7	1-8	1-8	1-9	1-10	1-11	2-0	2-1
475.00	1-8	1-9	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4
500.00	1-10	1-11	2-0	2-0	2-1	2-2	2-3	2-4	2-6	2-7
525.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-9	2-10
550.00	2-3	2-3	2-4	2-5	2-7	2-8	2-9	2-10	3-0	3-2
575.00	2-5	2-6	2-7	2-8	2-9	2-11	3-0	3-2	3-3	3-5
600.00	2-8	2-9	2-10	2-11	3-0	3-2	3-3	3-5	3-7	3-9
625.00	2-10	3-0	3-1	3-2	3-3	3-5	3-7	3-8	3-10	4-1

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-8
275.00	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-10
300.00	0-8	0-8	0-9	0-9	0-10	0-10	0-10	0-11	1-0	1-0
325.00	0-10	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-2
350.00	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-5
375.00	1-1	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-6	1-7
400.00	1-2	1-3	1-4	1-4	1-5	1-6	1-7	1-8	1-9	1-10
425.00	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-10	1-11	2-0
450.00	1-6	1-7	1-8	1-9	1-9	1-10	2-0	2-1	2-2	2-3
475.00	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-4	2-5	2-7
500.00	1-11	1-11	2-0	2-1	2-3	2-4	2-5	2-7	2-8	2-10
525.00	2-1	2-2	2-3	2-4	2-5	2-7	2-8	2-10	2-11	3-1
550.00	2-3	2-4	2-5	2-7	2-8	2-10	2-11	3-1	3-3	3-5
575.00	2-6	2-7	2-8	2-10	2-11	3-1	3-2	3-4	3-6	3-9
600.00	2-8	2-10	2-11	3-1	3-2	3-4	3-6	3-8	3-10	4-1
625.00	2-11	3-1	3-2	3-4	3-5	3-7	3-9	4-0	4-2	4-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 145 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.145
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 3500 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	0.627	3.14	1000	3.14	1000*
0	0	0	0	0.197	1.82	541	1.78	555
30	0	0	0	0.197	2.39	412	2.34	422
40	0	0	0	0.197	2.57	383	2.52	391
50	0	0	0	0.197	2.75	358	2.71	364
60	0	0	0	0.197	2.93	337	2.88	342
70	0	0	0	0.197	3.1	318	3.06	323
80	0	0	0	0.197	3.26	302	3.22	306
90	0	0	0	0.197	3.42	288	3.39	291
100	0	0	0	0.197	3.57	276	3.54	279
110	0	0	0	0.197	3.72	265	3.67	269
120	0	0	0	0.197	3.86	256	3.8	260
130	0	0	0	0.197	3.99	247	3.93	251
167	0	0	0	0.197	4.43	223	4.37	226
212	0	0	0	0.197	4.93	200	4.87	203
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D							
SHEET 146 OF 241		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH815.146
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 1000 LBS											

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 147 OF 241		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH815.147	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	0.627	19.71	1000	19.71	1000*
0	0	0	0	0.197	18.33	338	18.26	339
30	0	0	0	0.197	18.91	327	18.85	328
40	0	0	0	0.197	19.1	324	19.05	325
50	0	0	0	0.197	19.29	321	19.24	322
60	0	0	0	0.197	19.48	318	19.43	319
70	0	0	0	0.197	19.67	315	19.62	316
80	0	0	0	0.197	19.85	312	19.81	313
90	0	0	0	0.197	20.03	309	20	310
100	0	0	0	0.197	20.21	307	20.18	307
110	0	0	0	0.197	20.39	304	20.34	305
120	0	0	0	0.197	20.57	301	20.51	302
130	0	0	0	0.197	20.73	299	20.67	300
167	0	0	0	0.197	21.32	291	21.25	292
212	0	0	0	0.197	22.01	282	21.94	283

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>148 OF 241</p> </div>	Indicates Latest Revision	Completely Revised	<div style="border: 1px solid black; padding: 2px;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH815.148</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING</p> <p>#2 - 3/4 AWAC TENSION 1000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-7	0-7	0-8
100.00	0-4	0-4	0-5	0-6	0-7	0-9	0-10	1-0	1-1	1-2
125.00	0-6	0-7	0-8	0-10	1-0	1-2	1-4	1-6	1-8	1-10
150.00	0-8	0-10	1-0	1-2	1-5	1-8	1-11	2-2	2-5	2-7
175.00	1-0	1-1	1-4	1-7	1-11	2-3	2-7	3-0	3-3	3-7
200.00	1-3	1-5	1-9	2-1	2-5	2-11	3-5	3-10	4-3	4-8

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-7	0-8
100.00	0-4	0-4	0-5	0-6	0-8	0-9	0-10	1-0	1-1	1-3
125.00	0-6	0-7	0-8	0-10	1-0	1-2	1-4	1-7	1-9	1-11
150.00	0-9	0-10	1-0	1-2	1-5	1-8	2-0	2-3	2-6	2-9
175.00	1-0	1-2	1-4	1-8	1-11	2-4	2-8	3-0	3-5	3-9
200.00	1-3	1-6	1-9	2-2	2-7	3-0	3-6	4-0	4-5	4-10

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 149 OF 241	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH815.149
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11
125.00	0-10	0-11	1-0	1-1	1-2	1-2	1-3	1-4	1-5	1-5
150.00	1-3	1-4	1-5	1-6	1-7	1-9	1-10	1-11	2-0	2-1
175.00	1-8	1-9	1-11	2-1	2-2	2-4	2-6	2-7	2-8	2-10
200.00	2-2	2-4	2-6	2-8	2-11	3-1	3-3	3-5	3-6	3-8
225.00	2-9	3-0	3-2	3-5	3-8	3-10	4-1	4-3	4-6	4-8
250.00	3-4	3-8	3-11	4-3	4-6	4-9	5-0	5-4	5-6	5-9

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11
125.00	0-10	0-11	1-0	1-1	1-2	1-3	1-3	1-4	1-5	1-5
150.00	1-3	1-4	1-5	1-7	1-8	1-9	1-10	1-11	2-0	2-1
175.00	1-8	1-10	2-0	2-1	2-3	2-4	2-6	2-7	2-9	2-10
200.00	2-2	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-7	3-9
225.00	2-9	3-0	3-3	3-6	3-8	3-11	4-2	4-4	4-6	4-9
250.00	3-5	3-9	4-0	4-4	4-7	4-10	5-1	5-4	5-7	5-10

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 150 OF 241	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH815.150
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-6	1-7	1-7	1-8	1-8	1-9	1-9	1-10	1-11	1-11
175.00	2-1	2-1	2-2	2-3	2-4	2-4	2-5	2-6	2-7	2-7
200.00	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5
225.00	3-5	3-6	3-7	3-9	3-10	3-11	4-0	4-2	4-3	4-4
250.00	4-2	4-4	4-5	4-7	4-9	4-10	5-0	5-1	5-3	5-4
275.00	5-1	5-3	5-5	5-7	5-9	5-10	6-0	6-2	6-4	6-5
300.00	6-0	6-3	6-5	6-7	6-10	7-0	7-2	7-4	7-6	7-8
325.00	7-1	7-4	7-6	7-9	8-0	8-2	8-5	8-7	8-10	9-0
350.00	8-2	8-6	8-9	9-0	9-3	9-6	9-9	10-0	10-3	10-5
375.00	9-5	9-9	10-0	10-4	10-7	10-11	11-2	11-6	11-9	12-0

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-6	1-7	1-7	1-8	1-9	1-9	1-10	1-10	1-11	1-11
175.00	2-1	2-2	2-2	2-3	2-4	2-5	2-5	2-6	2-7	2-7
200.00	2-8	2-9	2-11	3-0	3-0	3-1	3-2	3-3	3-4	3-5
225.00	3-5	3-6	3-8	3-9	3-10	3-11	4-1	4-2	4-3	4-4
250.00	4-3	4-4	4-6	4-7	4-9	4-11	5-0	5-1	5-3	5-4
275.00	5-1	5-3	5-5	5-7	5-9	5-11	6-1	6-2	6-4	6-6
300.00	6-1	6-3	6-6	6-8	6-10	7-0	7-2	7-4	7-7	7-9
325.00	7-2	7-4	7-7	7-10	8-0	8-3	8-5	8-8	8-10	9-1
350.00	8-3	8-7	8-10	9-1	9-4	9-7	9-10	10-0	10-3	10-6
375.00	9-6	9-10	10-1	10-5	10-8	11-0	11-3	11-6	11-9	12-1

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 151 OF 241	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH815.151
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 1000 LBS					

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	0.627	2.09	1500	2.09	1500*
0	0	0	0	0.197	0.74	1338	0.73	1346
30	0	0	0	0.197	0.99	994	0.97	1019
40	0	0	0	0.197	1.11	890	1.07	917
50	0	0	0	0.197	1.24	794	1.2	822
60	0	0	0	0.197	1.39	708	1.34	735
70	0	0	0	0.197	1.56	632	1.5	656
80	0	0	0	0.197	1.74	567	1.68	588
90	0	0	0	0.197	1.93	512	1.86	530
100	0	0	0	0.197	2.12	466	2.05	481
110	0	0	0	0.197	2.3	428	2.24	440
120	0	0	0	0.197	2.49	396	2.42	408
130	0	0	0	0.197	2.67	369	2.58	383
167	0	0	0	0.197	3.24	305	3.14	314
212	0	0	0	0.197	3.85	256	3.76	262

* Design Condition

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>154 OF 241</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH815.154
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 1500 LBS									

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>156 OF 241</div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH815.156	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7
125.00	0-3	0-4	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-11
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-10	0-11	1-2	1-4
175.00	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-3	1-6	1-10
200.00	0-8	0-9	0-10	0-11	1-1	1-3	1-5	1-8	2-0	2-5

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-2	0-2	0-2	0-3	0-3	0-4	0-4
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-8
125.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-10	1-0
150.00	0-5	0-5	0-6	0-7	0-7	0-9	0-10	1-0	1-2	1-5
175.00	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-4	1-8	2-0
200.00	0-8	0-9	0-10	1-0	1-1	1-3	1-6	1-9	2-2	2-7

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 157 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.157
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0- 3	0- 3	0- 3	0- 4	0- 4	0- 5	0- 5	0- 6	0- 6	0- 7
125.00	0- 4	0- 5	0- 5	0- 6	0- 6	0- 7	0- 8	0- 9	0-10	0-11
150.00	0- 6	0- 7	0- 7	0- 8	0- 9	0-10	0-11	1- 1	1- 2	1- 3
175.00	0- 8	0- 9	0-10	0-11	1- 0	1- 2	1- 3	1- 5	1- 7	1- 9
200.00	0-11	1- 0	1- 1	1- 2	1- 4	1- 6	1- 8	1-10	2- 1	2- 3
225.00	1- 1	1- 3	1- 4	1- 6	1- 8	1-11	2- 1	2- 4	2- 7	2-10
250.00	1- 4	1- 6	1- 8	1-10	2- 1	2- 4	2- 7	2-11	3- 2	3- 6

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0- 3	0- 3	0- 3	0- 4	0- 4	0- 5	0- 5	0- 6	0- 6	0- 7
125.00	0- 4	0- 5	0- 5	0- 6	0- 7	0- 7	0- 8	0- 9	0-10	0-11
150.00	0- 6	0- 7	0- 7	0- 8	0- 9	0-11	1- 0	1- 1	1- 2	1- 4
175.00	0- 8	0- 9	0-10	0-11	1- 1	1- 2	1- 4	1- 6	1- 7	1- 9
200.00	0-11	1- 0	1- 1	1- 3	1- 5	1- 7	1- 9	1-11	2- 1	2- 4
225.00	1- 2	1- 3	1- 5	1- 7	1- 9	2- 0	2- 2	2- 5	2- 8	2-11
250.00	1- 5	1- 7	1- 9	1-11	2- 2	2- 5	2- 9	3- 0	3- 4	3- 7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 158 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.158
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0- 8	0- 9	0-10	0-10	0-11	1- 0	1- 1	1- 1	1- 2	1- 3
175.00	0-11	1- 0	1- 1	1- 2	1- 3	1- 4	1- 5	1- 6	1- 7	1- 8
200.00	1- 2	1- 4	1- 5	1- 6	1- 8	1- 9	1-10	2- 0	2- 1	2- 2
225.00	1- 6	1- 8	1- 9	1-11	2- 1	2- 3	2- 4	2- 6	2- 7	2- 9
250.00	1-11	2- 1	2- 3	2- 5	2- 7	2- 9	2-11	3- 1	3- 3	3- 5
275.00	2- 3	2- 6	2- 8	2-11	3- 1	3- 4	3- 6	3- 9	3-11	4- 1
300.00	2- 9	2-11	3- 2	3- 5	3- 8	3-11	4- 2	4- 5	4- 8	4-11
325.00	3- 2	3- 5	3- 9	4- 0	4- 4	4- 7	4-11	5- 2	5- 6	5- 9
350.00	3- 8	4- 0	4- 4	4- 8	5- 0	5- 4	5- 8	6- 0	6- 4	6- 8
375.00	4- 3	4- 7	5- 0	5- 4	5- 9	6- 2	6- 6	6-11	7- 3	7- 8

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0- 8	0- 9	0-10	0-11	0-11	1- 0	1- 1	1- 2	1- 2	1- 3
175.00	0-11	1- 0	1- 1	1- 2	1- 3	1- 4	1- 5	1- 6	1- 7	1- 8
200.00	1- 3	1- 4	1- 5	1- 7	1- 8	1- 9	1-11	2- 0	2- 1	2- 2
225.00	1- 7	1- 8	1-10	2- 0	2- 1	2- 3	2- 5	2- 6	2- 8	2-10
250.00	1-11	2- 1	2- 3	2- 5	2- 7	2- 9	3- 0	3- 2	3- 3	3- 5
275.00	2- 4	2- 7	2- 9	3- 0	3- 2	3- 5	3- 7	3- 9	4- 0	4- 2
300.00	2- 9	3- 0	3- 3	3- 6	3- 9	4- 0	4- 3	4- 6	4- 9	5- 0
325.00	3- 3	3- 7	3-10	4- 2	4- 5	4- 9	5- 0	5- 3	5- 7	5-10
350.00	3-10	4- 1	4- 5	4-10	5- 2	5- 6	5-10	6- 2	6- 5	6- 9
375.00	4- 4	4- 9	5- 1	5- 6	5-11	6- 3	6- 8	7- 0	7- 5	7- 9

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Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1- 6	1- 7	1- 8	1- 9	1-10	1-11	1-11	2- 0	2- 1	2- 2
225.00	1-11	2- 0	2- 1	2- 2	2- 4	2- 5	2- 6	2- 7	2- 8	2- 9
250.00	2- 5	2- 6	2- 7	2- 9	2-10	2-11	3- 1	3- 2	3- 3	3- 4
275.00	2-11	3- 0	3- 2	3- 4	3- 5	3- 7	3- 8	3-10	3-11	4- 1
300.00	3- 5	3- 7	3- 9	3-11	4- 1	4- 3	4- 5	4- 6	4- 8	4-10
325.00	4- 0	4- 3	4- 5	4- 7	4- 9	5- 0	5- 2	5- 4	5- 6	5- 8
350.00	4- 8	4-11	5- 1	5- 4	5- 7	5- 9	6- 0	6- 2	6- 4	6- 7
375.00	5- 4	5- 7	5-10	6- 1	6- 4	6- 7	6-10	7- 1	7- 4	7- 6
400.00	6- 1	6- 5	6- 8	7- 0	7- 3	7- 6	7-10	8- 1	8- 4	8- 7
425.00	6-11	7- 3	7- 7	7-10	8- 2	8- 6	8-10	9- 1	9- 5	9- 8
450.00	7- 9	8- 1	8- 6	8-10	9- 2	9- 6	9-10	10- 2	10- 6	10-10
475.00	8- 7	9- 0	9- 5	9-10	10- 3	10- 7	11- 0	11- 4	11- 9	12- 1
500.00	9- 6	10- 0	10- 5	10-11	11- 4	11- 9	12- 2	12- 7	13- 0	13- 5

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1- 7	1- 8	1- 8	1- 9	1-10	1-11	2- 0	2- 0	2- 1	2- 2
225.00	2- 0	2- 1	2- 2	2- 3	2- 4	2- 5	2- 6	2- 7	2- 8	2- 9
250.00	2- 5	2- 7	2- 8	2- 9	2-10	3- 0	3- 1	3- 2	3- 3	3- 5
275.00	2-11	3- 1	3- 3	3- 4	3- 6	3- 7	3- 9	3-10	4- 0	4- 1
300.00	3- 6	3- 8	3-10	4- 0	4- 2	4- 3	4- 5	4- 7	4- 9	4-10
325.00	4- 1	4- 4	4- 6	4- 8	4-10	5- 0	5- 3	5- 5	5- 7	5- 9
350.00	4- 9	5- 0	5- 2	5- 5	5- 8	5-10	6- 1	6- 3	6- 5	6- 8
375.00	5- 6	5- 9	6- 0	6- 3	6- 6	6- 8	6-11	7- 2	7- 5	7- 7
400.00	6- 3	6- 6	6-10	7- 1	7- 4	7- 8	7-11	8- 2	8- 5	8- 8
425.00	7- 0	7- 4	7- 8	8- 0	8- 4	8- 7	8-11	9- 2	9- 6	9- 9
450.00	7-11	8- 3	8- 7	9- 0	9- 4	9- 8	10- 0	10- 4	10- 8	10-11
475.00	8- 9	9- 2	9- 7	10- 0	10- 5	10- 9	11- 2	11- 6	11-10	12- 2
500.00	9- 9	10- 2	10- 8	11- 1	11- 6	11-11	12- 4	12- 9	13- 2	13- 6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>160 OF 241</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH815.160
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 1500 LBS									

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	0.627	3.53	2000	3.53	2000*
0	0	0	0	0.197	1.28	1730	1.27	1744
30	0	0	0	0.197	1.6	1384	1.56	1418
40	0	0	0	0.197	1.74	1275	1.69	1313
50	0	0	0	0.197	1.89	1172	1.83	1212
60	0	0	0	0.197	2.06	1074	1.99	1116
70	0	0	0	0.197	2.25	984	2.16	1025
80	0	0	0	0.197	2.46	901	2.36	940
90	0	0	0	0.197	2.68	827	2.57	862
100	0	0	0	0.197	2.92	760	2.8	792
110	0	0	0	0.197	3.16	702	3.04	730
120	0	0	0	0.197	3.41	651	3.28	675
130	0	0	0	0.197	3.66	607	3.53	628
167	0	0	0	0.197	4.5	493	4.35	510
212	0	0	0	0.197	5.41	410	5.26	422

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	0.627	6.27	2000	6.27	2000*
0	0	0	0	0.197	2.83	1394	2.77	1423
30	0	0	0	0.197	3.51	1122	3.4	1158
40	0	0	0	0.197	3.78	1044	3.65	1079
50	0	0	0	0.197	4.05	973	3.92	1007
60	0	0	0	0.197	4.34	909	4.19	940
70	0	0	0	0.197	4.63	851	4.48	880
80	0	0	0	0.197	4.93	799	4.77	826
90	0	0	0	0.197	5.23	753	5.07	777
100	0	0	0	0.197	5.53	712	5.38	733
110	0	0	0	0.197	5.83	676	5.68	694
120	0	0	0	0.197	6.13	643	5.98	659
130	0	0	0	0.197	6.42	614	6.28	628
167	0	0	0	0.197	7.4	533	7.24	545
212	0	0	0	0.197	8.46	467	8.29	476

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Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	0.627	9.81	2000	9.81	2000*
0	0	0	0	0.197	5.56	1107	5.42	1137
30	0	0	0	0.197	6.59	935	6.41	961
40	0	0	0	0.197	6.94	888	6.75	913
50	0	0	0	0.197	7.29	845	7.1	868
60	0	0	0	0.197	7.64	807	7.45	828
70	0	0	0	0.197	7.98	772	7.79	791
80	0	0	0	0.197	8.33	740	8.14	757
90	0	0	0	0.197	8.67	711	8.48	727
100	0	0	0	0.197	9	685	8.82	699
110	0	0	0	0.197	9.33	661	9.16	673
120	0	0	0	0.197	9.65	639	9.49	650
130	0	0	0	0.197	9.97	618	9.82	628
167	0	0	0	0.197	11.05	558	10.87	567
212	0	0	0	0.197	12.21	505	12.03	513

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>164 OF 241</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH815.164</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING</p> <p>#2 - 3/4 AWAC TENSION 2000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
125.00	0-2	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5
150.00	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-8
175.00	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-11
200.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
125.00	0-2	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5
150.00	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-8
175.00	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-11
200.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4
125.00	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6
150.00	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8
175.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11
200.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-1	1-3

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4
125.00	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6
150.00	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8
175.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11
200.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-1	1-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>165 OF 241</h2> </div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.165
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 2000 LBS									

Indicates Latest Revision

Completely Revised



New Page

Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 2000 LBS

OH815.165

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4
125.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6
150.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-8
175.00	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11
200.00	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-3
225.00	0-8	0-9	0-10	0-10	0-11	1-0	1-2	1-3	1-5	1-7
250.00	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-9	1-11

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4
125.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-6
150.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9
175.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0
200.00	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-1	1-2	1-4
225.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-6	1-8
250.00	0-10	0-11	1-0	1-1	1-3	1-4	1-6	1-8	1-10	2-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 166 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.166
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9
175.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-10	0-11	1-0
200.00	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
225.00	0-10	0-11	0-11	1-0	1-1	1-3	1-4	1-5	1-7	1-8
250.00	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-9	1-11	2-1
275.00	1-3	1-4	1-5	1-6	1-8	1-10	2-0	2-2	2-4	2-7
300.00	1-5	1-7	1-8	1-10	2-0	2-2	2-4	2-7	2-10	3-0
325.00	1-8	1-10	2-0	2-2	2-4	2-6	2-9	3-0	3-3	3-7
350.00	2-0	2-2	2-4	2-6	2-8	2-11	3-3	3-6	3-10	4-2
375.00	2-3	2-5	2-8	2-10	3-1	3-5	3-8	4-0	4-4	4-9

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-9
175.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1
200.00	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5
225.00	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-9
250.00	1-0	1-1	1-2	1-4	1-5	1-7	1-8	1-10	2-0	2-2
275.00	1-3	1-4	1-6	1-7	1-9	1-11	2-1	2-3	2-5	2-8
300.00	1-6	1-7	1-9	1-11	2-1	2-3	2-6	2-8	2-11	3-2
325.00	1-9	1-11	2-0	2-3	2-5	2-8	2-11	3-2	3-5	3-8
350.00	2-0	2-2	2-4	2-7	2-10	3-1	3-4	3-8	4-0	4-4
375.00	2- 4	2- 6	2- 9	2-11	3- 3	3- 6	3-10	4- 2	4- 7	4-11

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div>SHEET</div> <div>167 OF 241</div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	OH815.167
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 2000 LBS						

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-10	0-10	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-5
225.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-10
250.00	1-3	1-4	1-5	1-6	1-8	1-9	1-10	2-0	2-1	2-3
275.00	1-6	1-7	1-9	1-10	2-0	2-1	2-3	2-5	2-6	2-8
300.00	1-9	1-11	2-1	2-2	2-4	2-6	2-8	2-10	3-0	3-2
325.00	2-1	2-3	2-5	2-7	2-9	2-11	3-2	3-4	3-7	3-9
350.00	2-5	2-7	2-10	3-0	3-3	3-5	3-8	3-11	4-1	4-4
375.00	2-9	3-0	3-3	3-5	3-8	3-11	4-2	4-6	4-9	5-0
400.00	3-2	3-5	3-8	3-11	4-2	4-6	4-9	5-1	5-5	5-8
425.00	3-7	3-10	4-1	4-5	4-9	5-1	5-5	5-9	6-1	6-5
450.00	4-0	4-4	4-7	4-11	5-4	5-8	6-1	6-5	6-10	7-2
475.00	4-6	4-10	5-2	5-6	5-11	6-4	6-9	7-2	7-7	8-0
500.00	5-0	5-4	5-8	6-1	6-7	7-0	7-6	7-11	8-5	8-11

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-5
225.00	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-8	1-9	1-10
250.00	1-3	1-4	1-6	1-7	1-8	1-10	1-11	2-1	2-2	2-3
275.00	1-7	1-8	1-9	1-11	2-1	2-2	2-4	2-6	2-7	2-9
300.00	1-10	2-0	2-1	2-3	2-5	2-7	2-9	2-11	3-1	3-3
325.00	2-2	2-4	2-6	2-8	2-10	3-1	3-3	3-5	3-8	3-10
350.00	2-6	2-8	2-11	3-1	3-4	3-7	3-9	4-0	4-3	4-6
375.00	2-10	3-1	3-4	3-7	3-10	4-1	4-4	4-7	4-10	5-2
400.00	3-3	3-6	3-9	4-1	4-4	4-8	4-11	5-3	5-6	5-10
425.00	3-8	4-0	4-3	4-7	4-11	5-3	5-7	5-11	6-3	6-7
450.00	4-2	4-5	4-9	5-2	5-6	5-10	6-3	6-7	7-0	7-5
475.00	4-7	4-11	5-4	5-9	6-1	6-6	6-11	7-5	7-10	8-3
500.00	5-1	5-6	5-11	6-4	6-9	7-3	7-8	8-2	8-8	9-1

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[illegible]

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	0.627	1.27	2476	1.25	2500*
0	0	0	0	0.197	0.38	2577	0.38	2588
30	0	0	0	0.197	0.45	2191	0.44	2242
40	0	0	0	0.197	0.48	2063	0.46	2125
50	0	0	0	0.197	0.51	1935	0.49	2008
60	0	0	0	0.197	0.54	1809	0.52	1889
70	0	0	0	0.197	0.59	1683	0.56	1771
80	0	0	0	0.197	0.63	1559	0.6	1652
90	0	0	0	0.197	0.69	1436	0.64	1533
100	0	0	0	0.197	0.75	1315	0.7	1415
110	0	0	0	0.197	0.82	1197	0.76	1298
120	0	0	0	0.197	0.91	1083	0.83	1184
130	0	0	0	0.197	1.01	974	0.92	1072
167	0	0	0	0.197	1.5	655	1.37	721
212	0	0	0	0.197	2.22	443	2.03	486
* Design Condition								


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C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D							
SHEET 170 OF 241		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH815.170
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 2500 LBS											

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	0.627	2.82	2499	2.82	2500*
0	0	0	0	0.197	0.92	2410	0.92	2413
30	0	0	0	0.197	1.09	2035	1.07	2073
40	0	0	0	0.197	1.16	1912	1.13	1959
50	0	0	0	0.197	1.24	1790	1.2	1845
60	0	0	0	0.197	1.33	1671	1.28	1732
70	0	0	0	0.197	1.43	1553	1.37	1619
80	0	0	0	0.197	1.54	1439	1.47	1508
90	0	0	0	0.197	1.67	1329	1.58	1400
100	0	0	0	0.197	1.81	1223	1.71	1294
110	0	0	0	0.197	1.98	1122	1.86	1192
120	0	0	0	0.197	2.16	1028	2.03	1094
130	0	0	0	0.197	2.35	942	2.21	1003
167	0	0	0	0.197	3.18	696	3.01	737
212	0	0	0	0.197	4.16	533	3.95	562

* Design Condition

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<div style="text-align: center;"> <p>SHEET</p> <p>171 OF 241</p> </div>	Indicates Latest Revision	Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH815.171</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING</p> <p>#2 - 3/4 AWAC TENSION 2500 LBS</p> </div>					


Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	0.627	7.84	2500	7.84	2500*
0	0	0	0	0.197	3.3	1866	3.23	1904
30	0	0	0	0.197	3.95	1557	3.82	1611
40	0	0	0	0.197	4.21	1463	4.06	1519
50	0	0	0	0.197	4.48	1374	4.31	1430
60	0	0	0	0.197	4.77	1291	4.57	1346
70	0	0	0	0.197	5.07	1214	4.86	1267
80	0	0	0	0.197	5.39	1142	5.16	1193
90	0	0	0	0.197	5.72	1076	5.48	1124
100	0	0	0	0.197	6.06	1016	5.81	1060
110	0	0	0	0.197	6.41	961	6.15	1002
120	0	0	0	0.197	6.76	912	6.5	948
130	0	0	0	0.197	7.11	867	6.85	900
167	0	0	0	0.197	8.35	738	8.12	759
212	0	0	0	0.197	9.68	637	9.44	653

* Design Condition

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>172 OF 241</p> </div>	Indicates Latest Revision		Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH815.172</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING</p> <p>#2 - 3/4 AWAC TENSION 2500 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
150.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7
200.00	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7
200.00	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-9

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C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 173 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH815.173
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 2500 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5
175.00	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-7
200.00	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9
225.00	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0
250.00	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-1	1-2

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6
175.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-8
200.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10
225.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0
250.00	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 174 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH815.174
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 2500 LBS										

Stringing Sag Table Using Initial Sag							Ruling Span: 300.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6
175.00	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-8
200.00	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10
225.00	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-1
250.00	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-4
275.00	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-7
300.00	1-0	1-1	1-2	1-2	1-3	1-4	1-6	1-7	1-9	1-10
325.00	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-10	2-0	2-2
350.00	1-5	1-5	1-6	1-8	1-9	1-10	2-0	2-2	2-4	2-6
375.00	1-7	1-8	1-9	1-11	2-0	2-2	2-4	2-6	2-8	2-11

Stringing Sag Table Using Final Sag							Ruling Span: 300.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-6
175.00	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8
200.00	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11
225.00	0-7	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1
250.00	0-9	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-4
275.00	0-10	0-11	1-0	1-0	1-1	1-2	1-4	1-5	1-6	1-8
300.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-8	1-10	2-0
325.00	1-2	1-3	1-4	1-5	1-7	1-8	1-10	1-11	2-2	2-4
350.00	1-5	1-6	1-7	1-8	1-10	1-11	2-1	2-3	2-6	2-8
375.00	1-7	1-8	1-10	1-11	2-1	2-3	2-5	2-7	2-10	3-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>175 OF 241</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH815.175
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11
225.00	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-1	1-2
250.00	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-5
275.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-9
300.00	1-2	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-11	2-1
325.00	1-4	1-5	1-6	1-7	1-8	1-10	1-11	2-1	2-3	2-5
350.00	1-6	1-8	1-9	1-10	2-0	2-1	2-3	2-5	2-7	2-9
375.00	1-9	1-10	2-0	2-1	2-3	2-5	2-7	2-9	3-0	3-2
400.00	2-0	2-2	2-3	2-5	2-7	2-9	2-11	3-2	3-5	3-8
425.00	2-3	2-5	2-7	2-9	2-11	3-1	3-4	3-7	3-10	4-1
450.00	2-7	2-8	2-10	3-0	3-3	3-6	3-9	4-0	4-3	4-7
475.00	2-10	3-0	3-2	3-5	3-7	3-10	4-2	4-5	4-9	5-1
500.00	3-2	3-4	3-6	3-9	4-0	4-3	4-7	4-11	5-3	5-8

Stringing Sag Table Using Final Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-6	0-7	0-7	0-7	0-8	0-9	0-9	0-10	0-11	0-11
225.00	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3
250.00	0-10	0-10	0-11	1-0	1-1	1-1	1-2	1-4	1-5	1-6
275.00	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-10
300.00	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-10	2-0	2-2
325.00	1-4	1-5	1-6	1-8	1-9	1-11	2-0	2-2	2-4	2-6
350.00	1-7	1-8	1-9	1-11	2-1	2-2	2-4	2-6	2-9	2-11
375.00	1-10	1-11	2-1	2-2	2-4	2-6	2-8	2-11	3-2	3-4
400.00	2-1	2-2	2-4	2-6	2-8	2-10	3-1	3-4	3-7	3-10
425.00	2-4	2-6	2-8	2-10	3-0	3-3	3-6	3-9	4-0	4-4
450.00	2-7	2-9	2-11	3-2	3-5	3-7	3-11	4-2	4-6	4-10
475.00	2-11	3-1	3-3	3-6	3-9	4-0	4-4	4-8	5-0	5-5
500.00	3-2	3-5	3-8	3-11	4-2	4-6	4-10	5-2	5-7	6-0

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 176 OF 241	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH815.176
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 2500 LBS					

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	0.627	1.06	2948	1.04	3000*
0	0	0	0	0.197	0.32	3095	0.32	3126
30	0	0	0	0.197	0.36	2706	0.35	2791
40	0	0	0	0.197	0.38	2577	0.37	2677
50	0	0	0	0.197	0.4	2448	0.38	2562
60	0	0	0	0.197	0.42	2319	0.4	2445
70	0	0	0	0.197	0.45	2191	0.42	2328
80	0	0	0	0.197	0.48	2063	0.45	2209
90	0	0	0	0.197	0.51	1936	0.47	2090
100	0	0	0	0.197	0.54	1809	0.5	1970
110	0	0	0	0.197	0.59	1684	0.53	1850
120	0	0	0	0.197	0.63	1559	0.57	1729
130	0	0	0	0.197	0.69	1436	0.61	1608
167	0	0	0	0.197	0.97	1015	0.84	1170
212	0	0	0	0.197	1.48	665	1.29	761
* Design Condition								

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D							
SHEET 178 OF 241		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH815.178
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 3000 LBS											

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	0.627	4.2	2986	4.18	3000*
0	0	0	0	0.197	1.4	2814	1.39	2842
30	0	0	0	0.197	1.61	2440	1.57	2511
40	0	0	0	0.197	1.7	2317	1.64	2399
50	0	0	0	0.197	1.79	2195	1.72	2288
60	0	0	0	0.197	1.9	2075	1.81	2176
70	0	0	0	0.197	2.01	1957	1.91	2065
80	0	0	0	0.197	2.14	1841	2.02	1954
90	0	0	0	0.197	2.28	1727	2.14	1843
100	0	0	0	0.197	2.44	1617	2.27	1735
110	0	0	0	0.197	2.61	1510	2.42	1628
120	0	0	0	0.197	2.8	1408	2.59	1524
130	0	0	0	0.197	3.01	1310	2.77	1423
167	0	0	0	0.197	3.93	1003	3.61	1091
212	0	0	0	0.197	5.07	778	4.77	827

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>179 OF 241</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH815.179
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 3000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	0.627	6.53	3000	6.53	3000*
0	0	0	0	0.197	2.36	2605	2.34	2636
30	0	0	0	0.197	2.74	2247	2.66	2314
40	0	0	0	0.197	2.89	2131	2.79	2207
50	0	0	0	0.197	3.05	2017	2.93	2100
60	0	0	0	0.197	3.23	1906	3.09	1995
70	0	0	0	0.197	3.42	1798	3.26	1890
80	0	0	0	0.197	3.64	1694	3.44	1788
90	0	0	0	0.197	3.86	1593	3.65	1689
100	0	0	0	0.197	4.11	1498	3.87	1592
110	0	0	0	0.197	4.38	1407	4.11	1499
120	0	0	0	0.197	4.66	1321	4.37	1409
130	0	0	0	0.197	4.96	1242	4.65	1325
167	0	0	0	0.197	6.17	999	5.82	1059
212	0	0	0	0.197	7.54	818	7.25	850
* Design Condition								

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>180 OF 241</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH815.180</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING</p> <p>#2 - 3/4 AWAC TENSION 3000 LBS</p> </div>				

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5
200.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3
150.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5
200.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-6	0-7

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B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 181 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH815.181
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 3000 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5
200.00	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6
225.00	0-5	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-8	0-8
250.00	0-6	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
150.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
175.00	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5
200.00	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-7	0-7
225.00	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9
250.00	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-10	0-10	0-11

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 182 OF 241	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH815.182
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 3000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
175.00	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5
200.00	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7
225.00	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9
250.00	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-11
275.00	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1
300.00	0-10	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3
325.00	0-11	1-0	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6
350.00	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-6	1-7	1-9
375.00	1-3	1-4	1-4	1-5	1-6	1-7	1-8	1-9	1-10	2-0

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4
175.00	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6
200.00	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7
225.00	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9
250.00	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11	1-0
275.00	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-2
300.00	0-10	0-10	0-11	0-11	1-0	1-1	1-2	1-2	1-3	1-5
325.00	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-7
350.00	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-8	1-9	1-11
375.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-2

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 183 OF 241	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH815.183
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 3000 LBS					

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	0.627	0.91	3441	0.9	3500*
0	0	0	0	0.197	0.27	3618	0.27	3644
30	0	0	0	0.197	0.31	3228	0.3	3323
40	0	0	0	0.197	0.32	3098	0.31	3213
50	0	0	0	0.197	0.33	2969	0.32	3102
60	0	0	0	0.197	0.35	2839	0.33	2989
70	0	0	0	0.197	0.36	2710	0.34	2875
80	0	0	0	0.197	0.38	2580	0.36	2760
90	0	0	0	0.197	0.4	2451	0.37	2644
100	0	0	0	0.197	0.42	2323	0.39	2526
110	0	0	0	0.197	0.45	2194	0.41	2407
120	0	0	0	0.197	0.48	2066	0.43	2288
130	0	0	0	0.197	0.51	1939	0.45	2167
167	0	0	0	0.197	0.67	1476	0.57	1715
212	0	0	0	0.197	0.96	1029	0.84	1172
* Design Condition								

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C						F						
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 186 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH815.186
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 3500 LBS										

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	0.627	5.62	3489	5.6	3500*
0	0	0	0	0.197	1.89	3255	1.87	3290
30	0	0	0	0.197	2.14	2880	2.07	2970
40	0	0	0	0.197	2.23	2757	2.15	2862
50	0	0	0	0.197	2.34	2635	2.24	2753
60	0	0	0	0.197	2.45	2514	2.33	2643
70	0	0	0	0.197	2.57	2394	2.43	2533
80	0	0	0	0.197	2.71	2275	2.54	2423
90	0	0	0	0.197	2.85	2159	2.66	2313
100	0	0	0	0.197	3.01	2045	2.79	2204
110	0	0	0	0.197	3.19	1933	2.94	2095
120	0	0	0	0.197	3.37	1824	3.1	1988
130	0	0	0	0.197	3.58	1719	3.27	1882
167	0	0	0	0.197	4.5	1367	4.07	1512
212	0	0	0	0.197	5.75	1071	5.38	1144
* Design Condition								

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>188 OF 241</p> </div>	Indicates Latest Revision	Completely Revised	<div style="border: 1px solid black; padding: 2px; display: inline-block;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH815.188</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING</p> <p>#2 - 3/4 AWAC TENSION 3500 LBS</p> </div>					

[illegible]

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-0	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4
200.00	0-3	0-4	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
200.00	0-3	0-4	0-4	0-4	0-4	0-4	0-4	0-4	0-5	0-5
225.00	0-4	0-5	0-5	0-5	0-5	0-5	0-5	0-6	0-6	0-6
250.00	0-5	0-6	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5
225.00	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-6	0-7
250.00	0-5	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-8

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 190 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.190
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 3500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5
225.00	0-4	0-5	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-6
250.00	0-6	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8
275.00	0-7	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10
300.00	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-10	0-11	0-11
325.00	0-9	0-10	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-1
350.00	0-11	0-11	1-0	1-0	1-0	1-1	1-2	1-2	1-3	1-4
375.00	1-0	1-1	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-6

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6
225.00	0-5	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7
250.00	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9
275.00	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-11
300.00	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1
325.00	0-10	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-3
350.00	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-4	1-5
375.00	1-1	1-1	1-2	1-2	1-3	1-4	1-5	1-5	1-6	1-8

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>191 OF 241</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH815.191
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 3500 LBS									

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>196 OF 241</div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH815.196	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-5	0-6	0-7	0-8	0-8	0-9	0-10	0-10
100.00	0-7	0-8	0-9	0-11	1-0	1-2	1-3	1-4	1-5	1-6
125.00	0-11	1-1	1-3	1-5	1-7	1-9	1-11	2-1	2-3	2-4
150.00	1-3	1-6	1-9	2-0	2-4	2-7	2-10	3-0	3-2	3-5
175.00	1-9	2-1	2-5	2-9	3-2	3-6	3-10	4-1	4-4	4-7
200.00	2-3	2-8	3-2	3-7	4-1	4-6	5-0	5-4	5-8	6-0

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-10
100.00	0-7	0-8	0-10	0-11	1-1	1-2	1-3	1-4	1-6	1-7
125.00	0-11	1-1	1-3	1-6	1-8	1-10	2-0	2-2	2-4	2-5
150.00	1-4	1-7	1-10	2-1	2-5	2-8	2-10	3-1	3-4	3-6
175.00	1-10	2-2	2-6	2-11	3-3	3-7	3-11	4-2	4-6	4-9
200.00	2-4	2-10	3-3	3-9	4-3	4-8	5-1	5-6	5-10	6-3

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 197 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.197
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-1	1-2	1-2	1-2	1-3	1-3	1-3	1-4	1-4	1-4
125.00	1-9	1-9	1-10	1-10	1-11	1-11	2-0	2-0	2-1	2-1
150.00	2-6	2-6	2-7	2-8	2-9	2-10	2-11	2-11	3-0	3-1
175.00	3-4	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2
200.00	4-5	4-6	4-8	4-9	4-11	5-0	5-1	5-3	5-4	5-5
225.00	5-7	5-9	5-11	6-0	6-2	6-4	6-6	6-7	6-9	6-10
250.00	6-10	7-1	7-3	7-5	7-8	7-10	8-0	8-2	8-4	8-6

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-1	1-2	1-2	1-2	1-3	1-3	1-3	1-4	1-4	1-4
125.00	1-9	1-9	1-10	1-11	1-11	2-0	2-0	2-1	2-1	2-2
150.00	2-6	2-7	2-8	2-8	2-9	2-10	2-11	3-0	3-0	3-1
175.00	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2
200.00	4-5	4-7	4-8	4-10	4-11	5-0	5-2	5-3	5-4	5-6
225.00	5-7	5-9	5-11	6-1	6-3	6-5	6-6	6-8	6-10	6-11
250.00	6-11	7-2	7-4	7-6	7-8	7-11	8-1	8-3	8-5	8-7

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 198 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.198
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-9	2-9	2-9	2-10	2-10	2-10	2-11	2-11	2-11	3-0
175.00	3-9	3-9	3-9	3-10	3-10	3-11	3-11	4-0	4-0	4-1
200.00	4-10	4-11	4-11	5-0	5-1	5-1	5-2	5-3	5-3	5-4
225.00	6-2	6-2	6-3	6-4	6-5	6-6	6-6	6-7	6-8	6-9
250.00	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3	8-3
275.00	9-2	9-3	9-4	9-6	9-7	9-8	9-9	9-10	9-11	10-0
300.00	10-11	11-0	11-2	11-3	11-5	11-6	11-8	11-9	11-10	11-11
325.00	12-10	12-11	13-1	13-3	13-5	13-6	13-8	13-9	13-11	14-0
350.00	14-10	15-0	15-2	15-4	15-6	15-8	15-10	16-0	16-2	16-3
375.00	17-1	17-3	17-5	17-8	17-10	18-0	18-2	18-4	18-6	18-8

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-9	2-9	2-10	2-10	2-10	2-11	2-11	2-11	3-0	3-0
175.00	3-9	3-9	3-10	3-10	3-11	3-11	4-0	4-0	4-0	4-1
200.00	4-10	4-11	5-0	5-0	5-1	5-2	5-2	5-3	5-3	5-4
225.00	6-2	6-3	6-4	6-4	6-5	6-6	6-7	6-7	6-8	6-9
250.00	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3	8-4
275.00	9-3	9-4	9-5	9-6	9-7	9-8	9-10	9-11	10-0	10-1
300.00	11-0	11-1	11-2	11-4	11-5	11-7	11-8	11-9	11-11	12-0
325.00	12-10	13-0	13-2	13-3	13-5	13-7	13-8	13-10	13-11	14-1
350.00	14-11	15-1	15-3	15-5	15-7	15-9	15-11	16-0	16-2	16-4
375.00	17-2	17-4	17-6	17-8	17-11	18-1	18-3	18-5	18-7	18-9

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 199 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.199
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-0	5-1	5-1	5-1	5-2	5-2	5-2	5-3	5-3	5-3
225.00	6-4	6-5	6-5	6-6	6-6	6-6	6-7	6-7	6-8	6-8
250.00	7-10	7-11	7-11	8-0	8-0	8-1	8-1	8-2	8-2	8-3
275.00	9-6	9-7	9-7	9-8	9-9	9-9	9-10	9-10	9-11	10-0
300.00	11-4	11-4	11-5	11-6	11-7	11-8	11-8	11-9	11-10	11-10
325.00	13-3	13-4	13-5	13-6	13-7	13-8	13-9	13-10	13-10	13-11
350.00	15-5	15-6	15-7	15-8	15-9	15-10	15-11	16-0	16-1	16-2
375.00	17-8	17-9	17-10	18-0	18-1	18-2	18-3	18-5	18-6	18-7
400.00	20-1	20-3	20-4	20-6	20-7	20-8	20-10	20-11	21-0	21-2
425.00	22-8	22-10	23-0	23-1	23-3	23-5	23-6	23-8	23-9	23-10
450.00	25-6	25-7	25-9	25-11	26-1	26-3	26-4	26-6	26-8	26-9
475.00	28-5	28-7	28-9	28-11	29-1	29-3	29-5	29-7	29-8	29-10
500.00	31-6	31-8	31-10	32-0	32-3	32-5	32-7	32-9	32-11	33-1

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-0	5-1	5-1	5-1	5-2	5-2	5-2	5-3	5-3	5-3
225.00	6-4	6-5	6-5	6-6	6-6	6-7	6-7	6-7	6-8	6-8
250.00	7-10	7-11	7-11	8-0	8-0	8-1	8-2	8-2	8-3	8-3
275.00	9-6	9-7	9-7	9-8	9-9	9-9	9-10	9-11	9-11	10-0
300.00	11-4	11-5	11-5	11-6	11-7	11-8	11-9	11-9	11-10	11-11
325.00	13-3	13-4	13-5	13-6	13-7	13-8	13-9	13-10	13-11	14-0
350.00	15-5	15-6	15-7	15-8	15-9	15-10	15-11	16-0	16-1	16-2
375.00	17-8	17-10	17-11	18-0	18-1	18-3	18-4	18-5	18-6	18-7
400.00	20-2	20-3	20-5	20-6	20-7	20-9	20-10	21-0	21-1	21-2
425.00	22-9	22-11	23-0	23-2	23-3	23-5	23-7	23-8	23-10	23-11
450.00	25-6	25-8	25-10	26-0	26-1	26-3	26-5	26-7	26-8	26-10
475.00	28-6	28-8	28-10	28-11	29-1	29-3	29-5	29-7	29-9	29-11
500.00	31-7	31-9	31-11	32-1	32-3	32-6	32-8	32-10	33-0	33-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 200 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.200
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 1000 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>202 OF 241</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH815.202
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 1500 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	1.032	13.83	1500	13.83	1500*
0	0	0	0	0.197	11.81	335	11.69	338
30	0	0	0	0.197	12.38	320	12.27	322
40	0	0	0	0.197	12.56	315	12.46	318
50	0	0	0	0.197	12.74	311	12.64	313
60	0	0	0	0.197	12.92	306	12.83	308
70	0	0	0	0.197	13.1	302	13.01	304
80	0	0	0	0.197	13.27	298	13.19	300
90	0	0	0	0.197	13.44	294	13.37	296
100	0	0	0	0.197	13.61	291	13.54	292
110	0	0	0	0.197	13.78	287	13.69	289
120	0	0	0	0.197	13.95	284	13.84	286
130	0	0	0	0.197	14.1	281	13.99	283
167	0	0	0	0.197	14.64	271	14.54	272
212	0	0	0	0.197	15.28	259	15.18	261

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 203 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.203
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	1.032	21.67	1500	21.67	1500*
0	0	0	0	0.197	19.68	315	19.56	317
30	0	0	0	0.197	20.22	306	20.12	308
40	0	0	0	0.197	20.4	304	20.3	305
50	0	0	0	0.197	20.58	301	20.48	303
60	0	0	0	0.197	20.76	299	20.67	300
70	0	0	0	0.197	20.93	296	20.85	297
80	0	0	0	0.197	21.11	294	21.02	295
90	0	0	0	0.197	21.28	291	21.2	292
100	0	0	0	0.197	21.45	289	21.37	290
110	0	0	0	0.197	21.62	287	21.53	288
120	0	0	0	0.197	21.79	285	21.68	286
130	0	0	0	0.197	21.94	283	21.83	284
167	0	0	0	0.197	22.49	276	22.39	277
212	0	0	0	0.197	23.15	268	23.05	269

* Design Condition

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>204 OF 241</p> </div>	Indicates Latest Revision	Completely Revised	<div style="border: 1px solid black; padding: 2px;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH815.204</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING</p> <p>#2 - 3/4 AWAC TENSION 1500 LBS</p> </div>					

Completely Revised



Information Removed

OH815.204

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
#2 - 3/4 AWAC TENSION 1500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5
100.00	0-2	0-3	0-3	0-3	0-4	0-5	0-6	0-7	0-8	0-9
125.00	0-4	0-4	0-5	0-5	0-6	0-7	0-9	0-10	1-0	1-2
150.00	0-5	0-6	0-7	0-8	0-9	0-11	1-1	1-3	1-6	1-9
175.00	0-7	0-8	0-9	0-11	1-0	1-2	1-5	1-8	2-0	2-4
200.00	0-10	0-11	1-0	1-2	1-4	1-7	1-10	2-3	2-8	3-1

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6
100.00	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-10
125.00	0-4	0-4	0-5	0-6	0-7	0-8	0-9	0-11	1-1	1-3
150.00	0-6	0-6	0-7	0-8	0-9	0-11	1-1	1-4	1-7	1-10
175.00	0-8	0-8	0-10	0-11	1-1	1-3	1-6	1-10	2-2	2-6
200.00	0-10	0-11	1-1	1-2	1-5	1-8	2-0	2-5	2-10	3-4

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>205 OF 241</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.205
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-10
125.00	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-4
150.00	1-0	1-1	1-2	1-3	1-5	1-6	1-7	1-8	1-9	1-10
175.00	1-4	1-5	1-7	1-9	1-11	2-0	2-2	2-4	2-5	2-6
200.00	1-9	1-11	2-1	2-3	2-6	2-8	2-10	3-0	3-2	3-4
225.00	2-2	2-5	2-8	2-11	3-1	3-4	3-7	3-10	4-0	4-2
250.00	2-8	3-0	3-3	3-7	3-10	4-2	4-5	4-8	5-0	5-2

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10
125.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-2	1-3	1-4
150.00	1-0	1-1	1-3	1-4	1-5	1-6	1-8	1-9	1-10	1-11
175.00	1-5	1-6	1-8	1-10	1-11	2-1	2-3	2-4	2-6	2-7
200.00	1-10	2-0	2-2	2-4	2-7	2-9	2-11	3-1	3-3	3-5
225.00	2-3	2-6	2-9	3-0	3-3	3-6	3-8	3-11	4-1	4-4
250.00	2-10	3-1	3-5	3-8	4-0	4-3	4-7	4-10	5-1	5-4

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C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 206 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH815.206
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 1500 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-6	1-7	1-7	1-8	1-8	1-9	1-9	1-10	1-10	1-11
175.00	2-0	2-1	2-2	2-3	2-4	2-4	2-5	2-6	2-7	2-7
200.00	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5
225.00	3-4	3-6	3-7	3-8	3-10	3-11	4-0	4-1	4-2	4-3
250.00	4-2	4-3	4-5	4-7	4-8	4-10	4-11	5-1	5-2	5-4
275.00	5-0	5-2	5-4	5-6	5-8	5-10	6-0	6-2	6-3	6-5
300.00	6-0	6-2	6-5	6-7	6-9	6-11	7-2	7-4	7-6	7-8
325.00	7-0	7-3	7-6	7-9	7-11	8-2	8-4	8-7	8-9	8-11
350.00	8-2	8-5	8-8	8-11	9-2	9-5	9-8	9-11	10-2	10-5
375.00	9-4	9-8	10-0	10-3	10-7	10-10	11-2	11-5	11-8	11-11

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-6	1-7	1-7	1-8	1-9	1-9	1-10	1-10	1-11	1-11
175.00	2-1	2-2	2-2	2-3	2-4	2-5	2-5	2-6	2-7	2-7
200.00	2-8	2-10	2-11	3-0	3-1	3-1	3-2	3-3	3-4	3-5
225.00	3-5	3-6	3-8	3-9	3-10	3-11	4-1	4-2	4-3	4-4
250.00	4-3	4-4	4-6	4-8	4-9	4-11	5-0	5-1	5-3	5-4
275.00	5-1	5-3	5-5	5-7	5-9	5-11	6-1	6-2	6-4	6-6
300.00	6-1	6-3	6-6	6-8	6-10	7-0	7-2	7-5	7-7	7-9
325.00	7-2	7-5	7-7	7-10	8-1	8-3	8-6	8-8	8-10	9-1
350.00	8-4	8-7	8-10	9-1	9-4	9-7	9-10	10-1	10-3	10-6
375.00	9-6	9-10	10-2	10-5	10-9	11-0	11-3	11-6	11-10	12-1

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 207 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.207
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-0	3-1	3-1	3-2	3-2	3-3	3-4	3-4	3-5	3-5
225.00	3-10	3-11	3-11	4-0	4-1	4-1	4-2	4-3	4-3	4-4
250.00	4-9	4-9	4-10	4-11	5-0	5-1	5-2	5-3	5-3	5-4
275.00	5-8	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6
300.00	6-9	6-11	7-0	7-1	7-3	7-4	7-5	7-6	7-7	7-8
325.00	8-0	8-1	8-3	8-4	8-6	8-7	8-8	8-10	8-11	9-0
350.00	9-3	9-5	9-6	9-8	9-10	9-11	10-1	10-3	10-4	10-6
375.00	10-7	10-9	10-11	11-1	11-3	11-5	11-7	11-9	11-11	12-0
400.00	12-1	12-3	12-5	12-8	12-10	13-0	13-2	13-4	13-6	13-8
425.00	13-8	13-10	14-1	14-3	14-6	14-8	14-11	15-1	15-3	15-5
450.00	15-4	15-6	15-9	16-0	16-3	16-6	16-8	16-11	17-2	17-4
475.00	17-0	17-4	17-7	17-10	18-1	18-4	18-7	18-10	19-1	19-4
500.00	18-11	19-2	19-6	19-9	20-1	20-4	20-7	20-11	21-2	21-5

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-1	3-1	3-2	3-2	3-3	3-3	3-4	3-4	3-5	3-5
225.00	3-10	3-11	4-0	4-0	4-1	4-2	4-2	4-3	4-4	4-4
250.00	4-9	4-10	4-11	5-0	5-1	5-1	5-2	5-3	5-4	5-5
275.00	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6
300.00	6-10	6-11	7-1	7-2	7-3	7-4	7-6	7-7	7-8	7-9
325.00	8-1	8-2	8-3	8-5	8-6	8-8	8-9	8-10	9-0	9-1
350.00	9-4	9-6	9-7	9-9	9-11	10-0	10-2	10-3	10-5	10-7
375.00	10-9	10-10	11-0	11-2	11-4	11-6	11-8	11-10	12-0	12-1
400.00	12-2	12-5	12-7	12-9	12-11	13-1	13-3	13-5	13-7	13-9
425.00	13-9	14-0	14-2	14-5	14-7	14-9	15-0	15-2	15-4	15-7
450.00	15-5	15-8	15-11	16-2	16-4	16-7	16-10	17-0	17-3	17-5
475.00	17-2	17-6	17-9	18-0	18-3	18-6	18-9	19-0	19-2	19-5
500.00	19-1	19-4	19-8	19-11	20-2	20-6	20-9	21-0	21-3	21-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 208 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.208
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 1500 LBS									

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	5-0	5-1	5-1	5-2	5-2	5-3	5-3	5-4	5-4	5-5
275.00	6-1	6-1	6-2	6-3	6-3	6-4	6-4	6-5	6-6	6-6
300.00	7-2	7-3	7-4	7-5	7-6	7-6	7-7	7-8	7-9	7-9
325.00	8-5	8-6	8-7	8-8	8-9	8-10	8-11	9-0	9-1	9-1
350.00	9-10	9-11	10-0	10-1	10-2	10-3	10-4	10-5	10-6	10-7
375.00	11-3	11-4	11-6	11-7	11-8	11-9	11-10	11-11	12-1	12-2
400.00	12-10	12-11	13-1	13-2	13-3	13-5	13-6	13-7	13-9	13-10
425.00	14-6	14-7	14-9	14-10	15-0	15-1	15-3	15-4	15-6	15-7
450.00	16-3	16-4	16-6	16-8	16-10	16-11	17-1	17-3	17-4	17-6
475.00	18-1	18-3	18-5	18-7	18-9	18-11	19-1	19-2	19-4	19-6
500.00	20-1	20-3	20-5	20-7	20-9	20-11	21-1	21-3	21-5	21-7
525.00	22-1	22-4	22-6	22-8	22-11	23-1	23-3	23-6	23-8	23-10
550.00	24-3	24-6	24-8	24-11	25-2	25-4	25-7	25-9	26-0	26-2
575.00	26-6	26-9	27-0	27-3	27-6	27-8	27-11	28-2	28-5	28-7
600.00	28-11	29-2	29-5	29-8	29-11	30-2	30-5	30-8	30-11	31-2
625.00	31-4	31-8	31-11	32-2	32-6	32-9	33-0	33-3	33-7	33-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>209 OF 241</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH815.209
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 1500 LBS									

Span =		200		ft				
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	1.032	2.58	2000	2.58	2000*
0	0	0	0	0.197	0.63	1568	0.62	1593
30	0	0	0	0.197	0.82	1206	0.79	1251
40	0	0	0	0.197	0.9	1091	0.86	1140
50	0	0	0	0.197	1	982	0.95	1033
60	0	0	0	0.197	1.12	879	1.06	930
70	0	0	0	0.197	1.26	784	1.18	833
80	0	0	0	0.197	1.41	698	1.32	744
90	0	0	0	0.197	1.58	623	1.48	664
100	0	0	0	0.197	1.76	560	1.66	595
110	0	0	0	0.197	1.95	506	1.84	535
120	0	0	0	0.197	2.14	461	2.03	485
130	0	0	0	0.197	2.33	424	2.2	448
167	0	0	0	0.197	2.92	338	2.79	354
212	0	0	0	0.197	3.57	276	3.45	286
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>210 OF 241</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH815.210
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2
100.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4
125.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6
150.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-8	0-9
175.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	1-0
200.00	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-4

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2
100.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4
125.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-7
150.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-10
175.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1
200.00	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-1	1-3	1-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 213 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.213
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6
125.00	0-3	0-4	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-9
150.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0
175.00	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-5
200.00	0-9	0-9	0-10	0-11	1-1	1-2	1-4	1-6	1-8	1-10
225.00	0-11	1-0	1-1	1-2	1-4	1-6	1-8	1-11	2-1	2-4
250.00	1-2	1-3	1-4	1-6	1-8	1-10	2-1	2-4	2-7	2-11

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6
125.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-9
150.00	0-5	0-6	0-6	0-7	0-8	0-8	0-10	0-11	1-0	1-1
175.00	0-7	0-8	0-8	0-9	0-10	1-0	1-1	1-3	1-4	1-6
200.00	0-9	0-10	0-11	1-0	1-1	1-3	1-5	1-7	1-9	1-11
225.00	0-11	1-0	1-2	1-3	1-5	1-7	1-9	2-0	2-3	2-6
250.00	1-2	1-3	1-5	1-7	1-9	2-0	2-2	2-6	2-9	3-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 214 OF 241	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH815.214
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3
175.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
200.00	1-3	1-4	1-5	1-7	1-8	1-9	1-11	2-0	2-1	2-2
225.00	1-7	1-8	1-10	2-0	2-1	2-3	2-5	2-6	2-8	2-9
250.00	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-1	3-3	3-5
275.00	2-4	2-6	2-9	2-11	3-2	3-4	3-7	3-9	4-0	4-2
300.00	2-9	3-0	3-3	3-6	3-9	4-0	4-3	4-6	4-9	4-11
325.00	3-3	3-6	3-10	4-1	4-5	4-8	5-0	5-3	5-7	5-10
350.00	3-9	4-1	4-5	4-9	5-1	5-5	5-9	6-1	6-5	6-9
375.00	4-4	4-9	5-1	5-6	5-10	6-3	6-8	7-0	7-5	7-9

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-3
175.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
200.00	1-4	1-5	1-6	1-8	1-9	1-10	1-11	2-1	2-2	2-3
225.00	1-8	1-9	1-11	2-1	2-2	2-4	2-6	2-7	2-9	2-10
250.00	2-0	2-2	2-4	2-7	2-9	2-11	3-1	3-3	3-5	3-6
275.00	2-5	2-8	2-10	3-1	3-3	3-6	3-8	3-11	4-1	4-3
300.00	2-11	3-2	3-5	3-8	3-11	4-2	4-5	4-8	4-10	5-1
325.00	3-5	3-9	4-0	4-4	4-7	4-11	5-2	5-5	5-9	6-0
350.00	4-0	4-4	4-8	5-0	5-4	5-8	6-0	6-4	6-7	6-11
375.00	4-7	4-11	5-4	5-9	6-1	6-6	6-10	7-3	7-7	7-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 215 OF 241	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH815.215
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-9	1-10	1-11	2-0	2-1	2-1	2-2	2-3	2-4	2-4
225.00	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0
250.00	2-10	2-11	3-0	3-1	3-3	3-4	3-5	3-6	3-7	3-8
275.00	3-5	3-6	3-8	3-9	3-11	4-0	4-2	4-3	4-4	4-6
300.00	4-0	4-2	4-4	4-6	4-8	4-9	4-11	5-1	5-2	5-4
325.00	4-9	4-11	5-1	5-3	5-5	5-7	5-9	5-11	6-1	6-3
350.00	5-6	5-8	5-11	6-1	6-4	6-6	6-8	6-11	7-1	7-3
375.00	6-3	6-6	6-9	7-0	7-3	7-5	7-8	7-11	8-1	8-4
400.00	7-2	7-5	7-8	8-0	8-3	8-6	8-9	9-0	9-3	9-6
425.00	8-1	8-5	8-8	9-0	9-3	9-7	9-10	10-2	10-5	10-8
450.00	9-1	9-5	9-9	10-1	10-5	10-9	11-1	11-4	11-8	12-0
475.00	10-1	10-6	10-10	11-3	11-7	12-0	12-4	12-8	13-0	13-4
500.00	11-2	11-7	12-0	12-5	12-10	13-3	13-8	14-0	14-5	14-9

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-10	1-11	2-0	2-0	2-1	2-2	2-3	2-3	2-4	2-5
225.00	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-0
250.00	2-10	3-0	3-1	3-2	3-3	3-5	3-6	3-7	3-8	3-9
275.00	3-6	3-7	3-9	3-10	4-0	4-1	4-2	4-4	4-5	4-6
300.00	4-2	4-3	4-5	4-7	4-9	4-10	5-0	5-2	5-3	5-5
325.00	4-10	5-0	5-2	5-5	5-7	5-9	5-10	6-0	6-2	6-4
350.00	5-8	5-10	6-0	6-3	6-5	6-7	6-10	7-0	7-2	7-4
375.00	6-6	6-8	6-11	7-2	7-5	7-7	7-10	8-0	8-3	8-5
400.00	7-4	7-8	7-11	8-2	8-5	8-8	8-11	9-2	9-4	9-7
425.00	8-4	8-7	8-11	9-2	9-6	9-9	10-1	10-4	10-7	10-10
450.00	9-4	9-8	10-0	10-4	10-8	10-11	11-3	11-7	11-10	12-2
475.00	10-5	10-9	11-2	11-6	11-10	12-2	12-7	12-11	13-3	13-7
500.00	11-6	11-11	12-4	12-9	13-2	13-6	13-11	14-3	14-8	15-0

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 216 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.216
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 2000 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>218 OF 241</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH815.218	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 2500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	1.032	12.94	2500	12.94	2500*
0	0	0	0	0.197	7.56	815	7.24	851
30	0	0	0	0.197	8.6	717	8.27	745
40	0	0	0	0.197	8.93	690	8.61	716
50	0	0	0	0.197	9.26	666	8.95	689
60	0	0	0	0.197	9.59	643	9.28	664
70	0	0	0	0.197	9.91	622	9.61	642
80	0	0	0	0.197	10.22	603	9.93	621
90	0	0	0	0.197	10.53	586	10.25	602
100	0	0	0	0.197	10.83	569	10.56	584
110	0	0	0	0.197	11.13	554	10.87	568
120	0	0	0	0.197	11.42	540	11.17	552
130	0	0	0	0.197	11.7	527	11.47	538
167	0	0	0	0.197	12.63	489	12.4	498
212	0	0	0	0.197	13.69	451	13.47	458

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 220 OF 241	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH815.220
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 2500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4
150.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7
200.00	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-4
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6
175.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-8
200.00	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 221 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.221
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4
150.00	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6
175.00	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9
200.00	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11
225.00	0-7	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2
250.00	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-3	1-4	1-6

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
125.00	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5
150.00	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7
175.00	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9
200.00	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0
225.00	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-1	1-2	1-3
250.00	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>222 OF 241</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH815.222
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9
175.00	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0
200.00	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3
225.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7
250.00	1-0	1-0	1-1	1-2	1-4	1-5	1-7	1-8	1-10	2-0
275.00	1-2	1-3	1-4	1-5	1-7	1-9	1-10	2-0	2-3	2-5
300.00	1-5	1-6	1-7	1-9	1-10	2-0	2-3	2-5	2-8	2-10
325.00	1-7	1-9	1-11	2-0	2-2	2-5	2-7	2-10	3-1	3-4
350.00	1-11	2-0	2-2	2-4	2-7	2-9	3-0	3-4	3-7	3-11
375.00	2-2	2-4	2-6	2-8	2-11	3-2	3-6	3-9	4-1	4-6

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-4	0-5	0-5	0-5	0-6	0-7	0-7	0-8	0-8	0-9
175.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1
200.00	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
225.00	0-10	0-10	0-11	1-0	1-1	1-3	1-4	1-6	1-7	1-9
250.00	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-10	2-0	2-2
275.00	1-3	1-4	1-5	1-6	1-8	1-10	2-0	2-2	2-5	2-7
300.00	1-5	1-7	1-8	1-10	2-0	2-2	2-5	2-7	2-10	3-1
325.00	1-8	1-10	2-0	2-2	2-4	2-7	2-10	3-1	3-4	3-7
350.00	2-0	2-1	2-4	2-6	2-9	3-0	3-3	3-6	3-10	4-2
375.00	2-3	2-5	2-8	2-10	3-1	3-5	3-9	4-1	4-5	4-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>223 OF 241</h2> </div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH815.223	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 2500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-7
225.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-10	1-11	2-0
250.00	1-5	1-6	1-8	1-9	1-10	2-0	2-1	2-3	2-4	2-5
275.00	1-9	1-10	2-0	2-1	2-3	2-5	2-6	2-8	2-10	3-0
300.00	2-1	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6
325.00	2-5	2-7	2-9	2-11	3-2	3-4	3-6	3-9	3-11	4-2
350.00	2-10	3-0	3-2	3-5	3-8	3-11	4-1	4-4	4-7	4-10
375.00	3-2	3-5	3-8	3-11	4-2	4-5	4-9	5-0	5-3	5-6
400.00	3-8	3-11	4-2	4-6	4-9	5-1	5-4	5-8	6-0	6-3
425.00	4-1	4-5	4-9	5-1	5-5	5-9	6-1	6-5	6-9	7-1
450.00	4-7	4-11	5-4	5-8	6-0	6-5	6-9	7-2	7-7	7-11
475.00	5-2	5-6	5-11	6-4	6-9	7-2	7-7	8-0	8-5	8-10
500.00	5-8	6-1	6-6	7-0	7-5	7-11	8-5	8-10	9-4	9-9

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
225.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-1
250.00	1-6	1-7	1-9	1-10	2-0	2-1	2-2	2-4	2-5	2-7
275.00	1-10	1-11	2-1	2-3	2-5	2-6	2-8	2-10	2-11	3-1
300.00	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8
325.00	2-7	2-9	2-11	3-1	3-4	3-6	3-9	3-11	4-1	4-4
350.00	2-11	3-2	3-5	3-7	3-10	4-1	4-4	4-6	4-9	5-0
375.00	3-5	3-8	3-11	4-2	4-5	4-8	4-11	5-3	5-6	5-9
400.00	3-10	4-2	4-5	4-9	5-0	5-4	5-8	5-11	6-3	6-6
425.00	4-4	4-8	5-0	5-4	5-8	6-0	6-4	6-8	7-0	7-4
450.00	4-11	5-3	5-7	6-0	6-4	6-9	7-2	7-6	7-11	8-3
475.00	5-5	5-10	6-3	6-8	7-1	7-6	7-11	8-4	8-9	9-2
500.00	6-0	6-6	6-11	7-5	7-10	8-4	8-10	9-3	9-9	10-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 224 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.224
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 2500 LBS									

* Design Condition

* Design Condition

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 226 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.226
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 3000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	1.032	10.77	3000	10.77	3000*
0	0	0	0	0.197	4.09	1505	3.86	1596
30	0	0	0	0.197	4.94	1248	4.61	1336
40	0	0	0	0.197	5.25	1173	4.9	1258
50	0	0	0	0.197	5.57	1105	5.2	1185
60	0	0	0	0.197	5.91	1042	5.51	1117
70	0	0	0	0.197	6.25	985	5.84	1054
80	0	0	0	0.197	6.6	934	6.18	997
90	0	0	0	0.197	6.95	887	6.53	944
100	0	0	0	0.197	7.3	844	6.87	896
110	0	0	0	0.197	7.65	806	7.23	853
120	0	0	0	0.197	7.99	771	7.58	813
130	0	0	0	0.197	8.34	739	7.93	777
167	0	0	0	0.197	9.44	653	9.13	675
212	0	0	0	0.197	10.71	576	10.4	593

* Design Condition

* Design Condition

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 228 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.228
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 3000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5
200.00	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
150.00	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
175.00	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5
200.00	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 229 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH815.229
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 3000 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
150.00	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4
175.00	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5
200.00	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7
225.00	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9
250.00	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2
125.00	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
150.00	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4
175.00	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6
200.00	0-4	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8
225.00	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-10
250.00	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> SHEET 230 OF 241 </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH815.230
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 3000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5
175.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7
200.00	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9
225.00	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-10	0-10	0-11
250.00	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-1	1-2
275.00	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-4
300.00	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-8
325.00	1-1	1-2	1-3	1-3	1-4	1-5	1-7	1-8	1-9	1-11
350.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-1	2-3
375.00	1-6	1-6	1-7	1-8	1-10	1-11	2-1	2-2	2-4	2-7

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-5
175.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7
200.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10
225.00	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11	1-0
250.00	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-3
275.00	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-5	1-6
300.00	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-8	1-9
325.00	1-2	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-11	2-1
350.00	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-1	2-3	2-5
375.00	1-6	1-7	1-8	1-9	1-11	2-1	2-2	2-4	2-7	2-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 231 OF 241	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH815.231
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 3000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-10	0-10	0-11
225.00	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-0	1-1	1-2
250.00	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-6
275.00	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-8	1-9
300.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-10	2-0	2-1
325.00	1-4	1-5	1-6	1-8	1-9	1-10	2-0	2-2	2-4	2-6
350.00	1-7	1-8	1-9	1-11	2-0	2-2	2-4	2-6	2-8	2-10
375.00	1-10	1-11	2-0	2-2	2-4	2-6	2-8	2-10	3-1	3-4
400.00	2-1	2-2	2-4	2-6	2-8	2-10	3-0	3-3	3-6	3-9
425.00	2-4	2-6	2-7	2-10	3-0	3-2	3-5	3-8	3-11	4-3
450.00	2-7	2-9	2-11	3-2	3-4	3-7	3-10	4-1	4-5	4-9
475.00	2-11	3-1	3-3	3-6	3-9	4-0	4-3	4-7	4-11	5-3
500.00	3-3	3-5	3-8	3-10	4-2	4-5	4-9	5-1	5-6	5-10

Stringing Sag Table Using Final Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-7	0-7	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0
225.00	0-8	0-9	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-3
250.00	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-5	1-6	1-7
275.00	1-0	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-10	1-11
300.00	1-3	1-4	1-5	1-6	1-7	1-9	1-10	2-0	2-2	2-3
325.00	1-5	1-6	1-8	1-9	1-10	2-0	2-2	2-4	2-6	2-8
350.00	1-8	1-9	1-11	2-0	2-2	2-4	2-6	2-8	2-11	3-1
375.00	1-11	2-0	2-2	2-4	2-6	2-8	2-11	3-1	3-4	3-7
400.00	2-2	2-4	2-6	2-8	2-10	3-1	3-3	3-6	3-10	4-1
425.00	2-5	2-7	2-9	3-0	3-2	3-5	3-8	4-0	4-3	4-7
450.00	2-9	2-11	3-2	3-4	3-7	3-10	4-2	4-6	4-10	5-2
475.00	3-1	3-3	3-6	3-9	4-0	4-4	4-8	5-0	5-4	5-9
500.00	3-5	3-7	3-10	4-2	4-5	4-9	5-2	5-6	5-11	6-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 232 OF 241	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH815.232
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 3000 LBS					

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 234 OF 241		Indicates Latest Revision			Completely Revised		X	New Page		Information Removed		OH815.234
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 3500 LBS										

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	1.032	9.23	3500	9.23	3500*
0	0	0	0	0.197	2.59	2374	2.48	2485
30	0	0	0	0.197	3.04	2026	2.84	2164
40	0	0	0	0.197	3.22	1915	2.99	2059
50	0	0	0	0.197	3.41	1806	3.15	1954
60	0	0	0	0.197	3.62	1702	3.33	1851
70	0	0	0	0.197	3.85	1601	3.52	1750
80	0	0	0	0.197	4.09	1505	3.73	1652
90	0	0	0	0.197	4.36	1414	3.96	1557
100	0	0	0	0.197	4.64	1328	4.2	1466
110	0	0	0	0.197	4.94	1248	4.47	1378
120	0	0	0	0.197	5.25	1173	4.75	1296
130	0	0	0	0.197	5.57	1105	5.05	1219
167	0	0	0	0.197	6.72	916	6.28	980
212	0	0	0	0.197	8.1	761	7.7	801

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>236 OF 241</p> </div>	Indicates Latest Revision	Completely Revised	<div style="border: 1px solid black; padding: 2px;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH815.236</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING</p> <p>#2 - 3/4 AWAC TENSION 3500 LBS</p> </div>					

[illegible]

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-0	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 237 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.237
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 3500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5
225.00	0-5	0-5	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7
250.00	0-6	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
125.00	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
150.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6
225.00	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-6	0-7	0-7
250.00	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-8	0-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>238 OF 241</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.238
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 3500 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3
175.00	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4
200.00	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6
225.00	0-5	0-5	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-7
250.00	0-6	0-6	0-7	0-7	0-7	0-7	0-8	0-8	0-9	0-9
275.00	0-7	0-8	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-11
300.00	0-9	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1
325.00	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-3	1-3
350.00	1-0	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-6
375.00	1-2	1-2	1-3	1-3	1-4	1-5	1-6	1-6	1-7	1-9

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4
175.00	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5
200.00	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6
225.00	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8
250.00	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10
275.00	0-8	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0
300.00	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-2	1-2
325.00	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-5
350.00	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-8
375.00	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 239 OF 241	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH815.239
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 3500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7
225.00	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9
250.00	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11
275.00	0-8	0-9	0-9	0-9	0-10	0-10	0-11	1-0	1-0	1-1
300.00	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-3	1-4
325.00	1-0	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-6
350.00	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-8	1-9
375.00	1-3	1-4	1-5	1-6	1-6	1-7	1-8	1-10	1-11	2-0
400.00	1-6	1-6	1-7	1-8	1-9	1-10	1-11	2-1	2-2	2-4
425.00	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-4	2-5	2-7
450.00	1-10	1-11	2-0	2-1	2-3	2-4	2-5	2-7	2-9	2-11
475.00	2-1	2-2	2-3	2-4	2-6	2-7	2-9	2-11	3-1	3-3
500.00	2-3	2-5	2-6	2-7	2-9	2-10	3-0	3-2	3-5	3-7

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8
225.00	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10
250.00	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0
275.00	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-2	1-3
300.00	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-5
325.00	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
350.00	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-9	1-10	2-0
375.00	1-4	1-5	1-6	1-7	1-8	1-9	1-10	2-0	2-1	2-3
400.00	1-6	1-7	1-8	1-9	1-10	2-0	2-1	2-3	2-5	2-7
425.00	1-9	1-10	1-11	2-0	2-1	2-3	2-4	2-6	2-8	2-11
450.00	1-11	2-0	2-1	2-3	2-4	2-6	2-8	2-10	3-0	3-3
475.00	2-2	2-3	2-4	2-6	2-8	2-9	3-0	3-2	3-4	3-7
500.00	2-4	2-6	2-7	2-9	2-11	3-1	3-3	3-6	3-9	4-0

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 240 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.240
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 3500 LBS									

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	0-9	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-3
275.00	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-6
300.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
325.00	1-3	1-3	1-4	1-5	1-6	1-7	1-9	1-10	2-0	2-1
350.00	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-2	2-3	2-5
375.00	1-7	1-9	1-10	1-11	2-0	2-2	2-4	2-5	2-7	2-9
400.00	1-10	1-11	2-1	2-2	2-4	2-6	2-7	2-9	3-0	3-2
425.00	2-1	2-2	2-4	2-6	2-7	2-9	2-11	3-2	3-4	3-7
450.00	2-4	2-6	2-7	2-9	2-11	3-1	3-4	3-6	3-9	4-0
475.00	2-7	2-9	2-11	3-1	3-3	3-6	3-8	3-11	4-2	4-5
500.00	2-11	3-0	3-3	3-5	3-7	3-10	4-1	4-4	4-8	4-11
525.00	3-2	3-4	3-7	3-9	4-0	4-3	4-6	4-10	5-1	5-5
550.00	3-6	3-8	3-11	4-1	4-5	4-8	4-11	5-3	5-7	6-0
575.00	3-10	4-0	4-3	4-6	4-9	5-1	5-5	5-9	6-2	6-6
600.00	4-2	4-5	4-8	4-11	5-3	5-6	5-11	6-3	6-8	7-1
625.00	4-6	4-9	5-0	5-4	5-8	6-0	6-5	6-10	7-3	7-9

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 241 OF 241		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH815.241
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING #2 - 3/4 AWAC TENSION 3500 LBS									

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH		D					
SHEET 1 OF 21		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH816.1	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		#6 3-STRAND BARE COPPER TABLE OF CONTENTS									

Span = 100 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.157	0.50	390	0.50	390*
25	0	0	0	0.083	0.28	365	0.28	368
30	0	0	0	0.083	0.30	341	0.30	347
40	0	0	0	0.083	0.35	295	0.34	306
50	0	0	0	0.083	0.41	251	0.39	266
60	0	0	0	0.083	0.49	211	0.45	229
70	0	0	0	0.083	0.59	176	0.53	195
80	0	0	0	0.083	0.70	147	0.63	164
90	0	0	0	0.083	0.83	124	0.74	140
100	0	0	0	0.083	0.96	107	0.86	120
110	0	0	0	0.083	1.09	95	0.98	105
120	0	0	0	0.083	1.21	85	1.11	93
130	0	0	0	0.083	1.33	77	1.23	84
167	0	0	0	0.083	1.72	60	1.63	63
212	0	0	0	0.083	2.11	49	2.03	51
* Design Condition								

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.157	2.02	390	2.02	390*
25	0	0	0	0.083	1.34	308	1.31	316
30	0	0	0	0.083	1.42	291	1.38	300
40	0	0	0	0.083	1.59	259	1.53	270
50	0	0	0	0.083	1.78	232	1.70	243
60	0	0	0	0.083	1.98	208	1.88	219
70	0	0	0	0.083	2.19	188	2.08	199
80	0	0	0	0.083	2.40	172	2.27	181
90	0	0	0	0.083	2.60	159	2.47	167
100	0	0	0	0.083	2.81	147	2.67	155
110	0	0	0	0.083	3.00	138	2.86	144
120	0	0	0	0.083	3.19	129	3.05	135
130	0	0	0	0.083	3.38	122	3.24	127
167	0	0	0	0.083	4.01	103	3.88	107
212	0	0	0	0.083	4.69	88	4.57	90
* Design Condition								

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 2 OF 21	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH816.2
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING #6 3-STRAND BARE COPPER TENSION 390 LBS					

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.157	4.54	390	4.54	390*
25	0	0	0	0.083	3.55	262	3.45	269
30	0	0	0	0.083	3.68	252	3.58	259
40	0	0	0	0.083	3.96	235	3.84	242
50	0	0	0	0.083	4.23	220	4.10	226
60	0	0	0	0.083	4.50	207	4.36	213
70	0	0	0	0.083	4.76	195	4.62	201
80	0	0	0	0.083	5.02	185	4.88	191
90	0	0	0	0.083	5.28	176	5.13	181
100	0	0	0	0.083	5.52	168	5.37	173
110	0	0	0	0.083	5.77	161	5.61	166
120	0	0	0	0.083	6.00	155	5.85	159
130	0	0	0	0.083	6.23	149	6.08	153
167	0	0	0	0.083	7.04	132	6.89	135
212	0	0	0	0.083	7.93	117	7.78	120

* Design Condition

[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-6	0-7
100.00	0-3	0-4	0-4	0-5	0-5	0-6	0-8	0-9	0-10	1-0
125.00	0-5	0-6	0-6	0-7	0-8	0-10	1-0	1-2	1-4	1-6
150.00	0-7	0-8	0-9	0-10	1-0	1-2	1-5	1-8	1-11	2-3
175.00	0-10	0-11	1-0	1-2	1-5	1-7	1-11	2-3	2-8	3-0
200.00	1-1	1-2	1-4	1-7	1-10	2-1	2-6	2-11	3-5	3-11

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6	0-6	0-7
100.00	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-10	1-0	1-1
125.00	0-5	0-6	0-7	0-8	0-9	0-11	1-1	1-4	1-6	1-8
150.00	0-7	0-8	0-9	0-11	1-1	1-4	1-7	1-10	2-2	2-5
175.00	0-10	0-11	1-1	1-3	1-6	1-10	2-2	2-7	2-11	3-4
200.00	1-1	1-3	1-5	1-8	1-11	2-4	2-10	3-4	3-10	4-4

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 4 OF 21		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH816.4
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING #6 3-STRAND BARE COPPER TENSION 390 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9
125.00	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-1
150.00	0-8	0-9	0-10	0-11	1-1	1-2	1-3	1-5	1-6	1-7
175.00	0-11	1-1	1-2	1-4	1-5	1-7	1-9	1-11	2-1	2-2
200.00	1-3	1-5	1-6	1-8	1-11	2-1	2-3	2-6	2-8	2-10
225.00	1-7	1-9	1-11	2-2	2-5	2-8	2-11	3-2	3-5	3-8
250.00	1-11	2-2	2-5	2-8	2-11	3-3	3-7	3-10	4-2	4-6

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-8	0-9
125.00	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2
150.00	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-6	1-7	1-8
175.00	1-0	1-1	1-3	1-4	1-6	1-8	1-10	2-0	2-2	2-4
200.00	1-3	1-5	1-7	1-9	2-0	2-2	2-5	2-7	2-10	3-0
225.00	1-7	1-10	2-0	2-3	2-6	2-9	3-0	3-4	3-7	3-10
250.00	2-0	2-3	2-6	2-9	3-1	3-5	3-9	4-1	4-5	4-8

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 5 OF 21	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH816.5
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING #6 3-STRAND BARE COPPER TENSION 390 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-3	1-4	1-5
175.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11
200.00	1-6	1-7	1-8	1-10	1-11	2-1	2-2	2-3	2-5	2-6
225.00	1-10	2-0	2-2	2-4	2-5	2-7	2-9	2-11	3-0	3-2
250.00	2-4	2-6	2-8	2-10	3-0	3-3	3-5	3-7	3-9	3-11
275.00	2-10	3-0	3-3	3-5	3-8	3-11	4-1	4-4	4-6	4-9
300.00	3-4	3-7	3-10	4-1	4-4	4-7	4-11	5-2	5-4	5-7
325.00	3-11	4-2	4-6	4-10	5-1	5-5	5-9	6-0	6-4	6-7
350.00	4-6	4-11	5-3	5-7	5-11	6-3	6-8	7-0	7-4	7-8
375.00	5-2	5-7	6-0	6-5	6-10	7-3	7-7	8-0	8-5	8-9

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-5
175.00	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-10	1-11	2-0
200.00	1-6	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-5	2-7
225.00	1-11	2-1	2-3	2-5	2-6	2-8	2-10	3-0	3-1	3-3
250.00	2-4	2-7	2-9	2-11	3-1	3-4	3-6	3-8	3-10	4-0
275.00	2-10	3-1	3-4	3-7	3-9	4-0	4-3	4-5	4-8	4-10
300.00	3-5	3-8	3-11	4-3	4-6	4-9	5-0	5-3	5-6	5-9
325.00	4-0	4-4	4-8	5-0	5-3	5-7	5-11	6-2	6-6	6-9
350.00	4-8	5-0	5-5	5-9	6-1	6-6	6-10	7-2	7-6	7-10
375.00	5-4	5-9	6-2	6-7	7-0	7-5	7-10	8-3	8-8	9-0

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 6 OF 21	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH816.6
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING #6 3-STRAND BARE COPPER TENSION 390 LBS					

Span = 100 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.199	0.64	390	0.64	390*
20	0	0	0	0.083	0.22	477	0.22	477
30	0	0	0	0.083	0.24	434	0.24	434
40	0	0	0	0.083	0.26	392	0.26	392
50	0	0	0	0.083	0.30	345	0.29	350
60	0	0	0	0.083	0.35	298	0.33	309
70	0	0	0	0.083	0.41	254	0.38	269
80	0	0	0	0.083	0.48	214	0.45	231
90	0	0	0	0.083	0.58	178	0.52	197
100	0	0	0	0.083	0.70	148	0.62	166
110	0	0	0	0.083	0.82	125	0.73	141
120	0	0	0	0.083	0.95	108	0.85	121
130	0	0	0	0.083	1.08	95	0.98	106
167	0	0	0	0.083	1.51	68	1.41	73
212	0	0	0	0.083	1.94	53	1.85	56
* Design Condition								

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.199	2.55	390	2.55	390*
20	0	0	0	0.083	1.16	356	1.15	360
30	0	0	0	0.083	1.30	318	1.27	325
40	0	0	0	0.083	1.46	283	1.41	293
50	0	0	0	0.083	1.63	253	1.57	263
60	0	0	0	0.083	1.83	226	1.74	237
70	0	0	0	0.083	2.03	203	1.93	214
80	0	0	0	0.083	2.24	185	2.12	195
90	0	0	0	0.083	2.44	169	2.32	178
100	0	0	0	0.083	2.65	156	2.52	164
110	0	0	0	0.083	2.85	145	2.71	152
120	0	0	0	0.083	3.05	136	2.91	142
130	0	0	0	0.083	3.24	128	3.10	133
167	0	0	0	0.083	3.89	106	3.75	110
212	0	0	0	0.083	4.58	90	4.46	93
* Design Condition								

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 7 OF 21	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH816.7
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING #6 3-STRAND BARE COPPER TENSION 390 LBS					

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.199	5.74	390	5.74	390*
20	0	0	0	0.083	3.79	245	3.68	252
30	0	0	0	0.083	4.06	229	3.94	236
40	0	0	0	0.083	4.33	214	4.20	221
50	0	0	0	0.083	4.60	202	4.46	208
60	0	0	0	0.083	4.86	191	4.72	197
70	0	0	0	0.083	5.12	181	4.97	187
80	0	0	0	0.083	5.37	173	5.22	178
90	0	0	0	0.083	5.62	165	5.47	170
100	0	0	0	0.083	5.86	159	5.70	163
110	0	0	0	0.083	6.09	153	5.94	157
120	0	0	0	0.083	6.32	147	6.17	151
130	0	0	0	0.083	6.54	142	6.39	146
167	0	0	0	0.083	7.32	127	7.17	130
212	0	0	0	0.083	8.19	114	8.04	116

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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SHEET 8 OF 21	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH816.8
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 300' RULING SPAN 65MPH LIGHT LOADING #6 3-STRAND BARE COPPER TENSION 390 LBS					

SHEET 8 OF 21	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH816.8
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 300' RULING SPAN 65MPH LIGHT LOADING #6 3-STRAND BARE COPPER TENSION 390 LBS					

SHEET 8 OF 21	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH816.8
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 300' RULING SPAN 65MPH LIGHT LOADING #6 3-STRAND BARE COPPER TENSION 390 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-9
125.00	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-10	1-0	1-2
150.00	0-6	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-5	1-8
175.00	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-7	1-11	2-3
200.00	0-10	0-11	1-1	1-2	1-4	1-6	1-9	2-1	2-6	2-11

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-6
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-10
125.00	0-4	0-4	0-5	0-6	0-6	0-8	0-9	0-11	1-1	1-3
150.00	0-6	0-6	0-7	0-8	0-9	0-11	1-1	1-4	1-7	1-10
175.00	0-8	0-9	0-10	0-11	1-1	1-3	1-6	1-9	2-2	2-6
200.00	0-10	0-11	1-1	1-2	1-5	1-7	1-11	2-4	2-9	3-3

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SHEET 9 OF 21	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH816.9
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING #6 3-STRAND BARE COPPER TENSION 390 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-8
125.00	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1
150.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-6
175.00	0-11	1-0	1-1	1-2	1-4	1-6	1-7	1-9	1-11	2-1
200.00	1-2	1-3	1-5	1-7	1-9	1-11	2-1	2-4	2-6	2-9
225.00	1-5	1-7	1-9	2-0	2-2	2-5	2-8	2-11	3-2	3-5
250.00	1-9	2-0	2-2	2-5	2-9	3-0	3-4	3-7	3-11	4-3

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SHEET 10 OF 21	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH816.10
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING #6 3-STRAND BARE COPPER TENSION 390 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-4	1-5	1-6
175.00	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0
200.00	1-8	1-9	1-10	2-0	2-1	2-3	2-4	2-5	2-6	2-8
225.00	2-1	2-3	2-4	2-6	2-8	2-10	2-11	3-1	3-2	3-4
250.00	2-7	2-9	2-11	3-1	3-3	3-5	3-8	3-10	4-0	4-1
275.00	3-1	3-4	3-6	3-9	4-0	4-2	4-5	4-7	4-10	5-0
300.00	3-8	3-11	4-2	4-6	4-9	5-0	5-3	5-6	5-8	5-11
325.00	4-4	4-8	4-11	5-3	5-6	5-10	6-2	6-5	6-8	7-0
350.00	5-0	5-4	5-9	6-1	6-5	6-9	7-1	7-5	7-9	8-1
375.00	5-9	6-2	6-7	7-0	7-5	7-9	8-2	8-7	8-11	9-3

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-11	1-0	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-6
175.00	1-3	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1
200.00	1-8	1-10	1-11	2-1	2-2	2-3	2-5	2-6	2-7	2-8
225.00	2-2	2-3	2-5	2-7	2-9	2-11	3-0	3-2	3-4	3-5
250.00	2-8	2-10	3-0	3-2	3-5	3-7	3-9	3-11	4-1	4-3
275.00	3-2	3-5	3-8	3-10	4-1	4-4	4-6	4-9	4-11	5-1
300.00	3-9	4-1	4-4	4-7	4-10	5-1	5-4	5-7	5-10	6-1
325.00	4-5	4-9	5-1	5-5	5-9	6-0	6-4	6-7	6-11	7-2
350.00	5-2	5-6	5-11	6-3	6-7	7-0	7-4	7-8	8-0	8-4
375.00	5-11	6-4	6-9	7-2	7-7	8-0	8-5	8-9	9-2	9-6

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SHEET 11 OF 21	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH816.11
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING #6 3-STRAND BARE COPPER TENSION 390 LBS					

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.321	4.12	390	4.12	390*
20	0	0	0	0.083	2.53	163	2.40	172
30	0	0	0	0.083	2.73	151	2.60	159
40	0	0	0	0.083	2.93	141	2.79	148
50	0	0	0	0.083	3.12	132	2.98	138
60	0	0	0	0.083	3.31	125	3.17	130
70	0	0	0	0.083	3.49	118	3.35	123
80	0	0	0	0.083	3.67	113	3.53	117
90	0	0	0	0.083	3.84	108	3.70	112
100	0	0	0	0.083	4.00	103	3.87	107
110	0	0	0	0.083	4.16	99	4.03	103
120	0	0	0	0.083	4.32	96	4.18	99
130	0	0	0	0.083	4.47	93	4.34	95
167	0	0	0	0.083	4.99	83	4.87	85
212	0	0	0	0.083	5.57	74	5.46	76
* Design Condition								

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SHEET 12 OF 21	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH816.12
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING #6 3-STRAND BARE COPPER TENSION 390 LBS					

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.321	9.29	390	9.29	390*
20	0	0	0	0.083	7.73	120	7.58	123
30	0	0	0	0.083	7.92	118	7.77	120
40	0	0	0	0.083	8.11	115	7.96	117
50	0	0	0	0.083	8.29	112	8.14	114
60	0	0	0	0.083	8.47	110	8.33	112
70	0	0	0	0.083	8.65	108	8.51	109
80	0	0	0	0.083	8.82	106	8.68	107
90	0	0	0	0.083	8.99	104	8.85	105
100	0	0	0	0.083	9.16	102	9.02	103
110	0	0	0	0.083	9.33	100	9.19	101
120	0	0	0	0.083	9.49	98	9.36	100
130	0	0	0	0.083	9.65	97	9.52	98
167	0	0	0	0.083	10.23	91	10.10	92
212	0	0	0	0.083	10.89	86	10.77	87

* Design Condition

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SHEET 13 OF 21	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH816.13
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 300' RULING SPAN 85MPH LIGHT LOADING #6 3-STRAND BARE COPPER TENSION 390 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-6	0-6
100.00	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-9	0-10	0-11
125.00	0-5	0-5	0-6	0-7	0-8	0-10	0-11	1-1	1-4	1-6
150.00	0-7	0-8	0-9	0-10	1-0	1-2	1-4	1-7	1-10	2-2
175.00	0-10	0-11	1-0	1-2	1-4	1-7	1-10	2-2	2-7	2-11
200.00	1-0	1-2	1-4	1-6	1-9	2-1	2-5	2-10	3-4	3-10

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-5	0-5	0-6	0-7
100.00	0-3	0-4	0-4	0-5	0-6	0-7	0-8	0-10	0-11	1-1
125.00	0-5	0-5	0-6	0-7	0-9	0-11	1-1	1-3	1-5	1-8
150.00	0-7	0-8	0-9	0-11	1-1	1-3	1-6	1-10	2-1	2-5
175.00	0-10	0-11	1-0	1-3	1-5	1-9	2-1	2-5	2-10	3-3
200.00	1-0	1-2	1-4	1-7	1-11	2-3	2-8	3-3	3-9	4-3

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<div style="text-align: center;"> <p>SHEET</p> <p>14 OF 21</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH816.14</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING</p> <p>#6 3-STRAND BARE COPPER TENSION 390 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-7	0-8	0-8	0-9	0-10	0-10	0-11	0-11	1-0	1-0
125.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-5	1-6	1-7
150.00	1-4	1-6	1-7	1-8	1-9	1-11	2-0	2-1	2-2	2-3
175.00	1-10	2-0	2-2	2-3	2-5	2-7	2-8	2-10	3-0	3-1
200.00	2-5	2-7	2-10	3-0	3-2	3-4	3-6	3-8	3-10	4-0
225.00	3-0	3-3	3-6	3-9	4-0	4-3	4-6	4-8	4-11	5-1
250.00	3-9	4-1	4-4	4-8	4-11	5-3	5-6	5-9	6-1	6-4

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-0	1-0
125.00	1-0	1-1	1-2	1-3	1-4	1-4	1-5	1-6	1-7	1-7
150.00	1-5	1-6	1-8	1-9	1-10	2-0	2-1	2-2	2-3	2-4
175.00	1-11	2-1	2-3	2-5	2-6	2-8	2-10	2-11	3-1	3-2
200.00	2-6	2-9	2-11	3-1	3-4	3-6	3-8	3-10	4-0	4-2
225.00	3-2	3-5	3-9	3-11	4-2	4-5	4-8	4-10	5-1	5-3
250.00	3-11	4-3	4-7	4-11	5-2	5-5	5-9	6-0	6-3	6-6

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SHEET 15 OF 21		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH816.15
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING #6 3-STRAND BARE COPPER TENSION 390 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-11	1-11	2-0	2-0	2-1	2-1	2-2	2-3	2-3	2-4
175.00	2-7	2-8	2-8	2-9	2-10	2-11	2-11	3-0	3-1	3-1
200.00	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1
225.00	4-3	4-4	4-6	4-7	4-8	4-9	4-11	5-0	5-1	5-2
250.00	5-3	5-5	5-6	5-8	5-9	5-11	6-0	6-2	6-3	6-5
275.00	6-4	6-6	6-8	6-10	7-0	7-2	7-4	7-5	7-7	7-9
300.00	7-7	7-9	8-0	8-2	8-4	8-6	8-8	8-10	9-0	9-2
325.00	8-11	9-1	9-4	9-7	9-9	10-0	10-2	10-5	10-7	10-9
350.00	10-4	10-7	10-10	11-1	11-4	11-7	11-10	12-1	12-3	12-6
375.00	11-10	12-2	12-5	12-9	13-0	13-4	13-7	13-10	14-1	14-4

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-11	2-0	2-0	2-1	2-1	2-2	2-2	2-3	2-3	2-4
175.00	2-8	2-8	2-9	2-10	2-11	2-11	3-0	3-1	3-1	3-2
200.00	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2
225.00	4-4	4-5	4-7	4-8	4-9	4-10	5-0	5-1	5-2	5-3
250.00	5-4	5-6	5-8	5-9	5-11	6-0	6-2	6-3	6-4	6-6
275.00	6-6	6-8	6-10	7-0	7-1	7-3	7-5	7-7	7-8	7-10
300.00	7-9	7-11	8-1	8-3	8-6	8-8	8-10	9-0	9-2	9-4
325.00	9-1	9-4	9-6	9-9	9-11	10-2	10-4	10-7	10-9	10-11
350.00	10-6	10-9	11-0	11-3	11-6	11-9	12-0	12-3	12-6	12-8
375.00	12-1	12-5	12-8	13-0	13-3	13-6	13-10	14-1	14-4	14-7

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<div>SHEET</div> <div>16 OF 21</div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	OH816.16
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING #6 3-STRAND BARE COPPER TENSION 390 LBS						

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	0.534	6.88	390	6.88	390*
20	0	0	0	0.083	5.84	71	5.73	72
30	0	0	0	0.083	5.96	69	5.85	71
40	0	0	0	0.083	6.07	68	5.97	69
50	0	0	0	0.083	6.19	67	6.08	68
60	0	0	0	0.083	6.30	66	6.19	67
70	0	0	0	0.083	6.41	65	6.30	66
80	0	0	0	0.083	6.51	64	6.41	65
90	0	0	0	0.083	6.62	63	6.52	64
100	0	0	0	0.083	6.72	62	6.62	63
110	0	0	0	0.083	6.83	61	6.73	62
120	0	0	0	0.083	6.93	60	6.83	61
130	0	0	0	0.083	7.03	59	6.93	60
167	0	0	0	0.083	7.38	56	7.29	57
212	0	0	0	0.083	7.80	53	7.71	54
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 17 OF 21		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH816.17
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING #6 3-STRAND BARE COPPER TENSION 390 LBS									

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	0.534	15.57	390	15.57	390*
20	0	0	0	0.083	14.57	64	14.46	65
30	0	0	0	0.083	14.68	64	14.57	64
40	0	0	0	0.083	14.78	63	14.68	64
50	0	0	0	0.083	14.89	63	14.79	63
60	0	0	0	0.083	15.00	63	14.89	63
70	0	0	0	0.083	15.10	62	15.00	62
80	0	0	0	0.083	15.21	62	15.11	62
90	0	0	0	0.083	15.31	61	15.21	62
100	0	0	0	0.083	15.41	61	15.31	61
110	0	0	0	0.083	15.52	60	15.42	61
120	0	0	0	0.083	15.62	60	15.52	60
130	0	0	0	0.083	15.72	60	15.62	60
167	0	0	0	0.083	16.09	58	15.99	59
212	0	0	0	0.083	16.53	57	16.44	57

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 18 OF 21	Indicates Latest Revision	Completely Revised	<input checked="" type="checkbox"/> New Page	Information Removed	OH816.18
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	DESIGN TABLES: 300' RULING SPAN 111MPH LIGHT LOADING #6 3-STRAND BARE COPPER TENSION 390 LBS				

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-4	0-5	0-6	0-7	0-8	0-8	0-9	0-10	0-11
100.00	0-6	0-8	0-9	0-10	1-0	1-1	1-3	1-4	1-6	1-7
125.00	0-10	1-0	1-2	1-4	1-7	1-9	1-11	2-1	2-3	2-5
150.00	1-3	1-5	1-8	2-0	2-3	2-6	2-9	3-1	3-4	3-6
175.00	1-8	1-11	2-4	2-8	3-1	3-5	3-10	4-2	4-6	4-10
200.00	2-2	2-7	3-0	3-6	4-0	4-6	5-0	5-5	5-10	6-3

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-11	0-11
100.00	0-7	0-9	0-10	1-0	1-1	1-3	1-4	1-5	1-7	1-8
125.00	0-11	1-1	1-4	1-6	1-9	1-11	2-1	2-3	2-5	2-7
150.00	1-4	1-7	1-11	2-2	2-6	2-9	3-0	3-3	3-6	3-9
175.00	1-10	2-2	2-7	3-0	3-5	3-9	4-1	4-6	4-9	5-1
200.00	2-5	2-10	3-5	3-11	4-5	4-11	5-5	5-10	6-3	6-8

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<div style="text-align: center;"> <p>SHEET</p> <p>19 OF 21</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH816.19</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING</p> <p>#6 3-STRAND BARE COPPER TENSION 390 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-5	1-6	1-6	1-6	1-7	1-7	1-7	1-8	1-8	1-8
125.00	2-3	2-3	2-4	2-4	2-5	2-6	2-6	2-7	2-7	2-8
150.00	3-3	3-3	3-4	3-5	3-6	3-7	3-7	3-8	3-9	3-9
175.00	4-5	4-6	4-7	4-8	4-9	4-10	4-11	5-0	5-1	5-2
200.00	5-9	5-10	6-0	6-1	6-2	6-4	6-5	6-6	6-7	6-9
225.00	7-3	7-5	7-7	7-8	7-10	8-0	8-1	8-3	8-5	8-6
250.00	9-0	9-2	9-4	9-6	9-8	9-10	10-0	10-2	10-4	10-6

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-6	1-6	1-6	1-7	1-7	1-7	1-8	1-8	1-8	1-8
125.00	2-3	2-4	2-4	2-5	2-5	2-6	2-7	2-7	2-7	2-8
150.00	3-3	3-4	3-5	3-6	3-6	3-7	3-8	3-9	3-9	3-10
175.00	4-6	4-7	4-8	4-9	4-10	4-11	5-0	5-1	5-2	5-3
200.00	5-10	6-0	6-1	6-2	6-4	6-5	6-6	6-7	6-9	6-10
225.00	7-5	7-7	7-8	7-10	8-0	8-1	8-3	8-5	8-6	8-8
250.00	9-2	9-4	9-6	9-8	9-10	10-0	10-2	10-4	10-6	10-8

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SHEET 20 OF 21	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH816.20
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING #6 3-STRAND BARE COPPER TENSION 390 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-7	3-8	3-8	3-8	3-9	3-9	3-9	3-10	3-10	3-10
175.00	4-11	4-11	5-0	5-0	5-1	5-1	5-2	5-2	5-2	5-3
200.00	6-5	6-6	6-6	6-7	6-7	6-8	6-8	6-9	6-10	6-10
225.00	8-1	8-2	8-3	8-4	8-4	8-5	8-6	8-7	8-7	8-8
250.00	10-0	10-1	10-2	10-3	10-4	10-5	10-6	10-7	10-7	10-8
275.00	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11
300.00	14-6	14-7	14-8	14-9	14-11	15-0	15-1	15-3	15-4	15-5
325.00	17-0	17-1	17-3	17-4	17-6	17-7	17-9	17-10	18-0	18-1
350.00	19-8	19-10	20-0	20-2	20-4	20-5	20-7	20-9	20-10	21-0
375.00	22-8	22-10	23-0	23-2	23-4	23-6	23-8	23-10	24-0	24-2

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-8	3-8	3-8	3-9	3-9	3-9	3-10	3-10	3-10	3-10
175.00	4-11	5-0	5-0	5-1	5-1	5-2	5-2	5-2	5-3	5-3
200.00	6-6	6-6	6-7	6-7	6-8	6-8	6-9	6-10	6-10	6-11
225.00	8-2	8-3	8-4	8-4	8-5	8-6	8-6	8-7	8-8	8-9
250.00	10-1	10-2	10-3	10-4	10-5	10-6	10-7	10-7	10-8	10-9
275.00	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	13-0
300.00	14-7	14-8	14-9	14-11	15-0	15-1	15-2	15-4	15-5	15-6
325.00	17-1	17-3	17-4	17-6	17-7	17-9	17-10	18-0	18-1	18-3
350.00	19-10	20-0	20-2	20-3	20-5	20-7	20-9	20-10	21-0	21-2
375.00	22-10	23-0	23-2	23-4	23-6	23-8	23-10	24-0	24-2	24-4

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<div style="text-align: center;"> <p>SHEET</p> <p>21 OF 21</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH816.21</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING</p> <p>#6 3-STRAND BARE COPPER TENSION 390 LBS</p> </div>						

SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR #4 3-STRAND BARE COPPER CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

G.O. 95 LIGHT LOADING CONDITION

550 LB TENSION ----- 817.2

65 MPH LIGHT KNOWN LOCAL WIND CONDITION

550 LB TENSION ----- 817.7

85 MPH LIGHT KNOWN LOCAL WIND CONDITION

550 LB TENSION ----- 817.12

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

550 LB TENSION ----- 817.17

REFERENCE

- a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805; SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

#4 3-STRAND BARE COPPER TABLE OF CONTENTS

OH817.1

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.212	1.93	550	1.93	550*
25	0	0	0	0.128	1.34	478	1.31	487
30	0	0	0	0.128	1.40	458	1.37	469
40	0	0	0	0.128	1.52	420	1.48	434
50	0	0	0	0.128	1.67	384	1.60	401
60	0	0	0	0.128	1.82	352	1.73	370
70	0	0	0	0.128	1.98	323	1.88	341
80	0	0	0	0.128	2.15	297	2.03	315
90	0	0	0	0.128	2.33	275	2.19	292
100	0	0	0	0.128	2.51	255	2.36	271
110	0	0	0	0.128	2.69	238	2.54	253
120	0	0	0	0.128	2.88	223	2.71	236
130	0	0	0	0.128	3.05	210	2.88	222
167	0	0	0	0.128	3.69	174	3.51	183
212	0	0	0	0.128	4.38	146	4.21	152

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 2 OF 21	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH817.2
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING #4 3-STRAND BARE COPPER TENSION 550 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-5
100.00	0-3	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9
125.00	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-2
150.00	0-8	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-6	1-9
175.00	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-10	2-1	2-4
200.00	1-2	1-3	1-4	1-6	1-8	1-10	2-1	2-4	2-8	3-1

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Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8
125.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-10	0-11	1-0
150.00	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
175.00	1-0	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-10	1-11
200.00	1-3	1-4	1-6	1-7	1-9	1-11	2-0	2-2	2-4	2-6
225.00	1-7	1-9	1-10	2-0	2-2	2-5	2-7	2-9	3-0	3-3
250.00	2-0	2-2	2-4	2-6	2-8	2-11	3-2	3-5	3-8	4-0

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-8
125.00	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-1
150.00	0-9	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-6
175.00	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-9	1-11	2-1
200.00	1-3	1-5	1-6	1-8	1-10	2-0	2-2	2-4	2-6	2-8
225.00	1-7	1-9	1-11	2-1	2-4	2-6	2-9	2-11	3-2	3-5
250.00	2-0	2-2	2-5	2-7	2-10	3-1	3-4	3-8	3-11	4-3

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SHEET 5 OF 21	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH817.5
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING #4 3-STRAND BARE COPPER TENSION 550 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-4
175.00	1-1	1-2	1-3	1-4	1-4	1-5	1-6	1-7	1-8	1-9
200.00	1-5	1-6	1-7	1-8	1-10	1-11	2-0	2-1	2-2	2-4
225.00	1-10	1-11	2-0	2-2	2-3	2-5	2-6	2-8	2-9	2-11
250.00	2-3	2-4	2-6	2-8	2-10	3-0	3-1	3-3	3-5	3-7
275.00	2-8	2-10	3-0	3-3	3-5	3-7	3-9	4-0	4-2	4-4
300.00	3-2	3-5	3-7	3-10	4-0	4-3	4-6	4-9	4-11	5-2
325.00	3-9	4-0	4-3	4-6	4-9	5-0	5-3	5-6	5-10	6-1
350.00	4-4	4-7	4-11	5-2	5-6	5-10	6-1	6-5	6-9	7-1
375.00	5-0	5-4	5-8	6-0	6-4	6-8	7-0	7-5	7-9	8-1

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-10	0-11	1-0	1-1	1-1	1-2	1-3	1-3	1-4
175.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10
200.00	1-5	1-7	1-8	1-9	1-10	2-0	2-1	2-2	2-3	2-5
225.00	1-10	2-0	2-1	2-3	2-4	2-6	2-7	2-9	2-11	3-0
250.00	2-3	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-7	3-9
275.00	2-9	2-11	3-1	3-4	3-6	3-9	3-11	4-1	4-4	4-6
300.00	3-3	3-6	3-9	3-11	4-2	4-5	4-8	4-11	5-2	5-4
325.00	3-10	4-1	4-4	4-8	4-11	5-2	5-6	5-9	6-0	6-4
350.00	4-5	4-9	5-1	5-4	5-8	6-0	6-4	6-8	7-0	7-4
375.00	5-1	5-5	5-10	6-2	6-6	6-11	7-3	7-8	8-0	8-5

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 6 OF 21	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	OH817.6
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING #4 3-STRAND BARE COPPER TENSION 550 LBS						

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.262	5.37	550	5.37	550*
20	0	0	0	0.128	3.40	424	3.32	434
30	0	0	0	0.128	3.63	397	3.52	409
40	0	0	0	0.128	3.86	374	3.74	386
50	0	0	0	0.128	4.09	352	3.96	364
60	0	0	0	0.128	4.33	333	4.18	345
70	0	0	0	0.128	4.57	316	4.41	327
80	0	0	0	0.128	4.80	300	4.63	311
90	0	0	0	0.128	5.04	286	4.86	296
100	0	0	0	0.128	5.27	273	5.09	283
110	0	0	0	0.128	5.50	262	5.31	271
120	0	0	0	0.128	5.73	252	5.54	260
130	0	0	0	0.128	5.95	242	5.76	250
167	0	0	0	0.128	6.74	214	6.54	221
212	0	0	0	0.128	7.63	189	7.43	194

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 8 OF 21	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH817.8
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 300' RULING SPAN 65MPH LIGHT LOADING #4 3-STRAND BARE COPPER TENSION 550 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4
100.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7
125.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11
150.00	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2	1-4
175.00	0-9	0-10	0-11	0-11	1-0	1-2	1-3	1-5	1-7	1-9
200.00	1-0	1-1	1-2	1-3	1-4	1-6	1-8	1-10	2-1	2-4

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8
125.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-11	1-0
150.00	0-7	0-7	0-8	0-8	0-9	0-10	1-0	1-1	1-3	1-5
175.00	0-9	0-10	0-11	0-11	1-1	1-2	1-4	1-6	1-9	2-0
200.00	1-0	1-1	1-2	1-3	1-5	1-6	1-9	2-0	2-3	2-7

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 9 OF 21	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH817.9
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING #4 3-STRAND BARE COPPER TENSION 550 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7
125.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11
150.00	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
175.00	0-11	1-0	1-0	1-1	1-3	1-4	1-5	1-7	1-8	1-10
200.00	1-2	1-3	1-4	1-6	1-7	1-9	1-10	2-0	2-2	2-4
225.00	1-6	1-7	1-9	1-10	2-0	2-2	2-4	2-7	2-9	3-0
250.00	1-10	2-0	2-1	2-3	2-6	2-8	2-11	3-2	3-5	3-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7
125.00	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-0
150.00	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5
175.00	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-9	1-11
200.00	1-2	1-3	1-5	1-6	1-8	1-10	2-0	2-2	2-4	2-6
225.00	1-6	1-7	1-9	1-11	2-1	2-3	2-6	2-8	2-11	3-2
250.00	1-10	2-0	2-2	2-4	2-7	2-10	3-1	3-4	3-7	3-11

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SHEET 10 OF 21	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH817.10
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING #4 3-STRAND BARE COPPER TENSION 550 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span:	300.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-3	1-4
175.00	1-2	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10
200.00	1-6	1-7	1-8	1-9	1-10	1-11	2-1	2-2	2-3	2-4
225.00	1-10	2-0	2-1	2-3	2-4	2-6	2-7	2-9	2-10	3-0
250.00	2-4	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-6	3-8
275.00	2-9	3-0	3-2	3-4	3-6	3-8	3-11	4-1	4-3	4-6
300.00	3-4	3-6	3-9	3-11	4-2	4-5	4-8	4-10	5-1	5-4
325.00	3-11	4-2	4-5	4-8	4-11	5-2	5-5	5-8	6-0	6-3
350.00	4-6	4-10	5-1	5-5	5-8	6-0	6-4	6-7	6-11	7-3
375.00	5-2	5-6	5-10	6-2	6-6	6-11	7-3	7-7	7-11	8-4


Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-5
175.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-10
200.00	1-6	1-7	1-9	1-10	1-11	2-0	2-2	2-3	2-4	2-5
225.00	1-11	2-0	2-2	2-4	2-5	2-7	2-8	2-10	3-0	3-1
250.00	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-10
275.00	2-10	3-1	3-3	3-5	3-8	3-10	4-0	4-3	4-5	4-7
300.00	3-5	3-8	3-10	4-1	4-4	4-7	4-10	5-0	5-3	5-6
325.00	4-0	4-3	4-6	4-10	5-1	5-4	5-8	5-11	6-2	6-6
350.00	4-8	4-11	5-3	5-7	5-11	6-3	6-6	6-10	7-2	7-6
375.00	5-4	5-8	6-0	6-5	6-9	7-2	7-6	7-11	8-3	8-7

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 11 OF 21		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH817.11
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING #4 3-STRAND BARE COPPER TENSION 550 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.412	3.75	550	3.75	550*
20	0	0	0	0.128	1.95	328	1.85	346
30	0	0	0	0.128	2.12	301	2.00	319
40	0	0	0	0.128	2.30	278	2.17	296
50	0	0	0	0.128	2.48	258	2.33	274
60	0	0	0	0.128	2.66	240	2.51	256
70	0	0	0	0.128	2.84	225	2.68	239
80	0	0	0	0.128	3.02	212	2.85	225
90	0	0	0	0.128	3.20	200	3.03	212
100	0	0	0	0.128	3.37	190	3.20	200
110	0	0	0	0.128	3.54	181	3.36	190
120	0	0	0	0.128	3.71	173	3.53	182
130	0	0	0	0.128	3.87	166	3.69	174
167	0	0	0	0.128	4.43	145	4.26	151
212	0	0	0	0.128	5.05	127	4.89	131
* Design Condition								

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 12 OF 21	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	OH817.12
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING #4 3-STRAND BARE COPPER TENSION 550 LBS				

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.412	8.45	550	8.45	550*
20	0	0	0	0.128	6.48	223	6.28	230
30	0	0	0	0.128	6.69	216	6.49	222
40	0	0	0	0.128	6.89	209	6.69	216
50	0	0	0	0.128	7.09	203	6.89	209
60	0	0	0	0.128	7.29	198	7.09	204
70	0	0	0	0.128	7.49	193	7.29	198
80	0	0	0	0.128	7.68	188	7.48	193
90	0	0	0	0.128	7.86	184	7.67	188
100	0	0	0	0.128	8.05	179	7.85	184
110	0	0	0	0.128	8.23	176	8.03	180
120	0	0	0	0.128	8.41	172	8.21	176
130	0	0	0	0.128	8.58	168	8.39	172
167	0	0	0	0.128	9.20	157	9.02	160
212	0	0	0	0.128	9.92	146	9.74	149

* Design Condition

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Information Removed

SHEET
13 OF 21

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

OH817.13

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5
100.00	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8
125.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	1-0	1-1
150.00	0-7	0-8	0-9	0-10	0-10	1-0	1-1	1-3	1-5	1-7
175.00	0-10	0-11	1-0	1-1	1-2	1-4	1-6	1-8	1-11	2-2
200.00	1-1	1-2	1-3	1-5	1-7	1-9	1-11	2-2	2-6	2-10

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-5
100.00	0-3	0-4	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-10
125.00	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-3
150.00	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-7	1-9
175.00	0-10	0-11	1-0	1-1	1-3	1-5	1-7	1-10	2-1	2-5
200.00	1-1	1-2	1-4	1-5	1-8	1-10	2-1	2-5	2-9	3-2

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 14 OF 21		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH817.14
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING #4 3-STRAND BARE COPPER TENSION 550 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-6	0-6	0-7	0-8	0-8	0-9	0-9	0-10	0-10
125.00	0-9	0-9	0-10	0-11	1-0	1-1	1-1	1-2	1-3	1-4
150.00	1-0	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-10	1-11
175.00	1-5	1-6	1-8	1-9	1-11	2-1	2-2	2-4	2-5	2-7
200.00	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4
225.00	2-4	2-6	2-9	2-11	3-2	3-5	3-7	3-10	4-1	4-3
250.00	2-11	3-2	3-5	3-8	3-11	4-2	4-5	4-9	5-0	5-3

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-10	0-11
125.00	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-5
150.00	1-1	1-2	1-4	1-5	1-6	1-7	1-8	1-10	1-11	2-0
175.00	1-6	1-8	1-9	1-11	2-0	2-2	2-4	2-5	2-7	2-9
200.00	1-11	2-1	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6
225.00	2-6	2-8	2-11	3-2	3-4	3-7	3-10	4-1	4-3	4-6
250.00	3-1	3-4	3-7	3-11	4-2	4-5	4-9	5-0	5-3	5-6

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<div style="text-align: center;"> <p>SHEET</p> <p>15 OF 21</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH817.15</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING</p> <p>#4 3-STRAND BARE COPPER TENSION 550 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-7	1-7	1-8	1-9	1-9	1-10	1-10	1-11	2-0	2-0
175.00	2-2	2-2	2-3	2-4	2-5	2-6	2-7	2-7	2-8	2-9
200.00	2-9	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7
225.00	3-6	3-8	3-9	3-11	4-0	4-1	4-2	4-4	4-5	4-6
250.00	4-4	4-6	4-8	4-9	4-11	5-1	5-2	5-4	5-5	5-7
275.00	5-3	5-5	5-7	5-9	5-11	6-1	6-3	6-5	6-7	6-9
300.00	6-3	6-6	6-8	6-11	7-1	7-3	7-6	7-8	7-10	8-0
325.00	7-4	7-7	7-10	8-1	8-4	8-7	8-9	9-0	9-3	9-5
350.00	8-7	8-10	9-1	9-5	9-8	9-11	10-2	10-5	10-8	10-11
375.00	9-10	10-2	10-6	10-9	11-1	11-5	11-8	12-0	12-3	12-7

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-7	1-8	1-9	1-9	1-10	1-10	1-11	2-0	2-0	2-1
175.00	2-2	2-3	2-4	2-5	2-6	2-7	2-7	2-8	2-9	2-10
200.00	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8
225.00	3-8	3-9	3-11	4-0	4-1	4-3	4-4	4-5	4-6	4-8
250.00	4-6	4-8	4-9	4-11	5-1	5-2	5-4	5-6	5-7	5-9
275.00	5-5	5-7	5-9	6-0	6-2	6-3	6-5	6-7	6-9	6-11
300.00	6-6	6-8	6-11	7-1	7-3	7-6	7-8	7-10	8-1	8-3
325.00	7-7	7-10	8-1	8-4	8-7	8-9	9-0	9-3	9-5	9-8
350.00	8-10	9-1	9-5	9-8	9-11	10-2	10-5	10-8	10-11	11-2
375.00	10-1	10-5	10-9	11-1	11-5	11-8	12-0	12-4	12-7	12-10

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SHEET 16 OF 21		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH817.16
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING #4 3-STRAND BARE COPPER TENSION 550 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	0.679	6.20	550	6.20	550*
20	0	0	0	0.128	4.78	134	4.62	139
30	0	0	0	0.128	4.92	130	4.75	135
40	0	0	0	0.128	5.05	127	4.89	131
50	0	0	0	0.128	5.18	124	5.02	128
60	0	0	0	0.128	5.31	121	5.15	125
70	0	0	0	0.128	5.43	118	5.27	122
80	0	0	0	0.128	5.55	116	5.40	119
90	0	0	0	0.128	5.67	113	5.52	116
100	0	0	0	0.128	5.79	111	5.64	114
110	0	0	0	0.128	5.91	109	5.76	112
120	0	0	0	0.128	6.02	107	5.87	109
130	0	0	0	0.128	6.13	105	5.99	107
167	0	0	0	0.128	6.53	98	6.39	101
212	0	0	0	0.128	6.99	92	6.86	94
* Design Condition								

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 17 OF 21		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH817.17
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING #4 3-STRAND BARE COPPER TENSION 550 LBS									

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	0.679	14.01	550	14.01	550*
20	0	0	0	0.128	12.65	115	12.49	116
30	0	0	0	0.128	12.77	114	12.61	115
40	0	0	0	0.128	12.89	113	12.74	114
50	0	0	0	0.128	13.01	111	12.86	113
60	0	0	0	0.128	13.13	110	12.98	112
70	0	0	0	0.128	13.25	110	13.10	111
80	0	0	0	0.128	13.37	109	13.22	110
90	0	0	0	0.128	13.49	108	13.34	109
100	0	0	0	0.128	13.60	107	13.45	108
110	0	0	0	0.128	13.72	106	13.57	107
120	0	0	0	0.128	13.83	105	13.68	106
130	0	0	0	0.128	13.94	104	13.80	105
167	0	0	0	0.128	14.36	101	14.21	102
212	0	0	0	0.128	14.84	98	14.70	99

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
#4 3-STRAND BARE COPPER TENSION 550 LBS

OH817.18

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-6	0-7	0-8
100.00	0-5	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-2
125.00	0-7	0-8	0-9	0-11	1-0	1-2	1-3	1-5	1-7	1-9
150.00	0-11	1-0	1-1	1-3	1-5	1-8	1-10	2-1	2-4	2-7
175.00	1-3	1-4	1-6	1-9	1-11	2-3	2-6	2-10	3-2	3-6
200.00	1-7	1-9	2-0	2-3	2-7	2-11	3-3	3-8	4-2	4-7

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-3	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-9
100.00	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-2	1-3
125.00	0-8	0-9	0-10	1-0	1-2	1-3	1-6	1-8	1-10	2-0
150.00	0-11	1-1	1-3	1-5	1-7	1-10	2-1	2-4	2-7	2-10
175.00	1-3	1-6	1-8	1-11	2-2	2-6	2-10	3-3	3-7	3-11
200.00	1-8	1-11	2-2	2-6	2-11	3-4	3-9	4-2	4-8	5-1

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SHEET 19 OF 21	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH817.19
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING #4 3-STRAND BARE COPPER TENSION 550 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-2	1-3	1-3	1-3	1-4	1-4	1-5	1-5	1-5
125.00	1-10	1-10	1-11	2-0	2-0	2-1	2-1	2-2	2-2	2-3
150.00	2-7	2-8	2-9	2-10	2-11	3-0	3-0	3-1	3-2	3-3
175.00	3-6	3-8	3-9	3-10	3-11	4-0	4-2	4-3	4-4	4-5
200.00	4-7	4-9	4-11	5-0	5-2	5-3	5-5	5-6	5-8	5-9
225.00	5-10	6-0	6-2	6-4	6-6	6-8	6-10	7-0	7-2	7-3
250.00	7-3	7-5	7-8	7-10	8-1	8-3	8-5	8-8	8-10	9-0

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-3	1-3	1-4	1-4	1-4	1-5	1-5	1-5	1-6
125.00	1-10	1-11	2-0	2-0	2-1	2-1	2-2	2-3	2-3	2-4
150.00	2-8	2-9	2-10	2-11	3-0	3-1	3-1	3-2	3-3	3-4
175.00	3-8	3-9	3-10	4-0	4-1	4-2	4-3	4-4	4-5	4-6
200.00	4-9	4-11	5-1	5-2	5-4	5-5	5-7	5-8	5-9	5-11
225.00	6-1	6-3	6-5	6-7	6-9	6-11	7-0	7-2	7-4	7-6
250.00	7-6	7-8	7-11	8-1	8-4	8-6	8-8	8-10	9-1	9-3

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SHEET 20 OF 21	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH817.20
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING #4 3-STRAND BARE COPPER TENSION 550 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-1	3-2	3-2	3-3	3-3	3-3	3-4	3-4	3-4	3-5
175.00	4-3	4-3	4-4	4-4	4-5	4-5	4-6	4-6	4-7	4-7
200.00	5-7	5-7	5-8	5-8	5-9	5-10	5-10	5-11	6-0	6-0
225.00	7-0	7-1	7-2	7-3	7-4	7-4	7-5	7-6	7-7	7-7
250.00	8-8	8-9	8-10	8-11	9-0	9-1	9-2	9-3	9-4	9-5
275.00	10-6	10-7	10-8	10-10	10-11	11-0	11-1	11-2	11-4	11-5
300.00	12-6	12-7	12-9	12-10	13-0	13-1	13-3	13-4	13-5	13-7
325.00	14-8	14-10	14-11	15-1	15-3	15-5	15-6	15-8	15-10	15-11
350.00	17-0	17-2	17-4	17-6	17-8	17-10	18-0	18-2	18-4	18-6
375.00	19-6	19-9	19-11	20-1	20-4	20-6	20-8	20-10	21-1	21-3

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-2	3-2	3-3	3-3	3-3	3-4	3-4	3-4	3-5	3-5
175.00	4-4	4-4	4-5	4-5	4-6	4-6	4-6	4-7	4-7	4-8
200.00	5-7	5-8	5-9	5-9	5-10	5-11	5-11	6-0	6-0	6-1
225.00	7-1	7-2	7-3	7-4	7-5	7-5	7-6	7-7	7-8	7-8
250.00	8-9	8-10	8-11	9-0	9-1	9-2	9-3	9-4	9-5	9-6
275.00	10-7	10-9	10-10	10-11	11-0	11-2	11-3	11-4	11-5	11-6
300.00	12-8	12-9	12-11	13-0	13-2	13-3	13-4	13-6	13-7	13-9
325.00	14-10	15-0	15-2	15-3	15-5	15-7	15-8	15-10	16-0	16-1
350.00	17-3	17-5	17-7	17-9	17-11	18-1	18-3	18-4	18-6	18-8
375.00	19-9	20-0	20-2	20-4	20-7	20-9	20-11	21-1	21-3	21-6

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SHEET 21 OF 21	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH817.21
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING #4 3-STRAND BARE COPPER TENSION 550 LBS					

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SHEET 1 OF 21		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH818.1
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		#2 3-STRAND BARE COPPER TABLE OF CONTENTS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.294	1.75	840	1.75	840*
25	0	0	0	0.203	1.33	764	1.31	773
30	0	0	0	0.203	1.39	732	1.36	744
40	0	0	0	0.203	1.51	671	1.47	689
50	0	0	0	0.203	1.65	615	1.59	637
60	0	0	0	0.203	1.80	563	1.73	588
70	0	0	0	0.203	1.97	516	1.87	542
80	0	0	0	0.203	2.14	475	2.03	501
90	0	0	0	0.203	2.31	439	2.19	464
100	0	0	0	0.203	2.49	407	2.36	431
110	0	0	0	0.203	2.68	380	2.53	402
120	0	0	0	0.203	2.86	356	2.70	376
130	0	0	0	0.203	3.03	335	2.87	353
167	0	0	0	0.203	3.67	277	3.50	290
212	0	0	0	0.203	4.36	233	4.20	242
* Design Condition								

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 2 OF 21	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH818.2
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING #2 3-STRAND BARE COPPER TENSION 840 LBS					

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.294	3.95	840	3.95	840*
25	0	0	0	0.203	3.23	707	3.18	719
30	0	0	0	0.203	3.34	684	3.28	697
40	0	0	0	0.203	3.56	642	3.48	657
50	0	0	0	0.203	3.79	603	3.69	619
60	0	0	0	0.203	4.02	568	3.91	585
70	0	0	0	0.203	4.26	537	4.13	554
80	0	0	0	0.203	4.50	508	4.35	525
90	0	0	0	0.203	4.73	483	4.58	499
100	0	0	0	0.203	4.97	460	4.81	475
110	0	0	0	0.203	5.20	439	5.03	454
120	0	0	0	0.203	5.43	421	5.26	435
130	0	0	0	0.203	5.66	404	5.48	417
167	0	0	0	0.203	6.47	354	6.28	364
212	0	0	0	0.203	7.38	310	7.19	318

* Design Condition

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SHEET
3 OF 21

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' RULING SPAN GO95 LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

OH818.3

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-5
100.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9
125.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-1	1-3
150.00	0-8	0-9	0-10	0-10	1-0	1-1	1-3	1-5	1-7	1-9
175.00	0-11	1-0	1-1	1-2	1-4	1-6	1-8	1-11	2-2	2-5
200.00	1-2	1-3	1-5	1-7	1-9	1-11	2-2	2-5	2-9	3-2

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5	0-5	0-6
100.00	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-11
125.00	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1	1-3	1-5
150.00	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-6	1-9	2-0
175.00	0-11	1-0	1-1	1-3	1-5	1-7	1-10	2-1	2-5	2-9
200.00	1-2	1-4	1-5	1-7	1-10	2-1	2-5	2-9	3-2	3-7

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 4 OF 21		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH818.4	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING #2 3-STRAND BARE COPPER TENSION 840 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8
125.00	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-0
150.00	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
175.00	1-0	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-10	1-11
200.00	1-3	1-4	1-6	1-7	1-9	1-10	2-0	2-2	2-4	2-6
225.00	1-7	1-9	1-10	2-0	2-2	2-4	2-7	2-9	3-0	3-2
250.00	2-0	2-2	2-4	2-6	2-8	2-11	3-2	3-5	3-8	3-11

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8
125.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1
150.00	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-6
175.00	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-9	1-11	2-1
200.00	1-3	1-5	1-6	1-8	1-10	2-0	2-2	2-4	2-6	2-8
225.00	1-7	1-9	1-11	2-1	2-3	2-6	2-8	2-11	3-2	3-5
250.00	2-0	2-2	2-4	2-7	2-10	3-1	3-4	3-7	3-11	4-2

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 5 OF 21	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH818.5
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING #2 3-STRAND BARE COPPER TENSION 840 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-2	1-3
175.00	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
200.00	1-4	1-5	1-7	1-8	1-9	1-10	1-11	2-0	2-2	2-3
225.00	1-9	1-10	1-11	2-1	2-2	2-4	2-5	2-7	2-8	2-10
250.00	2-2	2-3	2-5	2-7	2-9	2-10	3-0	3-2	3-4	3-6
275.00	2-7	2-9	2-11	3-1	3-3	3-6	3-8	3-10	4-0	4-3
300.00	3-1	3-3	3-6	3-8	3-11	4-2	4-4	4-7	4-10	5-0
325.00	3-7	3-10	4-1	4-4	4-7	4-10	5-1	5-5	5-8	5-11
350.00	4-2	4-6	4-9	5-0	5-4	5-7	5-11	6-3	6-7	6-10
375.00	4-10	5-1	5-5	5-9	6-1	6-5	6-10	7-2	7-6	7-10

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-4
175.00	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-8	1-9
200.00	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-1	2-2	2-4
225.00	1-9	1-11	2-0	2-2	2-3	2-5	2-6	2-8	2-10	2-11
250.00	2-2	2-4	2-6	2-8	2-10	2-11	3-1	3-3	3-5	3-7
275.00	2-8	2-10	3-0	3-2	3-5	3-7	3-9	4-0	4-2	4-4
300.00	3-2	3-4	3-7	3-9	4-0	4-3	4-6	4-9	5-0	5-2
325.00	3-8	3-11	4-2	4-5	4-9	5-0	5-3	5-7	5-10	6-1
350.00	4-3	4-7	4-10	5-2	5-6	5-10	6-1	6-5	6-9	7-1
375.00	4-11	5-3	5-7	5-11	6-3	6-8	7-0	7-5	7-9	8-2

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 6 OF 21		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH818.6	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING #2 3-STRAND BARE COPPER TENSION 840 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.352	2.10	840	2.10	840*
20	0	0	0	0.203	1.13	895	1.13	895
30	0	0	0	0.203	1.22	834	1.22	835
40	0	0	0	0.203	1.32	768	1.31	776
50	0	0	0	0.203	1.44	705	1.41	720
60	0	0	0	0.203	1.57	646	1.53	666
70	0	0	0	0.203	1.72	591	1.65	615
80	0	0	0	0.203	1.87	542	1.79	567
90	0	0	0	0.203	2.04	498	1.94	524
100	0	0	0	0.203	2.21	459	2.10	484
110	0	0	0	0.203	2.39	424	2.26	449
120	0	0	0	0.203	2.57	395	2.43	418
130	0	0	0	0.203	2.76	369	2.60	390
167	0	0	0	0.203	3.41	298	3.24	314
212	0	0	0	0.203	4.13	246	3.97	256
* Design Condition								

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SHEET 7 OF 21	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH818.7
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING #2 3-STRAND BARE COPPER TENSION 840 LBS					

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.352	4.72	840	4.72	840*
20	0	0	0	0.203	3.05	750	3.01	758
30	0	0	0	0.203	3.26	701	3.20	713
40	0	0	0	0.203	3.48	657	3.40	672
50	0	0	0	0.203	3.70	617	3.61	633
60	0	0	0	0.203	3.93	581	3.82	598
70	0	0	0	0.203	4.17	548	4.04	565
80	0	0	0	0.203	4.41	519	4.27	535
90	0	0	0	0.203	4.64	492	4.49	509
100	0	0	0	0.203	4.88	468	4.72	484
110	0	0	0	0.203	5.12	447	4.95	462
120	0	0	0	0.203	5.35	428	5.18	442
130	0	0	0	0.203	5.58	410	5.40	424
167	0	0	0	0.203	6.39	358	6.20	369
212	0	0	0	0.203	7.31	313	7.12	321

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

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SHEET
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

OH818.8

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-6	0-7
125.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11
150.00	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-1	1-2	1-4
175.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-10
200.00	1-0	1-1	1-2	1-3	1-4	1-6	1-8	1-10	2-1	2-4

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8
125.00	0-5	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-11	1-0
150.00	0-7	0-7	0-8	0-9	0-9	0-11	1-0	1-2	1-3	1-6
175.00	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-6	1-9	2-0
200.00	1-0	1-1	1-2	1-3	1-5	1-7	1-9	2-0	2-4	2-8

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 9 OF 21	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH818.9
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING #2 3-STRAND BARE COPPER TENSION 840 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7
125.00	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11
150.00	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-3
175.00	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-9
200.00	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-11	2-1	2-3
225.00	1-5	1-6	1-8	1-9	1-11	2-1	2-3	2-5	2-8	2-10
250.00	1-9	1-11	2-1	2-2	2-5	2-7	2-10	3-0	3-3	3-6

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7
125.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-10	0-11
150.00	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
175.00	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-7	1-8	1-10
200.00	1-2	1-3	1-4	1-5	1-7	1-9	1-10	2-0	2-3	2-5
225.00	1-5	1-6	1-8	1-10	2-0	2-2	2-4	2-7	2-10	3-0
250.00	1-9	1-11	2-1	2-3	2-5	2-8	2-11	3-2	3-6	3-9

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SHEET 10 OF 21		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH818.10	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING #2 3-STRAND BARE COPPER TENSION 840 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3
175.00	1-0	1-1	1-2	1-3	1-4	1-5	1-5	1-6	1-7	1-8
200.00	1-4	1-5	1-6	1-7	1-8	1-10	1-11	2-0	2-1	2-2
225.00	1-8	1-10	1-11	2-0	2-2	2-3	2-5	2-6	2-8	2-9
250.00	2-1	2-3	2-4	2-6	2-8	2-10	3-0	3-1	3-3	3-5
275.00	2-6	2-8	2-10	3-0	3-3	3-5	3-7	3-9	4-0	4-2
300.00	3-0	3-2	3-5	3-7	3-10	4-1	4-3	4-6	4-9	4-11
325.00	3-6	3-9	4-0	4-3	4-6	4-9	5-0	5-3	5-7	5-10
350.00	4-1	4-4	4-8	4-11	5-2	5-6	5-10	6-1	6-5	6-9
375.00	4-9	5-0	5-4	5-8	6-0	6-4	6-8	7-0	7-5	7-9

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-10	0-10	0-11	1-0	1-1	1-1	1-2	1-3	1-3
175.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
200.00	1-4	1-5	1-7	1-8	1-9	1-10	1-11	2-1	2-2	2-3
225.00	1-9	1-10	1-11	2-1	2-3	2-4	2-6	2-7	2-9	2-11
250.00	2-1	2-3	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-7
275.00	2-7	2-9	2-11	3-1	3-4	3-6	3-8	3-11	4-1	4-4
300.00	3-1	3-3	3-6	3-8	3-11	4-2	4-5	4-8	4-11	5-1
325.00	3-7	3-10	4-1	4-4	4-7	4-11	5-2	5-5	5-9	6-0
350.00	4-2	4-5	4-9	5-0	5-4	5-8	6-0	6-4	6-8	7-0
375.00	4-9	5-1	5-5	5-9	6-2	6-6	6-11	7-3	7-8	8-0

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 11 OF 21		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH818.11	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING #2 3-STRAND BARE COPPER TENSION 840 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.533	3.18	840	3.18	840*
20	0	0	0	0.203	1.58	643	1.53	663
30	0	0	0	0.203	1.72	589	1.66	613
40	0	0	0	0.203	1.88	540	1.80	565
50	0	0	0	0.203	2.05	496	1.95	522
60	0	0	0	0.203	2.22	457	2.10	483
70	0	0	0	0.203	2.40	423	2.27	448
80	0	0	0	0.203	2.58	393	2.44	416
90	0	0	0	0.203	2.76	368	2.61	389
100	0	0	0	0.203	2.94	345	2.78	365
110	0	0	0	0.203	3.12	326	2.96	343
120	0	0	0	0.203	3.29	309	3.13	325
130	0	0	0	0.203	3.46	293	3.30	308
167	0	0	0	0.203	4.06	250	3.89	261
212	0	0	0	0.203	4.72	216	4.56	223
* Design Condition								

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 12 OF 21	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH818.12
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING #2 3-STRAND BARE COPPER TENSION 840 LBS					

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.533	7.16	840	7.16	840*
20	0	0	0	0.203	5.14	445	4.98	459
30	0	0	0	0.203	5.37	425	5.20	440
40	0	0	0	0.203	5.60	408	5.43	422
50	0	0	0	0.203	5.83	392	5.65	405
60	0	0	0	0.203	6.05	378	5.86	390
70	0	0	0	0.203	6.27	365	6.08	376
80	0	0	0	0.203	6.48	353	6.29	364
90	0	0	0	0.203	6.69	342	6.50	352
100	0	0	0	0.203	6.89	332	6.70	341
110	0	0	0	0.203	7.09	323	6.91	331
120	0	0	0	0.203	7.29	314	7.10	322
130	0	0	0	0.203	7.49	306	7.30	314
167	0	0	0	0.203	8.17	280	7.99	287
212	0	0	0	0.203	8.95	256	8.78	261

* Design Condition

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SHEET
13 OF 21

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' RULING SPAN 85MPH LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

OH818.13

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5
100.00	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8
125.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1
150.00	0-7	0-8	0-9	0-9	0-10	0-11	1-1	1-2	1-4	1-6
175.00	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-10	2-1
200.00	1-1	1-2	1-3	1-5	1-6	1-8	1-10	2-1	2-4	2-8

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5
100.00	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9
125.00	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-11	1-0	1-2
150.00	0-7	0-8	0-9	0-9	0-11	1-0	1-2	1-4	1-6	1-8
175.00	0-10	0-11	1-0	1-1	1-2	1-4	1-6	1-9	2-0	2-4
200.00	1-1	1-2	1-3	1-5	1-7	1-9	2-0	2-4	2-8	3-0

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 14 OF 21		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH818.14	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING #2 3-STRAND BARE COPPER TENSION 840 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9
125.00	0-7	0-8	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-2
150.00	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-8
175.00	1-2	1-3	1-5	1-6	1-7	1-9	1-10	2-0	2-2	2-3
200.00	1-6	1-8	1-10	1-11	2-1	2-3	2-5	2-7	2-9	2-11
225.00	1-11	2-1	2-3	2-6	2-8	2-10	3-1	3-4	3-6	3-9
250.00	2-5	2-7	2-10	3-0	3-3	3-7	3-10	4-1	4-4	4-7

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9
125.00	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-3
150.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-9
175.00	1-3	1-4	1-5	1-7	1-8	1-10	2-0	2-1	2-3	2-5
200.00	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-1
225.00	2-0	2-2	2-5	2-7	2-10	3-0	3-3	3-6	3-9	3-11
250.00	2-6	2-8	2-11	3-2	3-6	3-9	4-0	4-4	4-7	4-11

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 15 OF 21	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH818.15
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING #2 3-STRAND BARE COPPER TENSION 840 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span:	300.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-3	1-4	1-4	1-5	1-6	1-6	1-7	1-7	1-8	1-9
175.00	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-3	2-4
200.00	2-3	2-4	2-5	2-6	2-7	2-8	2-10	2-11	3-0	3-1
225.00	2-10	2-11	3-1	3-2	3-4	3-5	3-6	3-8	3-9	3-11
250.00	3-5	3-7	3-9	3-11	4-1	4-3	4-4	4-6	4-8	4-10
275.00	4-2	4-4	4-7	4-9	4-11	5-1	5-3	5-6	5-8	5-10
300.00	5-0	5-2	5-5	5-8	5-10	6-1	6-3	6-6	6-8	6-11
325.00	5-10	6-1	6-4	6-8	6-11	7-2	7-5	7-8	7-10	8-1
350.00	6-9	7-1	7-5	7-8	8-0	8-3	8-7	8-10	9-2	9-5
375.00	7-9	8-2	8-6	8-10	9-2	9-6	9-10	10-2	10-6	10-10

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-3	1-4	1-5	1-5	1-6	1-7	1-7	1-8	1-9	1-9
175.00	1-9	1-10	1-11	2-0	2-1	2-2	2-2	2-3	2-4	2-5
200.00	2-3	2-5	2-6	2-7	2-8	2-9	2-11	3-0	3-1	3-2
225.00	2-11	3-0	3-2	3-3	3-5	3-6	3-8	3-9	3-11	4-0
250.00	3-7	3-9	3-11	4-1	4-2	4-4	4-6	4-8	4-9	4-11
275.00	4-4	4-6	4-8	4-11	5-1	5-3	5-5	5-7	5-9	6-0
300.00	5-2	5-4	5-7	5-10	6-1	6-3	6-6	6-8	6-11	7-1
325.00	6-0	6-4	6-7	6-10	7-1	7-4	7-7	7-10	8-1	8-4
350.00	7-0	7-4	7-8	7-11	8-3	8-6	8-10	9-1	9-5	9-8
375.00	8-0	8-5	8-9	9-1	9-5	9-10	10-2	10-5	10-9	11-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 16 OF 21		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH818.16	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING #2 3-STRAND BARE COPPER TENSION 840 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	0.864	5.16	840	5.16	840*
20	0	0	0	0.203	3.58	284	3.41	298
30	0	0	0	0.203	3.74	272	3.57	284
40	0	0	0	0.203	3.90	261	3.73	272
50	0	0	0	0.203	4.06	251	3.89	261
60	0	0	0	0.203	4.21	242	4.04	251
70	0	0	0	0.203	4.36	233	4.19	242
80	0	0	0	0.203	4.50	226	4.34	234
90	0	0	0	0.203	4.64	219	4.48	227
100	0	0	0	0.203	4.78	213	4.62	220
110	0	0	0	0.203	4.92	207	4.76	214
120	0	0	0	0.203	5.05	201	4.90	208
130	0	0	0	0.203	5.18	196	5.03	202
167	0	0	0	0.203	5.64	181	5.49	185
212	0	0	0	0.203	6.16	166	6.02	169
* Design Condition								

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 17 OF 21	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH818.17
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING #2 3-STRAND BARE COPPER TENSION 840 LBS					

Span = 300 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	0.864	11.64	840	11.64	840*
20	0	0	0	0.203	10.11	227	9.94	231
30	0	0	0	0.203	10.26	224	10.09	227
40	0	0	0	0.203	10.41	220	10.24	224
50	0	0	0	0.203	10.55	217	10.39	221
60	0	0	0	0.203	10.70	215	10.53	218
70	0	0	0	0.203	10.84	212	10.68	215
80	0	0	0	0.203	10.98	209	10.82	212
90	0	0	0	0.203	11.12	206	10.96	209
100	0	0	0	0.203	11.26	204	11.10	207
110	0	0	0	0.203	11.40	202	11.24	204
120	0	0	0	0.203	11.53	199	11.37	202
130	0	0	0	0.203	11.67	197	11.51	200
167	0	0	0	0.203	12.15	189	12.00	192
212	0	0	0	0.203	12.71	181	12.57	183

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

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SHEET
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 300' RULING SPAN 111MPH LIGHT LOADING
#2 3-STRAND BARE COPPER TENSION 840 LBS

OH818.18

Stringing Sag Table Using Initial Sag							Ruling Span:	100.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-6
100.00	0-4	0-4	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0
125.00	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-6
150.00	0-9	0-10	0-11	1-0	1-2	1-4	1-6	1-8	1-11	2-2
175.00	1-1	1-2	1-3	1-5	1-7	1-10	2-0	2-4	2-7	2-11
200.00	1-4	1-6	1-8	1-10	2-1	2-4	2-8	3-0	3-5	3-10

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6	0-7	0-7
100.00	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-10	1-0	1-1
125.00	0-7	0-7	0-8	0-9	0-11	1-0	1-2	1-4	1-6	1-8
150.00	0-9	0-10	1-0	1-1	1-3	1-6	1-8	1-11	2-2	2-5
175.00	1-1	1-2	1-4	1-6	1-9	2-0	2-4	2-7	3-0	3-4
200.00	1-5	1-7	1-9	2-0	2-3	2-7	3-0	3-5	3-10	4-4

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 19 OF 21		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH818.19	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING #2 3-STRAND BARE COPPER TENSION 840 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-1	1-2	1-2
125.00	1-4	1-5	1-6	1-6	1-7	1-8	1-8	1-9	1-10	1-10
150.00	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8
175.00	2-7	2-9	2-10	3-0	3-1	3-3	3-4	3-5	3-6	3-8
200.00	3-5	3-7	3-9	3-11	4-1	4-2	4-4	4-6	4-7	4-9
225.00	4-4	4-6	4-9	4-11	5-1	5-4	5-6	5-8	5-10	6-0
250.00	5-4	5-7	5-10	6-1	6-4	6-7	6-9	7-0	7-3	7-5

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SHEET 20 OF 21	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH818.20
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING #2 3-STRAND BARE COPPER TENSION 840 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-6	2-6	2-7	2-7	2-8	2-8	2-8	2-9	2-9	2-10
175.00	3-5	3-5	3-6	3-6	3-7	3-8	3-8	3-9	3-9	3-10
200.00	4-5	4-6	4-7	4-7	4-8	4-9	4-10	4-10	4-11	5-0
225.00	5-7	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4
250.00	6-11	7-0	7-1	7-3	7-4	7-5	7-6	7-7	7-8	7-10
275.00	8-4	8-6	8-7	8-9	8-10	9-0	9-1	9-2	9-4	9-5
300.00	9-11	10-1	10-3	10-5	10-6	10-8	10-10	11-0	11-1	11-3
325.00	11-8	11-10	12-0	12-2	12-4	12-6	12-8	12-10	13-0	13-2
350.00	13-6	13-9	13-11	14-2	14-4	14-7	14-9	14-11	15-1	15-4
375.00	15-7	15-9	16-0	16-3	16-6	16-8	16-11	17-2	17-4	17-7

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-6	2-7	2-7	2-8	2-8	2-8	2-9	2-9	2-10	2-10
175.00	3-5	3-6	3-6	3-7	3-8	3-8	3-9	3-9	3-10	3-10
200.00	4-6	4-7	4-7	4-8	4-9	4-10	4-11	4-11	5-0	5-1
225.00	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5
250.00	7-0	7-1	7-3	7-4	7-5	7-6	7-7	7-9	7-10	7-11
275.00	8-6	8-7	8-9	8-10	9-0	9-1	9-3	9-4	9-6	9-7
300.00	10-1	10-3	10-5	10-7	10-8	10-10	11-0	11-1	11-3	11-5
325.00	11-10	12-1	12-3	12-5	12-7	12-9	12-11	13-1	13-3	13-5
350.00	13-9	14-0	14-2	14-4	14-7	14-9	15-0	15-2	15-4	15-6
375.00	15-10	16-1	16-3	16-6	16-9	16-11	17-2	17-5	17-7	17-10

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 21 OF 21		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH818.21	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING #2 3-STRAND BARE COPPER TENSION 840 LBS									

SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 1/0 BARE COPPER CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

G.O. 95 LIGHT LOADING CONDITION

1340 LB TENSION ----- 819.2

65 MPH LIGHT KNOWN LOCAL WIND CONDITION

1340 LB TENSION ----- 819.10

85 MPH LIGHT KNOWN LOCAL WIND CONDITION

1340 LB TENSION ----- 819.18

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

1340 LB TENSION ----- 819.26

REFERENCE

- a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805; SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 1 OF 33		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH819.1
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		1/0 BARE COPPER TABLE OF CONTENTS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.408	1.52	1340	1.52	1340*
25	0	0	0	0.326	1.28	1276	1.27	1284
30	0	0	0	0.326	1.33	1224	1.32	1238
40	0	0	0	0.326	1.45	1124	1.42	1148
50	0	0	0	0.326	1.58	1030	1.54	1062
60	0	0	0	0.326	1.73	944	1.66	981
70	0	0	0	0.326	1.88	865	1.80	905
80	0	0	0	0.326	2.05	795	1.95	836
90	0	0	0	0.326	2.22	733	2.11	774
100	0	0	0	0.326	2.40	679	2.27	718
110	0	0	0	0.326	2.58	631	2.44	668
120	0	0	0	0.326	2.76	590	2.61	624
130	0	0	0	0.326	2.94	554	2.79	585
167	0	0	0	0.326	3.58	456	3.41	478
212	0	0	0	0.326	4.29	381	4.12	396
* Design Condition								

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SHEET 2 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH819.2
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING 1/0 BARE COPPER TENSION 1340 LBS					

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.408	6.10	1340	6.10	1340*
25	0	0	0	0.326	5.51	1183	5.46	1195
30	0	0	0	0.326	5.65	1154	5.59	1167
40	0	0	0	0.326	5.94	1099	5.86	1114
50	0	0	0	0.326	6.22	1049	6.12	1066
60	0	0	0	0.326	6.51	1003	6.40	1021
70	0	0	0	0.326	6.80	960	6.67	979
80	0	0	0	0.326	7.08	922	6.94	940
90	0	0	0	0.326	7.37	886	7.22	904
100	0	0	0	0.326	7.65	854	7.49	872
110	0	0	0	0.326	7.93	824	7.76	841
120	0	0	0	0.326	8.21	796	8.03	813
130	0	0	0	0.326	8.48	770	8.30	787
167	0	0	0	0.326	9.45	691	9.26	705
212	0	0	0	0.326	10.57	619	10.37	630
* Design Condition								

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SHEET 3 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH819.3
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING 1/0 BARE COPPER TENSION 1340 LBS					

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.408	9.53	1340	9.53	1340*
25	0	0	0	0.326	8.84	1153	8.77	1163
30	0	0	0	0.326	9.01	1132	8.93	1143
40	0	0	0	0.326	9.34	1092	9.24	1104
50	0	0	0	0.326	9.68	1055	9.56	1067
60	0	0	0	0.326	10.01	1020	9.88	1033
70	0	0	0	0.326	10.33	988	10.20	1001
80	0	0	0	0.326	10.66	958	10.51	971
90	0	0	0	0.326	10.98	930	10.82	943
100	0	0	0	0.326	11.30	904	11.13	917
110	0	0	0	0.326	11.61	879	11.44	892
120	0	0	0	0.326	11.92	857	11.74	869
130	0	0	0	0.326	12.23	835	12.05	848
167	0	0	0	0.326	13.32	767	13.13	778
212	0	0	0	0.326	14.59	701	14.39	710

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 4 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH819.4
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING 1/0 BARE COPPER TENSION 1340 LBS					

Completely Revised

New Page

OH819.4

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-5
100.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9
125.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-1	1-3
150.00	0-8	0-9	0-9	0-10	1-0	1-1	1-2	1-4	1-7	1-9
175.00	0-11	1-0	1-1	1-2	1-4	1-5	1-8	1-10	2-1	2-5
200.00	1-2	1-3	1-5	1-6	1-8	1-11	2-2	2-5	2-9	3-1

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-5	0-5	0-6
100.00	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-11
125.00	0-6	0-6	0-7	0-8	0-8	0-10	0-11	1-1	1-3	1-5
150.00	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-6	1-9	2-0
175.00	0-11	1-0	1-1	1-3	1-5	1-7	1-10	2-1	2-4	2-8
200.00	1-2	1-4	1-5	1-7	1-10	2-1	2-4	2-8	3-1	3-6

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SHEET 5 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH819.5
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING 1/0 BARE COPPER TENSION 1340 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7
125.00	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	0-11
150.00	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-4
175.00	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-7	1-9	1-10
200.00	1-3	1-4	1-5	1-6	1-8	1-10	1-11	2-1	2-3	2-5
225.00	1-7	1-8	1-10	1-11	2-1	2-3	2-6	2-8	2-11	3-1
250.00	1-11	2-1	2-3	2-5	2-7	2-10	3-1	3-4	3-7	3-10

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8
125.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-10	0-11	1-0
150.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
175.00	0-11	1-0	1-1	1-3	1-4	1-5	1-7	1-8	1-10	2-0
200.00	1-3	1-4	1-5	1-7	1-9	1-11	2-1	2-3	2-5	2-7
225.00	1-7	1-8	1-10	2-0	2-2	2-5	2-7	2-10	3-0	3-3
250.00	1-11	2-1	2-3	2-6	2-8	2-11	3-2	3-6	3-9	4-0

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Indicates Latest Revision

Completely Revised



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Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

OH819.6

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-2
175.00	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7
200.00	1-3	1-4	1-5	1-6	1-8	1-9	1-10	1-11	2-0	2-1
225.00	1-7	1-9	1-10	1-11	2-1	2-2	2-4	2-5	2-7	2-8
250.00	2-0	2-1	2-3	2-5	2-6	2-8	2-10	3-0	3-2	3-4
275.00	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-8	3-10	4-0
300.00	2-11	3-1	3-3	3-5	3-8	3-10	4-1	4-4	4-7	4-9
325.00	3-5	3-7	3-10	4-1	4-4	4-7	4-10	5-1	5-4	5-7
350.00	3-11	4-2	4-5	4-8	5-0	5-3	5-7	5-11	6-2	6-6
375.00	4-6	4-9	5-1	5-5	5-9	6-1	6-5	6-9	7-1	7-5

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3
175.00	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
200.00	1-3	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-1	2-2
225.00	1-8	1-9	1-10	2-0	2-1	2-3	2-4	2-6	2-8	2-9
250.00	2-0	2-2	2-4	2-5	2-7	2-9	2-11	3-1	3-3	3-5
275.00	2-5	2-7	2-9	3-0	3-2	3-4	3-7	3-9	3-11	4-2
300.00	2-11	3-1	3-4	3-6	3-9	4-0	4-3	4-5	4-8	4-11
325.00	3-5	3-8	3-11	4-2	4-5	4-8	4-11	5-3	5-6	5-9
350.00	3-11	4-3	4-6	4-10	5-1	5-5	5-9	6-1	6-5	6-9
375.00	4-6	4-10	5-2	5-6	5-10	6-3	6-7	7-0	7-4	7-8

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SHEET 7 OF 33		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH819.7	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING 1/0 BARE COPPER TENSION 1340 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span:	400.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-10	1-10	1-11
225.00	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5
250.00	2-1	2-2	2-3	2-5	2-6	2-7	2-9	2-10	2-11	3-0
275.00	2-6	2-8	2-9	2-11	3-0	3-2	3-3	3-5	3-6	3-8
300.00	3-0	3-2	3-4	3-5	3-7	3-9	3-11	4-1	4-3	4-4
325.00	3-6	3-8	3-10	4-1	4-3	4-5	4-7	4-9	4-11	5-1
350.00	4-1	4-3	4-6	4-8	4-11	5-1	5-4	5-6	5-9	5-11
375.00	4-8	4-11	5-2	5-5	5-7	5-10	6-1	6-4	6-7	6-10
400.00	5-4	5-7	5-10	6-1	6-5	6-8	6-11	7-3	7-6	7-9
425.00	6-0	6-4	6-7	6-11	7-3	7-6	7-10	8-2	8-5	8-9
450.00	6-9	7-1	7-5	7-9	8-1	8-5	8-9	9-2	9-6	9-10
475.00	7-6	7-11	8-3	8-8	9-0	9-5	9-10	10-2	10-7	10-11
500.00	8-4	8-9	9-2	9-7	10-0	10-5	10-10	11-3	11-8	12-2

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-4	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-11	2-0
225.00	1-8	1-9	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6
250.00	2-1	2-2	2-4	2-5	2-7	2-8	2-9	2-11	3-0	3-1
275.00	2-6	2-8	2-10	2-11	3-1	3-3	3-4	3-6	3-7	3-9
300.00	3-0	3-2	3-4	3-6	3-8	3-10	4-0	4-2	4-4	4-6
325.00	3-7	3-9	3-11	4-1	4-4	4-6	4-8	4-10	5-1	5-3
350.00	4-1	4-4	4-7	4-9	5-0	5-2	5-5	5-8	5-10	6-1
375.00	4-9	5-0	5-3	5-6	5-9	6-0	6-3	6-6	6-9	7-0
400.00	5-5	5-8	5-11	6-3	6-6	6-10	7-1	7-4	7-8	7-11
425.00	6-1	6-5	6-8	7-0	7-4	7-8	8-0	8-4	8-8	8-11
450.00	6-10	7-2	7-6	7-11	8-3	8-7	9-0	9-4	9-8	10-0
475.00	7-7	8-0	8-4	8-9	9-2	9-7	10-0	10-5	10-9	11-2
500.00	8-5	8-10	9-3	9-9	10-2	10-7	11-1	11-6	11-11	12-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 8 OF 33		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH819.8	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING 1/0 BARE COPPER TENSION 1340 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.465	1.73	1340	1.73	1340*
20	0	0	0	0.326	1.07	1525	1.07	1525
30	0	0	0	0.326	1.14	1428	1.14	1428
40	0	0	0	0.326	1.22	1331	1.22	1332
50	0	0	0	0.326	1.33	1225	1.32	1239
60	0	0	0	0.326	1.45	1125	1.42	1149
70	0	0	0	0.326	1.58	1031	1.53	1063
80	0	0	0	0.326	1.73	945	1.66	982
90	0	0	0	0.326	1.88	866	1.80	906
100	0	0	0	0.326	2.05	796	1.95	837
110	0	0	0	0.326	2.22	734	2.11	774
120	0	0	0	0.326	2.40	679	2.27	718
130	0	0	0	0.326	2.58	632	2.44	668
167	0	0	0	0.326	3.24	504	3.08	530
212	0	0	0	0.326	3.98	410	3.82	428
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 10 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH819.10
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING 1/0 BARE COPPER TENSION 1340 LBS					

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.465	6.94	1340	6.94	1340*
20	0	0	0	0.326	5.23	1248	5.20	1255
30	0	0	0	0.326	5.50	1186	5.45	1197
40	0	0	0	0.326	5.78	1128	5.71	1142
50	0	0	0	0.326	6.07	1076	5.98	1092
60	0	0	0	0.326	6.35	1027	6.25	1044
70	0	0	0	0.326	6.64	983	6.52	1001
80	0	0	0	0.326	6.93	942	6.80	961
90	0	0	0	0.326	7.21	905	7.07	923
100	0	0	0	0.326	7.50	871	7.34	889
110	0	0	0	0.326	7.78	839	7.62	857
120	0	0	0	0.326	8.06	811	7.89	828
130	0	0	0	0.326	8.33	784	8.16	801
167	0	0	0	0.326	9.31	701	9.12	716
212	0	0	0	0.326	10.44	626	10.24	638


* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.465	10.86	1340	10.86	1340*
20	0	0	0	0.326	8.87	1150	8.79	1160
30	0	0	0	0.326	9.20	1109	9.11	1120
40	0	0	0	0.326	9.53	1070	9.43	1082
50	0	0	0	0.326	9.86	1034	9.74	1047
60	0	0	0	0.326	10.19	1001	10.06	1014
70	0	0	0	0.326	10.52	970	10.38	984
80	0	0	0	0.326	10.84	942	10.69	955
90	0	0	0	0.326	11.16	915	11.00	928
100	0	0	0	0.326	11.48	890	11.31	903
110	0	0	0	0.326	11.79	866	11.61	879
120	0	0	0	0.326	12.09	844	11.92	857
130	0	0	0	0.326	12.40	824	12.22	836
167	0	0	0	0.326	13.49	757	13.29	769
212	0	0	0	0.326	14.74	693	14.54	703
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>12 OF 33</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH819.12</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING</p> <p>1/0 BARE COPPER TENSION 1340 LBS</p> </div>				

Completely Revised

New Page

OH819.12

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1/0 BARE COPPER TENSION 1340 LBS

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4
100.00	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7
125.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11
150.00	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2	1-4
175.00	0-9	0-10	0-11	0-11	1-0	1-2	1-3	1-5	1-7	1-9
200.00	1-0	1-1	1-2	1-3	1-4	1-6	1-8	1-10	2-1	2-4

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4
100.00	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8
125.00	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	1-0
150.00	0-7	0-7	0-8	0-8	0-9	0-10	1-0	1-1	1-3	1-5
175.00	0-9	0-10	0-11	0-11	1-1	1-2	1-4	1-6	1-8	2-0
200.00	1-0	1-1	1-2	1-3	1-5	1-6	1-9	1-11	2-3	2-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 13 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH819.13
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING 1/0 BARE COPPER TENSION 1340 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6
125.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10
150.00	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-2
175.00	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-7
200.00	1-1	1-2	1-3	1-4	1-5	1-6	1-8	1-10	1-11	2-1
225.00	1-4	1-5	1-7	1-8	1-10	1-11	2-1	2-3	2-6	2-8
250.00	1-8	1-9	1-11	2-1	2-3	2-5	2-7	2-10	3-1	3-3

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<div style="text-align: center;"> <p>SHEET</p> <p>14 OF 33</p> </div>	Indicates Latest Revision		Completely Revised	<input checked="" type="checkbox"/> New Page	Information Removed	<div style="text-align: center;"> <p>OH819.14</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING</p> <p>1/0 BARE COPPER TENSION 1340 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-8	0-8	0-9	0-10	0-10	0-11	0-1	1 1-	0 1-1	1-1
175.00	0-11	0-11	1-0	1-1	1-2	1-3	1-3	1-4	1-5	1-6
200.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-0
225.00	1-6	1-7	1-8	1-9	1-11	2-0	2-2	2-3	2-5	2-6
250.00	1-10	1-11	2-1	2-2	2-4	2-6	2-8	2-9	2-11	3-1
275.00	2-3	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-7	3-9
300.00	2-8	2-10	3-0	3-2	3-4	3-7	3-9	4-0	4-3	4-5
325.00	3-1	3-4	3-6	3-9	3-11	4-2	4-5	4-8	5-0	5-3
350.00	3-7	3-10	4-1	4-4	4-7	4-10	5-2	5-5	5-9	6-1
375.00	4-2	4-5	4-8	4-11	5-3	5-7	5-11	6-3	6-7	7-0

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-2
175.00	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7
200.00	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-10	1-11	2-1
225.00	1-6	1-7	1-8	1-10	1-11	2-1	2-2	2-4	2-5	2-7
250.00	1-10	1-11	2-1	2-3	2-5	2-7	2-8	2-10	3-0	3-2
275.00	2-3	2-4	2-6	2-8	2-11	3-1	3-3	3-6	3-8	3-10
300.00	2-8	2-10	3-0	3-3	3-5	3-8	3-11	4-2	4-4	4-7
325.00	3-1	3-4	3-6	3-9	4-0	4-4	4-7	4-10	5-1	5-5
350.00	3-7	3-10	4-1	4-5	4-8	5-0	5-4	5-7	5-11	6-3
375.00	4-2	4-5	4-9	5-0	5-4	5-9	6-1	6-5	6-10	7-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>15 OF 33</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH819.15
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING 1/0 BARE COPPER TENSION 1340 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span:	400.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-4	1-4	1-5	1-6	1-7	1-8	1-8	1-9	1-10	1-11
225.00	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5
250.00	2-0	2-2	2-3	2-4	2-5	2-7	2-8	2-9	2-10	3-0
275.00	2-5	2-7	2-8	2-10	2-11	3-1	3-3	3-4	3-6	3-7
300.00	2-11	3-1	3-3	3-4	3-6	3-8	3-10	4-0	4-2	4-3
325.00	3-5	3-7	3-9	3-11	4-1	4-4	4-6	4-8	4-10	5-0
350.00	4-0	4-2	4-4	4-7	4-9	5-0	5-2	5-5	5-7	5-10
375.00	4-7	4-9	5-0	5-3	5-6	5-9	6-0	6-3	6-5	6-8
400.00	5-2	5-5	5-9	6-0	6-3	6-6	6-10	7-1	7-4	7-7
425.00	5-10	6-2	6-5	6-9	7-1	7-4	7-8	8-0	8-3	8-7
450.00	6-7	6-11	7-3	7-7	7-11	8-3	8-7	8-11	9-4	9-8
475.00	7-4	7-8	8-1	8-5	8-10	9-2	9-7	10-0	10-4	10-9
500.00	8-1	8-6	8-11	9-4	9-9	10-2	10-7	11-1	11-6	11-11

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-4	1-5	1-5	1-6	1-7	1-8	1-9	1-10	1-10	1-11
225.00	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-6
250.00	2-1	2-2	2-3	2-4	2-6	2-7	2-8	2-10	2-11	3-0
275.00	2-6	2-7	2-9	2-10	3-0	3-2	3-3	3-5	3-7	3-8
300.00	2-11	3-1	3-3	3-5	3-7	3-9	3-11	4-1	4-3	4-4
325.00	3-5	3-8	3-10	4-0	4-2	4-5	4-7	4-9	4-11	5-2
350.00	4-0	4-3	4-5	4-8	4-10	5-1	5-4	5-6	5-9	5-11
375.00	4-7	4-10	5-1	5-4	5-7	5-10	6-1	6-4	6-7	6-10
400.00	5-3	5-6	5-9	6-1	6-4	6-8	6-11	7-3	7-6	7-9
425.00	5-11	6-3	6-6	6-10	7-2	7-6	7-10	8-2	8-6	8-9
450.00	6-7	7-0	7-4	7-8	8-1	8-5	8-9	9-2	9-6	9-10
475.00	7-4	7-9	8-2	8-7	9-0	9-4	9-9	10-2	10-7	11-0
500.00	8-2	8-7	9-0	9-6	9-11	10-5	10-10	11-3	11-9	12-2

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
275.00	2-8	2-9	2-10	2-11	3-1	3-2	3-3	3-4	3-5	3-6
300.00	3-2	3-3	3-5	3-6	3-7	3-9	3-10	4-0	4-1	4-2
325.00	3-9	3-10	4-0	4-1	4-3	4-5	4-6	4-8	4-9	4-11
350.00	4-4	4-6	4-7	4-9	4-11	5-1	5-3	5-5	5-6	5-8
375.00	4-11	5-1	5-4	5-6	5-8	5-10	6-0	6-2	6-4	6-6
400.00	5-8	5-10	6-0	6-3	6-5	6-8	6-10	7-0	7-3	7-5
425.00	6-4	6-7	6-10	7-0	7-3	7-6	7-9	7-11	8-2	8-5
450.00	7-1	7-5	7-8	7-11	8-2	8-5	8-8	8-11	9-2	9-5
475.00	7-11	8-3	8-6	8-10	9-1	9-4	9-8	9-11	10-2	10-6
500.00	8-9	9-1	9-5	9-9	10-1	10-5	10-8	11-0	11-4	11-7
525.00	9-8	10-1	10-5	10-9	11-1	11-5	11-9	12-2	12-6	12-10
550.00	10-8	11-0	11-5	11-9	12-2	12-7	12-11	13-4	13-8	14-1
575.00	11-8	12-1	12-6	12-11	13-4	13-9	14-2	14-7	15-0	15-4
600.00	12-8	13-1	13-7	14-0	14-6	14-11	15-5	15-10	16-3	16-9
625.00	13-9	14-3	14-9	15-3	15-9	16-3	16-8	17-2	17-8	18-2

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-9	2-10	2-11
275.00	2-8	2-9	2-11	3-0	3-1	3-2	3-3	3-4	3-6	3-7
300.00	3-2	3-4	3-5	3-7	3-8	3-9	3-11	4-0	4-2	4-3
325.00	3-9	3-11	4-0	4-2	4-4	4-5	4-7	4-9	4-10	5-0
350.00	4-4	4-6	4-8	4-10	5-0	5-2	5-4	5-6	5-7	5-9
375.00	5-0	5-2	5-4	5-7	5-9	5-11	6-1	6-3	6-5	6-8
400.00	5-8	5-11	6-1	6-4	6-6	6-9	6-11	7-2	7-4	7-6
425.00	6-5	6-8	6-11	7-2	7-4	7-7	7-10	8-1	8-3	8-6
450.00	7-2	7-5	7-9	8-0	8-3	8-6	8-9	9-0	9-4	9-7
475.00	8-0	8-4	8-7	8-11	9-2	9-6	9-9	10-1	10-4	10-8
500.00	8-10	9-2	9-6	9-10	10-2	10-6	10-10	11-2	11-6	11-9
525.00	9-9	10-2	10-6	10-11	11-3	11-7	11-11	12-4	12-8	13-0
550.00	10-9	11-2	11-6	11-11	12-4	12-9	13-1	13-6	13-11	14-3
575.00	11-9	12-2	12-7	13-1	13-6	13-11	14-4	14-9	15-2	15-7
600.00	12-9	13-3	13-9	14-2	14-8	15-2	15-7	16-1	16-6	17-0
625.00	13-10	14-5	14-11	15-5	15-11	16-5	16-11	17-5	17-11	18-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 17 OF 33		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH819.17	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING 1/0 BARE COPPER TENSION 1340 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.654	2.44	1340	2.44	1340*
20	0	0	0	0.326	1.23	1320	1.23	1323
30	0	0	0	0.326	1.34	1215	1.33	1230
40	0	0	0	0.326	1.46	1115	1.43	1140
50	0	0	0	0.326	1.59	1022	1.55	1055
60	0	0	0	0.326	1.74	937	1.67	974
70	0	0	0	0.326	1.90	859	1.81	899
80	0	0	0	0.326	2.07	789	1.96	831
90	0	0	0	0.326	2.24	728	2.12	769
100	0	0	0	0.326	2.42	674	2.29	713
110	0	0	0	0.326	2.60	628	2.46	664
120	0	0	0	0.326	2.78	587	2.63	620
130	0	0	0	0.326	2.96	551	2.80	582
167	0	0	0	0.326	3.60	454	3.43	476
212	0	0	0	0.326	4.30	380	4.14	395
* Design Condition								

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 18 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH819.18
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING 1/0 BARE COPPER TENSION 1340 LBS					

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.654	5.50	1340	5.50	1340*
20	0	0	0	0.326	3.60	1019	3.52	1043
30	0	0	0	0.326	3.83	959	3.73	984
40	0	0	0	0.326	4.06	904	3.95	930
50	0	0	0	0.326	4.30	854	4.17	881
60	0	0	0	0.326	4.53	809	4.39	836
70	0	0	0	0.326	4.77	769	4.62	795
80	0	0	0	0.326	5.01	733	4.85	758
90	0	0	0	0.326	5.24	701	5.07	724
100	0	0	0	0.326	5.47	671	5.30	693
110	0	0	0	0.326	5.70	645	5.52	665
120	0	0	0	0.326	5.92	621	5.74	640
130	0	0	0	0.326	6.14	598	5.95	617
167	0	0	0	0.326	6.91	532	6.73	546
212	0	0	0	0.326	7.79	472	7.60	484
* Design Condition								

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.654	9.79	1340	9.79	1340*
20	0	0	0	0.326	7.62	857	7.46	875
30	0	0	0	0.326	7.90	827	7.73	844
40	0	0	0	0.326	8.17	799	8.00	816
50	0	0	0	0.326	8.45	773	8.27	790
60	0	0	0	0.326	8.72	749	8.53	765
70	0	0	0	0.326	8.98	727	8.80	743
80	0	0	0	0.326	9.24	707	9.05	722
90	0	0	0	0.326	9.50	688	9.31	702
100	0	0	0	0.326	9.76	670	9.56	683
110	0	0	0	0.326	10.00	653	9.81	666
120	0	0	0	0.326	10.25	638	10.05	650
130	0	0	0	0.326	10.49	623	10.29	635
167	0	0	0	0.326	11.36	576	11.16	586
212	0	0	0	0.326	12.35	530	12.15	539
* Design Condition								

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					


SHEET 19 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH819.19
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING 1/0 BARE COPPER TENSION 1340 LBS					

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	0.654	15.32	1340	15.32	1340*
20	0	0	0	0.326	13.06	782	12.86	794
30	0	0	0	0.326	13.35	765	13.15	777
40	0	0	0	0.326	13.63	749	13.44	760
50	0	0	0	0.326	13.92	734	13.72	745
60	0	0	0	0.326	14.20	720	14.00	730
70	0	0	0	0.326	14.47	706	14.27	716
80	0	0	0	0.326	14.75	693	14.54	703
90	0	0	0	0.326	15.02	681	14.81	690
100	0	0	0	0.326	15.28	669	15.08	678
110	0	0	0	0.326	15.54	658	15.34	667
120	0	0	0	0.326	15.80	647	15.60	656
130	0	0	0	0.326	16.06	637	15.85	645
167	0	0	0	0.326	16.98	603	16.77	610
212	0	0	0	0.326	18.05	567	17.84	574

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>20 OF 33</p> </div>	Indicates Latest Revision		Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH819.20</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>1/0 BARE COPPER TENSION 1340 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4
100.00	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-7
125.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	1-0
150.00	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-5
175.00	0-10	0-10	0-11	1-0	1-1	1-2	1-4	1-6	1-8	1-11
200.00	1-0	1-1	1-2	1-4	1-5	1-7	1-9	1-11	2-2	2-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-4	0-4	0-5
100.00	0-3	0-3	0-4	0-4	0-4	0-5	0-6	0-6	0-7	0-8
125.00	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-1
150.00	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-7
175.00	0-10	0-10	0-11	1-0	1-1	1-3	1-5	1-7	1-10	2-1
200.00	1-0	1-1	1-2	1-4	1-5	1-8	1-10	2-1	2-5	2-9

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 21 OF 33		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH819.21	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING 1/0 BARE COPPER TENSION 1340 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7
125.00	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0
150.00	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-5
175.00	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-7	1-9	1-11
200.00	1-3	1-4	1-5	1-7	1-8	1-10	2-0	2-1	2-3	2-5
225.00	1-7	1-8	1-10	1-11	2-1	2-4	2-6	2-8	2-11	3-1
250.00	1-11	2-1	2-3	2-5	2-7	2-10	3-1	3-4	3-7	3-10

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8
125.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-10	0-11	1-0
150.00	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-6
175.00	0-11	1-0	1-1	1-3	1-4	1-5	1-7	1-9	1-10	2-0
200.00	1-3	1-4	1-6	1-7	1-9	1-11	2-1	2-3	2-5	2-7
225.00	1-7	1-8	1-10	2-0	2-2	2-5	2-7	2-10	3-1	3-3
250.00	1-11	2-1	2-3	2-6	2-9	3-0	3-3	3-6	3-9	4-1

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 22 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH819.22
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING 1/0 BARE COPPER TENSION 1340 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-11	0-11	1-0	1-0	1-1	1-2	1-3	1-3	1-4	1-5
175.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11
200.00	1-7	1-8	1-9	1-10	1-11	2-1	2-2	2-3	2-4	2-5
225.00	2-0	2-1	2-3	2-4	2-6	2-7	2-9	2-10	3-0	3-1
250.00	2-5	2-7	2-9	2-11	3-1	3-2	3-4	3-6	3-8	3-10
275.00	2-11	3-2	3-4	3-6	3-8	3-11	4-1	4-3	4-5	4-8
300.00	3-6	3-9	3-11	4-2	4-5	4-7	4-10	5-1	5-4	5-6
325.00	4-2	4-5	4-8	4-11	5-2	5-5	5-8	5-11	6-3	6-6
350.00	4-9	5-1	5-4	5-8	6-0	6-3	6-7	6-11	7-3	7-6
375.00	5-6	5-10	6-2	6-6	6-10	7-3	7-7	7-11	8-3	8-7

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-11	0-11	1-0	1-1	1-2	1-2	1-3	1-4	1-4	1-5
175.00	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-9	1-10	1-11
200.00	1-7	1-8	1-10	1-11	2-0	2-1	2-3	2-4	2-5	2-6
225.00	2-0	2-2	2-3	2-5	2-7	2-8	2-10	2-11	3-1	3-2
250.00	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-10	3-11
275.00	3-0	3-3	3-5	3-7	3-10	4-0	4-2	4-5	4-7	4-9
300.00	3-7	3-10	4-1	4-4	4-6	4-9	5-0	5-3	5-6	5-8
325.00	4-3	4-6	4-9	5-1	5-4	5-7	5-11	6-2	6-5	6-8
350.00	4-11	5-3	5-6	5-10	6-2	6-6	6-10	7-2	7-5	7-9
375.00	5-8	6-0	6-4	6-9	7-1	7-5	7-10	8-2	8-7	8-11

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 23 OF 33		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH819.23	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING 1/0 BARE COPPER TENSION 1340 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span:		400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-10	1-11	2-0	2-1	2-2	2-2	2-3	2-4	2-5	2-5
225.00	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-1
250.00	2-11	3-0	3-2	3-3	3-4	3-5	3-6	3-8	3-9	3-10
275.00	3-6	3-8	3-9	3-11	4-0	4-2	4-3	4-5	4-6	4-8
300.00	4-2	4-4	4-6	4-8	4-10	4-11	5-1	5-3	5-5	5-6
325.00	4-11	5-1	5-3	5-6	5-8	5-10	6-0	6-2	6-4	6-6
350.00	5-9	5-11	6-2	6-4	6-6	6-9	6-11	7-2	7-4	7-6
375.00	6-7	6-10	7-0	7-3	7-6	7-9	7-11	8-2	8-5	8-7
400.00	7-6	7-9	8-0	8-3	8-6	8-10	9-1	9-4	9-7	9-10
425.00	8-5	8-9	9-0	9-4	9-8	9-11	10-3	10-6	10-10	11-1
450.00	9-5	9-9	10-2	10-6	10-10	11-2	11-6	11-9	12-1	12-5
475.00	10-6	10-11	11-3	11-8	12-0	12-5	12-9	13-2	13-6	13-10
500.00	11-8	12-1	12-6	12-11	13-4	13-9	14-2	14-7	14-11	15-4


Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1-11	2-0	2-1	2-1	2-2	2-3	2-4	2-4	2-5	2-6
225.00	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-2
250.00	3-0	3-1	3-2	3-4	3-5	3-6	3-7	3-9	3-10	3-11
275.00	3-7	3-9	3-10	4-0	4-1	4-3	4-4	4-6	4-7	4-9
300.00	4-3	4-5	4-7	4-9	4-11	5-1	5-2	5-4	5-6	5-8
325.00	5-0	5-3	5-5	5-7	5-9	5-11	6-1	6-3	6-5	6-7
350.00	5-10	6-1	6-3	6-6	6-8	6-11	7-1	7-3	7-6	7-8
375.00	6-8	6-11	7-2	7-5	7-8	7-11	8-1	8-4	8-7	8-10
400.00	7-7	7-11	8-2	8-5	8-9	9-0	9-3	9-6	9-9	10-0
425.00	8-7	8-11	9-3	9-6	9-10	10-2	10-5	10-9	11-0	11-4
450.00	9-8	10-0	10-4	10-8	11-0	11-4	11-8	12-0	12-4	12-8
475.00	10-9	11-2	11-6	11-11	12-4	12-8	13-0	13-5	13-9	14-1
500.00	11-11	12-4	12-9	13-2	13-8	14-0	14-5	14-10	15-3	15-8

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	3-3	3-3	3-4	3-5	3-6	3-7	3-8	3-8	3-9	3-10
275.00	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
300.00	4-8	4-9	4-10	4-11	5-0	5-2	5-3	5-4	5-5	5-6
325.00	5-5	5-7	5-8	5-10	5-11	6-0	6-2	6-3	6-4	6-6
350.00	6-4	6-5	6-7	6-9	6-10	7-0	7-1	7-3	7-5	7-6
375.00	7-3	7-5	7-7	7-9	7-10	8-0	8-2	8-4	8-6	8-7
400.00	8-3	8-5	8-7	8-9	8-11	9-2	9-4	9-6	9-8	9-10
425.00	9-4	9-6	9-8	9-11	10-1	10-4	10-6	10-8	10-11	11-1
450.00	10-5	10-8	10-11	11-1	11-4	11-7	11-9	12-0	12-3	12-5
475.00	11-7	11-10	12-2	12-5	12-8	12-11	13-1	13-4	13-7	13-10
500.00	12-10	13-2	13-5	13-9	14-0	14-3	14-7	14-10	15-1	15-4
525.00	14-2	14-6	14-10	15-2	15-5	15-9	16-0	16-4	16-7	16-11
550.00	15-7	15-11	16-3	16-7	16-11	17-3	17-7	17-11	18-3	18-7
575.00	17-0	17-5	17-9	18-2	18-6	18-11	19-3	19-7	19-11	20-4
600.00	18-6	18-11	19-4	19-9	20-2	20-7	20-11	21-4	21-9	22-1
625.00	20-1	20-7	21-0	21-5	21-11	22-4	22-9	23-2	23-7	24-0

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<div style="text-align: center;"> <p>SHEET</p> <p>25 OF 33</p> </div>	Indicates Latest Revision		Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH819.25</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>1/0 BARE COPPER TENSION 1340 LBS</p> </div>					

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	1.02	3.81	1340	3.81	1340*
20	0	0	0	0.326	2.08	786	1.97	827
30	0	0	0	0.326	2.25	725	2.13	765
40	0	0	0	0.326	2.43	672	2.30	710
50	0	0	0	0.326	2.61	625	2.47	661
60	0	0	0	0.326	2.79	585	2.64	618
70	0	0	0	0.326	2.97	550	2.81	580
80	0	0	0	0.326	3.15	519	2.98	547
90	0	0	0	0.326	3.32	492	3.15	517
100	0	0	0	0.326	3.49	468	3.32	491
110	0	0	0	0.326	3.65	447	3.49	468
120	0	0	0	0.326	3.82	428	3.65	447
130	0	0	0	0.326	3.97	411	3.81	429
167	0	0	0	0.326	4.53	361	4.36	374
212	0	0	0	0.326	5.14	318	4.98	328
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>26 OF 33</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH819.26</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING</p> <p>1/0 BARE COPPER TENSION 1340 LBS</p> </div>						

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	1.02	15.31	1340	15.31	1340*
20	0	0	0	0.326	13.43	488	13.24	495
30	0	0	0	0.326	13.63	481	13.43	488
40	0	0	0	0.326	13.82	474	13.63	481
50	0	0	0	0.326	14.02	467	13.82	474
60	0	0	0	0.326	14.21	461	14.02	467
70	0	0	0	0.326	14.40	455	14.21	461
80	0	0	0	0.326	14.58	449	14.39	455
90	0	0	0	0.326	14.77	444	14.58	450
100	0	0	0	0.326	14.95	438	14.76	444
110	0	0	0	0.326	15.13	433	14.95	439
120	0	0	0	0.326	15.31	428	15.13	434
130	0	0	0	0.326	15.49	423	15.30	429
167	0	0	0	0.326	16.13	407	15.95	411
212	0	0	0	0.326	16.88	389	16.70	393
* Design Condition								

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 27 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH819.27
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING 1/0 BARE COPPER TENSION 1340 LBS					

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	1.02	24.00	1340	24.00	1340*
20	0	0	0	0.326	22.13	464	21.93	468
30	0	0	0	0.326	22.32	460	22.13	464
40	0	0	0	0.326	22.51	456	22.32	460
50	0	0	0	0.326	22.71	452	22.51	456
60	0	0	0	0.326	22.89	449	22.70	452
70	0	0	0	0.326	23.08	445	22.89	449
80	0	0	0	0.326	23.27	442	23.08	445
90	0	0	0	0.326	23.45	438	23.26	442
100	0	0	0	0.326	23.64	435	23.45	438
110	0	0	0	0.326	23.82	432	23.63	435
120	0	0	0	0.326	24.00	428	23.81	432
130	0	0	0	0.326	24.18	425	23.99	429
167	0	0	0	0.326	24.84	414	24.65	417
212	0	0	0	0.326	25.61	402	25.43	405

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>28 OF 33</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH819.28</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING</p> <p>1/0 BARE COPPER TENSION 1340 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-5
100.00	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9
125.00	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-2
150.00	0-8	0-8	0-9	0-10	0-11	1-0	1-2	1-4	1-6	1-8
175.00	0-11	0-11	1-0	1-2	1-3	1-5	1-7	1-9	2-0	2-3
200.00	1-2	1-3	1-4	1-6	1-8	1-10	2-1	2-4	2-8	3-0

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6
100.00	0-3	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-10
125.00	0-5	0-6	0-6	0-7	0-8	0-9	0-11	1-0	1-2	1-4
150.00	0-8	0-8	0-9	0-10	1-0	1-1	1-3	1-5	1-8	1-11
175.00	0-11	1-0	1-1	1-2	1-4	1-6	1-9	2-0	2-3	2-7
200.00	1-2	1-3	1-5	1-6	1-9	2-0	2-3	2-7	2-11	3-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 29 OF 33		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH819.29	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING 1/0 BARE COPPER TENSION 1340 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10
125.00	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-4
150.00	1-1	1-2	1-3	1-5	1-6	1-7	1-8	1-9	1-10	2-0
175.00	1-6	1-8	1-9	1-11	2-0	2-2	2-3	2-5	2-7	2-8
200.00	2-0	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6
225.00	2-6	2-8	2-11	3-1	3-4	3-7	3-9	4-0	4-2	4-5
250.00	3-1	3-4	3-7	3-10	4-1	4-5	4-8	4-11	5-2	5-5

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11
125.00	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-4	1-5
150.00	1-2	1-3	1-4	1-6	1-7	1-8	1-9	1-10	2-0	2-1
175.00	1-7	1-9	1-10	2-0	2-2	2-3	2-5	2-6	2-8	2-10
200.00	2-1	2-3	2-5	2-7	2-9	3-0	3-2	3-4	3-6	3-8
225.00	2-8	2-10	3-1	3-4	3-6	3-9	4-0	4-2	4-5	4-8
250.00	3-3	3-6	3-10	4-1	4-4	4-8	4-11	5-2	5-5	5-9

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 30 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH819.30
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING 1/0 BARE COPPER TENSION 1340 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-8	1-8	1-9	1-9	1-10	1-11	1-11	2-0	2-0	2-1
175.00	2-3	2-3	2-4	2-5	2-6	2-7	2-7	2-8	2-9	2-10
200.00	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8
225.00	3-8	3-9	3-11	4-0	4-1	4-3	4-4	4-5	4-6	4-8
250.00	4-6	4-8	4-10	4-11	5-1	5-3	5-4	5-6	5-7	5-9
275.00	5-6	5-8	5-10	6-0	6-2	6-4	6-6	6-7	6-9	6-11
300.00	6-6	6-9	6-11	7-1	7-4	7-6	7-8	7-11	8-1	8-3
325.00	7-8	7-11	8-2	8-4	8-7	8-10	9-0	9-3	9-6	9-8
350.00	8-10	9-2	9-5	9-8	10-0	10-3	10-6	10-9	11-0	11-3
375.00	10-2	10-6	10-10	11-2	11-5	11-9	12-0	12-4	12-7	12-11

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-8	1-9	1-9	1-10	1-10	1-11	2-0	2-0	2-1	2-1
175.00	2-3	2-4	2-5	2-6	2-7	2-7	2-8	2-9	2-10	2-10
200.00	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
225.00	3-9	3-11	4-0	4-1	4-3	4-4	4-5	4-6	4-8	4-9
250.00	4-8	4-10	4-11	5-1	5-2	5-4	5-6	5-7	5-9	5-10
275.00	5-8	5-10	6-0	6-2	6-4	6-6	6-7	6-9	6-11	7-1
300.00	6-8	6-11	7-1	7-4	7-6	7-8	7-11	8-1	8-3	8-5
325.00	7-10	8-1	8-4	8-7	8-10	9-0	9-3	9-6	9-8	9-11
350.00	9-2	9-5	9-8	9-11	10-3	10-6	10-9	11-0	11-3	11-6
375.00	10-6	10-10	11-1	11-5	11-9	12-0	12-4	12-7	12-11	13-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 31 OF 33		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH819.31
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING 1/0 BARE COPPER TENSION 1340 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span:	400.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-4	3-4	3-5	3-5	3-6	3-7	3-7	3-8	3-8	3-9
225.00	4-2	4-3	4-4	4-4	4-5	4-6	4-7	4-7	4-8	4-9
250.00	5-2	5-3	5-4	5-5	5-6	5-7	5-7	5-8	5-9	5-10
275.00	6-3	6-4	6-5	6-6	6-7	6-9	6-10	6-11	7-0	7-1
300.00	7-5	7-7	7-8	7-9	7-11	8-0	8-1	8-2	8-4	8-5
325.00	8-9	8-10	9-0	9-1	9-3	9-4	9-6	9-7	9-9	9-10
350.00	10-2	10-3	10-5	10-7	10-9	10-10	11-0	11-2	11-4	11-5
375.00	11-8	11-10	12-0	12-2	12-4	12-6	12-8	12-10	13-0	13-2
400.00	13-3	13-5	13-8	13-10	14-0	14-2	14-5	14-7	14-9	14-11
425.00	14-11	15-2	15-5	15-7	15-10	16-0	16-3	16-6	16-8	16-11
450.00	16-9	17-0	17-3	17-6	17-9	18-0	18-3	18-6	18-8	18-11
475.00	18-8	18-11	19-3	19-6	19-9	20-1	20-4	20-7	20-10	21-1
500.00	20-8	21-0	21-4	21-7	21-11	22-3	22-6	22-10	23-1	23-5

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-4	3-5	3-5	3-6	3-7	3-7	3-8	3-8	3-9	3-9
225.00	4-3	4-4	4-4	4-5	4-6	4-7	4-7	4-8	4-9	4-9
250.00	5-3	5-4	5-5	5-6	5-7	5-7	5-8	5-9	5-10	5-11
275.00	6-4	6-5	6-6	6-7	6-9	6-10	6-11	7-0	7-1	7-2
300.00	7-7	7-8	7-9	7-11	8-0	8-1	8-2	8-4	8-5	8-6
325.00	8-10	9-0	9-1	9-3	9-4	9-6	9-7	9-9	9-10	10-0
350.00	10-3	10-5	10-7	10-9	10-10	11-0	11-2	11-4	11-5	11-7
375.00	11-10	12-0	12-2	12-4	12-6	12-8	12-10	13-0	13-2	13-4
400.00	13-5	13-8	13-10	14-0	14-3	14-5	14-7	14-9	14-11	15-2
425.00	15-2	15-5	15-7	15-10	16-1	16-3	16-6	16-8	16-11	17-1
450.00	17-0	17-3	17-6	17-9	18-0	18-3	18-6	18-8	18-11	19-2
475.00	18-11	19-3	19-6	19-9	20-1	20-4	20-7	20-10	21-1	21-4
500.00	21-0	21-4	21-7	21-11	22-3	22-6	22-10	23-1	23-5	23-8

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C						F						
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 32 OF 33		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH819.32
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING 1/0 BARE COPPER TENSION 1340 LBS										

SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 4/0 BARE COPPER CONDUCTOR.

CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

G.O. 95 LIGHT LOADING CONDITION

2424 LB TENSION ----- 820.2

65 MPH LIGHT KNOWN LOCAL WIND CONDITION

2424 LB TENSION ----- 820.10

85 MPH LIGHT KNOWN LOCAL WIND CONDITION

2424 LB TENSION ----- 820.18

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

2424 LB TENSION ----- 820.26

REFERENCE

- a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805; SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 1 OF 33		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH820.1
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		4/0 BARE COPPER TABLE OF CONTENTS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.741	1.53	2424	1.53	2424*
25	0	0	0	0.654	1.39	2350	1.39	2358
30	0	0	0	0.654	1.45	2251	1.44	2269
40	0	0	0	0.654	1.59	2063	1.56	2099
50	0	0	0	0.654	1.73	1890	1.69	1938
60	0	0	0	0.654	1.89	1733	1.83	1789
70	0	0	0	0.654	2.05	1593	1.98	1653
80	0	0	0	0.654	2.23	1469	2.14	1530
90	0	0	0	0.654	2.41	1360	2.30	1420
100	0	0	0	0.654	2.59	1265	2.47	1323
110	0	0	0	0.654	2.77	1183	2.65	1236
120	0	0	0	0.654	2.95	1111	2.82	1161
130	0	0	0	0.654	3.12	1048	2.99	1094
167	0	0	0	0.654	3.75	874	3.61	907
212	0	0	0	0.654	4.44	739	4.30	762
* Design Condition								

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 2 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH820.2
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING 4/0 BARE COPPER TENSION 2424 LBS					

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.741	9.56	2424	9.56	2424*
25	0	0	0	0.654	9.21	2223	9.17	2233
30	0	0	0	0.654	9.37	2184	9.33	2195
40	0	0	0	0.654	9.70	2109	9.64	2123
50	0	0	0	0.654	10.03	2040	9.96	2055
60	0	0	0	0.654	10.36	1976	10.28	1992
70	0	0	0	0.654	10.68	1916	10.59	1933
80	0	0	0	0.654	11.00	1861	10.90	1878
90	0	0	0	0.654	11.32	1809	11.21	1827
100	0	0	0	0.654	11.64	1760	11.52	1778
110	0	0	0	0.654	11.94	1715	11.82	1733
120	0	0	0	0.654	12.25	1672	12.12	1690
130	0	0	0	0.654	12.55	1632	12.42	1650
167	0	0	0	0.654	13.64	1503	13.49	1520
212	0	0	0	0.654	14.88	1378	14.72	1393

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>4 OF 33</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH820.4</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING</p> <p>4/0 BARE COPPER TENSION 2424 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0- 2	0- 2	0- 3	0- 3	0- 3	0- 4	0- 4	0- 5	0- 5	0- 6
100.00	0- 4	0- 4	0- 5	0- 5	0- 6	0- 7	0- 7	0- 8	0-10	0-11
125.00	0- 6	0- 7	0- 7	0- 8	0- 9	0-10	1- 0	1- 1	1- 3	1- 5
150.00	0- 9	0-10	0-11	1- 0	1- 1	1- 3	1- 5	1- 7	1-10	2- 0
175.00	1- 0	1- 1	1- 2	1- 4	1- 6	1- 8	1-11	2- 2	2- 5	2- 9
200.00	1- 4	1- 5	1- 7	1- 9	1-11	2- 2	2- 6	2-10	3- 2	3- 7

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0- 2	0- 2	0- 3	0- 3	0- 3	0- 4	0- 5	0- 5	0- 6	0- 7
100.00	0- 4	0- 4	0- 5	0- 5	0- 6	0- 7	0- 8	0- 9	0-11	1- 0
125.00	0- 6	0- 7	0- 8	0- 8	0-10	0-11	1- 1	1- 3	1- 5	1- 7
150.00	0- 9	0-10	0-11	1- 0	1- 2	1- 4	1- 6	1- 9	2- 0	2- 3
175.00	1- 0	1- 1	1- 3	1- 5	1- 7	1-10	2- 1	2- 4	2- 8	3- 1
200.00	1- 4	1- 5	1- 7	1-10	2- 1	2- 4	2- 8	3- 1	3- 6	4- 0

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 5 OF 33		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH820.5	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING 4/0 BARE COPPER TENSION 2424 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0- 4	0- 4	0- 5	0- 5	0- 5	0- 6	0- 6	0- 7	0- 7	0- 8
125.00	0- 6	0- 7	0- 7	0- 8	0- 9	0- 9	0-10	0-11	1- 0	1- 0
150.00	0- 9	0-10	0-11	0-11	1- 0	1- 1	1- 2	1- 4	1- 5	1- 6
175.00	1- 0	1- 1	1- 2	1- 4	1- 5	1- 6	1- 8	1- 9	1-11	2- 0
200.00	1- 4	1- 5	1- 7	1- 8	1-10	2- 0	2- 2	2- 4	2- 6	2- 8
225.00	1- 8	1-10	2- 0	2- 2	2- 4	2- 6	2- 8	2-11	3- 2	3- 4
250.00	2- 1	2- 3	2- 5	2- 8	2-10	3- 1	3- 4	3- 7	3-10	4- 2

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0- 4	0- 4	0- 5	0- 5	0- 6	0- 6	0- 7	0- 7	0- 8	0- 8
125.00	0- 6	0- 7	0- 7	0- 8	0- 9	0-10	0-10	0-11	1- 0	1- 1
150.00	0- 9	0-10	0-11	1- 0	1- 1	1- 2	1- 3	1- 4	1- 5	1- 7
175.00	1- 0	1- 1	1- 3	1- 4	1- 5	1- 7	1- 8	1-10	2- 0	2- 1
200.00	1- 4	1- 5	1- 7	1- 9	1-11	2- 1	2- 3	2- 5	2- 7	2- 9
225.00	1- 8	1-10	2- 0	2- 2	2- 5	2- 7	2-10	3- 1	3- 3	3- 6
250.00	2- 1	2- 3	2- 6	2- 8	2-11	3- 3	3- 6	3- 9	4- 1	4- 4

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New Page

Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

OH820.6

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0- 9	0-10	0-10	0-11	1- 0	1- 0	1- 1	1- 2	1- 2	1- 3
175.00	1- 1	1- 1	1- 2	1- 3	1- 4	1- 5	1- 6	1- 7	1- 8	1- 9
200.00	1- 5	1- 6	1- 7	1- 8	1- 9	1-10	1-11	2- 0	2- 2	2- 3
225.00	1- 9	1-10	2- 0	2- 1	2- 2	2- 4	2- 5	2- 7	2- 9	2-10
250.00	2- 2	2- 3	2- 5	2- 7	2- 9	2-10	3- 0	3- 2	3- 4	3- 6
275.00	2- 7	2- 9	2-11	3- 1	3- 4	3- 6	3- 8	3-10	4- 1	4- 3
300.00	3- 1	3- 3	3- 6	3- 8	3-11	4- 2	4- 4	4- 7	4-10	5- 1
325.00	3- 8	3-10	4- 1	4- 4	4- 7	4-10	5- 1	5- 5	5- 8	5-11
350.00	4- 3	4- 6	4- 9	5- 0	5- 4	5- 8	5-11	6- 3	6- 7	6-10
375.00	4-10	5- 2	5- 5	5- 9	6- 1	6- 6	6-10	7- 2	7- 6	7-11

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0- 9	0-10	0-11	0-11	1- 0	1- 1	1- 1	1- 2	1- 3	1- 4
175.00	1- 1	1- 2	1- 2	1- 3	1- 4	1- 5	1- 6	1- 7	1- 8	1- 9
200.00	1- 5	1- 6	1- 7	1- 8	1- 9	1-11	2- 0	2- 1	2- 2	2- 4
225.00	1- 9	1-10	2- 0	2- 1	2- 3	2- 5	2- 6	2- 8	2- 9	2-11
250.00	2- 2	2- 4	2- 5	2- 7	2- 9	2-11	3- 1	3- 3	3- 5	3- 7
275.00	2- 7	2- 9	3- 0	3- 2	3- 4	3- 7	3- 9	3-11	4- 2	4- 4
300.00	3- 1	3- 4	3- 6	3- 9	4- 0	4- 3	4- 6	4- 8	4-11	5- 2
325.00	3- 8	3-11	4- 2	4- 5	4- 8	5- 0	5- 3	5- 6	5-10	6- 1
350.00	4- 3	4- 6	4-10	5- 1	5- 5	5- 9	6- 1	6- 5	6- 9	7- 0
375.00	4-10	5- 2	5- 6	5-11	6- 3	6- 7	7- 0	7- 4	7- 9	8- 1

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 7 OF 33		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH820.7	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING 4/0 BARE COPPER TENSION 2424 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span:	400.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1- 5	1- 6	1- 7	1- 7	1- 8	1- 9	1-10	1-11	1-11	2- 0
225.00	1- 9	1-10	1-11	2- 1	2- 2	2- 3	2- 4	2- 5	2- 6	2- 7
250.00	2- 2	2- 4	2- 5	2- 6	2- 8	2- 9	2-10	2-11	3- 1	3- 2
275.00	2- 8	2-10	2-11	3- 1	3- 2	3- 4	3- 5	3- 7	3- 8	3-10
300.00	3- 2	3- 4	3- 6	3- 8	3- 9	3-11	4- 1	4- 3	4- 5	4- 7
325.00	3- 9	3-11	4- 1	4- 3	4- 5	4- 7	4-10	5- 0	5- 2	5- 4
350.00	4- 4	4- 6	4- 9	4-11	5- 2	5- 4	5- 7	5- 9	6- 0	6- 2
375.00	5- 0	5- 2	5- 5	5- 8	5-11	6- 2	6- 5	6- 8	6-11	7- 1
400.00	5- 8	5-11	6- 2	6- 5	6- 9	7- 0	7- 3	7- 7	7-10	8- 1
425.00	6- 5	6- 8	7- 0	7- 3	7- 7	7-11	8- 3	8- 6	8-10	9- 2
450.00	7- 2	7- 6	7-10	8- 2	8- 6	8-10	9- 3	9- 7	9-11	10- 3
475.00	8- 0	8- 4	8- 9	9- 1	9- 6	9-11	10- 3	10- 8	11- 0	11- 5
500.00	8-10	9- 3	9- 8	10- 1	10- 6	10-11	11- 5	11-10	12- 3	12- 8

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1- 5	1- 6	1- 7	1- 8	1- 8	1- 9	1-10	1-11	2- 0	2- 1
225.00	1-10	1-11	2- 0	2- 1	2- 2	2- 3	2- 4	2- 5	2- 6	2- 7
250.00	2- 3	2- 4	2- 5	2- 7	2- 8	2- 9	2-11	3- 0	3- 1	3- 3
275.00	2- 8	2-10	2-11	3- 1	3- 3	3- 4	3- 6	3- 7	3- 9	3-11
300.00	3- 2	3- 4	3- 6	3- 8	3-10	4- 0	4- 2	4- 4	4- 6	4- 7
325.00	3- 9	3-11	4- 1	4- 4	4- 6	4- 8	4-10	5- 1	5- 3	5- 5
350.00	4- 4	4- 7	4- 9	5- 0	5- 3	5- 5	5- 8	5-10	6- 1	6- 4
375.00	5- 0	5- 3	5- 6	5- 9	6- 0	6- 3	6- 6	6- 9	7- 0	7- 3
400.00	5- 8	5-11	6- 3	6- 6	6-10	7- 1	7- 5	7- 8	7-11	8- 3
425.00	6- 5	6- 9	7- 1	7- 4	7- 8	8- 0	8- 4	8- 8	9- 0	9- 3
450.00	7- 2	7- 6	7-11	8- 3	8- 7	9- 0	9- 4	9- 8	10- 1	10- 5
475.00	8- 0	8- 5	8-10	9- 2	9- 7	10- 0	10- 5	10-10	11- 2	11- 7
500.00	8-10	9- 4	9- 9	10- 2	10- 8	11- 1	11- 6	12- 0	12- 5	12-10

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 8 OF 33		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH820.8	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING 4/0 BARE COPPER TENSION 2424 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.805	1.66	2424	1.66	2424*
20	0	0	0	0.654	1.14	2864	1.14	2864
30	0	0	0	0.654	1.22	2672	1.22	2672
40	0	0	0	0.654	1.32	2485	1.32	2485
50	0	0	0	0.654	1.43	2290	1.42	2304
60	0	0	0	0.654	1.56	2099	1.53	2132
70	0	0	0	0.654	1.70	1923	1.66	1969
80	0	0	0	0.654	1.86	1763	1.80	1818
90	0	0	0	0.654	2.02	1619	1.95	1679
100	0	0	0	0.654	2.19	1492	2.11	1553
110	0	0	0	0.654	2.37	1380	2.27	1441
120	0	0	0	0.654	2.55	1283	2.44	1341
130	0	0	0	0.654	2.73	1198	2.61	1253
167	0	0	0	0.654	3.38	968	3.25	1008
212	0	0	0	0.654	4.11	797	3.97	825
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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SHEET 10 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH820.10
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING 4/0 BARE COPPER TENSION 2424 LBS					

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	0.805	6.65	2424	6.65	2424*
20	0	0	0	0.654	5.32	2462	5.32	2462
30	0	0	0	0.654	5.59	2343	5.57	2349
40	0	0	0	0.654	5.87	2231	5.84	2243
50	0	0	0	0.654	6.15	2128	6.11	2144
60	0	0	0	0.654	6.44	2033	6.38	2053
70	0	0	0	0.654	6.73	1946	6.65	1969
80	0	0	0	0.654	7.01	1867	6.92	1891
90	0	0	0	0.654	7.30	1794	7.20	1819
100	0	0	0	0.654	7.58	1727	7.47	1753
110	0	0	0	0.654	7.86	1666	7.74	1691
120	0	0	0	0.654	8.14	1610	8.01	1635
130	0	0	0	0.654	8.41	1557	8.28	1582
167	0	0	0	0.654	9.39	1396	9.24	1418
212	0	0	0	0.654	10.51	1248	10.35	1267
* Design Condition								

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SHEET 11 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH820.11
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING 4/0 BARE COPPER TENSION 2424 LBS					

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	0.805	10.40	2424	10.40	2424*
20	0	0	0	0.654	8.83	2316	8.81	2322
30	0	0	0	0.654	9.17	2232	9.13	2241
40	0	0	0	0.654	9.50	2154	9.45	2166
50	0	0	0	0.654	9.83	2082	9.77	2096
60	0	0	0	0.654	10.16	2015	10.08	2030
70	0	0	0	0.654	10.49	1953	10.40	1969
80	0	0	0	0.654	10.81	1894	10.71	1911
90	0	0	0	0.654	11.13	1840	11.02	1858
100	0	0	0	0.654	11.44	1790	11.33	1807
110	0	0	0	0.654	11.76	1742	11.64	1760
120	0	0	0	0.654	12.06	1698	11.94	1716
130	0	0	0	0.654	12.37	1656	12.24	1674
167	0	0	0	0.654	13.46	1523	13.31	1539
212	0	0	0	0.654	14.72	1394	14.56	1408
* Design Condition								

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<div style="text-align: center;"> <p>SHEET</p> <p>12 OF 33</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH820.12</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING</p> <p>4/0 BARE COPPER TENSION 2424 LBS</p> </div>					

Completely Revised

New Page

OH820.12

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0- 2	0- 2	0- 2	0- 2	0- 3	0- 3	0- 3	0- 4	0- 4	0- 4
100.00	0- 3	0- 3	0- 4	0- 4	0- 5	0- 5	0- 6	0- 6	0- 7	0- 8
125.00	0- 5	0- 5	0- 6	0- 6	0- 7	0- 8	0- 9	0-10	0-11	1- 0
150.00	0- 7	0- 8	0- 8	0- 9	0-10	0-11	1- 0	1- 2	1- 4	1- 6
175.00	0-10	0-11	1- 0	1- 1	1- 2	1- 3	1- 5	1- 7	1-10	2- 0
200.00	1- 1	1- 2	1- 3	1- 4	1- 6	1- 8	1-10	2- 1	2- 4	2- 8

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0- 2	0- 2	0- 2	0- 2	0- 3	0- 3	0- 3	0- 4	0- 4	0- 5
100.00	0- 3	0- 3	0- 4	0- 4	0- 5	0- 5	0- 6	0- 7	0- 8	0- 9
125.00	0- 5	0- 5	0- 6	0- 6	0- 7	0- 8	0- 9	0-10	1- 0	1- 2
150.00	0- 7	0- 8	0- 8	0- 9	0-10	1- 0	1- 1	1- 3	1- 5	1- 8
175.00	0-10	0-11	1- 0	1- 1	1- 2	1- 4	1- 6	1- 8	1-11	2- 3
200.00	1- 1	1- 2	1- 3	1- 4	1- 6	1- 9	1-11	2- 3	2- 7	2-11

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SHEET 13 OF 33		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH820.13	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING 4/0 BARE COPPER TENSION 2424 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0- 3	0- 4	0- 4	0- 4	0- 5	0- 5	0- 5	0- 6	0- 6	0- 7
125.00	0- 5	0- 6	0- 6	0- 7	0- 7	0- 8	0- 8	0- 9	0-10	0-11
150.00	0- 8	0- 8	0- 9	0-10	0-10	0-11	1- 0	1- 1	1- 2	1- 3
175.00	0-10	0-11	1- 0	1- 1	1- 2	1- 3	1- 5	1- 6	1- 7	1- 9
200.00	1- 2	1- 3	1- 4	1- 5	1- 6	1- 8	1-10	1-11	2- 1	2- 3
225.00	1- 5	1- 7	1- 8	1-10	1-11	2- 1	2- 3	2- 6	2- 8	2-10
250.00	1- 9	1-11	2- 1	2- 3	2- 5	2- 7	2-10	3- 1	3- 3	3- 7

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0- 3	0- 4	0- 4	0- 4	0- 5	0- 5	0- 6	0- 6	0- 7	0- 7
125.00	0- 5	0- 6	0- 6	0- 7	0- 7	0- 8	0- 9	0- 9	0-10	0-11
150.00	0- 8	0- 8	0- 9	0-10	0-11	0-11	1- 1	1- 2	1- 3	1- 4
175.00	0-10	0-11	1- 0	1- 1	1- 2	1- 4	1- 5	1- 7	1- 8	1-10
200.00	1- 2	1- 3	1- 4	1- 5	1- 7	1- 8	1-10	2- 0	2- 2	2- 4
225.00	1- 5	1- 7	1- 8	1-10	2- 0	2- 2	2- 4	2- 7	2- 9	3- 0
250.00	1- 9	1-11	2- 1	2- 3	2- 5	2- 8	2-11	3- 2	3- 5	3- 8

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SHEET 14 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH820.14
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING 4/0 BARE COPPER TENSION 2424 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0- 8	0- 9	0- 9	0-10	0-11	0-11	1- 0	1- 1	1- 1	1- 2
175.00	0-11	1- 0	1- 1	1- 2	1- 2	1- 3	1- 4	1- 5	1- 6	1- 7
200.00	1- 3	1- 4	1- 5	1- 6	1- 7	1- 8	1- 9	1-10	1-11	2- 1
225.00	1- 7	1- 8	1- 9	1-10	2- 0	2- 1	2- 3	2- 4	2- 6	2- 7
250.00	1-11	2- 1	2- 2	2- 4	2- 5	2- 7	2- 9	2-11	3- 1	3- 3
275.00	2- 4	2- 6	2- 8	2-10	3- 0	3- 2	3- 4	3- 6	3- 8	3-11
300.00	2- 9	2-11	3- 2	3- 4	3- 6	3- 9	3-11	4- 2	4- 5	4- 8
325.00	3- 3	3- 5	3- 8	3-11	4- 2	4- 5	4- 8	4-11	5- 2	5- 5
350.00	3- 9	4- 0	4- 3	4- 6	4-10	5- 1	5- 5	5- 8	6- 0	6- 4
375.00	4- 4	4- 7	4-11	5- 2	5- 6	5-10	6- 2	6- 6	6-11	7- 3

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0- 8	0- 9	0- 9	0-10	0-11	0-11	1- 0	1- 1	1- 2	1- 2
175.00	0-11	1- 0	1- 1	1- 2	1- 3	1- 4	1- 4	1- 5	1- 6	1- 7
200.00	1- 3	1- 4	1- 5	1- 6	1- 7	1- 8	1-10	1-11	2- 0	2- 1
225.00	1- 7	1- 8	1- 9	1-11	2- 0	2- 2	2- 3	2- 5	2- 6	2- 8
250.00	1-11	2- 1	2- 2	2- 4	2- 6	2- 8	2-10	3- 0	3- 2	3- 4
275.00	2- 4	2- 6	2- 8	2-10	3- 0	3- 2	3- 5	3- 7	3- 9	4- 0
300.00	2- 9	2-11	3- 2	3- 4	3- 7	3-10	4- 0	4- 3	4- 6	4- 9
325.00	3- 3	3- 5	3- 8	3-11	4- 2	4- 6	4- 9	5- 0	5- 3	5- 7
350.00	3- 9	4- 0	4- 3	4- 7	4-10	5- 2	5- 6	5-10	6- 2	6- 5
375.00	4- 4	4- 7	4-11	5- 3	5- 7	5-11	6- 4	6- 8	7- 1	7- 5

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 15 OF 33		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH820.15	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING 4/0 BARE COPPER TENSION 2424 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1- 4	1- 5	1- 6	1- 6	1- 7	1- 8	1- 9	1-10	1-10	1-11
225.00	1- 8	1- 9	1-10	1-11	2- 0	2- 1	2- 2	2- 3	2- 4	2- 5
250.00	2- 1	2- 2	2- 3	2- 5	2- 6	2- 7	2- 8	2-10	2-11	3- 0
275.00	2- 6	2- 8	2- 9	2-11	3- 0	3- 2	3- 3	3- 5	3- 6	3- 8
300.00	3- 0	3- 2	3- 3	3- 5	3- 7	3- 9	3-11	4- 1	4- 2	4- 4
325.00	3- 6	3- 8	3-10	4- 0	4- 3	4- 5	4- 7	4- 9	4-11	5- 1
350.00	4- 1	4- 3	4- 6	4- 8	4-11	5- 1	5- 4	5- 6	5- 9	5-11
375.00	4- 8	4-11	5- 2	5- 4	5- 7	5-10	6- 1	6- 4	6- 7	6-10
400.00	5- 4	5- 7	5-10	6- 1	6- 5	6- 8	6-11	7- 2	7- 6	7- 9
425.00	6- 0	6- 4	6- 7	6-11	7- 2	7- 6	7-10	8- 2	8- 5	8- 9
450.00	6- 9	7- 1	7- 5	7- 9	8- 1	8- 5	8- 9	9- 1	9- 6	9-10
475.00	7- 6	7-10	8- 3	8- 7	9- 0	9- 5	9- 9	10- 2	10- 6	10-11
500.00	8- 4	8- 9	9- 1	9- 6	10- 0	10- 5	10-10	11- 3	11- 8	12- 1

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1- 4	1- 5	1- 6	1- 6	1- 7	1- 8	1- 9	1-10	1-11	2- 0
225.00	1- 8	1- 9	1-10	1-11	2- 0	2- 2	2- 3	2- 4	2- 5	2- 6
250.00	2- 1	2- 2	2- 4	2- 5	2- 6	2- 8	2- 9	2-10	3- 0	3- 1
275.00	2- 6	2- 8	2- 9	2-11	3- 1	3- 2	3- 4	3- 5	3- 7	3- 9
300.00	3- 0	3- 2	3- 4	3- 6	3- 7	3- 9	3-11	4- 1	4- 3	4- 5
325.00	3- 6	3- 8	3-10	4- 1	4- 3	4- 5	4- 8	4-10	5- 0	5- 2
350.00	4- 1	4- 3	4- 6	4- 9	4-11	5- 2	5- 4	5- 7	5-10	6- 0
375.00	4- 8	4-11	5- 2	5- 5	5- 8	5-11	6- 2	6- 5	6- 8	6-11
400.00	5- 4	5- 7	5-10	6- 2	6- 5	6- 9	7- 0	7- 4	7- 7	7-10
425.00	6- 0	6- 4	6- 8	6-11	7- 3	7- 7	7-11	8- 3	8- 7	8-11
450.00	6- 9	7- 1	7- 5	7- 9	8- 2	8- 6	8-11	9- 3	9- 7	9-11
475.00	7- 6	7-11	8- 3	8- 8	9- 1	9- 6	9-11	10- 4	10- 8	11- 1
500.00	8- 4	8- 9	9- 2	9- 7	10- 1	10- 6	11- 0	11- 5	11-10	12- 3

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 16 OF 33		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH820.16	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING 4/0 BARE COPPER TENSION 2424 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.037	2.14	2424	2.14	2424*
20	0	0	0	0.654	1.25	2617	1.25	2617
30	0	0	0	0.654	1.34	2432	1.34	2432
40	0	0	0	0.654	1.46	2233	1.45	2253
50	0	0	0	0.654	1.60	2047	1.57	2084
60	0	0	0	0.654	1.74	1875	1.70	1924
70	0	0	0	0.654	1.90	1720	1.84	1776
80	0	0	0	0.654	2.07	1581	1.99	1641
90	0	0	0	0.654	2.24	1458	2.15	1520
100	0	0	0	0.654	2.42	1351	2.32	1411
110	0	0	0	0.654	2.60	1257	2.49	1314
120	0	0	0	0.654	2.78	1176	2.66	1229
130	0	0	0	0.654	2.96	1105	2.84	1154
167	0	0	0	0.654	3.60	910	3.46	946
212	0	0	0	0.654	4.30	761	4.16	786
* Design Condition								

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SHEET 18 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH820.18
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING 4/0 BARE COPPER TENSION 2424 LBS					

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.037	8.57	2424	8.57	2424*
20	0	0	0	0.654	6.78	1932	6.70	1955
30	0	0	0	0.654	7.06	1854	6.97	1878
40	0	0	0	0.654	7.35	1782	7.25	1807
50	0	0	0	0.654	7.63	1716	7.52	1742
60	0	0	0	0.654	7.91	1656	7.79	1681
70	0	0	0	0.654	8.19	1600	8.06	1625
80	0	0	0	0.654	8.46	1549	8.33	1573
90	0	0	0	0.654	8.73	1501	8.59	1525
100	0	0	0	0.654	9.00	1457	8.85	1480
110	0	0	0	0.654	9.26	1416	9.11	1439
120	0	0	0	0.654	9.51	1378	9.37	1400
130	0	0	0	0.654	9.77	1342	9.62	1363
167	0	0	0	0.654	10.67	1229	10.51	1248
212	0	0	0	0.654	11.71	1121	11.54	1137
* Design Condition								

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 19 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH820.19
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING 4/0 BARE COPPER TENSION 2424 LBS					

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.037	13.41	2424	13.41	2424*
20	0	0	0	0.654	11.48	1784	11.36	1802
30	0	0	0	0.654	11.79	1737	11.67	1755
40	0	0	0	0.654	12.10	1693	11.97	1711
50	0	0	0	0.654	12.40	1652	12.27	1670
60	0	0	0	0.654	12.70	1613	12.56	1631
70	0	0	0	0.654	13.00	1577	12.86	1594
80	0	0	0	0.654	13.29	1542	13.14	1559
90	0	0	0	0.654	13.58	1510	13.43	1526
100	0	0	0	0.654	13.86	1479	13.71	1495
110	0	0	0	0.654	14.14	1450	13.99	1466
120	0	0	0	0.654	14.42	1422	14.26	1437
130	0	0	0	0.654	14.69	1396	14.54	1411
167	0	0	0	0.654	15.67	1309	15.51	1323
212	0	0	0	0.654	16.81	1221	16.64	1233
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>20 OF 33</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH820.20</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>4/0 BARE COPPER TENSION 2424 LBS</p> </div>					

Completely Revised

New Page

OH820.20

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
4/0 BARE COPPER TENSION 2424 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0- 2	0- 2	0- 2	0- 2	0- 3	0- 3	0- 3	0- 4	0- 4	0- 5
100.00	0- 3	0- 4	0- 4	0- 4	0- 5	0- 5	0- 6	0- 6	0- 7	0- 8
125.00	0- 5	0- 6	0- 6	0- 7	0- 7	0- 8	0- 9	0-10	0-11	1- 1
150.00	0- 7	0- 8	0- 9	0-10	0-10	1- 0	1- 1	1- 3	1- 5	1- 7
175.00	0-10	0-11	1- 0	1- 1	1- 2	1- 4	1- 6	1- 8	1-10	2- 2
200.00	1- 1	1- 2	1- 3	1- 5	1- 7	1- 9	1-11	2- 2	2- 5	2- 9

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0- 2	0- 2	0- 2	0- 2	0- 3	0- 3	0- 3	0- 4	0- 4	0- 5
100.00	0- 3	0- 4	0- 4	0- 4	0- 5	0- 5	0- 6	0- 7	0- 8	0- 9
125.00	0- 5	0- 6	0- 6	0- 7	0- 7	0- 8	0- 9	0-11	1- 0	1- 2
150.00	0- 7	0- 8	0- 9	0-10	0-11	1- 0	1- 2	1- 4	1- 6	1- 9
175.00	0-10	0-11	1- 0	1- 1	1- 3	1- 4	1- 7	1- 9	2- 0	2- 4
200.00	1- 1	1- 2	1- 3	1- 5	1- 7	1- 9	2- 0	2- 4	2- 8	3- 1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 21 OF 33		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH820.21	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING 4/0 BARE COPPER TENSION 2424 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span:	200.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0- 4	0- 4	0- 4	0- 5	0- 5	0- 6	0- 6	0- 6	0- 7	0- 7
125.00	0- 6	0- 6	0- 7	0- 7	0- 8	0- 9	0- 9	0-10	0-11	1- 0
150.00	0- 8	0- 9	0-10	0-11	0-11	1- 0	1- 1	1- 3	1- 4	1- 5
175.00	0-11	1- 0	1- 1	1- 2	1- 4	1- 5	1- 6	1- 8	1- 9	1-11
200.00	1- 3	1- 4	1- 5	1- 7	1- 8	1-10	2- 0	2- 2	2- 4	2- 6
225.00	1- 7	1- 8	1-10	2- 0	2- 2	2- 4	2- 6	2- 9	2-11	3- 2
250.00	1-11	2- 1	2- 3	2- 5	2- 8	2-11	3- 1	3- 4	3- 7	3-11

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0- 4	0- 4	0- 4	0- 5	0- 5	0- 6	0- 6	0- 7	0- 7	0- 8
125.00	0- 6	0- 6	0- 7	0- 7	0- 8	0- 9	0-10	0-11	0-11	1- 0
150.00	0- 8	0- 9	0-10	0-11	1- 0	1- 1	1- 2	1- 3	1- 4	1- 6
175.00	0-11	1- 0	1- 1	1- 3	1- 4	1- 5	1- 7	1- 9	1-10	2- 0
200.00	1- 3	1- 4	1- 6	1- 7	1- 9	1-11	2- 1	2- 3	2- 5	2- 7
225.00	1- 7	1- 8	1-10	2- 0	2- 2	2- 5	2- 7	2-10	3- 1	3- 4
250.00	1-11	2- 1	2- 3	2- 6	2- 9	3- 0	3- 3	3- 6	3- 9	4- 1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 22 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH820.22
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING 4/0 BARE COPPER TENSION 2424 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	0-11	1- 0	1- 0	1- 1	1- 2	1- 3	1- 3	1- 4
175.00	1- 1	1- 2	1- 3	1- 4	1- 5	1- 6	1- 7	1- 8	1- 9	1-10
200.00	1- 6	1- 7	1- 8	1- 9	1-10	1-11	2- 1	2- 2	2- 3	2- 4
225.00	1-10	2- 0	2- 1	2- 3	2- 4	2- 6	2- 7	2- 9	2-10	3- 0
250.00	2- 4	2- 5	2- 7	2- 9	2-11	3- 1	3- 2	3- 4	3- 6	3- 8
275.00	2- 9	2-11	3- 1	3- 4	3- 6	3- 8	3-10	4- 1	4- 3	4- 5
300.00	3- 4	3- 6	3- 9	3-11	4- 2	4- 5	4- 7	4-10	5- 1	5- 3
325.00	3-11	4- 1	4- 4	4- 7	4-11	5- 2	5- 5	5- 8	5-11	6- 2
350.00	4- 6	4- 9	5- 1	5- 4	5- 8	6- 0	6- 3	6- 7	6-11	7- 2
375.00	5- 2	5- 6	5-10	6- 2	6- 6	6-10	7- 2	7- 7	7-11	8- 3

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	0-10	0-11	0-11	1- 0	1- 1	1- 1	1- 2	1- 3	1- 4	1- 4
175.00	1- 2	1- 3	1- 3	1- 4	1- 5	1- 6	1- 7	1- 8	1- 9	1-10
200.00	1- 6	1- 7	1- 8	1- 9	1-11	2- 0	2- 1	2- 2	2- 4	2- 5
225.00	1-10	2- 0	2- 2	2- 3	2- 5	2- 6	2- 8	2- 9	2-11	3- 1
250.00	2- 4	2- 6	2- 7	2- 9	2-11	3- 1	3- 3	3- 5	3- 7	3- 9
275.00	2-10	3- 0	3- 2	3- 4	3- 7	3- 9	4- 0	4- 2	4- 4	4- 7
300.00	3- 4	3- 7	3- 9	4- 0	4- 3	4- 6	4- 9	4-11	5- 2	5- 5
325.00	3-11	4- 2	4- 5	4- 8	5- 0	5- 3	5- 6	5-10	6- 1	6- 4
350.00	4- 6	4-10	5- 2	5- 6	5- 9	6- 1	6- 5	6- 9	7- 1	7- 5
375.00	5- 2	5- 7	5-11	6- 3	6- 8	7- 0	7- 5	7- 9	8- 1	8- 6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 23 OF 33		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH820.23	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING 4/0 BARE COPPER TENSION 2424 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span:	400.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1- 8	1- 9	1-10	1-11	1-11	2- 0	2- 1	2- 2	2- 3	2- 3
225.00	2- 1	2- 2	2- 4	2- 5	2- 6	2- 7	2- 8	2- 9	2-10	2-11
250.00	2- 7	2- 9	2-10	2-11	3- 1	3- 2	3- 3	3- 4	3- 5	3- 7
275.00	3- 2	3- 4	3- 5	3- 7	3- 8	3-10	3-11	4- 1	4- 2	4- 4
300.00	3- 9	3-11	4- 1	4- 3	4- 5	4- 6	4- 8	4-10	5- 0	5- 1
325.00	4- 5	4- 7	4- 9	5- 0	5- 2	5- 4	5- 6	5- 8	5-10	6- 0
350.00	5- 2	5- 4	5- 7	5- 9	6- 0	6- 2	6- 5	6- 7	6- 9	7- 0
375.00	5-11	6- 2	6- 4	6- 7	6-10	7- 1	7- 4	7- 7	7- 9	8- 0
400.00	6- 8	7- 0	7- 3	7- 6	7-10	8- 1	8- 4	8- 7	8-10	9- 1
425.00	7- 7	7-10	8- 2	8- 6	8-10	9- 1	9- 5	9- 8	10- 0	10- 3
450.00	8- 6	8-10	9- 2	9- 6	9-10	10- 2	10- 7	10-11	11- 2	11- 6
475.00	9- 5	9-10	10- 3	10- 7	11- 0	11- 4	11- 9	12- 1	12- 6	12-10
500.00	10- 6	10-11	11- 4	11- 9	12- 2	12- 7	13- 0	13- 5	13-10	14- 3

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	1- 8	1- 9	1-10	1-11	2- 0	2- 1	2- 1	2- 2	2- 3	2- 4
225.00	2- 2	2- 3	2- 4	2- 5	2- 6	2- 7	2- 8	2- 9	2-10	2-11
250.00	2- 8	2- 9	2-10	3- 0	3- 1	3- 2	3- 4	3- 5	3- 6	3- 7
275.00	3- 2	3- 4	3- 6	3- 7	3- 9	3-10	4- 0	4- 2	4- 3	4- 4
300.00	3-10	4- 0	4- 2	4- 4	4- 5	4- 7	4- 9	4-11	5- 1	5- 2
325.00	4- 6	4- 8	4-10	5- 0	5- 3	5- 5	5- 7	5- 9	5-11	6- 1
350.00	5- 2	5- 5	5- 8	5-10	6- 1	6- 3	6- 6	6- 8	6-11	7- 1
375.00	5-11	6- 3	6- 6	6- 8	6-11	7- 2	7- 5	7- 8	7-11	8- 2
400.00	6- 9	7- 1	7- 4	7- 8	7-11	8- 2	8- 6	8- 9	9- 0	9- 3
425.00	7- 8	8- 0	8- 4	8- 7	8-11	9- 3	9- 7	9-10	10- 2	10- 5
450.00	8- 7	8-11	9- 4	9- 8	10- 0	10- 4	10- 9	11- 1	11- 5	11- 9
475.00	9- 7	10- 0	10- 4	10- 9	11- 2	11- 7	11-11	12- 4	12- 8	13- 1
500.00	10- 7	11- 0	11- 6	11-11	12- 4	12-10	13- 3	13- 8	14- 1	14- 6

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 24 OF 33		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH820.24
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING 4/0 BARE COPPER TENSION 2424 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	1.518	3.13	2424	3.13	2424*
20	0	0	0	0.654	1.70	1922	1.66	1968
30	0	0	0	0.654	1.86	1762	1.80	1816
40	0	0	0	0.654	2.02	1618	1.95	1678
50	0	0	0	0.654	2.19	1491	2.11	1552
60	0	0	0	0.654	2.37	1379	2.27	1440
70	0	0	0	0.654	2.55	1282	2.44	1340
80	0	0	0	0.654	2.73	1197	2.61	1252
90	0	0	0	0.654	2.91	1124	2.79	1174
100	0	0	0	0.654	3.09	1059	2.96	1106
110	0	0	0	0.654	3.26	1003	3.13	1046
120	0	0	0	0.654	3.44	953	3.30	992
130	0	0	0	0.654	3.60	909	3.46	945
167	0	0	0	0.654	4.19	783	4.05	809
212	0	0	0	0.654	4.83	679	4.70	698
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 26 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH820.26
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING 4/0 BARE COPPER TENSION 2424 LBS					

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	1.518	12.58	2424	12.58	2424*
20	0	0	0	0.654	10.74	1222	10.58	1240
30	0	0	0	0.654	10.97	1196	10.81	1213
40	0	0	0	0.654	11.20	1171	11.04	1188
50	0	0	0	0.654	11.43	1148	11.27	1164
60	0	0	0	0.654	11.66	1126	11.49	1142
70	0	0	0	0.654	11.88	1105	11.72	1120
80	0	0	0	0.654	12.10	1085	11.93	1100
90	0	0	0	0.654	12.31	1066	12.15	1081
100	0	0	0	0.654	12.52	1049	12.36	1062
110	0	0	0	0.654	12.73	1031	12.57	1045
120	0	0	0	0.654	12.94	1015	12.78	1028
130	0	0	0	0.654	13.14	999	12.98	1012
167	0	0	0	0.654	13.88	947	13.72	958
212	0	0	0	0.654	14.73	893	14.57	902
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 27 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH820.27
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING 4/0 BARE COPPER TENSION 2424 LBS					

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	1.518	19.70	2424	19.70	2424*
20	0	0	0	0.654	17.84	1151	17.68	1162
30	0	0	0	0.654	18.08	1137	17.91	1147
40	0	0	0	0.654	18.31	1122	18.14	1133
50	0	0	0	0.654	18.53	1109	18.37	1119
60	0	0	0	0.654	18.76	1096	18.59	1105
70	0	0	0	0.654	18.98	1083	18.82	1092
80	0	0	0	0.654	19.21	1070	19.04	1080
90	0	0	0	0.654	19.42	1059	19.26	1068
100	0	0	0	0.654	19.64	1047	19.47	1056
110	0	0	0	0.654	19.86	1036	19.69	1044
120	0	0	0	0.654	20.07	1025	19.90	1033
130	0	0	0	0.654	20.28	1014	20.11	1023
167	0	0	0	0.654	21.04	978	20.88	986
212	0	0	0	0.654	21.94	939	21.78	946
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 28 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH820.28
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING 4/0 BARE COPPER TENSION 2424 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span:	100.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-5
100.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9
125.00	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-1	1-3
150.00	0-8	0-9	0-9	0-10	1-0	1-1	1-2	1-4	1-7	1-9
175.00	0-11	1-0	1-1	1-2	1-4	1-5	1-8	1-10	2-1	2-5
200.00	1-2	1-3	1-5	1-6	1-8	1-11	2-2	2-5	2-9	3-1

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-5	0-6
100.00	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-10
125.00	0-6	0-6	0-7	0-7	0-8	0-9	0-11	1-0	1-2	1-4
150.00	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-6	1-8	1-11
175.00	0-11	1-0	1-1	1-2	1-4	1-6	1-9	2-0	2-4	2-8
200.00	1-2	1-3	1-5	1-7	1-9	2-0	2-4	2-8	3-0	3-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 29 OF 33		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH820.29	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING 4/0 BARE COPPER TENSION 2424 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9
125.00	0-8	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-3
150.00	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-8	1-9
175.00	1-3	1-5	1-6	1-7	1-9	1-10	2-0	2-2	2-3	2-5
200.00	1-8	1-10	1-11	2-1	2-3	2-5	2-7	2-9	3-0	3-2
225.00	2-1	2-3	2-6	2-8	2-11	3-1	3-4	3-6	3-9	4-0
250.00	2-7	2-10	3-1	3-4	3-7	3-10	4-1	4-4	4-7	4-11

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10
125.00	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-2	1-3
150.00	0-11	1-1	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-10
175.00	1-4	1-5	1-7	1-8	1-10	1-11	2-1	2-3	2-4	2-6
200.00	1-8	1-10	2-0	2-2	2-4	2-7	2-9	2-11	3-1	3-3
225.00	2-2	2-4	2-7	2-9	3-0	3-3	3-6	3-8	3-11	4-2
250.00	2-8	2-11	3-2	3-5	3-8	4-0	4-3	4-7	4-10	5-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 30 OF 33	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH820.30
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING 4/0 BARE COPPER TENSION 2424 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1- 3	1- 4	1- 5	1- 5	1- 6	1- 7	1- 7	1- 8	1- 9	1- 9
175.00	1- 9	1-10	1-11	2- 0	2- 1	2- 1	2- 2	2- 3	2- 4	2- 5
200.00	2- 3	2- 5	2- 6	2- 7	2- 8	2- 9	2-10	2-11	3- 1	3- 2
225.00	2-11	3- 0	3- 2	3- 3	3- 5	3- 6	3- 8	3- 9	3-10	4- 0
250.00	3- 7	3- 9	3-11	4- 0	4- 2	4- 4	4- 6	4- 7	4- 9	4-11
275.00	4- 4	4- 6	4- 8	4-11	5- 1	5- 3	5- 5	5- 7	5- 9	5-11
300.00	5- 2	5- 4	5- 7	5-10	6- 0	6- 3	6- 5	6- 8	6-10	7- 1
325.00	6- 1	6- 4	6- 7	6-10	7- 1	7- 4	7- 7	7-10	8- 1	8- 3
350.00	7- 0	7- 4	7- 7	7-11	8- 3	8- 6	8- 9	9- 1	9- 4	9- 7
375.00	8- 1	8- 5	8- 9	9- 1	9- 5	9- 9	10- 1	10- 5	10- 9	11- 0

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1- 4	1- 5	1- 5	1- 6	1- 7	1- 7	1- 8	1- 8	1- 9	1-10
175.00	1-10	1-10	1-11	2- 0	2- 1	2- 2	2- 3	2- 4	2- 5	2- 5
200.00	2- 4	2- 5	2- 7	2- 8	2- 9	2-10	2-11	3- 0	3- 1	3- 2
225.00	3- 0	3- 1	3- 3	3- 4	3- 6	3- 7	3- 9	3-10	3-11	4- 1
250.00	3- 8	3-10	4- 0	4- 2	4- 3	4- 5	4- 7	4- 9	4-10	5- 0
275.00	4- 5	4- 8	4-10	5- 0	5- 2	5- 4	5- 7	5- 9	5-11	6- 1
300.00	5- 3	5- 6	5- 9	6- 0	6- 2	6- 5	6- 7	6-10	7- 0	7- 3
325.00	6- 2	6- 6	6- 9	7- 0	7- 3	7- 6	7- 9	8- 0	8- 3	8- 6
350.00	7- 2	7- 6	7-10	8- 1	8- 5	8- 8	9- 0	9- 3	9- 7	9-10
375.00	8- 3	8- 7	9- 0	9- 4	9- 8	10- 0	10- 4	10- 8	11- 0	11- 3

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 31 OF 33		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH820.31
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING 4/0 BARE COPPER TENSION 2424 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2- 8	2- 8	2- 9	2-10	2-10	2-11	3- 0	3- 0	3- 1	3- 2
225.00	3- 4	3- 5	3- 6	3- 7	3- 8	3- 8	3- 9	3-10	3-11	4- 0
250.00	4- 2	4- 3	4- 4	4- 5	4- 6	4- 7	4- 8	4- 9	4-10	4-11
275.00	5- 0	5- 1	5- 3	5- 4	5- 5	5- 6	5- 8	5- 9	5-10	5-11
300.00	5-11	6- 1	6- 3	6- 4	6- 6	6- 7	6- 9	6-10	6-11	7- 1
325.00	7- 0	7- 2	7- 3	7- 5	7- 7	7- 9	7-11	8- 0	8- 2	8- 4
350.00	8- 1	8- 3	8- 5	8- 8	8-10	9- 0	9- 2	9- 4	9- 6	9- 7
375.00	9- 4	9- 6	9- 8	9-11	10- 1	10- 4	10- 6	10- 8	10-10	11- 1
400.00	10- 7	10-10	11- 1	11- 3	11- 6	11- 9	11-11	12- 2	12- 4	12- 7
425.00	11-11	12- 3	12- 6	12- 9	13- 0	13- 3	13- 6	13- 9	13-11	14- 2
450.00	13- 5	13- 8	14- 0	14- 3	14- 7	14-10	15- 1	15- 5	15- 8	15-11
475.00	14-11	15- 3	15- 7	15-11	16- 3	16- 6	16-10	17- 2	17- 5	17- 9
500.00	16- 6	16-11	17- 3	17- 7	18- 0	18- 4	18- 8	19- 0	19- 4	19- 8

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2- 8	2- 9	2-10	2-10	2-11	3- 0	3- 0	3- 1	3- 2	3- 2
225.00	3- 5	3- 6	3- 7	3- 7	3- 8	3- 9	3-10	3-11	4- 0	4- 0
250.00	4- 2	4- 3	4- 4	4- 6	4- 7	4- 8	4- 9	4-10	4-11	5- 0
275.00	5- 1	5- 2	5- 4	5- 5	5- 6	5- 7	5- 9	5-10	5-11	6- 0
300.00	6- 0	6- 2	6- 4	6- 5	6- 7	6- 8	6-10	6-11	7- 0	7- 2
325.00	7- 1	7- 3	7- 5	7- 7	7- 8	7-10	8- 0	8- 1	8- 3	8- 5
350.00	8- 3	8- 5	8- 7	8- 9	8-11	9- 1	9- 3	9- 5	9- 7	9- 9
375.00	9- 5	9- 8	9-10	10- 1	10- 3	10- 5	10- 8	10-10	11- 0	11- 2
400.00	10- 9	11- 0	11- 2	11- 5	11- 8	11-11	12- 1	12- 4	12- 6	12- 9
425.00	12- 1	12- 5	12- 8	12-11	13- 2	13- 5	13- 8	13-11	14- 2	14- 5
450.00	13- 7	13-11	14- 2	14- 6	14- 9	15- 0	15- 4	15- 7	15-10	16- 1
475.00	15- 2	15- 6	15-10	16- 2	16- 5	16- 9	17- 1	17- 4	17- 8	18- 0
500.00	16- 9	17- 2	17- 6	17-10	18- 3	18- 7	18-11	19- 3	19- 7	19-11

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 32 OF 33		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH820.32
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING 4/0 BARE COPPER TENSION 2424 LBS									

SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 1/0 RTS TRIPLEX CONDUCTOR. CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

G.O. 95 LIGHT LOADING CONDITION

1000 LB TENSION	821.2
1500 LB TENSION	821.10
2000 LB TENSION	821.18

G.O. 95 HEAVY LOADING CONDITION

1000 LB TENSION -----	821.26
1500 LB TENSION -----	821.34
2000 LB TENSION -----	821.42

SDG&E EXTRA HEAVY LOADING CONDITION

1000 LB TENSION	821.50
1500 LB TENSION	821.56
2000 LB TENSION	821.64

65 MPH LIGHT KNOWN LOCAL WIND CONDITION

1000 LB TENSION	821.72
1500 LB TENSION	821.80
2000 LB TENSION	821.88

65 MPH HEAVY KNOWN LOCAL WIND CONDITION

1000 LB TENSION -----	821.96
1500 LB TENSION -----	821.104
2000 LB TENSION -----	821.112

85 MPH LIGHT KNOWN LOCAL WIND CONDITION

1000 LB TENSION -----	821.120
1500 LB TENSION -----	821.128
2000 LB TENSION -----	821.136

85 MPH HEAVY KNOWN LOCAL WIND CONDITION

1000 LB TENSION -----	821.144
1500 LB TENSION -----	821.152
2000 LB TENSION -----	821.160

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

1000 LB TENSION -----	821.168
1500 LB TENSION -----	821.176
2000 LB TENSION -----	821.184

111 MPH HEAVY KNOWN LOCAL WIND CONDITION

1000 LB TENSION -----	821.192
1500 LB TENSION -----	821.200
2000 LB TENSION -----	821.208

REFERENCE:

- a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 1 OF 215		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH821.1	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		1/0 RTS TRIPLEX TABLE OF CONTENTS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.809	16.29	1000	16.29	1000*
25	0	0	0	0.481	15.85	611	15.82	612
30	0	0	0	0.481	15.92	608	15.9	609
40	0	0	0	0.481	16.06	603	16.04	604
50	0	0	0	0.481	16.21	598	16.18	598
60	0	0	0	0.481	16.35	592	16.33	593
70	0	0	0	0.481	16.49	588	16.47	588
80	0	0	0	0.481	16.62	583	16.61	583
90	0	0	0	0.481	16.76	578	16.75	578
100	0	0	0	0.481	16.9	573	16.89	574
110	0	0	0	0.481	17.03	569	17.03	569
120	0	0	0	0.481	17.17	564	17.16	565
130	0	0	0	0.481	17.3	560	17.3	560
167	0	0	0	0.481	17.77	546	17.75	546
212	0	0	0	0.481	18.3	530	18.27	531
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 3 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.3
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.809	25.55	1000	25.55	1000*
25	0	0	0	0.481	25.11	605	25.08	605
30	0	0	0	0.481	25.18	603	25.15	604
40	0	0	0	0.481	25.32	600	25.3	600
50	0	0	0	0.481	25.46	596	25.44	597
60	0	0	0	0.481	25.61	593	25.59	594
70	0	0	0	0.481	25.75	590	25.73	590
80	0	0	0	0.481	25.89	587	25.87	587
90	0	0	0	0.481	26.03	584	26.02	584
100	0	0	0	0.481	26.17	581	26.16	581
110	0	0	0	0.481	26.31	578	26.3	578
120	0	0	0	0.481	26.45	575	26.44	575
130	0	0	0	0.481	26.58	572	26.58	572
167	0	0	0	0.481	27.07	562	27.05	562
212	0	0	0	0.481	27.62	551	27.6	551

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

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Information Removed

OH821.4

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

SHEET
4 OF 215

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-9	0-10
100	0-9	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-6
125	1-1	1-3	1-4	1-6	1-7	1-9	1-11	2-0	2-2	2-4
150	1-7	1-9	1-11	2-2	2-4	2-6	2-9	2-11	3-1	3-4
175	2-2	2-5	2-8	2-11	3-2	3-5	3-9	4-0	4-3	4-6
200	2-10	3-2	3-5	3-9	4-2	4-6	4-10	5-2	5-7	5-11

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-9	0-10
100	0-9	0-10	0-10	1-0	1-1	1-2	1-3	1-4	1-5	1-6
125	1-1	1-3	1-4	1-6	1-8	1-9	1-11	2-1	2-2	2-4
150	1-7	1-9	2-0	2-2	2-4	2-7	2-9	2-11	3-2	3-4
175	2-2	2-5	2-8	2-11	3-2	3-6	3-9	4-0	4-3	4-6
200	2-10	3-2	3-6	3-10	4-2	4-7	4-11	5-3	5-7	5-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 5 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.5
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-11	0-11	0-11	1-0	1-0	1-1	1-1	1-1	1-2	1-2
125	1-5	1-5	1-6	1-7	1-7	1-8	1-8	1-9	1-9	1-10
150	2-0	2-1	2-2	2-3	2-4	2-4	2-5	2-6	2-7	2-8
175	2-9	2-10	2-11	3-0	3-2	3-3	3-4	3-5	3-6	3-7
200	3-7	3-8	3-10	3-11	4-1	4-3	4-4	4-5	4-7	4-8
225	4-6	4-8	4-10	5-0	5-2	5-4	5-6	5-8	5-9	5-11
250	5-7	5-9	6-0	6-2	6-5	6-7	6-9	7-0	7-2	7-4

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-11	0-11	1-0	1-0	1-0	1-1	1-1	1-1	1-2	1-2
125	1-5	1-5	1-6	1-7	1-7	1-8	1-8	1-9	1-9	1-10
150	2-0	2-1	2-2	2-3	2-4	2-5	2-5	2-6	2-7	2-8
175	2-9	2-10	2-11	3-1	3-2	3-3	3-4	3-5	3-6	3-7
200	3-7	3-9	3-10	4-0	4-1	4-3	4-4	4-6	4-7	4-8
225	4-6	4-8	4-10	5-0	5-2	5-4	5-6	5-8	5-10	5-11
250	5-7	5-10	6-0	6-3	6-5	6-7	6-10	7-0	7-2	7-4

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 6 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.6
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	2-2	2-2	2-3	2-3	2-3	2-4	2-4	2-5	2-5	2-5
175	2-11	3-0	3-0	3-1	3-1	3-2	3-3	3-3	3-4	3-4
200	3-10	3-11	3-11	4-0	4-1	4-2	4-2	4-3	4-4	4-4
225	4-10	4-11	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-6
250	6-0	6-1	6-2	6-3	6-4	6-6	6-7	6-8	6-9	6-10
275	7-3	7-4	7-6	7-7	7-8	7-10	7-11	8-1	8-2	8-3
300	8-7	8-9	8-11	9-0	9-2	9-4	9-5	9-7	9-9	9-10
325	10-1	10-3	10-5	10-7	10-9	10-11	11-1	11-3	11-5	11-7
350	11-9	11-11	12-1	12-4	12-6	12-8	12-10	13-1	13-3	13-5
375	13-6	13-8	13-11	14-1	14-4	14-7	14-9	15-0	15-2	15-5

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	2-2	2-2	2-3	2-3	2-4	2-4	2-4	2-5	2-5	2-6
175	2-11	3-0	3-0	3-1	3-1	3-2	3-3	3-3	3-4	3-4
200	3-10	3-11	4-0	4-0	4-1	4-2	4-2	4-3	4-4	4-4
225	4-10	4-11	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-6
250	6-0	6-1	6-2	6-3	6-5	6-6	6-7	6-8	6-9	6-10
275	7-3	7-4	7-6	7-7	7-9	7-10	7-11	8-1	8-2	8-3
300	8-8	8-9	8-11	9-1	9-2	9-4	9-6	9-7	9-9	9-10
325	10-2	10-4	10-6	10-8	10-9	10-11	11-1	11-3	11-5	11-7
350	11-9	11-11	12-2	12-4	12-6	12-8	12-11	13-1	13-3	13-5
375	13-6	13-9	13-11	14-2	14-4	14-7	14-9	15-0	15-2	15-5

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div>SHEET</div> <div>7 OF 215</div>	<div>Indicates Latest Revision</div>	<div>Completely Revised</div>	<div>X</div>	<div>New Page</div>	<div>Information Removed</div>	<div>OH821.7</div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div>STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING</div> <div>1/0 RTS TRIPLEX TENSION 1000 LBS</div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	3-11	4-0	4-0	4-0	4-1	4-1	4-2	4-2	4-3	4-3
225	5-0	5-0	5-1	5-1	5-2	5-2	5-3	5-3	5-4	5-5
250	6-2	6-2	6-3	6-4	6-4	6-5	6-6	6-6	6-7	6-8
275	7-5	7-6	7-7	7-8	7-8	7-9	7-10	7-11	8-0	8-0
300	8-10	8-11	9-0	9-1	9-2	9-3	9-4	9-5	9-6	9-7
325	10-5	10-6	10-7	10-8	10-9	10-10	10-11	11-1	11-2	11-3
350	12-1	12-2	12-3	12-5	12-6	12-7	12-9	12-10	12-11	13-0
375	13-10	14-0	14-1	14-3	14-4	14-6	14-7	14-9	14-10	15-0
400	15-9	15-11	16-0	16-2	16-4	16-6	16-7	16-9	16-11	17-0
425	17-9	17-11	18-1	18-3	18-5	18-7	18-9	18-11	19-1	19-3
450	19-11	20-2	20-4	20-6	20-8	20-10	21-0	21-3	21-5	21-7
475	22-3	22-5	22-8	22-10	23-1	23-3	23-5	23-8	23-10	24-0
500	24-8	24-10	25-1	25-4	25-6	25-9	26-0	26-2	26-5	26-8

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	3-11	4-0	4-0	4-1	4-1	4-1	4-2	4-2	4-3	4-3
225	5-0	5-0	5-1	5-1	5-2	5-2	5-3	5-4	5-4	5-5
250	6-2	6-3	6-3	6-4	6-5	6-5	6-6	6-6	6-7	6-8
275	7-5	7-6	7-7	7-8	7-9	7-9	7-10	7-11	8-0	8-0
300	8-10	8-11	9-0	9-1	9-2	9-3	9-4	9-5	9-6	9-7
325	10-5	10-6	10-7	10-8	10-9	10-10	11-0	11-1	11-2	11-3
350	12-1	12-2	12-4	12-5	12-6	12-7	12-9	12-10	12-11	13-0
375	13-10	14-0	14-1	14-3	14-4	14-6	14-7	14-9	14-10	15-0
400	15-9	15-11	16-1	16-2	16-4	16-6	16-7	16-9	16-11	17-0
425	17-10	18-0	18-2	18-4	18-6	18-7	18-9	18-11	19-1	19-3
450	20-0	20-2	20-4	20-6	20-8	20-11	21-1	21-3	21-5	21-7
475	22-3	22-6	22-8	22-10	23-1	23-3	23-6	23-8	23-10	24-1
500	24-8	24-11	25-2	25-4	25-7	25-9	26-0	26-3	26-5	26-8

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<div>SHEET</div> <div>8 OF 215</div>	<div>Indicates Latest Revision</div>	<div>Completely Revised</div>	<div>X</div>	<div>New Page</div>	<div>Information Removed</div>	<div>OH821.8</div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div>STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING</div> <div>1/0 RTS TRIPLEX TENSION 1000 LBS</div>					

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	6-3	6-3	6-4	6-4	6-5	6-5	6-5	6-6	6-6	6-7
275	7-7	7-7	7-8	7-8	7-9	7-9	7-10	7-10	7-11	7-11
300	9-0	9-1	9-1	9-2	9-2	9-3	9-4	9-4	9-5	9-5
325	10-7	10-7	10-8	10-9	10-10	10-10	10-11	11-0	11-0	11-1
350	12-3	12-4	12-5	12-5	12-6	12-7	12-8	12-9	12-10	12-10
375	14-1	14-2	14-3	14-4	14-5	14-6	14-6	14-7	14-8	14-9
400	16-0	16-1	16-2	16-3	16-4	16-6	16-7	16-8	16-9	16-10
425	18-1	18-2	18-3	18-5	18-6	18-7	18-8	18-9	18-11	19-0
450	20-3	20-5	20-6	20-7	20-9	20-10	20-11	21-1	21-2	21-4
475	22-7	22-9	22-10	23-0	23-1	23-3	23-4	23-6	23-7	23-9
500	25-0	25-2	25-4	25-6	25-7	25-9	25-11	26-0	26-2	26-4
525	27-7	27-9	27-11	28-1	28-3	28-5	28-7	28-9	28-10	29-0
550	30-4	30-6	30-8	30-10	31-0	31-2	31-4	31-6	31-8	31-10
575	33-2	33-4	33-6	33-9	33-11	34-1	34-3	34-6	34-8	34-10
600	36-1	36-4	36-6	36-9	36-11	37-2	37-4	37-7	37-9	37-11
625	39-2	39-5	39-8	39-10	40-1	40-4	40-6	40-9	41-0	41-2

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 9 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.9
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS									

* Design Condition

* Design Condition

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B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 10 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH821.10
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS										

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>11 OF 215</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.11
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	0.809	16.93	1500	16.93	1500*
25	0	0	0	0.481	15.98	945	15.92	948
30	0	0	0	0.481	16.08	939	16.03	942
40	0	0	0	0.481	16.29	927	16.24	930
50	0	0	0	0.481	16.5	915	16.44	918
60	0	0	0	0.481	16.7	904	16.65	907
70	0	0	0	0.481	16.9	893	16.86	896
80	0	0	0	0.481	17.1	883	17.06	885
90	0	0	0	0.481	17.3	873	17.26	875
100	0	0	0	0.481	17.5	863	17.46	865
110	0	0	0	0.481	17.7	854	17.66	855
120	0	0	0	0.481	17.89	844	17.86	846
130	0	0	0	0.481	18.08	836	18.05	837
167	0	0	0	0.481	18.78	805	18.76	806
212	0	0	0	0.481	19.55	773	19.5	775
* Design Condition								

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.12

Stringing Sag Table Using Initial Sag							Ruling Span: 100.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6
100	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-11
125	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-6
150	0-11	1-0	1-1	1-2	1-4	1-6	1-7	1-9	2-0	2-2
175	1-3	1-5	1-6	1-8	1-10	2-0	2-2	2-5	2-8	2-11
200	1-8	1-10	2-0	2-2	2-4	2-7	2-10	3-2	3-6	3-10

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7
100	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0
125	0-8	0-9	0-9	0-10	0-11	1-0	1-2	1-3	1-5	1-6
150	0-11	1-0	1-1	1-3	1-4	1-6	1-8	1-10	2-0	2-2
175	1-3	1-5	1-6	1-8	1-10	2-0	2-3	2-6	2-9	3-0
200	1-8	1-10	2-0	2-2	2-5	2-8	2-11	3-3	3-7	3-11

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>13 OF 215</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.13
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-6	0-6	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10
125	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-2	1-3
150	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10
175	1-6	1-7	1-9	1-10	1-11	2-0	2-2	2-3	2-4	2-5
200	2-0	2-1	2-3	2-4	2-6	2-8	2-9	2-11	3-1	3-2
225	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-11	4-1
250	3-1	3-4	3-6	3-8	3-11	4-2	4-4	4-7	4-10	5-0

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-6	0-6	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10
125	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-3
150	1-2	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10
175	1-6	1-8	1-9	1-10	1-11	2-1	2-2	2-3	2-4	2-6
200	2-0	2-2	2-3	2-5	2-6	2-8	2-10	3-0	3-1	3-3
225	2-6	2-8	2-10	3-0	3-3	3-5	3-7	3-9	3-11	4-1
250	3-2	3-4	3-6	3-9	4-0	4-2	4-5	4-8	4-10	5-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 14 OF 215		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH821.14	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span:	300.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	1-3	1-4	1-4	1-5	1-5	1-6	1-7	1-7	1-8	1-8
175	1-9	1-10	1-10	1-11	2-0	2-1	2-1	2-2	2-3	2-3
200	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0
225	2-10	3-0	3-1	3-2	3-3	3-5	3-6	3-7	3-8	3-9
250	3-7	3-8	3-10	3-11	4-1	4-2	4-4	4-5	4-6	4-8
275	4-4	4-5	4-7	4-9	4-11	5-1	5-2	5-4	5-6	5-8
300	5-1	5-3	5-6	5-8	5-10	6-0	6-2	6-4	6-6	6-8
325	6-0	6-3	6-5	6-8	6-10	7-1	7-3	7-6	7-8	7-10
350	6-11	7-2	7-5	7-8	7-11	8-2	8-5	8-8	8-11	9-2
375	8-0	8-3	8-7	8-10	9-1	9-5	9-8	9-11	10-3	10-6

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	1-3	1-4	1-5	1-5	1-6	1-6	1-7	1-7	1-8	1-8
175	1-9	1-10	1-11	1-11	2-0	2-1	2-1	2-2	2-3	2-4
200	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0
225	2-11	3-0	3-1	3-2	3-4	3-5	3-6	3-7	3-8	3-9
250	3-7	3-8	3-10	3-11	4-1	4-2	4-4	4-5	4-7	4-8
275	4-4	4-6	4-8	4-9	4-11	5-1	5-3	5-5	5-6	5-8
300	5-2	5-4	5-6	5-8	5-10	6-1	6-3	6-5	6-7	6-9
325	6-1	6-3	6-6	6-8	6-11	7-1	7-4	7-6	7-9	7-11
350	7-0	7-3	7-6	7-9	8-0	8-3	8-6	8-9	8-11	9-2
375	8-1	8-4	8-7	8-11	9-2	9-6	9-9	10-0	10-3	10-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D							
SHEET 15 OF 215		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH821.15
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS											

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	2-5	2-6	2-6	2-7	2-8	2-8	2-9	2-9	2-10	2-10
225	3-1	3-2	3-3	3-3	3-4	3-5	3-6	3-6	3-7	3-8
250	3-10	3-11	4-0	4-0	4-1	4-2	4-3	4-4	4-5	4-6
275	4-7	4-8	4-10	4-11	5-0	5-1	5-2	5-3	5-4	5-5
300	5-6	5-7	5-9	5-10	5-11	6-0	6-2	6-3	6-4	6-6
325	6-5	6-7	6-8	6-10	7-0	7-1	7-3	7-4	7-6	7-7
350	7-6	7-7	7-9	7-11	8-1	8-3	8-4	8-6	8-8	8-10
375	8-7	8-9	8-11	9-1	9-3	9-5	9-7	9-9	9-11	10-1
400	9-9	9-11	10-2	10-4	10-7	10-9	10-11	11-2	11-4	11-6
425	11-0	11-3	11-6	11-8	11-11	12-2	12-4	12-7	12-9	13-0
450	12-4	12-7	12-10	13-1	13-4	13-7	13-10	14-1	14-4	14-7
475	13-9	14-0	14-4	14-7	14-11	15-2	15-5	15-8	16-0	16-3
500	15-3	15-7	15-10	16-2	16-6	16-10	17-1	17-5	17-8	18-0

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	2-5	2-6	2-7	2-7	2-8	2-8	2-9	2-9	2-10	2-11
225	3-1	3-2	3-3	3-3	3-4	3-5	3-6	3-6	3-7	3-8
250	3-10	3-11	4-0	4-1	4-2	4-3	4-3	4-4	4-5	4-6
275	4-8	4-9	4-10	4-11	5-0	5-1	5-2	5-3	5-4	5-5
300	5-6	5-7	5-9	5-10	5-11	6-1	6-2	6-3	6-5	6-6
325	6-6	6-7	6-9	6-10	7-0	7-1	7-3	7-4	7-6	7-7
350	7-6	7-8	7-10	8-0	8-1	8-3	8-5	8-7	8-8	8-10
375	8-7	8-9	9-0	9-2	9-4	9-6	9-8	9-10	10-0	10-2
400	9-10	10-0	10-2	10-5	10-7	10-9	11-0	11-2	11-4	11-7
425	11-1	11-4	11-6	11-9	12-0	12-2	12-5	12-7	12-10	13-0
450	12-5	12-8	12-11	13-2	13-5	13-8	13-11	14-2	14-5	14-7
475	13-10	14-1	14-5	14-8	14-11	15-3	15-6	15-9	16-0	16-3
500	15-4	15-8	15-11	16-3	16-7	16-10	17-2	17-6	17-9	18-1

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>16 OF 215</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.16
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.809	2.02	2000	2.02	2000*
25	0	0	0	0.481	1.37	1755	1.36	1768
30	0	0	0	0.481	1.41	1702	1.4	1719
40	0	0	0	0.481	1.5	1601	1.48	1622
50	0	0	0	0.481	1.6	1503	1.57	1528
60	0	0	0	0.481	1.7	1411	1.67	1438
70	0	0	0	0.481	1.82	1324	1.78	1352
80	0	0	0	0.481	1.94	1243	1.89	1271
90	0	0	0	0.481	2.06	1167	2.01	1195
100	0	0	0	0.481	2.19	1098	2.14	1124
110	0	0	0	0.481	2.33	1034	2.27	1059
120	0	0	0	0.481	2.46	977	2.41	999
130	0	0	0	0.481	2.6	924	2.55	944
167	0	0	0	0.481	3.12	770	3.07	784
212	0	0	0	0.481	3.67	655	3.61	668
* Design Condition								

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 18 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.18
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	0.809	12.68	2000	12.68	2000*
25	0	0	0	0.481	11.14	1352	11.05	1363
30	0	0	0	0.481	11.26	1337	11.18	1347
40	0	0	0	0.481	11.52	1308	11.43	1318
50	0	0	0	0.481	11.77	1280	11.68	1290
60	0	0	0	0.481	12.01	1254	11.92	1264
70	0	0	0	0.481	12.26	1229	12.17	1238
80	0	0	0	0.481	12.5	1205	12.41	1214
90	0	0	0	0.481	12.75	1182	12.66	1191
100	0	0	0	0.481	12.99	1161	12.9	1168
110	0	0	0	0.481	13.22	1140	13.14	1147
120	0	0	0	0.481	13.46	1120	13.38	1127
130	0	0	0	0.481	13.69	1101	13.61	1108
167	0	0	0	0.481	14.54	1038	14.47	1042
212	0	0	0	0.481	15.5	974	15.42	978

* Design Condition

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET
20 OF 215

Indicates Latest Revision

Completely Revised

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New Page

Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.20

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4
100	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7
125	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11
150	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-2	1-3	1-4
175	0-11	1-0	1-1	1-1	1-2	1-4	1-5	1-6	1-8	1-10
200	1-2	1-3	1-4	1-6	1-7	1-8	1-10	2-0	2-2	2-5

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4
100	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8
125	0-6	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-0
150	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5
175	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-9	1-11
200	1-3	1-4	1-5	1-6	1-7	1-9	1-11	2-1	2-4	2-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 21 OF 215	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	OH821.21
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS						

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-6	0-7
125	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11
150	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-2	1-3
175	1-0	1-1	1-2	1-2	1-3	1-4	1-5	1-7	1-8	1-9
200	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-2	2-3
225	1-8	1-9	1-11	2-0	2-1	2-3	2-5	2-7	2-9	2-11
250	2-1	2-2	2-4	2-6	2-7	2-9	3-0	3-2	3-4	3-7

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-7	0-7
125	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11
150	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-4
175	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
200	1-4	1-5	1-6	1-7	1-8	1-10	1-11	2-1	2-2	2-4
225	1-8	1-9	1-11	2-0	2-2	2-4	2-5	2-7	2-9	2-11
250	2-1	2-2	2-4	2-6	2-8	2-10	3-0	3-3	3-5	3-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 22 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH821.22
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-2	1-3
175	1-2	1-2	1-3	1-4	1-4	1-5	1-6	1-7	1-7	1-8
200	1-6	1-7	1-8	1-8	1-9	1-10	1-11	2-0	2-1	2-2
225	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-7	2-8	2-9
250	2-4	2-5	2-7	2-8	2-9	2-11	3-0	3-2	3-3	3-5
275	2-10	2-11	3-1	3-3	3-4	3-6	3-8	3-10	4-0	4-2
300	3-4	3-6	3-8	3-10	4-0	4-2	4-4	4-6	4-9	4-11
325	3-11	4-1	4-4	4-6	4-8	4-11	5-1	5-4	5-7	5-9
350	4-7	4-9	5-0	5-3	5-5	5-8	5-11	6-2	6-5	6-8
375	5-3	5-6	5-9	6-0	6-3	6-6	6-10	7-1	7-5	7-8

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3
175	1-2	1-2	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-8
200	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3
225	1-11	2-0	2-1	2-2	2-3	2-5	2-6	2-7	2-8	2-10
250	2-4	2-5	2-7	2-8	2-10	2-11	3-1	3-2	3-4	3-5
275	2-10	3-0	3-1	3-3	3-5	3-7	3-9	3-10	4-0	4-2
300	3-4	3-6	3-9	3-11	4-1	4-3	4-5	4-7	4-10	5-0
325	4-0	4-2	4-4	4-7	4-9	5-0	5-2	5-5	5-8	5-10
350	4-7	4-10	5-1	5-3	5-6	5-9	6-0	6-3	6-6	6-9
375	5-3	5-6	5-10	6-1	6-4	6-8	6-11	7-2	7-6	7-9

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 23 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH821.23
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	1-8	1-8	1-9	1-10	1-10	1-11	2-0	2-0	2-1	2-2
225	2-1	2-2	2-3	2-3	2-4	2-5	2-6	2-7	2-8	2-8
250	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4
275	3-1	3-2	3-4	3-5	3-6	3-7	3-9	3-10	3-11	4-0
300	3-8	3-10	3-11	4-1	4-2	4-4	4-5	4-7	4-8	4-10
325	4-4	4-6	4-7	4-9	4-11	5-1	5-2	5-4	5-6	5-8
350	5-0	5-2	5-4	5-6	5-8	5-10	6-0	6-2	6-4	6-6
375	5-9	5-11	6-2	6-4	6-6	6-9	6-11	7-1	7-4	7-6
400	6-7	6-9	7-0	7-2	7-5	7-8	7-10	8-1	8-4	8-6
425	7-5	7-8	7-11	8-2	8-5	8-8	8-11	9-2	9-5	9-8
450	8-3	8-7	8-10	9-1	9-5	9-8	10-0	10-3	10-6	10-10
475	9-3	9-6	9-10	10-2	10-6	10-9	11-1	11-5	11-9	12-0
500	10-3	10-7	10-11	11-3	11-7	11-11	12-4	12-8	13-0	13-4

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	1-8	1-8	1-9	1-10	1-11	1-11	2-0	2-0	2-1	2-2
225	2-1	2-2	2-3	2-4	2-4	2-5	2-6	2-7	2-8	2-9
250	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-3	3-4
275	3-1	3-3	3-4	3-5	3-7	3-8	3-9	3-10	4-0	4-1
300	3-9	3-10	4-0	4-1	4-3	4-4	4-6	4-7	4-9	4-10
325	4-4	4-6	4-8	4-10	4-11	5-1	5-3	5-5	5-6	5-8
350	5-1	5-3	5-5	5-7	5-9	5-11	6-1	6-3	6-5	6-7
375	5-10	6-0	6-2	6-5	6-7	6-9	7-0	7-2	7-4	7-7
400	6-7	6-10	7-1	7-3	7-6	7-9	7-11	8-2	8-5	8-7
425	7-6	7-9	8-0	8-3	8-6	8-9	9-0	9-3	9-6	9-9
450	8-4	8-8	8-11	9-3	9-6	9-9	10-1	10-4	10-7	10-11
475	9-4	9-8	9-11	10-3	10-7	10-11	11-3	11-6	11-10	12-2
500	10-4	10-8	11-0	11-5	11-9	12-1	12-5	12-9	13-1	13-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 24 OF 215		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH821.24
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	2-9	2-10	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-3
275	3-4	3-5	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0
300	3-11	4-0	4-1	4-2	4-3	4-5	4-6	4-7	4-8	4-9
325	4-7	4-9	4-10	4-11	5-0	5-2	5-3	5-4	5-5	5-7
350	5-4	5-6	5-7	5-9	5-10	6-0	6-1	6-2	6-4	6-5
375	6-2	6-3	6-5	6-7	6-8	6-10	7-0	7-1	7-3	7-5
400	7-0	7-2	7-4	7-6	7-8	7-9	7-11	8-1	8-3	8-5
425	7-11	8-1	8-3	8-5	8-7	8-9	9-0	9-2	9-4	9-6
450	8-10	9-1	9-3	9-5	9-8	9-10	10-1	10-3	10-5	10-8
475	9-10	10-1	10-4	10-6	10-9	11-0	11-2	11-5	11-8	11-10
500	10-11	11-2	11-5	11-8	11-11	12-2	12-5	12-8	12-11	13-2
525	12-1	12-4	12-7	12-10	13-2	13-5	13-8	13-11	14-3	14-6
550	13-3	13-6	13-10	14-2	14-5	14-9	15-0	15-4	15-7	15-11
575	14-5	14-9	15-1	15-5	15-9	16-1	16-5	16-9	17-1	17-5
600	15-9	16-1	16-6	16-10	17-2	17-6	17-11	18-3	18-7	18-11
625	17-1	17-6	17-10	18-3	18-8	19-0	19-5	19-9	20-2	20-6

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	2-9	2-10	2-11	2-11	3-0	3-1	3-1	3-2	3-3	3-4
275	3-4	3-5	3-6	3-7	3-8	3-8	3-9	3-10	3-11	4-0
300	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9
325	4-8	4-9	4-10	5-0	5-1	5-2	5-3	5-5	5-6	5-7
350	5-5	5-6	5-8	5-9	5-11	6-0	6-1	6-3	6-4	6-6
375	6-2	6-4	6-6	6-7	6-9	6-11	7-0	7-2	7-4	7-5
400	7-1	7-2	7-4	7-6	7-8	7-10	8-0	8-2	8-4	8-6
425	7-11	8-2	8-4	8-6	8-8	8-10	9-0	9-2	9-5	9-7
450	8-11	9-1	9-4	9-6	9-9	9-11	10-2	10-4	10-6	10-9
475	9-11	10-2	10-5	10-7	10-10	11-1	11-3	11-6	11-9	11-11
500	11-0	11-3	11-6	11-9	12-0	12-3	12-6	12-9	13-0	13-3
525	12-2	12-5	12-8	13-0	13-3	13-6	13-9	14-1	14-4	14-7
550	13-4	13-8	13-11	14-3	14-6	14-10	15-2	15-5	15-9	16-0
575	14-7	14-11	15-3	15-7	15-11	16-3	16-7	16-10	17-2	17-6
600	15-10	16-3	16-7	16-11	17-4	17-8	18-0	18-4	18-9	19-1
625	17-2	17-7	18-0	18-5	18-9	19-2	19-7	19-11	20-4	20-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D							
SHEET 25 OF 215		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH821.25
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 500' RULING SPAN GO95 LIGHT LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS											

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>27 OF 215</h2> </div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH821.27	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.712	56.23	1000	56.23	1000*
0	0	0	0	0.481	55.86	283	55.83	283
30	0	0	0	0.481	56.06	282	56.04	282
40	0	0	0	0.481	56.13	281	56.11	281
50	0	0	0	0.481	56.2	281	56.18	281
60	0	0	0	0.481	56.27	281	56.25	281
70	0	0	0	0.481	56.34	280	56.32	280
80	0	0	0	0.481	56.41	280	56.39	280
90	0	0	0	0.481	56.47	280	56.46	280
100	0	0	0	0.481	56.54	279	56.53	280
110	0	0	0	0.481	56.61	279	56.59	279
120	0	0	0	0.481	56.68	279	56.65	279
130	0	0	0	0.481	56.74	279	56.71	279
167	0	0	0	0.481	56.97	278	56.94	278
212	0	0	0	0.481	57.25	276	57.22	277
* Design Condition								

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

Completely Revised

	X
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Information Removed

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.28

SHEET
28 OF 215

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	1-1	1-1	1-2	1-2	1-3	1-3	1-3	1-4	1-4	1-5
100	1-11	1-11	2-0	2-1	2-2	2-3	2-3	2-4	2-5	2-5
125	2-11	3-1	3-2	3-3	3-4	3-6	3-7	3-8	3-9	3-10
150	4-3	4-5	4-7	4-9	4-10	5-0	5-2	5-3	5-5	5-6
175	5-9	6-0	6-2	6-5	6-7	6-10	7-0	7-2	7-4	7-6
200	7-7	7-10	8-1	8-5	8-8	8-11	9-2	9-5	9-8	9-10

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-4	1-5
100	1-11	2-0	2-1	2-1	2-2	2-3	2-4	2-4	2-5	2-6
125	3-0	3-1	3-2	3-4	3-5	3-6	3-7	3-8	3-9	3-10
150	4-4	4-5	4-7	4-9	4-11	5-1	5-2	5-4	5-5	5-7
175	5-10	6-1	6-3	6-6	6-8	6-10	7-1	7-3	7-5	7-7
200	7-8	7-11	8-2	8-6	8-9	9-0	9-3	9-6	9-8	9-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET 29 OF 215</div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH821.29
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span:	200.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	2-1	2-1	2-1	2-2	2-2	2-2	2-2	2-2	2-3	2-3
125	3-3	3-3	3-4	3-4	3-4	3-5	3-5	3-5	3-6	3-6
150	4-8	4-9	4-9	4-10	4-10	4-11	4-11	5-0	5-0	5-0
175	6-5	6-5	6-6	6-7	6-7	6-8	6-9	6-9	6-10	6-10
200	8-4	8-5	8-6	8-7	8-8	8-9	8-9	8-10	8-11	9-0
225	10-7	10-8	10-9	10-10	10-11	11-0	11-1	11-2	11-3	11-4
250	13-1	13-2	13-4	13-5	13-6	13-8	13-9	13-10	13-11	14-0

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	2-1	2-1	2-2	2-2	2-2	2-2	2-2	2-3	2-3	2-3
125	3-3	3-4	3-4	3-4	3-5	3-5	3-5	3-5	3-6	3-6
150	4-9	4-9	4-9	4-10	4-10	4-11	4-11	5-0	5-0	5-1
175	6-5	6-6	6-6	6-7	6-8	6-8	6-9	6-9	6-10	6-11
200	8-5	8-5	8-6	8-7	8-8	8-9	8-10	8-10	8-11	9-0
225	10-7	10-8	10-10	10-11	11-0	11-1	11-2	11-3	11-4	11-5
250	13-1	13-3	13-4	13-5	13-7	13-8	13-9	13-10	14-0	14-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 30 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH821.30
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS										

Stringing Sag Table Using Initial Sag							Ruling Span:	300.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	4-10	4-10	4-10	4-10	4-11	4-11	4-11	4-11	4-11	5-0
175	6-7	6-7	6-7	6-7	6-8	6-8	6-8	6-9	6-9	6-9
200	8-7	8-7	8-8	8-8	8-8	8-9	8-9	8-9	8-10	8-10
225	10-10	10-11	10-11	11-0	11-0	11-1	11-1	11-1	11-2	11-2
250	13-5	13-5	13-6	13-7	13-7	13-8	13-8	13-9	13-9	13-10
275	16-3	16-3	16-4	16-5	16-6	16-6	16-7	16-8	16-8	16-9
300	19-4	19-5	19-6	19-6	19-7	19-8	19-9	19-10	19-11	19-11
325	22-8	22-9	22-10	22-11	23-0	23-1	23-2	23-3	23-4	23-5
350	26-4	26-5	26-7	26-8	26-9	26-10	26-11	27-0	27-1	27-2
375	30-4	30-5	30-6	30-8	30-9	30-10	30-11	31-1	31-2	31-3

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	4-10	4-10	4-10	4-10	4-11	4-11	4-11	4-11	4-11	5-0
175	6-7	6-7	6-7	6-8	6-8	6-8	6-8	6-9	6-9	6-9
200	8-7	8-7	8-8	8-8	8-8	8-9	8-9	8-9	8-10	8-10
225	10-10	10-11	10-11	11-0	11-0	11-1	11-1	11-2	11-2	11-2
250	13-5	13-6	13-6	13-7	13-7	13-8	13-8	13-9	13-10	13-10
275	16-3	16-4	16-4	16-5	16-6	16-6	16-7	16-8	16-8	16-9
300	19-4	19-5	19-6	19-7	19-8	19-8	19-9	19-10	19-11	20-0
325	22-9	22-10	22-11	23-0	23-1	23-2	23-3	23-4	23-5	23-5
350	26-5	26-6	26-7	26-8	26-9	26-10	26-11	27-1	27-2	27-3
375	30-4	30-5	30-7	30-8	30-9	30-11	31-0	31-1	31-2	31-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D							
SHEET 31 OF 215		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH821.31
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS											

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	8-8	8-9	8-9	8-9	8-9	8-9	8-10	8-10	8-10	8-10
225	11-0	11-0	11-1	11-1	11-1	11-1	11-2	11-2	11-2	11-2
250	13-7	13-8	13-8	13-8	13-9	13-9	13-9	13-10	13-10	13-10
275	16-6	16-6	16-7	16-7	16-7	16-8	16-8	16-9	16-9	16-9
300	19-8	19-8	19-9	19-9	19-9	19-10	19-10	19-11	19-11	20-0
325	23-1	23-1	23-2	23-2	23-3	23-4	23-4	23-5	23-5	23-6
350	26-9	26-10	26-11	26-11	27-0	27-1	27-1	27-2	27-2	27-3
375	30-9	30-10	30-11	30-11	31-0	31-1	31-2	31-2	31-3	31-4
400	35-1	35-1	35-2	35-3	35-4	35-5	35-6	35-7	35-7	35-8
425	39-7	39-8	39-9	39-10	39-11	40-0	40-1	40-2	40-3	40-4
450	44-6	44-7	44-8	44-9	44-10	44-11	45-0	45-1	45-2	45-3
475	49-8	49-9	49-10	49-11	50-0	50-2	50-3	50-4	50-5	50-6
500	55-1	55-2	55-4	55-5	55-6	55-8	55-9	55-10	56-0	56-1

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	8-8	8-9	8-9	8-9	8-9	8-9	8-10	8-10	8-10	8-10
225	11-0	11-1	11-1	11-1	11-1	11-2	11-2	11-2	11-2	11-3
250	13-7	13-8	13-8	13-8	13-9	13-9	13-9	13-10	13-10	13-10
275	16-6	16-6	16-7	16-7	16-7	16-8	16-8	16-9	16-9	16-9
300	19-8	19-8	19-9	19-9	19-10	19-10	19-10	19-11	19-11	20-0
325	23-1	23-1	23-2	23-3	23-3	23-4	23-4	23-5	23-5	23-6
350	26-10	26-10	26-11	26-11	27-0	27-1	27-1	27-2	27-3	27-3
375	30-10	30-10	30-11	31-0	31-0	31-1	31-2	31-3	31-3	31-4
400	35-1	35-2	35-3	35-3	35-4	35-5	35-6	35-7	35-8	35-8
425	39-8	39-9	39-10	39-11	40-0	40-1	40-1	40-2	40-3	40-4
450	44-6	44-7	44-8	44-9	44-10	44-11	45-1	45-2	45-3	45-4
475	49-8	49-9	49-10	50-0	50-1	50-2	50-3	50-4	50-5	50-7
500	55-1	55-3	55-4	55-5	55-7	55-8	55-9	55-11	56-0	56-1

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 32 OF 215		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH821.32	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>35 OF 215</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.35
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.712	36.44	1500	36.44	1500*
0	0	0	0	0.481	35.58	431	35.52	432
30	0	0	0	0.481	35.89	427	35.84	428
40	0	0	0	0.481	36	426	35.95	427
50	0	0	0	0.481	36.1	425	36.05	426
60	0	0	0	0.481	36.2	424	36.16	424
70	0	0	0	0.481	36.31	423	36.26	423
80	0	0	0	0.481	36.41	422	36.37	422
90	0	0	0	0.481	36.51	420	36.47	421
100	0	0	0	0.481	36.61	419	36.58	420
110	0	0	0	0.481	36.72	418	36.68	419
120	0	0	0	0.481	36.82	417	36.78	418
130	0	0	0	0.481	36.92	416	36.87	417
167	0	0	0	0.481	37.26	412	37.21	413
212	0	0	0	0.481	37.67	408	37.62	409
* Design Condition								

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET
36 OF 215

Indicates Latest Revision

Completely Revised



New Page

Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.36

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-10	0-11
100	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7
125	1-4	1-5	1-7	1-9	1-10	2-0	2-2	2-3	2-5	2-6
150	1-11	2-1	2-4	2-6	2-8	2-11	3-1	3-3	3-6	3-8
175	2-7	2-10	3-1	3-5	3-8	3-11	4-2	4-6	4-9	5-0
200	3-5	3-9	4-1	4-5	4-9	5-2	5-6	5-10	6-2	6-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11	0-11
100	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
125	1-5	1-6	1-8	1-9	1-11	2-1	2-2	2-4	2-5	2-7
150	2-0	2-2	2-5	2-7	2-9	3-0	3-2	3-4	3-6	3-9
175	2-8	3-0	3-3	3-6	3-9	4-1	4-4	4-7	4-10	5-1
200	3-6	3-11	4-3	4-7	4-11	5-3	5-8	6-0	6-4	6-7

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 37 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH821.37
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-3	1-3	1-4	1-4	1-4	1-5	1-5	1-5	1-6	1-6
125	2-0	2-0	2-1	2-1	2-2	2-2	2-3	2-3	2-3	2-4
150	2-10	2-11	2-11	3-0	3-1	3-2	3-2	3-3	3-4	3-4
175	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7
200	5-0	5-2	5-3	5-4	5-5	5-7	5-8	5-9	5-10	5-11
225	6-4	6-6	6-8	6-9	6-11	7-0	7-2	7-4	7-5	7-6
250	7-10	8-0	8-2	8-4	8-6	8-8	8-10	9-0	9-2	9-4

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-3	1-4	1-4	1-4	1-4	1-5	1-5	1-5	1-6	1-6
125	2-0	2-0	2-1	2-1	2-2	2-2	2-3	2-3	2-4	2-4
150	2-10	2-11	3-0	3-0	3-1	3-2	3-2	3-3	3-4	3-4
175	3-11	4-0	4-1	4-2	4-3	4-3	4-4	4-5	4-6	4-7
200	5-1	5-2	5-4	5-5	5-6	5-7	5-8	5-10	5-11	6-0
225	6-5	6-7	6-8	6-10	7-0	7-1	7-3	7-4	7-6	7-7
250	7-11	8-1	8-3	8-5	8-7	8-9	8-11	9-1	9-3	9-4

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 38 OF 215		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH821.38
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	3-1	3-1	3-1	3-2	3-2	3-2	3-3	3-3	3-3	3-3
175	4-2	4-2	4-3	4-3	4-4	4-4	4-4	4-5	4-5	4-6
200	5-5	5-6	5-6	5-7	5-7	5-8	5-9	5-9	5-10	5-10
225	6-11	6-11	7-0	7-1	7-1	7-2	7-3	7-3	7-4	7-5
250	8-6	8-7	8-8	8-9	8-9	8-10	8-11	9-0	9-1	9-2
275	10-3	10-4	10-6	10-7	10-8	10-9	10-10	10-11	11-0	11-1
300	12-3	12-4	12-5	12-7	12-8	12-9	12-10	13-0	13-1	13-2
325	14-4	14-6	14-7	14-9	14-10	15-0	15-1	15-3	15-4	15-6
350	16-8	16-10	17-0	17-1	17-3	17-5	17-6	17-8	17-10	17-11
375	19-2	19-4	19-6	19-8	19-10	20-0	20-2	20-4	20-6	20-7

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	3-1	3-1	3-1	3-2	3-2	3-2	3-3	3-3	3-3	3-4
175	4-2	4-3	4-3	4-3	4-4	4-4	4-5	4-5	4-5	4-6
200	5-5	5-6	5-7	5-7	5-8	5-8	5-9	5-9	5-10	5-10
225	6-11	7-0	7-0	7-1	7-2	7-2	7-3	7-4	7-4	7-5
250	8-6	8-7	8-8	8-9	8-10	8-11	9-0	9-0	9-1	9-2
275	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-11	11-0	11-1
300	12-4	12-5	12-6	12-7	12-9	12-10	12-11	13-0	13-1	13-3
325	14-5	14-7	14-8	14-10	14-11	15-1	15-2	15-3	15-5	15-6
350	16-9	16-11	17-0	17-2	17-4	17-5	17-7	17-9	17-10	18-0
375	19-3	19-5	19-7	19-9	19-11	20-1	20-2	20-4	20-6	20-8

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 39 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.39
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.712	27.07	2000	27.07	2000*
0	0	0	0	0.481	25.55	595	25.44	597
30	0	0	0	0.481	25.97	585	25.87	587
40	0	0	0	0.481	26.11	582	26.01	584
50	0	0	0	0.481	26.25	579	26.15	581
60	0	0	0	0.481	26.39	576	26.29	578
70	0	0	0	0.481	26.53	573	26.43	575
80	0	0	0	0.481	26.66	570	26.57	572
90	0	0	0	0.481	26.8	567	26.71	569
100	0	0	0	0.481	26.94	565	26.85	566
110	0	0	0	0.481	27.07	562	26.99	563
120	0	0	0	0.481	27.21	559	27.13	561
130	0	0	0	0.481	27.34	556	27.27	558
167	0	0	0	0.481	27.8	547	27.72	549
212	0	0	0	0.481	28.34	537	28.26	539

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

Indicates Latest Revision	Completely Revised	X	New Page	Information Removed
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.44

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7
100	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-0
125	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-7
150	1-0	1-1	1-2	1-3	1-5	1-7	1-9	1-11	2-1	2-4
175	1-4	1-6	1-7	1-9	1-11	2-2	2-4	2-7	2-10	3-1
200	1-9	1-11	2-1	2-4	2-6	2-9	3-1	3-5	3-9	4-1

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-7
100	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1
125	0-9	0-9	0-10	0-11	1-0	1-2	1-3	1-5	1-6	1-8
150	1-0	1-1	1-3	1-4	1-6	1-8	1-10	2-0	2-3	2-5
175	1-5	1-6	1-8	1-10	2-0	2-3	2-6	2-9	3-0	3-3
200	1-10	2-0	2-2	2-5	2-8	2-11	3-3	3-7	3-11	4-3

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 45 OF 215		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH821.45
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN GO95 HEAVY LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-9	0-9	0-10	0-10	0-11	0-11	0-11	1-0	1-0	1-1
125	1-2	1-3	1-3	1-4	1-5	1-5	1-6	1-7	1-7	1-8
150	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-4
175	2-4	2-5	2-6	2-8	2-9	2-10	2-11	3-0	3-2	3-3
200	3-0	3-2	3-4	3-5	3-7	3-8	3-10	4-0	4-1	4-3
225	3-10	4-0	4-2	4-4	4-6	4-8	4-10	5-0	5-2	5-4
250	4-9	4-11	5-2	5-4	5-7	5-9	6-0	6-2	6-5	6-7

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-9	0-10	0-10	0-11	0-11	0-11	1-0	1-0	1-0	1-1
125	1-3	1-3	1-4	1-5	1-5	1-6	1-6	1-7	1-8	1-8
150	1-9	1-10	1-11	2-0	2-1	2-2	2-2	2-3	2-4	2-5
175	2-5	2-6	2-7	2-8	2-10	2-11	3-0	3-1	3-2	3-3
200	3-1	3-3	3-5	3-6	3-8	3-9	3-11	4-1	4-2	4-3
225	3-11	4-1	4-3	4-5	4-8	4-10	4-11	5-1	5-3	5-5
250	4-10	5-1	5-4	5-6	5-9	5-11	6-1	6-4	6-6	6-8

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>46 OF 215</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.46
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	2-1	2-1	2-2	2-2	2-3	2-3	2-4	2-4	2-4	2-5
175	2-10	2-11	2-11	3-0	3-0	3-1	3-1	3-2	3-3	3-3
200	3-8	3-9	3-10	3-11	3-11	4-0	4-1	4-2	4-2	4-3
225	4-8	4-9	4-10	4-11	5-0	5-1	5-2	5-3	5-4	5-5
250	5-9	5-11	6-0	6-1	6-2	6-3	6-5	6-6	6-7	6-8
275	7-0	7-2	7-3	7-4	7-6	7-7	7-9	7-10	7-11	8-1
300	8-4	8-6	8-8	8-9	8-11	9-1	9-2	9-4	9-6	9-7
325	9-9	9-11	10-2	10-4	10-6	10-7	10-9	10-11	11-1	11-3
350	11-4	11-7	11-9	11-11	12-2	12-4	12-6	12-8	12-11	13-1
375	13-0	13-3	13-6	13-9	13-11	14-2	14-4	14-7	14-10	15-0

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	2-1	2-2	2-2	2-3	2-3	2-3	2-4	2-4	2-5	2-5
175	2-10	2-11	3-0	3-0	3-1	3-1	3-2	3-2	3-3	3-3
200	3-9	3-10	3-11	3-11	4-0	4-1	4-1	4-2	4-3	4-4
225	4-9	4-10	4-11	5-0	5-1	5-2	5-3	5-3	5-4	5-5
250	5-10	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-9
275	7-1	7-3	7-4	7-5	7-7	7-8	7-10	7-11	8-0	8-2
300	8-5	8-7	8-9	8-10	9-0	9-2	9-3	9-5	9-7	9-8
325	9-11	10-1	10-3	10-5	10-7	10-9	10-11	11-1	11-2	11-4
350	11-6	11-8	11-11	12-1	12-3	12-5	12-8	12-10	13-0	13-2
375	13-2	13-5	13-8	13-10	14-1	14-4	14-6	14-9	14-11	15-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 47 OF 215		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH821.47
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span:		400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	4-0	4-0	4-1	4-1	4-1	4-2	4-2	4-3	4-3	4-3
225	5-0	5-1	5-1	5-2	5-2	5-3	5-4	5-4	5-5	5-5
250	6-2	6-3	6-4	6-4	6-5	6-6	6-6	6-7	6-8	6-8
275	7-6	7-7	7-8	7-9	7-9	7-10	7-11	8-0	8-1	8-1
300	8-11	9-0	9-1	9-2	9-3	9-4	9-5	9-6	9-7	9-8
325	10-6	10-7	10-8	10-9	10-10	11-0	11-1	11-2	11-3	11-4
350	12-2	12-3	12-5	12-6	12-7	12-9	12-10	12-11	13-0	13-2
375	14-0	14-1	14-3	14-4	14-6	14-7	14-9	14-10	15-0	15-1
400	15-11	16-1	16-2	16-4	16-6	16-7	16-9	16-11	17-0	17-2
425	18-0	18-2	18-3	18-5	18-7	18-9	18-11	19-1	19-3	19-5
450	20-2	20-4	20-6	20-8	20-10	21-1	21-3	21-5	21-7	21-9
475	22-5	22-8	22-10	23-1	23-3	23-5	23-8	23-10	24-1	24-3
500	24-11	25-1	25-4	25-7	25-9	26-0	26-3	26-5	26-8	26-10


Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
200	4-0	4-0	4-1	4-1	4-2	4-2	4-2	4-3	4-3	4-4
225	5-1	5-1	5-2	5-2	5-3	5-3	5-4	5-4	5-5	5-5
250	6-3	6-4	6-4	6-5	6-6	6-6	6-7	6-7	6-8	6-9
275	7-7	7-8	7-8	7-9	7-10	7-11	7-11	8-0	8-1	8-2
300	9-0	9-1	9-2	9-3	9-4	9-5	9-6	9-7	9-7	9-8
325	10-7	10-8	10-9	10-10	10-11	11-0	11-1	11-2	11-3	11-5
350	12-3	12-4	12-6	12-7	12-8	12-9	12-11	13-0	13-1	13-2
375	14-1	14-2	14-4	14-5	14-7	14-8	14-10	14-11	15-0	15-2
400	16-0	16-2	16-4	16-5	16-7	16-9	16-10	17-0	17-1	17-3
425	18-1	18-3	18-5	18-7	18-9	18-10	19-0	19-2	19-4	19-6
450	20-3	20-5	20-8	20-10	21-0	21-2	21-4	21-6	21-8	21-10
475	22-7	22-10	23-0	23-2	23-5	23-7	23-9	24-0	24-2	24-4
500	25-1	25-3	25-6	25-9	25-11	26-2	26-4	26-7	26-9	27-0

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 48 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.48
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	6-5	6-5	6-6	6-6	6-7	6-7	6-8	6-8	6-8	6-9
275	7-9	7-10	7-10	7-11	7-11	8-0	8-0	8-1	8-1	8-2
300	9-3	9-3	9-4	9-5	9-5	9-6	9-7	9-7	9-8	9-8
325	10-10	10-11	11-0	11-0	11-1	11-2	11-2	11-3	11-4	11-5
350	12-7	12-8	12-9	12-9	12-10	12-11	13-0	13-1	13-2	13-2
375	14-5	14-6	14-7	14-8	14-9	14-10	14-11	15-0	15-1	15-2
400	16-5	16-6	16-8	16-9	16-10	16-11	17-0	17-1	17-2	17-3
425	18-7	18-8	18-9	18-11	19-0	19-1	19-2	19-3	19-5	19-6
450	20-10	20-11	21-1	21-2	21-3	21-5	21-6	21-7	21-9	21-10
475	23-3	23-4	23-6	23-7	23-9	23-10	24-0	24-1	24-3	24-4
500	25-9	25-10	26-0	26-2	26-4	26-5	26-7	26-9	26-10	27-0
525	28-4	28-6	28-8	28-10	29-0	29-2	29-4	29-6	29-7	29-9
550	31-2	31-4	31-6	31-8	31-10	32-0	32-2	32-4	32-6	32-8
575	34-1	34-3	34-5	34-8	34-10	35-0	35-2	35-4	35-7	35-9
600	37-1	37-4	37-6	37-9	37-11	38-2	38-4	38-6	38-9	38-11
625	40-3	40-6	40-9	40-11	41-2	41-5	41-7	41-10	42-1	42-3

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<div style="text-align: center;"> <p>SHEET</p> <p>49 OF 215</p> </div>	Indicates Latest Revision	Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH821.49</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 500' RULING SPAN GO95 HEAVY LOADING</p> <p>1/0 RTS TRIPLEX TENSION 2000 LBS</p> </div>					

* Design Condition

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 51 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.51
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	2-11	2-11	2-11	2-11	2-11	3-0	3-0	3-0	3-0	3-0
100	5-2	5-2	5-2	5-3	5-3	5-3	5-4	5-4	5-4	5-5
125	8-1	8-1	8-2	8-2	8-3	8-3	8-4	8-4	8-5	8-5
150	11-7	11-8	11-9	11-10	11-11	11-11	12-0	12-1	12-1	12-2
175	15-10	15-11	16-0	16-1	16-3	16-4	16-5	16-6	16-7	16-7
200	20-9	20-11	21-0	21-2	21-3	21-4	21-6	21-7	21-8	21-10

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	2-11	2-11	2-11	2-11	2-11	3-0	3-0	3-0	3-0	3-0
100	5-2	5-2	5-2	5-3	5-3	5-4	5-4	5-4	5-5	5-5
125	8-1	8-1	8-2	8-2	8-3	8-3	8-4	8-4	8-5	8-5
150	11-8	11-8	11-9	11-10	11-11	12-0	12-0	12-1	12-2	12-3
175	15-11	16-0	16-1	16-2	16-3	16-4	16-5	16-6	16-7	16-8
200	20-10	20-11	21-1	21-2	21-3	21-5	21-6	21-8	21-9	21-10

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 52 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.52
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5
125	8-5	8-5	8-5	8-6	8-6	8-6	8-6	8-6	8-6	8-6
150	12-2	12-2	12-2	12-3	12-3	12-3	12-3	12-3	12-3	12-4
175	16-7	16-8	16-8	16-8	16-8	16-9	16-9	16-9	16-9	16-10
200	21-9	21-10	21-10	21-10	21-11	21-11	21-11	22-0	22-0	22-0
225	27-8	27-8	27-9	27-9	27-10	27-10	27-11	27-11	27-11	28-0
250	34-4	34-4	34-5	34-5	34-6	34-7	34-7	34-8	34-8	34-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5
125	8-5	8-5	8-5	8-6	8-6	8-6	8-6	8-6	8-6	8-6
150	12-2	12-2	12-2	12-3	12-3	12-3	12-3	12-3	12-4	12-4
175	16-7	16-8	16-8	16-8	16-8	16-9	16-9	16-9	16-9	16-10
200	21-9	21-10	21-10	21-10	21-11	21-11	21-11	22-0	22-0	22-0
225	27-8	27-9	27-9	27-10	27-10	27-10	27-11	27-11	28-0	28-0
250	34-4	34-5	34-5	34-6	34-6	34-7	34-7	34-8	34-8	34-9

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<div>SHEET</div> <div>53 OF 215</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH821.53
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	12-10	12-10	12-10	12-10	12-10	12-10	12-10	12-11	12-11	12-11
175	17-6	17-6	17-7	17-7	17-7	17-7	17-7	17-7	17-7	17-7
200	23-0	23-0	23-0	23-0	23-0	23-1	23-1	23-1	23-1	23-1
225	29-3	29-3	29-3	29-3	29-3	29-4	29-4	29-4	29-4	29-4
250	36-3	36-3	36-4	36-4	36-4	36-4	36-4	36-5	36-5	36-5
275	44-1	44-2	44-2	44-2	44-3	44-3	44-3	44-3	44-4	44-4
300	52-10	52-10	52-11	52-11	52-11	53-0	53-0	53-0	53-1	53-1
325	62-5	62-5	62-6	62-6	62-6	62-7	62-7	62-8	62-8	62-8
350	72-11	72-11	73-0	73-0	73-1	73-1	73-2	73-2	73-2	73-3
375	84-4	84-4	84-5	84-6	84-6	84-7	84-7	84-8	84-8	84-9

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	12-10	12-10	12-10	12-10	12-10	12-10	12-11	12-11	12-11	12-11
175	17-6	17-6	17-7	17-7	17-7	17-7	17-7	17-7	17-7	17-7
200	23-0	23-0	23-0	23-0	23-0	23-1	23-1	23-1	23-1	23-1
225	29-3	29-3	29-3	29-3	29-3	29-4	29-4	29-4	29-4	29-4
250	36-3	36-3	36-4	36-4	36-4	36-4	36-5	36-5	36-5	36-5
275	44-2	44-2	44-2	44-2	44-3	44-3	44-3	44-3	44-4	44-4
300	52-10	52-10	52-11	52-11	52-11	53-0	53-0	53-0	53-1	53-1
325	62-5	62-5	62-6	62-6	62-7	62-7	62-7	62-8	62-8	62-9
350	72-11	72-11	73-0	73-0	73-1	73-1	73-2	73-2	73-3	73-3
375	84-4	84-5	84-5	84-6	84-6	84-7	84-7	84-8	84-8	84-9

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div>SHEET</div> <div>54 OF 215</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH821.54
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS					

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	4.182	60.98	1500	60.98	1500*
0	0	0	0	0.481	60.56	174	60.52	174
30	0	0	0	0.481	60.68	173	60.65	173
40	0	0	0	0.481	60.72	173	60.70	173
50	0	0	0	0.481	60.77	173	60.74	173
60	0	0	0	0.481	60.81	173	60.78	173
70	0	0	0	0.481	60.85	173	60.83	173
80	0	0	0	0.481	60.89	173	60.87	173
90	0	0	0	0.481	60.93	173	60.91	173
100	0	0	0	0.481	60.98	173	60.95	173
110	0	0	0	0.481	61.02	172	60.98	173
120	0	0	0	0.481	61.05	172	61.02	172
130	0	0	0	0.481	61.09	172	61.06	172
167	0	0	0	0.481	61.23	172	61.20	172
212	0	0	0	0.481	61.41	172	61.37	172

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>57 OF 215</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH821.57
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	4.182	101.72	1500	101.72	1500*
0	0	0	0	0.481	101.29	173	101.26	173
30	0	0	0	0.481	101.42	173	101.39	173
40	0	0	0	0.481	101.46	173	101.43	173
50	0	0	0	0.481	101.5	173	101.48	173
60	0	0	0	0.481	101.54	173	101.52	173
70	0	0	0	0.481	101.59	173	101.56	173
80	0	0	0	0.481	101.63	173	101.6	173
90	0	0	0	0.481	101.67	173	101.64	173
100	0	0	0	0.481	101.71	173	101.68	173
110	0	0	0	0.481	101.75	172	101.72	173
120	0	0	0	0.481	101.79	172	101.76	172
130	0	0	0	0.481	101.83	172	101.8	172
167	0	0	0	0.481	101.97	172	101.94	172
212	0	0	0	0.481	102.14	172	102.11	172
* Design Condition								

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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Indicates Latest Revision	Completely Revised	X	New Page	Information Removed
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

OH821.58

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75	1-9	1-9	1-10	1-10	1-10	1-11	1-11	1-11	1-11	2-0
100	3-1	3-2	3-2	3-3	3-4	3-4	3-5	3-5	3-6	3-6
125	4-10	4-11	5-0	5-1	5-2	5-3	5-4	5-4	5-5	5-6
150	7-0	7-1	7-3	7-4	7-5	7-6	7-8	7-9	7-10	7-11
175	9-7	9-8	9-10	10-0	10-2	10-3	10-5	10-6	10-8	10-9
200	12-6	12-8	12-11	13-1	13-3	13-5	13-7	13-9	13-11	14-1

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	1-9	1-10	1-10	1-10	1-10	1-11	1-11	1-11	2-0	2-0
100	3-2	3-2	3-3	3-3	3-4	3-4	3-5	3-5	3-6	3-6
125	4-11	5-0	5-1	5-2	5-2	5-3	5-4	5-5	5-6	5-6
150	7-1	7-2	7-4	7-5	7-6	7-7	7-8	7-9	7-11	8-0
175	9-8	9-10	9-11	10-1	10-3	10-4	10-6	10-7	10-9	10-10
200	12-8	12-10	13-0	13-2	13-4	13-6	13-9	13-11	14-1	14-3

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 59 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH821.59
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	3-5	3-5	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6
125	5-5	5-5	5-5	5-5	5-5	5-6	5-6	5-6	5-6	5-6
150	7-9	7-9	7-10	7-10	7-10	7-11	7-11	7-11	7-11	8-0
175	10-7	10-7	10-8	10-8	10-9	10-9	10-9	10-10	10-10	10-10
200	13-10	13-11	13-11	14-0	14-0	14-1	14-1	14-2	14-2	14-3
225	17-7	17-7	17-8	17-9	17-9	17-10	17-11	17-11	18-0	18-0
250	21-9	21-9	21-10	21-11	22-0	22-1	22-2	22-2	22-3	22-4

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	3-5	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-7
125	5-5	5-5	5-5	5-5	5-6	5-6	5-6	5-6	5-6	5-7
150	7-9	7-10	7-10	7-10	7-11	7-11	7-11	7-11	8-0	8-0
175	10-7	10-8	10-8	10-8	10-9	10-9	10-10	10-10	10-10	10-11
200	13-11	13-11	14-0	14-0	14-1	14-1	14-2	14-2	14-3	14-3
225	17-7	17-8	17-8	17-9	17-10	17-10	17-11	18-0	18-0	18-1
250	21-9	21-10	21-11	22-0	22-0	22-1	22-2	22-3	22-4	22-4

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 60 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.60
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	8-0	8-1	8-1	8-1	8-1	8-1	8-1	8-1	8-1	8-2
175	10-11	11-0	11-0	11-0	11-0	11-0	11-0	11-1	11-1	11-1
200	14-4	14-4	14-4	14-5	14-5	14-5	14-5	14-5	14-6	14-6
225	18-2	18-2	18-3	18-3	18-3	18-3	18-4	18-4	18-4	18-4
250	22-6	22-6	22-6	22-7	22-7	22-7	22-8	22-8	22-8	22-9
275	27-3	27-3	27-4	27-4	27-5	27-5	27-6	27-6	27-6	27-7
300	32-6	32-7	32-7	32-8	32-8	32-9	32-9	32-10	32-10	32-11
325	38-3	38-4	38-4	38-5	38-5	38-6	38-7	38-7	38-8	38-8
350	44-6	44-7	44-7	44-8	44-9	44-9	44-10	44-11	44-11	45-0
375	51-3	51-3	51-4	51-5	51-6	51-7	51-8	51-8	51-9	51-10

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	8-0	8-1	8-1	8-1	8-1	8-1	8-1	8-1	8-1	8-2
175	11-0	11-0	11-0	11-0	11-0	11-0	11-1	11-1	11-1	11-1
200	14-4	14-4	14-4	14-5	14-5	14-5	14-5	14-6	14-6	14-6
225	18-2	18-2	18-3	18-3	18-3	18-4	18-4	18-4	18-4	18-5
250	22-6	22-6	22-7	22-7	22-7	22-8	22-8	22-8	22-9	22-9
275	27-3	27-4	27-4	27-5	27-5	27-5	27-6	27-6	27-7	27-7
300	32-6	32-7	32-7	32-8	32-8	32-9	32-9	32-10	32-10	32-11
325	38-3	38-4	38-5	38-5	38-6	38-6	38-7	38-8	38-8	38-9
350	44-6	44-7	44-8	44-8	44-9	44-10	44-11	44-11	45-0	45-1
375	51-3	51-4	51-5	51-6	51-6	51-7	51-8	51-9	51-10	51-10

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SHEET 61 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH821.61
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS					

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>64 OF 215</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH821.64	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS									

Span =		400		ft				
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.182	43.84	2000	43.84	2000*
0	0	0	0	0.481	43.07	234	43.02	234
30	0	0	0	0.481	43.24	233	43.19	233
40	0	0	0	0.481	43.3	233	43.25	233
50	0	0	0	0.481	43.36	232	43.31	233
60	0	0	0	0.481	43.41	232	43.36	232
70	0	0	0	0.481	43.47	232	43.42	232
80	0	0	0	0.481	43.53	232	43.48	232
90	0	0	0	0.481	43.58	231	43.54	231
100	0	0	0	0.481	43.64	231	43.59	231
110	0	0	0	0.481	43.69	231	43.64	231
120	0	0	0	0.481	43.74	230	43.69	231
130	0	0	0	0.481	43.79	230	43.74	230
167	0	0	0	0.481	43.98	229	43.93	230
212	0	0	0	0.481	44.21	228	44.16	228

* Design Condition

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<div>SHEET</div> <div>65 OF 215</div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	OH821.65
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS						

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	4.182	70.59	2000	70.59	2000*
0	0	0	0	0.481	69.83	232	69.77	232
30	0	0	0	0.481	69.99	232	69.94	232
40	0	0	0	0.481	70.05	232	70	232
50	0	0	0	0.481	70.11	231	70.06	232
60	0	0	0	0.481	70.16	231	70.12	231
70	0	0	0	0.481	70.22	231	70.17	231
80	0	0	0	0.481	70.28	231	70.23	231
90	0	0	0	0.481	70.33	231	70.29	231
100	0	0	0	0.481	70.39	231	70.34	231
110	0	0	0	0.481	70.44	230	70.39	231
120	0	0	0	0.481	70.49	230	70.44	230
130	0	0	0	0.481	70.54	230	70.49	230
167	0	0	0	0.481	70.73	230	70.68	230
212	0	0	0	0.481	70.96	229	70.91	229
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>66 OF 215</h2> </div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		<div style="text-align: center;"> <h1>OH821.66</h1> </div>	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-4
100	1-10	1-11	2-0	2-1	2-1	2-2	2-3	2-4	2-4	2-5
125	2-11	3-0	3-1	3-3	3-4	3-5	3-6	3-7	3-9	3-10
150	4-2	4-4	4-6	4-8	4-9	4-11	5-1	5-3	5-4	5-6
175	5-8	5-11	6-1	6-4	6-6	6-9	6-11	7-1	7-3	7-5
200	7-5	7-8	8-0	8-3	8-6	8-9	9-0	9-3	9-6	9-9

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-4	1-5
100	1-11	2-0	2-1	2-1	2-2	2-3	2-4	2-4	2-5	2-6
125	3-0	3-1	3-2	3-4	3-5	3-6	3-7	3-8	3-9	3-10
150	4-4	4-5	4-7	4-9	4-11	5-1	5-2	5-4	5-5	5-7
175	5-10	6-1	6-3	6-6	6-8	6-10	7-1	7-3	7-5	7-7
200	7-8	7-11	8-2	8-6	8-9	9-0	9-3	9-6	9-9	9-11

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 67 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.67
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	2-5	2-6	2-6	2-6	2-6	2-6	2-7	2-7	2-7	2-7
125	3-10	3-10	3-11	3-11	3-11	3-11	4-0	4-0	4-0	4-1
150	5-6	5-7	5-7	5-8	5-8	5-8	5-9	5-9	5-10	5-10
175	7-6	7-7	7-8	7-8	7-9	7-9	7-10	7-10	7-11	7-11
200	9-10	9-11	10-0	10-0	10-1	10-2	10-3	10-3	10-4	10-5
225	12-6	12-7	12-8	12-9	12-9	12-10	12-11	13-0	13-1	13-2
250	15-5	15-6	15-7	15-8	15-10	15-11	16-0	16-1	16-2	16-3

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	2-6	2-6	2-6	2-6	2-6	2-7	2-7	2-7	2-7	2-7
125	3-10	3-11	3-11	3-11	3-11	4-0	4-0	4-0	4-1	4-1
150	5-7	5-7	5-8	5-8	5-8	5-9	5-9	5-10	5-10	5-10
175	7-7	7-7	7-8	7-9	7-9	7-10	7-10	7-11	7-11	8-0
200	9-11	10-0	10-0	10-1	10-2	10-2	10-3	10-4	10-4	10-5
225	12-7	12-7	12-8	12-9	12-10	12-11	13-0	13-1	13-2	13-2
250	15-6	15-7	15-8	15-9	15-11	16-0	16-1	16-2	16-3	16-4

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 68 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.68
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	5-10	5-10	5-10	5-10	5-11	5-11	5-11	5-11	5-11	5-11
175	7-11	7-11	8-0	8-0	8-0	8-0	8-1	8-1	8-1	8-1
200	10-4	10-5	10-5	10-5	10-6	10-6	10-6	10-7	10-7	10-7
225	13-2	13-2	13-2	13-3	13-3	13-4	13-4	13-4	13-5	13-5
250	16-3	16-3	16-4	16-4	16-5	16-5	16-6	16-6	16-7	16-7
275	19-8	19-8	19-9	19-10	19-10	19-11	19-11	20-0	20-1	20-1
300	23-5	23-6	23-6	23-7	23-8	23-9	23-9	23-10	23-11	23-11
325	27-6	27-7	27-8	27-9	27-10	27-10	27-11	28-0	28-1	28-2
350	32-0	32-1	32-2	32-3	32-4	32-5	32-5	32-6	32-7	32-8
375	36-9	36-10	36-11	37-1	37-2	37-3	37-4	37-5	37-6	37-7

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	5-10	5-10	5-10	5-11	5-11	5-11	5-11	5-11	5-11	6-0
175	7-11	8-0	8-0	8-0	8-0	8-1	8-1	8-1	8-1	8-1
200	10-5	10-5	10-5	10-6	10-6	10-6	10-6	10-7	10-7	10-7
225	13-2	13-2	13-3	13-3	13-3	13-4	13-4	13-5	13-5	13-5
250	16-3	16-4	16-4	16-5	16-5	16-6	16-6	16-6	16-7	16-7
275	19-8	19-9	19-10	19-10	19-11	19-11	20-0	20-0	20-1	20-2
300	23-6	23-6	23-7	23-8	23-8	23-9	23-10	23-11	23-11	24-0
325	27-7	27-8	27-9	27-10	27-10	27-11	28-0	28-1	28-2	28-2
350	32-1	32-2	32-2	32-3	32-4	32-5	32-6	32-7	32-8	32-9
375	36-10	36-11	37-0	37-1	37-3	37-4	37-5	37-6	37-7	37-8

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SHEET 69 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH821.69
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span: 400.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	10-8	10-8	10-8	10-8	10-9	10-9	10-9	10-9	10-9	10-9
225	13-6	13-6	13-7	13-7	13-7	13-7	13-7	13-8	13-8	13-8
250	16-8	16-9	16-9	16-9	16-9	16-10	16-10	16-10	16-10	16-11
275	20-3	20-3	20-3	20-4	20-4	20-4	20-5	20-5	20-5	20-6
300	24-1	24-2	24-2	24-2	24-3	24-3	24-4	24-4	24-4	24-5
325	28-4	28-4	28-5	28-5	28-6	28-6	28-7	28-7	28-8	28-8
350	32-11	32-11	33-0	33-0	33-1	33-2	33-2	33-3	33-3	33-4
375	37-10	37-11	37-11	38-0	38-1	38-1	38-2	38-2	38-3	38-3
400	43-2	43-2	43-3	43-4	43-4	43-5	43-6	43-6	43-7	43-8
425	48-9	48-10	48-11	49-0	49-1	49-1	49-2	49-3	49-4	49-4
450	54-10	54-11	54-11	55-0	55-1	55-2	55-3	55-4	55-5	55-6
475	61-2	61-3	61-4	61-5	61-6	61-7	61-8	61-9	61-10	61-11
500	68-0	68-1	68-2	68-3	68-4	68-5	68-6	68-7	68-8	68-9

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	10-8	10-8	10-8	10-9	10-9	10-9	10-9	10-9	10-9	10-10
225	13-6	13-7	13-7	13-7	13-7	13-7	13-8	13-8	13-8	13-8
250	16-9	16-9	16-9	16-9	16-10	16-10	16-10	16-10	16-11	16-11
275	20-3	20-3	20-4	20-4	20-4	20-5	20-5	20-5	20-6	20-6
300	24-2	24-2	24-2	24-3	24-3	24-3	24-4	24-4	24-5	24-5
325	28-4	28-5	28-5	28-6	28-6	28-7	28-7	28-7	28-8	28-8
350	32-11	33-0	33-0	33-1	33-1	33-2	33-2	33-3	33-3	33-4
375	37-11	37-11	38-0	38-0	38-1	38-2	38-2	38-3	38-3	38-4
400	43-2	43-3	43-4	43-4	43-5	43-6	43-6	43-7	43-8	43-8
425	48-10	48-11	49-0	49-0	49-1	49-2	49-3	49-4	49-4	49-5
450	54-11	54-11	55-0	55-1	55-2	55-3	55-4	55-5	55-5	55-6
475	61-3	61-4	61-5	61-6	61-7	61-8	61-9	61-10	61-11	62-0
500	68-1	68-2	68-3	68-4	68-5	68-6	68-7	68-8	68-9	68-10

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C						F						
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 70 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH821.70
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS										

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.001	5.02	1000	5.02	1000*
20	0	0	0	0.481	4.22	572	4.19	575
30	0	0	0	0.481	4.34	556	4.31	559
40	0	0	0	0.481	4.46	541	4.43	544
50	0	0	0	0.481	4.57	527	4.55	530
60	0	0	0	0.481	4.69	514	4.67	517
70	0	0	0	0.481	4.8	502	4.78	504
80	0	0	0	0.481	4.91	491	4.9	492
90	0	0	0	0.481	5.02	480	5.01	482
100	0	0	0	0.481	5.13	470	5.12	471
110	0	0	0	0.481	5.24	461	5.23	462
120	0	0	0	0.481	5.34	452	5.33	452
130	0	0	0	0.481	5.44	443	5.42	445
167	0	0	0	0.481	5.78	417	5.76	419
212	0	0	0	0.481	6.17	391	6.14	393

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 72 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH821.72
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS										

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>73 OF 215</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH821.73
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.001	31.8	1000	31.8	1000*
20	0	0	0	0.481	30.98	493	30.95	493
30	0	0	0	0.481	31.1	491	31.07	491
40	0	0	0	0.481	31.22	489	31.19	489
50	0	0	0	0.481	31.34	487	31.31	488
60	0	0	0	0.481	31.46	485	31.43	486
70	0	0	0	0.481	31.57	484	31.55	484
80	0	0	0	0.481	31.69	482	31.67	482
90	0	0	0	0.481	31.81	480	31.79	480
100	0	0	0	0.481	31.92	479	31.91	479
110	0	0	0	0.481	32.04	477	32.03	477
120	0	0	0	0.481	32.15	475	32.14	475
130	0	0	0	0.481	32.27	474	32.25	474
167	0	0	0	0.481	32.67	468	32.64	468
212	0	0	0	0.481	33.13	462	33.1	462
* Design Condition								

* Design Condition

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Indicates Latest Revision

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New Page

Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.74

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-8	0-9	0-10
100	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
125	1-0	1-2	1-3	1-5	1-6	1-8	1-10	1-11	2-1	2-3
150	1-6	1-8	1-10	2-0	2-2	2-5	2-7	2-10	3-0	3-2
175	2-0	2-3	2-6	2-9	3-0	3-3	3-6	3-10	4-1	4-4
200	2-8	2-11	3-3	3-7	3-11	4-3	4-7	5-0	5-4	5-8

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10
100	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
125	1-1	1-2	1-3	1-5	1-7	1-8	1-10	2-0	2-1	2-3
150	1-6	1-8	1-10	2-0	2-3	2-5	2-8	2-10	3-0	3-3
175	2-1	2-3	2-6	2-9	3-0	3-4	3-7	3-10	4-1	4-4
200	2-8	3-0	3-3	3-7	4-0	4-4	4-8	5-0	5-4	5-9

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 75 OF 215		Indicates Latest Revision									OH821.75
		Completely Revised X New Page Information Removed									
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-1	1-1	1-1	1-2	1-2	1-2	1-3	1-3	1-3	1-4
125	1-8	1-8	1-9	1-9	1-10	1-10	1-11	1-11	2-0	2-0
150	2-4	2-5	2-6	2-7	2-7	2-8	2-9	2-10	2-11	2-11
175	3-2	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0
200	4-2	4-4	4-5	4-7	4-8	4-9	4-11	5-0	5-1	5-3
225	5-4	5-5	5-7	5-9	5-11	6-1	6-2	6-4	6-6	6-7
250	6-7	6-9	6-11	7-1	7-4	7-6	7-8	7-10	8-0	8-2

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-1	1-1	1-1	1-2	1-2	1-2	1-3	1-3	1-3	1-4
125	1-8	1-8	1-9	1-9	1-10	1-10	1-11	2-0	2-0	2-1
150	2-4	2-5	2-6	2-7	2-8	2-8	2-9	2-10	2-11	2-11
175	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0
200	4-3	4-4	4-5	4-7	4-8	4-10	4-11	5-0	5-2	5-3
225	5-4	5-6	5-8	5-9	5-11	6-1	6-3	6-4	6-6	6-8
250	6-7	6-9	7-0	7-2	7-4	7-6	7-8	7-10	8-0	8-2

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SHEET 76 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.76
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING 1/O RTS TRIPLEX TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	2-7	2-8	2-8	2-8	2-9	2-9	2-10	2-10	2-10	2-11
175	3-7	3-7	3-8	3-8	3-9	3-9	3-10	3-10	3-11	3-11
200	4-8	4-8	4-9	4-10	4-10	4-11	5-0	5-0	5-1	5-2
225	5-11	6-0	6-0	6-1	6-2	6-3	6-4	6-4	6-5	6-6
250	7-3	7-4	7-5	7-6	7-7	7-8	7-9	7-10	7-11	8-0
275	8-10	8-11	9-0	9-1	9-3	9-4	9-5	9-6	9-7	9-8
300	10-6	10-7	10-9	10-10	11-0	11-1	11-2	11-4	11-5	11-7
325	12-4	12-5	12-7	12-9	12-10	13-0	13-2	13-3	13-5	13-7
350	14-3	14-5	14-7	14-9	14-11	15-1	15-3	15-5	15-7	15-9
375	16-5	16-7	16-9	17-0	17-2	17-4	17-6	17-8	17-11	18-1

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	2-7	2-8	2-8	2-9	2-9	2-9	2-10	2-10	2-10	2-11
175	3-7	3-7	3-8	3-8	3-9	3-9	3-10	3-10	3-11	3-11
200	4-8	4-9	4-9	4-10	4-11	4-11	5-0	5-0	5-1	5-2
225	5-11	6-0	6-1	6-1	6-2	6-3	6-4	6-4	6-5	6-6
250	7-4	7-5	7-6	7-7	7-8	7-8	7-9	7-10	7-11	8-0
275	8-10	8-11	9-0	9-2	9-3	9-4	9-5	9-6	9-7	9-9
300	10-6	10-8	10-9	10-10	11-0	11-1	11-3	11-4	11-5	11-7
325	12-4	12-6	12-7	12-9	12-11	13-0	13-2	13-4	13-5	13-7
350	14-4	14-6	14-8	14-10	15-0	15-1	15-3	15-5	15-7	15-9
375	16-5	16-8	16-10	17-0	17-2	17-4	17-7	17-9	17-11	18-1

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div>SHEET</div> <div>77 OF 215</div>	<div>Indicates Latest Revision</div>	<div>Completely Revised</div>	<div>X</div>	<div>New Page</div>	<div>Information Removed</div>	<div>OH821.77</div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div>STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING</div> <div>1/0 RTS TRIPLEX TENSION 1000 LBS</div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	4-10	4-10	4-11	4-11	4-11	5-0	5-0	5-1	5-1	5-1
225	6-1	6-2	6-2	6-3	6-3	6-4	6-4	6-5	6-5	6-5
250	7-7	7-7	7-8	7-8	7-9	7-9	7-10	7-11	7-11	8-0
275	9-2	9-2	9-3	9-4	9-4	9-5	9-6	9-6	9-7	9-8
300	10-11	10-11	11-0	11-1	11-2	11-3	11-3	11-4	11-5	11-6
325	12-9	12-10	12-11	13-0	13-1	13-2	13-3	13-4	13-5	13-6
350	14-10	14-11	15-0	15-1	15-2	15-3	15-5	15-6	15-7	15-8
375	17-0	17-2	17-3	17-4	17-5	17-7	17-8	17-9	17-10	18-0
400	19-5	19-6	19-7	19-9	19-10	20-0	20-1	20-3	20-4	20-5
425	21-11	22-0	22-2	22-4	22-5	22-7	22-8	22-10	23-0	23-1
450	24-7	24-8	24-10	25-0	25-2	25-4	25-6	25-7	25-9	25-11
475	27-4	27-6	27-9	27-11	28-1	28-3	28-5	28-7	28-9	28-11
500	30-4	30-6	30-9	30-11	31-1	31-3	31-6	31-8	31-10	32-0

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	4-10	4-10	4-11	4-11	5-0	5-0	5-0	5-1	5-1	5-1
225	6-2	6-2	6-2	6-3	6-3	6-4	6-4	6-5	6-5	6-6
250	7-7	7-7	7-8	7-8	7-9	7-10	7-10	7-11	7-11	8-0
275	9-2	9-3	9-3	9-4	9-5	9-5	9-6	9-7	9-7	9-8
300	10-11	11-0	11-0	11-1	11-2	11-3	11-4	11-4	11-5	11-6
325	12-10	12-11	13-0	13-0	13-1	13-2	13-3	13-4	13-5	13-6
350	14-10	14-11	15-0	15-2	15-3	15-4	15-5	15-6	15-7	15-8
375	17-1	17-2	17-3	17-4	17-6	17-7	17-8	17-9	17-11	18-0
400	19-5	19-6	19-8	19-9	19-11	20-0	20-1	20-3	20-4	20-6
425	21-11	22-1	22-2	22-4	22-6	22-7	22-9	22-10	23-0	23-1
450	24-7	24-9	24-11	25-1	25-2	25-4	25-6	25-8	25-9	25-11
475	27-5	27-7	27-9	27-11	28-1	28-3	28-5	28-7	28-9	28-11
500	30-5	30-7	30-9	30-11	31-2	31-4	31-6	31-8	31-10	32-1

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Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.001	13.41	1500	13.41	1500*
20	0	0	0	0.481	11.86	814	11.81	818
30	0	0	0	0.481	12.04	802	11.99	805
40	0	0	0	0.481	12.22	790	12.17	794
50	0	0	0	0.481	12.4	779	12.35	782
60	0	0	0	0.481	12.57	768	12.52	771
70	0	0	0	0.481	12.75	758	12.7	761
80	0	0	0	0.481	12.92	748	12.87	751
90	0	0	0	0.481	13.09	738	13.04	741
100	0	0	0	0.481	13.25	729	13.21	731
110	0	0	0	0.481	13.42	720	13.38	722
120	0	0	0	0.481	13.58	711	13.55	713
130	0	0	0	0.481	13.75	703	13.72	705
167	0	0	0	0.481	14.33	675	14.29	677
212	0	0	0	0.481	14.97	646	14.91	649

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 81 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.81
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.001	21.01	1500	21.01	1500*
20	0	0	0	0.481	19.45	778	19.39	780
30	0	0	0	0.481	19.63	771	19.57	773
40	0	0	0	0.481	19.8	764	19.75	766
50	0	0	0	0.481	19.98	757	19.93	759
60	0	0	0	0.481	20.16	751	20.1	753
70	0	0	0	0.481	20.33	744	20.28	746
80	0	0	0	0.481	20.51	738	20.46	740
90	0	0	0	0.481	20.68	732	20.63	733
100	0	0	0	0.481	20.85	726	20.81	727
110	0	0	0	0.481	21.02	720	20.98	722
120	0	0	0	0.481	21.19	715	21.15	716
130	0	0	0	0.481	21.35	709	21.32	710
167	0	0	0	0.481	21.96	690	21.92	691
212	0	0	0	0.481	22.63	670	22.57	671

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>82 OF 215</p> </div>	Indicates Latest Revision	Completely Revised	<div style="border: 1px solid black; padding: 2px;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH821.82</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING</p> <p>1/0 RTS TRIPLEX TENSION 1500 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6
100	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10
125	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-1	1-2	1-3
150	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-8	1-10
175	1-2	1-3	1-4	1-5	1-7	1-8	1-10	2-1	2-3	2-6
200	1-6	1-7	1-8	1-10	2-0	2-3	2-5	2-8	3-0	3-3

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6
100	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10
125	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-4
150	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-8	1-11
175	1-2	1-3	1-4	1-5	1-7	1-9	1-11	2-1	2-4	2-7
200	1-6	1-7	1-9	1-10	2-1	2-3	2-6	2-9	3-0	3-4

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Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10
125	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4
150	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-8	1-9	1-10
175	1-7	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-5	2-6
200	2-1	2-2	2-4	2-6	2-7	2-9	2-11	3-0	3-2	3-4
225	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-10	4-0	4-2
250	3-3	3-5	3-8	3-10	4-1	4-4	4-6	4-9	5-0	5-2

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-6	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-10
125	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4
150	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11
175	1-7	1-9	1-10	1-11	2-0	2-2	2-3	2-4	2-5	2-7
200	2-1	2-3	2-4	2-6	2-8	2-9	2-11	3-1	3-3	3-4
225	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-11	4-1	4-3
250	3-3	3-6	3-8	3-11	4-2	4-4	4-7	4-10	5-0	5-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>84 OF 215</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.84
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	1-6	1-6	1-7	1-8	1-8	1-9	1-9	1-10	1-10	1-10
175	2-0	2-1	2-2	2-3	2-3	2-4	2-5	2-5	2-6	2-7
200	2-8	2-9	2-10	2-11	3-0	3-1	3-1	3-2	3-3	3-4
225	3-4	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-2	4-3
250	4-2	4-3	4-5	4-6	4-8	4-9	4-10	5-0	5-1	5-2
275	5-0	5-2	5-4	5-6	5-7	5-9	5-11	6-0	6-2	6-4
300	6-0	6-2	6-4	6-6	6-8	6-10	7-0	7-2	7-4	7-6
325	7-0	7-3	7-5	7-8	7-10	8-0	8-3	8-5	8-7	8-10
350	8-2	8-5	8-8	8-10	9-1	9-4	9-7	9-9	10-0	10-3
375	9-4	9-8	9-11	10-2	10-5	10-8	11-0	11-3	11-6	11-9

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	1-6	1-7	1-7	1-8	1-8	1-9	1-9	1-10	1-10	1-11
175	2-1	2-1	2-2	2-3	2-3	2-4	2-5	2-5	2-6	2-7
200	2-8	2-9	2-10	2-11	3-0	3-1	3-2	3-2	3-3	3-4
225	3-5	3-6	3-7	3-8	3-9	3-11	4-0	4-1	4-2	4-3
250	4-2	4-4	4-5	4-7	4-8	4-9	4-11	5-0	5-1	5-3
275	5-1	5-3	5-4	5-6	5-8	5-9	5-11	6-1	6-2	6-4
300	6-0	6-3	6-5	6-7	6-9	6-11	7-1	7-3	7-5	7-6
325	7-1	7-3	7-6	7-8	7-11	8-1	8-3	8-6	8-8	8-10
350	8-3	8-5	8-8	8-11	9-2	9-5	9-7	9-10	10-1	10-3
375	9-5	9-9	10-0	10-3	10-6	10-9	11-0	11-3	11-6	11-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 85 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH821.85
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	2-11	3-0	3-0	3-1	3-2	3-2	3-3	3-3	3-4	3-4
225	3-9	3-9	3-10	3-11	4-0	4-0	4-1	4-1	4-2	4-3
250	4-7	4-8	4-9	4-10	4-11	4-11	5-0	5-1	5-2	5-3
275	5-7	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4
300	6-8	6-9	6-10	6-11	7-0	7-2	7-3	7-4	7-5	7-6
325	7-9	7-11	8-0	8-2	8-3	8-5	8-6	8-7	8-9	8-10
350	9-0	9-2	9-4	9-5	9-7	9-9	9-10	10-0	10-1	10-3
375	10-5	10-6	10-8	10-10	11-0	11-2	11-4	11-6	11-7	11-9
400	11-10	12-0	12-2	12-4	12-6	12-8	12-10	13-1	13-3	13-5
425	13-4	13-6	13-9	13-11	14-2	14-4	14-6	14-9	14-11	15-1
450	14-11	15-2	15-5	15-8	15-10	16-1	16-4	16-6	16-9	16-11
475	16-8	16-11	17-2	17-5	17-8	17-11	18-2	18-5	18-8	18-11
500	18-6	18-9	19-0	19-4	19-7	19-10	20-2	20-5	20-8	20-11

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	3-0	3-0	3-1	3-1	3-2	3-2	3-3	3-3	3-4	3-4
225	3-9	3-10	3-10	3-11	4-0	4-0	4-1	4-2	4-2	4-3
250	4-8	4-8	4-9	4-10	4-11	5-0	5-0	5-1	5-2	5-3
275	5-7	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4
300	6-8	6-9	6-10	7-0	7-1	7-2	7-3	7-4	7-5	7-7
325	7-10	7-11	8-1	8-2	8-4	8-5	8-6	8-8	8-9	8-10
350	9-1	9-3	9-4	9-6	9-7	9-9	9-11	10-0	10-2	10-3
375	10-5	10-7	10-9	10-11	11-1	11-2	11-4	11-6	11-8	11-10
400	11-10	12-1	12-3	12-5	12-7	12-9	12-11	13-1	13-3	13-5
425	13-5	13-7	13-10	14-0	14-2	14-5	14-7	14-9	15-0	15-2
450	15-0	15-3	15-6	15-8	15-11	16-2	16-4	16-7	16-9	17-0
475	16-9	17-0	17-3	17-6	17-9	18-0	18-3	18-6	18-8	18-11
500	18-7	18-10	19-1	19-5	19-8	19-11	20-2	20-6	20-9	21-0

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>86 OF 215</div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH821.86	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.001	15.71	2000	15.71	2000*
20	0	0	0	0.481	13.25	1137	13.16	1145
30	0	0	0	0.481	13.49	1117	13.39	1125
40	0	0	0	0.481	13.72	1099	13.63	1106
50	0	0	0	0.481	13.95	1081	13.86	1088
60	0	0	0	0.481	14.18	1063	14.09	1070
70	0	0	0	0.481	14.41	1047	14.32	1053
80	0	0	0	0.481	14.63	1031	14.54	1037
90	0	0	0	0.481	14.85	1016	14.77	1022
100	0	0	0	0.481	15.07	1001	14.99	1006
110	0	0	0	0.481	15.29	987	15.21	992
120	0	0	0	0.481	15.51	973	15.43	978
130	0	0	0	0.481	15.72	960	15.64	965
167	0	0	0	0.481	16.49	915	16.43	919
212	0	0	0	0.481	17.36	870	17.28	874

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>90 OF 215</p> </div>	Indicates Latest Revision	Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH821.90</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING</p> <p>1/0 RTS TRIPLEX TENSION 2000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
100	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6
125	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-9
150	0-7	0-8	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-2
175	0-10	0-10	0-11	1-0	1-1	1-1	1-2	1-4	1-5	1-6
200	1-1	1-2	1-2	1-3	1-4	1-6	1-7	1-8	1-10	2-0

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4
100	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6
125	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10
150	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-3
175	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-8
200	1-1	1-2	1-3	1-4	1-5	1-6	1-8	1-10	2-0	2-2

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-7
125	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10
150	0-9	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-3
175	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
200	1-3	1-4	1-5	1-6	1-7	1-9	1-10	1-11	2-1	2-2
225	1-7	1-9	1-10	1-11	2-0	2-2	2-4	2-5	2-7	2-9
250	2-0	2-1	2-3	2-4	2-6	2-8	2-10	3-0	3-3	3-5

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-6	0-7
125	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11
150	0-9	0-9	0-10	0-10	0-11	1-0	1-1	1-1	1-2	1-3
175	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-9
200	1-3	1-4	1-5	1-6	1-8	1-9	1-10	2-0	2-1	2-3
225	1-8	1-9	1-10	1-11	2-1	2-3	2-4	2-6	2-8	2-10
250	2-0	2-2	2-3	2-5	2-7	2-9	2-11	3-1	3-4	3-6

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		
SHEET 92 OF 215		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									OH821.92
		STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-3	1-3	1-4
175	1-3	1-3	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-9
200	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4
225	2-0	2-1	2-3	2-4	2-5	2-6	2-7	2-9	2-10	2-11
250	2-6	2-7	2-9	2-10	3-0	3-1	3-3	3-4	3-6	3-7
275	3-0	3-2	3-4	3-6	3-7	3-9	3-11	4-1	4-3	4-5
300	3-7	3-9	3-11	4-1	4-4	4-6	4-8	4-10	5-0	5-3
325	4-3	4-5	4-8	4-10	5-1	5-3	5-6	5-8	5-11	6-2
350	4-11	5-2	5-4	5-7	5-10	6-1	6-4	6-7	6-10	7-1
375	5-8	5-11	6-2	6-5	6-9	7-0	7-3	7-7	7-10	8-2

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	0-11	0-11	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4
175	1-3	1-4	1-4	1-5	1-6	1-7	1-7	1-8	1-9	1-10
200	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4
225	2-1	2-2	2-3	2-4	2-5	2-7	2-8	2-9	2-10	3-0
250	2-6	2-8	2-9	2-11	3-0	3-2	3-3	3-5	3-7	3-8
275	3-1	3-3	3-4	3-6	3-8	3-10	4-0	4-2	4-3	4-5
300	3-8	3-10	4-0	4-2	4-4	4-7	4-9	4-11	5-1	5-3
325	4-3	4-6	4-8	4-11	5-1	5-4	5-7	5-9	6-0	6-2
350	5-0	5-2	5-5	5-8	5-11	6-2	6-5	6-8	6-11	7-2
375	5-8	6-0	6-3	6-6	6-10	7-1	7-5	7-8	8-0	8-3

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SHEET
93 OF 215

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New Page
Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.93

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.001	31.8	1000	31.8	1000*
0	0	0	0	0.481	31.1	491	31.07	491
30	0	0	0	0.481	31.46	485	31.43	486
40	0	0	0	0.481	31.57	484	31.55	484
50	0	0	0	0.481	31.69	482	31.67	482
60	0	0	0	0.481	31.81	480	31.78	481
70	0	0	0	0.481	31.92	479	31.9	479
80	0	0	0	0.481	32.04	477	32.02	477
90	0	0	0	0.481	32.15	475	32.14	475
100	0	0	0	0.481	32.27	474	32.26	474
110	0	0	0	0.481	32.38	472	32.37	472
120	0	0	0	0.481	32.5	470	32.49	470
130	0	0	0	0.481	32.61	469	32.6	469
167	0	0	0	0.481	33	463	32.98	464
212	0	0	0	0.481	33.46	457	33.44	458
* Design Condition								

* Design Condition

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>98 OF 215</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH821.98</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING</p> <p>1/0 RTS TRIPLEX TENSION 1000 LBS</p> </div>					

OH821.98

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-10	0-11	0-11
100	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
125	1-5	1-6	1-8	1-10	1-11	2-1	2-2	2-4	2-6	2-7
150	2-0	2-2	2-5	2-7	2-9	3-0	3-2	3-4	3-7	3-9
175	2-9	3-0	3-3	3-6	3-10	4-1	4-4	4-7	4-10	5-1
200	3-7	3-11	4-3	4-7	4-11	5-4	5-8	6-0	6-4	6-8

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-10	0-11	0-11
100	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
125	1-5	1-7	1-8	1-10	2-0	2-1	2-3	2-4	2-6	2-7
150	2-0	2-3	2-5	2-8	2-10	3-0	3-3	3-5	3-7	3-9
175	2-9	3-0	3-4	3-7	3-10	4-1	4-4	4-8	4-10	5-1
200	3-7	4-0	4-4	4-8	5-0	5-4	5-9	6-1	6-4	6-8

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>99 OF 215</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.99
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-2	1-2	1-2	1-3	1-3	1-3	1-4	1-4	1-4	1-5
125	1-9	1-10	1-10	1-11	1-11	2-0	2-0	2-1	2-1	2-2
150	2-7	2-7	2-8	2-9	2-10	2-10	2-11	3-0	3-1	3-1
175	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3
200	4-7	4-8	4-9	4-11	5-0	5-1	5-3	5-4	5-5	5-6
225	5-9	5-11	6-1	6-2	6-4	6-6	6-7	6-9	6-11	7-0
250	7-1	7-3	7-6	7-8	7-10	8-0	8-2	8-4	8-6	8-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-2	1-2	1-2	1-3	1-3	1-3	1-4	1-4	1-4	1-5
125	1-9	1-10	1-10	1-11	2-0	2-0	2-1	2-1	2-2	2-2
150	2-7	2-8	2-8	2-9	2-10	2-11	2-11	3-0	3-1	3-1
175	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3
200	4-7	4-8	4-10	4-11	5-0	5-2	5-3	5-4	5-5	5-7
225	5-9	5-11	6-1	6-3	6-4	6-6	6-8	6-9	6-11	7-0
250	7-2	7-4	7-6	7-8	7-10	8-0	8-2	8-4	8-6	8-8

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Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	2-8	2-9	2-9	2-10	2-10	2-10	2-11	2-11	2-11	3-0
175	3-8	3-9	3-9	3-10	3-10	3-11	3-11	4-0	4-0	4-0
200	4-10	4-10	4-11	5-0	5-0	5-1	5-1	5-2	5-3	5-3
225	6-1	6-2	6-3	6-4	6-4	6-5	6-6	6-7	6-7	6-8
250	7-6	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3
275	9-1	9-2	9-4	9-5	9-6	9-7	9-8	9-9	9-11	10-0
300	10-10	11-0	11-1	11-2	11-4	11-5	11-7	11-8	11-9	11-11
325	12-9	12-10	13-0	13-2	13-3	13-5	13-7	13-8	13-10	13-11
350	14-9	14-11	15-1	15-3	15-5	15-7	15-9	15-11	16-0	16-2
375	16-11	17-2	17-4	17-6	17-8	17-10	18-1	18-3	18-5	18-7

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	2-9	2-9	2-9	2-10	2-10	2-10	2-11	2-11	2-11	3-0
175	3-8	3-9	3-9	3-10	3-10	3-11	3-11	4-0	4-0	4-0
200	4-10	4-11	4-11	5-0	5-0	5-1	5-2	5-2	5-3	5-3
225	6-1	6-2	6-3	6-4	6-4	6-5	6-6	6-7	6-7	6-8
250	7-7	7-8	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3
275	9-2	9-3	9-4	9-5	9-6	9-7	9-9	9-10	9-11	10-0
300	10-10	11-0	11-1	11-3	11-4	11-5	11-7	11-8	11-9	11-11
325	12-9	12-11	13-0	13-2	13-4	13-5	13-7	13-8	13-10	14-0
350	14-10	15-0	15-1	15-3	15-5	15-7	15-9	15-11	16-1	16-2
375	17-0	17-2	17-4	17-7	17-9	17-11	18-1	18-3	18-5	18-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>101 OF 215</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH821.101	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS									

Span = 100 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.001	0.83	1500	0.83	1500*
0	0	0	0	0.481	0.4	1519	0.4	1519
30	0	0	0	0.481	0.51	1176	0.5	1193
40	0	0	0	0.481	0.56	1070	0.55	1090
50	0	0	0	0.481	0.62	970	0.61	992
60	0	0	0	0.481	0.69	877	0.67	899
70	0	0	0	0.481	0.76	793	0.74	815
80	0	0	0	0.481	0.84	718	0.81	738
90	0	0	0	0.481	0.92	652	0.9	671
100	0	0	0	0.481	1.01	596	0.98	612
110	0	0	0	0.481	1.1	548	1.07	561
120	0	0	0	0.481	1.19	507	1.16	518
130	0	0	0	0.481	1.27	472	1.24	484
167	0	0	0	0.481	1.56	386	1.52	397
212	0	0	0	0.481	1.87	322	1.83	330

* Design Condition

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.001	3.34	1500	3.34	1500*
0	0	0	0	0.481	2.23	1078	2.21	1091
30	0	0	0	0.481	2.65	909	2.61	922
40	0	0	0	0.481	2.79	863	2.75	876
50	0	0	0	0.481	2.93	822	2.89	833
60	0	0	0	0.481	3.07	784	3.03	795
70	0	0	0	0.481	3.21	750	3.17	760
80	0	0	0	0.481	3.35	719	3.31	728
90	0	0	0	0.481	3.48	691	3.44	699
100	0	0	0	0.481	3.62	666	3.58	673
110	0	0	0	0.481	3.75	642	3.71	648
120	0	0	0	0.481	3.88	621	3.85	626
130	0	0	0	0.481	4.01	601	3.98	606
167	0	0	0	0.481	4.44	542	4.39	548
212	0	0	0	0.481	4.91	491	4.86	496
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>104 OF 215</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.104
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.001	21.01	1500	21.01	1500*
0	0	0	0	0.481	19.63	771	19.56	773
30	0	0	0	0.481	20.16	751	20.1	753
40	0	0	0	0.481	20.33	744	20.27	746
50	0	0	0	0.481	20.51	738	20.45	740
60	0	0	0	0.481	20.68	732	20.62	734
70	0	0	0	0.481	20.85	726	20.8	728
80	0	0	0	0.481	21.02	720	20.97	722
90	0	0	0	0.481	21.19	715	21.14	716
100	0	0	0	0.481	21.35	709	21.31	710
110	0	0	0	0.481	21.52	704	21.48	705
120	0	0	0	0.481	21.69	698	21.65	700
130	0	0	0	0.481	21.85	693	21.82	694
167	0	0	0	0.481	22.45	675	22.4	677
212	0	0	0	0.481	23.09	656	23.04	658

* Design Condition

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 106 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.106
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-3	0-3	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-7
100	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1
125	0-9	0-9	0-10	0-11	1-1	1-2	1-3	1-5	1-6	1-8
150	1-0	1-2	1-3	1-4	1-6	1-8	1-10	2-0	2-3	2-5
175	1-5	1-7	1-8	1-10	2-1	2-3	2-6	2-9	3-0	3-3
200	1-10	2-0	2-2	2-5	2-8	2-11	3-3	3-7	3-11	4-3

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7
100	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1
125	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-7	1-9
150	1-1	1-2	1-3	1-5	1-7	1-8	1-11	2-1	2-3	2-6
175	1-5	1-7	1-9	1-11	2-1	2-4	2-7	2-10	3-1	3-4
200	1-10	2-1	2-3	2-6	2-9	3-0	3-4	3-8	4-0	4-5

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 107 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH821.107
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-10	0-11	0-11
125	1-0	1-0	1-1	1-2	1-2	1-3	1-3	1-4	1-5	1-5
150	1-5	1-6	1-7	1-7	1-8	1-9	1-10	1-11	2-0	2-1
175	1-11	2-0	2-1	2-3	2-4	2-5	2-6	2-8	2-9	2-10
200	2-6	2-7	2-9	2-11	3-0	3-2	3-4	3-5	3-7	3-9
225	3-2	3-4	3-6	3-8	3-10	4-0	4-2	4-4	4-6	4-8
250	3-10	4-1	4-4	4-6	4-9	4-11	5-2	5-5	5-7	5-10

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
100	0-8	0-8	0-8	0-9	0-9	0-10	0-10	0-10	0-11	0-11
125	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-6
150	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-0	2-1
175	1-11	2-0	2-2	2-3	2-4	2-5	2-7	2-8	2-9	2-10
200	2-6	2-8	2-9	2-11	3-1	3-3	3-4	3-6	3-7	3-9
225	3-2	3-4	3-6	3-8	3-11	4-1	4-3	4-5	4-7	4-9
250	3-11	4-2	4-4	4-7	4-10	5-0	5-3	5-5	5-8	5-10

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C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D							
SHEET 108 OF 215		Indicates Latest Revision			Completely Revised			X	New Page		Information Removed		OH821.108
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS											

Stringing Sag Table Using Initial Sag							Ruling Span:	300.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	1-7	1-8	1-9	1-9	1-9	1-10	1-10	1-11	1-11	2-0
175	2-3	2-3	2-4	2-5	2-5	2-6	2-7	2-7	2-8	2-8
200	2-11	3-0	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-6
225	3-8	3-9	3-10	3-11	4-0	4-1	4-3	4-4	4-5	4-6
250	4-6	4-8	4-9	4-10	5-0	5-1	5-2	5-4	5-5	5-6
275	5-6	5-7	5-9	5-11	6-0	6-2	6-4	6-5	6-7	6-8
300	6-6	6-8	6-10	7-0	7-2	7-4	7-6	7-8	7-10	8-0
325	7-8	7-10	8-0	8-3	8-5	8-7	8-9	9-0	9-2	9-4
350	8-10	9-1	9-4	9-6	9-9	10-0	10-2	10-5	10-8	10-10
375	10-2	10-5	10-8	10-11	11-2	11-5	11-9	11-11	12-2	12-5

Stringing Sag Table Using Final Sag							Ruling Span:	300.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	1-8	1-8	1-9	1-9	1-10	1-10	1-11	1-11	2-0	2-0
175	2-3	2-3	2-4	2-5	2-5	2-6	2-7	2-7	2-8	2-9
200	2-11	3-0	3-1	3-2	3-2	3-3	3-4	3-5	3-6	3-7
225	3-8	3-9	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6
250	4-7	4-8	4-9	4-11	5-0	5-1	5-3	5-4	5-5	5-7
275	5-6	5-8	5-9	5-11	6-1	6-2	6-4	6-6	6-7	6-9
300	6-7	6-9	6-11	7-1	7-3	7-5	7-6	7-8	7-10	8-0
325	7-8	7-11	8-1	8-3	8-6	8-8	8-10	9-0	9-3	9-5
350	8-11	9-2	9-5	9-7	9-10	10-1	10-3	10-6	10-8	10-11
375	10-3	10-6	10-9	11-0	11-3	11-6	11-9	12-0	12-3	12-6

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>109 OF 215</h2> </div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH821.109	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span: 400.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	3-1	3-2	3-2	3-3	3-3	3-4	3-4	3-5	3-5	3-6
225	3-11	3-11	4-0	4-1	4-1	4-2	4-3	4-3	4-4	4-5
250	4-10	4-11	4-11	5-0	5-1	5-2	5-3	5-3	5-4	5-5
275	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7
300	6-11	7-0	7-2	7-3	7-4	7-5	7-6	7-7	7-8	7-10
325	8-2	8-3	8-4	8-6	8-7	8-9	8-10	8-11	9-0	9-2
350	9-5	9-7	9-9	9-10	10-0	10-1	10-3	10-4	10-6	10-7
375	10-10	11-0	11-2	11-4	11-5	11-7	11-9	11-11	12-1	12-2
400	12-4	12-6	12-8	12-10	13-0	13-2	13-4	13-6	13-8	13-10
425	13-11	14-2	14-4	14-6	14-9	14-11	15-1	15-3	15-6	15-8
450	15-7	15-10	16-1	16-3	16-6	16-9	16-11	17-2	17-4	17-7
475	17-5	17-8	17-11	18-2	18-5	18-8	18-10	19-1	19-4	19-7
500	19-4	19-7	19-10	20-1	20-5	20-8	20-11	21-2	21-5	21-8

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	3-1	3-2	3-2	3-3	3-3	3-4	3-4	3-5	3-5	3-6
225	3-11	4-0	4-0	4-1	4-2	4-2	4-3	4-4	4-4	4-5
250	4-10	4-11	5-0	5-0	5-1	5-2	5-3	5-4	5-4	5-5
275	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7
300	7-0	7-1	7-2	7-3	7-4	7-5	7-7	7-8	7-9	7-10
325	8-2	8-4	8-5	8-6	8-8	8-9	8-10	9-0	9-1	9-2
350	9-6	9-7	9-9	9-11	10-0	10-2	10-3	10-5	10-6	10-8
375	10-11	11-1	11-2	11-4	11-6	11-8	11-10	11-11	12-1	12-3
400	12-5	12-7	12-9	12-11	13-1	13-3	13-5	13-7	13-9	13-11
425	14-0	14-2	14-5	14-7	14-9	15-0	15-2	15-4	15-6	15-8
450	15-8	15-11	16-2	16-4	16-7	16-9	17-0	17-2	17-5	17-7
475	17-6	17-9	18-0	18-3	18-6	18-8	18-11	19-2	19-5	19-7
500	19-5	19-8	19-11	20-2	20-6	20-9	21-0	21-3	21-6	21-9

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C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 110 OF 215	Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH821.110
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
	STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS											

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.001	2.51	2000	2.51	2000*
0	0	0	0	0.481	1.36	1771	1.35	1782
30	0	0	0	0.481	1.64	1471	1.61	1497
40	0	0	0	0.481	1.74	1380	1.71	1408
50	0	0	0	0.481	1.86	1295	1.82	1325
60	0	0	0	0.481	1.98	1216	1.93	1245
70	0	0	0	0.481	2.11	1143	2.05	1172
80	0	0	0	0.481	2.24	1075	2.18	1103
90	0	0	0	0.481	2.37	1014	2.31	1040
100	0	0	0	0.481	2.51	958	2.45	982
110	0	0	0	0.481	2.65	907	2.59	929
120	0	0	0	0.481	2.79	862	2.73	881
130	0	0	0	0.481	2.93	820	2.87	837
167	0	0	0	0.481	3.44	699	3.38	713
212	0	0	0	0.481	3.97	607	3.9	618
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>112 OF 215</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH821.112
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS									

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.001	5.64	2000	5.64	2000*
0	0	0	0	0.481	3.82	1416	3.77	1435
30	0	0	0	0.481	4.36	1241	4.29	1261
40	0	0	0	0.481	4.55	1191	4.47	1211
50	0	0	0	0.481	4.73	1145	4.65	1164
60	0	0	0	0.481	4.92	1102	4.84	1120
70	0	0	0	0.481	5.1	1062	5.02	1079
80	0	0	0	0.481	5.29	1025	5.2	1041
90	0	0	0	0.481	5.47	991	5.39	1006
100	0	0	0	0.481	5.65	959	5.57	973
110	0	0	0	0.481	5.83	930	5.75	942
120	0	0	0	0.481	6.01	902	5.93	914
130	0	0	0	0.481	6.18	877	6.11	887
167	0	0	0	0.481	6.81	796	6.75	803
212	0	0	0	0.481	7.48	725	7.4	733

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.001	10.04	2000	10.04	2000*
0	0	0	0	0.481	7.93	1215	7.84	1228
30	0	0	0	0.481	8.59	1122	8.49	1135
40	0	0	0	0.481	8.8	1095	8.71	1107
50	0	0	0	0.481	9.02	1069	8.92	1081
60	0	0	0	0.481	9.23	1045	9.13	1056
70	0	0	0	0.481	9.44	1022	9.34	1032
80	0	0	0	0.481	9.64	1000	9.55	1010
90	0	0	0	0.481	9.85	979	9.76	988
100	0	0	0	0.481	10.05	960	9.96	968
110	0	0	0	0.481	10.25	941	10.16	949
120	0	0	0	0.481	10.45	923	10.36	931
130	0	0	0	0.481	10.64	906	10.56	913
167	0	0	0	0.481	11.35	850	11.28	855
212	0	0	0	0.481	12.11	797	12.03	802

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D							
SHEET 113 OF 215		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH821.113
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS											

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.001	15.71	2000	15.71	2000*
0	0	0	0	0.481	13.49	1117	13.38	1126
30	0	0	0	0.481	14.18	1063	14.07	1071
40	0	0	0	0.481	14.41	1047	14.3	1054
50	0	0	0	0.481	14.63	1031	14.53	1038
60	0	0	0	0.481	14.85	1016	14.75	1023
70	0	0	0	0.481	15.07	1001	14.97	1008
80	0	0	0	0.481	15.29	987	15.19	993
90	0	0	0	0.481	15.51	973	15.41	979
100	0	0	0	0.481	15.72	960	15.63	966
110	0	0	0	0.481	15.93	947	15.84	953
120	0	0	0	0.481	16.14	935	16.05	940
130	0	0	0	0.481	16.35	923	16.27	928
167	0	0	0	0.481	17.1	883	17.03	887
212	0	0	0	0.481	17.93	843	17.85	846

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>114 OF 215</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH821.114</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING</p> <p>1/0 RTS TRIPLEX TENSION 2000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4
100	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8
125	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-0
150	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-3	1-4	1-6
175	1-0	1-1	1-1	1-2	1-4	1-5	1-6	1-8	1-10	2-0
200	1-3	1-4	1-5	1-7	1-8	1-10	2-0	2-2	2-5	2-8

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-5
100	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-8
125	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1
150	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7
175	1-0	1-1	1-2	1-3	1-4	1-5	1-7	1-9	1-11	2-2
200	1-3	1-5	1-6	1-7	1-9	1-11	2-1	2-3	2-6	2-9

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Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-5	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-7	0-8
125	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0
150	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-5
175	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-0
200	1-6	1-7	1-8	1-10	1-11	2-1	2-2	2-4	2-5	2-7
225	1-11	2-0	2-2	2-4	2-5	2-7	2-9	2-11	3-1	3-3
250	2-4	2-6	2-8	2-10	3-0	3-3	3-5	3-7	3-10	4-1

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8
125	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-0
150	0-10	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6
175	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-10	1-11	2-0
200	1-6	1-8	1-9	1-10	2-0	2-1	2-3	2-4	2-6	2-8
225	1-11	2-1	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4
250	2-5	2-7	2-9	2-11	3-1	3-3	3-6	3-9	3-11	4-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 116 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH821.116
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-4	1-5	1-5
175	1-5	1-6	1-6	1-7	1-8	1-8	1-9	1-10	1-11	1-11
200	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7
225	2-4	2-5	2-6	2-7	2-9	2-10	2-11	3-0	3-2	3-3
250	2-10	3-0	3-1	3-3	3-4	3-6	3-7	3-9	3-10	4-0
275	3-6	3-7	3-9	3-11	4-1	4-3	4-4	4-6	4-8	4-10
300	4-1	4-4	4-6	4-8	4-10	5-0	5-2	5-5	5-7	5-9
325	4-10	5-0	5-3	5-6	5-8	5-11	6-1	6-4	6-6	6-9
350	5-7	5-10	6-1	6-4	6-7	6-10	7-1	7-4	7-7	7-10
375	6-5	6-9	7-0	7-3	7-7	7-10	8-2	8-5	8-8	9-0

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-5	1-5
175	1-5	1-6	1-7	1-7	1-8	1-9	1-10	1-10	1-11	2-0
200	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7
225	2-4	2-5	2-7	2-8	2-9	2-10	3-0	3-1	3-2	3-3
250	2-11	3-0	3-2	3-3	3-5	3-7	3-8	3-10	3-11	4-1
275	3-6	3-8	3-10	4-0	4-2	4-3	4-5	4-7	4-9	4-11
300	4-2	4-4	4-7	4-9	4-11	5-1	5-3	5-6	5-8	5-10
325	4-11	5-1	5-4	5-7	5-9	6-0	6-2	6-5	6-8	6-10
350	5-8	5-11	6-2	6-5	6-8	6-11	7-2	7-5	7-8	7-11
375	6-6	6-10	7-1	7-5	7-8	8-0	8-3	8-7	8-10	9-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>117 OF 215</div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH821.117	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span:		400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	2-1	2-1	2-2	2-3	2-3	2-4	2-5	2-5	2-6	2-6
225	2-7	2-8	2-9	2-10	2-11	2-11	3-0	3-1	3-2	3-3
250	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0
275	3-11	4-0	4-1	4-3	4-4	4-5	4-6	4-7	4-8	4-10
300	4-8	4-9	4-11	5-0	5-2	5-3	5-4	5-6	5-7	5-9
325	5-6	5-7	5-9	5-11	6-0	6-2	6-4	6-5	6-7	6-8
350	6-4	6-6	6-8	6-10	7-0	7-2	7-4	7-6	7-7	7-9
375	7-3	7-6	7-8	7-10	8-0	8-3	8-5	8-7	8-9	8-11
400	8-3	8-6	8-8	8-11	9-2	9-4	9-7	9-9	10-0	10-2
425	9-4	9-7	9-10	10-1	10-4	10-7	10-9	11-0	11-3	11-6
450	10-6	10-9	11-0	11-3	11-7	11-10	12-1	12-4	12-7	12-10
475	11-8	12-0	12-3	12-7	12-11	13-2	13-6	13-9	14-1	14-4
500	12-11	13-3	13-7	13-11	14-3	14-7	14-11	15-3	15-7	15-11

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	2-1	2-2	2-2	2-3	2-4	2-4	2-5	2-6	2-6	2-7
225	2-8	2-9	2-9	2-10	2-11	3-0	3-1	3-1	3-2	3-3
250	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0
275	3-11	4-1	4-2	4-3	4-4	4-6	4-7	4-8	4-9	4-10
300	4-8	4-10	4-11	5-1	5-2	5-4	5-5	5-6	5-8	5-9
325	5-6	5-8	5-10	5-11	6-1	6-3	6-4	6-6	6-8	6-9
350	6-5	6-7	6-9	6-11	7-1	7-3	7-5	7-6	7-8	7-10
375	7-4	7-7	7-9	7-11	8-1	8-4	8-6	8-8	8-10	9-0
400	8-4	8-7	8-10	9-0	9-3	9-5	9-8	9-10	10-1	10-3
425	9-5	9-8	9-11	10-2	10-5	10-8	10-11	11-1	11-4	11-7
450	10-7	10-10	11-2	11-5	11-8	11-11	12-2	12-6	12-9	13-0
475	11-10	12-1	12-5	12-9	13-0	13-4	13-7	13-11	14-2	14-6
500	13-1	13-5	13-9	14-1	14-5	14-9	15-1	15-5	15-9	16-0

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 118 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.118
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS									

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.58	18.03	1000	18.03	1000*
20	0	0	0	0.481	17.4	315	17.37	316
30	0	0	0	0.481	17.48	314	17.45	314
40	0	0	0	0.481	17.55	312	17.53	313
50	0	0	0	0.481	17.63	311	17.61	312
60	0	0	0	0.481	17.71	310	17.68	310
70	0	0	0	0.481	17.78	309	17.76	309
80	0	0	0	0.481	17.86	307	17.84	308
90	0	0	0	0.481	17.93	306	17.91	306
100	0	0	0	0.481	18	305	17.99	305
110	0	0	0	0.481	18.08	304	18.06	304
120	0	0	0	0.481	18.15	302	18.12	303
130	0	0	0	0.481	18.22	301	18.19	302
167	0	0	0	0.481	18.47	297	18.44	298
212	0	0	0	0.481	18.76	293	18.73	293

Span = 400 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	18.5	0	1.58	32.43	1000	32.43	1000*
20	0	0	0	0.481	31.8	310	31.77	310
30	0	0	0	0.481	31.88	309	31.85	310
40	0	0	0	0.481	31.95	309	31.93	309
50	0	0	0	0.481	32.03	308	32	308
60	0	0	0	0.481	32.1	307	32.08	308
70	0	0	0	0.481	32.18	307	32.16	307
80	0	0	0	0.481	32.25	306	32.23	306
90	0	0	0	0.481	32.33	305	32.31	306
100	0	0	0	0.481	32.4	305	32.39	305
110	0	0	0	0.481	32.48	304	32.45	304
120	0	0	0	0.481	32.55	303	32.52	304
130	0	0	0	0.481	32.62	303	32.59	303
167	0	0	0	0.481	32.87	301	32.84	301
212	0	0	0	0.481	33.17	298	33.14	298

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 121 OF 215	Indicates Latest Revision	Completely Revised	X New Page	Information Removed	OH821.121
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING 1/O RTS TRIPLEX TENSION 1000 LBS				

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.58	51.46	1000	51.46	1000*
20	0	0	0	0.481	50.84	308	50.81	308
30	0	0	0	0.481	50.92	307	50.89	308
40	0	0	0	0.481	50.99	307	50.97	307
50	0	0	0	0.481	51.07	307	51.04	307
60	0	0	0	0.481	51.14	306	51.12	306
70	0	0	0	0.481	51.22	306	51.2	306
80	0	0	0	0.481	51.29	305	51.27	306
90	0	0	0	0.481	51.37	305	51.35	305
100	0	0	0	0.481	51.44	305	51.43	305
110	0	0	0	0.481	51.51	304	51.49	304
120	0	0	0	0.481	51.59	304	51.56	304
130	0	0	0	0.481	51.66	303	51.63	304
167	0	0	0	0.481	51.91	302	51.88	302
212	0	0	0	0.481	52.21	301	52.18	301

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>122 OF 215</p> </div>	Indicates Latest Revision		Completely Revised	<div style="border: 1px solid black; padding: 2px;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH821.122</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>1/0 RTS TRIPLEX TENSION 1000 LBS</p> </div>						

<div style="text-align: center;"> <p>SHEET</p> <p>122 OF 215</p> </div>	Indicates Latest Revision		Completely Revised	<div style="border: 1px solid black; padding: 2px;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH821.122</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>1/0 RTS TRIPLEX TENSION 1000 LBS</p> </div>						

<div style="text-align: center;"> <p>SHEET</p> <p>122 OF 215</p> </div>	Indicates Latest Revision		Completely Revised	<div style="border: 1px solid black; padding: 2px;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH821.122</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>1/0 RTS TRIPLEX TENSION 1000 LBS</p> </div>						

<div style="text-align: center;"> <p>SHEET</p> <p>122 OF 215</p> </div>	Indicates Latest Revision	Completely Revised	<div style="border: 1px solid black; padding: 2px;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH821.122</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>1/0 RTS TRIPLEX TENSION 1000 LBS</p> </div>					

<div style="text-align: center;"> <p>SHEET</p> <p>122 OF 215</p> </div>	Indicates Latest Revision		Completely Revised	<div style="border: 1px solid black; padding: 2px;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH821.122</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>1/0 RTS TRIPLEX TENSION 1000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag							Ruling Span:	100.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2
100	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-10	1-11	2-0
125	2-1	2-2	2-4	2-5	2-7	2-8	2-10	2-11	3-0	3-2
150	2-11	3-2	3-4	3-6	3-8	3-10	4-1	4-3	4-4	4-6
175	4-0	4-3	4-6	4-9	5-0	5-3	5-6	5-9	5-11	6-2
200	5-3	5-7	5-11	6-3	6-7	6-11	7-2	7-6	7-9	8-0

Stringing Sag Table Using Final Sag							Ruling Span:	100.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2
100	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-11	2-0
125	2-1	2-3	2-4	2-6	2-7	2-9	2-10	2-11	3-1	3-2
150	3-0	3-2	3-5	3-7	3-9	3-11	4-1	4-3	4-5	4-7
175	4-1	4-4	4-7	4-10	5-1	5-4	5-7	5-9	6-0	6-2
200	5-4	5-8	6-0	6-4	6-8	7-0	7-3	7-7	7-10	8-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>123 OF 215</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH821.123
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-10	1-10	1-10	1-11	1-11	1-11	1-11	1-11	2-0	2-0
125	2-10	2-10	2-11	2-11	3-0	3-0	3-0	3-1	3-1	3-1
150	4-1	4-2	4-2	4-3	4-3	4-4	4-4	4-5	4-5	4-6
175	5-7	5-8	5-8	5-9	5-10	5-11	5-11	6-0	6-1	6-1
200	7-3	7-4	7-5	7-6	7-7	7-8	7-9	7-10	7-11	8-0
225	9-3	9-4	9-5	9-6	9-8	9-9	9-10	9-11	10-0	10-1
250	11-5	11-6	11-8	11-9	11-11	12-0	12-2	12-3	12-4	12-6

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-10	1-10	1-10	1-11	1-11	1-11	1-11	2-0	2-0	2-0
125	2-10	2-11	2-11	2-11	3-0	3-0	3-0	3-1	3-1	3-1
150	4-1	4-2	4-2	4-3	4-3	4-4	4-4	4-5	4-5	4-6
175	5-7	5-8	5-9	5-9	5-10	5-11	5-11	6-0	6-1	6-1
200	7-4	7-5	7-6	7-7	7-8	7-8	7-9	7-10	7-11	8-0
225	9-3	9-4	9-6	9-7	9-8	9-9	9-10	9-11	10-0	10-2
250	11-5	11-7	11-8	11-10	11-11	12-1	12-2	12-3	12-5	12-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>124 OF 215</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.124
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	4-4	4-4	4-4	4-5	4-5	4-5	4-5	4-6	4-6	4-6
175	5-11	5-11	5-11	6-0	6-0	6-0	6-1	6-1	6-1	6-2
200	7-8	7-9	7-9	7-10	7-10	7-10	7-11	7-11	8-0	8-0
225	9-9	9-10	9-10	9-11	9-11	10-0	10-0	10-1	10-1	10-2
250	12-1	12-1	12-2	12-3	12-3	12-4	12-4	12-5	12-6	12-6
275	14-7	14-8	14-9	14-9	14-10	14-11	15-0	15-0	15-1	15-2
300	17-4	17-5	17-6	17-7	17-8	17-9	17-10	17-11	18-0	18-1
325	20-5	20-6	20-7	20-8	20-9	20-10	20-11	21-0	21-2	21-3
350	23-8	23-10	23-11	24-0	24-1	24-3	24-4	24-5	24-6	24-7
375	27-3	27-4	27-6	27-7	27-8	27-10	27-11	28-1	28-2	28-3

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	4-4	4-4	4-4	4-5	4-5	4-5	4-5	4-6	4-6	4-6
175	5-11	5-11	5-11	6-0	6-0	6-0	6-1	6-1	6-1	6-2
200	7-9	7-9	7-9	7-10	7-10	7-11	7-11	7-11	8-0	8-0
225	9-9	9-10	9-10	9-11	9-11	10-0	10-0	10-1	10-1	10-2
250	12-1	12-1	12-2	12-3	12-3	12-4	12-5	12-5	12-6	12-6
275	14-7	14-8	14-9	14-10	14-10	14-11	15-0	15-1	15-1	15-2
300	17-5	17-6	17-7	17-8	17-8	17-9	17-10	17-11	18-0	18-1
325	20-5	20-6	20-7	20-8	20-10	20-11	21-0	21-1	21-2	21-3
350	23-9	23-10	23-11	24-0	24-2	24-3	24-4	24-5	24-7	24-8
375	27-3	27-5	27-6	27-7	27-9	27-10	28-0	28-1	28-2	28-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 125 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.125
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	7-11	7-11	7-11	7-11	8-0	8-0	8-0	8-0	8-1	8-1
225	10-0	10-0	10-1	10-1	10-1	10-1	10-2	10-2	10-2	10-3
250	12-4	12-5	12-5	12-5	12-6	12-6	12-6	12-7	12-7	12-7
275	14-11	15-0	15-0	15-1	15-1	15-2	15-2	15-2	15-3	15-3
300	17-10	17-10	17-11	17-11	18-0	18-0	18-1	18-1	18-2	18-2
325	20-11	21-0	21-0	21-1	21-1	21-2	21-3	21-3	21-4	21-4
350	24-3	24-4	24-5	24-5	24-6	24-7	24-8	24-8	24-9	24-10
375	27-11	28-0	28-0	28-1	28-2	28-3	28-4	28-4	28-5	28-6
400	31-9	31-10	31-11	32-0	32-1	32-2	32-3	32-4	32-5	32-5
425	35-11	36-0	36-1	36-2	36-3	36-4	36-5	36-6	36-7	36-8
450	40-4	40-5	40-6	40-7	40-8	40-10	40-11	41-0	41-1	41-2
475	44-11	45-1	45-2	45-3	45-5	45-6	45-7	45-9	45-10	45-11
500	49-11	50-0	50-1	50-3	50-4	50-6	50-7	50-9	50-10	50-11

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	7-11	7-11	7-11	7-11	8-0	8-0	8-0	8-0	8-1	8-1
225	10-0	10-0	10-1	10-1	10-1	10-1	10-2	10-2	10-2	10-3
250	12-4	12-5	12-5	12-5	12-6	12-6	12-6	12-7	12-7	12-7
275	15-0	15-0	15-0	15-1	15-1	15-2	15-2	15-3	15-3	15-3
300	17-10	17-10	17-11	17-11	18-0	18-0	18-1	18-1	18-2	18-2
325	20-11	21-0	21-0	21-1	21-2	21-2	21-3	21-3	21-4	21-5
350	24-4	24-4	24-5	24-6	24-6	24-7	24-8	24-8	24-9	24-10
375	27-11	28-0	28-1	28-1	28-2	28-3	28-4	28-5	28-5	28-6
400	31-10	31-11	31-11	32-0	32-1	32-2	32-3	32-4	32-5	32-6
425	35-11	36-0	36-1	36-2	36-3	36-4	36-5	36-6	36-7	36-8
450	40-4	40-5	40-6	40-8	40-9	40-10	40-11	41-0	41-1	41-2
475	45-0	45-1	45-3	45-4	45-5	45-6	45-8	45-9	45-10	46-0
500	49-11	50-1	50-2	50-3	50-5	50-6	50-8	50-9	50-10	51-0

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>126 OF 215</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH821.126	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.58	33.5	1500	33.5	1500*
20	0	0	0	0.481	32.26	474	32.21	474
30	0	0	0	0.481	32.38	472	32.32	473
40	0	0	0	0.481	32.49	470	32.44	471
50	0	0	0	0.481	32.61	469	32.56	470
60	0	0	0	0.481	32.72	467	32.67	468
70	0	0	0	0.481	32.83	466	32.79	466
80	0	0	0	0.481	32.95	464	32.9	465
90	0	0	0	0.481	33.06	463	33.02	463
100	0	0	0	0.481	33.17	461	33.13	462
110	0	0	0	0.481	33.28	460	33.25	460
120	0	0	0	0.481	33.39	458	33.36	459
130	0	0	0	0.481	33.5	457	33.46	457
167	0	0	0	0.481	33.89	452	33.83	452
212	0	0	0	0.481	34.34	446	34.28	447
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>130 OF 215</p> </div>	Indicates Latest Revision	Completely Revised	<div style="border: 1px solid black; padding: 2px;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH821.130</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>1/0 RTS TRIPLEX TENSION 1500 LBS</p> </div>					

Completely Revised



Information Removed

OH821.130

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
1/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8
100	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1
125	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-6	1-7	1-9
150	1-1	1-2	1-4	1-5	1-7	1-9	1-11	2-1	2-4	2-6
175	1-6	1-7	1-9	1-11	2-2	2-5	2-7	2-11	3-2	3-5
200	1-11	2-1	2-4	2-7	2-10	3-1	3-5	3-9	4-1	4-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-7	0-7	0-8
100	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2
125	0-9	0-10	0-11	1-0	1-2	1-3	1-5	1-6	1-8	1-9
150	1-1	1-2	1-4	1-6	1-8	1-10	2-0	2-2	2-4	2-7
175	1-6	1-8	1-10	2-0	2-3	2-5	2-8	3-0	3-3	3-6
200	1-11	2-2	2-4	2-7	2-11	3-2	3-6	3-10	4-3	4-7

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 131 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.131
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-0	1-0	1-1	1-1	1-1	1-2	1-2	1-2	1-3	1-3
125	1-7	1-7	1-8	1-8	1-9	1-9	1-10	1-11	1-11	2-0
150	2-3	2-4	2-4	2-5	2-6	2-7	2-8	2-8	2-9	2-10
175	3-0	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10
200	4-0	4-1	4-3	4-4	4-6	4-7	4-8	4-10	4-11	5-0
225	5-0	5-2	5-4	5-6	5-8	5-10	5-11	6-1	6-3	6-5
250	6-2	6-5	6-7	6-9	7-0	7-2	7-4	7-6	7-8	7-10

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-0	1-0	1-1	1-1	1-2	1-2	1-2	1-3	1-3	1-3
125	1-7	1-7	1-8	1-9	1-9	1-10	1-10	1-11	1-11	2-0
150	2-3	2-4	2-5	2-6	2-6	2-7	2-8	2-9	2-9	2-10
175	3-1	3-2	3-3	3-4	3-5	3-6	3-8	3-9	3-10	3-11
200	4-0	4-2	4-3	4-5	4-6	4-7	4-9	4-10	5-0	5-1
225	5-1	5-3	5-5	5-7	5-8	5-10	6-0	6-2	6-3	6-5
250	6-3	6-6	6-8	6-10	7-1	7-3	7-5	7-7	7-9	7-11

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 132 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.132
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	2-8	2-8	2-9	2-9	2-9	2-10	2-10	2-10	2-11	2-11
175	3-7	3-8	3-8	3-9	3-9	3-10	3-10	3-11	3-11	4-0
200	4-9	4-9	4-10	4-10	4-11	5-0	5-0	5-1	5-2	5-2
225	6-0	6-0	6-1	6-2	6-3	6-4	6-4	6-5	6-6	6-7
250	7-4	7-5	7-6	7-7	7-8	7-9	7-10	7-11	8-0	8-1
275	8-11	9-0	9-1	9-3	9-4	9-5	9-6	9-7	9-8	9-10
300	10-7	10-9	10-10	11-0	11-1	11-3	11-4	11-5	11-7	11-8
325	12-6	12-7	12-9	12-11	13-0	13-2	13-4	13-5	13-7	13-8
350	14-5	14-7	14-9	14-11	15-1	15-3	15-5	15-7	15-9	15-11
375	16-7	16-9	17-0	17-2	17-4	17-6	17-9	17-11	18-1	18-3

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	2-8	2-8	2-9	2-9	2-9	2-10	2-10	2-10	2-11	2-11
175	3-8	3-8	3-8	3-9	3-9	3-10	3-10	3-11	3-11	4-0
200	4-9	4-9	4-10	4-11	4-11	5-0	5-1	5-1	5-2	5-2
225	6-0	6-1	6-2	6-2	6-3	6-4	6-5	6-5	6-6	6-7
250	7-5	7-6	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-1
275	9-0	9-1	9-2	9-3	9-4	9-5	9-7	9-8	9-9	9-10
300	10-8	10-9	10-11	11-0	11-2	11-3	11-4	11-6	11-7	11-8
325	12-6	12-8	12-10	12-11	13-1	13-3	13-4	13-6	13-7	13-9
350	14-6	14-8	14-10	15-0	15-2	15-4	15-6	15-8	15-10	15-11
375	16-8	16-11	17-1	17-3	17-5	17-7	17-9	18-0	18-2	18-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE				
C						F									
B						E									
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D									
SHEET 133 OF 215		Indicates Latest Revision				Completely Revised		X	New Page				Information Removed		OH821.133
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS													
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS													

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	5-0	5-0	5-1	5-1	5-1	5-2	5-2	5-2	5-3	5-3
225	6-4	6-4	6-5	6-5	6-6	6-6	6-6	6-7	6-7	6-8
250	7-10	7-10	7-11	7-11	8-0	8-0	8-1	8-1	8-2	8-2
275	9-5	9-6	9-7	9-7	9-8	9-9	9-9	9-10	9-11	9-11
300	11-3	11-4	11-4	11-5	11-6	11-7	11-8	11-8	11-9	11-10
325	13-2	13-3	13-4	13-5	13-6	13-7	13-8	13-9	13-10	13-11
350	15-4	15-5	15-6	15-7	15-8	15-9	15-10	15-11	16-0	16-1
375	17-7	17-8	17-9	17-11	18-0	18-1	18-2	18-3	18-5	18-6
400	20-0	20-1	20-3	20-4	20-6	20-7	20-8	20-10	20-11	21-1
425	22-7	22-9	22-10	23-0	23-1	23-3	23-5	23-6	23-8	23-9
450	25-4	25-6	25-8	25-9	25-11	26-1	26-3	26-4	26-6	26-8
475	28-3	28-5	28-7	28-9	28-11	29-1	29-3	29-5	29-7	29-9
500	31-4	31-6	31-8	31-10	32-1	32-3	32-5	32-7	32-9	32-11

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	5-0	5-0	5-1	5-1	5-1	5-2	5-2	5-2	5-3	5-3
225	6-4	6-4	6-5	6-5	6-6	6-6	6-7	6-7	6-7	6-8
250	7-10	7-10	7-11	7-11	8-0	8-1	8-1	8-2	8-2	8-3
275	9-6	9-6	9-7	9-8	9-8	9-9	9-9	9-10	9-11	9-11
300	11-3	11-4	11-5	11-6	11-6	11-7	11-8	11-9	11-9	11-10
325	13-3	13-4	13-5	13-5	13-6	13-7	13-8	13-9	13-10	13-11
350	15-4	15-5	15-6	15-7	15-8	15-9	15-10	15-11	16-1	16-2
375	17-7	17-9	17-10	17-11	18-0	18-2	18-3	18-4	18-5	18-6
400	20-1	20-2	20-3	20-5	20-6	20-8	20-9	20-10	21-0	21-1
425	22-8	22-9	22-11	23-1	23-2	23-4	23-5	23-7	23-8	23-10
450	25-5	25-7	25-8	25-10	26-0	26-2	26-3	26-5	26-7	26-9
475	28-4	28-6	28-8	28-10	29-0	29-2	29-4	29-5	29-7	29-9
500	31-5	31-7	31-9	31-11	32-1	32-4	32-6	32-8	32-10	33-0

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[illegible]

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.58	24.93	2000	24.93	2000*
20	0	0	0	0.481	22.87	663	22.77	666
30	0	0	0	0.481	23.02	658	22.93	661
40	0	0	0	0.481	23.18	654	23.08	657
50	0	0	0	0.481	23.33	650	23.24	652
60	0	0	0	0.481	23.49	646	23.4	648
70	0	0	0	0.481	23.64	641	23.55	644
80	0	0	0	0.481	23.79	637	23.71	640
90	0	0	0	0.481	23.94	634	23.86	636
100	0	0	0	0.481	24.1	630	24.02	632
110	0	0	0	0.481	24.24	626	24.17	628
120	0	0	0	0.481	24.39	622	24.32	624
130	0	0	0	0.481	24.54	618	24.47	620
167	0	0	0	0.481	25.07	606	24.98	608
212	0	0	0	0.481	25.66	592	25.57	594

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>138 OF 215</div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH821.138	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4
100	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7
125	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11
150	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-2	1-3	1-4
175	0-11	1-0	1-1	1-1	1-2	1-4	1-5	1-6	1-8	1-10
200	1-2	1-3	1-4	1-5	1-7	1-8	1-10	2-0	2-2	2-5

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4
100	0-4	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8
125	0-6	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-0
150	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-5
175	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-9	1-11
200	1-3	1-4	1-5	1-6	1-7	1-9	1-11	2-1	2-4	2-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 139 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.139
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-9	0-10
125	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-3
150	1-2	1-3	1-4	1-4	1-5	1-6	1-7	1-8	1-9	1-10
175	1-7	1-8	1-9	1-10	2-0	2-1	2-2	2-4	2-5	2-6
200	2-1	2-2	2-4	2-5	2-7	2-9	2-10	3-0	3-2	3-3
225	2-7	2-9	2-11	3-1	3-3	3-5	3-7	3-10	4-0	4-2
250	3-2	3-5	3-7	3-10	4-0	4-3	4-6	4-8	4-11	5-1

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-6	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-10
125	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4
150	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11
175	1-7	1-8	1-10	1-11	2-0	2-2	2-3	2-4	2-5	2-7
200	2-1	2-3	2-4	2-6	2-8	2-9	2-11	3-1	3-2	3-4
225	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-11	4-1	4-3
250	3-3	3-6	3-8	3-11	4-2	4-4	4-7	4-9	5-0	5-3

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>140 OF 215</h2> </div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH821.140	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	1-8	1-9	1-9	1-10	1-10	1-11	1-11	2-0	2-0	2-1
175	2-4	2-4	2-5	2-6	2-6	2-7	2-8	2-8	2-9	2-9
200	3-0	3-1	3-2	3-3	3-3	3-4	3-5	3-6	3-7	3-8
225	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7
250	4-8	4-10	4-11	5-0	5-2	5-3	5-4	5-6	5-7	5-8
275	5-8	5-10	5-11	6-1	6-3	6-4	6-6	6-7	6-9	6-10
300	6-9	6-11	7-1	7-3	7-5	7-7	7-9	7-11	8-0	8-2
325	7-11	8-1	8-4	8-6	8-8	8-11	9-1	9-3	9-5	9-7
350	9-2	9-5	9-8	9-10	10-1	10-4	10-6	10-9	10-11	11-2
375	10-7	10-10	11-1	11-4	11-7	11-10	12-1	12-4	12-7	12-10

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	1-9	1-9	1-10	1-10	1-10	1-11	1-11	2-0	2-0	2-1
175	2-4	2-5	2-5	2-6	2-7	2-7	2-8	2-8	2-9	2-10
200	3-1	3-1	3-2	3-3	3-4	3-5	3-6	3-6	3-7	3-8
225	3-10	3-11	4-0	4-1	4-3	4-4	4-5	4-6	4-7	4-8
250	4-9	4-10	5-0	5-1	5-2	5-4	5-5	5-6	5-8	5-9
275	5-9	5-11	6-0	6-2	6-4	6-5	6-7	6-8	6-10	6-11
300	6-10	7-0	7-2	7-4	7-6	7-8	7-10	7-11	8-1	8-3
325	8-0	8-3	8-5	8-7	8-10	9-0	9-2	9-4	9-6	9-8
350	9-4	9-7	9-9	10-0	10-2	10-5	10-8	10-10	11-0	11-3
375	10-8	11-0	11-3	11-6	11-9	12-0	12-2	12-5	12-8	12-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 141 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH821.141
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	3-5	3-6	3-6	3-7	3-7	3-8	3-8	3-8	3-9	3-9
225	4-4	4-5	4-5	4-6	4-6	4-7	4-8	4-8	4-9	4-9
250	5-4	5-5	5-6	5-7	5-7	5-8	5-9	5-9	5-10	5-11
275	6-6	6-7	6-8	6-9	6-9	6-10	6-11	7-0	7-1	7-2
300	7-9	7-10	7-11	8-0	8-1	8-2	8-3	8-4	8-5	8-6
325	9-1	9-2	9-3	9-5	9-6	9-7	9-8	9-9	9-11	10-0
350	10-6	10-8	10-9	10-11	11-0	11-1	11-3	11-4	11-6	11-7
375	12-1	12-2	12-4	12-6	12-8	12-9	12-11	13-0	13-2	13-4
400	13-9	13-11	14-1	14-3	14-4	14-6	14-8	14-10	15-0	15-2
425	15-6	15-8	15-10	16-1	16-3	16-5	16-7	16-9	16-11	17-1
450	17-5	17-7	17-9	18-0	18-2	18-5	18-7	18-9	19-0	19-2
475	19-4	19-7	19-10	20-1	20-3	20-6	20-9	20-11	21-2	21-4
500	21-6	21-9	22-0	22-3	22-6	22-9	23-0	23-3	23-5	23-8

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	3-5	3-6	3-6	3-7	3-7	3-8	3-8	3-9	3-9	3-10
225	4-4	4-5	4-6	4-6	4-7	4-7	4-8	4-9	4-9	4-10
250	5-5	5-5	5-6	5-7	5-8	5-8	5-9	5-10	5-11	5-11
275	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-1	7-1	7-2
300	7-9	7-10	7-11	8-0	8-2	8-3	8-4	8-5	8-6	8-7
325	9-1	9-3	9-4	9-5	9-6	9-8	9-9	9-10	9-11	10-0
350	10-7	10-8	10-10	10-11	11-1	11-2	11-4	11-5	11-6	11-8
375	12-2	12-3	12-5	12-7	12-8	12-10	13-0	13-1	13-3	13-4
400	13-10	14-0	14-2	14-4	14-6	14-7	14-9	14-11	15-1	15-3
425	15-7	15-10	16-0	16-2	16-4	16-6	16-8	16-10	17-0	17-2
450	17-6	17-9	17-11	18-1	18-4	18-6	18-8	18-11	19-1	19-3
475	19-6	19-9	20-0	20-2	20-5	20-7	20-10	21-1	21-3	21-6
500	21-7	21-10	22-1	22-4	22-7	22-10	23-1	23-4	23-7	23-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 142 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH821.142
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS										

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>144 OF 215</h2> </div>		Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	OH821.144			
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.58	32.43	1000	32.43	1000*
0	0	0	0	0.481	31.88	309	31.85	310
30	0	0	0	0.481	32.1	307	32.08	308
40	0	0	0	0.481	32.18	307	32.15	307
50	0	0	0	0.481	32.25	306	32.23	306
60	0	0	0	0.481	32.33	305	32.31	306
70	0	0	0	0.481	32.4	305	32.38	305
80	0	0	0	0.481	32.48	304	32.46	304
90	0	0	0	0.481	32.55	303	32.54	304
100	0	0	0	0.481	32.62	303	32.61	303
110	0	0	0	0.481	32.7	302	32.68	302
120	0	0	0	0.481	32.77	301	32.74	302
130	0	0	0	0.481	32.84	301	32.81	301
167	0	0	0	0.481	33.09	299	33.06	299
212	0	0	0	0.481	33.39	296	33.36	296
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 145 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.145
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.58	51.46	1000	51.46	1000*
0	0	0	0	0.481	50.92	307	50.89	308
30	0	0	0	0.481	51.14	306	51.12	306
40	0	0	0	0.481	51.22	306	51.19	306
50	0	0	0	0.481	51.29	305	51.27	306
60	0	0	0	0.481	51.37	305	51.35	305
70	0	0	0	0.481	51.44	305	51.42	305
80	0	0	0	0.481	51.51	304	51.5	304
90	0	0	0	0.481	51.59	304	51.57	304
100	0	0	0	0.481	51.66	303	51.65	303
110	0	0	0	0.481	51.74	303	51.72	303
120	0	0	0	0.481	51.81	303	51.78	303
130	0	0	0	0.481	51.88	302	51.85	302
167	0	0	0	0.481	52.13	301	52.1	301
212	0	0	0	0.481	52.43	299	52.4	299

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>146 OF 215</p> </div>	Indicates Latest Revision	Completely Revised	<input checked="" type="checkbox"/> New Page	Information Removed	<div style="text-align: center;"> <p>OH821.146</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING</p> <p>1/0 RTS TRIPLEX TENSION 1000 LBS</p> </div>				

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-2	1-3
100	1-7	1-8	1-9	1-10	1-10	1-11	2-0	2-1	2-2	2-2
125	2-5	2-7	2-8	2-10	2-11	3-0	3-2	3-3	3-4	3-5
150	3-6	3-8	3-10	4-0	4-2	4-4	4-6	4-8	4-10	4-11
175	4-9	5-0	5-3	5-6	5-9	5-11	6-2	6-4	6-7	6-9
200	6-3	6-7	6-10	7-2	7-6	7-9	8-1	8-4	8-7	8-10

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3
100	1-7	1-8	1-9	1-10	1-11	1-11	2-0	2-1	2-2	2-3
125	2-6	2-7	2-9	2-10	2-11	3-1	3-2	3-3	3-4	3-6
150	3-7	3-9	3-11	4-1	4-3	4-5	4-7	4-8	4-10	5-0
175	4-10	5-1	5-4	5-7	5-9	6-0	6-2	6-5	6-7	6-10
200	6-4	6-8	7-0	7-3	7-7	7-10	8-1	8-5	8-8	8-11

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Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-11	1-11	1-11	1-11	1-11	2-0	2-0	2-0	2-0	2-1
125	2-11	3-0	3-0	3-0	3-1	3-1	3-1	3-2	3-2	3-2
150	4-3	4-3	4-4	4-4	4-5	4-5	4-6	4-6	4-7	4-7
175	5-9	5-10	5-11	5-11	6-0	6-1	6-1	6-2	6-3	6-3
200	7-6	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-2
225	9-6	9-7	9-9	9-10	9-11	10-0	10-1	10-2	10-4	10-5
250	11-9	11-11	12-0	12-2	12-3	12-4	12-6	12-7	12-9	12-10

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-11	1-11	1-11	1-11	2-0	2-0	2-0	2-0	2-0	2-1
125	2-11	3-0	3-0	3-0	3-1	3-1	3-1	3-2	3-2	3-2
150	4-3	4-3	4-4	4-4	4-5	4-5	4-6	4-6	4-7	4-7
175	5-9	5-10	5-11	5-11	6-0	6-1	6-1	6-2	6-3	6-3
200	7-7	7-8	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3
225	9-7	9-8	9-9	9-10	9-11	10-0	10-2	10-3	10-4	10-5
250	11-10	11-11	12-1	12-2	12-3	12-5	12-6	12-8	12-9	12-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 148 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH821.148
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS										

Stringing Sag Table Using Initial Sag							Ruling Span: 300.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	4-5	4-5	4-5	4-5	4-6	4-6	4-6	4-6	4-6	4-7
175	6-0	6-0	6-0	6-1	6-1	6-1	6-2	6-2	6-2	6-2
200	7-10	7-10	7-10	7-11	7-11	8-0	8-0	8-0	8-1	8-1
225	9-11	9-11	10-0	10-0	10-1	10-1	10-2	10-2	10-3	10-3
250	12-2	12-3	12-4	12-4	12-5	12-6	12-6	12-7	12-8	12-8
275	14-9	14-10	14-11	15-0	15-0	15-1	15-2	15-3	15-3	15-4
300	17-7	17-8	17-9	17-10	17-11	18-0	18-1	18-2	18-3	18-3
325	20-8	20-9	20-10	20-11	21-0	21-2	21-3	21-4	21-5	21-6
350	24-0	24-1	24-3	24-4	24-5	24-6	24-8	24-9	24-10	24-11
375	27-7	27-8	27-10	27-11	28-1	28-2	28-4	28-5	28-6	28-8

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	4-5	4-5	4-5	4-5	4-6	4-6	4-6	4-6	4-6	4-7
175	6-0	6-0	6-0	6-1	6-1	6-1	6-2	6-2	6-2	6-2
200	7-10	7-10	7-11	7-11	7-11	8-0	8-0	8-1	8-1	8-1
225	9-11	9-11	10-0	10-0	10-1	10-1	10-2	10-2	10-3	10-3
250	12-3	12-3	12-4	12-5	12-5	12-6	12-6	12-7	12-8	12-8
275	14-10	14-10	14-11	15-0	15-1	15-1	15-2	15-3	15-4	15-4
300	17-8	17-8	17-9	17-10	17-11	18-0	18-1	18-2	18-3	18-4
325	20-8	20-10	20-11	21-0	21-1	21-2	21-3	21-4	21-5	21-6
350	24-0	24-2	24-3	24-4	24-5	24-7	24-8	24-9	24-10	24-11
375	27-7	27-9	27-10	28-0	28-1	28-2	28-4	28-5	28-7	28-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 149 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.149
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.58	21.3	1500	21.3	1500*
0	0	0	0	0.481	20.18	482	20.11	483
30	0	0	0	0.481	20.52	474	20.46	475
40	0	0	0	0.481	20.63	471	20.58	472
50	0	0	0	0.481	20.75	469	20.69	470
60	0	0	0	0.481	20.86	466	20.81	467
70	0	0	0	0.481	20.97	464	20.92	465
80	0	0	0	0.481	21.08	461	21.04	462
90	0	0	0	0.481	21.19	459	21.15	460
100	0	0	0	0.481	21.3	457	21.26	458
110	0	0	0	0.481	21.41	454	21.38	455
120	0	0	0	0.481	21.52	452	21.49	453
130	0	0	0	0.481	21.63	450	21.59	451
167	0	0	0	0.481	22	442	21.95	444
212	0	0	0	0.481	22.44	434	22.39	435
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 153 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.153
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.58	33.5	1500	33.5	1500*
0	0	0	0	0.481	32.38	472	32.32	473
30	0	0	0	0.481	32.72	467	32.66	468
40	0	0	0	0.481	32.83	466	32.78	466
50	0	0	0	0.481	32.95	464	32.89	465
60	0	0	0	0.481	33.06	463	33.01	463
70	0	0	0	0.481	33.17	461	33.12	462
80	0	0	0	0.481	33.28	460	33.24	460
90	0	0	0	0.481	33.39	458	33.35	459
100	0	0	0	0.481	33.5	457	33.47	457
110	0	0	0	0.481	33.61	455	33.58	456
120	0	0	0	0.481	33.73	454	33.69	454
130	0	0	0	0.481	33.84	452	33.79	453
167	0	0	0	0.481	34.21	448	34.16	448
212	0	0	0	0.481	34.66	442	34.6	443

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>154 OF 215</p> </div>	Indicates Latest Revision	Completely Revised	X New Page	Information Removed	<div style="text-align: center;"> <p>OH821.154</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING</p> <p>1/0 RTS TRIPLEX TENSION 1500 LBS</p> </div>				

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-9
100	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-5
125	1-0	1-1	1-2	1-4	1-6	1-7	1-9	1-11	2-0	2-2
150	1-5	1-7	1-9	1-11	2-1	2-4	2-6	2-8	2-11	3-1
175	1-11	2-2	2-4	2-7	2-10	3-2	3-5	3-8	3-11	4-3
200	2-7	2-10	3-1	3-5	3-9	4-1	4-5	4-10	5-2	5-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-8	0-9	0-9
100	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
125	1-0	1-2	1-3	1-5	1-6	1-8	1-9	1-11	2-1	2-2
150	1-6	1-8	1-10	2-0	2-2	2-4	2-7	2-9	3-0	3-2
175	2-0	2-3	2-5	2-8	3-0	3-3	3-6	3-9	4-0	4-4
200	2-7	2-11	3-2	3-6	3-10	4-3	4-7	4-11	5-3	5-7

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C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 155 OF 215		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed			OH821.155
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-1	1-1	1-2	1-2	1-2	1-3	1-3	1-3	1-4	1-4
125	1-8	1-9	1-9	1-10	1-11	1-11	2-0	2-0	2-1	2-1
150	2-5	2-6	2-7	2-8	2-8	2-9	2-10	2-11	2-11	3-0
175	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1
200	4-4	4-5	4-7	4-8	4-10	4-11	5-0	5-2	5-3	5-4
225	5-6	5-8	5-9	5-11	6-1	6-3	6-4	6-6	6-8	6-9
250	6-9	7-0	7-2	7-4	7-6	7-8	7-10	8-0	8-2	8-4

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-1	1-2	1-2	1-2	1-3	1-3	1-3	1-4	1-4	1-4
125	1-9	1-9	1-10	1-10	1-11	1-11	2-0	2-0	2-1	2-1
150	2-6	2-6	2-7	2-8	2-9	2-9	2-10	2-11	3-0	3-0
175	3-4	3-5	3-6	3-8	3-9	3-10	3-11	4-0	4-1	4-1
200	4-5	4-6	4-7	4-9	4-10	5-0	5-1	5-2	5-3	5-5
225	5-7	5-8	5-10	6-0	6-2	6-3	6-5	6-7	6-8	6-10
250	6-10	7-1	7-3	7-5	7-7	7-9	7-11	8-1	8-3	8-5

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 156 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.156
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING									
		1/0 RTS TRIPLEX TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	2-9	2-9	2-10	2-10	2-10	2-11	2-11	2-11	3-0	3-0
175	3-9	3-9	3-10	3-10	3-11	3-11	4-0	4-0	4-0	4-1
200	4-10	4-11	5-0	5-0	5-1	5-2	5-2	5-3	5-3	5-4
225	6-2	6-3	6-4	6-4	6-5	6-6	6-7	6-7	6-8	6-9
250	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3	8-4
275	9-3	9-4	9-5	9-6	9-7	9-8	9-10	9-11	10-0	10-1
300	11-0	11-1	11-2	11-4	11-5	11-7	11-8	11-9	11-11	12-0
325	12-11	13-0	13-2	13-3	13-5	13-7	13-8	13-10	13-11	14-1
350	14-11	15-1	15-3	15-5	15-7	15-9	15-11	16-0	16-2	16-4
375	17-2	17-4	17-6	17-8	17-11	18-1	18-3	18-5	18-7	18-9

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	2-9	2-9	2-10	2-10	2-10	2-11	2-11	2-11	3-0	3-0
175	3-9	3-9	3-10	3-10	3-11	3-11	4-0	4-0	4-1	4-1
200	4-11	4-11	5-0	5-1	5-1	5-2	5-2	5-3	5-4	5-4
225	6-2	6-3	6-4	6-5	6-5	6-6	6-7	6-8	6-8	6-9
250	7-8	7-9	7-10	7-11	8-0	8-1	8-1	8-2	8-3	8-4
275	9-3	9-4	9-5	9-7	9-8	9-9	9-10	9-11	10-0	10-1
300	11-0	11-2	11-3	11-4	11-6	11-7	11-8	11-10	11-11	12-0
325	12-11	13-1	13-3	13-4	13-6	13-7	13-9	13-10	14-0	14-2
350	15-0	15-2	15-4	15-6	15-8	15-10	15-11	16-1	16-3	16-5
375	17-3	17-5	17-7	17-9	18-0	18-2	18-4	18-6	18-8	18-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 157 OF 215		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH821.157
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	5-1	5-1	5-2	5-2	5-2	5-3	5-3	5-3	5-4	5-4
225	6-5	6-6	6-6	6-6	6-7	6-7	6-8	6-8	6-9	6-9
250	7-11	8-0	8-0	8-1	8-1	8-2	8-2	8-3	8-3	8-4
275	9-7	9-8	9-9	9-9	9-10	9-10	9-11	10-0	10-0	10-1
300	11-5	11-6	11-7	11-7	11-8	11-9	11-10	11-11	11-11	12-0
325	13-5	13-6	13-7	13-8	13-9	13-10	13-10	13-11	14-0	14-1
350	15-7	15-8	15-9	15-10	15-11	16-0	16-1	16-2	16-3	16-4
375	17-11	18-0	18-1	18-2	18-3	18-5	18-6	18-7	18-8	18-9
400	20-4	20-6	20-7	20-8	20-10	20-11	21-0	21-2	21-3	21-5
425	23-0	23-1	23-3	23-4	23-6	23-8	23-9	23-11	24-0	24-2
450	25-9	25-11	26-1	26-3	26-4	26-6	26-8	26-10	26-11	27-1
475	28-9	28-11	29-1	29-3	29-5	29-7	29-9	29-10	30-0	30-2
500	31-10	32-0	32-3	32-5	32-7	32-9	32-11	33-1	33-4	33-6

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	5-1	5-1	5-2	5-2	5-2	5-3	5-3	5-3	5-4	5-4
225	6-5	6-6	6-6	6-7	6-7	6-7	6-8	6-8	6-9	6-9
250	7-11	8-0	8-1	8-1	8-2	8-2	8-3	8-3	8-4	8-4
275	9-8	9-8	9-9	9-9	9-10	9-11	9-11	10-0	10-1	10-1
300	11-6	11-6	11-7	11-8	11-9	11-9	11-10	11-11	12-0	12-0
325	13-5	13-6	13-7	13-8	13-9	13-10	13-11	14-0	14-1	14-1
350	15-7	15-8	15-9	15-10	15-11	16-1	16-2	16-3	16-4	16-5
375	17-11	18-0	18-2	18-3	18-4	18-5	18-6	18-7	18-9	18-10
400	20-5	20-6	20-8	20-9	20-10	21-0	21-1	21-2	21-4	21-5
425	23-1	23-2	23-4	23-5	23-7	23-8	23-10	23-11	24-1	24-2
450	25-10	26-0	26-2	26-3	26-5	26-7	26-9	26-10	27-0	27-2
475	28-10	29-0	29-2	29-4	29-5	29-7	29-9	29-11	30-1	30-3
500	31-11	32-1	32-4	32-6	32-8	32-10	33-0	33-2	33-4	33-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>158 OF 215</h2> </div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH821.158	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	8-1	8-2	8-2	8-2	8-3	8-3	8-3	8-4	8-4	8-4
275	9-10	9-10	9-11	9-11	9-11	10-0	10-0	10-1	10-1	10-1
300	11-8	11-9	11-9	11-10	11-10	11-11	11-11	12-0	12-0	12-1
325	13-8	13-9	13-10	13-10	13-11	13-11	14-0	14-1	14-1	14-2
350	15-11	16-0	16-0	16-1	16-2	16-2	16-3	16-4	16-4	16-5
375	18-3	18-4	18-5	18-5	18-6	18-7	18-8	18-9	18-9	18-10
400	20-9	20-10	20-11	21-0	21-1	21-2	21-3	21-4	21-4	21-5
425	23-6	23-7	23-8	23-9	23-10	23-11	24-0	24-1	24-2	24-3
450	26-4	26-5	26-6	26-7	26-8	26-10	26-11	27-0	27-1	27-2
475	29-4	29-6	29-7	29-8	29-9	29-11	30-0	30-1	30-2	30-3
500	32-7	32-8	32-9	32-11	33-0	33-1	33-3	33-4	33-6	33-7
525	35-11	36-0	36-2	36-3	36-5	36-6	36-8	36-10	36-11	37-1
550	39-5	39-7	39-9	39-10	40-0	40-2	40-3	40-5	40-7	40-8
575	43-1	43-3	43-5	43-7	43-9	43-11	44-0	44-2	44-4	44-6
600	47-0	47-2	47-4	47-6	47-8	47-10	48-0	48-2	48-4	48-6
625	51-0	51-2	51-5	51-7	51-9	51-11	52-1	52-3	52-6	52-8

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	8-1	8-2	8-2	8-2	8-3	8-3	8-3	8-4	8-4	8-4
275	9-10	9-10	9-11	9-11	10-0	10-0	10-0	10-1	10-1	10-2
300	11-8	11-9	11-9	11-10	11-10	11-11	11-11	12-0	12-0	12-1
325	13-9	13-9	13-10	13-10	13-11	14-0	14-0	14-1	14-1	14-2
350	15-11	16-0	16-1	16-1	16-2	16-2	16-3	16-4	16-4	16-5
375	18-4	18-4	18-5	18-6	18-7	18-7	18-8	18-9	18-10	18-10
400	20-10	20-11	21-0	21-1	21-1	21-2	21-3	21-4	21-5	21-6
425	23-6	23-7	23-8	23-9	23-10	23-11	24-0	24-1	24-2	24-3
450	26-5	26-6	26-7	26-8	26-9	26-10	26-11	27-0	27-1	27-2
475	29-5	29-6	29-7	29-9	29-10	29-11	30-0	30-1	30-3	30-4
500	32-7	32-9	32-10	32-11	33-1	33-2	33-3	33-5	33-6	33-7
525	36-0	36-1	36-3	36-4	36-6	36-7	36-9	36-10	37-0	37-1
550	39-6	39-8	39-9	39-11	40-1	40-2	40-4	40-5	40-7	40-9
575	43-2	43-4	43-6	43-8	43-10	43-11	44-1	44-3	44-5	44-6
600	47-1	47-3	47-5	47-7	47-9	47-11	48-1	48-3	48-4	48-6
625	51-1	51-3	51-6	51-8	51-10	52-0	52-2	52-4	52-6	52-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>159 OF 215</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.159
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.58	3.96	2000	3.96	2000*
0	0	0	0	0.481	2.23	1080	2.17	1111
30	0	0	0	0.481	2.64	911	2.57	938
40	0	0	0	0.481	2.78	865	2.71	890
50	0	0	0	0.481	2.92	823	2.85	846
60	0	0	0	0.481	3.06	786	2.99	806
70	0	0	0	0.481	3.2	751	3.13	770
80	0	0	0	0.481	3.34	721	3.27	737
90	0	0	0	0.481	3.48	692	3.4	707
100	0	0	0	0.481	3.61	667	3.54	680
110	0	0	0	0.481	3.74	643	3.67	655
120	0	0	0	0.481	3.87	622	3.81	633
130	0	0	0	0.481	4	602	3.94	612
167	0	0	0	0.481	4.43	544	4.36	553
212	0	0	0	0.481	4.9	492	4.82	500

* Design Condition

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 160 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.160
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.58	15.9	2000	15.9	2000*
0	0	0	0	0.481	13.99	691	13.88	696
30	0	0	0	0.481	14.46	669	14.36	674
40	0	0	0	0.481	14.61	662	14.51	666
50	0	0	0	0.481	14.77	655	14.67	659
60	0	0	0	0.481	14.92	648	14.82	652
70	0	0	0	0.481	15.07	642	14.98	646
80	0	0	0	0.481	15.22	636	15.13	639
90	0	0	0	0.481	15.37	630	15.28	633
100	0	0	0	0.481	15.51	624	15.43	627
110	0	0	0	0.481	15.66	618	15.58	621
120	0	0	0	0.481	15.8	612	15.73	615
130	0	0	0	0.481	15.95	607	15.88	610
167	0	0	0	0.481	16.45	589	16.37	592
212	0	0	0	0.481	17.01	570	16.93	572


* Design Condition

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C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D							
SHEET 161 OF 215		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH821.161
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS											

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.58	24.93	2000	24.93	2000*
0	0	0	0	0.481	23.02	658	22.92	661
30	0	0	0	0.481	23.49	646	23.39	648
40	0	0	0	0.481	23.64	641	23.54	644
50	0	0	0	0.481	23.79	637	23.7	640
60	0	0	0	0.481	23.94	634	23.85	636
70	0	0	0	0.481	24.1	630	24	632
80	0	0	0	0.481	24.24	626	24.16	628
90	0	0	0	0.481	24.39	622	24.31	624
100	0	0	0	0.481	24.54	618	24.46	620
110	0	0	0	0.481	24.69	615	24.61	617
120	0	0	0	0.481	24.83	611	24.76	613
130	0	0	0	0.481	24.98	608	24.91	609
167	0	0	0	0.481	25.49	596	25.41	598
212	0	0	0	0.481	26.07	583	25.99	585
* Design Condition								

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D							
SHEET 162 OF 215		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH821.162
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS											

<div style="text-align: center;"> <p>SHEET</p> <p>162 OF 215</p> </div>	Indicates Latest Revision	Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH821.162</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING</p> <p>1/0 RTS TRIPLEX TENSION 2000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5
100	0-4	0-5	0-5	0-5	0-6	0-7	0-7	0-8	0-9	0-10
125	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-2	1-3
150	0-10	0-11	0-11	1-0	1-1	1-3	1-4	1-6	1-8	1-10
175	1-1	1-2	1-3	1-5	1-6	1-8	1-10	2-0	2-3	2-6
200	1-5	1-7	1-8	1-10	2-0	2-2	2-5	2-8	2-11	3-3

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-5	0-5	0-6
100	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10
125	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-4
150	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-9	1-11
175	1-2	1-3	1-4	1-5	1-7	1-9	1-11	2-2	2-4	2-7
200	1-6	1-7	1-9	1-11	2-1	2-3	2-6	2-9	3-1	3-5

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>163 OF 215</h2> </div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH821.163	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-7	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-11	0-11
125	0-11	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-5
150	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1
175	1-10	2-0	2-1	2-2	2-3	2-5	2-6	2-7	2-9	2-10
200	2-5	2-7	2-8	2-10	3-0	3-2	3-3	3-5	3-6	3-8
225	3-1	3-3	3-5	3-7	3-9	3-11	4-2	4-4	4-6	4-8
250	3-10	4-0	4-3	4-5	4-8	4-11	5-1	5-4	5-6	5-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	0-8	0-8	0-8	0-9	0-9	0-10	0-10	0-10	0-11	0-11
125	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-6
150	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-11	2-0	2-1
175	1-11	2-0	2-2	2-3	2-4	2-5	2-7	2-8	2-9	2-10
200	2-6	2-8	2-9	2-11	3-1	3-2	3-4	3-6	3-7	3-9
225	3-2	3-4	3-6	3-8	3-11	4-1	4-3	4-5	4-7	4-9
250	3-11	4-2	4-4	4-7	4-9	5-0	5-3	5-5	5-8	5-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>164 OF 215</div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH821.164	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	1-10	1-10	1-11	1-11	2-0	2-0	2-0	2-1	2-1	2-2
175	2-6	2-6	2-7	2-7	2-8	2-9	2-9	2-10	2-11	2-11
200	3-3	3-3	3-4	3-5	3-6	3-7	3-8	3-8	3-9	3-10
225	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10
250	5-0	5-2	5-3	5-4	5-6	5-7	5-8	5-9	5-11	6-0
275	6-1	6-3	6-4	6-6	6-7	6-9	6-10	7-0	7-1	7-3
300	7-3	7-5	7-7	7-9	7-10	8-0	8-2	8-4	8-6	8-7
325	8-6	8-8	8-10	9-1	9-3	9-5	9-7	9-9	9-11	10-1
350	9-10	10-1	10-3	10-6	10-8	10-11	11-1	11-4	11-6	11-9
375	11-4	11-7	11-10	12-1	12-4	12-6	12-9	13-0	13-3	13-6

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	1-10	1-10	1-11	1-11	2-0	2-0	2-1	2-1	2-2	2-2
175	2-6	2-7	2-7	2-8	2-8	2-9	2-10	2-10	2-11	2-11
200	3-3	3-4	3-5	3-6	3-6	3-7	3-8	3-9	3-10	3-10
225	4-1	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11
250	5-1	5-2	5-4	5-5	5-6	5-8	5-9	5-10	5-11	6-0
275	6-2	6-4	6-5	6-7	6-8	6-10	6-11	7-1	7-2	7-4
300	7-4	7-6	7-8	7-10	7-11	8-1	8-3	8-5	8-7	8-8
325	8-7	8-10	9-0	9-2	9-4	9-6	9-8	9-10	10-0	10-2
350	10-0	10-2	10-5	10-8	10-10	11-0	11-3	11-5	11-8	11-10
375	11-6	11-9	12-0	12-2	12-5	12-8	12-11	13-2	13-4	13-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 165 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH821.165
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	3-7	3-7	3-7	3-8	3-8	3-9	3-9	3-10	3-10	3-11
225	4-6	4-6	4-7	4-8	4-8	4-9	4-9	4-10	4-11	4-11
250	5-6	5-7	5-8	5-9	5-9	5-10	5-11	6-0	6-0	6-1
275	6-8	6-9	6-10	6-11	7-0	7-1	7-2	7-3	7-3	7-4
300	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9
325	9-4	9-6	9-7	9-8	9-9	9-11	10-0	10-1	10-2	10-3
350	10-10	11-0	11-1	11-3	11-4	11-6	11-7	11-8	11-10	11-11
375	12-6	12-7	12-9	12-11	13-0	13-2	13-4	13-5	13-7	13-8
400	14-2	14-4	14-6	14-8	14-10	15-0	15-2	15-3	15-5	15-7
425	16-0	16-3	16-5	16-7	16-9	16-11	17-1	17-3	17-5	17-7
450	18-0	18-2	18-5	18-7	18-9	19-0	19-2	19-4	19-7	19-9
475	20-0	20-3	20-6	20-8	20-11	21-2	21-4	21-7	21-9	22-0
500	22-2	22-5	22-8	22-11	23-2	23-5	23-8	23-11	24-2	24-4

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	3-7	3-7	3-8	3-8	3-9	3-9	3-10	3-10	3-10	3-11
225	4-6	4-7	4-7	4-8	4-9	4-9	4-10	4-10	4-11	4-11
250	5-7	5-8	5-8	5-9	5-10	5-11	5-11	6-0	6-1	6-1
275	6-9	6-10	6-11	7-0	7-1	7-1	7-2	7-3	7-4	7-5
300	8-0	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9	8-10
325	9-5	9-6	9-8	9-9	9-10	9-11	10-0	10-2	10-3	10-4
350	10-11	11-1	11-2	11-4	11-5	11-6	11-8	11-9	11-10	12-0
375	12-7	12-8	12-10	13-0	13-1	13-3	13-4	13-6	13-8	13-9
400	14-4	14-6	14-7	14-9	14-11	15-1	15-3	15-4	15-6	15-8
425	16-2	16-4	16-6	16-8	16-10	17-0	17-2	17-4	17-6	17-8
450	18-1	18-4	18-6	18-8	18-11	19-1	19-3	19-6	19-8	19-10
475	20-2	20-5	20-7	20-10	21-1	21-3	21-6	21-8	21-11	22-1
500	22-4	22-7	22-10	23-1	23-4	23-7	23-10	24-0	24-3	24-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 166 OF 215		Indicates Latest Revision									OH821.166
		Completely Revised X New Page Information Removed									
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.607	13.26	1000	13.26	1000*
20	0	0	0	0.481	12.84	190	12.82	191
30	0	0	0	0.481	12.89	190	12.87	190
40	0	0	0	0.481	12.93	189	12.91	189
50	0	0	0	0.481	12.98	188	12.96	189
60	0	0	0	0.481	13.03	188	13.01	188
70	0	0	0	0.481	13.07	187	13.06	187
80	0	0	0	0.481	13.12	187	13.1	187
90	0	0	0	0.481	13.16	186	13.15	186
100	0	0	0	0.481	13.21	185	13.19	186
110	0	0	0	0.481	13.25	185	13.23	185
120	0	0	0	0.481	13.29	184	13.27	184
130	0	0	0	0.481	13.33	184	13.31	184
167	0	0	0	0.481	13.48	182	13.46	182
212	0	0	0	0.481	13.67	179	13.64	180

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D							
SHEET 168 OF 215		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH821.168
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS											

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.607	56.29	1000	56.29	1000*
20	0	0	0	0.481	55.87	186	55.85	186
30	0	0	0	0.481	55.92	186	55.9	186
40	0	0	0	0.481	55.97	185	55.95	185
50	0	0	0	0.481	56.01	185	55.99	185
60	0	0	0	0.481	56.06	185	56.04	185
70	0	0	0	0.481	56.1	185	56.09	185
80	0	0	0	0.481	56.15	185	56.13	185
90	0	0	0	0.481	56.19	185	56.17	185
100	0	0	0	0.481	56.24	185	56.22	185
110	0	0	0	0.481	56.28	185	56.26	185
120	0	0	0	0.481	56.32	184	56.3	185
130	0	0	0	0.481	56.36	184	56.34	184
167	0	0	0	0.481	56.51	184	56.49	184
212	0	0	0	0.481	56.7	183	56.67	183
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 169 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH821.169
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS										

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.607	92.8	1000	92.8	1000*
20	0	0	0	0.481	92.38	185	92.36	185
30	0	0	0	0.481	92.43	185	92.41	185
40	0	0	0	0.481	92.47	185	92.46	185
50	0	0	0	0.481	92.52	185	92.5	185
60	0	0	0	0.481	92.56	185	92.55	185
70	0	0	0	0.481	92.61	185	92.59	185
80	0	0	0	0.481	92.65	185	92.64	185
90	0	0	0	0.481	92.7	185	92.68	185
100	0	0	0	0.481	92.74	185	92.72	185
110	0	0	0	0.481	92.79	185	92.76	185
120	0	0	0	0.481	92.83	184	92.8	185
130	0	0	0	0.481	92.87	184	92.84	184
167	0	0	0	0.481	93.02	184	93	184
212	0	0	0	0.481	93.2	184	93.18	184

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>170 OF 215</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH821.170</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING</p> <p>1/0 RTS TRIPLEX TENSION 1000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	1-7	1-7	1-8	1-8	1-8	1-9	1-9	1-9	1-10	1-10
100	2-10	2-10	2-11	3-0	3-0	3-1	3-1	3-2	3-2	3-3
125	4-5	4-6	4-7	4-8	4-9	4-9	4-10	4-11	5-0	5-1
150	6-4	6-5	6-7	6-8	6-10	6-11	7-0	7-1	7-2	7-4
175	8-8	8-9	8-11	9-1	9-3	9-5	9-7	9-8	9-10	9-11
200	11-3	11-6	11-8	11-11	12-1	12-4	12-6	12-8	12-10	13-0

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75	1-7	1-7	1-8	1-8	1-8	1-9	1-9	1-9	1-10	1-10
100	2-10	2-11	2-11	3-0	3-0	3-1	3-2	3-2	3-3	3-3
125	4-5	4-6	4-7	4-8	4-9	4-10	4-11	5-0	5-0	5-1
150	6-5	6-6	6-7	6-9	6-10	6-11	7-1	7-2	7-3	7-4
175	8-8	8-10	9-0	9-2	9-4	9-5	9-7	9-9	9-11	10-0
200	11-4	11-7	11-9	12-0	12-2	12-4	12-7	12-9	12-11	13-1

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 171 OF 215		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH821.171	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	3-2	3-2	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-4
125	5-0	5-0	5-0	5-1	5-1	5-1	5-1	5-1	5-2	5-2
150	7-2	7-3	7-3	7-3	7-4	7-4	7-4	7-5	7-5	7-5
175	9-10	9-10	9-11	9-11	9-11	10-0	10-0	10-1	10-1	10-1
200	12-10	12-10	12-11	13-0	13-0	13-1	13-1	13-2	13-2	13-3
225	16-3	16-4	16-4	16-5	16-6	16-7	16-7	16-8	16-9	16-9
250	20-1	20-2	20-3	20-4	20-5	20-6	20-6	20-7	20-8	20-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	3-2	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-4
125	5-0	5-0	5-0	5-1	5-1	5-1	5-1	5-1	5-2	5-2
150	7-2	7-3	7-3	7-3	7-4	7-4	7-4	7-5	7-5	7-5
175	9-10	9-10	9-11	9-11	10-0	10-0	10-0	10-1	10-1	10-2
200	12-10	12-11	12-11	13-0	13-0	13-1	13-1	13-2	13-2	13-3
225	16-3	16-4	16-5	16-5	16-6	16-7	16-8	16-8	16-9	16-10
250	20-2	20-2	20-3	20-4	20-5	20-6	20-7	20-8	20-8	20-9

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>172 OF 215</div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH821.172	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	7-5	7-6	7-6	7-6	7-6	7-6	7-6	7-6	7-6	7-7
175	10-2	10-2	10-2	10-2	10-3	10-3	10-3	10-3	10-3	10-3
200	13-3	13-4	13-4	13-4	13-4	13-5	13-5	13-5	13-5	13-6
225	16-10	16-10	16-11	16-11	16-11	17-0	17-0	17-0	17-0	17-1
250	20-10	20-10	20-11	20-11	20-11	21-0	21-0	21-1	21-1	21-1
275	25-3	25-3	25-4	25-4	25-5	25-5	25-6	25-6	25-7	25-7
300	30-1	30-2	30-2	30-3	30-4	30-4	30-5	30-5	30-6	30-6
325	35-5	35-6	35-6	35-7	35-8	35-8	35-9	35-10	35-10	35-11
350	41-2	41-3	41-4	41-4	41-5	41-6	41-7	41-7	41-8	41-9
375	47-5	47-6	47-6	47-7	47-8	47-9	47-10	47-11	48-0	48-0

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	7-5	7-6	7-6	7-6	7-6	7-6	7-6	7-6	7-7	7-7
175	10-2	10-2	10-2	10-3	10-3	10-3	10-3	10-3	10-3	10-4
200	13-4	13-4	13-4	13-4	13-4	13-5	13-5	13-5	13-5	13-6
225	16-10	16-11	16-11	16-11	16-11	17-0	17-0	17-0	17-1	17-1
250	20-10	20-10	20-11	20-11	21-0	21-0	21-0	21-1	21-1	21-1
275	25-3	25-4	25-4	25-5	25-5	25-5	25-6	25-6	25-7	25-7
300	30-2	30-2	30-3	30-3	30-4	30-4	30-5	30-5	30-6	30-6
325	35-5	35-6	35-7	35-7	35-8	35-8	35-9	35-10	35-10	35-11
350	41-2	41-3	41-4	41-5	41-5	41-6	41-7	41-8	41-8	41-9
375	47-5	47-6	47-7	47-8	47-9	47-9	47-10	47-11	48-0	48-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 173 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.173
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	13-8	13-9	13-9	13-9	13-9	13-9	13-9	13-9	13-10	13-10
225	17-5	17-5	17-5	17-5	17-5	17-5	17-6	17-6	17-6	17-6
250	21-6	21-6	21-6	21-7	21-7	21-7	21-7	21-7	21-8	21-8
275	26-1	26-1	26-1	26-1	26-2	26-2	26-2	26-2	26-3	26-3
300	31-1	31-1	31-2	31-2	31-2	31-2	31-3	31-3	31-3	31-4
325	36-7	36-7	36-7	36-8	36-8	36-9	36-9	36-9	36-10	36-10
350	42-6	42-7	42-7	42-7	42-8	42-8	42-9	42-9	42-9	42-10
375	48-11	49-0	49-0	49-1	49-1	49-2	49-2	49-3	49-3	49-4
400	55-10	55-11	55-11	56-0	56-0	56-1	56-2	56-2	56-3	56-3
425	63-3	63-4	63-4	63-5	63-6	63-6	63-7	63-7	63-8	63-9
450	71-2	71-3	71-3	71-4	71-5	71-5	71-6	71-7	71-7	71-8
475	79-7	79-8	79-8	79-9	79-10	79-11	80-0	80-0	80-1	80-2
500	88-6	88-7	88-8	88-9	88-9	88-10	88-11	89-0	89-1	89-2

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	13-9	13-9	13-9	13-9	13-9	13-9	13-9	13-9	13-10	13-10
225	17-5	17-5	17-5	17-5	17-5	17-5	17-6	17-6	17-6	17-6
250	21-6	21-6	21-6	21-7	21-7	21-7	21-7	21-7	21-8	21-8
275	26-1	26-1	26-1	26-2	26-2	26-2	26-2	26-3	26-3	26-3
300	31-1	31-1	31-2	31-2	31-2	31-3	31-3	31-3	31-3	31-4
325	36-7	36-7	36-8	36-8	36-8	36-9	36-9	36-9	36-10	36-10
350	42-6	42-7	42-7	42-8	42-8	42-8	42-9	42-9	42-10	42-10
375	49-0	49-0	49-0	49-1	49-1	49-2	49-2	49-3	49-3	49-4
400	55-10	55-11	56-0	56-0	56-1	56-1	56-2	56-2	56-3	56-3
425	63-3	63-4	63-5	63-5	63-6	63-6	63-7	63-8	63-8	63-9
450	71-2	71-3	71-4	71-4	71-5	71-6	71-6	71-7	71-8	71-8
475	79-7	79-8	79-9	79-9	79-10	79-11	80-0	80-1	80-1	80-2
500	88-6	88-7	88-8	88-9	88-10	88-11	89-0	89-0	89-1	89-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 174 OF 215		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH821.174	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS									

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	22-5	22-5	22-5	22-5	22-5	22-5	22-5	22-5	22-6	22-6
275	27-2	27-2	27-2	27-2	27-2	27-3	27-3	27-3	27-3	27-3
300	32-5	32-5	32-5	32-5	32-5	32-6	32-6	32-6	32-6	32-6
325	38-1	38-1	38-2	38-2	38-2	38-2	38-3	38-3	38-3	38-3
350	44-4	44-4	44-4	44-5	44-5	44-5	44-5	44-6	44-6	44-6
375	51-0	51-1	51-1	51-1	51-1	51-2	51-2	51-2	51-3	51-3
400	58-3	58-3	58-4	58-4	58-4	58-5	58-5	58-5	58-6	58-6
425	66-0	66-0	66-1	66-1	66-1	66-2	66-2	66-2	66-3	66-3
450	74-3	74-3	74-4	74-4	74-5	74-5	74-5	74-6	74-6	74-7
475	83-0	83-1	83-1	83-2	83-2	83-3	83-3	83-4	83-4	83-5
500	92-5	92-5	92-6	92-6	92-7	92-7	92-8	92-8	92-9	92-9
525	102-3	102-4	102-5	102-5	102-6	102-6	102-7	102-8	102-8	102-9
550	112-9	112-10	112-10	112-11	113-0	113-0	113-1	113-2	113-2	113-3
575	123-10	123-11	123-11	124-0	124-1	124-2	124-2	124-3	124-4	124-4
600	135-6	135-7	135-7	135-8	135-9	135-10	135-11	135-11	136-0	136-1
625	147-9	147-10	147-11	148-0	148-1	148-2	148-2	148-3	148-4	148-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>175 OF 215</h2> </div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH821.175	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN 111MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	2.607	35.88	1500	35.88	1500*
20	0	0	0	0.481	35.03	283	34.99	283
30	0	0	0	0.481	35.1	283	35.06	283
40	0	0	0	0.481	35.17	282	35.13	282
50	0	0	0	0.481	35.24	281	35.2	282
60	0	0	0	0.481	35.31	281	35.27	281
70	0	0	0	0.481	35.38	280	35.34	281
80	0	0	0	0.481	35.45	280	35.41	280
90	0	0	0	0.481	35.51	279	35.48	280
100	0	0	0	0.481	35.58	279	35.55	279
110	0	0	0	0.481	35.65	278	35.61	279
120	0	0	0	0.481	35.72	278	35.68	278
130	0	0	0	0.481	35.78	277	35.74	278
167	0	0	0	0.481	36.01	276	35.97	276
212	0	0	0	0.481	36.29	274	36.24	274
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 177 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.177
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-1
100	1-2	1-3	1-5	1-6	1-7	1-7	1-8	1-9	1-10	1-11
125	1-11	2-0	2-2	2-3	2-5	2-6	2-8	2-9	2-11	3-0
150	2-8	2-11	3-1	3-3	3-6	3-8	3-10	4-0	4-2	4-4
175	3-8	3-11	4-3	4-6	4-9	5-0	5-3	5-5	5-8	5-11
200	4-10	5-2	5-6	5-10	6-2	6-6	6-10	7-2	7-5	7-8

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75	0-8	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-1
100	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-11
125	1-11	2-1	2-3	2-4	2-6	2-7	2-9	2-10	2-11	3-1
150	2-10	3-0	3-2	3-5	3-7	3-9	3-11	4-1	4-3	4-5
175	3-10	4-1	4-4	4-7	4-10	5-1	5-4	5-7	5-9	6-0
200	5-0	5-4	5-8	6-0	6-4	6-8	6-11	7-3	7-7	7-10

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	2-0	2-0	2-0	2-0	2-0	2-1	2-1	2-1	2-1	2-1
125	3-1	3-1	3-1	3-2	3-2	3-2	3-3	3-3	3-3	3-4
150	4-5	4-5	4-6	4-6	4-7	4-7	4-8	4-8	4-9	4-9
175	6-0	6-1	6-1	6-2	6-3	6-3	6-4	6-5	6-5	6-6
200	7-10	7-11	8-0	8-1	8-2	8-3	8-3	8-4	8-5	8-6
225	9-11	10-0	10-2	10-3	10-4	10-5	10-6	10-7	10-8	10-9
250	12-3	12-5	12-6	12-7	12-9	12-10	13-0	13-1	13-2	13-3

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	2-0	2-0	2-0	2-0	2-0	2-1	2-1	2-1	2-1	2-2
125	3-1	3-1	3-2	3-2	3-2	3-3	3-3	3-3	3-4	3-4
150	4-5	4-6	4-6	4-7	4-7	4-8	4-8	4-9	4-9	4-10
175	6-0	6-1	6-2	6-2	6-3	6-4	6-4	6-5	6-6	6-6
200	7-11	8-0	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-6
225	10-0	10-1	10-2	10-3	10-4	10-5	10-6	10-8	10-9	10-10
250	12-4	12-5	12-7	12-8	12-10	12-11	13-0	13-2	13-3	13-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>180 OF 215</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH821.180	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	4-9	4-9	4-9	4-9	4-10	4-10	4-10	4-10	4-10	4-11
175	6-5	6-6	6-6	6-6	6-6	6-7	6-7	6-7	6-8	6-8
200	8-5	8-5	8-6	8-6	8-7	8-7	8-7	8-8	8-8	8-8
225	10-8	10-8	10-9	10-9	10-10	10-10	10-11	10-11	11-0	11-0
250	13-2	13-3	13-3	13-4	13-4	13-5	13-6	13-6	13-7	13-7
275	15-11	16-0	16-1	16-2	16-2	16-3	16-4	16-4	16-5	16-6
300	19-0	19-1	19-2	19-3	19-3	19-4	19-5	19-6	19-7	19-8
325	22-4	22-5	22-6	22-7	22-8	22-9	22-10	22-11	23-0	23-1
350	25-11	26-0	26-1	26-2	26-4	26-5	26-6	26-7	26-8	26-9
375	29-9	29-11	30-0	30-1	30-3	30-4	30-5	30-7	30-8	30-9

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	4-9	4-9	4-9	4-10	4-10	4-10	4-10	4-10	4-11	4-11
175	6-5	6-6	6-6	6-6	6-7	6-7	6-7	6-7	6-8	6-8
200	8-5	8-6	8-6	8-6	8-7	8-7	8-7	8-8	8-8	8-9
225	10-8	10-9	10-9	10-10	10-10	10-11	10-11	11-0	11-0	11-0
250	13-2	13-3	13-4	13-4	13-5	13-5	13-6	13-6	13-7	13-8
275	16-0	16-1	16-1	16-2	16-3	16-3	16-4	16-5	16-5	16-6
300	19-1	19-1	19-2	19-3	19-4	19-5	19-6	19-6	19-7	19-8
325	22-4	22-5	22-6	22-7	22-8	22-9	22-10	22-11	23-0	23-1
350	26-0	26-1	26-2	26-3	26-4	26-5	26-7	26-8	26-9	26-10
375	29-10	29-11	30-1	30-2	30-3	30-5	30-6	30-7	30-9	30-10

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C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 181 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH821.181
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS										

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.607	6.54	2000	6.54	2000*
20	0	0	0	0.481	5.05	478	4.97	485
30	0	0	0	0.481	5.15	468	5.08	475
40	0	0	0	0.481	5.26	458	5.19	465
50	0	0	0	0.481	5.36	450	5.29	456
60	0	0	0	0.481	5.47	441	5.4	447
70	0	0	0	0.481	5.57	433	5.5	438
80	0	0	0	0.481	5.67	426	5.6	431
90	0	0	0	0.481	5.77	419	5.7	423
100	0	0	0	0.481	5.86	412	5.8	416
110	0	0	0	0.481	5.96	405	5.9	409
120	0	0	0	0.481	6.05	399	5.99	403
130	0	0	0	0.481	6.14	393	6.08	397
167	0	0	0	0.481	6.45	375	6.38	378
212	0	0	0	0.481	6.8	355	6.74	359
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>184 OF 215</h2> </div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH821.184	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS									

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.607	14.81	2000	14.81	2000*
20	0	0	0	0.481	13.36	408	13.29	410
30	0	0	0	0.481	13.46	405	13.39	407
40	0	0	0	0.481	13.56	402	13.49	405
50	0	0	0	0.481	13.65	400	13.58	402
60	0	0	0	0.481	13.75	397	13.68	399
70	0	0	0	0.481	13.84	394	13.78	396
80	0	0	0	0.481	13.94	392	13.88	393
90	0	0	0	0.481	14.03	389	13.97	391
100	0	0	0	0.481	14.13	386	14.07	388
110	0	0	0	0.481	14.22	384	14.16	385
120	0	0	0	0.481	14.31	382	14.25	383
130	0	0	0	0.481	14.4	379	14.33	381
167	0	0	0	0.481	14.71	371	14.64	373
212	0	0	0	0.481	15.07	363	15	364

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.607	26.53	2000	26.53	2000*
20	0	0	0	0.481	25.1	389	25.03	390
30	0	0	0	0.481	25.2	388	25.13	389
40	0	0	0	0.481	25.29	386	25.22	388
50	0	0	0	0.481	25.38	385	25.32	386
60	0	0	0	0.481	25.48	384	25.41	385
70	0	0	0	0.481	25.57	382	25.51	383
80	0	0	0	0.481	25.66	381	25.6	382
90	0	0	0	0.481	25.76	380	25.7	381
100	0	0	0	0.481	25.85	378	25.79	379
110	0	0	0	0.481	25.94	377	25.89	378
120	0	0	0	0.481	26.03	376	25.97	377
130	0	0	0	0.481	26.12	375	26.05	376
167	0	0	0	0.481	26.43	370	26.36	371
212	0	0	0	0.481	26.79	365	26.73	366

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 185 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH821.185
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS										

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	2.607	41.88	2000	41.88	2000*
20	0	0	0	0.481	40.46	381	40.39	382
30	0	0	0	0.481	40.56	380	40.48	381
40	0	0	0	0.481	40.65	380	40.58	380
50	0	0	0	0.481	40.74	379	40.67	379
60	0	0	0	0.481	40.83	378	40.77	379
70	0	0	0	0.481	40.92	377	40.86	378
80	0	0	0	0.481	41.02	376	40.96	377
90	0	0	0	0.481	41.11	376	41.05	376
100	0	0	0	0.481	41.2	375	41.14	375
110	0	0	0	0.481	41.29	374	41.23	374
120	0	0	0	0.481	41.38	373	41.32	374
130	0	0	0	0.481	41.47	372	41.4	373
167	0	0	0	0.481	41.78	370	41.71	370
212	0	0	0	0.481	42.15	367	42.08	367

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>186 OF 215</p> </div>	Indicates Latest Revision	Completely Revised	<div style="border: 1px solid black; padding: 2px; text-align: center;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH821.186</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING</p> <p>1/0 RTS TRIPLEX TENSION 2000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7
100	0-5	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-11	1-0
125	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-6	1-7
150	1-0	1-1	1-2	1-4	1-5	1-7	1-9	1-11	2-2	2-4
175	1-4	1-6	1-8	1-9	2-0	2-2	2-5	2-8	2-11	3-2
200	1-9	1-11	2-2	2-4	2-7	2-10	3-2	3-5	3-10	4-2

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7
100	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1
125	0-9	0-9	0-10	0-11	1-1	1-2	1-3	1-5	1-7	1-8
150	1-0	1-2	1-3	1-4	1-6	1-8	1-10	2-0	2-3	2-5
175	1-5	1-6	1-8	1-10	2-1	2-3	2-6	2-9	3-0	3-4
200	1-10	2-0	2-3	2-5	2-8	3-0	3-4	3-8	4-0	4-4

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div>SHEET</div> <div>187 OF 215</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH821.187
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-3	1-3	1-4	1-4	1-4	1-4	1-5	1-5	1-5	1-6
125	1-11	2-0	2-0	2-1	2-1	2-2	2-2	2-3	2-3	2-4
150	2-10	2-10	2-11	3-0	3-0	3-1	3-2	3-2	3-3	3-4
175	3-10	3-11	4-0	4-1	4-2	4-3	4-3	4-4	4-5	4-6
200	5-0	5-1	5-2	5-4	5-5	5-6	5-7	5-8	5-10	5-11
225	6-3	6-5	6-7	6-8	6-10	7-0	7-1	7-3	7-4	7-6
250	7-9	7-11	8-1	8-3	8-5	8-7	8-9	8-11	9-1	9-3

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-3	1-3	1-4	1-4	1-4	1-5	1-5	1-5	1-6	1-6
125	2-0	2-0	2-1	2-1	2-2	2-2	2-3	2-3	2-3	2-4
150	2-10	2-11	2-11	3-0	3-1	3-2	3-2	3-3	3-4	3-4
175	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7
200	5-1	5-2	5-3	5-4	5-6	5-7	5-8	5-9	5-10	5-11
225	6-5	6-6	6-8	6-9	6-11	7-1	7-2	7-4	7-5	7-6
250	7-11	8-1	8-3	8-5	8-7	8-8	8-10	9-0	9-2	9-4

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 188 OF 215		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH821.188	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	3-4	3-4	3-4	3-5	3-5	3-5	3-6	3-6	3-6	3-6
175	4-6	4-7	4-7	4-7	4-8	4-8	4-9	4-9	4-9	4-10
200	5-11	5-11	6-0	6-0	6-1	6-1	6-2	6-2	6-3	6-3
225	7-6	7-6	7-7	7-8	7-8	7-9	7-10	7-10	7-11	7-11
250	9-3	9-3	9-4	9-5	9-6	9-7	9-8	9-8	9-9	9-10
275	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11
300	13-3	13-5	13-6	13-7	13-8	13-9	13-11	14-0	14-1	14-2
325	15-7	15-9	15-10	15-11	16-1	16-2	16-4	16-5	16-6	16-8
350	18-1	18-3	18-4	18-6	18-8	18-9	18-11	19-0	19-2	19-4
375	20-9	20-11	21-1	21-3	21-5	21-7	21-9	21-10	22-0	22-2

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	3-4	3-4	3-5	3-5	3-5	3-5	3-6	3-6	3-6	3-7
175	4-6	4-7	4-7	4-8	4-8	4-8	4-9	4-9	4-10	4-10
200	5-11	6-0	6-0	6-1	6-1	6-2	6-2	6-3	6-3	6-4
225	7-6	7-7	7-7	7-8	7-9	7-9	7-10	7-11	7-11	8-0
250	9-3	9-4	9-5	9-6	9-6	9-7	9-8	9-9	9-10	9-10
275	11-3	11-4	11-5	11-6	11-7	11-8	11-8	11-9	11-10	11-11
300	13-4	13-6	13-7	13-8	13-9	13-10	13-11	14-0	14-2	14-3
325	15-8	15-10	15-11	16-0	16-2	16-3	16-4	16-6	16-7	16-8
350	18-2	18-4	18-6	18-7	18-9	18-10	19-0	19-1	19-3	19-4
375	20-11	21-1	21-3	21-4	21-6	21-8	21-10	22-0	22-1	22-3

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> SHEET 189 OF 215 </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH821.189
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	6-3	6-3	6-3	6-4	6-4	6-4	6-4	6-5	6-5	6-5
225	7-11	7-11	7-11	8-0	8-0	8-0	8-1	8-1	8-2	8-2
250	9-9	9-9	9-10	9-10	9-11	9-11	10-0	10-0	10-0	10-1
275	11-10	11-10	11-11	11-11	12-0	12-0	12-1	12-1	12-2	12-2
300	14-1	14-1	14-2	14-2	14-3	14-4	14-4	14-5	14-6	14-6
325	16-6	16-7	16-7	16-8	16-9	16-10	16-10	16-11	17-0	17-1
350	19-2	19-3	19-3	19-4	19-5	19-6	19-7	19-8	19-9	19-10
375	22-0	22-1	22-2	22-3	22-4	22-5	22-6	22-7	22-8	22-9
400	25-0	25-2	25-3	25-4	25-5	25-6	25-7	25-8	25-10	25-11
425	28-3	28-5	28-6	28-7	28-8	28-10	28-11	29-0	29-2	29-3
450	31-9	31-10	32-0	32-1	32-2	32-4	32-5	32-7	32-8	32-10
475	35-4	35-6	35-8	35-9	35-11	36-1	36-2	36-4	36-5	36-7
500	39-3	39-4	39-6	39-8	39-10	40-0	40-2	40-3	40-5	40-7

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	6-3	6-3	6-4	6-4	6-4	6-4	6-5	6-5	6-5	6-5
225	7-11	7-11	8-0	8-0	8-0	8-1	8-1	8-1	8-2	8-2
250	9-9	9-10	9-10	9-11	9-11	9-11	10-0	10-0	10-1	10-1
275	11-10	11-11	11-11	12-0	12-0	12-1	12-1	12-2	12-2	12-3
300	14-1	14-2	14-2	14-3	14-4	14-4	14-5	14-5	14-6	14-7
325	16-7	16-7	16-8	16-9	16-9	16-10	16-11	17-0	17-0	17-1
350	19-2	19-3	19-4	19-5	19-6	19-7	19-7	19-8	19-9	19-10
375	22-1	22-2	22-3	22-4	22-5	22-6	22-6	22-7	22-8	22-9
400	25-1	25-2	25-3	25-5	25-6	25-7	25-8	25-9	25-10	25-11
425	28-4	28-6	28-7	28-8	28-9	28-11	29-0	29-1	29-2	29-4
450	31-10	31-11	32-1	32-2	32-3	32-5	32-6	32-8	32-9	32-11
475	35-6	35-7	35-9	35-10	36-0	36-2	36-3	36-5	36-6	36-8
500	39-4	39-6	39-8	39-9	39-11	40-1	40-3	40-4	40-6	40-8

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C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 190 OF 215			Indicates Latest Revision			Completely Revised X		New Page		Information Removed		OH821.190
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS										

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.607	13.26	1000	13.26	1000*
0	0	0	0	0.481	12.89	190	12.87	190
30	0	0	0	0.481	13.03	188	13.01	188
40	0	0	0	0.481	13.07	187	13.05	187
50	0	0	0	0.481	13.12	187	13.1	187
60	0	0	0	0.481	13.16	186	13.15	186
70	0	0	0	0.481	13.21	185	13.19	185
80	0	0	0	0.481	13.25	185	13.24	185
90	0	0	0	0.481	13.3	184	13.28	184
100	0	0	0	0.481	13.34	183	13.32	184
110	0	0	0	0.481	13.39	183	13.36	183
120	0	0	0	0.481	13.43	182	13.41	183
130	0	0	0	0.481	13.47	182	13.45	182
167	0	0	0	0.481	13.62	180	13.6	180
212	0	0	0	0.481	13.8	178	13.77	178

* Design Condition

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 192 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.192
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>193 OF 215</h2> </div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH821.193	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.607	92.8	1000	92.8	1000*
0	0	0	0	0.481	92.43	185	92.41	185
30	0	0	0	0.481	92.56	185	92.55	185
40	0	0	0	0.481	92.61	185	92.59	185
50	0	0	0	0.481	92.65	185	92.64	185
60	0	0	0	0.481	92.7	185	92.68	185
70	0	0	0	0.481	92.74	185	92.73	185
80	0	0	0	0.481	92.79	185	92.77	185
90	0	0	0	0.481	92.83	184	92.82	184
100	0	0	0	0.481	92.88	184	92.86	184
110	0	0	0	0.481	92.92	184	92.9	184
120	0	0	0	0.481	92.96	184	92.94	184
130	0	0	0	0.481	93	184	92.98	184
167	0	0	0	0.481	93.15	184	93.13	184
212	0	0	0	0.481	93.33	184	93.31	184
* Design Condition								

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>194 OF 215</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH821.194</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING</p> <p>1/0 RTS TRIPLEX TENSION 1000 LBS</p> </div>				

Completely Revised

	X
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Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 1000 LBS

OH821.194

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	1-8	1-8	1-9	1-9	1-9	1-10	1-10	1-10	1-10	1-11
100	3-0	3-0	3-1	3-1	3-2	3-2	3-3	3-3	3-4	3-4
125	4-8	4-9	4-9	4-10	4-11	5-0	5-1	5-2	5-3	5-3
150	6-8	6-9	6-11	7-0	7-1	7-3	7-4	7-5	7-6	7-7
175	9-1	9-3	9-5	9-7	9-8	9-10	10-0	10-1	10-3	10-4
200	11-11	12-1	12-3	12-6	12-8	12-10	13-1	13-3	13-5	13-7

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	1-8	1-8	1-9	1-9	1-9	1-10	1-10	1-10	1-11	1-11
100	3-0	3-0	3-1	3-2	3-2	3-3	3-3	3-4	3-4	3-5
125	4-8	4-9	4-10	4-11	5-0	5-0	5-1	5-2	5-3	5-4
150	6-9	6-10	6-11	7-1	7-2	7-3	7-4	7-5	7-7	7-8
175	9-2	9-4	9-5	9-7	9-9	9-11	10-0	10-2	10-3	10-5
200	12-0	12-2	12-4	12-7	12-9	12-11	13-1	13-3	13-6	13-8

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 195 OF 215		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH821.195
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	3-3	3-3	3-3	3-3	3-3	3-3	3-4	3-4	3-4	3-4
125	5-1	5-1	5-1	5-1	5-1	5-2	5-2	5-2	5-2	5-2
150	7-3	7-4	7-4	7-4	7-5	7-5	7-5	7-5	7-6	7-6
175	9-11	9-11	10-0	10-0	10-1	10-1	10-1	10-2	10-2	10-3
200	13-0	13-0	13-1	13-1	13-2	13-2	13-3	13-3	13-4	13-4
225	16-5	16-6	16-7	16-7	16-8	16-9	16-9	16-10	16-11	16-11
250	20-4	20-5	20-6	20-6	20-7	20-8	20-9	20-10	20-11	20-11

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	3-3	3-3	3-3	3-3	3-3	3-3	3-4	3-4	3-4	3-4
125	5-1	5-1	5-1	5-1	5-1	5-2	5-2	5-2	5-2	5-3
150	7-3	7-4	7-4	7-4	7-5	7-5	7-5	7-6	7-6	7-6
175	9-11	10-0	10-0	10-0	10-1	10-1	10-2	10-2	10-2	10-3
200	13-0	13-0	13-1	13-1	13-2	13-2	13-3	13-4	13-4	13-5
225	16-5	16-6	16-7	16-8	16-8	16-9	16-10	16-10	16-11	17-0
250	20-4	20-5	20-6	20-7	20-8	20-8	20-9	20-10	20-11	21-0

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C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 196 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH821.196
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	7-6	7-6	7-6	7-6	7-6	7-7	7-7	7-7	7-7	7-7
175	10-2	10-3	10-3	10-3	10-3	10-3	10-4	10-4	10-4	10-4
200	13-4	13-4	13-5	13-5	13-5	13-5	13-6	13-6	13-6	13-6
225	16-11	16-11	17-0	17-0	17-0	17-1	17-1	17-1	17-1	17-2
250	20-11	20-11	21-0	21-0	21-1	21-1	21-1	21-2	21-2	21-2
275	25-4	25-5	25-5	25-6	25-6	25-7	25-7	25-8	25-8	25-8
300	30-3	30-3	30-4	30-5	30-5	30-6	30-6	30-7	30-7	30-8
325	35-7	35-8	35-8	35-9	35-10	35-10	35-11	35-11	36-0	36-1
350	41-4	41-5	41-6	41-7	41-7	41-8	41-9	41-10	41-10	41-11
375	47-7	47-8	47-9	47-10	47-11	48-0	48-1	48-1	48-2	48-3

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	7-6	7-6	7-6	7-6	7-6	7-7	7-7	7-7	7-7	7-7
175	10-3	10-3	10-3	10-3	10-3	10-3	10-4	10-4	10-4	10-4
200	13-4	13-4	13-5	13-5	13-5	13-5	13-6	13-6	13-6	13-6
225	16-11	16-11	17-0	17-0	17-0	17-1	17-1	17-1	17-2	17-2
250	20-11	21-0	21-0	21-0	21-1	21-1	21-1	21-2	21-2	21-3
275	25-5	25-5	25-5	25-6	25-6	25-7	25-7	25-8	25-8	25-9
300	30-3	30-4	30-4	30-5	30-5	30-6	30-6	30-7	30-8	30-8
325	35-7	35-8	35-8	35-9	35-10	35-10	35-11	36-0	36-0	36-1
350	41-5	41-5	41-6	41-7	41-8	41-8	41-9	41-10	41-11	41-11
375	47-8	47-9	47-9	47-10	47-11	48-0	48-1	48-2	48-3	48-3

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C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 197 OF 215		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed			OH821.197
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	13-9	13-9	13-9	13-9	13-9	13-10	13-10	13-10	13-10	13-10
225	17-5	17-5	17-5	17-6	17-6	17-6	17-6	17-6	17-6	17-6
250	21-7	21-7	21-7	21-7	21-7	21-8	21-8	21-8	21-8	21-8
275	26-1	26-2	26-2	26-2	26-2	26-3	26-3	26-3	26-3	26-4
300	31-2	31-2	31-2	31-3	31-3	31-3	31-4	31-4	31-4	31-4
325	36-8	36-8	36-9	36-9	36-9	36-10	36-10	36-10	36-11	36-11
350	42-7	42-8	42-8	42-9	42-9	42-10	42-10	42-10	42-11	42-11
375	49-1	49-1	49-2	49-2	49-3	49-3	49-4	49-4	49-5	49-5
400	56-0	56-0	56-1	56-2	56-2	56-3	56-3	56-4	56-4	56-5
425	63-5	63-6	63-6	63-7	63-7	63-8	63-9	63-9	63-10	63-10
450	71-4	71-5	71-5	71-6	71-7	71-8	71-8	71-9	71-10	71-10
475	79-9	79-10	79-11	80-0	80-0	80-1	80-2	80-3	80-3	80-4
500	88-9	88-9	88-10	88-11	89-0	89-1	89-2	89-3	89-4	89-4

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	13-9	13-9	13-9	13-9	13-9	13-10	13-10	13-10	13-10	13-10
225	17-5	17-5	17-5	17-6	17-6	17-6	17-6	17-6	17-6	17-7
250	21-7	21-7	21-7	21-7	21-7	21-8	21-8	21-8	21-8	21-8
275	26-2	26-2	26-2	26-2	26-3	26-3	26-3	26-3	26-4	26-4
300	31-2	31-2	31-3	31-3	31-3	31-3	31-4	31-4	31-4	31-5
325	36-8	36-8	36-9	36-9	36-9	36-10	36-10	36-10	36-11	36-11
350	42-8	42-8	42-8	42-9	42-9	42-10	42-10	42-10	42-11	42-11
375	49-1	49-1	49-2	49-2	49-3	49-3	49-4	49-4	49-5	49-5
400	56-0	56-1	56-1	56-2	56-2	56-3	56-3	56-4	56-4	56-5
425	63-5	63-6	63-6	63-7	63-8	63-8	63-9	63-9	63-10	63-11
450	71-4	71-5	71-6	71-6	71-7	71-8	71-8	71-9	71-10	71-11
475	79-9	79-10	79-11	80-0	80-1	80-1	80-2	80-3	80-4	80-4
500	88-9	88-10	88-11	89-0	89-0	89-1	89-2	89-3	89-4	89-5

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 198 OF 215		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH821.198
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250	22-5	22-5	22-5	22-5	22-5	22-6	22-6	22-6	22-6	22-6
275	27-2	27-2	27-2	27-3	27-3	27-3	27-3	27-3	27-3	27-3
300	32-5	32-5	32-5	32-6	32-6	32-6	32-6	32-6	32-6	32-7
325	38-2	38-2	38-2	38-2	38-3	38-3	38-3	38-3	38-3	38-4
350	44-4	44-5	44-5	44-5	44-5	44-6	44-6	44-6	44-6	44-7
375	51-1	51-1	51-2	51-2	51-2	51-3	51-3	51-3	51-3	51-4
400	58-4	58-4	58-4	58-5	58-5	58-5	58-6	58-6	58-6	58-7
425	66-1	66-1	66-2	66-2	66-2	66-3	66-3	66-3	66-4	66-4
450	74-4	74-4	74-5	74-5	74-6	74-6	74-7	74-7	74-7	74-8
475	83-2	83-2	83-3	83-3	83-4	83-4	83-5	83-5	83-6	83-6
500	92-6	92-7	92-7	92-8	92-8	92-9	92-9	92-10	92-10	92-11
525	102-5	102-6	102-6	102-7	102-7	102-8	102-9	102-9	102-10	102-10
550	112-11	113-0	113-0	113-1	113-2	113-2	113-3	113-4	113-4	113-5
575	124-0	124-1	124-1	124-2	124-3	124-4	124-4	124-5	124-6	124-6
600	135-8	135-9	135-10	135-10	135-11	136-0	136-1	136-2	136-2	136-3
625	147-11	148-0	148-1	148-2	148-3	148-4	148-5	148-6	148-7	148-7

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 199 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.199
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN 111MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1000 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.607	35.88	1500	35.88	1500*
0	0	0	0	0.481	35.1	283	35.06	283
30	0	0	0	0.481	35.31	281	35.27	281
40	0	0	0	0.481	35.38	280	35.34	281
50	0	0	0	0.481	35.45	280	35.41	280
60	0	0	0	0.481	35.51	279	35.48	280
70	0	0	0	0.481	35.58	279	35.55	279
80	0	0	0	0.481	35.65	278	35.62	279
90	0	0	0	0.481	35.72	278	35.69	278
100	0	0	0	0.481	35.79	277	35.75	278
110	0	0	0	0.481	35.85	277	35.82	277
120	0	0	0	0.481	35.92	276	35.88	277
130	0	0	0	0.481	35.98	276	35.94	276
167	0	0	0	0.481	36.21	274	36.17	275
212	0	0	0	0.481	36.48	272	36.44	273

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 201 OF 215		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH821.201
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.607	57.16	1500	57.16	1500*
0	0	0	0	0.481	56.39	280	56.34	280
30	0	0	0	0.481	56.59	279	56.55	279
40	0	0	0	0.481	56.66	279	56.62	279
50	0	0	0	0.481	56.73	279	56.69	279
60	0	0	0	0.481	56.8	278	56.76	279
70	0	0	0	0.481	56.86	278	56.83	278
80	0	0	0	0.481	56.93	278	56.9	278
90	0	0	0	0.481	57	277	56.97	278
100	0	0	0	0.481	57.07	277	57.03	277
110	0	0	0	0.481	57.13	277	57.1	277
120	0	0	0	0.481	57.2	277	57.16	277
130	0	0	0	0.481	57.26	276	57.22	277
167	0	0	0	0.481	57.49	275	57.45	276
212	0	0	0	0.481	57.77	274	57.72	274

* Design Condition

* Design Condition

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 202 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.202
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2
100	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-1
125	2-3	2-5	2-6	2-8	2-9	2-11	3-0	3-1	3-3	3-4
150	3-3	3-6	3-8	3-10	4-0	4-2	4-4	4-6	4-8	4-9
175	4-6	4-9	5-0	5-2	5-5	5-8	5-11	6-1	6-4	6-6
200	5-10	6-2	6-6	6-10	7-1	7-5	7-8	8-0	8-3	8-6

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3
100	1-6	1-7	1-8	1-9	1-10	1-11	1-11	2-0	2-1	2-2
125	2-4	2-6	2-7	2-9	2-10	2-11	3-1	3-2	3-3	3-4
150	3-5	3-7	3-9	3-11	4-1	4-3	4-5	4-7	4-8	4-10
175	4-7	4-10	5-1	5-4	5-7	5-9	6-0	6-2	6-5	6-7
200	6-0	6-4	6-8	6-11	7-3	7-7	7-10	8-1	8-4	8-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>203 OF 215</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH821.203</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING</p> <p>1/0 RTS TRIPLEX TENSION 1500 LBS</p> </div>					

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	2-0	2-0	2-1	2-1	2-1	2-1	2-1	2-2	2-2	2-2
125	3-2	3-2	3-2	3-3	3-3	3-3	3-4	3-4	3-4	3-5
150	4-6	4-7	4-7	4-8	4-8	4-9	4-9	4-10	4-10	4-11
175	6-2	6-3	6-3	6-4	6-5	6-5	6-6	6-7	6-7	6-8
200	8-1	8-2	8-3	8-3	8-4	8-5	8-6	8-7	8-8	8-8
225	10-3	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-11	11-0
250	12-7	12-9	12-10	12-11	13-1	13-2	13-4	13-5	13-6	13-7

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	2-0	2-0	2-1	2-1	2-1	2-1	2-2	2-2	2-2	2-2
125	3-2	3-2	3-3	3-3	3-3	3-4	3-4	3-4	3-5	3-5
150	4-7	4-7	4-8	4-8	4-9	4-9	4-10	4-10	4-10	4-11
175	6-2	6-3	6-4	6-4	6-5	6-6	6-6	6-7	6-8	6-8
200	8-1	8-2	8-3	8-4	8-5	8-6	8-6	8-7	8-8	8-9
225	10-3	10-4	10-5	10-6	10-8	10-9	10-10	10-11	11-0	11-1
250	12-8	12-10	12-11	13-0	13-2	13-3	13-4	13-5	13-7	13-8

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 204 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH821.204
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	8-9	8-9	8-9	8-9	8-10	8-10	8-10	8-10	8-10	8-11
225	11-1	11-1	11-1	11-2	11-2	11-2	11-2	11-3	11-3	11-3
250	13-8	13-8	13-9	13-9	13-9	13-10	13-10	13-10	13-11	13-11
275	16-7	16-7	16-7	16-8	16-8	16-9	16-9	16-9	16-10	16-10
300	19-9	19-9	19-9	19-10	19-10	19-11	19-11	20-0	20-0	20-1
325	23-2	23-2	23-3	23-4	23-4	23-5	23-5	23-6	23-6	23-7
350	26-11	26-11	27-0	27-1	27-1	27-2	27-2	27-3	27-4	27-4
375	30-11	31-0	31-0	31-1	31-2	31-2	31-3	31-4	31-5	31-5
400	35-2	35-3	35-4	35-5	35-6	35-7	35-7	35-8	35-9	35-10
425	39-9	39-10	39-11	40-0	40-1	40-2	40-3	40-4	40-5	40-6
450	44-8	44-9	44-10	44-11	45-0	45-1	45-2	45-4	45-5	45-5
475	49-10	49-11	50-1	50-2	50-3	50-4	50-5	50-6	50-8	50-9
500	55-4	55-5	55-6	55-8	55-9	55-10	56-0	56-1	56-2	56-4

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	8-9	8-9	8-9	8-10	8-10	8-10	8-10	8-10	8-11	8-11
225	11-1	11-1	11-1	11-2	11-2	11-2	11-2	11-3	11-3	11-3
250	13-8	13-8	13-9	13-9	13-9	13-10	13-10	13-10	13-11	13-11
275	16-7	16-7	16-8	16-8	16-8	16-9	16-9	16-9	16-10	16-10
300	19-9	19-9	19-10	19-10	19-11	19-11	20-0	20-0	20-0	20-1
325	23-2	23-3	23-3	23-4	23-4	23-5	23-5	23-6	23-6	23-7
350	26-11	27-0	27-0	27-1	27-2	27-2	27-3	27-3	27-4	27-5
375	30-11	31-0	31-1	31-1	31-2	31-3	31-4	31-4	31-5	31-6
400	35-3	35-4	35-5	35-5	35-6	35-7	35-8	35-9	35-9	35-10
425	39-10	39-11	40-0	40-1	40-2	40-3	40-4	40-5	40-5	40-6
450	44-9	44-10	44-11	45-0	45-1	45-2	45-3	45-4	45-5	45-6
475	49-11	50-0	50-1	50-2	50-4	50-5	50-6	50-7	50-8	50-9
500	55-5	55-6	55-7	55-8	55-10	55-11	56-0	56-2	56-3	56-4

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>206 OF 215</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH821.206	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 1500 LBS									

Span = 100 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.607	1.63	2000	1.63	2000*
0	0	0	0	0.481	0.5	1196	0.49	1240
30	0	0	0	0.481	0.67	893	0.64	942
40	0	0	0	0.481	0.74	807	0.7	854
50	0	0	0	0.481	0.82	731	0.78	774
60	0	0	0	0.481	0.91	664	0.86	703
70	0	0	0	0.481	0.99	606	0.94	640
80	0	0	0	0.481	1.08	556	1.03	586
90	0	0	0	0.481	1.17	514	1.12	539
100	0	0	0	0.481	1.26	478	1.21	499
110	0	0	0	0.481	1.35	447	1.29	465
120	0	0	0	0.481	1.43	421	1.38	437
130	0	0	0	0.481	1.51	398	1.45	414
167	0	0	0	0.481	1.77	340	1.71	352
212	0	0	0	0.481	2.06	293	2	301

* Design Condition

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	2.607	6.54	2000	6.54	2000*
0	0	0	0	0.481	5.15	468	5.07	476
30	0	0	0	0.481	5.47	441	5.39	448
40	0	0	0	0.481	5.57	433	5.49	439
50	0	0	0	0.481	5.67	426	5.59	431
60	0	0	0	0.481	5.77	419	5.69	424
70	0	0	0	0.481	5.86	412	5.79	417
80	0	0	0	0.481	5.96	405	5.89	410
90	0	0	0	0.481	6.05	399	5.99	403
100	0	0	0	0.481	6.14	393	6.08	397
110	0	0	0	0.481	6.24	387	6.18	391
120	0	0	0	0.481	6.33	382	6.26	386
130	0	0	0	0.481	6.41	377	6.34	381
167	0	0	0	0.481	6.7	360	6.64	364
212	0	0	0	0.481	7.05	343	6.98	346

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 208 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.208
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS									

Span = 500 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	32	0	2.607	41.88	2000	41.88	2000*
0	0	0	0	0.481	40.56	380	40.48	381
30	0	0	0	0.481	40.83	378	40.76	379
40	0	0	0	0.481	40.92	377	40.85	378
50	0	0	0	0.481	41.02	376	40.95	377
60	0	0	0	0.481	41.11	376	41.04	376
70	0	0	0	0.481	41.2	375	41.13	375
80	0	0	0	0.481	41.29	374	41.23	375
90	0	0	0	0.481	41.38	373	41.32	374
100	0	0	0	0.481	41.47	372	41.41	373
110	0	0	0	0.481	41.56	372	41.5	372
120	0	0	0	0.481	41.65	371	41.59	371
130	0	0	0	0.481	41.74	370	41.67	371
167	0	0	0	0.481	42.04	368	41.97	368
212	0	0	0	0.481	42.41	365	42.34	365

* Design Condition

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SHEET
210 OF 215

Indicates Latest Revision

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New Page

Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
1/0 RTS TRIPLEX TENSION 2000 LBS

OH821.210

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9
100	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-4
125	0-11	1-0	1-1	1-3	1-4	1-6	1-7	1-9	1-11	2-0
150	1-4	1-5	1-7	1-9	1-11	2-1	2-4	2-6	2-9	2-11
175	1-9	1-11	2-2	2-5	2-7	2-11	3-2	3-5	3-8	4-0
200	2-4	2-7	2-10	3-1	3-5	3-9	4-1	4-6	4-10	5-2

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9
100	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
125	0-11	1-1	1-2	1-3	1-5	1-7	1-8	1-10	2-0	2-1
150	1-4	1-6	1-8	1-10	2-0	2-3	2-5	2-8	2-10	3-0
175	1-10	2-1	2-3	2-6	2-9	3-0	3-4	3-7	3-10	4-1
200	2-5	2-8	3-0	3-4	3-8	4-0	4-4	4-8	5-0	5-5

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 211 OF 215		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH821.211
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-4	1-4	1-4	1-5	1-5	1-5	1-6	1-6	1-6	1-7
125	2-1	2-1	2-2	2-2	2-3	2-3	2-4	2-4	2-4	2-5
150	3-0	3-0	3-1	3-2	3-2	3-3	3-4	3-4	3-5	3-6
175	4-1	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9
200	5-3	5-5	5-6	5-7	5-8	5-10	5-11	6-0	6-1	6-2
225	6-8	6-10	6-11	7-1	7-3	7-4	7-6	7-7	7-8	7-10
250	8-3	8-5	8-7	8-9	8-11	9-1	9-3	9-4	9-6	9-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100	1-4	1-4	1-5	1-5	1-5	1-6	1-6	1-6	1-6	1-7
125	2-1	2-2	2-2	2-3	2-3	2-3	2-4	2-4	2-5	2-5
150	3-0	3-1	3-2	3-2	3-3	3-4	3-4	3-5	3-5	3-6
175	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-8	4-9
200	5-4	5-6	5-7	5-8	5-9	5-10	5-11	6-1	6-2	6-3
225	6-9	6-11	7-1	7-2	7-4	7-5	7-6	7-8	7-9	7-11
250	8-5	8-7	8-8	8-10	9-0	9-2	9-4	9-6	9-7	9-9

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 212 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH821.212
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	3-5	3-5	3-5	3-6	3-6	3-6	3-6	3-7	3-7	3-7
175	4-7	4-8	4-8	4-9	4-9	4-9	4-10	4-10	4-10	4-11
200	6-0	6-1	6-1	6-2	6-2	6-3	6-3	6-4	6-4	6-5
225	7-8	7-8	7-9	7-9	7-10	7-11	7-11	8-0	8-1	8-1
250	9-5	9-6	9-7	9-7	9-8	9-9	9-10	9-11	9-11	10-0
275	11-5	11-6	11-7	11-8	11-9	11-10	11-11	12-0	12-1	12-1
300	13-7	13-8	13-9	13-10	14-0	14-1	14-2	14-3	14-4	14-5
325	15-11	16-1	16-2	16-3	16-5	16-6	16-7	16-9	16-10	16-11
350	18-6	18-8	18-9	18-11	19-0	19-2	19-3	19-5	19-7	19-8
375	21-3	21-5	21-7	21-8	21-10	22-0	22-2	22-4	22-5	22-7

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150	3-5	3-5	3-5	3-6	3-6	3-6	3-7	3-7	3-7	3-7
175	4-8	4-8	4-8	4-9	4-9	4-10	4-10	4-10	4-11	4-11
200	6-1	6-1	6-2	6-2	6-3	6-3	6-4	6-4	6-5	6-5
225	7-8	7-9	7-9	7-10	7-11	7-11	8-0	8-0	8-1	8-2
250	9-6	9-6	9-7	9-8	9-9	9-10	9-10	9-11	10-0	10-1
275	11-6	11-7	11-8	11-8	11-9	11-10	11-11	12-0	12-1	12-2
300	13-8	13-9	13-10	13-11	14-0	14-2	14-3	14-4	14-5	14-6
325	16-0	16-2	16-3	16-4	16-6	16-7	16-8	16-10	16-11	17-0
350	18-7	18-9	18-10	19-0	19-1	19-3	19-4	19-6	19-7	19-9
375	21-4	21-6	21-8	21-10	22-0	22-1	22-3	22-5	22-7	22-8

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 213 OF 215		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH821.213
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	6-4	6-4	6-4	6-4	6-5	6-5	6-5	6-6	6-6	6-6
225	8-0	8-0	8-0	8-1	8-1	8-2	8-2	8-2	8-3	8-3
250	9-10	9-11	9-11	10-0	10-0	10-0	10-1	10-1	10-2	10-2
275	11-11	12-0	12-0	12-1	12-1	12-2	12-2	12-3	12-3	12-4
300	14-2	14-3	14-4	14-4	14-5	14-6	14-6	14-7	14-7	14-8
325	16-8	16-9	16-10	16-10	16-11	17-0	17-1	17-1	17-2	17-3
350	19-4	19-5	19-6	19-7	19-8	19-9	19-9	19-10	19-11	20-0
375	22-3	22-4	22-5	22-6	22-7	22-8	22-9	22-10	22-11	23-0
400	25-4	25-5	25-6	25-7	25-8	25-9	25-11	26-0	26-1	26-2
425	28-7	28-8	28-10	28-11	29-0	29-2	29-3	29-4	29-5	29-7
450	32-1	32-2	32-4	32-5	32-7	32-8	32-10	32-11	33-0	33-2
475	35-9	35-11	36-0	36-2	36-4	36-5	36-7	36-8	36-10	37-0
500	39-8	39-10	40-0	40-1	40-3	40-5	40-7	40-8	40-10	41-0

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	6-4	6-4	6-4	6-5	6-5	6-5	6-5	6-6	6-6	6-6
225	8-0	8-0	8-1	8-1	8-1	8-2	8-2	8-2	8-3	8-3
250	9-11	9-11	9-11	10-0	10-0	10-1	10-1	10-2	10-2	10-2
275	12-0	12-0	12-1	12-1	12-2	12-2	12-3	12-3	12-4	12-4
300	14-3	14-4	14-4	14-5	14-5	14-6	14-7	14-7	14-8	14-9
325	16-9	16-9	16-10	16-11	17-0	17-0	17-1	17-2	17-3	17-3
350	19-5	19-6	19-7	19-7	19-8	19-9	19-10	19-11	20-0	20-1
375	22-4	22-5	22-6	22-6	22-7	22-8	22-9	22-10	22-11	23-0
400	25-5	25-6	25-7	25-8	25-9	25-10	25-11	26-0	26-1	26-3
425	28-8	28-9	28-11	29-0	29-1	29-2	29-4	29-5	29-6	29-7
450	32-2	32-3	32-5	32-6	32-8	32-9	32-11	33-0	33-1	33-3
475	35-10	36-0	36-2	36-3	36-5	36-6	36-8	36-10	36-11	37-1
500	39-9	39-11	40-1	40-3	40-4	40-6	40-8	40-10	40-11	41-1

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 214 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH821.214
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING 1/0 RTS TRIPLEX TENSION 2000 LBS										

SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 3/0 RTS TRIPLEX CONDUCTOR. CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

G.O. 95 LIGHT LOADING CONDITION

1000 LB TENSION	822.2
1500 LB TENSION	822.10
2000 LB TENSION	822.18

G.O. 95 HEAVY LOADING CONDITION

1000 LB TENSION	822.26
1500 LB TENSION	822.34
2000 LB TENSION	822.42

SDG&E EXTRA HEAVY LOADING CONDITION

1000 LB TENSION	822.50
1500 LB TENSION	822.56
2000 LB TENSION	822.64

65 MPH LIGHT KNOWN LOCAL WIND CONDITION

1000 LB TENSION	822.72
1500 LB TENSION	822.80
2000 LB TENSION	822.88

65 MPH HEAVY KNOWN LOCAL WIND CONDITION

1000 LB TENSION	822.96
1500 LB TENSION	822.104
2000 LB TENSION	822.112

85 MPH LIGHT KNOWN LOCAL WIND CONDITION

1000 LB TENSION -----	822.120
1500 LB TENSION -----	822.128
2000 LB TENSION -----	822.136

85 MPH HEAVY KNOWN LOCAL WIND CONDITION

1000 LB TENSION -----	822.144
1500 LB TENSION -----	822.152
2000 LB TENSION -----	822.160

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

1000 LB TENSION -----	822.168
1500 LB TENSION -----	822.176
2000 LB TENSION -----	822.184

111 MPH HEAVY KNOWN LOCAL WIND CONDITION

1000 LB TENSION -----	822.192
1500 LB TENSION -----	822.200
2000 LB TENSION -----	822.208

REFERENCE:

- a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 1 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.1
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		3/0 RTS TRIPLEX TABLE OF CONTENTS									

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.001	11.33	1000	11.33	1000*
25	0	0	0	0.629	11	647	10.98	648
30	0	0	0	0.629	11.06	643	11.04	644
40	0	0	0	0.629	11.17	637	11.16	638
50	0	0	0	0.629	11.29	631	11.27	631
60	0	0	0	0.629	11.4	624	11.38	625
70	0	0	0	0.629	11.51	618	11.5	619
80	0	0	0	0.629	11.62	613	11.61	613
90	0	0	0	0.629	11.73	607	11.72	607
100	0	0	0	0.629	11.84	601	11.83	602
110	0	0	0	0.629	11.95	596	11.94	596
120	0	0	0	0.629	12.05	591	12.05	591
130	0	0	0	0.629	12.16	586	12.16	586
167	0	0	0	0.629	12.53	568	12.52	569
212	0	0	0	0.629	12.95	550	12.93	551

* Design Condition

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.001	20.22	1000	20.22	1000*
25	0	0	0	0.629	19.9	639	19.88	639
30	0	0	0	0.629	19.95	637	19.93	637
40	0	0	0	0.629	20.07	633	20.05	634
50	0	0	0	0.629	20.19	630	20.17	630
60	0	0	0	0.629	20.3	626	20.29	627
70	0	0	0	0.629	20.41	623	20.4	623
80	0	0	0	0.629	20.53	619	20.52	620
90	0	0	0	0.629	20.64	616	20.63	616
100	0	0	0	0.629	20.75	613	20.75	613
110	0	0	0	0.629	20.86	609	20.86	610
120	0	0	0	0.629	20.98	606	20.97	606
130	0	0	0	0.629	21.09	603	21.09	603
167	0	0	0	0.629	21.48	592	21.47	593
212	0	0	0	0.629	21.93	581	21.91	581

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 3 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.3
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING 3/0 RTS TRIPLEX TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.001	31.79	1000	31.79	1000*
25	0	0	0	0.629	31.46	635	31.44	635
30	0	0	0	0.629	31.51	634	31.49	634
40	0	0	0	0.629	31.63	631	31.61	632
50	0	0	0	0.629	31.75	629	31.73	629
60	0	0	0	0.629	31.86	627	31.85	627
70	0	0	0	0.629	31.98	625	31.97	625
80	0	0	0	0.629	32.09	623	32.08	623
90	0	0	0	0.629	32.21	620	32.2	621
100	0	0	0	0.629	32.32	618	32.32	618
110	0	0	0	0.629	32.44	616	32.43	616
120	0	0	0	0.629	32.55	614	32.55	614
130	0	0	0	0.629	32.66	612	32.66	612
167	0	0	0	0.629	33.07	605	33.06	605
212	0	0	0	0.629	33.53	597	33.51	597

* Design Condition

* Design Condition

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B						E					
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.4

SHEET
4 OF 215

Stringing Sag Table Using Initial Sag										Ruling Span: 100.0 Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11
100.00	1-0	1-1	1-2	1-3	1-4	1-5	1-5	1-6	1-7	1-8
125.00	1-6	1-8	1-9	1-11	2-0	2-2	2-3	2-5	2-6	2-8
150.00	2-2	2-4	2-7	2-9	2-11	3-1	3-3	3-5	3-8	3-10
175.00	3-0	3-3	3-6	3-9	4-0	4-3	4-6	4-8	4-11	5-2
200.00	3-11	4-3	4-6	4-10	5-2	5-6	5-10	6-2	6-5	6-9

Stringing Sag Table Using Final Sag										Ruling Span: 100.0 Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11
100.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8
125.00	1-6	1-8	1-9	1-11	2-0	2-2	2-3	2-5	2-6	2-8
150.00	2-3	2-5	2-7	2-9	2-11	3-1	3-4	3-6	3-8	3-10
175.00	3-0	3-3	3-6	3-9	4-0	4-3	4-6	4-9	5-0	5-2
200.00	3-11	4-3	4-7	4-11	5-3	5-7	5-10	6-2	6-6	6-9

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SHEET 5 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH822.5
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING 3/0 RTS TRIPLEX TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-2	1-3	1-3	1-3	1-4	1-4	1-4	1-4	1-5
125.00	1-10	1-10	1-11	1-11	2-0	2-0	2-1	2-1	2-2	2-2
150.00	2-7	2-8	2-9	2-10	2-10	2-11	3-0	3-0	3-1	3-2
175.00	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-1	4-2	4-3
200.00	4-8	4-9	4-10	5-0	5-1	5-2	5-3	5-5	5-6	5-7
225.00	5-10	6-0	6-2	6-3	6-5	6-7	6-8	6-10	6-11	7-1
250.00	7-3	7-5	7-7	7-9	7-11	8-1	8-3	8-5	8-7	8-9

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-2	1-3	1-3	1-3	1-4	1-4	1-4	1-4	1-5
125.00	1-10	1-10	1-11	1-11	2-0	2-0	2-1	2-1	2-2	2-2
150.00	2-7	2-8	2-9	2-10	2-10	2-11	3-0	3-0	3-1	3-2
175.00	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-2	4-3
200.00	4-8	4-9	4-10	5-0	5-1	5-2	5-4	5-5	5-6	5-7
225.00	5-11	6-0	6-2	6-4	6-5	6-7	6-8	6-10	6-11	7-1
250.00	7-3	7-5	7-7	7-9	7-11	8-1	8-3	8-5	8-7	8-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.6

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-9	2-9	2-9	2-10	2-10	2-10	2-11	2-11	2-11	3-0
175.00	3-9	3-9	3-9	3-10	3-10	3-11	3-11	4-0	4-0	4-1
200.00	4-10	4-11	4-11	5-0	5-1	5-1	5-2	5-2	5-3	5-4
225.00	6-2	6-2	6-3	6-4	6-5	6-6	6-6	6-7	6-8	6-9
250.00	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3	8-3
275.00	9-2	9-3	9-4	9-6	9-7	9-8	9-9	9-10	9-11	10-0
300.00	10-11	11-0	11-2	11-3	11-5	11-6	11-7	11-9	11-10	11-11
325.00	12-10	13-0	13-1	13-3	13-4	13-6	13-8	13-9	13-11	14-0
350.00	14-11	15-0	15-2	15-4	15-6	15-8	15-10	16-0	16-1	16-3
375.00	17-1	17-3	17-5	17-8	17-10	18-0	18-2	18-4	18-6	18-8

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-9	2-9	2-9	2-10	2-10	2-10	2-11	2-11	2-11	3-0
175.00	3-9	3-9	3-10	3-10	3-10	3-11	3-11	4-0	4-0	4-1
200.00	4-10	4-11	5-0	5-0	5-1	5-1	5-2	5-2	5-3	5-4
225.00	6-2	6-3	6-3	6-4	6-5	6-6	6-6	6-7	6-8	6-9
250.00	7-7	7-8	7-9	7-10	7-11	8-0	8-1	8-2	8-3	8-3
275.00	9-2	9-3	9-5	9-6	9-7	9-8	9-9	9-10	9-11	10-0
300.00	10-11	11-1	11-2	11-3	11-5	11-6	11-7	11-9	11-10	11-11
325.00	12-10	13-0	13-1	13-3	13-5	13-6	13-8	13-9	13-11	14-0
350.00	14-11	15-1	15-3	15-4	15-6	15-8	15-10	16-0	16-2	16-3
375.00	17-1	17-4	17-6	17-8	17-10	18-0	18-2	18-4	18-6	18-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 7 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH822.7
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING 3/0 RTS TRIPLEX TENSION 1000 LBS					

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>11 OF 215</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH822.11
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8
100.00	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2
125.00	0-11	0-11	1-0	1-1	1-2	1-4	1-5	1-6	1-8	1-9
150.00	1-3	1-4	1-6	1-7	1-9	1-11	2-0	2-3	2-5	2-7
175.00	1-9	1-10	2-0	2-2	2-4	2-7	2-9	3-0	3-3	3-6
200.00	2-3	2-5	2-7	2-10	3-1	3-4	3-8	3-11	4-3	4-7

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8
100.00	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2
125.00	0-11	0-11	1-0	1-1	1-3	1-4	1-5	1-7	1-8	1-10
150.00	1-3	1-4	1-6	1-7	1-9	1-11	2-1	2-3	2-5	2-7
175.00	1-9	1-10	2-0	2-2	2-5	2-7	2-10	3-1	3-4	3-7
200.00	2-3	2-5	2-8	2-11	3-2	3-5	3-8	4-0	4-4	4-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 13 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH822.13
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-8	0-9	0-9	0-10	0-10	0-10	0-11	0-11	1-0
125.00	1-1	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-5	1-6
150.00	1-6	1-7	1-8	1-9	1-10	1-11	1-11	2-0	2-1	2-2
175.00	2-1	2-2	2-3	2-4	2-6	2-7	2-8	2-9	2-10	2-11
200.00	2-8	2-10	3-0	3-1	3-3	3-4	3-6	3-7	3-9	3-10
225.00	3-5	3-7	3-9	3-11	4-1	4-3	4-5	4-7	4-9	4-10
250.00	4-3	4-5	4-7	4-10	5-0	5-3	5-5	5-7	5-10	6-0

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-8	0-9	0-9	0-9	0-10	0-10	0-10	0-11	0-11	1-0
125.00	1-1	1-1	1-2	1-3	1-3	1-4	1-4	1-5	1-6	1-6
150.00	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-0	2-1	2-2
175.00	2-1	2-2	2-3	2-5	2-6	2-7	2-8	2-9	2-10	3-0
200.00	2-9	2-10	3-0	3-1	3-3	3-4	3-6	3-7	3-9	3-10
225.00	3-5	3-7	3-9	3-11	4-1	4-3	4-5	4-7	4-9	4-11
250.00	4-3	4-6	4-8	4-10	5-1	5-3	5-6	5-8	5-10	6-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div>SHEET</div> <div>14 OF 215</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH822.14
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-8	1-9	1-9	1-10	1-10	1-11	1-11	1-11	2-0	2-0
175.00	2-4	2-4	2-5	2-5	2-6	2-7	2-7	2-8	2-9	2-9
200.00	3-0	3-1	3-2	3-2	3-3	3-4	3-5	3-6	3-7	3-7
225.00	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7
250.00	4-8	4-10	4-11	5-0	5-1	5-3	5-4	5-5	5-6	5-8
275.00	5-8	5-10	5-11	6-1	6-2	6-4	6-5	6-7	6-8	6-10
300.00	6-9	6-11	7-1	7-3	7-5	7-6	7-8	7-10	8-0	8-2
325.00	7-11	8-1	8-4	8-6	8-8	8-10	9-0	9-2	9-4	9-6
350.00	9-2	9-5	9-7	9-10	10-1	10-3	10-5	10-8	10-10	11-1
375.00	10-7	10-10	11-1	11-3	11-6	11-9	12-0	12-3	12-6	12-8

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-8	1-9	1-9	1-10	1-10	1-11	1-11	2-0	2-0	2-0
175.00	2-4	2-4	2-5	2-6	2-6	2-7	2-7	2-8	2-9	2-9
200.00	3-0	3-1	3-2	3-3	3-4	3-4	3-5	3-6	3-7	3-7
225.00	3-10	3-11	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7
250.00	4-9	4-10	4-11	5-0	5-2	5-3	5-4	5-5	5-7	5-8
275.00	5-8	5-10	6-0	6-1	6-3	6-4	6-6	6-7	6-9	6-10
300.00	6-9	6-11	7-1	7-3	7-5	7-7	7-9	7-10	8-0	8-2
325.00	8-0	8-2	8-4	8-6	8-8	8-11	9-1	9-3	9-5	9-7
350.00	9-3	9-5	9-8	9-11	10-1	10-4	10-6	10-8	10-11	11-1
375.00	10-7	10-10	11-1	11-4	11-7	11-10	12-1	12-3	12-6	12-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 15 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH822.15
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-2	3-2	3-3	3-3	3-4	3-4	3-5	3-5	3-6	3-6
225.00	4-0	4-0	4-1	4-2	4-2	4-3	4-3	4-4	4-5	4-5
250.00	4-11	5-0	5-0	5-1	5-2	5-3	5-4	5-4	5-5	5-6
275.00	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-8
300.00	7-1	7-2	7-3	7-4	7-5	7-6	7-8	7-9	7-10	7-11
325.00	8-4	8-5	8-6	8-8	8-9	8-10	8-11	9-1	9-2	9-3
350.00	9-8	9-9	9-11	10-0	10-2	10-3	10-5	10-6	10-8	10-9
375.00	11-1	11-2	11-4	11-6	11-8	11-9	11-11	12-1	12-2	12-4
400.00	12-7	12-9	12-11	13-1	13-3	13-5	13-7	13-9	13-11	14-1
425.00	14-2	14-5	14-7	14-9	14-11	15-2	15-4	15-6	15-8	15-10
450.00	15-11	16-2	16-4	16-7	16-9	17-0	17-2	17-5	17-7	17-9
475.00	17-9	18-0	18-3	18-5	18-8	18-11	19-2	19-5	19-7	19-10
500.00	19-8	19-11	20-2	20-5	20-9	21-0	21-3	21-6	21-9	22-0

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	3-2	3-2	3-3	3-3	3-4	3-4	3-5	3-5	3-6	3-6
225.00	4-0	4-1	4-1	4-2	4-2	4-3	4-4	4-4	4-5	4-5
250.00	4-11	5-0	5-1	5-1	5-2	5-3	5-4	5-4	5-5	5-6
275.00	6-0	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-8
300.00	7-1	7-2	7-3	7-4	7-6	7-7	7-8	7-9	7-10	7-11
325.00	8-4	8-5	8-7	8-8	8-9	8-10	9-0	9-1	9-2	9-3
350.00	9-8	9-9	9-11	10-0	10-2	10-3	10-5	10-6	10-8	10-9
375.00	11-1	11-3	11-5	11-6	11-8	11-10	11-11	12-1	12-3	12-4
400.00	12-7	12-9	12-11	13-1	13-3	13-5	13-7	13-9	13-11	14-1
425.00	14-3	14-5	14-8	14-10	15-0	15-2	15-4	15-7	15-9	15-11
450.00	16-0	16-2	16-5	16-7	16-10	17-0	17-3	17-5	17-8	17-10
475.00	17-10	18-1	18-3	18-6	18-9	19-0	19-2	19-5	19-8	19-10
500.00	19-9	20-0	20-3	20-6	20-9	21-0	21-3	21-6	21-9	22-0

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 16 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH822.16
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS										

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.001	2.5	2000	2.5	2000*
25	0	0	0	0.629	1.86	1690	1.85	1704
30	0	0	0	0.629	1.91	1645	1.89	1662
40	0	0	0	0.629	2.02	1560	1.99	1579
50	0	0	0	0.629	2.13	1480	2.1	1501
60	0	0	0	0.629	2.24	1404	2.21	1426
70	0	0	0	0.629	2.36	1334	2.32	1356
80	0	0	0	0.629	2.48	1268	2.44	1290
90	0	0	0	0.629	2.61	1208	2.56	1229
100	0	0	0	0.629	2.73	1152	2.69	1172
110	0	0	0	0.629	2.86	1100	2.81	1119
120	0	0	0	0.629	2.99	1053	2.94	1070
130	0	0	0	0.629	3.12	1009	3.07	1025
167	0	0	0	0.629	3.59	877	3.55	887
212	0	0	0	0.629	4.1	768	4.05	778

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 18 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH822.18
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS										

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.001	10.04	2000	10.04	2000*
25	0	0	0	0.629	8.91	1414	8.85	1424
30	0	0	0	0.629	9.02	1398	8.95	1408
40	0	0	0	0.629	9.21	1368	9.15	1378
50	0	0	0	0.629	9.41	1339	9.35	1349
60	0	0	0	0.629	9.61	1312	9.54	1321
70	0	0	0	0.629	9.81	1286	9.74	1295
80	0	0	0	0.629	10	1261	9.93	1270
90	0	0	0	0.629	10.19	1238	10.12	1246
100	0	0	0	0.629	10.38	1215	10.32	1223
110	0	0	0	0.629	10.57	1193	10.51	1201
120	0	0	0	0.629	10.76	1173	10.69	1180
130	0	0	0	0.629	10.94	1153	10.88	1159
167	0	0	0	0.629	11.61	1087	11.56	1092
212	0	0	0	0.629	12.39	1019	12.33	1024

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 19 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH822.19
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS										

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.001	15.7	2000	15.7	2000*
25	0	0	0	0.629	14.5	1360	14.43	1367
30	0	0	0	0.629	14.61	1350	14.54	1357
40	0	0	0	0.629	14.82	1331	14.75	1337
50	0	0	0	0.629	15.04	1312	14.96	1318
60	0	0	0	0.629	15.25	1294	15.17	1300
70	0	0	0	0.629	15.46	1277	15.38	1283
80	0	0	0	0.629	15.66	1260	15.59	1266
90	0	0	0	0.629	15.87	1244	15.8	1249
100	0	0	0	0.629	16.07	1228	16	1233
110	0	0	0	0.629	16.28	1213	16.21	1218
120	0	0	0	0.629	16.48	1198	16.41	1203
130	0	0	0	0.629	16.68	1184	16.61	1188
167	0	0	0	0.629	17.4	1135	17.35	1139
212	0	0	0	0.629	18.25	1083	18.2	1086

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

OH822.20

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-8
125.00	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-1
150.00	1-0	1-1	1-1	1-2	1-3	1-4	1-4	1-5	1-6	1-7
175.00	1-5	1-5	1-6	1-7	1-8	1-9	1-10	2-0	2-1	2-2
200.00	1-10	1-11	2-0	2-1	2-2	2-4	2-5	2-7	2-8	2-10
225.00	2-3	2-5	2-6	2-8	2-10	2-11	3-1	3-3	3-5	3-7
250.00	2-10	2-11	3-1	3-3	3-5	3-8	3-10	4-0	4-2	4-5

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9
125.00	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-1
150.00	1-0	1-1	1-2	1-2	1-3	1-4	1-5	1-6	1-6	1-7
175.00	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2
200.00	1-10	1-11	2-0	2-2	2-3	2-4	2-6	2-7	2-9	2-10
225.00	2-4	2-5	2-7	2-8	2-10	3-0	3-2	3-4	3-6	3-7
250.00	2-10	3-0	3-2	3-4	3-6	3-8	3-11	4-1	4-3	4-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 22 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.22
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-2	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6
175.00	1-7	1-7	1-8	1-9	1-9	1-10	1-11	1-11	2-0	2-1
200.00	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-6	2-7	2-8
225.00	2-7	2-8	2-9	2-10	2-11	3-0	3-1	3-3	3-4	3-5
250.00	3-2	3-3	3-5	3-6	3-7	3-9	3-10	4-0	4-1	4-2
275.00	3-10	4-0	4-1	4-3	4-5	4-6	4-8	4-10	4-11	5-1
300.00	4-7	4-9	4-11	5-1	5-3	5-5	5-7	5-9	5-11	6-1
325.00	5-4	5-6	5-9	5-11	6-1	6-4	6-6	6-9	6-11	7-1
350.00	6-2	6-5	6-8	6-10	7-1	7-4	7-7	7-9	8-0	8-3
375.00	7-1	7-4	7-8	7-11	8-2	8-5	8-8	8-11	9-2	9-5

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-2	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6
175.00	1-7	1-7	1-8	1-9	1-10	1-10	1-11	2-0	2-0	2-1
200.00	2-1	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
225.00	2-7	2-8	2-9	2-10	3-0	3-1	3-2	3-3	3-4	3-5
250.00	3-2	3-4	3-5	3-6	3-8	3-9	3-11	4-0	4-2	4-3
275.00	3-10	4-0	4-2	4-3	4-5	4-7	4-9	4-10	5-0	5-2
300.00	4-7	4-9	4-11	5-1	5-3	5-5	5-7	5-9	5-11	6-1
325.00	5-5	5-7	5-9	6-0	6-2	6-5	6-7	6-9	7-0	7-2
350.00	6-3	6-6	6-9	6-11	7-2	7-5	7-8	7-10	8-1	8-4
375.00	7-2	7-5	7-8	8-0	8-3	8-6	8-9	9-0	9-3	9-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D							
SHEET 23 OF 215		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH822.23
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS											

Stringing Sag Table Using Initial Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-2	2-3	2-3	2-4	2-5	2-5	2-6	2-6	2-7	2-7
225.00	2-9	2-10	2-11	2-11	3-0	3-1	3-2	3-2	3-3	3-4
250.00	3-5	3-6	3-7	3-8	3-9	3-10	3-11	3-11	4-0	4-1
275.00	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10	5-0
300.00	4-11	5-0	5-2	5-3	5-4	5-6	5-7	5-8	5-10	5-11
325.00	5-9	5-11	6-0	6-2	6-4	6-5	6-7	6-8	6-10	6-11
350.00	6-8	6-10	7-0	7-2	7-4	7-5	7-7	7-9	7-11	8-0
375.00	7-8	7-10	8-1	8-3	8-5	8-7	8-9	8-11	9-1	9-3
400.00	8-9	8-11	9-2	9-4	9-7	9-9	9-11	10-1	10-4	10-6
425.00	9-11	10-1	10-4	10-7	10-9	11-0	11-3	11-5	11-8	11-10
450.00	11-1	11-4	11-7	11-10	12-1	12-4	12-7	12-10	13-1	13-4
475.00	12-4	12-8	12-11	13-2	13-6	13-9	14-0	14-3	14-7	14-10
500.00	13-8	14-0	14-4	14-7	14-11	15-3	15-6	15-10	16-2	16-5

Stringing Sag Table Using Final Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-2	2-3	2-4	2-4	2-5	2-5	2-6	2-7	2-7	2-8
225.00	2-9	2-10	2-11	3-0	3-0	3-1	3-2	3-3	3-3	3-4
250.00	3-5	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2
275.00	4-2	4-3	4-4	4-5	4-6	4-8	4-9	4-10	4-11	5-0
300.00	4-11	5-1	5-2	5-4	5-5	5-6	5-7	5-9	5-10	5-11
325.00	5-10	5-11	6-1	6-3	6-4	6-6	6-7	6-9	6-10	7-0
350.00	6-9	6-11	7-1	7-2	7-4	7-6	7-8	7-10	7-11	8-1
375.00	7-9	7-11	8-1	8-3	8-5	8-7	8-9	8-11	9-1	9-3
400.00	8-10	9-0	9-3	9-5	9-7	9-10	10-0	10-2	10-5	10-7
425.00	9-11	10-2	10-5	10-8	10-10	11-1	11-3	11-6	11-9	11-11
450.00	11-2	11-5	11-8	11-11	12-2	12-5	12-8	12-11	13-2	13-5
475.00	12-5	12-9	13-0	13-3	13-7	13-10	14-1	14-5	14-8	14-11
500.00	13-9	14-1	14-5	14-9	15-0	15-4	15-8	15-11	16-3	16-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

Indicates Latest Revision

Completely Revised



New Page

Information Removed

SHEET
24 OF 215

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.24

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.988	10.04	1000	10.04	1000*
0	0	0	0	0.629	9.73	326	9.71	327
30	0	0	0	0.629	9.91	321	9.89	321
40	0	0	0	0.629	9.97	319	9.95	319
50	0	0	0	0.629	10.03	317	10.01	317
60	0	0	0	0.629	10.08	315	10.07	316
70	0	0	0	0.629	10.14	313	10.13	314
80	0	0	0	0.629	10.20	312	10.19	312
90	0	0	0	0.629	10.26	310	10.25	310
100	0	0	0	0.629	10.31	308	10.30	308
110	0	0	0	0.629	10.37	306	10.36	307
120	0	0	0	0.629	10.43	305	10.41	305
130	0	0	0	0.629	10.48	303	10.46	304
167	0	0	0	0.629	10.67	298	10.65	299
212	0	0	0	0.629	10.89	292	10.87	293
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D							
SHEET 26 OF 215		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH822.26
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1000 LBS											

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.988	22.88	1000	22.88	1000*
0	0	0	0	0.629	22.57	321	22.55	321
30	0	0	0	0.629	22.75	318	22.73	318
40	0	0	0	0.629	22.81	317	22.79	318
50	0	0	0	0.629	22.87	317	22.85	317
60	0	0	0	0.629	22.93	316	22.91	316
70	0	0	0	0.629	22.99	315	22.97	315
80	0	0	0	0.629	23.05	314	23.03	314
90	0	0	0	0.629	23.10	314	23.09	314
100	0	0	0	0.629	23.16	313	23.15	313
110	0	0	0	0.629	23.22	312	23.21	312
120	0	0	0	0.629	23.28	311	23.26	312
130	0	0	0	0.629	23.33	311	23.31	311
167	0	0	0	0.629	23.53	308	23.51	308
212	0	0	0	0.629	23.76	305	23.74	306

* Design Condition

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.988	41.47	1000	41.47	1000*
0	0	0	0	0.629	41.16	319	41.14	319
30	0	0	0	0.629	41.34	317	41.32	318
40	0	0	0	0.629	41.40	317	41.38	317
50	0	0	0	0.629	41.46	317	41.44	317
60	0	0	0	0.629	41.52	316	41.50	316
70	0	0	0	0.629	41.57	316	41.56	316
80	0	0	0	0.629	41.63	315	41.62	315
90	0	0	0	0.629	41.69	315	41.68	315
100	0	0	0	0.629	41.75	314	41.74	315
110	0	0	0	0.629	41.81	314	41.79	314
120	0	0	0	0.629	41.87	314	41.85	314
130	0	0	0	0.629	41.92	313	41.90	313
167	0	0	0	0.629	42.12	312	42.10	312
212	0	0	0	0.629	42.36	310	42.34	311

* Design Condition

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B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 27 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH822.27
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1000 LBS										

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.988	66.54	1000	66.54	1000*
0	0	0	0	0.629	66.23	318	66.21	318
30	0	0	0	0.629	66.41	317	66.39	317
40	0	0	0	0.629	66.47	317	66.45	317
50	0	0	0	0.629	66.53	316	66.51	317
60	0	0	0	0.629	66.59	316	66.57	316
70	0	0	0	0.629	66.65	316	66.63	316
80	0	0	0	0.629	66.70	316	66.69	316
90	0	0	0	0.629	66.76	316	66.75	316
100	0	0	0	0.629	66.82	315	66.81	315
110	0	0	0	0.629	66.88	315	66.87	315
120	0	0	0	0.629	66.94	315	66.92	315
130	0	0	0	0.629	66.99	315	66.97	315
167	0	0	0	0.629	67.19	314	67.17	314
212	0	0	0	0.629	67.43	313	67.41	313

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

Indicates Latest Revision	Completely Revised	X	New Page	Information Removed
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.28

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-5	2-6	2-6	2-6	2-6	2-6	2-6	2-7	2-7	2-7
125.00	3-10	3-10	3-11	3-11	3-11	3-11	4-0	4-0	4-0	4-0
150.00	5-6	5-7	5-7	5-7	5-8	5-8	5-9	5-9	5-9	5-10
175.00	7-6	7-7	7-7	7-8	7-8	7-9	7-10	7-10	7-11	7-11
200.00	9-10	9-11	9-11	10-0	10-1	10-2	10-2	10-3	10-4	10-4
225.00	12-5	12-6	12-7	12-8	12-9	12-10	12-11	13-0	13-1	13-1
250.00	15-5	15-6	15-7	15-8	15-9	15-10	15-11	16-0	16-2	16-3

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-5	2-6	2-6	2-6	2-6	2-6	2-7	2-7	2-7	2-7
125.00	3-10	3-10	3-11	3-11	3-11	3-11	4-0	4-0	4-0	4-1
150.00	5-6	5-7	5-7	5-8	5-8	5-8	5-9	5-9	5-10	5-10
175.00	7-6	7-7	7-7	7-8	7-9	7-9	7-10	7-10	7-11	7-11
200.00	9-10	9-11	10-0	10-0	10-1	10-2	10-2	10-3	10-4	10-4
225.00	12-6	12-7	12-8	12-8	12-9	12-10	12-11	13-0	13-1	13-2
250.00	15-5	15-6	15-7	15-8	15-9	15-11	16-0	16-1	16-2	16-3

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B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 30 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH822.30
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1000 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-8	5-8	5-8	5-8	5-8	5-9	5-9	5-9	5-9	5-9
175.00	7-8	7-8	7-9	7-9	7-9	7-9	7-10	7-10	7-10	7-10
200.00	10-0	10-1	10-1	10-1	10-2	10-2	10-2	10-3	10-3	10-3
225.00	12-9	12-9	12-9	12-10	12-10	12-11	12-11	12-11	13-0	13-0
250.00	15-8	15-9	15-9	15-10	15-10	15-11	15-11	16-0	16-0	16-1
275.00	19-0	19-1	19-2	19-2	19-3	19-3	19-4	19-5	19-5	19-6
300.00	22-8	22-9	22-10	22-10	22-11	23-0	23-0	23-1	23-2	23-2
325.00	26-8	26-9	26-9	26-10	26-11	27-0	27-1	27-2	27-3	27-3
350.00	30-11	31-0	31-1	31-2	31-3	31-4	31-5	31-6	31-7	31-8
375.00	35-7	35-8	35-9	35-10	35-11	36-1	36-2	36-3	36-4	36-5

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-8	5-8	5-8	5-8	5-8	5-9	5-9	5-9	5-9	5-9
175.00	7-8	7-8	7-9	7-9	7-9	7-9	7-10	7-10	7-10	7-10
200.00	10-1	10-1	10-1	10-1	10-2	10-2	10-2	10-3	10-3	10-3
225.00	12-9	12-9	12-9	12-10	12-10	12-11	12-11	12-11	13-0	13-0
250.00	15-9	15-9	15-10	15-10	15-11	15-11	16-0	16-0	16-1	16-1
275.00	19-1	19-1	19-2	19-2	19-3	19-4	19-4	19-5	19-5	19-6
300.00	22-8	22-9	22-10	22-10	22-11	23-0	23-1	23-1	23-2	23-3
325.00	26-8	26-9	26-10	26-11	26-11	27-0	27-1	27-2	27-3	27-3
350.00	31-0	31-1	31-2	31-3	31-4	31-5	31-5	31-6	31-7	31-8
375.00	35-7	35-8	35-10	35-11	36-0	36-1	36-2	36-3	36-4	36-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 31 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.31
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	10-3	10-3	10-3	10-3	10-3	10-3	10-4	10-4	10-4	10-4
225.00	12-11	12-11	13-0	13-0	13-0	13-0	13-1	13-1	13-1	13-1
250.00	16-0	16-0	16-0	16-1	16-1	16-1	16-1	16-2	16-2	16-2
275.00	19-4	19-5	19-5	19-5	19-6	19-6	19-6	19-7	19-7	19-7
300.00	23-1	23-1	23-2	23-2	23-2	23-3	23-3	23-4	23-4	23-4
325.00	27-1	27-2	27-2	27-3	27-3	27-4	27-4	27-5	27-5	27-6
350.00	31-6	31-6	31-7	31-7	31-8	31-9	31-9	31-10	31-10	31-11
375.00	36-2	36-3	36-4	36-4	36-5	36-6	36-6	36-7	36-7	36-8
400.00	41-3	41-4	41-5	41-5	41-6	41-7	41-7	41-8	41-9	41-10
425.00	46-8	46-9	46-10	46-10	46-11	47-0	47-1	47-2	47-2	47-3
450.00	52-5	52-6	52-7	52-8	52-9	52-10	52-10	52-11	53-0	53-1
475.00	58-6	58-7	58-8	58-9	58-10	58-11	59-0	59-1	59-2	59-3
500.00	65-0	65-1	65-2	65-3	65-4	65-5	65-7	65-8	65-9	65-10

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	10-3	10-3	10-3	10-3	10-3	10-3	10-4	10-4	10-4	10-4
225.00	12-11	12-11	13-0	13-0	13-0	13-0	13-1	13-1	13-1	13-1
250.00	16-0	16-0	16-0	16-1	16-1	16-1	16-1	16-2	16-2	16-2
275.00	19-4	19-5	19-5	19-5	19-6	19-6	19-6	19-7	19-7	19-7
300.00	23-1	23-1	23-2	23-2	23-3	23-3	23-3	23-4	23-4	23-4
325.00	27-1	27-2	27-2	27-3	27-3	27-4	27-4	27-5	27-5	27-6
350.00	31-6	31-7	31-7	31-8	31-8	31-9	31-9	31-10	31-10	31-11
375.00	36-3	36-3	36-4	36-4	36-5	36-6	36-6	36-7	36-8	36-8
400.00	41-3	41-4	41-5	41-5	41-6	41-7	41-8	41-8	41-9	41-10
425.00	46-8	46-9	46-10	46-11	46-11	47-0	47-1	47-2	47-3	47-3
450.00	52-5	52-6	52-7	52-8	52-9	52-10	52-11	53-0	53-0	53-1
475.00	58-6	58-7	58-9	58-10	58-11	59-0	59-1	59-2	59-3	59-4
500.00	65-0	65-1	65-2	65-3	65-5	65-6	65-7	65-8	65-9	65-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 32 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.32
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1000 LBS									

Span = 500 ft

Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.988	42.62	1500	42.62	1500*
0	0	0	0	0.629	41.92	482	41.87	483
30	0	0	0	0.629	42.19	479	42.14	480
40	0	0	0	0.629	42.28	478	42.23	479
50	0	0	0	0.629	42.37	477	42.32	478
60	0	0	0	0.629	42.45	476	42.41	477
70	0	0	0	0.629	42.54	475	42.50	476
80	0	0	0	0.629	42.63	475	42.59	475
90	0	0	0	0.629	42.72	474	42.69	474
100	0	0	0	0.629	42.81	473	42.78	473
110	0	0	0	0.629	42.90	472	42.87	472
120	0	0	0	0.629	42.98	471	42.96	471
130	0	0	0	0.629	43.07	470	43.04	470
167	0	0	0	0.629	43.37	467	43.33	467
212	0	0	0	0.629	43.73	463	43.69	464

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>36 OF 215</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.36
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-6	1-7	1-7	1-7	1-7	1-8	1-8	1-8	1-8	1-9
125.00	2-5	2-5	2-5	2-6	2-6	2-7	2-7	2-7	2-8	2-8
150.00	3-5	3-6	3-6	3-7	3-8	3-8	3-9	3-9	3-10	3-10
175.00	4-8	4-9	4-10	4-10	4-11	5-0	5-1	5-2	5-3	5-3
200.00	6-1	6-2	6-3	6-4	6-6	6-7	6-8	6-9	6-10	6-11
225.00	7-9	7-10	7-11	8-1	8-2	8-3	8-5	8-6	8-7	8-9
250.00	9-6	9-8	9-10	10-0	10-1	10-3	10-4	10-6	10-8	10-9

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-6	1-7	1-7	1-7	1-7	1-8	1-8	1-8	1-8	1-9
125.00	2-5	2-5	2-6	2-6	2-6	2-7	2-7	2-8	2-8	2-8
150.00	3-5	3-6	3-7	3-7	3-8	3-8	3-9	3-10	3-10	3-11
175.00	4-8	4-9	4-10	4-11	5-0	5-0	5-1	5-2	5-3	5-4
200.00	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-9	6-10	6-11
225.00	7-9	7-11	8-0	8-1	8-3	8-4	8-5	8-7	8-8	8-9
250.00	9-7	9-9	9-11	10-0	10-2	10-4	10-5	10-7	10-8	10-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 38 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH822.38
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span:		400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-7	6-7	6-7	6-8	6-8	6-8	6-9	6-9	6-9	6-9
225.00	8-4	8-4	8-5	8-5	8-5	8-6	8-6	8-6	8-7	8-7
250.00	10-3	10-4	10-4	10-5	10-5	10-6	10-6	10-6	10-7	10-7
275.00	12-5	12-6	12-6	12-7	12-7	12-8	12-8	12-9	12-9	12-10
300.00	14-10	14-11	14-11	15-0	15-0	15-1	15-2	15-2	15-3	15-3
325.00	17-5	17-6	17-6	17-7	17-8	17-8	17-9	17-10	17-11	17-11
350.00	20-2	20-3	20-4	20-5	20-6	20-7	20-7	20-8	20-9	20-10
375.00	23-2	23-3	23-4	23-5	23-6	23-7	23-8	23-9	23-10	23-11
400.00	26-5	26-6	26-7	26-8	26-9	26-10	27-0	27-1	27-2	27-3
425.00	29-10	29-11	30-1	30-2	30-3	30-4	30-6	30-7	30-8	30-9
450.00	33-6	33-7	33-9	33-10	33-11	34-1	34-2	34-4	34-5	34-6
475.00	37-4	37-6	37-7	37-9	37-10	38-0	38-1	38-3	38-4	38-6
500.00	41-5	41-7	41-8	41-10	42-0	42-2	42-3	42-5	42-7	42-8

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-7	6-7	6-8	6-8	6-8	6-8	6-9	6-9	6-9	6-9
225.00	8-4	8-4	8-5	8-5	8-5	8-6	8-6	8-6	8-7	8-7
250.00	10-4	10-4	10-4	10-5	10-5	10-6	10-6	10-7	10-7	10-7
275.00	12-6	12-6	12-7	12-7	12-8	12-8	12-9	12-9	12-10	12-10
300.00	14-10	14-11	14-11	15-0	15-1	15-1	15-2	15-2	15-3	15-4
325.00	17-5	17-6	17-7	17-7	17-8	17-9	17-9	17-10	17-11	18-0
350.00	20-3	20-4	20-4	20-5	20-6	20-7	20-8	20-9	20-9	20-10
375.00	23-3	23-4	23-5	23-6	23-7	23-8	23-9	23-9	23-10	23-11
400.00	26-6	26-7	26-8	26-9	26-10	26-11	27-0	27-1	27-2	27-3
425.00	29-11	30-0	30-1	30-2	30-4	30-5	30-6	30-7	30-8	30-10
450.00	33-7	33-8	33-9	33-11	34-0	34-1	34-3	34-4	34-5	34-7
475.00	37-5	37-6	37-8	37-9	37-11	38-1	38-2	38-4	38-5	38-6
500.00	41-6	41-8	41-9	41-11	42-1	42-2	42-4	42-6	42-7	42-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 40 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH822.40
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS										

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>42 OF 215</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.42
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	1.988	31.55	2000	31.55	2000*
0	0	0	0	0.629	30.31	658	30.22	660
30	0	0	0	0.629	30.67	651	30.59	652
40	0	0	0	0.629	30.79	648	30.71	650
50	0	0	0	0.629	30.91	646	30.83	647
60	0	0	0	0.629	31.03	643	30.95	645
70	0	0	0	0.629	31.15	641	31.07	642
80	0	0	0	0.629	31.27	639	31.19	640
90	0	0	0	0.629	31.38	636	31.31	638
100	0	0	0	0.629	31.50	634	31.43	635
110	0	0	0	0.629	31.62	632	31.55	633
120	0	0	0	0.629	31.73	629	31.67	631
130	0	0	0	0.629	31.85	627	31.79	628
167	0	0	0	0.629	32.26	620	32.19	621
212	0	0	0	0.629	32.72	611	32.66	612

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>44 OF 215</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH822.44</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING</p> <p>3/0 RTS TRIPLEX TENSION 2000 LBS</p> </div>				

Completely Revised



Information Removed

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

OH822.44

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-0	1-0	1-1	1-1	1-1	1-2	1-2	1-2	1-3	1-3
125.00	1-6	1-7	1-8	1-8	1-9	1-9	1-10	1-10	1-11	1-11
150.00	2-3	2-3	2-4	2-5	2-6	2-7	2-7	2-8	2-9	2-10
175.00	3-0	3-1	3-2	3-4	3-5	3-6	3-7	3-8	3-9	3-10
200.00	3-11	4-1	4-2	4-4	4-5	4-6	4-8	4-9	4-10	5-0
225.00	5-0	5-2	5-4	5-5	5-7	5-9	5-11	6-0	6-2	6-4
250.00	6-2	6-4	6-6	6-9	6-11	7-1	7-3	7-5	7-7	7-9

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-0	1-0	1-1	1-1	1-1	1-2	1-2	1-2	1-3	1-3
125.00	1-7	1-7	1-8	1-9	1-9	1-10	1-10	1-11	1-11	2-0
150.00	2-3	2-4	2-5	2-6	2-6	2-7	2-8	2-9	2-9	2-10
175.00	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10
200.00	4-0	4-2	4-3	4-5	4-6	4-7	4-9	4-10	4-11	5-0
225.00	5-1	5-3	5-5	5-6	5-8	5-10	6-0	6-1	6-3	6-5
250.00	6-3	6-6	6-8	6-10	7-0	7-2	7-4	7-7	7-9	7-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 46 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH822.46
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-6	2-7	2-7	2-8	2-8	2-8	2-9	2-9	2-9	2-10
175.00	3-5	3-6	3-6	3-7	3-7	3-8	3-8	3-9	3-9	3-10
200.00	4-6	4-7	4-7	4-8	4-9	4-9	4-10	4-11	4-11	5-0
225.00	5-9	5-9	5-10	5-11	6-0	6-1	6-1	6-2	6-3	6-4
250.00	7-1	7-2	7-3	7-4	7-5	7-6	7-7	7-8	7-9	7-10
275.00	8-6	8-8	8-9	8-10	8-11	9-1	9-2	9-3	9-4	9-5
300.00	10-2	10-3	10-5	10-6	10-8	10-9	10-11	11-0	11-2	11-3
325.00	11-11	12-1	12-3	12-4	12-6	12-8	12-9	12-11	13-1	13-2
350.00	13-10	14-0	14-2	14-4	14-6	14-8	14-10	15-0	15-2	15-4
375.00	15-11	16-1	16-3	16-6	16-8	16-10	17-0	17-3	17-5	17-7

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-7	2-7	2-7	2-8	2-8	2-8	2-9	2-9	2-10	2-10
175.00	3-6	3-6	3-7	3-7	3-8	3-8	3-9	3-9	3-10	3-10
200.00	4-7	4-7	4-8	4-9	4-9	4-10	4-10	4-11	5-0	5-0
225.00	5-9	5-10	5-11	6-0	6-0	6-1	6-2	6-3	6-3	6-4
250.00	7-1	7-2	7-3	7-4	7-5	7-6	7-7	7-8	7-9	7-10
275.00	8-7	8-9	8-10	8-11	9-0	9-1	9-3	9-4	9-5	9-6
300.00	10-3	10-4	10-6	10-7	10-9	10-10	11-0	11-1	11-2	11-4
325.00	12-0	12-2	12-4	12-5	12-7	12-9	12-10	13-0	13-2	13-3
350.00	14-0	14-2	14-3	14-5	14-7	14-9	14-11	15-1	15-3	15-5
375.00	16-0	16-3	16-5	16-7	16-9	17-0	17-2	17-4	17-6	17-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 47 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH822.47
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-9	4-9	4-10	4-10	4-10	4-11	4-11	4-11	5-0	5-0
225.00	6-0	6-0	6-1	6-1	6-2	6-2	6-3	6-3	6-4	6-4
250.00	7-5	7-5	7-6	7-7	7-7	7-8	7-8	7-9	7-9	7-10
275.00	9-0	9-0	9-1	9-2	9-2	9-3	9-4	9-4	9-5	9-6
300.00	10-8	10-9	10-10	10-10	10-11	11-0	11-1	11-2	11-3	11-3
325.00	12-6	12-7	12-8	12-9	12-10	12-11	13-0	13-1	13-2	13-3
350.00	14-6	14-7	14-9	14-10	14-11	15-0	15-1	15-2	15-3	15-4
375.00	16-8	16-10	16-11	17-0	17-1	17-3	17-4	17-5	17-6	17-8
400.00	19-0	19-1	19-3	19-4	19-6	19-7	19-9	19-10	19-11	20-1
425.00	21-5	21-7	21-9	21-10	22-0	22-2	22-3	22-5	22-6	22-8
450.00	24-1	24-3	24-4	24-6	24-8	24-10	25-0	25-2	25-3	25-5
475.00	26-10	27-0	27-2	27-4	27-6	27-8	27-10	28-0	28-2	28-4
500.00	29-9	29-11	30-1	30-4	30-6	30-8	30-10	31-1	31-3	31-5

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-9	4-9	4-10	4-10	4-11	4-11	4-11	5-0	5-0	5-0
225.00	6-0	6-1	6-1	6-2	6-2	6-3	6-3	6-3	6-4	6-4
250.00	7-5	7-6	7-6	7-7	7-7	7-8	7-9	7-9	7-10	7-10
275.00	9-0	9-1	9-1	9-2	9-3	9-3	9-4	9-5	9-5	9-6
300.00	10-9	10-9	10-10	10-11	11-0	11-1	11-1	11-2	11-3	11-4
325.00	12-7	12-8	12-9	12-10	12-11	13-0	13-1	13-2	13-2	13-3
350.00	14-7	14-8	14-9	14-10	15-0	15-1	15-2	15-3	15-4	15-5
375.00	16-9	16-10	17-0	17-1	17-2	17-3	17-5	17-6	17-7	17-8
400.00	19-1	19-2	19-4	19-5	19-7	19-8	19-10	19-11	20-0	20-2
425.00	21-7	21-8	21-10	21-11	22-1	22-3	22-4	22-6	22-7	22-9
450.00	24-2	24-4	24-6	24-7	24-9	24-11	25-1	25-3	25-4	25-6
475.00	26-11	27-1	27-3	27-5	27-7	27-9	27-11	28-1	28-3	28-5
500.00	29-10	30-1	30-3	30-5	30-7	30-10	31-0	31-2	31-4	31-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>48 OF 215</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.48
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	4.593	24.33	1000	24.33	1000*
0	0	0	0	0.629	24.16	138	24.15	138
30	0	0	0	0.629	24.24	137	24.23	137
40	0	0	0	0.629	24.26	137	24.25	137
50	0	0	0	0.629	24.29	137	24.28	137
60	0	0	0	0.629	24.31	137	24.3	137
70	0	0	0	0.629	24.34	137	24.33	137
80	0	0	0	0.629	24.36	137	24.36	137
90	0	0	0	0.629	24.39	137	24.38	137
100	0	0	0	0.629	24.42	137	24.4	137
110	0	0	0	0.629	24.44	136	24.43	136
120	0	0	0	0.629	24.46	136	24.45	136
130	0	0	0	0.629	24.49	136	24.47	136
167	0	0	0	0.629	24.57	136	24.56	136
212	0	0	0	0.629	24.68	135	24.66	135
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
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B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D							
SHEET 50 OF 215		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH822.50
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1000 LBS											

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	4.593	134.07	1000	134.07	1000*
0	0	0	0	0.629	133.91	137	133.9	137
30	0	0	0	0.629	133.98	137	133.97	137
40	0	0	0	0.629	134	137	133.99	137
50	0	0	0	0.629	134.03	137	134.02	137
60	0	0	0	0.629	134.05	137	134.04	137
70	0	0	0	0.629	134.08	137	134.07	137
80	0	0	0	0.629	134.1	137	134.09	137
90	0	0	0	0.629	134.12	137	134.11	137
100	0	0	0	0.629	134.15	137	134.13	137
110	0	0	0	0.629	134.17	137	134.16	137
120	0	0	0	0.629	134.19	137	134.18	137
130	0	0	0	0.629	134.21	137	134.2	137
167	0	0	0	0.629	134.29	137	134.28	137
212	0	0	0	0.629	134.39	137	134.38	137

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>51 OF 215</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH822.51
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	3-2	3-2	3-3	3-3	3-3	3-3	3-3	3-4	3-4	3-4
100.00	5-8	5-9	5-9	5-9	5-10	5-10	5-10	5-10	5-11	5-11
125.00	8-11	8-11	9-0	9-0	9-1	9-1	9-2	9-2	9-3	9-3
150.00	12-10	12-11	13-0	13-1	13-1	13-2	13-3	13-3	13-4	13-5
175.00	17-7	17-8	17-9	17-10	17-11	18-0	18-1	18-2	18-3	18-3
200.00	23-1	23-2	23-3	23-5	23-6	23-7	23-8	23-10	23-11	24-0

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	3-2	3-3	3-3	3-3	3-3	3-3	3-3	3-4	3-4	3-4
100.00	5-8	5-9	5-9	5-9	5-10	5-10	5-10	5-11	5-11	5-11
125.00	8-11	9-0	9-0	9-1	9-1	9-2	9-2	9-3	9-3	9-3
150.00	12-11	12-11	13-0	13-1	13-2	13-2	13-3	13-4	13-4	13-5
175.00	17-7	17-8	17-9	17-10	17-11	18-0	18-1	18-2	18-3	18-4
200.00	23-1	23-2	23-4	23-5	23-6	23-8	23-9	23-10	23-11	24-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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SHEET
52 OF 215

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1000 LBS

OH822.52

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	6-0	6-0	6-0	6-0	6-0	6-0	6-0	6-0	6-0	6-0
125.00	9-4	9-4	9-4	9-5	9-5	9-5	9-5	9-5	9-5	9-5
150.00	13-6	13-6	13-6	13-7	13-7	13-7	13-7	13-7	13-7	13-8
175.00	18-5	18-6	18-6	18-6	18-6	18-7	18-7	18-7	18-7	18-7
200.00	24-2	24-3	24-3	24-3	24-4	24-4	24-4	24-5	24-5	24-5
225.00	30-9	30-10	30-10	30-11	30-11	30-11	31-0	31-0	31-0	31-1
250.00	38-3	38-3	38-4	38-4	38-5	38-5	38-6	38-6	38-6	38-7

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	6-0	6-0	6-0	6-0	6-0	6-0	6-0	6-0	6-0	6-0
125.00	9-4	9-4	9-4	9-5	9-5	9-5	9-5	9-5	9-5	9-5
150.00	13-6	13-6	13-6	13-7	13-7	13-7	13-7	13-7	13-7	13-8
175.00	18-5	18-6	18-6	18-6	18-6	18-7	18-7	18-7	18-7	18-8
200.00	24-3	24-3	24-3	24-3	24-4	24-4	24-4	24-5	24-5	24-5
225.00	30-10	30-10	30-10	30-11	30-11	31-0	31-0	31-0	31-1	31-1
250.00	38-3	38-3	38-4	38-4	38-5	38-5	38-6	38-6	38-7	38-7

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>53 OF 215</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH822.53</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING</p> <p>3/0 RTS TRIPLEX TENSION 1000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	14-5	14-5	14-6	14-6	14-6	14-6	14-6	14-6	14-6	14-6
175.00	19-9	19-9	19-9	19-9	19-9	19-9	19-10	19-10	19-10	19-10
200.00	25-11	25-11	25-11	25-11	26-0	26-0	26-0	26-0	26-0	26-0
225.00	33-0	33-0	33-0	33-0	33-1	33-1	33-1	33-1	33-1	33-1
250.00	41-0	41-0	41-0	41-1	41-1	41-1	41-1	41-1	41-2	41-2
275.00	49-11	50-0	50-0	50-0	50-1	50-1	50-1	50-1	50-1	50-2
300.00	59-11	59-11	60-0	60-0	60-0	60-0	60-1	60-1	60-1	60-2
325.00	70-11	70-11	70-11	71-0	71-0	71-1	71-1	71-1	71-2	71-2
350.00	83-0	83-0	83-0	83-1	83-1	83-2	83-2	83-3	83-3	83-3
375.00	96-2	96-2	96-3	96-3	96-4	96-4	96-5	96-5	96-6	96-6

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	14-5	14-5	14-6	14-6	14-6	14-6	14-6	14-6	14-6	14-6
175.00	19-9	19-9	19-9	19-9	19-9	19-10	19-10	19-10	19-10	19-10
200.00	25-11	25-11	25-11	26-0	26-0	26-0	26-0	26-0	26-0	26-0
225.00	33-0	33-0	33-0	33-1	33-1	33-1	33-1	33-1	33-1	33-1
250.00	41-0	41-0	41-0	41-1	41-1	41-1	41-1	41-1	41-2	41-2
275.00	50-0	50-0	50-0	50-0	50-1	50-1	50-1	50-1	50-2	50-2
300.00	59-11	59-11	60-0	60-0	60-0	60-1	60-1	60-1	60-1	60-2
325.00	70-11	70-11	71-0	71-0	71-0	71-1	71-1	71-1	71-2	71-2
350.00	83-0	83-0	83-1	83-1	83-1	83-2	83-2	83-3	83-3	83-4
375.00	96-2	96-3	96-3	96-4	96-4	96-5	96-5	96-6	96-6	96-7

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>54 OF 215</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH822.54	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1000 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	4.593	15.69	1500	15.69	1500*
0	0	0	0	0.629	15.30	210	15.27	211
30	0	0	0	0.629	15.42	209	15.39	209
40	0	0	0	0.629	15.46	208	15.43	209
50	0	0	0	0.629	15.50	208	15.47	208
60	0	0	0	0.629	15.54	207	15.51	208
70	0	0	0	0.629	15.57	207	15.55	207
80	0	0	0	0.629	15.61	206	15.59	207
90	0	0	0	0.629	15.65	206	15.63	206
100	0	0	0	0.629	15.69	205	15.67	206
110	0	0	0	0.629	15.73	205	15.70	205
120	0	0	0	0.629	15.76	204	15.74	205
130	0	0	0	0.629	15.80	204	15.77	204
167	0	0	0	0.629	15.93	203	15.90	203
212	0	0	0	0.629	16.08	201	16.05	201

* Design Condition

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SHEET 56 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.56
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D							
SHEET 57 OF 215		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH822.57
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS											

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	4.593	116.90	1500	116.90	1500*
0	0	0	0	0.629	116.53	206	116.50	206
30	0	0	0	0.629	116.64	206	116.61	206
40	0	0	0	0.629	116.68	206	116.65	206
50	0	0	0	0.629	116.71	206	116.69	206
60	0	0	0	0.629	116.75	206	116.73	206
70	0	0	0	0.629	116.79	206	116.77	206
80	0	0	0	0.629	116.83	206	116.81	206
90	0	0	0	0.629	116.86	205	116.84	206
100	0	0	0	0.629	116.90	205	116.88	205
110	0	0	0	0.629	116.94	205	116.91	205
120	0	0	0	0.629	116.97	205	116.95	205
130	0	0	0	0.629	117.01	205	116.98	205
167	0	0	0	0.629	117.13	205	117.11	205
212	0	0	0	0.629	117.29	205	117.26	205

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.58

Stringing Sag Table Using Initial Sag										Ruling Span: 300.0 Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	8-11	8-11	8-11	8-11	8-11	9-0	9-0	9-0	9-0	9-0
175.00	12-2	12-2	12-2	12-2	12-2	12-3	12-3	12-3	12-3	12-3
200.00	15-11	15-11	15-11	15-11	16-0	16-0	16-0	16-0	16-0	16-1
225.00	20-2	20-2	20-3	20-3	20-3	20-3	20-4	20-4	20-4	20-4
250.00	25-0	25-0	25-0	25-1	25-1	25-1	25-2	25-2	25-2	25-2
275.00	30-4	30-4	30-4	30-5	30-5	30-6	30-6	30-6	30-7	30-7
300.00	36-2	36-2	36-3	36-3	36-4	36-4	36-5	36-5	36-6	36-6
325.00	42-7	42-8	42-8	42-9	42-9	42-10	42-10	42-11	42-11	43-0
350.00	49-7	49-7	49-8	49-9	49-9	49-10	49-11	49-11	50-0	50-0
375.00	57-1	57-2	57-3	57-3	57-4	57-5	57-6	57-6	57-7	57-8

Stringing Sag Table Using Final Sag										Ruling Span: 300.0 Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	8-11	8-11	8-11	8-11	9-0	9-0	9-0	9-0	9-0	9-0
175.00	12-2	12-2	12-2	12-2	12-3	12-3	12-3	12-3	12-3	12-3
200.00	15-11	15-11	15-11	16-0	16-0	16-0	16-0	16-0	16-1	16-1
225.00	20-2	20-3	20-3	20-3	20-3	20-4	20-4	20-4	20-4	20-5
250.00	25-0	25-0	25-0	25-1	25-1	25-1	25-2	25-2	25-2	25-3
275.00	30-4	30-4	30-5	30-5	30-5	30-6	30-6	30-7	30-7	30-7
300.00	36-2	36-3	36-3	36-4	36-4	36-5	36-5	36-6	36-6	36-6
325.00	42-7	42-8	42-8	42-9	42-10	42-10	42-11	42-11	43-0	43-0
350.00	49-7	49-8	49-8	49-9	49-10	49-10	49-11	50-0	50-0	50-1
375.00	57-2	57-2	57-3	57-4	57-5	57-5	57-6	57-7	57-8	57-8

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SHEET 61 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH822.61
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span:		400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	16-7	16-7	16-7	16-7	16-7	16-8	16-8	16-8	16-8	16-8
225.00	21-0	21-1	21-1	21-1	21-1	21-1	21-1	21-1	21-2	21-2
250.00	26-1	26-1	26-1	26-1	26-1	26-1	26-2	26-2	26-2	26-2
275.00	31-7	31-8	31-8	31-8	31-8	31-8	31-9	31-9	31-9	31-9
300.00	37-9	37-9	37-9	37-10	37-10	37-10	37-10	37-11	37-11	37-11
325.00	44-5	44-6	44-6	44-6	44-7	44-7	44-7	44-7	44-8	44-8
350.00	51-9	51-9	51-10	51-10	51-10	51-11	51-11	51-11	52-0	52-0
375.00	59-8	59-8	59-8	59-9	59-9	59-10	59-10	59-10	59-11	59-11
400.00	68-2	68-2	68-3	68-3	68-4	68-4	68-5	68-5	68-5	68-6
425.00	77-3	77-4	77-5	77-5	77-6	77-6	77-7	77-7	77-8	77-8
450.00	87-1	87-1	87-2	87-3	87-3	87-4	87-5	87-5	87-6	87-6
475.00	97-6	97-7	97-8	97-8	97-9	97-10	97-10	97-11	98-0	98-0
500.00	108-8	108-8	108-9	108-10	108-11	109-0	109-0	109-1	109-2	109-2

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	16-7	16-7	16-7	16-7	16-8	16-8	16-8	16-8	16-8	16-8
225.00	21-1	21-1	21-1	21-1	21-1	21-1	21-1	21-2	21-2	21-2
250.00	26-1	26-1	26-1	26-1	26-1	26-1	26-2	26-2	26-2	26-2
275.00	31-7	31-8	31-8	31-8	31-8	31-8	31-9	31-9	31-9	31-9
300.00	37-9	37-9	37-10	37-10	37-10	37-10	37-10	37-11	37-11	37-11
325.00	44-6	44-6	44-6	44-6	44-7	44-7	44-7	44-8	44-8	44-8
350.00	51-9	51-9	51-10	51-10	51-10	51-11	51-11	52-0	52-0	52-0
375.00	59-8	59-8	59-9	59-9	59-10	59-10	59-10	59-11	59-11	59-11
400.00	68-2	68-3	68-3	68-3	68-4	68-4	68-5	68-5	68-6	68-6
425.00	77-4	77-4	77-5	77-5	77-6	77-6	77-7	77-7	77-8	77-9
450.00	87-1	87-2	87-2	87-3	87-4	87-4	87-5	87-5	87-6	87-7
475.00	97-7	97-7	97-8	97-9	97-9	97-10	97-11	97-11	98-0	98-1
500.00	108-8	108-9	108-10	108-10	108-11	109-0	109-1	109-2	109-2	109-3

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SHEET 62 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.62
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING									
		3/0 RTS TRIPLEX TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	1.00G	12	0	4.593	78.97	2000	78.97	2000*
0	0	0	0	0.629	78.30	276	78.25	276
30	0	0	0	0.629	78.45	275	78.41	276
40	0	0	0	0.629	78.51	275	78.46	275
50	0	0	0	0.629	78.56	275	78.51	275
60	0	0	0	0.629	78.61	275	78.57	275
70	0	0	0	0.629	78.66	275	78.62	275
80	0	0	0	0.629	78.71	275	78.67	275
90	0	0	0	0.629	78.76	275	78.72	275
100	0	0	0	0.629	78.81	274	78.77	274
110	0	0	0	0.629	78.86	274	78.82	274
120	0	0	0	0.629	78.91	274	78.87	274
130	0	0	0	0.629	78.95	274	78.91	274
167	0	0	0	0.629	79.13	273	79.08	274
212	0	0	0	0.629	79.33	273	79.29	273
* Design Condition								

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>66 OF 215</p> </div>	Indicates Latest Revision	Completely Revised	New Page	Information Removed	<div style="text-align: center;"> <p>OH822.66</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING</p> <p>3/0 RTS TRIPLEX TENSION 2000 LBS</p> </div>				

Completely Revised

 New Page

OH822.66

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
3/0 RTS TRIPLEX TENSION 2000 LBS

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-3	1-3	1-4	1-4	1-5	1-5	1-5	1-6	1-6	1-6
100.00	2-3	2-3	2-4	2-5	2-5	2-6	2-7	2-7	2-8	2-9
125.00	3-6	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3
150.00	5-0	5-2	5-3	5-5	5-6	5-8	5-9	5-11	6-0	6-2
175.00	6-9	7-0	7-2	7-4	7-6	7-9	7-11	8-1	8-3	8-4
200.00	8-11	9-1	9-4	9-7	9-10	10-1	10-4	10-6	10-9	10-11

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-3	1-4	1-4	1-4	1-5	1-5	1-6	1-6	1-6	1-7
100.00	2-3	2-4	2-5	2-5	2-6	2-7	2-7	2-8	2-9	2-9
125.00	3-7	3-8	3-9	3-10	3-11	4-0	4-1	4-2	4-3	4-4
150.00	5-1	5-3	5-5	5-6	5-8	5-9	5-11	6-0	6-1	6-3
175.00	6-11	7-2	7-4	7-6	7-8	7-10	8-0	8-2	8-4	8-6
200.00	9-1	9-4	9-7	9-10	10-0	10-3	10-6	10-8	10-11	11-1

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SHEET 67 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH822.67
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span:	300.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-6	6-6	6-6	6-6	6-6	6-6	6-6	6-7	6-7	6-7
175.00	8-10	8-10	8-10	8-10	8-10	8-11	8-11	8-11	8-11	8-11
200.00	11-6	11-6	11-7	11-7	11-7	11-7	11-8	11-8	11-8	11-9
225.00	14-7	14-7	14-8	14-8	14-8	14-9	14-9	14-9	14-10	14-10
250.00	18-0	18-1	18-1	18-2	18-2	18-2	18-3	18-3	18-4	18-4
275.00	21-10	21-11	21-11	22-0	22-0	22-1	22-1	22-2	22-2	22-3
300.00	26-0	26-1	26-2	26-2	26-3	26-3	26-4	26-5	26-5	26-6
325.00	30-7	30-8	30-9	30-9	30-10	30-11	31-0	31-0	31-1	31-2
350.00	35-7	35-7	35-8	35-9	35-10	35-11	36-0	36-1	36-2	36-2
375.00	40-11	41-0	41-1	41-2	41-3	41-4	41-5	41-6	41-7	41-8

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-6	6-6	6-6	6-6	6-6	6-6	6-7	6-7	6-7	6-7
175.00	8-10	8-10	8-10	8-10	8-11	8-11	8-11	8-11	8-11	9-0
200.00	11-6	11-7	11-7	11-7	11-7	11-8	11-8	11-8	11-8	11-9
225.00	14-7	14-8	14-8	14-8	14-9	14-9	14-9	14-10	14-10	14-10
250.00	18-1	18-1	18-1	18-2	18-2	18-3	18-3	18-4	18-4	18-4
275.00	21-10	21-11	22-0	22-0	22-1	22-1	22-2	22-2	22-3	22-3
300.00	26-1	26-1	26-2	26-3	26-3	26-4	26-5	26-5	26-6	26-6
325.00	30-8	30-9	30-9	30-10	30-11	30-11	31-0	31-1	31-2	31-2
350.00	35-7	35-8	35-9	35-10	35-11	36-0	36-1	36-1	36-2	36-3
375.00	41-0	41-1	41-2	41-3	41-4	41-5	41-6	41-6	41-7	41-8

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 69 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH822.69
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 300' RULING SPAN SDG&E EXTRA HEAVY LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-10	11-10	11-10	11-11	11-11	11-11	11-11	11-11	11-11	11-11
225.00	15-0	15-0	15-0	15-1	15-1	15-1	15-1	15-1	15-2	15-2
250.00	18-7	18-7	18-7	18-7	18-8	18-8	18-8	18-8	18-9	18-9
275.00	22-6	22-6	22-6	22-7	22-7	22-7	22-8	22-8	22-8	22-8
300.00	26-10	26-10	26-10	26-11	26-11	26-11	27-0	27-0	27-0	27-1
325.00	31-6	31-7	31-7	31-7	31-8	31-8	31-9	31-9	31-9	31-10
350.00	36-7	36-8	36-8	36-9	36-9	36-10	36-10	36-11	36-11	37-0
375.00	42-1	42-2	42-3	42-3	42-4	42-4	42-5	42-5	42-6	42-6
400.00	48-0	48-1	48-2	48-2	48-3	48-4	48-4	48-5	48-5	48-6
425.00	54-4	54-5	54-6	54-6	54-7	54-8	54-9	54-9	54-10	54-11
450.00	61-1	61-2	61-3	61-4	61-4	61-5	61-6	61-7	61-8	61-8
475.00	68-3	68-4	68-5	68-6	68-7	68-8	68-8	68-9	68-10	68-11
500.00	75-10	75-11	76-0	76-1	76-2	76-3	76-4	76-5	76-6	76-7


Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-10	11-10	11-11	11-11	11-11	11-11	11-11	11-11	11-11	12-0
225.00	15-0	15-0	15-1	15-1	15-1	15-1	15-1	15-2	15-2	15-2
250.00	18-7	18-7	18-7	18-8	18-8	18-8	18-8	18-8	18-9	18-9
275.00	22-6	22-6	22-7	22-7	22-7	22-7	22-8	22-8	22-8	22-9
300.00	26-10	26-10	26-11	26-11	26-11	27-0	27-0	27-0	27-1	27-1
325.00	31-7	31-7	31-7	31-8	31-8	31-9	31-9	31-9	31-10	31-10
350.00	36-8	36-8	36-9	36-9	36-10	36-10	36-11	36-11	37-0	37-0
375.00	42-2	42-3	42-3	42-4	42-4	42-5	42-5	42-6	42-6	42-7
400.00	48-1	48-2	48-2	48-3	48-3	48-4	48-5	48-5	48-6	48-7
425.00	54-5	54-6	54-6	54-7	54-8	54-8	54-9	54-10	54-11	54-11
450.00	61-2	61-3	61-3	61-4	61-5	61-6	61-7	61-7	61-8	61-9
475.00	68-4	68-5	68-6	68-7	68-7	68-8	68-9	68-10	68-11	69-0
500.00	75-11	76-0	76-1	76-2	76-3	76-4	76-5	76-6	76-7	76-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 70 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.70
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	19-2	19-2	19-2	19-2	19-2	19-2	19-3	19-3	19-3	19-3
275.00	23-2	23-3	23-3	23-3	23-3	23-3	23-3	23-4	23-4	23-4
300.00	27-8	27-8	27-8	27-9	27-9	27-9	27-9	27-9	27-10	27-10
325.00	32-6	32-7	32-7	32-7	32-7	32-8	32-8	32-8	32-8	32-9
350.00	37-10	37-10	37-10	37-10	37-11	37-11	37-11	38-0	38-0	38-0
375.00	43-6	43-6	43-7	43-7	43-7	43-8	43-8	43-8	43-9	43-9
400.00	49-7	49-8	49-8	49-8	49-9	49-9	49-10	49-10	49-10	49-11
425.00	56-2	56-2	56-2	56-3	56-3	56-4	56-4	56-5	56-5	56-6
450.00	63-1	63-2	63-2	63-3	63-3	63-4	63-4	63-5	63-5	63-6
475.00	70-6	70-7	70-7	70-8	70-8	70-9	70-9	70-10	70-11	70-11
500.00	78-4	78-5	78-6	78-6	78-7	78-7	78-8	78-9	78-9	78-10
525.00	86-8	86-9	86-9	86-10	86-11	86-11	87-0	87-1	87-1	87-2
550.00	95-5	95-6	95-7	95-7	95-8	95-9	95-10	95-10	95-11	96-0
575.00	104-8	104-9	104-10	104-10	104-11	105-0	105-1	105-2	105-3	105-3
600.00	114-4	114-5	114-6	114-7	114-8	114-9	114-10	114-11	115-0	115-1
625.00	124-7	124-8	124-9	124-10	124-11	125-0	125-1	125-2	125-3	125-4

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<div style="text-align: center;"> <p>SHEET</p> <p>71 OF 215</p> </div>	Indicates Latest Revision	Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH822.71</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING</p> <p>3/0 RTS TRIPLEX TENSION 2000 LBS</p> </div>					

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 72 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.72
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING 3/0 RTS TRIPLEX TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11
100.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8
125.00	1-6	1-8	1-9	1-11	2-0	2-2	2-3	2-5	2-6	2-8
150.00	2-3	2-5	2-7	2-9	2-11	3-1	3-4	3-6	3-8	3-10
175.00	3-0	3-3	3-6	3-9	4-0	4-3	4-6	4-9	5-0	5-2
200.00	3-11	4-3	4-7	4-11	5-3	5-7	5-10	6-2	6-6	6-10

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0
100.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-8
125.00	1-7	1-8	1-10	1-11	2-1	2-2	2-4	2-5	2-7	2-8
150.00	2-3	2-5	2-7	2-9	3-0	3-2	3-4	3-6	3-8	3-10
175.00	3-1	3-3	3-6	3-9	4-0	4-3	4-6	4-9	5-0	5-3
200.00	4-0	4-4	4-7	4-11	5-3	5-7	5-11	6-3	6-6	6-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 75 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH822.75
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING 3/0 RTS TRIPLEX TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-4	1-5	1-5	1-5	1-6	1-6	1-6	1-6	1-7	1-7
125.00	2-2	2-2	2-3	2-3	2-4	2-4	2-4	2-5	2-5	2-6
150.00	3-1	3-2	3-2	3-3	3-4	3-4	3-5	3-6	3-6	3-7
175.00	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-9	4-10
200.00	5-6	5-7	5-8	5-9	5-11	6-0	6-1	6-2	6-3	6-4
225.00	6-11	7-1	7-2	7-4	7-5	7-7	7-8	7-10	7-11	8-0
250.00	8-7	8-9	8-11	9-1	9-2	9-4	9-6	9-8	9-9	9-11

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-5	1-5	1-5	1-5	1-6	1-6	1-6	1-7	1-7	1-7
125.00	2-2	2-2	2-3	2-3	2-4	2-4	2-4	2-5	2-5	2-6
150.00	3-1	3-2	3-2	3-3	3-4	3-4	3-5	3-6	3-6	3-7
175.00	4-3	4-4	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-10
200.00	5-6	5-7	5-8	5-10	5-11	6-0	6-1	6-2	6-3	6-4
225.00	7-0	7-1	7-3	7-4	7-6	7-7	7-8	7-10	7-11	8-1
250.00	8-7	8-9	8-11	9-1	9-3	9-4	9-6	9-8	9-10	9-11

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C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D							
SHEET 76 OF 215		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH822.76
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING 3/0 RTS TRIPLEX TENSION 1000 LBS											

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-4	3-4	3-4	3-4	3-5	3-5	3-5	3-6	3-6	3-6
175.00	4-6	4-6	4-7	4-7	4-8	4-8	4-8	4-9	4-9	4-9
200.00	5-10	5-11	6-0	6-0	6-1	6-1	6-2	6-2	6-3	6-3
225.00	7-5	7-6	7-7	7-7	7-8	7-9	7-9	7-10	7-10	7-11
250.00	9-2	9-3	9-4	9-5	9-5	9-6	9-7	9-8	9-9	9-9
275.00	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-10
300.00	13-3	13-4	13-5	13-6	13-7	13-9	13-10	13-11	14-0	14-1
325.00	15-6	15-8	15-9	15-11	16-0	16-1	16-3	16-4	16-5	16-7
350.00	18-0	18-2	18-4	18-5	18-7	18-8	18-10	18-11	19-1	19-3
375.00	20-8	20-10	21-0	21-2	21-4	21-6	21-7	21-9	21-11	22-1

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-4	3-4	3-4	3-5	3-5	3-5	3-5	3-6	3-6	3-6
175.00	4-6	4-6	4-7	4-7	4-8	4-8	4-8	4-9	4-9	4-10
200.00	5-11	5-11	6-0	6-0	6-1	6-1	6-2	6-2	6-3	6-3
225.00	7-5	7-6	7-7	7-7	7-8	7-9	7-9	7-10	7-11	7-11
250.00	9-2	9-3	9-4	9-5	9-6	9-6	9-7	9-8	9-9	9-9
275.00	11-2	11-3	11-4	11-5	11-5	11-6	11-7	11-8	11-9	11-10
300.00	13-3	13-4	13-5	13-7	13-8	13-9	13-10	13-11	14-0	14-1
325.00	15-7	15-8	15-10	15-11	16-0	16-2	16-3	16-4	16-6	16-7
350.00	18-1	18-2	18-4	18-5	18-7	18-9	18-10	19-0	19-1	19-3
375.00	20-9	20-11	21-1	21-2	21-4	21-6	21-8	21-10	21-11	22-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 77 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH822.77
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING 3/0 RTS TRIPLEX TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-0	6-1	6-1	6-1	6-2	6-2	6-2	6-2	6-3	6-3
225.00	7-8	7-8	7-8	7-9	7-9	7-9	7-10	7-10	7-11	7-11
250.00	9-5	9-6	9-6	9-7	9-7	9-7	9-8	9-8	9-9	9-9
275.00	11-5	11-6	11-6	11-7	11-7	11-8	11-8	11-9	11-9	11-10
300.00	13-7	13-8	13-8	13-9	13-10	13-10	13-11	14-0	14-0	14-1
325.00	15-11	16-0	16-1	16-2	16-3	16-3	16-4	16-5	16-6	16-6
350.00	18-6	18-7	18-8	18-9	18-10	18-11	19-0	19-0	19-1	19-2
375.00	21-3	21-4	21-5	21-6	21-7	21-8	21-9	21-10	21-11	22-0
400.00	24-3	24-4	24-5	24-6	24-7	24-8	24-10	24-11	25-0	25-1
425.00	27-4	27-5	27-7	27-8	27-9	27-11	28-0	28-1	28-3	28-4
450.00	30-8	30-10	30-11	31-1	31-2	31-4	31-5	31-7	31-8	31-10
475.00	34-2	34-4	34-6	34-7	34-9	34-11	35-0	35-2	35-4	35-5
500.00	37-11	38-1	38-3	38-5	38-7	38-8	38-10	39-0	39-2	39-4

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-0	6-1	6-1	6-1	6-2	6-2	6-2	6-2	6-3	6-3
225.00	7-8	7-8	7-8	7-9	7-9	7-10	7-10	7-10	7-11	7-11
250.00	9-5	9-6	9-6	9-7	9-7	9-8	9-8	9-8	9-9	9-9
275.00	11-5	11-6	11-6	11-7	11-7	11-8	11-8	11-9	11-9	11-10
300.00	13-7	13-8	13-9	13-9	13-10	13-10	13-11	14-0	14-0	14-1
325.00	16-0	16-0	16-1	16-2	16-3	16-3	16-4	16-5	16-6	16-6
350.00	18-6	18-7	18-8	18-9	18-10	18-11	19-0	19-1	19-1	19-2
375.00	21-3	21-4	21-5	21-6	21-8	21-9	21-10	21-11	22-0	22-1
400.00	24-3	24-4	24-5	24-6	24-7	24-9	24-10	24-11	25-0	25-1
425.00	27-5	27-6	27-7	27-8	27-10	27-11	28-0	28-2	28-3	28-4
450.00	30-9	30-10	30-11	31-1	31-2	31-4	31-5	31-7	31-8	31-10
475.00	34-3	34-5	34-6	34-8	34-9	34-11	35-1	35-2	35-4	35-6
500.00	38-0	38-1	38-3	38-5	38-7	38-9	38-11	39-0	39-2	39-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>78 OF 215</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.78
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING 3/0 RTS TRIPLEX TENSION 1000 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.225	4.09	1500	4.09	1500*
20	0	0	0	0.629	3.01	1045	2.98	1055
30	0	0	0	0.629	3.14	1002	3.11	1012
40	0	0	0	0.629	3.27	963	3.24	972
50	0	0	0	0.629	3.4	927	3.37	935
60	0	0	0	0.629	3.52	893	3.49	901
70	0	0	0	0.629	3.65	863	3.62	870
80	0	0	0	0.629	3.78	834	3.75	841
90	0	0	0	0.629	3.9	808	3.87	814
100	0	0	0	0.629	4.02	784	3.99	789
110	0	0	0	0.629	4.14	761	4.11	766
120	0	0	0	0.629	4.26	740	4.23	744
130	0	0	0	0.629	4.37	720	4.35	724
167	0	0	0	0.629	4.79	658	4.75	663
212	0	0	0	0.629	5.22	604	5.18	608
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 80 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH822.80
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS										

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.225	16.44	1500	16.44	1500*
20	0	0	0	0.629	15.23	831	15.18	833
30	0	0	0	0.629	15.37	823	15.33	826
40	0	0	0	0.629	15.52	816	15.47	818
50	0	0	0	0.629	15.66	808	15.62	810
60	0	0	0	0.629	15.8	801	15.76	803
70	0	0	0	0.629	15.94	794	15.91	796
80	0	0	0	0.629	16.09	787	16.05	789
90	0	0	0	0.629	16.23	780	16.19	782
100	0	0	0	0.629	16.36	774	16.33	775
110	0	0	0	0.629	16.5	768	16.47	769
120	0	0	0	0.629	16.64	761	16.61	763
130	0	0	0	0.629	16.77	755	16.75	756
167	0	0	0	0.629	17.27	734	17.24	735
212	0	0	0	0.629	17.81	712	17.77	713

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<div>SHEET</div> <div>81 OF 215</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH822.81
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	1.225	25.79	1500	25.79	1500*
20	0	0	0	0.629	24.57	808	24.52	809
30	0	0	0	0.629	24.71	803	24.67	805
40	0	0	0	0.629	24.86	799	24.81	800
50	0	0	0	0.629	25	794	24.96	795
60	0	0	0	0.629	25.14	790	25.1	791
70	0	0	0	0.629	25.29	785	25.25	786
80	0	0	0	0.629	25.43	781	25.39	782
90	0	0	0	0.629	25.57	777	25.54	778
100	0	0	0	0.629	25.71	773	25.68	774
110	0	0	0	0.629	25.85	768	25.82	769
120	0	0	0	0.629	25.99	764	25.96	765
130	0	0	0	0.629	26.13	760	26.11	761
167	0	0	0	0.629	26.64	746	26.61	747
212	0	0	0	0.629	27.2	731	27.16	732

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>82 OF 215</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH822.82</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING</p> <p>3/0 RTS TRIPLEX TENSION 1500 LBS</p> </div>				

Completely Revised

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Information Removed

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.82

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7
100.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-0
125.00	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-7
150.00	1-2	1-3	1-4	1-5	1-7	1-8	1-10	2-0	2-2	2-4
175.00	1-7	1-8	1-10	1-11	2-1	2-4	2-6	2-9	2-11	3-2
200.00	2-0	2-2	2-4	2-7	2-9	3-0	3-3	3-6	3-10	4-2

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7
100.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1
125.00	0-10	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-6	1-8
150.00	1-2	1-3	1-4	1-5	1-7	1-9	1-10	2-0	2-2	2-4
175.00	1-7	1-8	1-10	2-0	2-2	2-4	2-6	2-9	3-0	3-3
200.00	2-0	2-2	2-4	2-7	2-10	3-1	3-4	3-7	3-11	4-3

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SHEET 83 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH822.83
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-0	2-0	2-1	2-1	2-2	2-2	2-2	2-3	2-3	2-4
175.00	2-9	2-9	2-10	2-10	2-11	3-0	3-0	3-1	3-1	3-2
200.00	3-7	3-7	3-8	3-9	3-10	3-10	3-11	4-0	4-1	4-1
225.00	4-6	4-7	4-8	4-9	4-10	4-11	5-0	5-1	5-1	5-2
250.00	5-7	5-8	5-9	5-10	5-11	6-0	6-2	6-3	6-4	6-5
275.00	6-9	6-10	6-11	7-1	7-2	7-4	7-5	7-7	7-8	7-9
300.00	8-0	8-2	8-3	8-5	8-7	8-8	8-10	9-0	9-1	9-3
325.00	9-5	9-7	9-9	9-11	10-1	10-3	10-5	10-6	10-8	10-10
350.00	10-11	11-1	11-3	11-6	11-8	11-10	12-0	12-3	12-5	12-7
375.00	12-6	12-9	12-11	13-2	13-5	13-7	13-10	14-0	14-3	14-6

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-0	2-1	2-1	2-1	2-2	2-2	2-3	2-3	2-3	2-4
175.00	2-9	2-9	2-10	2-11	2-11	3-0	3-0	3-1	3-1	3-2
200.00	3-7	3-8	3-8	3-9	3-10	3-11	3-11	4-0	4-1	4-1
225.00	4-6	4-7	4-8	4-9	4-10	4-11	5-0	5-1	5-2	5-3
250.00	5-7	5-8	5-9	5-10	6-0	6-1	6-2	6-3	6-4	6-5
275.00	6-9	6-10	7-0	7-1	7-3	7-4	7-5	7-7	7-8	7-10
300.00	8-0	8-2	8-4	8-6	8-7	8-9	8-11	9-0	9-2	9-3
325.00	9-5	9-7	9-9	9-11	10-1	10-3	10-5	10-7	10-9	10-11
350.00	10-11	11-2	11-4	11-6	11-9	11-11	12-1	12-3	12-5	12-8
375.00	12-7	12-9	13-0	13-3	13-5	13-8	13-11	14-1	14-4	14-6

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SHEET 85 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH822.85
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS					

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>88 OF 215</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH822.88
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS									

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 89 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.89
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4
100.00	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8
125.00	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11	0-11	1-0
150.00	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-6
175.00	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-10	2-0
200.00	1-5	1-6	1-7	1-9	1-10	1-11	2-1	2-3	2-5	2-8

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-2	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5
100.00	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8
125.00	0-7	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1
150.00	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-7
175.00	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-10	2-0	2-2
200.00	1-6	1-7	1-8	1-9	1-11	2-0	2-2	2-4	2-7	2-10

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<div style="text-align: center;"> <p>SHEET</p> <p>91 OF 215</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH822.91</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING</p> <p>3/0 RTS TRIPLEX TENSION 2000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9
125.00	0-9	0-9	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-1
150.00	1-0	1-1	1-2	1-2	1-3	1-4	1-5	1-5	1-6	1-7
175.00	1-5	1-6	1-6	1-7	1-8	1-10	1-11	2-0	2-1	2-2
200.00	1-10	1-11	2-0	2-1	2-3	2-4	2-6	2-7	2-8	2-10
225.00	2-4	2-5	2-7	2-8	2-10	3-0	3-1	3-3	3-5	3-7
250.00	2-10	3-0	3-2	3-4	3-6	3-8	3-10	4-0	4-3	4-5

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-5	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9
125.00	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-1
150.00	1-0	1-1	1-2	1-2	1-3	1-4	1-5	1-6	1-7	1-7
175.00	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2
200.00	1-10	1-11	2-0	2-2	2-3	2-5	2-6	2-7	2-9	2-11
225.00	2-4	2-5	2-7	2-9	2-10	3-0	3-2	3-4	3-6	3-8
250.00	2-10	3-0	3-2	3-4	3-6	3-9	3-11	4-1	4-4	4-6

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 92 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.92
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-7	1-7	1-8
175.00	1-9	1-10	1-10	1-11	2-0	2-0	2-1	2-2	2-2	2-3
200.00	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-10	2-11
225.00	2-11	3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-8	3-9
250.00	3-7	3-8	3-10	3-11	4-0	4-2	4-3	4-4	4-6	4-7
275.00	4-4	4-5	4-7	4-9	4-10	5-0	5-2	5-3	5-5	5-7
300.00	5-2	5-4	5-6	5-8	5-10	6-0	6-2	6-3	6-5	6-7
325.00	6-0	6-3	6-5	6-7	6-10	7-0	7-2	7-5	7-7	7-9
350.00	7-0	7-3	7-5	7-8	7-11	8-1	8-4	8-7	8-9	9-0
375.00	8-0	8-3	8-6	8-10	9-1	9-4	9-7	9-10	10-1	10-4

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	1-4	1-4	1-5	1-5	1-6	1-6	1-7	1-7	1-8	1-8
175.00	1-9	1-10	1-11	1-11	2-0	2-1	2-1	2-2	2-3	2-3
200.00	2-4	2-5	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0
225.00	2-11	3-0	3-1	3-2	3-4	3-5	3-6	3-7	3-8	3-9
250.00	3-7	3-9	3-10	3-11	4-1	4-2	4-4	4-5	4-6	4-8
275.00	4-4	4-6	4-8	4-9	4-11	5-1	5-2	5-4	5-6	5-7
300.00	5-2	5-4	5-6	5-8	5-10	6-0	6-2	6-4	6-6	6-8
325.00	6-1	6-3	6-6	6-8	6-10	7-1	7-3	7-5	7-8	7-10
350.00	7-1	7-3	7-6	7-9	8-0	8-2	8-5	8-8	8-10	9-1
375.00	8-1	8-4	8-7	8-11	9-2	9-5	9-8	9-11	10-2	10-5

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SHEET 93 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH822.93
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-7	2-8	2-8	2-9	2-9	2-10	2-10	2-11	2-11	3-0
225.00	3-3	3-4	3-5	3-5	3-6	3-7	3-7	3-8	3-9	3-9
250.00	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-6	4-7	4-8
275.00	4-11	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
300.00	5-10	5-11	6-0	6-2	6-3	6-4	6-5	6-6	6-8	6-9
325.00	6-10	6-11	7-1	7-2	7-4	7-5	7-7	7-8	7-9	7-11
350.00	7-11	8-1	8-2	8-4	8-6	8-7	8-9	8-11	9-0	9-2
375.00	9-1	9-3	9-5	9-7	9-9	9-11	10-1	10-3	10-5	10-6
400.00	10-4	10-6	10-9	10-11	11-1	11-3	11-5	11-8	11-10	12-0
425.00	11-8	11-11	12-1	12-4	12-6	12-9	12-11	13-2	13-4	13-6
450.00	13-1	13-4	13-7	13-10	14-0	14-3	14-6	14-9	14-11	15-2
475.00	14-7	14-10	15-1	15-5	15-8	15-11	16-2	16-5	16-8	16-11
500.00	16-2	16-6	16-9	17-1	17-4	17-7	17-11	18-2	18-6	18-9

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-7	2-8	2-8	2-9	2-9	2-10	2-11	2-11	3-0	3-0
225.00	3-4	3-4	3-5	3-6	3-6	3-7	3-8	3-8	3-9	3-10
250.00	4-1	4-2	4-3	4-3	4-4	4-5	4-6	4-7	4-8	4-8
275.00	4-11	5-0	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8
300.00	5-10	6-0	6-1	6-2	6-3	6-4	6-6	6-7	6-8	6-9
325.00	6-10	7-0	7-1	7-3	7-4	7-6	7-7	7-9	7-10	7-11
350.00	8-0	8-1	8-3	8-5	8-6	8-8	8-10	8-11	9-1	9-3
375.00	9-2	9-4	9-6	9-8	9-10	10-0	10-1	10-3	10-5	10-7
400.00	10-5	10-7	10-9	11-0	11-2	11-4	11-6	11-8	11-10	12-1
425.00	11-9	12-0	12-2	12-5	12-7	12-10	13-0	13-2	13-5	13-7
450.00	13-2	13-5	13-8	13-11	14-1	14-4	14-7	14-10	15-0	15-3
475.00	14-8	14-11	15-3	15-6	15-9	16-0	16-3	16-6	16-9	17-0
500.00	16-3	16-7	16-10	17-2	17-5	17-9	18-0	18-3	18-7	18-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 94 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH822.94
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS										

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>96 OF 215</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH822.96
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.225	39.23	1000	39.23	1000*
0	0	0	0	0.629	38.68	520	38.65	521
30	0	0	0	0.629	38.97	517	38.94	517
40	0	0	0	0.629	39.06	516	39.04	516
50	0	0	0	0.629	39.16	514	39.14	515
60	0	0	0	0.629	39.25	513	39.24	513
70	0	0	0	0.629	39.35	512	39.33	512
80	0	0	0	0.629	39.44	511	39.43	511
90	0	0	0	0.629	39.54	510	39.53	510
100	0	0	0	0.629	39.63	508	39.62	509
110	0	0	0	0.629	39.73	507	39.72	507
120	0	0	0	0.629	39.82	506	39.82	506
130	0	0	0	0.629	39.91	505	39.91	505
167	0	0	0	0.629	40.24	501	40.22	501
212	0	0	0	0.629	40.63	497	40.61	497

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

Indicates Latest Revision		Completely Revised	X	New Page		Information Removed
SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING						
3/0 RTS TRIPLEX TENSION 1000 LBS						

OH822.98

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-4	3-5	3-5	3-5	3-6	3-6	3-6	3-6	3-7	3-7
175.00	4-7	4-8	4-8	4-8	4-9	4-9	4-9	4-10	4-10	4-11
200.00	6-0	6-1	6-1	6-2	6-2	6-3	6-3	6-4	6-4	6-5
225.00	7-7	7-8	7-8	7-9	7-10	7-10	7-11	8-0	8-0	8-1
250.00	9-5	9-5	9-6	9-7	9-8	9-9	9-9	9-10	9-11	10-0
275.00	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11	12-0	12-1
300.00	13-6	13-7	13-9	13-10	13-11	14-0	14-1	14-2	14-3	14-5
325.00	15-11	16-0	16-1	16-3	16-4	16-5	16-7	16-8	16-9	16-11
350.00	18-5	18-7	18-8	18-10	18-11	19-1	19-3	19-4	19-6	19-7
375.00	21-2	21-4	21-6	21-7	21-9	21-11	22-1	22-3	22-4	22-6

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-5	3-5	3-5	3-5	3-6	3-6	3-6	3-7	3-7	3-7
175.00	4-7	4-8	4-8	4-8	4-9	4-9	4-10	4-10	4-10	4-11
200.00	6-0	6-1	6-1	6-2	6-2	6-3	6-3	6-4	6-4	6-5
225.00	7-7	7-8	7-9	7-9	7-10	7-11	7-11	8-0	8-0	8-1
250.00	9-5	9-6	9-6	9-7	9-8	9-9	9-9	9-10	9-11	10-0
275.00	11-5	11-5	11-6	11-7	11-8	11-9	11-10	11-11	12-0	12-1
300.00	13-7	13-8	13-9	13-10	13-11	14-0	14-1	14-2	14-4	14-5
325.00	15-11	16-0	16-2	16-3	16-4	16-6	16-7	16-8	16-9	16-11
350.00	18-5	18-7	18-9	18-10	19-0	19-1	19-3	19-4	19-6	19-7
375.00	21-2	21-4	21-6	21-8	21-10	21-11	22-1	22-3	22-5	22-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>101 OF 215</h2> </div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.101
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-1	6-2	6-2	6-2	6-2	6-3	6-3	6-3	6-4	6-4
225.00	7-9	7-9	7-9	7-10	7-10	7-11	7-11	7-11	8-0	8-0
250.00	9-7	9-7	9-7	9-8	9-8	9-9	9-9	9-10	9-10	9-11
275.00	11-7	11-7	11-8	11-8	11-9	11-9	11-10	11-10	11-11	11-11
300.00	13-9	13-10	13-10	13-11	14-0	14-0	14-1	14-2	14-2	14-3
325.00	16-2	16-3	16-3	16-4	16-5	16-6	16-6	16-7	16-8	16-9
350.00	18-9	18-10	18-11	19-0	19-0	19-1	19-2	19-3	19-4	19-5
375.00	21-6	21-7	21-8	21-9	21-10	21-11	22-0	22-1	22-2	22-3
400.00	24-6	24-7	24-8	24-10	24-11	25-0	25-1	25-2	25-3	25-4
425.00	27-8	27-9	27-11	28-0	28-1	28-3	28-4	28-5	28-7	28-8
450.00	31-1	31-2	31-4	31-5	31-7	31-8	31-9	31-11	32-0	32-2
475.00	34-7	34-9	34-11	35-0	35-2	35-4	35-5	35-7	35-9	35-10
500.00	38-5	38-7	38-8	38-10	39-0	39-2	39-4	39-5	39-7	39-9

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-1	6-2	6-2	6-2	6-2	6-3	6-3	6-3	6-4	6-4
225.00	7-9	7-9	7-10	7-10	7-10	7-11	7-11	7-11	8-0	8-0
250.00	9-7	9-7	9-8	9-8	9-8	9-9	9-9	9-10	9-10	9-11
275.00	11-7	11-7	11-8	11-8	11-9	11-9	11-10	11-10	11-11	12-0
300.00	13-9	13-10	13-10	13-11	14-0	14-0	14-1	14-2	14-2	14-3
325.00	16-2	16-3	16-3	16-4	16-5	16-6	16-6	16-7	16-8	16-9
350.00	18-9	18-10	18-11	19-0	19-1	19-1	19-2	19-3	19-4	19-5
375.00	21-6	21-8	21-9	21-10	21-11	22-0	22-1	22-2	22-2	22-3
400.00	24-6	24-7	24-9	24-10	24-11	25-0	25-1	25-2	25-3	25-5
425.00	27-8	27-10	27-11	28-0	28-2	28-3	28-4	28-5	28-7	28-8
450.00	31-1	31-2	31-4	31-5	31-7	31-8	31-10	31-11	32-1	32-2
475.00	34-8	34-9	34-11	35-1	35-2	35-4	35-6	35-7	35-9	35-10
500.00	38-5	38-7	38-9	38-11	39-0	39-2	39-4	39-6	39-7	39-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 102 OF 215	Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH822.102
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
	STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1000 LBS											

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 104 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.104
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS									

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.225	9.22	1500	9.22	1500*
0	0	0	0	0.629	8.17	868	8.13	873
30	0	0	0	0.629	8.6	826	8.56	830
40	0	0	0	0.629	8.74	813	8.7	817
50	0	0	0	0.629	8.88	800	8.83	804
60	0	0	0	0.629	9.01	788	8.97	792
70	0	0	0	0.629	9.14	777	9.11	780
80	0	0	0	0.629	9.28	766	9.24	769
90	0	0	0	0.629	9.41	755	9.37	758
100	0	0	0	0.629	9.54	745	9.51	747
110	0	0	0	0.629	9.67	735	9.64	737
120	0	0	0	0.629	9.79	726	9.77	728
130	0	0	0	0.629	9.92	716	9.9	718
167	0	0	0	0.629	10.38	685	10.34	688
212	0	0	0	0.629	10.86	655	10.82	657

* Design Condition

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.225	16.44	1500	16.44	1500*
0	0	0	0	0.629	15.37	823	15.32	826
30	0	0	0	0.629	15.8	801	15.76	803
40	0	0	0	0.629	15.94	794	15.9	796
50	0	0	0	0.629	16.09	787	16.04	789
60	0	0	0	0.629	16.23	780	16.18	782
70	0	0	0	0.629	16.36	774	16.32	776
80	0	0	0	0.629	16.5	768	16.46	769
90	0	0	0	0.629	16.64	761	16.6	763
100	0	0	0	0.629	16.77	755	16.74	757
110	0	0	0	0.629	16.91	749	16.88	751
120	0	0	0	0.629	17.04	744	17.01	745
130	0	0	0	0.629	17.18	738	17.15	739
167	0	0	0	0.629	17.66	718	17.63	719
212	0	0	0	0.629	18.19	697	18.15	699

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D							
SHEET 105 OF 215		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH822.105
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS											

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	1.225	25.79	1500	25.79	1500*
0	0	0	0	0.629	24.71	803	24.66	805
30	0	0	0	0.629	25.14	790	25.1	791
40	0	0	0	0.629	25.29	785	25.24	787
50	0	0	0	0.629	25.43	781	25.38	782
60	0	0	0	0.629	25.57	777	25.53	778
70	0	0	0	0.629	25.71	773	25.67	774
80	0	0	0	0.629	25.85	768	25.81	770
90	0	0	0	0.629	25.99	764	25.95	766
100	0	0	0	0.629	26.13	760	26.1	761
110	0	0	0	0.629	26.27	757	26.24	757
120	0	0	0	0.629	26.41	753	26.38	754
130	0	0	0	0.629	26.54	749	26.52	750
167	0	0	0	0.629	27.04	735	27.01	736
212	0	0	0	0.629	27.6	721	27.56	722

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>106 OF 215</p> </div>	Indicates Latest Revision	Completely Revised	New Page	Information Removed	<div style="text-align: center;"> <p>OH822.106</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING</p> <p>3/0 RTS TRIPLEX TENSION 1500 LBS</p> </div>				

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9
100.00	0-8	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-3
125.00	1-0	1-1	1-2	1-3	1-5	1-6	1-7	1-9	1-10	2-0
150.00	1-5	1-7	1-8	1-10	2-0	2-2	2-4	2-6	2-8	2-10
175.00	1-11	2-1	2-3	2-6	2-8	2-11	3-2	3-5	3-8	3-11
200.00	2-7	2-9	3-0	3-3	3-6	3-10	4-2	4-5	4-9	5-1

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9
100.00	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
125.00	1-0	1-1	1-2	1-4	1-5	1-6	1-8	1-9	1-11	2-0
150.00	1-5	1-7	1-9	1-10	2-0	2-2	2-4	2-7	2-9	2-11
175.00	2-0	2-2	2-4	2-6	2-9	3-0	3-3	3-6	3-9	4-0
200.00	2-7	2-10	3-1	3-4	3-7	3-11	4-3	4-7	4-10	5-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 107 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH822.107
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 65MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-10	0-11	0-11	1-0	1-0	1-0	1-1	1-1	1-1
125.00	1-4	1-4	1-5	1-6	1-6	1-7	1-7	1-8	1-8	1-9
150.00	1-11	2-0	2-0	2-1	2-2	2-3	2-4	2-5	2-5	2-6
175.00	2-7	2-8	2-9	2-10	2-11	3-1	3-2	3-3	3-4	3-5
200.00	3-4	3-6	3-7	3-9	3-10	4-0	4-1	4-3	4-4	4-6
225.00	4-3	4-5	4-7	4-9	4-11	5-1	5-2	5-4	5-6	5-8
250.00	5-3	5-5	5-8	5-10	6-0	6-3	6-5	6-7	6-10	7-0

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-10	0-11	0-11	0-11	1-0	1-0	1-0	1-1	1-1	1-1
125.00	1-4	1-5	1-5	1-6	1-6	1-7	1-7	1-8	1-8	1-9
150.00	1-11	2-0	2-1	2-1	2-2	2-3	2-4	2-5	2-6	2-6
175.00	2-7	2-8	2-10	2-11	3-0	3-1	3-2	3-3	3-4	3-5
200.00	3-5	3-6	3-8	3-9	3-11	4-0	4-2	4-3	4-4	4-6
225.00	4-4	4-6	4-7	4-9	4-11	5-1	5-3	5-5	5-6	5-8
250.00	5-4	5-6	5-8	5-11	6-1	6-3	6-6	6-8	6-10	7-0

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 108 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH822.108
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-1	2-2	2-2	2-2	2-3	2-3	2-4	2-4	2-4	2-5
175.00	2-10	2-11	2-11	3-0	3-1	3-1	3-2	3-2	3-3	3-3
200.00	3-9	3-10	3-10	3-11	4-0	4-1	4-1	4-2	4-3	4-3
225.00	4-9	4-10	4-11	5-0	5-1	5-1	5-2	5-3	5-4	5-5
250.00	5-10	5-11	6-0	6-2	6-3	6-4	6-5	6-6	6-7	6-8
275.00	7-1	7-2	7-4	7-5	7-6	7-8	7-9	7-11	8-0	8-1
300.00	8-5	8-7	8-8	8-10	9-0	9-1	9-3	9-4	9-6	9-8
325.00	9-11	10-1	10-2	10-4	10-6	10-8	10-10	11-0	11-2	11-4
350.00	11-6	11-8	11-10	12-0	12-3	12-5	12-7	12-9	12-11	13-1
375.00	13-2	13-5	13-7	13-10	14-0	14-3	14-5	14-8	14-10	15-1

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-1	2-2	2-2	2-3	2-3	2-3	2-4	2-4	2-5	2-5
175.00	2-11	2-11	3-0	3-0	3-1	3-1	3-2	3-2	3-3	3-3
200.00	3-9	3-10	3-11	3-11	4-0	4-1	4-1	4-2	4-3	4-4
225.00	4-9	4-10	4-11	5-0	5-1	5-2	5-3	5-3	5-4	5-5
250.00	5-10	6-0	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-9
275.00	7-1	7-3	7-4	7-5	7-7	7-8	7-10	7-11	8-0	8-1
300.00	8-6	8-7	8-9	8-11	9-0	9-2	9-3	9-5	9-6	9-8
325.00	9-11	10-1	10-3	10-5	10-7	10-9	10-11	11-1	11-2	11-4
350.00	11-6	11-9	11-11	12-1	12-3	12-5	12-8	12-10	13-0	13-2
375.00	13-3	13-5	13-8	13-11	14-1	14-4	14-6	14-9	14-11	15-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 109 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH822.109
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS					

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>112 OF 215</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.112
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS									

* Design Condition* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>113 OF 215</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH822.113	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	1.225	19.25	2000	19.25	2000*
0	0	0	0	0.629	17.5	1128	17.42	1134
30	0	0	0	0.629	18.07	1093	17.99	1098
40	0	0	0	0.629	18.26	1082	18.18	1087
50	0	0	0	0.629	18.45	1071	18.36	1076
60	0	0	0	0.629	18.63	1061	18.55	1066
70	0	0	0	0.629	18.81	1051	18.73	1055
80	0	0	0	0.629	18.99	1041	18.91	1045
90	0	0	0	0.629	19.18	1031	19.1	1035
100	0	0	0	0.629	19.35	1022	19.28	1026
110	0	0	0	0.629	19.53	1013	19.46	1016
120	0	0	0	0.629	19.71	1004	19.64	1007
130	0	0	0	0.629	19.88	995	19.82	998
167	0	0	0	0.629	20.52	964	20.47	967
212	0	0	0	0.629	21.25	932	21.18	935

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>114 OF 215</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH822.114</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING</p> <p>3/0 RTS TRIPLEX TENSION 2000 LBS</p> </div>				

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10
125.00	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-2	1-3
150.00	1-2	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-9	1-10
175.00	1-7	1-8	1-9	1-11	2-0	2-1	2-2	2-3	2-4	2-6
200.00	2-1	2-3	2-4	2-5	2-7	2-8	2-10	2-11	3-1	3-3
225.00	2-8	2-10	2-11	3-1	3-3	3-5	3-7	3-9	3-11	4-1
250.00	3-4	3-6	3-8	3-10	4-0	4-3	4-5	4-7	4-10	5-0

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-9	0-10
125.00	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-3	1-3
150.00	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-9	1-10
175.00	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-4	2-5	2-6
200.00	2-2	2-3	2-5	2-6	2-7	2-9	2-11	3-0	3-2	3-3
225.00	2-9	2-10	3-0	3-2	3-4	3-6	3-8	3-10	4-0	4-2
250.00	3-4	3-6	3-9	3-11	4-1	4-4	4-6	4-8	4-11	5-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 116 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH822.116
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-9	2-9	2-10	2-10	2-11	2-11	3-0	3-0	3-1	3-1
225.00	3-5	3-6	3-7	3-7	3-8	3-9	3-9	3-10	3-11	3-11
250.00	4-3	4-4	4-5	4-6	4-6	4-7	4-8	4-9	4-10	4-11
275.00	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-11
300.00	6-1	6-3	6-4	6-5	6-6	6-8	6-9	6-10	6-11	7-0
325.00	7-2	7-4	7-5	7-7	7-8	7-9	7-11	8-0	8-2	8-3
350.00	8-4	8-6	8-7	8-9	8-11	9-0	9-2	9-4	9-5	9-7
375.00	9-7	9-9	9-11	10-1	10-2	10-4	10-6	10-8	10-10	11-0
400.00	10-11	11-1	11-3	11-5	11-7	11-10	12-0	12-2	12-4	12-6
425.00	12-4	12-6	12-9	12-11	13-1	13-4	13-6	13-9	13-11	14-1
450.00	13-9	14-0	14-3	14-6	14-8	14-11	15-2	15-5	15-7	15-10
475.00	15-4	15-7	15-11	16-2	16-5	16-8	16-11	17-2	17-5	17-7
500.00	17-0	17-4	17-7	17-11	18-2	18-5	18-9	19-0	19-3	19-6

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	2-9	2-9	2-10	2-11	2-11	3-0	3-0	3-1	3-1	3-2
225.00	3-6	3-6	3-7	3-8	3-8	3-9	3-10	3-10	3-11	4-0
250.00	4-3	4-4	4-5	4-6	4-7	4-8	4-8	4-9	4-10	4-11
275.00	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-11
300.00	6-2	6-3	6-4	6-6	6-7	6-8	6-9	6-10	7-0	7-1
325.00	7-3	7-4	7-6	7-7	7-9	7-10	7-11	8-1	8-2	8-3
350.00	8-5	8-6	8-8	8-10	8-11	9-1	9-3	9-4	9-6	9-7
375.00	9-8	9-10	10-0	10-1	10-3	10-5	10-7	10-9	10-11	11-0
400.00	11-0	11-2	11-4	11-6	11-8	11-10	12-1	12-3	12-5	12-7
425.00	12-5	12-7	12-10	13-0	13-2	13-5	13-7	13-10	14-0	14-2
450.00	13-11	14-1	14-4	14-7	14-10	15-0	15-3	15-6	15-8	15-11
475.00	15-6	15-9	16-0	16-3	16-6	16-9	17-0	17-3	17-6	17-9
500.00	17-2	17-5	17-9	18-0	18-3	18-7	18-10	19-1	19-5	19-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 118 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH822.118
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS										

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.907	63.47	1000	63.47	1000*
20	0	0	0	0.629	62.97	332	62.94	332
30	0	0	0	0.629	63.03	332	63.01	332
40	0	0	0	0.629	63.09	332	63.07	332
50	0	0	0	0.629	63.15	331	63.13	331
60	0	0	0	0.629	63.21	331	63.2	331
70	0	0	0	0.629	63.27	331	63.26	331
80	0	0	0	0.629	63.34	330	63.32	330
90	0	0	0	0.629	63.4	330	63.38	330
100	0	0	0	0.629	63.46	330	63.45	330
110	0	0	0	0.629	63.52	330	63.51	330
120	0	0	0	0.629	63.58	329	63.56	329
130	0	0	0	0.629	63.64	329	63.62	329
167	0	0	0	0.629	63.85	328	63.82	328
212	0	0	0	0.629	64.1	327	64.08	327

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>122 OF 215</p> </div>	Indicates Latest Revision	Completely Revised	<div style="border: 1px solid black; padding: 2px; display: inline-block;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH822.122</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>3/0 RTS TRIPLEX TENSION 1000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-3	2-3	2-4	2-4	2-4	2-4	2-4	2-5	2-5	2-5
125.00	3-7	3-7	3-7	3-7	3-8	3-8	3-8	3-9	3-9	3-9
150.00	5-1	5-2	5-2	5-3	5-3	5-3	5-4	5-4	5-5	5-5
175.00	7-0	7-0	7-1	7-1	7-2	7-2	7-3	7-4	7-4	7-5
200.00	9-1	9-2	9-3	9-3	9-4	9-5	9-6	9-7	9-7	9-8
225.00	11-6	11-7	11-8	11-9	11-10	11-11	12-0	12-1	12-2	12-3
250.00	14-3	14-4	14-5	14-6	14-8	14-9	14-10	14-11	15-0	15-2

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-3	2-3	2-4	2-4	2-4	2-4	2-4	2-5	2-5	2-5
125.00	3-7	3-7	3-7	3-8	3-8	3-8	3-8	3-9	3-9	3-9
150.00	5-1	5-2	5-2	5-3	5-3	5-4	5-4	5-4	5-5	5-5
175.00	7-0	7-0	7-1	7-1	7-2	7-3	7-3	7-4	7-4	7-5
200.00	9-1	9-2	9-3	9-4	9-4	9-5	9-6	9-7	9-7	9-8
225.00	11-7	11-8	11-9	11-9	11-10	11-11	12-0	12-1	12-2	12-3
250.00	14-3	14-4	14-6	14-7	14-8	14-9	14-10	14-11	15-1	15-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 124 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH822.124
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING 3/0 RTS TRIPLEX TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	9-8	9-8	9-9	9-9	9-9	9-9	9-9	9-10	9-10	9-10
225.00	12-3	12-4	12-4	12-4	12-4	12-4	12-5	12-5	12-5	12-5
250.00	15-2	15-2	15-3	15-3	15-3	15-3	15-4	15-4	15-4	15-5
275.00	18-4	18-5	18-5	18-6	18-6	18-6	18-7	18-7	18-7	18-8
300.00	21-11	21-11	22-0	22-0	22-0	22-1	22-1	22-2	22-2	22-2
325.00	25-9	25-9	25-10	25-10	25-11	25-11	26-0	26-0	26-1	26-1
350.00	29-10	29-11	30-0	30-0	30-1	30-1	30-2	30-2	30-3	30-4
375.00	34-4	34-5	34-5	34-6	34-7	34-7	34-8	34-9	34-9	34-10
400.00	39-2	39-2	39-3	39-4	39-5	39-5	39-6	39-7	39-8	39-8
425.00	44-3	44-4	44-5	44-5	44-6	44-7	44-8	44-9	44-10	44-11
450.00	49-8	49-9	49-10	49-11	50-0	50-1	50-2	50-3	50-4	50-5
475.00	55-5	55-7	55-8	55-9	55-10	55-11	56-0	56-1	56-2	56-3
500.00	61-7	61-8	61-9	61-10	62-0	62-1	62-2	62-3	62-4	62-6

Stringing Sag Table Using Final Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	9-8	9-9	9-9	9-9	9-9	9-9	9-9	9-10	9-10	9-10
225.00	12-3	12-4	12-4	12-4	12-4	12-5	12-5	12-5	12-5	12-5
250.00	15-2	15-2	15-3	15-3	15-3	15-4	15-4	15-4	15-4	15-5
275.00	18-5	18-5	18-5	18-6	18-6	18-6	18-7	18-7	18-7	18-8
300.00	21-11	21-11	22-0	22-0	22-0	22-1	22-1	22-2	22-2	22-3
325.00	25-9	25-9	25-10	25-10	25-11	25-11	26-0	26-0	26-1	26-1
350.00	29-11	29-11	30-0	30-0	30-1	30-1	30-2	30-3	30-3	30-4
375.00	34-4	34-5	34-6	34-6	34-7	34-8	34-8	34-9	34-9	34-10
400.00	39-2	39-3	39-3	39-4	39-5	39-6	39-6	39-7	39-8	39-8
425.00	44-3	44-4	44-5	44-6	44-7	44-7	44-8	44-9	44-10	44-11
450.00	49-9	49-9	49-10	49-11	50-0	50-1	50-2	50-3	50-4	50-5
475.00	55-6	55-7	55-8	55-9	55-10	55-11	56-0	56-1	56-2	56-3
500.00	61-7	61-8	61-10	61-11	62-0	62-1	62-2	62-3	62-5	62-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 126 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH822.126
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING 3/0 RTS TRIPLEX TENSION 1000 LBS					

Span = 100 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.907	1.59	1500	1.59	1500*
20	0	0	0	0.629	0.76	1030	0.75	1048
30	0	0	0	0.629	0.83	947	0.81	966
40	0	0	0	0.629	0.9	871	0.88	891
50	0	0	0	0.629	0.98	804	0.96	822
60	0	0	0	0.629	1.06	744	1.03	761
70	0	0	0	0.629	1.14	691	1.11	707
80	0	0	0	0.629	1.22	645	1.19	659
90	0	0	0	0.629	1.3	605	1.28	617
100	0	0	0	0.629	1.38	570	1.36	580
110	0	0	0	0.629	1.46	539	1.44	547
120	0	0	0	0.629	1.54	512	1.52	519
130	0	0	0	0.629	1.61	487	1.59	495
167	0	0	0	0.629	1.87	422	1.83	430
212	0	0	0	0.629	2.14	369	2.1	375

* Design Condition

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.907	6.38	1500	6.38	1500*
20	0	0	0	0.629	5.38	587	5.33	591
30	0	0	0	0.629	5.48	576	5.44	580
40	0	0	0	0.629	5.58	566	5.54	570
50	0	0	0	0.629	5.67	556	5.63	560
60	0	0	0	0.629	5.77	547	5.73	550
70	0	0	0	0.629	5.87	538	5.83	541
80	0	0	0	0.629	5.96	530	5.93	533
90	0	0	0	0.629	6.05	522	6.02	524
100	0	0	0	0.629	6.14	514	6.11	516
110	0	0	0	0.629	6.23	506	6.21	509
120	0	0	0	0.629	6.32	499	6.3	501
130	0	0	0	0.629	6.41	493	6.38	495
167	0	0	0	0.629	6.71	471	6.67	473
212	0	0	0	0.629	7.05	448	7.01	451

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D							
SHEET 128 OF 215		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH822.128
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS											

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.907	40.8	1500	40.8	1500*
20	0	0	0	0.629	39.8	506	39.76	507
30	0	0	0	0.629	39.9	505	39.85	506
40	0	0	0	0.629	39.99	504	39.95	505
50	0	0	0	0.629	40.08	503	40.04	503
60	0	0	0	0.629	40.18	502	40.14	502
70	0	0	0	0.629	40.27	501	40.23	501
80	0	0	0	0.629	40.36	500	40.33	500
90	0	0	0	0.629	40.46	499	40.42	499
100	0	0	0	0.629	40.55	498	40.52	498
110	0	0	0	0.629	40.64	496	40.61	497
120	0	0	0	0.629	40.73	495	40.71	496
130	0	0	0	0.629	40.83	494	40.8	495
167	0	0	0	0.629	41.15	491	41.11	491
212	0	0	0	0.629	41.52	486	41.48	487

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>130 OF 215</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH822.130</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>3/0 RTS TRIPLEX TENSION 1500 LBS</p> </div>					

Completely Revised



Information Removed

DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

OH822.130

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-4	1-4	1-5	1-5	1-5	1-5	1-6	1-6	1-6	1-7
125.00	2-1	2-1	2-2	2-2	2-3	2-3	2-4	2-4	2-5	2-5
150.00	3-0	3-1	3-1	3-2	3-3	3-3	3-4	3-5	3-5	3-6
175.00	4-1	4-2	4-3	4-4	4-5	4-6	4-6	4-7	4-8	4-9
200.00	5-4	5-5	5-6	5-8	5-9	5-10	5-11	6-0	6-1	6-2
225.00	6-9	6-11	7-0	7-2	7-3	7-5	7-6	7-7	7-9	7-10
250.00	8-4	8-6	8-8	8-10	9-0	9-1	9-3	9-5	9-7	9-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-4	1-4	1-5	1-5	1-5	1-6	1-6	1-6	1-6	1-7
125.00	2-1	2-2	2-2	2-3	2-3	2-3	2-4	2-4	2-5	2-5
150.00	3-0	3-1	3-2	3-2	3-3	3-4	3-4	3-5	3-5	3-6
175.00	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-8	4-9
200.00	5-5	5-6	5-7	5-8	5-9	5-10	6-0	6-1	6-2	6-3
225.00	6-10	6-11	7-1	7-2	7-4	7-5	7-7	7-8	7-9	7-11
250.00	8-5	8-7	8-9	8-10	9-0	9-2	9-4	9-6	9-7	9-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 132 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.132
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span:	300.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-4	3-4	3-5	3-5	3-5	3-6	3-6	3-6	3-6	3-7
175.00	4-7	4-7	4-7	4-8	4-8	4-9	4-9	4-9	4-10	4-10
200.00	5-11	6-0	6-0	6-1	6-1	6-2	6-2	6-3	6-3	6-4
225.00	7-6	7-7	7-8	7-8	7-9	7-10	7-10	7-11	7-11	8-0
250.00	9-4	9-4	9-5	9-6	9-7	9-8	9-8	9-9	9-10	9-11
275.00	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11	12-0
300.00	13-5	13-6	13-7	13-8	13-9	13-11	14-0	14-1	14-2	14-3
325.00	15-9	15-10	15-11	16-1	16-2	16-4	16-5	16-6	16-8	16-9
350.00	18-3	18-5	18-6	18-8	18-9	18-11	19-0	19-2	19-4	19-5
375.00	20-11	21-1	21-3	21-5	21-7	21-9	21-10	22-0	22-2	22-4

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-4	3-5	3-5	3-5	3-5	3-6	3-6	3-6	3-6	3-7
175.00	4-7	4-7	4-8	4-8	4-8	4-9	4-9	4-9	4-10	4-10
200.00	6-0	6-0	6-1	6-1	6-2	6-2	6-3	6-3	6-4	6-4
225.00	7-7	7-7	7-8	7-9	7-9	7-10	7-10	7-11	8-0	8-0
250.00	9-4	9-5	9-5	9-6	9-7	9-8	9-9	9-9	9-10	9-11
275.00	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11	12-0
300.00	13-5	13-6	13-8	13-9	13-10	13-11	14-0	14-1	14-2	14-3
325.00	15-9	15-11	16-0	16-1	16-3	16-4	16-5	16-7	16-8	16-9
350.00	18-4	18-5	18-7	18-8	18-10	18-11	19-1	19-3	19-4	19-6
375.00	21-0	21-2	21-4	21-6	21-8	21-9	21-11	22-1	22-3	22-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 133 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.133
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS									

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.907	10.78	2000	10.78	2000*
20	0	0	0	0.629	9.13	778	9.05	785
30	0	0	0	0.629	9.26	767	9.19	773
40	0	0	0	0.629	9.39	756	9.32	762
50	0	0	0	0.629	9.52	746	9.45	752
60	0	0	0	0.629	9.65	736	9.58	742
70	0	0	0	0.629	9.78	727	9.71	732
80	0	0	0	0.629	9.91	717	9.84	722
90	0	0	0	0.629	10.03	709	9.97	713
100	0	0	0	0.629	10.15	700	10.09	704
110	0	0	0	0.629	10.28	692	10.22	696
120	0	0	0	0.629	10.4	684	10.34	687
130	0	0	0	0.629	10.52	676	10.47	679
167	0	0	0	0.629	10.95	650	10.88	654
212	0	0	0	0.629	11.41	624	11.35	627

* Design Condition

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.907	19.25	2000	19.25	2000*
20	0	0	0	0.629	17.6	720	17.52	724
30	0	0	0	0.629	17.73	715	17.65	718
40	0	0	0	0.629	17.86	710	17.78	713
50	0	0	0	0.629	17.98	705	17.91	708
60	0	0	0	0.629	18.11	700	18.04	703
70	0	0	0	0.629	18.24	696	18.17	698
80	0	0	0	0.629	18.36	691	18.3	693
90	0	0	0	0.629	18.49	686	18.42	689
100	0	0	0	0.629	18.61	682	18.55	684
110	0	0	0	0.629	18.73	677	18.68	680
120	0	0	0	0.629	18.86	673	18.8	675
130	0	0	0	0.629	18.98	669	18.93	671
167	0	0	0	0.629	19.42	654	19.35	656
212	0	0	0	0.629	19.9	638	19.84	640

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>137 OF 215</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div style="color: red; font-weight: bold; font-size: 2em;">X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH822.137
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	1.907	30.24	2000	30.24	2000*
20	0	0	0	0.629	28.59	697	28.51	698
30	0	0	0	0.629	28.72	694	28.64	695
40	0	0	0	0.629	28.84	691	28.77	692
50	0	0	0	0.629	28.97	688	28.9	689
60	0	0	0	0.629	29.1	685	29.03	686
70	0	0	0	0.629	29.22	682	29.15	683
80	0	0	0	0.629	29.35	679	29.28	681
90	0	0	0	0.629	29.47	676	29.41	678
100	0	0	0	0.629	29.6	673	29.53	675
110	0	0	0	0.629	29.72	671	29.66	672
120	0	0	0	0.629	29.84	668	29.79	669
130	0	0	0	0.629	29.96	665	29.91	667
167	0	0	0	0.629	30.41	656	30.34	657
212	0	0	0	0.629	30.9	646	30.84	647

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>138 OF 215</p> </div>	Indicates Latest Revision	Completely Revised	<div style="border: 1px solid black; padding: 2px; display: inline-block;">X</div> New Page	Information Removed	<div style="text-align: center;"> <p>OH822.138</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>3/0 RTS TRIPLEX TENSION 2000 LBS</p> </div>				

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-3	2-4	2-4	2-4	2-5	2-5	2-5	2-6	2-6	2-7
175.00	3-1	3-1	3-2	3-3	3-3	3-4	3-4	3-5	3-5	3-6
200.00	4-0	4-1	4-2	4-2	4-3	4-4	4-4	4-5	4-6	4-6
225.00	5-1	5-2	5-3	5-4	5-5	5-6	5-6	5-7	5-8	5-9
250.00	6-3	6-5	6-6	6-7	6-8	6-9	6-10	6-11	7-0	7-1
275.00	7-7	7-9	7-10	7-11	8-1	8-2	8-3	8-4	8-6	8-7
300.00	9-1	9-2	9-4	9-5	9-7	9-9	9-10	10-0	10-1	10-3
325.00	10-8	10-9	10-11	11-1	11-3	11-5	11-7	11-8	11-10	12-0
350.00	12-4	12-6	12-8	12-10	13-1	13-3	13-5	13-7	13-9	13-11
375.00	14-2	14-4	14-7	14-9	15-0	15-2	15-5	15-7	15-9	16-0

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-3	2-4	2-4	2-5	2-5	2-5	2-6	2-6	2-6	2-7
175.00	3-1	3-2	3-2	3-3	3-3	3-4	3-4	3-5	3-5	3-6
200.00	4-1	4-1	4-2	4-3	4-3	4-4	4-5	4-5	4-6	4-7
225.00	5-2	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-8	5-9
250.00	6-4	6-5	6-6	6-7	6-8	6-9	6-11	7-0	7-1	7-2
275.00	7-8	7-9	7-11	8-0	8-1	8-3	8-4	8-5	8-6	8-8
300.00	9-2	9-3	9-5	9-6	9-8	9-9	9-11	10-0	10-2	10-3
325.00	10-9	10-10	11-0	11-2	11-4	11-6	11-8	11-9	11-11	12-1
350.00	12-5	12-7	12-9	13-0	13-2	13-4	13-6	13-8	13-10	14-0
375.00	14-3	14-6	14-8	14-11	15-1	15-4	15-6	15-8	15-11	16-1

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SHEET 141 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH822.141
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-4	4-5	4-5	4-6	4-6	4-6	4-7	4-7	4-8	4-8
225.00	5-6	5-7	5-7	5-8	5-8	5-9	5-9	5-10	5-10	5-11
250.00	6-10	6-11	6-11	7-0	7-0	7-1	7-2	7-2	7-3	7-3
275.00	8-3	8-4	8-5	8-5	8-6	8-7	8-8	8-8	8-9	8-10
300.00	9-10	9-11	10-0	10-1	10-2	10-2	10-3	10-4	10-5	10-6
325.00	11-7	11-8	11-9	11-10	11-11	12-0	12-1	12-2	12-3	12-4
350.00	13-5	13-6	13-7	13-8	13-10	13-11	14-0	14-1	14-2	14-3
375.00	15-5	15-6	15-7	15-9	15-10	16-0	16-1	16-2	16-4	16-5
400.00	17-6	17-8	17-9	17-11	18-0	18-2	18-4	18-5	18-7	18-8
425.00	19-9	19-11	20-1	20-3	20-4	20-6	20-8	20-10	20-11	21-1
450.00	22-2	22-4	22-6	22-8	22-10	23-0	23-2	23-4	23-6	23-8
475.00	24-9	24-11	25-1	25-3	25-6	25-8	25-10	26-0	26-2	26-4
500.00	27-5	27-7	27-10	28-0	28-3	28-5	28-8	28-10	29-0	29-3

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	4-5	4-5	4-5	4-6	4-6	4-7	4-7	4-7	4-8	4-8
225.00	5-7	5-7	5-8	5-8	5-9	5-9	5-10	5-10	5-11	5-11
250.00	6-10	6-11	7-0	7-0	7-1	7-1	7-2	7-3	7-3	7-4
275.00	8-4	8-4	8-5	8-6	8-7	8-7	8-8	8-9	8-9	8-10
300.00	9-11	10-0	10-0	10-1	10-2	10-3	10-4	10-5	10-5	10-6
325.00	11-7	11-8	11-9	11-10	11-11	12-0	12-1	12-2	12-3	12-4
350.00	13-6	13-7	13-8	13-9	13-10	13-11	14-1	14-2	14-3	14-4
375.00	15-6	15-7	15-8	15-10	15-11	16-0	16-2	16-3	16-4	16-6
400.00	17-7	17-9	17-10	18-0	18-1	18-3	18-4	18-6	18-7	18-9
425.00	19-10	20-0	20-2	20-4	20-5	20-7	20-9	20-11	21-0	21-2
450.00	22-3	22-5	22-7	22-9	22-11	23-1	23-3	23-5	23-7	23-9
475.00	24-10	25-0	25-2	25-5	25-7	25-9	25-11	26-1	26-3	26-5
500.00	27-6	27-9	27-11	28-2	28-4	28-6	28-9	28-11	29-2	29-4

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 142 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.142
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS									

* Design Condition

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 144 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.144
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1000 LBS									

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.907	21.92	1000	21.92	1000*
0	0	0	0	0.629	21.47	336	21.45	337
30	0	0	0	0.629	21.66	333	21.64	334
40	0	0	0	0.629	21.72	333	21.71	333
50	0	0	0	0.629	21.79	332	21.77	332
60	0	0	0	0.629	21.85	331	21.83	331
70	0	0	0	0.629	21.91	330	21.89	330
80	0	0	0	0.629	21.97	329	21.96	329
90	0	0	0	0.629	22.03	328	22.02	328
100	0	0	0	0.629	22.09	327	22.08	327
110	0	0	0	0.629	22.15	326	22.14	327
120	0	0	0	0.629	22.21	326	22.2	326
130	0	0	0	0.629	22.27	325	22.25	325
167	0	0	0	0.629	22.48	322	22.45	322
212	0	0	0	0.629	22.72	319	22.7	319

* Design Condition

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.907	39.65	1000	39.65	1000*
0	0	0	0	0.629	39.21	333	39.19	333
30	0	0	0	0.629	39.4	332	39.38	332
40	0	0	0	0.629	39.46	331	39.44	331
50	0	0	0	0.629	39.52	331	39.5	331
60	0	0	0	0.629	39.58	330	39.57	330
70	0	0	0	0.629	39.64	330	39.63	330
80	0	0	0	0.629	39.71	329	39.69	329
90	0	0	0	0.629	39.77	329	39.76	329
100	0	0	0	0.629	39.83	328	39.82	329
110	0	0	0	0.629	39.89	328	39.88	328
120	0	0	0	0.629	39.95	327	39.93	328
130	0	0	0	0.629	40.01	327	39.99	327
167	0	0	0	0.629	40.21	326	40.19	326
212	0	0	0	0.629	40.46	324	40.44	324

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>145 OF 215</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH822.145
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.907	63.47	1000	63.47	1000*
0	0	0	0	0.629	63.03	332	63	332
30	0	0	0	0.629	63.21	331	63.19	331
40	0	0	0	0.629	63.27	331	63.26	331
50	0	0	0	0.629	63.34	330	63.32	330
60	0	0	0	0.629	63.4	330	63.38	330
70	0	0	0	0.629	63.46	330	63.44	330
80	0	0	0	0.629	63.52	330	63.51	330
90	0	0	0	0.629	63.58	329	63.57	329
100	0	0	0	0.629	63.64	329	63.63	329
110	0	0	0	0.629	63.7	329	63.69	329
120	0	0	0	0.629	63.77	328	63.75	329
130	0	0	0	0.629	63.82	328	63.8	328
167	0	0	0	0.629	64.03	327	64.01	327
212	0	0	0	0.629	64.28	326	64.26	326

* Design Condition

* Design Condition

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B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 146 OF 215		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH822.146		
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING 3/O RTS TRIPLEX TENSION 1000 LBS										

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.907	40.8	1500	40.8	1500*
0	0	0	0	0.629	39.9	505	39.85	506
30	0	0	0	0.629	40.18	502	40.13	502
40	0	0	0	0.629	40.27	501	40.23	501
50	0	0	0	0.629	40.36	500	40.32	500
60	0	0	0	0.629	40.46	499	40.42	499
70	0	0	0	0.629	40.55	498	40.51	498
80	0	0	0	0.629	40.64	496	40.61	497
90	0	0	0	0.629	40.73	495	40.7	496
100	0	0	0	0.629	40.83	494	40.79	495
110	0	0	0	0.629	40.92	493	40.89	494
120	0	0	0	0.629	41.01	492	40.98	493
130	0	0	0	0.629	41.1	491	41.07	492
167	0	0	0	0.629	41.42	488	41.38	488
212	0	0	0	0.629	41.79	484	41.75	484
* Design Condition								

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>154 OF 215</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH822.154</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING</p> <p>3/0 RTS TRIPLEX TENSION 1500 LBS</p> </div>						

Completely Revised

New Page

OH822.154

DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING
3/0 RTS TRIPLEX TENSION 1500 LBS

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-10	0-11	0-11
100.00	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
125.00	1-6	1-7	1-9	1-10	2-0	2-1	2-3	2-4	2-6	2-7
150.00	2-2	2-4	2-6	2-8	2-10	3-0	3-3	3-5	3-7	3-9
175.00	2-11	3-2	3-5	3-8	3-11	4-2	4-5	4-8	4-10	5-1
200.00	3-10	4-1	4-5	4-9	5-1	5-5	5-9	6-1	6-4	6-8

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11
100.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-6	1-7	1-8
125.00	1-6	1-8	1-9	1-11	2-0	2-2	2-3	2-5	2-6	2-8
150.00	2-2	2-5	2-7	2-9	2-11	3-1	3-3	3-6	3-8	3-10
175.00	3-0	3-3	3-6	3-9	4-0	4-3	4-6	4-9	4-11	5-2
200.00	3-11	4-3	4-7	4-11	5-2	5-6	5-10	6-2	6-6	6-9

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 155 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.155
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-5	1-5	1-5	1-6	1-6	1-6	1-7	1-7	1-7	1-7
125.00	2-2	2-3	2-3	2-4	2-4	2-5	2-5	2-5	2-6	2-6
150.00	3-2	3-3	3-3	3-4	3-5	3-5	3-6	3-6	3-7	3-8
175.00	4-4	4-5	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-11
200.00	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-5	6-6
225.00	7-2	7-3	7-4	7-6	7-7	7-9	7-10	8-0	8-1	8-2
250.00	8-10	8-11	9-1	9-3	9-5	9-7	9-8	9-10	10-0	10-1

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-5	1-5	1-6	1-6	1-6	1-6	1-7	1-7	1-7	1-7
125.00	2-3	2-3	2-3	2-4	2-4	2-5	2-5	2-6	2-6	2-6
150.00	3-2	3-3	3-4	3-4	3-5	3-5	3-6	3-7	3-7	3-8
175.00	4-4	4-5	4-6	4-7	4-8	4-8	4-9	4-10	4-11	5-0
200.00	5-8	5-9	5-10	6-0	6-1	6-2	6-3	6-4	6-5	6-6
225.00	7-2	7-4	7-5	7-7	7-8	7-9	7-11	8-0	8-1	8-3
250.00	8-10	9-0	9-2	9-4	9-6	9-7	9-9	9-11	10-0	10-2

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 156 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.156
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-5	3-5	3-6	3-6	3-6	3-6	3-7	3-7	3-7	3-7
175.00	4-8	4-8	4-9	4-9	4-9	4-10	4-10	4-10	4-11	4-11
200.00	6-1	6-1	6-2	6-2	6-3	6-3	6-4	6-4	6-5	6-5
225.00	7-8	7-9	7-10	7-10	7-11	7-11	8-0	8-1	8-1	8-2
250.00	9-6	9-7	9-7	9-8	9-9	9-10	9-11	9-11	10-0	10-1
275.00	11-6	11-7	11-8	11-9	11-10	11-11	12-0	12-1	12-1	12-2
300.00	13-8	13-9	13-10	14-0	14-1	14-2	14-3	14-4	14-5	14-6
325.00	16-1	16-2	16-3	16-5	16-6	16-7	16-9	16-10	16-11	17-1
350.00	18-8	18-9	18-11	19-0	19-2	19-3	19-5	19-7	19-8	19-10
375.00	21-5	21-7	21-8	21-10	22-0	22-2	22-4	22-5	22-7	22-9

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-5	3-5	3-6	3-6	3-6	3-6	3-7	3-7	3-7	3-8
175.00	4-8	4-8	4-9	4-9	4-9	4-10	4-10	4-11	4-11	4-11
200.00	6-1	6-2	6-2	6-3	6-3	6-4	6-4	6-5	6-5	6-5
225.00	7-9	7-9	7-10	7-10	7-11	8-0	8-0	8-1	8-2	8-2
250.00	9-6	9-7	9-8	9-9	9-9	9-10	9-11	10-0	10-0	10-1
275.00	11-6	11-7	11-8	11-9	11-10	11-11	12-0	12-1	12-2	12-3
300.00	13-9	13-10	13-11	14-0	14-1	14-2	14-3	14-5	14-6	14-7
325.00	16-1	16-3	16-4	16-5	16-7	16-8	16-9	16-11	17-0	17-1
350.00	18-8	18-10	18-11	19-1	19-3	19-4	19-6	19-7	19-9	19-10
375.00	21-6	21-8	21-9	21-11	22-1	22-3	22-4	22-6	22-8	22-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 157 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH822.157
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-3	6-3	6-4	6-4	6-4	6-4	6-5	6-5	6-5	6-6
225.00	7-11	7-11	8-0	8-0	8-0	8-1	8-1	8-1	8-2	8-2
250.00	9-9	9-10	9-10	9-11	9-11	9-11	10-0	10-0	10-1	10-1
275.00	11-10	11-10	11-11	12-0	12-0	12-1	12-1	12-2	12-2	12-3
300.00	14-1	14-2	14-2	14-3	14-4	14-4	14-5	14-5	14-6	14-7
325.00	16-6	16-7	16-8	16-9	16-9	16-10	16-11	17-0	17-0	17-1
350.00	19-2	19-3	19-4	19-5	19-6	19-7	19-8	19-8	19-9	19-10
375.00	22-1	22-2	22-3	22-4	22-5	22-6	22-7	22-8	22-9	22-9
400.00	25-1	25-2	25-3	25-5	25-6	25-7	25-8	25-9	25-10	25-11
425.00	28-4	28-6	28-7	28-8	28-9	28-11	29-0	29-1	29-2	29-4
450.00	31-10	31-11	32-1	32-2	32-3	32-5	32-6	32-8	32-9	32-11
475.00	35-6	35-7	35-9	35-10	36-0	36-2	36-3	36-5	36-6	36-8
500.00	39-4	39-6	39-8	39-9	39-11	40-1	40-3	40-5	40-6	40-8

Stringing Sag Table Using Final Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	6-3	6-3	6-4	6-4	6-4	6-5	6-5	6-5	6-5	6-6
225.00	7-11	7-11	8-0	8-0	8-1	8-1	8-1	8-2	8-2	8-2
250.00	9-9	9-10	9-10	9-11	9-11	10-0	10-0	10-1	10-1	10-1
275.00	11-10	11-11	11-11	12-0	12-0	12-1	12-1	12-2	12-2	12-3
300.00	14-1	14-2	14-3	14-3	14-4	14-4	14-5	14-6	14-6	14-7
325.00	16-7	16-8	16-8	16-9	16-10	16-11	16-11	17-0	17-1	17-1
350.00	19-3	19-4	19-4	19-5	19-6	19-7	19-8	19-9	19-10	19-10
375.00	22-1	22-2	22-3	22-4	22-5	22-6	22-7	22-8	22-9	22-10
400.00	25-2	25-3	25-4	25-5	25-6	25-7	25-8	25-10	25-11	26-0
425.00	28-5	28-6	28-7	28-9	28-10	28-11	29-0	29-2	29-3	29-4
450.00	31-10	32-0	32-1	32-3	32-4	32-6	32-7	32-8	32-10	32-11
475.00	35-6	35-8	35-10	35-11	36-1	36-2	36-4	36-5	36-7	36-9
500.00	39-5	39-7	39-8	39-10	40-0	40-2	40-3	40-5	40-7	40-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 158 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH822.158
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS					

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	1.907	30.24	2000	30.24	2000*
0	0	0	0	0.629	28.72	694	28.63	696
30	0	0	0	0.629	29.1	685	29.02	687
40	0	0	0	0.629	29.22	682	29.14	684
50	0	0	0	0.629	29.35	679	29.27	681
60	0	0	0	0.629	29.47	676	29.4	678
70	0	0	0	0.629	29.6	673	29.52	675
80	0	0	0	0.629	29.72	671	29.65	672
90	0	0	0	0.629	29.84	668	29.77	670
100	0	0	0	0.629	29.96	665	29.9	667
110	0	0	0	0.629	30.09	663	30.02	664
120	0	0	0	0.629	30.21	660	30.15	661
130	0	0	0	0.629	30.33	658	30.27	659
167	0	0	0	0.629	30.76	649	30.7	650
212	0	0	0	0.629	31.25	639	31.19	640

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>162 OF 215</p> </div>	Indicates Latest Revision	Completely Revised	<div style="border: 1px solid black; padding: 2px;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH822.162</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING</p> <p>3/0 RTS TRIPLEX TENSION 2000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7
100.00	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1
125.00	0-10	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-6	1-8
150.00	1-2	1-3	1-4	1-5	1-7	1-9	1-10	2-0	2-2	2-4
175.00	1-7	1-8	1-10	2-0	2-2	2-4	2-6	2-9	3-0	3-3
200.00	2-1	2-3	2-5	2-7	2-10	3-1	3-4	3-7	3-11	4-3

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7
100.00	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-1
125.00	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-8
150.00	1-2	1-3	1-5	1-6	1-8	1-9	1-11	2-1	2-3	2-5
175.00	1-7	1-9	1-11	2-1	2-3	2-5	2-8	2-10	3-1	3-4
200.00	2-1	2-3	2-6	2-8	2-11	3-2	3-5	3-9	4-1	4-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 163 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.163
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-4	2-5	2-5	2-5	2-6	2-6	2-7	2-7	2-7	2-8
175.00	3-3	3-3	3-4	3-4	3-5	3-5	3-6	3-6	3-7	3-7
200.00	4-2	4-3	4-4	4-4	4-5	4-6	4-6	4-7	4-8	4-8
225.00	5-4	5-5	5-5	5-6	5-7	5-8	5-9	5-10	5-11	5-11
250.00	6-7	6-8	6-9	6-10	6-11	7-0	7-1	7-2	7-3	7-4
275.00	7-11	8-0	8-2	8-3	8-4	8-6	8-7	8-8	8-9	8-11
300.00	9-5	9-7	9-8	9-10	9-11	10-1	10-2	10-4	10-5	10-7
325.00	11-1	11-3	11-5	11-6	11-8	11-10	12-0	12-2	12-3	12-5
350.00	12-10	13-0	13-3	13-5	13-7	13-9	13-11	14-1	14-3	14-5
375.00	14-9	15-0	15-2	15-4	15-7	15-9	16-0	16-2	16-4	16-6

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-5	2-5	2-5	2-6	2-6	2-6	2-7	2-7	2-8	2-8
175.00	3-3	3-3	3-4	3-4	3-5	3-5	3-6	3-6	3-7	3-7
200.00	4-3	4-3	4-4	4-5	4-5	4-6	4-7	4-7	4-8	4-9
225.00	5-4	5-5	5-6	5-7	5-8	5-8	5-9	5-10	5-11	6-0
250.00	6-7	6-8	6-9	6-11	7-0	7-1	7-2	7-3	7-4	7-5
275.00	8-0	8-1	8-3	8-4	8-5	8-6	8-8	8-9	8-10	8-11
300.00	9-6	9-8	9-9	9-11	10-0	10-2	10-3	10-5	10-6	10-8
325.00	11-2	11-4	11-6	11-8	11-9	11-11	12-1	12-2	12-4	12-6
350.00	13-0	13-2	13-4	13-6	13-8	13-10	14-0	14-2	14-4	14-6
375.00	14-11	15-1	15-4	15-6	15-8	15-11	16-1	16-3	16-5	16-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 165 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH822.165
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-2	7-3	7-3	7-4	7-4	7-4	7-5	7-5	7-5	7-6
275.00	8-9	8-9	8-9	8-10	8-10	8-11	8-11	9-0	9-0	9-1
300.00	10-4	10-5	10-6	10-6	10-7	10-7	10-8	10-8	10-9	10-9
325.00	12-2	12-3	12-3	12-4	12-5	12-5	12-6	12-7	12-7	12-8
350.00	14-1	14-2	14-3	14-4	14-4	14-5	14-6	14-7	14-7	14-8
375.00	16-3	16-3	16-4	16-5	16-6	16-7	16-8	16-9	16-9	16-10
400.00	18-6	18-6	18-7	18-8	18-9	18-10	18-11	19-0	19-1	19-2
425.00	20-10	20-11	21-0	21-1	21-3	21-4	21-5	21-6	21-7	21-8
450.00	23-5	23-6	23-7	23-8	23-9	23-11	24-0	24-1	24-2	24-4
475.00	26-1	26-2	26-3	26-5	26-6	26-8	26-9	26-10	27-0	27-1
500.00	28-11	29-0	29-2	29-3	29-5	29-6	29-8	29-9	29-11	30-0
525.00	31-10	32-0	32-2	32-3	32-5	32-7	32-8	32-10	33-0	33-1
550.00	35-0	35-2	35-4	35-5	35-7	35-9	35-11	36-1	36-3	36-4
575.00	38-3	38-5	38-7	38-9	38-11	39-1	39-3	39-5	39-7	39-9
600.00	41-8	41-10	42-1	42-3	42-5	42-7	42-9	43-0	43-2	43-4
625.00	45-3	45-5	45-8	45-10	46-1	46-3	46-5	46-8	46-10	47-0

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	7-3	7-3	7-3	7-4	7-4	7-4	7-5	7-5	7-6	7-6
275.00	8-9	8-9	8-10	8-10	8-11	8-11	9-0	9-0	9-0	9-1
300.00	10-5	10-5	10-6	10-6	10-7	10-7	10-8	10-9	10-9	10-10
325.00	12-3	12-3	12-4	12-4	12-5	12-6	12-6	12-7	12-8	12-8
350.00	14-2	14-3	14-3	14-4	14-5	14-6	14-6	14-7	14-8	14-8
375.00	16-3	16-4	16-5	16-6	16-7	16-7	16-8	16-9	16-10	16-11
400.00	18-6	18-7	18-8	18-9	18-10	18-11	19-0	19-1	19-2	19-3
425.00	20-11	21-0	21-1	21-2	21-3	21-4	21-5	21-6	21-7	21-9
450.00	23-5	23-7	23-8	23-9	23-10	23-11	24-1	24-2	24-3	24-4
475.00	26-2	26-3	26-4	26-6	26-7	26-8	26-10	26-11	27-0	27-2
500.00	29-0	29-1	29-3	29-4	29-6	29-7	29-9	29-10	30-0	30-1
525.00	31-11	32-1	32-3	32-4	32-6	32-8	32-9	32-11	33-1	33-2
550.00	35-1	35-3	35-5	35-7	35-8	35-10	36-0	36-2	36-4	36-5
575.00	38-4	38-6	38-8	38-10	39-0	39-2	39-4	39-6	39-8	39-10
600.00	41-10	42-0	42-2	42-4	42-6	42-8	42-11	43-1	43-3	43-5
625.00	45-5	45-7	45-9	46-0	46-2	46-4	46-7	46-9	46-11	47-2

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>167 OF 215</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH822.167
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN 85MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS									

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	3.13	37.41	1000	37.41	1000*
20	0	0	0	0.629	37.07	203	37.05	203
30	0	0	0	0.629	37.11	202	37.09	203
40	0	0	0	0.629	37.14	202	37.13	202
50	0	0	0	0.629	37.18	202	37.17	202
60	0	0	0	0.629	37.22	202	37.21	202
70	0	0	0	0.629	37.26	202	37.25	202
80	0	0	0	0.629	37.3	202	37.28	202
90	0	0	0	0.629	37.33	201	37.32	201
100	0	0	0	0.629	37.37	201	37.36	201
110	0	0	0	0.629	37.41	201	37.39	201
120	0	0	0	0.629	37.44	201	37.42	201
130	0	0	0	0.629	37.48	201	37.46	201
167	0	0	0	0.629	37.6	200	37.58	200
212	0	0	0	0.629	37.76	199	37.74	199

* Design Condition

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	3.13	70.43	1000	70.43	1000*
20	0	0	0	0.629	70.09	202	70.08	202
30	0	0	0	0.629	70.13	202	70.11	202
40	0	0	0	0.629	70.17	202	70.15	202
50	0	0	0	0.629	70.2	201	70.19	202
60	0	0	0	0.629	70.24	201	70.23	201
70	0	0	0	0.629	70.28	201	70.27	201
80	0	0	0	0.629	70.32	201	70.3	201
90	0	0	0	0.629	70.35	201	70.34	201
100	0	0	0	0.629	70.39	201	70.37	201
110	0	0	0	0.629	70.43	201	70.41	201
120	0	0	0	0.629	70.46	201	70.44	201
130	0	0	0	0.629	70.49	201	70.48	201
167	0	0	0	0.629	70.62	201	70.6	201
212	0	0	0	0.629	70.77	200	70.75	200

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>169 OF 215</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH822.169	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING 3/0 RTS TRIPLEX TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	3.13	121.11	1000	121.11	1000*
20	0	0	0	0.629	120.77	201	120.76	201
30	0	0	0	0.629	120.81	201	120.79	201
40	0	0	0	0.629	120.85	201	120.83	201
50	0	0	0	0.629	120.88	201	120.87	201
60	0	0	0	0.629	120.92	201	120.91	201
70	0	0	0	0.629	120.96	201	120.94	201
80	0	0	0	0.629	120.99	201	120.98	201
90	0	0	0	0.629	121.03	201	121.02	201
100	0	0	0	0.629	121.06	201	121.05	201
110	0	0	0	0.629	121.1	201	121.08	201
120	0	0	0	0.629	121.13	201	121.12	201
130	0	0	0	0.629	121.17	201	121.15	201
167	0	0	0	0.629	121.29	201	121.27	201
212	0	0	0	0.629	121.44	201	121.42	201

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>170 OF 215</p> </div>	Indicates Latest Revision	Completely Revised	<div style="border: 1px solid black; padding: 2px; display: inline-block;">X</div> New Page	Information Removed	<div style="text-align: center;"> <p>OH822.170</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING</p> <p>3/0 RTS TRIPLEX TENSION 1000 LBS</p> </div>				

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-0	2-0	2-1	2-1	2-1	2-1	2-2	2-2	2-2	2-2
100.00	3-7	3-7	3-8	3-8	3-9	3-9	3-10	3-10	3-11	3-11
125.00	5-7	5-8	5-8	5-9	5-10	5-11	5-11	6-0	6-1	6-1
150.00	8-0	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9	8-10
175.00	10-11	11-1	11-3	11-4	11-6	11-7	11-9	11-10	11-11	12-0
200.00	14-4	14-6	14-8	14-10	15-0	15-2	15-4	15-6	15-7	15-9

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	----	----	----	----	----	----	----	----	----	----
75.00	2-0	2-0	2-1	2-1	2-1	2-1	2-2	2-2	2-2	2-3
100.00	3-7	3-7	3-8	3-8	3-9	3-9	3-10	3-10	3-11	3-11
125.00	5-7	5-8	5-9	5-9	5-10	5-11	6-0	6-0	6-1	6-2
150.00	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9	8-10
175.00	11-0	11-2	11-3	11-5	11-6	11-7	11-9	11-10	12-0	12-1
200.00	14-5	14-7	14-9	14-11	15-1	15-3	15-4	15-6	15-8	15-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>171 OF 215</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH822.171</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING</p> <p>3/0 RTS TRIPLEX TENSION 1000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-11	3-11	3-11	3-11	3-11	3-11	3-11	4-0	4-0	4-0
125.00	6-1	6-1	6-2	6-2	6-2	6-2	6-2	6-2	6-3	6-3
150.00	8-10	8-10	8-10	8-10	8-11	8-11	8-11	8-11	9-0	9-0
175.00	12-0	12-0	12-1	12-1	12-1	12-2	12-2	12-2	12-3	12-3
200.00	15-8	15-9	15-9	15-10	15-10	15-11	15-11	16-0	16-0	16-0
225.00	19-11	19-11	20-0	20-1	20-1	20-2	20-2	20-3	20-3	20-4
250.00	24-8	24-8	24-9	24-10	24-11	24-11	25-0	25-1	25-1	25-2

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-11	3-11	3-11	3-11	3-11	3-11	4-0	4-0	4-0	4-0
125.00	6-1	6-1	6-2	6-2	6-2	6-2	6-2	6-2	6-3	6-3
150.00	8-10	8-10	8-10	8-10	8-11	8-11	8-11	8-11	9-0	9-0
175.00	12-0	12-0	12-1	12-1	12-1	12-2	12-2	12-2	12-3	12-3
200.00	15-8	15-9	15-9	15-10	15-10	15-11	15-11	16-0	16-0	16-1
225.00	19-11	20-0	20-0	20-1	20-1	20-2	20-3	20-3	20-4	20-4
250.00	24-8	24-9	24-9	24-10	24-11	24-11	25-0	25-1	25-2	25-2

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Stringing Sag Table Using Initial Sag							Ruling Span: 400.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	17-0	17-0	17-1	17-1	17-1	17-1	17-1	17-1	17-1	17-1
225.00	21-7	21-7	21-8	21-8	21-8	21-8	21-8	21-8	21-8	21-8
250.00	26-9	26-9	26-9	26-10	26-10	26-10	26-10	26-10	26-10	26-10
275.00	32-6	32-6	32-6	32-6	32-6	32-7	32-7	32-7	32-7	32-7
300.00	38-9	38-10	38-10	38-10	38-10	38-10	38-11	38-11	38-11	38-11
325.00	45-8	45-8	45-9	45-9	45-9	45-10	45-10	45-10	45-10	45-11
350.00	53-2	53-2	53-3	53-3	53-4	53-4	53-4	53-5	53-5	53-5
375.00	61-4	61-4	61-5	61-5	61-5	61-6	61-6	61-6	61-7	61-7
400.00	70-1	70-1	70-2	70-2	70-3	70-3	70-4	70-4	70-4	70-5
425.00	79-6	79-6	79-7	79-7	79-8	79-9	79-9	79-10	79-10	79-10
450.00	89-7	89-8	89-8	89-9	89-9	89-10	89-11	89-11	90-0	90-0
475.00	100-4	100-5	100-6	100-6	100-7	100-8	100-8	100-9	100-10	100-10
500.00	111-10	111-11	111-11	112-0	112-1	112-2	112-3	112-3	112-4	112-5

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	17-0	17-1	17-1	17-1	17-1	17-1	17-1	17-1	17-1	17-1
225.00	21-7	21-7	21-8	21-8	21-8	21-8	21-8	21-8	21-8	21-9
250.00	26-9	26-9	26-9	26-10	26-10	26-10	26-10	26-10	26-10	26-11
275.00	32-6	32-6	32-6	32-6	32-7	32-7	32-7	32-7	32-7	32-8
300.00	38-9	38-10	38-10	38-10	38-10	38-11	38-11	38-11	38-11	39-0
325.00	45-8	45-8	45-9	45-9	45-9	45-10	45-10	45-10	45-10	45-11
350.00	53-2	53-3	53-3	53-3	53-4	53-4	53-4	53-5	53-5	53-5
375.00	61-4	61-4	61-5	61-5	61-5	61-6	61-6	61-7	61-7	61-7
400.00	70-1	70-2	70-2	70-2	70-3	70-3	70-4	70-4	70-5	70-5
425.00	79-6	79-7	79-7	79-8	79-8	79-9	79-9	79-10	79-10	79-11
450.00	89-7	89-8	89-8	89-9	89-10	89-10	89-11	89-11	90-0	90-0
475.00	100-5	100-5	100-6	100-7	100-7	100-8	100-8	100-9	100-10	100-10
500.00	111-10	111-11	112-0	112-1	112-1	112-2	112-3	112-3	112-4	112-5

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 174 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.174
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING 3/0 RTS TRIPLEX TENSION 1000 LBS									

Span = 100 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	3.13	2.62	1500	2.62	1500*
20	0	0	0	0.629	1.87	420	1.84	429
30	0	0	0	0.629	1.94	406	1.91	413
40	0	0	0	0.629	2.01	392	1.98	399
50	0	0	0	0.629	2.07	380	2.04	386
60	0	0	0	0.629	2.14	368	2.11	374
70	0	0	0	0.629	2.2	358	2.17	363
80	0	0	0	0.629	2.26	348	2.24	352
90	0	0	0	0.629	2.32	339	2.3	343
100	0	0	0	0.629	2.38	331	2.36	334
110	0	0	0	0.629	2.44	323	2.41	327
120	0	0	0	0.629	2.5	316	2.46	320
130	0	0	0	0.629	2.55	309	2.52	313
167	0	0	0	0.629	2.73	289	2.7	292
212	0	0	0	0.629	2.94	269	2.9	272

* Design Condition

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	3.13	10.55	1500	10.55	1500*
20	0	0	0	0.629	9.85	322	9.81	324
30	0	0	0	0.629	9.91	321	9.87	322
40	0	0	0	0.629	9.97	319	9.93	320
50	0	0	0	0.629	10.02	317	9.99	318
60	0	0	0	0.629	10.08	315	10.05	316
70	0	0	0	0.629	10.14	313	10.11	314
80	0	0	0	0.629	10.2	312	10.17	312
90	0	0	0	0.629	10.26	310	10.23	311
100	0	0	0	0.629	10.31	308	10.29	309
110	0	0	0	0.629	10.37	307	10.34	307
120	0	0	0	0.629	10.43	305	10.39	306
130	0	0	0	0.629	10.48	303	10.45	304
167	0	0	0	0.629	10.67	298	10.63	299
212	0	0	0	0.629	10.89	292	10.86	293

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 176 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.176
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	31.5	0	3.13	70.41	1500	70.41	1500*
20	0	0	0	0.629	69.72	304	69.69	304
30	0	0	0	0.629	69.78	304	69.75	304
40	0	0	0	0.629	69.84	304	69.81	304
50	0	0	0	0.629	69.89	303	69.86	303
60	0	0	0	0.629	69.95	303	69.92	303
70	0	0	0	0.629	70.01	303	69.98	303
80	0	0	0	0.629	70.06	303	70.04	303
90	0	0	0	0.629	70.12	303	70.1	303
100	0	0	0	0.629	70.18	302	70.15	302
110	0	0	0	0.629	70.23	302	70.2	302
120	0	0	0	0.629	70.29	302	70.25	302
130	0	0	0	0.629	70.34	302	70.31	302
167	0	0	0	0.629	70.53	301	70.5	301
212	0	0	0	0.629	70.76	300	70.73	300

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>178 OF 215</p> </div>	Indicates Latest Revision	Completely Revised	<div style="border: 1px solid black; padding: 2px; text-align: center;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH822.178</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING</p> <p>3/0 RTS TRIPLEX TENSION 1500 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-4
100.00	1-10	1-11	2-0	2-1	2-1	2-2	2-3	2-4	2-4	2-5
125.00	2-10	3-0	3-1	3-2	3-4	3-5	3-6	3-7	3-8	3-9
150.00	4-2	4-4	4-5	4-7	4-9	4-11	5-0	5-2	5-4	5-5
175.00	5-8	5-10	6-1	6-3	6-6	6-8	6-10	7-1	7-3	7-5
200.00	7-4	7-8	7-11	8-2	8-5	8-9	9-0	9-3	9-5	9-8

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-1	1-1	1-2	1-2	1-2	1-3	1-3	1-4	1-4	1-4
100.00	1-10	1-11	2-0	2-1	2-2	2-2	2-3	2-4	2-5	2-5
125.00	2-11	3-0	3-2	3-3	3-4	3-5	3-6	3-8	3-9	3-10
150.00	4-3	4-4	4-6	4-8	4-10	4-11	5-1	5-3	5-4	5-6
175.00	5-9	5-11	6-2	6-4	6-7	6-9	6-11	7-1	7-4	7-6
200.00	7-6	7-9	8-1	8-4	8-7	8-10	9-1	9-4	9-7	9-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>179 OF 215</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH822.179</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING</p> <p>3/0 RTS TRIPLEX TENSION 1500 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-10	5-10	5-10	5-10	5-10	5-11	5-11	5-11	5-11	5-11
175.00	7-11	7-11	7-11	8-0	8-0	8-0	8-0	8-1	8-1	8-1
200.00	10-4	10-4	10-5	10-5	10-5	10-6	10-6	10-6	10-6	10-7
225.00	13-1	13-1	13-2	13-2	13-3	13-3	13-3	13-4	13-4	13-5
250.00	16-2	16-3	16-3	16-4	16-4	16-5	16-5	16-6	16-6	16-6
275.00	19-7	19-8	19-8	19-9	19-10	19-10	19-11	19-11	20-0	20-0
300.00	23-4	23-5	23-6	23-6	23-7	23-8	23-8	23-9	23-10	23-10
325.00	27-5	27-6	27-7	27-8	27-9	27-9	27-10	27-11	28-0	28-1
350.00	31-11	31-11	32-0	32-1	32-2	32-3	32-4	32-5	32-6	32-7
375.00	36-8	36-9	36-10	36-11	37-0	37-1	37-3	37-4	37-5	37-6

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-10	5-10	5-10	5-10	5-10	5-11	5-11	5-11	5-11	5-11
175.00	7-11	7-11	7-11	8-0	8-0	8-0	8-0	8-1	8-1	8-1
200.00	10-4	10-4	10-5	10-5	10-5	10-6	10-6	10-6	10-7	10-7
225.00	13-1	13-2	13-2	13-2	13-3	13-3	13-4	13-4	13-4	13-5
250.00	16-2	16-3	16-3	16-4	16-4	16-5	16-5	16-6	16-6	16-7
275.00	19-8	19-8	19-9	19-9	19-10	19-10	19-11	20-0	20-0	20-1
300.00	23-5	23-5	23-6	23-7	23-7	23-8	23-9	23-9	23-10	23-11
325.00	27-6	27-7	27-7	27-8	27-9	27-10	27-11	27-11	28-0	28-1
350.00	31-11	32-0	32-1	32-2	32-3	32-4	32-5	32-6	32-7	32-8
375.00	36-8	36-10	36-11	37-0	37-1	37-2	37-3	37-4	37-5	37-6

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>181 OF 215</div>		Indicates Latest Revision			Completely Revised	X	New Page	Information Removed			OH822.181
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	10-8	10-8	10-8	10-8	10-8	10-8	10-9	10-9	10-9	10-9
225.00	13-6	13-6	13-6	13-6	13-7	13-7	13-7	13-7	13-7	13-8
250.00	16-8	16-8	16-8	16-9	16-9	16-9	16-9	16-10	16-10	16-10
275.00	20-2	20-2	20-3	20-3	20-3	20-4	20-4	20-4	20-5	20-5
300.00	24-0	24-1	24-1	24-2	24-2	24-2	24-3	24-3	24-4	24-4
325.00	28-3	28-3	28-4	28-4	28-5	28-5	28-6	28-6	28-7	28-7
350.00	32-10	32-10	32-11	32-11	33-0	33-0	33-1	33-1	33-2	33-2
375.00	37-9	37-9	37-10	37-11	37-11	38-0	38-0	38-1	38-2	38-2
400.00	43-0	43-1	43-2	43-2	43-3	43-4	43-4	43-5	43-6	43-6
425.00	48-8	48-9	48-9	48-10	48-11	49-0	49-1	49-1	49-2	49-3
450.00	54-8	54-9	54-10	54-11	54-11	55-0	55-1	55-2	55-3	55-4
475.00	61-0	61-1	61-2	61-3	61-4	61-5	61-6	61-7	61-8	61-9
500.00	67-9	67-10	67-11	68-1	68-2	68-3	68-4	68-5	68-6	68-7

Stringing Sag Table Using Final Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	10-8	10-8	10-8	10-8	10-8	10-9	10-9	10-9	10-9	10-9
225.00	13-6	13-6	13-6	13-6	13-7	13-7	13-7	13-7	13-7	13-8
250.00	16-8	16-8	16-8	16-9	16-9	16-9	16-10	16-10	16-10	16-10
275.00	20-2	20-3	20-3	20-3	20-3	20-4	20-4	20-4	20-5	20-5
300.00	24-1	24-1	24-1	24-2	24-2	24-3	24-3	24-3	24-4	24-4
325.00	28-3	28-4	28-4	28-5	28-5	28-5	28-6	28-6	28-7	28-7
350.00	32-10	32-11	32-11	33-0	33-0	33-1	33-1	33-2	33-2	33-3
375.00	37-9	37-10	37-10	37-11	38-0	38-0	38-1	38-1	38-2	38-3
400.00	43-1	43-1	43-2	43-3	43-3	43-4	43-5	43-5	43-6	43-7
425.00	48-8	48-9	48-10	48-11	48-11	49-0	49-1	49-2	49-2	49-3
450.00	54-8	54-9	54-10	54-11	55-0	55-1	55-2	55-2	55-3	55-4
475.00	61-1	61-2	61-3	61-4	61-5	61-6	61-7	61-8	61-9	61-10
500.00	67-10	67-11	68-0	68-1	68-2	68-3	68-4	68-6	68-7	68-8

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 182 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH822.182
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS					

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>185 OF 215</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH822.185	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	3.13	50.94	2000	50.94	2000*
20	0	0	0	0.629	49.79	411	49.73	411
30	0	0	0	0.629	49.87	410	49.81	410
40	0	0	0	0.629	49.94	409	49.89	410
50	0	0	0	0.629	50.02	409	49.96	409
60	0	0	0	0.629	50.09	408	50.04	409
70	0	0	0	0.629	50.17	408	50.12	408
80	0	0	0	0.629	50.25	407	50.2	407
90	0	0	0	0.629	50.32	406	50.27	407
100	0	0	0	0.629	50.4	406	50.35	406
110	0	0	0	0.629	50.47	405	50.43	406
120	0	0	0	0.629	50.55	405	50.5	405
130	0	0	0	0.629	50.62	404	50.57	405
167	0	0	0	0.629	50.88	402	50.82	403
212	0	0	0	0.629	51.19	400	51.13	401
* Design Condition								

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>186 OF 215</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH822.186</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING</p> <p>3/0 RTS TRIPLEX TENSION 2000 LBS</p> </div>					

Completely Revised

 New Page

OH822.186

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10
100.00	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6
125.00	1-2	1-4	1-5	1-6	1-8	1-9	1-11	2-0	2-2	2-3
150.00	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-1	3-4
175.00	2-4	2-7	2-9	3-0	3-3	3-6	3-9	4-0	4-3	4-6
200.00	3-1	3-4	3-8	3-11	4-3	4-7	4-11	5-3	5-7	5-10

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-10
100.00	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6
125.00	1-3	1-4	1-6	1-7	1-9	1-10	2-0	2-1	2-3	2-4
150.00	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-0	3-3	3-5
175.00	2-6	2-8	2-11	3-2	3-5	3-8	3-11	4-2	4-5	4-7
200.00	3-3	3-6	3-9	4-1	4-5	4-9	5-1	5-5	5-9	6-0

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 187 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH822.187
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 111MPH LIGHT LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-8	1-8	1-8	1-9	1-9	1-9	1-9	1-10	1-10	1-10
125.00	2-7	2-7	2-8	2-8	2-9	2-9	2-9	2-10	2-10	2-10
150.00	3-9	3-9	3-10	3-10	3-11	3-11	4-0	4-1	4-1	4-2
175.00	5-1	5-2	5-2	5-3	5-4	5-5	5-5	5-6	5-7	5-8
200.00	6-7	6-8	6-9	6-10	6-11	7-0	7-1	7-2	7-3	7-4
225.00	8-4	8-6	8-7	8-8	8-10	8-11	9-0	9-1	9-3	9-4
250.00	10-4	10-6	10-7	10-9	10-10	11-0	11-2	11-3	11-5	11-6

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-8	1-8	1-9	1-9	1-9	1-9	1-9	1-10	1-10	1-10
125.00	2-7	2-8	2-8	2-8	2-9	2-9	2-10	2-10	2-10	2-11
150.00	3-9	3-10	3-10	3-11	3-11	4-0	4-0	4-1	4-1	4-2
175.00	5-1	5-2	5-3	5-4	5-4	5-5	5-6	5-7	5-7	5-8
200.00	6-8	6-9	6-10	6-11	7-0	7-1	7-2	7-3	7-4	7-5
225.00	8-5	8-7	8-8	8-9	8-10	9-0	9-1	9-2	9-3	9-5
250.00	10-5	10-7	10-8	10-10	11-0	11-1	11-3	11-4	11-6	11-7

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Stringing Sag Table Using Initial Sag							Ruling Span:	300.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-2	4-2	4-2	4-2	4-3	4-3	4-3	4-3	4-4	4-4
175.00	5-8	5-8	5-8	5-9	5-9	5-9	5-10	5-10	5-10	5-11
200.00	7-4	7-5	7-5	7-6	7-6	7-7	7-7	7-7	7-8	7-8
225.00	9-4	9-5	9-5	9-6	9-6	9-7	9-7	9-8	9-8	9-9
250.00	11-6	11-7	11-8	11-8	11-9	11-10	11-10	11-11	12-0	12-0
275.00	14-0	14-0	14-1	14-2	14-3	14-4	14-4	14-5	14-6	14-7
300.00	16-8	16-8	16-9	16-10	16-11	17-0	17-1	17-2	17-3	17-4
325.00	19-6	19-7	19-9	19-10	19-11	20-0	20-1	20-2	20-3	20-4
350.00	22-8	22-9	22-11	23-0	23-1	23-3	23-4	23-5	23-6	23-8
375.00	26-0	26-2	26-3	26-5	26-7	26-8	26-10	26-11	27-0	27-2

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-2	4-2	4-2	4-3	4-3	4-3	4-3	4-4	4-4	4-4
175.00	5-8	5-8	5-9	5-9	5-9	5-10	5-10	5-10	5-10	5-11
200.00	7-5	7-5	7-6	7-6	7-6	7-7	7-7	7-8	7-8	7-8
225.00	9-4	9-5	9-5	9-6	9-7	9-7	9-8	9-8	9-9	9-9
250.00	11-7	11-8	11-8	11-9	11-9	11-10	11-11	11-11	12-0	12-1
275.00	14-0	14-1	14-2	14-3	14-3	14-4	14-5	14-6	14-6	14-7
300.00	16-8	16-9	16-10	16-11	17-0	17-1	17-2	17-3	17-4	17-5
325.00	19-7	19-8	19-9	19-10	20-0	20-1	20-2	20-3	20-4	20-5
350.00	22-9	22-10	23-0	23-1	23-2	23-3	23-5	23-6	23-7	23-8
375.00	26-2	26-3	26-5	26-6	26-8	26-9	26-10	27-0	27-1	27-3

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 189 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.189
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING 3/O RTS TRIPLEX TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-8	7-8	7-9	7-9	7-9	7-9	7-10	7-10	7-10	7-10
225.00	9-9	9-9	9-9	9-10	9-10	9-10	9-10	9-11	9-11	9-11
250.00	12-0	12-0	12-1	12-1	12-2	12-2	12-2	12-3	12-3	12-3
275.00	14-6	14-7	14-7	14-8	14-8	14-9	14-9	14-10	14-10	14-10
300.00	17-4	17-4	17-5	17-5	17-6	17-6	17-7	17-7	17-8	17-9
325.00	20-4	20-5	20-5	20-6	20-7	20-7	20-8	20-8	20-9	20-10
350.00	23-7	23-8	23-9	23-9	23-10	23-11	24-0	24-0	24-1	24-2
375.00	27-1	27-2	27-3	27-4	27-5	27-6	27-6	27-7	27-8	27-9
400.00	30-11	31-0	31-1	31-1	31-2	31-3	31-4	31-5	31-6	31-7
425.00	34-11	35-0	35-1	35-2	35-3	35-4	35-5	35-6	35-7	35-8
450.00	39-2	39-3	39-5	39-6	39-7	39-8	39-9	39-10	40-0	40-1
475.00	43-8	43-10	43-11	44-0	44-2	44-3	44-4	44-6	44-7	44-8
500.00	48-6	48-7	48-9	48-10	49-0	49-1	49-3	49-4	49-6	49-7

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-8	7-9	7-9	7-9	7-9	7-9	7-10	7-10	7-10	7-10
225.00	9-9	9-9	9-9	9-10	9-10	9-10	9-11	9-11	9-11	9-11
250.00	12-0	12-1	12-1	12-1	12-2	12-2	12-3	12-3	12-3	12-4
275.00	14-7	14-7	14-8	14-8	14-9	14-9	14-9	14-10	14-10	14-11
300.00	17-4	17-5	17-5	17-6	17-6	17-7	17-7	17-8	17-8	17-9
325.00	20-5	20-5	20-6	20-6	20-7	20-8	20-8	20-9	20-9	20-10
350.00	23-8	23-9	23-9	23-10	23-11	23-11	24-0	24-1	24-1	24-2
375.00	27-2	27-3	27-4	27-5	27-5	27-6	27-7	27-8	27-9	27-9
400.00	30-11	31-0	31-1	31-2	31-3	31-4	31-5	31-6	31-7	31-8
425.00	35-0	35-1	35-2	35-3	35-4	35-5	35-6	35-7	35-8	35-9
450.00	39-3	39-4	39-5	39-7	39-8	39-9	39-10	39-11	40-0	40-2
475.00	43-9	43-11	44-0	44-1	44-3	44-4	44-5	44-7	44-8	44-9
500.00	48-7	48-8	48-10	48-11	49-1	49-2	49-4	49-5	49-7	49-8

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 190 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH822.190
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS										

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>193 OF 215</h2> </div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH822.193	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	3.13	121.11	1000	121.11	1000*
0	0	0	0	0.629	120.81	201	120.79	201
30	0	0	0	0.629	120.92	201	120.9	201
40	0	0	0	0.629	120.96	201	120.94	201
50	0	0	0	0.629	120.99	201	120.98	201
60	0	0	0	0.629	121.03	201	121.02	201
70	0	0	0	0.629	121.06	201	121.05	201
80	0	0	0	0.629	121.1	201	121.09	201
90	0	0	0	0.629	121.14	201	121.13	201
100	0	0	0	0.629	121.17	201	121.16	201
110	0	0	0	0.629	121.21	201	121.19	201
120	0	0	0	0.629	121.24	201	121.23	201
130	0	0	0	0.629	121.28	201	121.26	201
167	0	0	0	0.629	121.4	201	121.38	201
212	0	0	0	0.629	121.55	201	121.53	201

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>194 OF 215</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH822.194</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING</p> <p>3/0 RTS TRIPLEX TENSION 1000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag										Ruling Span: 100.0 Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-1	2-1	2-1	2-2	2-2	2-2	2-2	2-3	2-3	2-3
100.00	3-8	3-9	3-9	3-10	3-10	3-11	3-11	3-11	4-0	4-0
125.00	5-9	5-10	5-11	5-11	6-0	6-1	6-2	6-2	6-3	6-4
150.00	8-4	8-5	8-6	8-7	8-8	8-9	8-10	8-11	9-0	9-1
175.00	11-4	11-5	11-7	11-8	11-10	11-11	12-1	12-2	12-3	12-5
200.00	14-10	15-0	15-2	15-4	15-6	15-8	15-9	15-11	16-1	16-2

Stringing Sag Table Using Final Sag										Ruling Span: 100.0 Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-1	2-1	2-1	2-2	2-2	2-2	2-3	2-3	2-3	2-3
100.00	3-8	3-9	3-9	3-10	3-10	3-11	3-11	4-0	4-0	4-1
125.00	5-9	5-10	5-11	6-0	6-0	6-1	6-2	6-3	6-3	6-4
150.00	8-4	8-5	8-6	8-7	8-8	8-9	8-10	8-11	9-0	9-1
175.00	11-5	11-6	11-7	11-9	11-10	12-0	12-1	12-3	12-4	12-5
200.00	14-11	15-1	15-3	15-4	15-6	15-8	15-10	16-0	16-2	16-3

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 195 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH822.195
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-11	3-11	3-11	3-11	4-0	4-0	4-0	4-0	4-0	4-0
125.00	6-2	6-2	6-2	6-2	6-2	6-3	6-3	6-3	6-3	6-3
150.00	8-10	8-11	8-11	8-11	8-11	9-0	9-0	9-0	9-0	9-1
175.00	12-1	12-1	12-2	12-2	12-2	12-3	12-3	12-3	12-4	12-4
200.00	15-10	15-10	15-11	15-11	16-0	16-0	16-0	16-1	16-1	16-2
225.00	20-1	20-1	20-2	20-2	20-3	20-4	20-4	20-5	20-5	20-6
250.00	24-10	24-10	24-11	25-0	25-1	25-1	25-2	25-3	25-3	25-4

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-11	3-11	3-11	4-0	4-0	4-0	4-0	4-0	4-0	4-0
125.00	6-2	6-2	6-2	6-2	6-2	6-3	6-3	6-3	6-3	6-3
150.00	8-10	8-11	8-11	8-11	8-11	9-0	9-0	9-0	9-0	9-1
175.00	12-1	12-1	12-2	12-2	12-2	12-3	12-3	12-4	12-4	12-4
200.00	15-10	15-10	15-11	15-11	16-0	16-0	16-1	16-1	16-1	16-2
225.00	20-1	20-1	20-2	20-3	20-3	20-4	20-4	20-5	20-5	20-6
250.00	24-10	24-11	24-11	25-0	25-1	25-2	25-2	25-3	25-4	25-4

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C						F						
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 196 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH822.196
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1000 LBS										

Stringing Sag Table Using Initial Sag							Ruling Span: 300.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	9-2	9-2	9-2	9-2	9-2	9-2	9-3	9-3	9-3	9-3
175.00	12-6	12-6	12-6	12-6	12-6	12-7	12-7	12-7	12-7	12-7
200.00	16-4	16-4	16-4	16-5	16-5	16-5	16-5	16-5	16-6	16-6
225.00	20-9	20-9	20-9	20-9	20-10	20-10	20-10	20-10	20-11	20-11
250.00	25-8	25-8	25-9	25-9	25-9	25-9	25-10	25-10	25-10	25-11
275.00	31-2	31-2	31-2	31-3	31-3	31-4	31-4	31-4	31-5	31-5
300.00	37-2	37-2	37-3	37-3	37-4	37-4	37-5	37-5	37-6	37-6
325.00	43-9	43-10	43-10	43-11	43-11	44-0	44-1	44-1	44-2	44-2
350.00	50-11	51-0	51-1	51-1	51-2	51-3	51-3	51-4	51-4	51-5
375.00	58-9	58-9	58-10	58-11	59-0	59-0	59-1	59-2	59-2	59-3

Stringing Sag Table Using Final Sag							Ruling Span:		300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	9-2	9-2	9-2	9-2	9-2	9-2	9-3	9-3	9-3	9-3
175.00	12-6	12-6	12-6	12-6	12-6	12-7	12-7	12-7	12-7	12-7
200.00	16-4	16-4	16-5	16-5	16-5	16-5	16-5	16-6	16-6	16-6
225.00	20-9	20-9	20-9	20-10	20-10	20-10	20-10	20-11	20-11	20-11
250.00	25-8	25-8	25-9	25-9	25-9	25-10	25-10	25-10	25-10	25-11
275.00	31-2	31-2	31-3	31-3	31-3	31-4	31-4	31-4	31-5	31-5
300.00	37-2	37-3	37-3	37-4	37-4	37-4	37-5	37-5	37-6	37-6
325.00	43-9	43-10	43-11	43-11	44-0	44-0	44-1	44-1	44-2	44-2
350.00	51-0	51-0	51-1	51-2	51-2	51-3	51-3	51-4	51-5	51-5
375.00	58-9	58-10	58-10	58-11	59-0	59-1	59-1	59-2	59-3	59-3

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 197 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.197
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	17-1	17-1	17-1	17-1	17-1	17-1	17-1	17-1	17-1	17-2
225.00	21-8	21-8	21-8	21-8	21-8	21-8	21-8	21-9	21-9	21-9
250.00	26-10	26-10	26-10	26-10	26-10	26-10	26-11	26-11	26-11	26-11
275.00	32-6	32-6	32-7	32-7	32-7	32-7	32-7	32-8	32-8	32-8
300.00	38-10	38-10	38-10	38-11	38-11	38-11	38-11	39-0	39-0	39-0
325.00	45-9	45-9	45-10	45-10	45-10	45-10	45-11	45-11	45-11	45-11
350.00	53-3	53-4	53-4	53-4	53-5	53-5	53-5	53-6	53-6	53-6
375.00	61-5	61-5	61-6	61-6	61-6	61-7	61-7	61-8	61-8	61-8
400.00	70-2	70-3	70-3	70-4	70-4	70-5	70-5	70-5	70-6	70-6
425.00	79-7	79-8	79-9	79-9	79-10	79-10	79-11	79-11	80-0	80-0
450.00	89-9	89-9	89-10	89-11	89-11	90-0	90-0	90-1	90-1	90-2
475.00	100-6	100-7	100-8	100-8	100-9	100-10	100-10	100-11	101-0	101-0
500.00	112-0	112-1	112-2	112-2	112-3	112-4	112-5	112-5	112-6	112-7

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	17-1	17-1	17-1	17-1	17-1	17-1	17-1	17-1	17-2	17-2
225.00	21-8	21-8	21-8	21-8	21-8	21-8	21-9	21-9	21-9	21-9
250.00	26-10	26-10	26-10	26-10	26-10	26-10	26-11	26-11	26-11	26-11
275.00	32-6	32-7	32-7	32-7	32-7	32-7	32-8	32-8	32-8	32-8
300.00	38-10	38-10	38-11	38-11	38-11	38-11	39-0	39-0	39-0	39-0
325.00	45-9	45-9	45-10	45-10	45-10	45-10	45-11	45-11	45-11	46-0
350.00	53-3	53-4	53-4	53-4	53-5	53-5	53-5	53-6	53-6	53-6
375.00	61-5	61-5	61-6	61-6	61-7	61-7	61-7	61-8	61-8	61-9
400.00	70-2	70-3	70-3	70-4	70-4	70-5	70-5	70-6	70-6	70-6
425.00	79-8	79-8	79-9	79-9	79-10	79-10	79-11	79-11	80-0	80-0
450.00	89-9	89-10	89-10	89-11	89-11	90-0	90-0	90-1	90-2	90-2
475.00	100-7	100-7	100-8	100-8	100-9	100-10	100-10	100-11	101-0	101-0
500.00	112-1	112-1	112-2	112-3	112-3	112-4	112-5	112-6	112-6	112-7

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> SHEET 198 OF 215 </div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.198
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1000 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	3.13	10.55	1500	10.55	1500*
0	0	0	0	0.629	9.91	321	9.87	322
30	0	0	0	0.629	10.08	315	10.05	316
40	0	0	0	0.629	10.14	313	10.11	314
50	0	0	0	0.629	10.2	312	10.17	313
60	0	0	0	0.629	10.26	310	10.23	311
70	0	0	0	0.629	10.31	308	10.29	309
80	0	0	0	0.629	10.37	307	10.34	307
90	0	0	0	0.629	10.43	305	10.4	306
100	0	0	0	0.629	10.48	303	10.46	304
110	0	0	0	0.629	10.54	302	10.51	303
120	0	0	0	0.629	10.6	300	10.56	301
130	0	0	0	0.629	10.65	299	10.61	300
167	0	0	0	0.629	10.83	294	10.8	295
212	0	0	0	0.629	11.05	288	11.02	289

* Design Condition

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C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D							
SHEET 200 OF 215		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH822.200
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS											

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	31.5	0	3.13	70.41	1500	70.41	1500*
0	0	0	0	0.629	69.78	304	69.74	304
30	0	0	0	0.629	69.95	303	69.92	303
40	0	0	0	0.629	70.01	303	69.98	303
50	0	0	0	0.629	70.06	303	70.03	303
60	0	0	0	0.629	70.12	303	70.09	303
70	0	0	0	0.629	70.18	302	70.15	302
80	0	0	0	0.629	70.23	302	70.21	302
90	0	0	0	0.629	70.29	302	70.26	302
100	0	0	0	0.629	70.34	302	70.32	302
110	0	0	0	0.629	70.4	301	70.37	302
120	0	0	0	0.629	70.46	301	70.42	301
130	0	0	0	0.629	70.51	301	70.47	301
167	0	0	0	0.629	70.7	300	70.66	301
212	0	0	0	0.629	70.93	300	70.89	300
* Design Condition								

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>202 OF 215</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH822.202</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING</p> <p>3/0 RTS TRIPLEX TENSION 1500 LBS</p> </div>						

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-10	5-10	5-10	5-11	5-11	5-11	5-11	5-11	6-0	6-0
175.00	8-0	8-0	8-0	8-0	8-0	8-1	8-1	8-1	8-1	8-2
200.00	10-5	10-5	10-6	10-6	10-6	10-6	10-7	10-7	10-7	10-8
225.00	13-2	13-3	13-3	13-3	13-4	13-4	13-5	13-5	13-5	13-6
250.00	16-4	16-4	16-5	16-5	16-5	16-6	16-6	16-7	16-7	16-8
275.00	19-9	19-9	19-10	19-11	19-11	20-0	20-0	20-1	20-2	20-2
300.00	23-6	23-7	23-8	23-8	23-9	23-10	23-11	23-11	24-0	24-1
325.00	27-8	27-9	27-9	27-10	27-11	28-0	28-1	28-2	28-2	28-3
350.00	32-1	32-2	32-3	32-4	32-5	32-6	32-7	32-8	32-9	32-10
375.00	36-11	37-0	37-1	37-2	37-4	37-5	37-6	37-7	37-8	37-9

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-10	5-10	5-11	5-11	5-11	5-11	5-11	5-11	6-0	6-0
175.00	8-0	8-0	8-0	8-0	8-1	8-1	8-1	8-1	8-2	8-2
200.00	10-5	10-5	10-6	10-6	10-6	10-7	10-7	10-7	10-7	10-8
225.00	13-2	13-3	13-3	13-4	13-4	13-4	13-5	13-5	13-6	13-6
250.00	16-4	16-4	16-5	16-5	16-6	16-6	16-7	16-7	16-8	16-8
275.00	19-9	19-10	19-10	19-11	20-0	20-0	20-1	20-1	20-2	20-2
300.00	23-7	23-7	23-8	23-9	23-9	23-10	23-11	23-11	24-0	24-1
325.00	27-8	27-9	27-10	27-11	27-11	28-0	28-1	28-2	28-3	28-3
350.00	32-2	32-3	32-4	32-5	32-6	32-7	32-8	32-8	32-9	32-10
375.00	37-0	37-1	37-2	37-3	37-4	37-5	37-6	37-7	37-8	37-9

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 205 OF 215	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH822.205
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	10-8	10-8	10-8	10-9	10-9	10-9	10-9	10-9	10-9	10-10
225.00	13-6	13-6	13-7	13-7	13-7	13-7	13-8	13-8	13-8	13-8
250.00	16-9	16-9	16-9	16-9	16-10	16-10	16-10	16-10	16-11	16-11
275.00	20-3	20-3	20-4	20-4	20-4	20-5	20-5	20-5	20-6	20-6
300.00	24-2	24-2	24-2	24-3	24-3	24-3	24-4	24-4	24-5	24-5
325.00	28-4	28-5	28-5	28-6	28-6	28-7	28-7	28-8	28-8	28-8
350.00	32-11	33-0	33-0	33-1	33-1	33-2	33-3	33-3	33-4	33-4
375.00	37-11	37-11	38-0	38-0	38-1	38-2	38-2	38-3	38-3	38-4
400.00	43-2	43-3	43-4	43-4	43-5	43-6	43-6	43-7	43-8	43-8
425.00	48-10	48-11	49-0	49-0	49-1	49-2	49-3	49-4	49-4	49-5
450.00	54-10	54-11	55-0	55-1	55-2	55-3	55-4	55-5	55-6	55-6
475.00	61-3	61-4	61-5	61-6	61-7	61-8	61-9	61-10	61-11	62-0
500.00	68-1	68-2	68-3	68-4	68-5	68-6	68-7	68-8	68-9	68-10

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	10-8	10-8	10-9	10-9	10-9	10-9	10-9	10-9	10-10	10-10
225.00	13-6	13-7	13-7	13-7	13-7	13-7	13-8	13-8	13-8	13-8
250.00	16-9	16-9	16-9	16-10	16-10	16-10	16-10	16-11	16-11	16-11
275.00	20-3	20-3	20-4	20-4	20-4	20-5	20-5	20-5	20-6	20-6
300.00	24-2	24-2	24-3	24-3	24-3	24-4	24-4	24-4	24-5	24-5
325.00	28-5	28-5	28-5	28-6	28-6	28-7	28-7	28-8	28-8	28-9
350.00	33-0	33-0	33-1	33-1	33-2	33-2	33-3	33-3	33-4	33-4
375.00	37-11	38-0	38-0	38-1	38-1	38-2	38-3	38-3	38-4	38-4
400.00	43-3	43-3	43-4	43-5	43-5	43-6	43-7	43-7	43-8	43-9
425.00	48-11	48-11	49-0	49-1	49-2	49-2	49-3	49-4	49-5	49-6
450.00	54-11	55-0	55-1	55-2	55-2	55-3	55-4	55-5	55-6	55-7
475.00	61-4	61-5	61-6	61-7	61-8	61-9	61-10	61-11	62-0	62-1
500.00	68-1	68-2	68-3	68-4	68-6	68-7	68-8	68-9	68-10	68-11

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 206 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.206
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 1500 LBS									

Span = 100 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	3.13	1.96	2000	1.96	2000*
0	0	0	0	0.629	0.87	901	0.83	943
30	0	0	0	0.629	1.11	712	1.06	745
40	0	0	0	0.629	1.19	663	1.13	693
50	0	0	0	0.629	1.27	621	1.22	647
60	0	0	0	0.629	1.35	584	1.3	607
70	0	0	0	0.629	1.43	551	1.38	571
80	0	0	0	0.629	1.51	522	1.46	540
90	0	0	0	0.629	1.58	497	1.54	512
100	0	0	0	0.629	1.66	474	1.61	488
110	0	0	0	0.629	1.73	454	1.69	466
120	0	0	0	0.629	1.81	436	1.76	447
130	0	0	0	0.629	1.87	420	1.83	431
167	0	0	0	0.629	2.1	375	2.05	384
212	0	0	0	0.629	2.35	336	2.3	342

* Design Condition

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	3.13	7.87	2000	7.87	2000*
0	0	0	0	0.629	6.76	467	6.69	472
30	0	0	0	0.629	7.01	451	6.94	455
40	0	0	0	0.629	7.09	446	7.03	450
50	0	0	0	0.629	7.17	441	7.11	445
60	0	0	0	0.629	7.25	436	7.19	440
70	0	0	0	0.629	7.33	432	7.27	435
80	0	0	0	0.629	7.4	427	7.35	430
90	0	0	0	0.629	7.48	423	7.43	426
100	0	0	0	0.629	7.56	419	7.51	421
110	0	0	0	0.629	7.63	414	7.59	417
120	0	0	0	0.629	7.71	410	7.66	413
130	0	0	0	0.629	7.78	407	7.73	409
167	0	0	0	0.629	8.03	394	7.97	397
212	0	0	0	0.629	8.32	381	8.27	383

* Design Condition

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 208 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.208
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	3.13	50.94	2000	50.94	2000*
0	0	0	0	0.629	49.87	410	49.8	410
30	0	0	0	0.629	50.09	408	50.03	409
40	0	0	0	0.629	50.17	408	50.11	408
50	0	0	0	0.629	50.25	407	50.19	407
60	0	0	0	0.629	50.32	406	50.27	407
70	0	0	0	0.629	50.4	406	50.34	406
80	0	0	0	0.629	50.47	405	50.42	406
90	0	0	0	0.629	50.55	405	50.5	405
100	0	0	0	0.629	50.62	404	50.58	405
110	0	0	0	0.629	50.7	404	50.65	404
120	0	0	0	0.629	50.77	403	50.72	404
130	0	0	0	0.629	50.85	403	50.79	403
167	0	0	0	0.629	51.1	401	51.05	401
212	0	0	0	0.629	51.41	399	51.35	399

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>210 OF 215</p> </div>	Indicates Latest Revision	Completely Revised	<div style="border: 1px solid black; padding: 2px; text-align: center;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH822.210</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING</p> <p>3/0 RTS TRIPLEX TENSION 2000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11
100.00	1-0	1-1	1-2	1-3	1-4	1-5	1-5	1-6	1-7	1-8
125.00	1-6	1-8	1-9	1-11	2-0	2-2	2-3	2-5	2-6	2-8
150.00	2-2	2-4	2-7	2-9	2-11	3-1	3-3	3-5	3-8	3-10
175.00	3-0	3-3	3-6	3-9	4-0	4-3	4-6	4-8	4-11	5-2
200.00	3-11	4-3	4-6	4-10	5-2	5-6	5-10	6-2	6-6	6-9

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-7	0-7	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0
100.00	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
125.00	1-7	1-9	1-10	2-0	2-1	2-3	2-4	2-6	2-7	2-9
150.00	2-4	2-6	2-8	2-10	3-0	3-3	3-5	3-7	3-9	3-11
175.00	3-2	3-5	3-8	3-11	4-2	4-5	4-7	4-10	5-1	5-4
200.00	4-1	4-5	4-9	5-1	5-5	5-9	6-0	6-4	6-8	6-11

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>211 OF 215</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH822.211</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING</p> <p>3/0 RTS TRIPLEX TENSION 2000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-9	1-9	1-9	1-9	1-10	1-10	1-10	1-10	1-10	1-11
125.00	2-8	2-9	2-9	2-9	2-10	2-10	2-10	2-11	2-11	3-0
150.00	3-10	3-11	3-11	4-0	4-1	4-1	4-2	4-2	4-3	4-3
175.00	5-3	5-4	5-5	5-5	5-6	5-7	5-8	5-8	5-9	5-10
200.00	6-10	6-11	7-0	7-1	7-2	7-3	7-4	7-5	7-6	7-7
225.00	8-8	8-10	8-11	9-0	9-1	9-2	9-4	9-5	9-6	9-7
250.00	10-9	10-10	11-0	11-1	11-3	11-4	11-6	11-7	11-9	11-10

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-9	1-9	1-9	1-9	1-10	1-10	1-10	1-10	1-11	1-11
125.00	2-8	2-9	2-9	2-10	2-10	2-10	2-11	2-11	2-11	3-0
150.00	3-11	3-11	4-0	4-0	4-1	4-1	4-2	4-2	4-3	4-3
175.00	5-4	5-4	5-5	5-6	5-7	5-7	5-8	5-9	5-9	5-10
200.00	6-11	7-0	7-1	7-2	7-3	7-4	7-5	7-6	7-7	7-8
225.00	8-9	8-10	9-0	9-1	9-2	9-3	9-5	9-6	9-7	9-8
250.00	10-10	11-0	11-1	11-3	11-4	11-6	11-7	11-8	11-10	11-11

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 212 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.212
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-2	4-3	4-3	4-3	4-3	4-4	4-4	4-4	4-4	4-5
175.00	5-9	5-9	5-9	5-10	5-10	5-10	5-11	5-11	5-11	6-0
200.00	7-6	7-6	7-7	7-7	7-7	7-8	7-8	7-9	7-9	7-9
225.00	9-6	9-6	9-7	9-7	9-8	9-8	9-9	9-9	9-10	9-10
250.00	11-8	11-9	11-10	11-10	11-11	12-0	12-0	12-1	12-2	12-2
275.00	14-2	14-3	14-3	14-4	14-5	14-6	14-7	14-7	14-8	14-9
300.00	16-10	16-11	17-0	17-1	17-2	17-3	17-4	17-5	17-6	17-7
325.00	19-10	19-11	20-0	20-1	20-2	20-3	20-4	20-5	20-7	20-8
350.00	23-0	23-1	23-2	23-4	23-5	23-6	23-8	23-9	23-10	23-11
375.00	26-5	26-6	26-8	26-9	26-11	27-0	27-2	27-3	27-5	27-6

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-3	4-3	4-3	4-3	4-4	4-4	4-4	4-4	4-4	4-5
175.00	5-9	5-9	5-10	5-10	5-10	5-10	5-11	5-11	5-11	6-0
200.00	7-6	7-6	7-7	7-7	7-8	7-8	7-8	7-9	7-9	7-10
225.00	9-6	9-7	9-7	9-8	9-8	9-9	9-9	9-10	9-10	9-11
250.00	11-9	11-9	11-10	11-11	11-11	12-0	12-1	12-1	12-2	12-3
275.00	14-3	14-3	14-4	14-5	14-6	14-6	14-7	14-8	14-9	14-9
300.00	16-11	17-0	17-1	17-2	17-3	17-4	17-5	17-6	17-6	17-7
325.00	19-10	20-0	20-1	20-2	20-3	20-4	20-5	20-6	20-7	20-8
350.00	23-1	23-2	23-3	23-5	23-6	23-7	23-8	23-10	23-11	24-0
375.00	26-6	26-8	26-9	26-10	27-0	27-1	27-3	27-4	27-6	27-7

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SHEET 213 OF 215		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.213
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-9	7-9	7-9	7-9	7-10	7-10	7-10	7-10	7-11	7-11
225.00	9-10	9-10	9-10	9-10	9-11	9-11	9-11	10-0	10-0	10-0
250.00	12-1	12-2	12-2	12-2	12-3	12-3	12-3	12-4	12-4	12-4
275.00	14-8	14-8	14-9	14-9	14-10	14-10	14-10	14-11	14-11	15-0
300.00	17-5	17-6	17-6	17-7	17-7	17-8	17-8	17-9	17-9	17-10
325.00	20-6	20-6	20-7	20-8	20-8	20-9	20-10	20-10	20-11	20-11
350.00	23-9	23-10	23-11	24-0	24-0	24-1	24-2	24-2	24-3	24-4
375.00	27-4	27-5	27-6	27-6	27-7	27-8	27-9	27-10	27-10	27-11
400.00	31-1	31-2	31-3	31-4	31-5	31-6	31-7	31-8	31-9	31-10
425.00	35-2	35-3	35-4	35-5	35-6	35-7	35-8	35-9	35-10	36-0
450.00	39-6	39-7	39-8	39-9	39-10	40-0	40-1	40-2	40-3	40-4
475.00	44-0	44-2	44-3	44-4	44-6	44-7	44-8	44-10	44-11	45-0
500.00	48-10	49-0	49-1	49-3	49-4	49-5	49-7	49-8	49-10	49-11

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-9	7-9	7-9	7-10	7-10	7-10	7-10	7-11	7-11	7-11
225.00	9-10	9-10	9-10	9-11	9-11	9-11	9-11	10-0	10-0	10-0
250.00	12-1	12-2	12-2	12-3	12-3	12-3	12-4	12-4	12-4	12-5
275.00	14-8	14-9	14-9	14-9	14-10	14-10	14-11	14-11	15-0	15-0
300.00	17-6	17-6	17-7	17-7	17-8	17-8	17-9	17-9	17-10	17-10
325.00	20-6	20-7	20-8	20-8	20-9	20-9	20-10	20-11	20-11	21-0
350.00	23-10	23-11	23-11	24-0	24-1	24-1	24-2	24-3	24-4	24-4
375.00	27-5	27-5	27-6	27-7	27-8	27-9	27-9	27-10	27-11	28-0
400.00	31-2	31-3	31-4	31-5	31-6	31-7	31-8	31-9	31-9	31-10
425.00	35-3	35-4	35-5	35-6	35-7	35-8	35-9	35-10	35-11	36-0
450.00	39-7	39-8	39-9	39-10	39-11	40-0	40-2	40-3	40-4	40-5
475.00	44-1	44-3	44-4	44-5	44-7	44-8	44-9	44-10	45-0	45-1
500.00	48-11	49-1	49-2	49-4	49-5	49-7	49-8	49-9	49-11	50-0

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<div>SHEET</div> <div>214 OF 215</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH822.214
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING 3/0 RTS TRIPLEX TENSION 2000 LBS									

SCOPE: THIS STANDARD CONTAINS DESIGN AND STRINGING CHARTS FOR 336.4 RTS TRIPLEX CONDUCTOR. CLICK TENSION UNDER DESIRED LOADING CONDITION TO GO TO THE CORRESPONDING PAGE

G.O. 95 LIGHT LOADING CONDITION

1000 LB TENSION -----	823.2
1500 LB TENSION -----	823.10
2000 LB TENSION -----	823.18

G.O. 95 HEAVY LOADING CONDITION

1000 LB TENSION -----	823.26
1500 LB TENSION -----	823.32
2000 LB TENSION -----	823.40

SDG&E EXTRA HEAVY LOADING CONDITION

1000 LB TENSION -----	823.48
1500 LB TENSION -----	823.51
2000 LB TENSION -----	823.57

65 MPH LIGHT KNOWN LOCAL WIND CONDITION

1000 LB TENSION -----	823.65
1500 LB TENSION -----	823.73
2000 LB TENSION -----	823.81

65 MPH HEAVY KNOWN LOCAL WIND CONDITION

1000 LB TENSION -----	823.89
1500 LB TENSION -----	823.97
2000 LB TENSION -----	823.105

85 MPH LIGHT KNOWN LOCAL WIND CONDITION

1000 LB TENSION -----	823.113
1500 LB TENSION -----	823.119
2000 LB TENSION -----	823.127

85 MPH HEAVY KNOWN LOCAL WIND CONDITION

1000 LB TENSION -----	823.135
1500 LB TENSION -----	823.141
2000 LB TENSION -----	823.149

111 MPH LIGHT KNOWN LOCAL WIND CONDITION

1000 LB TENSION -----	823.157
1500 LB TENSION -----	823.162
2000 LB TENSION -----	823.170

111 MPH HEAVY KNOWN LOCAL WIND CONDITION

1000 LB TENSION -----	823.178
1500 LB TENSION -----	823.183
2000 LB TENSION -----	823.191

REFERENCE:

- a. REFER TO OVERHEAD CONSTRUCTION STANDARD 805: SAG AND TENSION TABLES GENERAL INSTRUCTIONS AND INFORMATION.

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		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		336.4 RTS TRIPLEX TABLE OF CONTENTS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.746	8.92	987	8.8	1000*
25	0	0	0	1.12	8.78	643	8.63	654
30	0	0	0	1.12	8.82	640	8.67	651
40	0	0	0	1.12	8.91	633	8.76	644
50	0	0	0	1.12	9	627	8.85	638
60	0	0	0	1.12	9.09	621	8.93	632
70	0	0	0	1.12	9.18	615	9.02	626
80	0	0	0	1.12	9.26	610	9.1	620
90	0	0	0	1.12	9.35	604	9.19	615
100	0	0	0	1.12	9.43	599	9.27	609
110	0	0	0	1.12	9.52	594	9.36	604
120	0	0	0	1.12	9.6	589	9.44	599
130	0	0	0	1.12	9.68	584	9.52	593
167	0	0	0	1.12	9.92	570	9.82	576
212	0	0	0	1.12	10.15	557	10.13	558

* Design Condition

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<div>SHEET 2 OF 198</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH823.2
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING 336.4 RTS TRIPLEX TENSION 1000 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 3 OF 198		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH823.3
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING 336.4 RTS TRIPLEX TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.746	57.6	998	57.47	1000*
25	0	0	0	1.12	57.45	641	57.3	643
30	0	0	0	1.12	57.5	641	57.34	643
40	0	0	0	1.12	57.59	640	57.43	642
50	0	0	0	1.12	57.68	639	57.52	641
60	0	0	0	1.12	57.78	638	57.61	640
70	0	0	0	1.12	57.87	637	57.7	639
80	0	0	0	1.12	57.96	636	57.79	638
90	0	0	0	1.12	58.05	636	57.88	637
100	0	0	0	1.12	58.14	635	57.97	636
110	0	0	0	1.12	58.23	634	58.06	636
120	0	0	0	1.12	58.32	633	58.15	635
130	0	0	0	1.12	58.41	632	58.23	634
167	0	0	0	1.12	58.72	629	58.56	631
212	0	0	0	1.12	58.98	627	58.96	627

* Design Condition

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.4

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-1	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6
100.00	2-0	2-1	2-2	2-3	2-4	2-5	2-5	2-6	2-7	2-8
125.00	3-1	3-3	3-4	3-6	3-7	3-9	3-10	3-11	4-1	4-2
150.00	4-6	4-8	4-10	5-0	5-2	5-4	5-6	5-8	5-10	6-0
175.00	6-1	6-4	6-7	6-10	7-1	7-4	7-6	7-9	8-0	8-2
200.00	8-0	8-3	8-7	8-11	9-3	9-7	9-10	10-2	10-5	10-9

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-2	1-3	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-7
100.00	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10
125.00	3-4	3-5	3-7	3-8	3-10	3-11	4-1	4-2	4-3	4-5
150.00	4-9	4-11	5-2	5-4	5-6	5-8	5-10	6-0	6-2	6-4
175.00	6-6	6-9	7-0	7-3	7-6	7-8	7-11	8-2	8-5	8-7
200.00	8-6	8-10	9-2	9-5	9-9	10-1	10-4	10-8	10-11	11-3

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SHEET 5 OF 198	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH823.5
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING 336.4 RTS TRIPLEX TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-2	2-2	2-2	2-2	2-3	2-3	2-3	2-4	2-4	2-4
125.00	3-4	3-5	3-5	3-5	3-6	3-6	3-7	3-7	3-7	3-8
150.00	4-10	4-10	4-11	5-0	5-0	5-1	5-1	5-2	5-3	5-3
175.00	6-7	6-8	6-8	6-9	6-10	6-11	7-0	7-0	7-1	7-2
200.00	8-7	8-8	8-9	8-10	8-11	9-0	9-1	9-2	9-3	9-4
225.00	10-10	11-0	11-1	11-2	11-4	11-5	11-6	11-8	11-9	11-10
250.00	13-5	13-7	13-8	13-10	14-0	14-1	14-3	14-5	14-6	14-8

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-2	2-2	2-3	2-3	2-3	2-3	2-4	2-4	2-4	2-4
125.00	3-5	3-5	3-6	3-6	3-7	3-7	3-7	3-8	3-8	3-9
150.00	4-11	4-11	5-0	5-1	5-1	5-2	5-2	5-3	5-4	5-4
175.00	6-8	6-9	6-10	6-11	6-11	7-0	7-1	7-2	7-3	7-3
200.00	8-9	8-10	8-11	9-0	9-1	9-2	9-3	9-4	9-5	9-6
225.00	11-1	11-2	11-3	11-5	11-6	11-7	11-9	11-10	11-11	12-1
250.00	13-8	13-10	13-11	14-1	14-3	14-4	14-6	14-8	14-9	14-11

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SHEET 6 OF 198	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH823.6
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING 336.4 RTS TRIPLEX TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-11	4-11	5-0	5-0	5-0	5-0	5-1	5-1	5-1	5-1
175.00	6-8	6-9	6-9	6-10	6-10	6-10	6-11	6-11	6-11	7-0
200.00	8-9	8-10	8-10	8-11	8-11	8-11	9-0	9-0	9-1	9-1
225.00	11-1	11-2	11-2	11-3	11-4	11-4	11-5	11-5	11-6	11-6
250.00	13-9	13-9	13-10	13-11	13-11	14-0	14-1	14-2	14-2	14-3
275.00	16-7	16-8	16-9	16-10	16-11	17-0	17-1	17-1	17-2	17-3
300.00	19-9	19-10	19-11	20-1	20-2	20-3	20-4	20-5	20-6	20-7
325.00	23-3	23-4	23-5	23-7	23-8	23-9	23-10	24-0	24-1	24-2
350.00	27-0	27-1	27-3	27-4	27-6	27-7	27-8	27-10	27-11	28-1
375.00	31-0	31-2	31-3	31-5	31-7	31-8	31-10	32-0	32-1	32-3

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-0	5-0	5-0	5-0	5-1	5-1	5-1	5-1	5-2	5-2
175.00	6-9	6-9	6-10	6-10	6-11	6-11	6-11	7-0	7-0	7-0
200.00	8-10	8-10	8-11	8-11	9-0	9-0	9-1	9-1	9-2	9-2
225.00	11-2	11-3	11-3	11-4	11-5	11-5	11-6	11-6	11-7	11-8
250.00	13-10	13-11	13-11	14-0	14-1	14-2	14-2	14-3	14-4	14-5
275.00	16-9	16-10	16-11	17-0	17-0	17-1	17-2	17-3	17-4	17-5
300.00	19-11	20-0	20-1	20-2	20-4	20-5	20-6	20-7	20-8	20-9
325.00	23-5	23-6	23-8	23-9	23-10	23-11	24-1	24-2	24-3	24-4
350.00	27-2	27-4	27-5	27-7	27-8	27-10	27-11	28-1	28-2	28-4
375.00	31-3	31-5	31-6	31-8	31-10	32-0	32-1	32-3	32-5	32-6

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SHEET 7 OF 198	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH823.7
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING 336.4 RTS TRIPLEX TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-11	8-11	8-11	8-11	9-0	9-0	9-0	9-1	9-1	9-1
225.00	11-3	11-3	11-4	11-4	11-4	11-5	11-5	11-5	11-6	11-6
250.00	13-11	13-11	14-0	14-0	14-1	14-1	14-1	14-2	14-2	14-3
275.00	16-10	16-11	16-11	17-0	17-0	17-1	17-1	17-2	17-2	17-3
300.00	20-1	20-1	20-2	20-3	20-3	20-4	20-4	20-5	20-6	20-6
325.00	23-7	23-8	23-8	23-9	23-10	23-10	23-11	24-0	24-1	24-1
350.00	27-5	27-5	27-6	27-7	27-8	27-9	27-9	27-10	27-11	28-0
375.00	31-6	31-7	31-7	31-8	31-9	31-10	31-11	32-0	32-1	32-2
400.00	35-10	35-11	36-0	36-1	36-2	36-4	36-5	36-6	36-7	36-8
425.00	40-6	40-7	40-9	40-10	40-11	41-0	41-2	41-3	41-4	41-5
450.00	45-6	45-7	45-9	45-10	45-11	46-1	46-2	46-4	46-5	46-6
475.00	50-9	50-11	51-0	51-2	51-3	51-5	51-6	51-8	51-9	51-11
500.00	56-4	56-6	56-8	56-9	56-11	57-1	57-2	57-4	57-6	57-7

Stringing Sag Table Using Final Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-11	8-11	9-0	9-0	9-0	9-0	9-1	9-1	9-1	9-2
225.00	11-4	11-4	11-4	11-5	11-5	11-5	11-6	11-6	11-6	11-7
250.00	14-0	14-0	14-1	14-1	14-1	14-2	14-2	14-3	14-3	14-3
275.00	16-11	17-0	17-0	17-1	17-1	17-2	17-2	17-3	17-3	17-4
300.00	20-2	20-3	20-3	20-4	20-4	20-5	20-6	20-6	20-7	20-7
325.00	23-8	23-9	23-10	23-10	23-11	24-0	24-0	24-1	24-2	24-3
350.00	27-6	27-7	27-8	27-8	27-9	27-10	27-11	28-0	28-1	28-1
375.00	31-7	31-8	31-9	31-10	31-11	32-0	32-1	32-2	32-3	32-4
400.00	36-0	36-1	36-2	36-3	36-4	36-6	36-7	36-8	36-9	36-10
425.00	40-8	40-10	40-11	41-0	41-1	41-3	41-4	41-5	41-6	41-8
450.00	45-8	45-10	45-11	46-1	46-2	46-3	46-5	46-6	46-8	46-9
475.00	51-0	51-1	51-3	51-5	51-6	51-8	51-9	51-11	52-0	52-2
500.00	56-7	56-9	56-11	57-0	57-2	57-4	57-6	57-7	57-9	57-11

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SHEET 8 OF 198	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH823.8
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN GO95 LIGHT LOADING 336.4 RTS TRIPLEX TENSION 1000 LBS					

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.746	6.03	1453	5.84	1500*
25	0	0	0	1.12	5.74	978	5.46	1028
30	0	0	0	1.12	5.81	967	5.53	1016
40	0	0	0	1.12	5.93	947	5.65	994
50	0	0	0	1.12	6.06	928	5.77	973
60	0	0	0	1.12	6.18	909	5.89	954
70	0	0	0	1.12	6.3	892	6.01	935
80	0	0	0	1.12	6.42	876	6.13	917
90	0	0	0	1.12	6.54	860	6.24	900
100	0	0	0	1.12	6.65	845	6.36	884
110	0	0	0	1.12	6.77	831	6.47	869
120	0	0	0	1.12	6.88	818	6.59	854
130	0	0	0	1.12	6.99	805	6.7	840
167	0	0	0	1.12	7.39	762	7.1	793
212	0	0	0	1.12	7.68	733	7.56	745

* Design Condition

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B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 10 OF 198		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH823.10
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 100' & 200' RULING SPAN GO95 LIGHT LOADING 336.4 RTS TRIPLEX TENSION 1500 LBS										

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.746	13.42	1476	13.2	1500*
25	0	0	0	1.12	13.11	969	12.8	991
30	0	0	0	1.12	13.18	964	12.87	986
40	0	0	0	1.12	13.31	954	13	977
50	0	0	0	1.12	13.44	945	13.13	967
60	0	0	0	1.12	13.57	936	13.25	958
70	0	0	0	1.12	13.7	927	13.38	949
80	0	0	0	1.12	13.83	919	13.51	940
90	0	0	0	1.12	13.96	911	13.63	932
100	0	0	0	1.12	14.08	903	13.76	924
110	0	0	0	1.12	14.21	895	13.88	915
120	0	0	0	1.12	14.33	887	14	908
130	0	0	0	1.12	14.46	880	14.13	900
167	0	0	0	1.12	14.91	854	14.57	873
212	0	0	0	1.12	15.33	831	15.1	843

* Design Condition

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.746	23.84	1486	23.61	1500*
25	0	0	0	1.12	23.52	965	23.21	978
30	0	0	0	1.12	23.59	963	23.27	976
40	0	0	0	1.12	23.73	957	23.4	970
50	0	0	0	1.12	23.86	952	23.54	965
60	0	0	0	1.12	24	947	23.67	960
70	0	0	0	1.12	24.13	942	23.8	955
80	0	0	0	1.12	24.26	937	23.93	950
90	0	0	0	1.12	24.39	932	24.06	945
100	0	0	0	1.12	24.53	927	24.19	940
110	0	0	0	1.12	24.66	922	24.31	935
120	0	0	0	1.12	24.79	918	24.44	930
130	0	0	0	1.12	24.92	913	24.57	925
167	0	0	0	1.12	25.39	896	25.04	909
212	0	0	0	1.12	25.88	880	25.6	889

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SHEET 11 OF 198		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH823.11
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING 336.4 RTS TRIPLEX TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
25	0	8	0	1.746	37.42	1491	37.19	1500*
25	0	0	0	1.12	37.1	964	36.78	972
30	0	0	0	1.12	37.17	962	36.85	970
40	0	0	0	1.12	37.31	959	36.98	967
50	0	0	0	1.12	37.45	956	37.11	964
60	0	0	0	1.12	37.58	952	37.25	961
70	0	0	0	1.12	37.72	949	37.38	957
80	0	0	0	1.12	37.85	946	37.51	954
90	0	0	0	1.12	37.99	943	37.64	951
100	0	0	0	1.12	38.12	940	37.77	948
110	0	0	0	1.12	38.26	936	37.9	945
120	0	0	0	1.12	38.39	933	38.03	942
130	0	0	0	1.12	38.52	930	38.16	938
167	0	0	0	1.12	39.01	919	38.64	927
212	0	0	0	1.12	39.54	907	39.22	914

* Design Condition

* Design Condition

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B						E					
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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.12

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-4	1-5	1-5	1-5	1-6	1-6	1-6	1-7	1-7	1-7
125.00	2-1	2-2	2-2	2-3	2-4	2-4	2-5	2-5	2-6	2-6
150.00	3-0	3-1	3-2	3-3	3-4	3-5	3-5	3-6	3-7	3-8
175.00	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11
200.00	5-5	5-6	5-8	5-9	5-11	6-0	6-2	6-3	6-4	6-6
225.00	6-10	7-0	7-2	7-4	7-6	7-7	7-9	7-11	8-1	8-2
250.00	8-5	8-8	8-10	9-0	9-3	9-5	9-7	9-9	9-11	10-1

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-5	1-5	1-6	1-6	1-7	1-7	1-7	1-8	1-8	1-8
125.00	2-3	2-3	2-4	2-4	2-5	2-6	2-6	2-7	2-7	2-8
150.00	3-2	3-3	3-4	3-5	3-6	3-7	3-7	3-8	3-9	3-10
175.00	4-4	4-5	4-7	4-8	4-9	4-10	4-11	5-0	5-1	5-2
200.00	5-8	5-10	5-11	6-1	6-2	6-4	6-5	6-6	6-8	6-9
225.00	7-2	7-4	7-6	7-8	7-10	8-0	8-2	8-3	8-5	8-7
250.00	8-11	9-1	9-3	9-6	9-8	9-10	10-0	10-3	10-5	10-7

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.14

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* Design Condition

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<div style="text-align: center;"> <p>SHEET</p> <p>19 OF 198</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH823.19</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 300' & 400' RULING SPAN GO95 LIGHT LOADING</p> <p>336.4 RTS TRIPLEX TENSION 2000 LBS</p> </div>						

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
25	0	8	0	1.746	27.98	1975	27.62	2000*
25	0	0	0	1.12	27.43	1292	26.88	1317
30	0	0	0	1.12	27.52	1287	26.97	1313
40	0	0	0	1.12	27.69	1279	27.14	1305
50	0	0	0	1.12	27.87	1271	27.32	1297
60	0	0	0	1.12	28.05	1264	27.49	1289
70	0	0	0	1.12	28.23	1256	27.66	1281
80	0	0	0	1.12	28.4	1248	27.83	1273
90	0	0	0	1.12	28.58	1241	28	1266
100	0	0	0	1.12	28.75	1234	28.17	1258
110	0	0	0	1.12	28.92	1226	28.34	1251
120	0	0	0	1.12	29.09	1219	28.5	1244
130	0	0	0	1.12	29.26	1212	28.67	1237
167	0	0	0	1.12	29.89	1188	29.29	1212
212	0	0	0	1.12	30.63	1160	30.02	1183

* Design Condition

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D							
SHEET 20 OF 198		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH823.20
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 500' RULING SPAN GO95 LIGHT LOADING 336.4 RTS TRIPLEX TENSION 2000 LBS											

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10
100.00	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-6
125.00	1-2	1-3	1-5	1-6	1-7	1-9	1-10	2-0	2-2	2-3
150.00	1-9	1-10	2-0	2-2	2-4	2-6	2-8	2-11	3-1	3-4
175.00	2-4	2-6	2-9	2-11	3-2	3-5	3-8	3-11	4-2	4-6
200.00	3-1	3-4	3-7	3-10	4-1	4-5	4-9	5-2	5-6	5-10

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0
100.00	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-8	1-9
125.00	1-5	1-6	1-8	1-10	2-0	2-2	2-4	2-5	2-7	2-9
150.00	2-0	2-3	2-5	2-8	2-10	3-1	3-4	3-6	3-9	4-0
175.00	2-9	3-0	3-4	3-7	3-11	4-2	4-6	4-10	5-1	5-5
200.00	3-7	3-11	4-4	4-8	5-1	5-6	5-11	6-3	6-8	7-1

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 21 OF 198		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH823.21
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 100' RULING SPAN GO95 LIGHT LOADING 336.4 RTS TRIPLEX TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	0-11	1-0	1-0	1-0	1-1	1-1	1-2	1-2	1-2	1-3
125.00	1-5	1-6	1-7	1-7	1-8	1-9	1-9	1-10	1-11	1-11
150.00	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-8	2-9
175.00	2-10	2-11	3-1	3-2	3-3	3-4	3-6	3-7	3-8	3-9
200.00	3-9	3-10	4-0	4-2	4-3	4-5	4-7	4-8	4-10	4-11
225.00	4-8	4-10	5-1	5-3	5-5	5-7	5-9	5-11	6-1	6-3
250.00	5-10	6-0	6-3	6-5	6-8	6-11	7-1	7-4	7-6	7-9

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-3	1-4	1-4
125.00	1-7	1-8	1-9	1-9	1-10	1-11	1-11	2-0	2-1	2-1
150.00	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-11	3-0
175.00	3-2	3-3	3-4	3-6	3-7	3-8	3-10	3-11	4-0	4-2
200.00	4-1	4-3	4-5	4-7	4-8	4-10	5-0	5-1	5-3	5-5
225.00	5-2	5-5	5-7	5-9	5-11	6-2	6-4	6-6	6-8	6-10
250.00	6-5	6-8	6-11	7-1	7-4	7-7	7-9	8-0	8-3	8-5

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 22 OF 198	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH823.22
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN GO95 LIGHT LOADING 336.4 RTS TRIPLEX TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-3	2-4	2-4	2-5	2-5	2-6	2-6	2-7	2-7	2-8
175.00	3-1	3-2	3-2	3-3	3-4	3-4	3-5	3-6	3-6	3-7
200.00	4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-6	4-7	4-8
225.00	5-1	5-2	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-11
250.00	6-4	6-5	6-6	6-8	6-9	6-10	7-0	7-1	7-2	7-4
275.00	7-8	7-9	7-11	8-1	8-2	8-4	8-5	8-7	8-9	8-10
300.00	9-1	9-3	9-5	9-7	9-9	9-11	10-1	10-3	10-4	10-6
325.00	10-8	10-10	11-1	11-3	11-5	11-7	11-10	12-0	12-2	12-4
350.00	12-5	12-7	12-10	13-1	13-3	13-6	13-8	13-11	14-1	14-4
375.00	14-3	14-6	14-9	15-0	15-3	15-6	15-9	16-0	16-3	16-5

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	2-5	2-5	2-6	2-6	2-7	2-7	2-8	2-8	2-9	2-9
175.00	3-3	3-4	3-4	3-5	3-6	3-6	3-7	3-8	3-8	3-9
200.00	4-3	4-4	4-5	4-6	4-7	4-7	4-8	4-9	4-10	4-11
225.00	5-5	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-1	6-2
250.00	6-8	6-9	6-11	7-0	7-1	7-3	7-4	7-5	7-7	7-8
275.00	8-1	8-2	8-4	8-6	8-7	8-9	8-11	9-0	9-2	9-3
300.00	9-7	9-9	9-11	10-1	10-3	10-5	10-7	10-9	10-11	11-1
325.00	11-3	11-5	11-8	11-10	12-0	12-3	12-5	12-7	12-9	13-0
350.00	13-1	13-3	13-6	13-9	13-11	14-2	14-5	14-7	14-10	15-0
375.00	15-0	15-3	15-6	15-9	16-0	16-3	16-6	16-9	17-0	17-3

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 23 OF 198		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH823.23
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 300' RULING SPAN GO95 LIGHT LOADING 336.4 RTS TRIPLEX TENSION 2000 LBS										

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 26 OF 198	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH823.26
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING 336.4 RTS TRIPLEX TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	9-0	9-0	9-0	9-1	9-1	9-1	9-1	9-1	9-1	9-2
175.00	12-4	12-4	12-4	12-4	12-4	12-5	12-5	12-5	12-5	12-5
200.00	16-1	16-1	16-2	16-2	16-2	16-2	16-3	16-3	16-3	16-3
225.00	20-5	20-5	20-6	20-6	20-6	20-7	20-7	20-7	20-8	20-8
250.00	25-3	25-4	25-4	25-4	25-5	25-5	25-6	25-6	25-6	25-7
275.00	30-8	30-8	30-9	30-9	30-10	30-10	30-11	30-11	31-0	31-0
300.00	36-7	36-8	36-8	36-9	36-9	36-10	36-11	36-11	37-0	37-1
325.00	43-1	43-2	43-2	43-3	43-4	43-5	43-5	43-6	43-7	43-7
350.00	50-2	50-3	50-3	50-4	50-5	50-6	50-7	50-8	50-9	50-9
375.00	57-9	57-10	57-11	58-0	58-1	58-2	58-3	58-4	58-5	58-6

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	9-0	9-1	9-1	9-1	9-1	9-1	9-1	9-1	9-2	9-2
175.00	12-4	12-4	12-4	12-4	12-5	12-5	12-5	12-5	12-5	12-6
200.00	16-1	16-2	16-2	16-2	16-2	16-3	16-3	16-3	16-4	16-4
225.00	20-5	20-6	20-6	20-6	20-7	20-7	20-7	20-8	20-8	20-8
250.00	25-4	25-4	25-4	25-5	25-5	25-6	25-6	25-7	25-7	25-7
275.00	30-8	30-9	30-9	30-10	30-10	30-11	31-0	31-0	31-1	31-1
300.00	36-8	36-8	36-9	36-10	36-10	36-11	37-0	37-0	37-1	37-1
325.00	43-2	43-3	43-3	43-4	43-5	43-6	43-6	43-7	43-8	43-8
350.00	50-3	50-4	50-4	50-5	50-6	50-7	50-8	50-9	50-10	50-11
375.00	57-11	58-0	58-1	58-2	58-3	58-4	58-5	58-6	58-7	58-8

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SHEET 30 OF 198		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH823.30	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING 336.4 RTS TRIPLEX TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	16-9	16-9	16-9	16-9	16-9	16-9	16-10	16-10	16-10	16-10
225.00	21-3	21-3	21-3	21-3	21-3	21-4	21-4	21-4	21-4	21-4
250.00	26-3	26-3	26-4	26-4	26-4	26-4	26-5	26-5	26-5	26-5
275.00	31-11	31-11	31-11	31-11	32-0	32-0	32-0	32-0	32-1	32-1
300.00	38-1	38-1	38-1	38-2	38-2	38-2	38-3	38-3	38-3	38-4
325.00	44-10	44-10	44-11	44-11	45-0	45-0	45-0	45-1	45-1	45-1
350.00	52-2	52-3	52-3	52-4	52-4	52-5	52-5	52-6	52-6	52-6
375.00	60-2	60-3	60-3	60-4	60-4	60-5	60-5	60-6	60-6	60-7
400.00	68-9	68-10	68-10	68-11	69-0	69-0	69-1	69-1	69-2	69-3
425.00	78-0	78-1	78-1	78-2	78-3	78-3	78-4	78-5	78-5	78-6
450.00	87-10	87-11	88-0	88-1	88-2	88-2	88-3	88-4	88-5	88-6
475.00	98-5	98-6	98-7	98-8	98-9	98-9	98-10	98-11	99-0	99-1
500.00	109-8	109-9	109-10	109-11	110-0	110-1	110-2	110-3	110-4	110-5

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	16-9	16-9	16-9	16-9	16-9	16-10	16-10	16-10	16-10	16-10
225.00	21-3	21-3	21-3	21-3	21-4	21-4	21-4	21-4	21-4	21-5
250.00	26-3	26-4	26-4	26-4	26-4	26-5	26-5	26-5	26-5	26-6
275.00	31-11	31-11	31-11	32-0	32-0	32-0	32-1	32-1	32-1	32-1
300.00	38-1	38-2	38-2	38-2	38-3	38-3	38-3	38-4	38-4	38-4
325.00	44-10	44-11	44-11	45-0	45-0	45-0	45-1	45-1	45-2	45-2
350.00	52-3	52-3	52-4	52-4	52-5	52-5	52-6	52-6	52-7	52-7
375.00	60-3	60-3	60-4	60-4	60-5	60-5	60-6	60-6	60-7	60-7
400.00	68-10	68-10	68-11	69-0	69-0	69-1	69-2	69-2	69-3	69-3
425.00	78-1	78-1	78-2	78-3	78-4	78-4	78-5	78-6	78-6	78-7
450.00	87-11	88-0	88-1	88-2	88-3	88-3	88-4	88-5	88-6	88-7
475.00	98-6	98-7	98-8	98-9	98-10	98-11	99-0	99-0	99-1	99-2
500.00	109-9	109-10	109-11	110-0	110-1	110-2	110-3	110-4	110-5	110-6

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☐ Information Removed

SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.31

Span = 100 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	3.074	2.59	1487	2.57	1500*
0	0	0	0	1.12	2.27	617	2.17	648
30	0	0	0	1.12	2.51	560	2.4	585
40	0	0	0	1.12	2.58	544	2.47	568
50	0	0	0	1.12	2.65	529	2.54	552
60	0	0	0	1.12	2.72	515	2.61	537
70	0	0	0	1.12	2.79	503	2.68	523
80	0	0	0	1.12	2.86	491	2.75	510
90	0	0	0	1.12	2.93	480	2.82	498
100	0	0	0	1.12	2.99	469	2.88	487
110	0	0	0	1.12	3.06	459	2.95	476
120	0	0	0	1.12	3.12	450	3.01	466
130	0	0	0	1.12	3.16	444	3.07	457
167	0	0	0	1.12	3.3	426	3.29	427
212	0	0	0	1.12	3.47	406	3.46	407

* Design Condition

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	3.074	10.39	1496	10.36	1500*
0	0	0	0	1.12	10.06	562	9.95	569
30	0	0	0	1.12	10.3	550	10.18	556
40	0	0	0	1.12	10.37	546	10.25	552
50	0	0	0	1.12	10.45	542	10.33	548
60	0	0	0	1.12	10.53	538	10.41	544
70	0	0	0	1.12	10.6	534	10.48	540
80	0	0	0	1.12	10.68	530	10.56	536
90	0	0	0	1.12	10.76	527	10.63	533
100	0	0	0	1.12	10.83	523	10.7	529
110	0	0	0	1.12	10.9	520	10.78	526
120	0	0	0	1.12	10.98	516	10.85	522
130	0	0	0	1.12	11.05	513	10.92	519
167	0	0	0	1.12	11.24	505	11.19	507
212	0	0	0	1.12	11.45	496	11.43	496

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 32 OF 198		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH823.32
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING 336.4 RTS TRIPLEX TENSION 1500 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>33 OF 198</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH823.33
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING 336.4 RTS TRIPLEX TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	3.074	68.98	1499	68.95	1500*
0	0	0	0	1.12	68.65	548	68.54	549
30	0	0	0	1.12	68.89	547	68.77	548
40	0	0	0	1.12	68.97	546	68.84	547
50	0	0	0	1.12	69.04	546	68.92	547
60	0	0	0	1.12	69.12	545	69	546
70	0	0	0	1.12	69.2	545	69.07	546
80	0	0	0	1.12	69.28	544	69.15	545
90	0	0	0	1.12	69.36	544	69.23	545
100	0	0	0	1.12	69.43	543	69.3	544
110	0	0	0	1.12	69.51	543	69.38	544
120	0	0	0	1.12	69.59	542	69.45	543
130	0	0	0	1.12	69.67	542	69.53	543
167	0	0	0	1.12	69.89	540	69.81	541
212	0	0	0	1.12	70.12	539	70.1	539
* Design Condition								

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.34

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-6	2-6	2-7	2-7	2-7	2-7	2-8	2-8	2-8	2-8
125.00	3-11	4-0	4-0	4-0	4-1	4-1	4-1	4-2	4-2	4-2
150.00	5-8	5-9	5-9	5-10	5-10	5-11	5-11	6-0	6-0	6-1
175.00	7-9	7-9	7-10	7-11	8-0	8-0	8-1	8-2	8-2	8-3
200.00	10-1	10-2	10-3	10-4	10-5	10-6	10-7	10-8	10-8	10-9
225.00	12-10	12-11	13-0	13-1	13-2	13-3	13-4	13-6	13-7	13-8
250.00	15-10	15-11	16-1	16-2	16-3	16-5	16-6	16-8	16-9	16-10

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-7	2-7	2-7	2-7	2-7	2-8	2-8	2-8	2-8	2-9
125.00	4-0	4-0	4-1	4-1	4-1	4-2	4-2	4-2	4-3	4-3
150.00	5-9	5-9	5-10	5-10	5-11	5-11	6-0	6-0	6-1	6-1
175.00	7-10	7-11	7-11	8-0	8-1	8-1	8-2	8-3	8-3	8-4
200.00	10-3	10-4	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-11
225.00	12-11	13-1	13-2	13-3	13-4	13-5	13-6	13-8	13-9	13-10
250.00	16-0	16-1	16-3	16-4	16-6	16-7	16-9	16-10	17-0	17-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>36 OF 198</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH823.36</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING</p> <p>336.4 RTS TRIPLEX TENSION 1500 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-10	5-10	5-10	5-10	5-11	5-11	5-11	5-11	5-11	6-0
175.00	7-11	7-11	8-0	8-0	8-0	8-0	8-1	8-1	8-1	8-2
200.00	10-4	10-5	10-5	10-5	10-6	10-6	10-7	10-7	10-7	10-8
225.00	13-1	13-2	13-2	13-3	13-3	13-4	13-4	13-5	13-5	13-6
250.00	16-2	16-3	16-4	16-4	16-5	16-5	16-6	16-7	16-7	16-8
275.00	19-7	19-8	19-9	19-10	19-10	19-11	20-0	20-1	20-2	20-2
300.00	23-4	23-5	23-6	23-7	23-8	23-9	23-10	23-11	24-0	24-1
325.00	27-6	27-7	27-8	27-9	27-10	27-11	28-0	28-1	28-2	28-3
350.00	31-11	32-0	32-1	32-3	32-4	32-5	32-6	32-8	32-9	32-10
375.00	36-8	36-10	36-11	37-1	37-2	37-3	37-5	37-6	37-8	37-9

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	5-10	5-10	5-11	5-11	5-11	5-11	5-11	6-0	6-0	6-0
175.00	7-11	8-0	8-0	8-0	8-1	8-1	8-1	8-2	8-2	8-2
200.00	10-5	10-5	10-6	10-6	10-6	10-7	10-7	10-8	10-8	10-8
225.00	13-2	13-3	13-3	13-4	13-4	13-5	13-5	13-6	13-6	13-7
250.00	16-3	16-4	16-5	16-5	16-6	16-7	16-7	16-8	16-8	16-9
275.00	19-9	19-9	19-10	19-11	20-0	20-0	20-1	20-2	20-3	20-4
300.00	23-6	23-7	23-8	23-9	23-10	23-11	24-0	24-0	24-1	24-2
325.00	27-7	27-8	27-10	27-11	28-0	28-1	28-2	28-3	28-4	28-5
350.00	32-1	32-2	32-3	32-5	32-6	32-7	32-9	32-10	32-11	33-0
375.00	36-10	37-0	37-1	37-3	37-4	37-6	37-7	37-9	37-10	38-0

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SHEET 37 OF 198		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH823.37
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING 336.4 RTS TRIPLEX TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span: 400.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	10-6	10-7	10-7	10-7	10-7	10-8	10-8	10-8	10-8	10-8
225.00	13-4	13-5	13-5	13-5	13-5	13-6	13-6	13-6	13-6	13-7
250.00	16-6	16-6	16-7	16-7	16-7	16-8	16-8	16-8	16-9	16-9
275.00	20-0	20-0	20-1	20-1	20-2	20-2	20-2	20-3	20-3	20-4
300.00	23-10	23-10	23-11	23-11	24-0	24-0	24-1	24-1	24-2	24-2
325.00	28-0	28-1	28-1	28-2	28-2	28-3	28-4	28-4	28-5	28-5
350.00	32-6	32-7	32-8	32-8	32-9	32-10	32-10	32-11	33-0	33-1
375.00	37-5	37-6	37-6	37-7	37-8	37-9	37-10	37-10	37-11	38-0
400.00	42-7	42-8	42-9	42-10	42-11	43-0	43-1	43-2	43-3	43-4
425.00	48-3	48-4	48-5	48-6	48-7	48-8	48-9	48-10	48-11	49-0
450.00	54-2	54-3	54-4	54-5	54-7	54-8	54-9	54-10	54-11	55-0
475.00	60-6	60-7	60-8	60-10	60-11	61-0	61-2	61-3	61-4	61-5
500.00	67-2	67-3	67-5	67-6	67-8	67-9	67-11	68-0	68-2	68-3

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	10-7	10-7	10-7	10-8	10-8	10-8	10-8	10-8	10-9	10-9
225.00	13-5	13-5	13-5	13-6	13-6	13-6	13-6	13-7	13-7	13-7
250.00	16-7	16-7	16-7	16-8	16-8	16-8	16-9	16-9	16-9	16-10
275.00	20-1	20-1	20-1	20-2	20-2	20-3	20-3	20-4	20-4	20-4
300.00	23-11	23-11	24-0	24-0	24-1	24-1	24-2	24-2	24-3	24-3
325.00	28-1	28-2	28-2	28-3	28-3	28-4	28-5	28-5	28-6	28-6
350.00	32-7	32-8	32-9	32-9	32-10	32-11	33-0	33-0	33-1	33-2
375.00	37-6	37-7	37-8	37-8	37-9	37-10	37-11	38-0	38-1	38-1
400.00	42-9	42-10	42-11	43-0	43-1	43-2	43-3	43-3	43-4	43-5
425.00	48-4	48-5	48-6	48-7	48-8	48-9	48-11	49-0	49-1	49-2
450.00	54-4	54-5	54-6	54-7	54-9	54-10	54-11	55-0	55-1	55-3
475.00	60-8	60-9	60-10	61-0	61-1	61-2	61-4	61-5	61-6	61-8
500.00	67-4	67-6	67-7	67-9	67-10	68-0	68-1	68-3	68-4	68-6

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
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B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 38 OF 198		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH823.38
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 400' RULING SPAN GO95 HEAVY LOADING 336.4 RTS TRIPLEX TENSION 1500 LBS										

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	3.074	7.75	1996	7.73	2000*
0	0	0	0	1.12	7.17	785	6.98	806
30	0	0	0	1.12	7.49	752	7.29	772
40	0	0	0	1.12	7.59	742	7.39	761
50	0	0	0	1.12	7.69	732	7.49	751
60	0	0	0	1.12	7.79	723	7.59	742
70	0	0	0	1.12	7.89	714	7.69	732
80	0	0	0	1.12	7.99	705	7.79	723
90	0	0	0	1.12	8.09	697	7.89	714
100	0	0	0	1.12	8.19	689	7.98	706
110	0	0	0	1.12	8.28	681	8.08	698
120	0	0	0	1.12	8.38	673	8.17	690
130	0	0	0	1.12	8.47	666	8.27	682
167	0	0	0	1.12	8.77	643	8.6	656
212	0	0	0	1.12	9.02	626	9	627
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>40 OF 198</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH823.40
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN GO95 HEAVY LOADING 336.4 RTS TRIPLEX TENSION 2000 LBS									

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	3.074	17.55	1998	17.53	2000*
0	0	0	0	1.12	16.96	752	16.77	761
30	0	0	0	1.12	17.28	739	17.08	747
40	0	0	0	1.12	17.39	734	17.19	743
50	0	0	0	1.12	17.49	730	17.29	739
60	0	0	0	1.12	17.59	726	17.39	734
70	0	0	0	1.12	17.7	722	17.49	730
80	0	0	0	1.12	17.8	718	17.59	726
90	0	0	0	1.12	17.9	714	17.69	722
100	0	0	0	1.12	18	710	17.79	718
110	0	0	0	1.12	18.1	706	17.89	714
120	0	0	0	1.12	18.2	702	17.99	711
130	0	0	0	1.12	18.3	699	18.09	707
167	0	0	0	1.12	18.66	686	18.45	693
212	0	0	0	1.12	18.94	676	18.88	678

* Design Condition

Span = 400 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
0	0.50G	6	0	3.074	31.53	1999	31.51	2000*
0	0	0	0	1.12	30.94	741	30.75	746
30	0	0	0	1.12	31.26	734	31.06	739
40	0	0	0	1.12	31.36	732	31.16	736
50	0	0	0	1.12	31.47	729	31.26	734
60	0	0	0	1.12	31.57	727	31.37	732
70	0	0	0	1.12	31.68	725	31.47	730
80	0	0	0	1.12	31.78	723	31.57	727
90	0	0	0	1.12	31.88	720	31.67	725
100	0	0	0	1.12	31.99	718	31.77	723
110	0	0	0	1.12	32.09	716	31.87	721
120	0	0	0	1.12	32.19	714	31.97	719
130	0	0	0	1.12	32.29	712	32.07	716
167	0	0	0	1.12	32.67	704	32.44	709
212	0	0	0	1.12	32.97	698	32.89	700

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 41 OF 198		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH823.41
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN GO95 HEAVY LOADING 336.4 RTS TRIPLEX TENSION 2000 LBS									


Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	0.50G	6	0	3.074	49.98	1999	49.96	2000*
0	0	0	0	1.12	49.4	736	49.2	739
30	0	0	0	1.12	49.71	732	49.51	735
40	0	0	0	1.12	49.82	731	49.61	733
50	0	0	0	1.12	49.92	729	49.72	732
60	0	0	0	1.12	50.03	728	49.82	731
70	0	0	0	1.12	50.13	726	49.92	729
80	0	0	0	1.12	50.23	725	50.02	728
90	0	0	0	1.12	50.34	724	50.12	726
100	0	0	0	1.12	50.44	722	50.22	725
110	0	0	0	1.12	50.54	721	50.33	724
120	0	0	0	1.12	50.65	720	50.43	722
130	0	0	0	1.12	50.75	718	50.53	721
167	0	0	0	1.12	51.13	713	50.9	716
212	0	0	0	1.12	51.44	709	51.35	710

* Design Condition

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>42 OF 198</p> </div>	Indicates Latest Revision		Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH823.42</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN GO95 HEAVY LOADING</p> <p>336.4 RTS TRIPLEX TENSION 2000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-10	1-10	1-10	1-10	1-11	1-11	1-11	2-0	2-0	2-0
125.00	2-10	2-10	2-11	2-11	3-0	3-0	3-0	3-1	3-1	3-2
150.00	4-0	4-1	4-2	4-3	4-3	4-4	4-5	4-5	4-6	4-6
175.00	5-6	5-7	5-8	5-9	5-10	5-11	6-0	6-0	6-1	6-2
200.00	7-2	7-4	7-5	7-6	7-7	7-8	7-9	7-11	8-0	8-1
225.00	9-1	9-3	9-4	9-6	9-7	9-9	9-10	10-0	10-1	10-3
250.00	11-3	11-5	11-7	11-9	11-11	12-0	12-2	12-4	12-6	12-8

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-10	1-10	1-11	1-11	1-11	2-0	2-0	2-0	2-1	2-1
125.00	2-11	2-11	3-0	3-0	3-0	3-1	3-1	3-2	3-2	3-3
150.00	4-2	4-2	4-3	4-4	4-5	4-5	4-6	4-7	4-7	4-8
175.00	5-8	5-9	5-10	5-11	6-0	6-0	6-1	6-2	6-3	6-4
200.00	7-5	7-6	7-7	7-8	7-10	7-11	8-0	8-1	8-2	8-3
225.00	9-4	9-6	9-7	9-9	9-10	10-0	10-1	10-3	10-4	10-6
250.00	11-7	11-9	11-10	12-0	12-2	12-4	12-6	12-8	12-10	12-11

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SHEET 44 OF 198	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH823.44
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN GO95 HEAVY LOADING 336.4 RTS TRIPLEX TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-3	4-3	4-3	4-4	4-4	4-4	4-5	4-5	4-5	4-5
175.00	5-9	5-10	5-10	5-10	5-11	5-11	6-0	6-0	6-0	6-1
200.00	7-6	7-7	7-7	7-8	7-9	7-9	7-10	7-10	7-11	7-11
225.00	9-6	9-7	9-8	9-8	9-9	9-10	9-10	9-11	10-0	10-0
250.00	11-9	11-10	11-11	12-0	12-1	12-2	12-2	12-3	12-4	12-5
275.00	14-3	14-4	14-5	14-6	14-7	14-8	14-9	14-10	14-11	15-0
300.00	17-0	17-1	17-2	17-3	17-5	17-6	17-7	17-8	17-9	17-11
325.00	19-11	20-1	20-2	20-4	20-5	20-6	20-8	20-9	20-11	21-0
350.00	23-2	23-3	23-5	23-7	23-8	23-10	24-0	24-1	24-3	24-5
375.00	26-7	26-9	26-11	27-1	27-3	27-5	27-7	27-9	27-10	28-0

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-3	4-4	4-4	4-4	4-5	4-5	4-5	4-6	4-6	4-6
175.00	5-10	5-10	5-11	5-11	6-0	6-0	6-0	6-1	6-1	6-2
200.00	7-7	7-8	7-8	7-9	7-10	7-10	7-11	7-11	8-0	8-0
225.00	9-8	9-8	9-9	9-10	9-11	9-11	10-0	10-1	10-1	10-2
250.00	11-11	12-0	12-1	12-2	12-2	12-3	12-4	12-5	12-6	12-7
275.00	14-5	14-6	14-7	14-8	14-9	14-10	14-11	15-0	15-1	15-2
300.00	17-2	17-3	17-5	17-6	17-7	17-8	17-10	17-11	18-0	18-1
325.00	20-2	20-4	20-5	20-7	20-8	20-9	20-11	21-0	21-2	21-3
350.00	23-5	23-7	23-8	23-10	24-0	24-2	24-3	24-5	24-7	24-8
375.00	26-11	27-1	27-3	27-5	27-7	27-9	27-11	28-1	28-2	28-4

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SHEET 45 OF 198	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH823.45
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN GO95 HEAVY LOADING 336.4 RTS TRIPLEX TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	4-6	4-6	4-6	4-6	4-7	4-7	4-7	4-7	4-7	4-7
100.00	8-0	8-1	8-1	8-1	8-1	8-2	8-2	8-2	8-3	8-3
125.00	12-7	12-8	12-8	12-9	12-9	12-10	12-10	12-11	12-11	12-11
150.00	18-3	18-4	18-4	18-5	18-6	18-6	18-7	18-8	18-9	18-9
175.00	25-0	25-1	25-2	25-3	25-4	25-5	25-6	25-7	25-8	25-8
200.00	32-11	33-0	33-2	33-3	33-4	33-5	33-7	33-8	33-9	33-10

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	4-6	4-6	4-6	4-7	4-7	4-7	4-7	4-7	4-7	4-7
100.00	8-1	8-1	8-1	8-1	8-2	8-2	8-2	8-3	8-3	8-3
125.00	12-8	12-8	12-9	12-9	12-10	12-10	12-10	12-11	12-11	12-11
150.00	18-4	18-4	18-5	18-6	18-6	18-7	18-8	18-8	18-9	18-9
175.00	25-1	25-2	25-3	25-4	25-5	25-6	25-7	25-7	25-8	25-9
200.00	33-0	33-1	33-3	33-4	33-5	33-7	33-8	33-9	33-10	33-10

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 49 OF 198	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH823.49
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING 336.4 RTS TRIPLEX TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span:	200.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	8-7	8-7	8-8	8-8	8-8	8-8	8-8	8-8	8-8	8-8
125.00	13-6	13-7	13-7	13-7	13-7	13-7	13-7	13-7	13-7	13-7
150.00	19-7	19-8	19-8	19-8	19-8	19-8	19-8	19-9	19-9	19-9
175.00	26-11	26-11	26-11	27-0	27-0	27-0	27-0	27-1	27-1	27-1
200.00	35-6	35-6	35-6	35-7	35-7	35-7	35-7	35-8	35-8	35-8
225.00	45-4	45-5	45-5	45-5	45-6	45-6	45-7	45-7	45-7	45-8
250.00	56-8	56-8	56-9	56-9	56-10	56-10	56-11	56-11	57-0	57-0

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	8-7	8-8	8-8	8-8	8-8	8-8	8-8	8-8	8-8	8-8
125.00	13-6	13-7	13-7	13-7	13-7	13-7	13-7	13-7	13-7	13-7
150.00	19-8	19-8	19-8	19-8	19-8	19-8	19-9	19-9	19-9	19-9
175.00	26-11	26-11	27-0	27-0	27-0	27-0	27-0	27-1	27-1	27-1
200.00	35-6	35-6	35-7	35-7	35-7	35-7	35-8	35-8	35-8	35-8
225.00	45-5	45-5	45-5	45-6	45-6	45-7	45-7	45-7	45-7	45-8
250.00	56-8	56-9	56-9	56-10	56-10	56-11	56-11	56-11	57-0	57-0

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SHEET 50 OF 198		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH823.50
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING 336.4 RTS TRIPLEX TENSION 1000 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	6.303	22.03	1500	22.03	1500*
0	0	0	0	1.120	21.83	269	21.77	270
30	0	0	0	1.120	21.94	268	21.89	268
40	0	0	0	1.120	21.98	267	21.93	268
50	0	0	0	1.120	22.02	267	21.97	267
60	0	0	0	1.120	22.06	266	22.00	267
70	0	0	0	1.120	22.10	266	22.04	266
80	0	0	0	1.120	22.13	265	22.08	266
90	0	0	0	1.120	22.16	265	22.12	266
100	0	0	0	1.120	22.19	265	22.15	265
110	0	0	0	1.120	22.21	265	22.19	265
120	0	0	0	1.120	22.24	264	22.23	264
130	0	0	0	1.120	22.26	264	22.26	264
167	0	0	0	1.120	22.36	263	22.35	263
212	0	0	0	1.120	22.47	262	22.46	262

* Design Condition

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B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D							
SHEET 51 OF 198		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH823.51
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING 336.4 RTS TRIPLEX TENSION 1500 LBS											

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	6.303	53.30	1500	53.30	1500*
0	0	0	0	1.120	53.09	267	53.03	268
30	0	0	0	1.120	53.21	267	53.15	267
40	0	0	0	1.120	53.24	267	53.19	267
50	0	0	0	1.120	53.28	267	53.23	267
60	0	0	0	1.120	53.32	266	53.27	267
70	0	0	0	1.120	53.36	266	53.30	267
80	0	0	0	1.120	53.40	266	53.34	266
90	0	0	0	1.120	53.42	266	53.38	266
100	0	0	0	1.120	53.45	266	53.42	266
110	0	0	0	1.120	53.47	266	53.45	266
120	0	0	0	1.120	53.50	266	53.49	266
130	0	0	0	1.120	53.52	266	53.52	266
167	0	0	0	1.120	53.62	265	53.61	265
212	0	0	0	1.120	53.73	265	53.73	265

* Design Condition

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	6.303	109.85	1500	109.85	1500*
0	0	0	0	1.120	109.65	267	109.59	267
30	0	0	0	1.120	109.76	267	109.71	267
40	0	0	0	1.120	109.80	267	109.75	267
50	0	0	0	1.120	109.83	267	109.78	267
60	0	0	0	1.120	109.87	267	109.82	267
70	0	0	0	1.120	109.91	266	109.85	267
80	0	0	0	1.120	109.94	266	109.89	266
90	0	0	0	1.120	109.97	266	109.93	266
100	0	0	0	1.120	109.99	266	109.96	266
110	0	0	0	1.120	110.02	266	110.00	266
120	0	0	0	1.120	110.04	266	110.04	266
130	0	0	0	1.120	110.07	266	110.06	266
167	0	0	0	1.120	110.16	266	110.15	266
212	0	0	0	1.120	110.27	266	110.26	266

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D							
SHEET 52 OF 198		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH823.52
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING 336.4 RTS TRIPLEX TENSION 1500 LBS											

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-6	5-6	5-6
125.00	8-5	8-6	8-6	8-6	8-6	8-6	8-7	8-7	8-7	8-7
150.00	12-3	12-3	12-3	12-3	12-4	12-4	12-4	12-4	12-5	12-5
175.00	16-8	16-8	16-9	16-9	16-9	16-10	16-10	16-10	16-11	16-11
200.00	21-10	21-11	21-11	22-0	22-0	22-0	22-1	22-1	22-2	22-2
225.00	27-9	27-10	27-10	27-11	28-0	28-0	28-1	28-1	28-2	28-2
250.00	34-5	34-6	34-7	34-7	34-8	34-9	34-10	34-10	34-11	35-0

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	5-5	5-5	5-5	5-5	5-5	5-6	5-6	5-6	5-6	5-6
125.00	8-6	8-6	8-6	8-6	8-6	8-7	8-7	8-7	8-7	8-7
150.00	12-3	12-3	12-3	12-4	12-4	12-4	12-4	12-5	12-5	12-5
175.00	16-9	16-9	16-9	16-10	16-10	16-10	16-11	16-11	16-11	16-11
200.00	21-11	21-11	22-0	22-0	22-1	22-1	22-2	22-2	22-2	22-3
225.00	27-10	27-11	27-11	28-0	28-0	28-1	28-2	28-2	28-2	28-3
250.00	34-6	34-7	34-8	34-9	34-9	34-10	34-11	34-11	35-0	35-0

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>54 OF 198</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH823.54</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	STRINGING SAG TABLES: 200' RULING SPAN SDG&E EXTRA HEAVY LOADING 336.4 RTS TRIPLEX TENSION 1500 LBS						

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	25-9	25-9	25-9	25-9	25-9	25-9	25-10	25-10	25-10	25-10
225.00	32-9	32-9	32-9	32-10	32-10	32-10	32-10	32-10	32-10	32-10
250.00	40-9	40-9	40-9	40-9	40-9	40-9	40-9	40-10	40-10	40-10
275.00	49-7	49-7	49-8	49-8	49-8	49-8	49-8	49-8	49-9	49-9
300.00	59-6	59-6	59-6	59-6	59-7	59-7	59-7	59-7	59-7	59-8
325.00	70-4	70-5	70-5	70-5	70-6	70-6	70-6	70-6	70-7	70-7
350.00	82-4	82-4	82-5	82-5	82-5	82-6	82-6	82-6	82-7	82-7
375.00	95-5	95-5	95-6	95-6	95-7	95-7	95-7	95-8	95-8	95-8
400.00	109-8	109-9	109-9	109-9	109-10	109-10	109-11	109-11	110-0	110-0
425.00	125-2	125-2	125-3	125-3	125-4	125-4	125-5	125-5	125-6	125-6
450.00	141-11	141-11	142-0	142-1	142-1	142-2	142-2	142-3	142-4	142-4
475.00	160-0	160-1	160-2	160-2	160-3	160-4	160-4	160-5	160-6	160-6
500.00	179-7	179-7	179-8	179-9	179-10	179-10	179-11	180-0	180-1	180-1

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	25-9	25-9	25-9	25-9	25-9	25-10	25-10	25-10	25-10	25-10
225.00	32-9	32-10	32-10	32-10	32-10	32-10	32-10	32-10	32-10	32-10
250.00	40-9	40-9	40-9	40-9	40-9	40-9	40-10	40-10	40-10	40-10
275.00	49-7	49-8	49-8	49-8	49-8	49-8	49-9	49-9	49-9	49-9
300.00	59-6	59-6	59-6	59-7	59-7	59-7	59-7	59-8	59-8	59-8
325.00	70-5	70-5	70-5	70-6	70-6	70-6	70-6	70-7	70-7	70-7
350.00	82-5	82-5	82-5	82-5	82-6	82-6	82-6	82-7	82-7	82-7
375.00	95-6	95-6	95-6	95-7	95-7	95-7	95-8	95-8	95-8	95-9
400.00	109-9	109-9	109-10	109-10	109-10	109-11	109-11	110-0	110-0	110-0
425.00	125-2	125-3	125-3	125-4	125-4	125-5	125-6	125-6	125-6	125-7
450.00	142-0	142-0	142-1	142-1	142-2	142-3	142-3	142-4	142-4	142-4
475.00	160-1	160-2	160-2	160-3	160-4	160-5	160-5	160-6	160-6	160-7
500.00	179-8	179-8	179-9	179-10	179-11	180-0	180-0	180-1	180-1	180-2

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 56 OF 198		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH823.56
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING 336.4 RTS TRIPLEX TENSION 1500 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	6.303	16.17	2000	16.17	2000*
0	0	0	0	1.120	15.80	363	15.70	366
30	0	0	0	1.120	15.95	360	15.85	362
40	0	0	0	1.120	16.01	359	15.90	361
50	0	0	0	1.120	16.06	358	15.95	360
60	0	0	0	1.120	16.11	357	16.00	359
70	0	0	0	1.120	16.16	356	16.05	358
80	0	0	0	1.120	16.21	355	16.10	357
90	0	0	0	1.120	16.25	354	16.15	356
100	0	0	0	1.120	16.29	353	16.20	355
110	0	0	0	1.120	16.32	352	16.25	354
120	0	0	0	1.120	16.35	352	16.30	353
130	0	0	0	1.120	16.39	351	16.35	352
167	0	0	0	1.120	16.51	348	16.50	349
212	0	0	0	1.120	16.66	346	16.65	346

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>57 OF 198</p> </div>	Indicates Latest Revision	Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH823.57</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 100' & 200' RULING SPAN SDG&E EXTRA HEAVY LOADING</p> <p>336.4 RTS TRIPLEX TENSION 2000 LBS</p> </div>					

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 58 OF 198		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH823.58
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN SDG&E EXTRA HEAVY LOADING 336.4 RTS TRIPLEX TENSION 2000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0	1.00G	12	0	6.303	122.49	2000	122.49	2000*
0	0	0	0	1.120	122.13	356	122.04	356
30	0	0	0	1.120	122.28	356	122.18	356
40	0	0	0	1.120	122.33	356	122.23	356
50	0	0	0	1.120	122.38	356	122.28	356
60	0	0	0	1.120	122.43	355	122.33	356
70	0	0	0	1.120	122.48	355	122.38	356
80	0	0	0	1.120	122.53	355	122.43	355
90	0	0	0	1.120	122.57	355	122.47	355
100	0	0	0	1.120	122.61	355	122.52	355
110	0	0	0	1.120	122.64	355	122.57	355
120	0	0	0	1.120	122.67	355	122.62	355
130	0	0	0	1.120	122.70	355	122.67	355
167	0	0	0	1.120	122.83	355	122.82	355
212	0	0	0	1.120	122.98	355	122.96	355

* Design Condition

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

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Information Removed

SHEET
59 OF 198

DESIGN TABLES: 500' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS

OH823.59

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-0	2-1	2-1	2-1	2-2	2-2	2-2	2-3	2-3	2-3
100.00	3-7	3-8	3-8	3-9	3-10	3-10	3-11	3-11	4-0	4-1
125.00	5-7	5-8	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4
150.00	8-1	8-2	8-4	8-5	8-7	8-8	8-9	8-11	9-0	9-2
175.00	11-0	11-2	11-4	11-6	11-8	11-10	12-0	12-2	12-4	12-5
200.00	14-5	14-8	14-10	15-1	15-3	15-6	15-8	15-11	16-1	16-3

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-1	2-1	2-2	2-2	2-2	2-3	2-3	2-3	2-3	2-4
100.00	3-8	3-9	3-10	3-10	3-11	3-11	4-0	4-1	4-1	4-1
125.00	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-4	6-5
150.00	8-4	8-5	8-7	8-8	8-10	8-11	9-0	9-1	9-2	9-3
175.00	11-4	11-6	11-8	11-10	12-0	12-2	12-4	12-5	12-6	12-8
200.00	14-10	15-1	15-3	15-6	15-8	15-11	16-1	16-3	16-5	16-6

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SHEET 60 OF 198	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH823.60
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN SDG&E EXTRA HEAVY LOADING 336.4 RTS TRIPLEX TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	17-2	17-2	17-2	17-2	17-3	17-3	17-3	17-3	17-3	17-3
225.00	21-9	21-10	21-10	21-10	21-10	21-10	21-11	21-11	21-11	21-11
250.00	27-0	27-0	27-0	27-0	27-1	27-1	27-1	27-1	27-1	27-2
275.00	32-9	32-9	32-9	32-10	32-10	32-10	32-11	32-11	32-11	32-11
300.00	39-1	39-2	39-2	39-2	39-3	39-3	39-3	39-4	39-4	39-4
325.00	46-1	46-1	46-2	46-2	46-2	46-3	46-3	46-3	46-4	46-4
350.00	53-8	53-8	53-9	53-9	53-10	53-10	53-10	53-11	53-11	54-0
375.00	61-10	61-11	61-11	62-0	62-0	62-1	62-1	62-2	62-2	62-3
400.00	70-8	70-9	70-10	70-10	70-11	70-11	71-0	71-1	71-1	71-2
425.00	80-2	80-3	80-4	80-5	80-5	80-6	80-7	80-7	80-8	80-9
450.00	90-5	90-5	90-6	90-7	90-8	90-9	90-9	90-10	90-11	91-0
475.00	101-3	101-4	101-5	101-6	101-7	101-8	101-9	101-9	101-10	101-11
500.00	112-10	112-11	113-0	113-1	113-2	113-3	113-4	113-5	113-6	113-7

Stringing Sag Table Using Final Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	17-2	17-2	17-3	17-3	17-3	17-3	17-3	17-3	17-3	17-3
225.00	21-10	21-10	21-10	21-10	21-11	21-11	21-11	21-11	21-11	21-11
250.00	27-0	27-0	27-1	27-1	27-1	27-1	27-2	27-2	27-2	27-2
275.00	32-10	32-10	32-10	32-10	32-11	32-11	32-11	32-11	33-0	33-0
300.00	39-2	39-2	39-3	39-3	39-3	39-4	39-4	39-4	39-4	39-5
325.00	46-2	46-2	46-2	46-3	46-3	46-4	46-4	46-4	46-4	46-5
350.00	53-9	53-9	53-10	53-10	53-10	53-11	53-11	54-0	54-0	54-0
375.00	61-11	62-0	62-0	62-1	62-1	62-2	62-2	62-3	62-3	62-4
400.00	70-10	70-10	70-11	70-11	71-0	71-1	71-1	71-2	71-2	71-3
425.00	80-4	80-5	80-5	80-6	80-7	80-7	80-8	80-9	80-9	80-10
450.00	90-6	90-7	90-8	90-9	90-9	90-10	90-11	91-0	91-0	91-1
475.00	101-5	101-6	101-7	101-8	101-9	101-10	101-10	101-11	102-0	102-0
500.00	113-0	113-1	113-2	113-3	113-4	113-5	113-6	113-7	113-8	113-9

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 400' RULING SPAN SDG&E EXTRA HEAVY LOADING
336.4 RTS TRIPLEX TENSION 2000 LBS


OH823.63

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	2.128	10.85	992	10.76	1000*
20	0	0	0	1.12	10.46	541	10.35	547
30	0	0	0	1.12	10.54	537	10.42	543
40	0	0	0	1.12	10.62	533	10.5	539
50	0	0	0	1.12	10.69	530	10.57	536
60	0	0	0	1.12	10.77	526	10.65	532
70	0	0	0	1.12	10.84	523	10.72	528
80	0	0	0	1.12	10.92	519	10.79	525
90	0	0	0	1.12	10.99	516	10.87	521
100	0	0	0	1.12	11.06	512	10.94	518
110	0	0	0	1.12	11.14	509	11.01	515
120	0	0	0	1.12	11.21	506	11.08	512
130	0	0	0	1.12	11.28	503	11.15	508
167	0	0	0	1.12	11.46	495	11.41	497
212	0	0	0	1.12	11.66	487	11.65	487

* Design Condition

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<div style="text-align: center;"> <p>SHEET</p> <p>65 OF 198</p> </div>	Indicates Latest Revision		Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH823.65</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING</p> <p>336.4 RTS TRIPLEX TENSION 1000 LBS</p> </div>						

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	2.128	24.67	997	24.58	1000*
20	0	0	0	1.12	24.28	533	24.17	535
30	0	0	0	1.12	24.36	531	24.24	533
40	0	0	0	1.12	24.43	529	24.32	532
50	0	0	0	1.12	24.51	528	24.39	530
60	0	0	0	1.12	24.59	526	24.47	529
70	0	0	0	1.12	24.66	525	24.54	527
80	0	0	0	1.12	24.74	523	24.61	526
90	0	0	0	1.12	24.81	522	24.69	524
100	0	0	0	1.12	24.89	520	24.76	523
110	0	0	0	1.12	24.96	519	24.83	521
120	0	0	0	1.12	25.03	517	24.91	520
130	0	0	0	1.12	25.11	516	24.98	518
167	0	0	0	1.12	25.3	512	25.25	513
212	0	0	0	1.12	25.52	508	25.51	508

* Design Condition

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	2.128	44.77	998	44.69	1000*
20	0	0	0	1.12	44.39	530	44.27	531
30	0	0	0	1.12	44.46	529	44.35	530
40	0	0	0	1.12	44.54	528	44.42	529
50	0	0	0	1.12	44.62	527	44.5	528
60	0	0	0	1.12	44.69	526	44.57	528
70	0	0	0	1.12	44.77	526	44.64	527
80	0	0	0	1.12	44.84	525	44.72	526
90	0	0	0	1.12	44.92	524	44.79	525
100	0	0	0	1.12	44.99	523	44.87	524
110	0	0	0	1.12	45.07	522	44.94	524
120	0	0	0	1.12	45.14	522	45.01	523
130	0	0	0	1.12	45.22	521	45.09	522
167	0	0	0	1.12	45.42	519	45.36	519
212	0	0	0	1.12	45.64	516	45.63	517
* Design Condition								

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		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING 336.4 RTS TRIPLEX TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	2.128	72.13	999	72.05	1000*
20	0	0	0	1.12	71.75	528	71.64	529
30	0	0	0	1.12	71.83	528	71.71	528
40	0	0	0	1.12	71.9	527	71.78	528
50	0	0	0	1.12	71.98	527	71.86	528
60	0	0	0	1.12	72.05	526	71.93	527
70	0	0	0	1.12	72.13	526	72.01	527
80	0	0	0	1.12	72.2	525	72.08	526
90	0	0	0	1.12	72.28	525	72.15	526
100	0	0	0	1.12	72.35	525	72.23	525
110	0	0	0	1.12	72.43	524	72.3	525
120	0	0	0	1.12	72.5	524	72.37	524
130	0	0	0	1.12	72.58	523	72.45	524
167	0	0	0	1.12	72.78	522	72.72	522
212	0	0	0	1.12	73.01	521	72.99	521
* Design Condition								

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.67

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-7	1-7	1-8
100.00	2-3	2-4	2-5	2-6	2-7	2-8	2-8	2-9	2-10	2-11
125.00	3-6	3-8	3-9	3-11	4-0	4-1	4-3	4-4	4-5	4-6
150.00	5-1	5-3	5-5	5-7	5-9	5-11	6-1	6-3	6-5	6-6
175.00	6-11	7-2	7-5	7-8	7-10	8-1	8-3	8-6	8-8	8-11
200.00	9-1	9-4	9-8	10-0	10-3	10-7	10-10	11-1	11-4	11-8

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-4	1-5	1-5	1-6	1-6	1-7	1-7	1-7	1-8	1-8
100.00	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-11	3-0
125.00	3-9	3-10	3-11	4-1	4-2	4-3	4-5	4-6	4-7	4-8
150.00	5-4	5-6	5-8	5-10	6-0	6-2	6-4	6-6	6-8	6-9
175.00	7-3	7-6	7-9	8-0	8-2	8-5	8-8	8-10	9-1	9-3
200.00	9-6	9-10	10-2	10-5	10-9	11-0	11-3	11-7	11-10	12-1

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	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING 336.4 RTS TRIPLEX TENSION 1000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-7	2-7	2-7	2-8	2-8	2-8	2-8	2-9	2-9	2-9
125.00	4-0	4-1	4-1	4-1	4-2	4-2	4-2	4-3	4-3	4-3
150.00	5-10	5-10	5-11	5-11	6-0	6-0	6-1	6-1	6-2	6-2
175.00	7-11	8-0	8-0	8-1	8-2	8-2	8-3	8-4	8-4	8-5
200.00	10-4	10-5	10-6	10-7	10-8	10-9	10-10	10-10	10-11	11-0
225.00	13-1	13-2	13-4	13-5	13-6	13-7	13-8	13-9	13-10	13-11
250.00	16-2	16-4	16-5	16-7	16-8	16-9	16-11	17-0	17-2	17-3

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-7	2-8	2-8	2-8	2-8	2-8	2-9	2-9	2-9	2-9
125.00	4-1	4-1	4-2	4-2	4-2	4-3	4-3	4-3	4-4	4-4
150.00	5-11	5-11	6-0	6-0	6-1	6-1	6-2	6-2	6-3	6-3
175.00	8-0	8-1	8-1	8-2	8-3	8-4	8-4	8-5	8-6	8-6
200.00	10-6	10-6	10-7	10-8	10-9	10-10	10-11	11-0	11-1	11-2
225.00	13-3	13-4	13-5	13-7	13-8	13-9	13-10	13-11	14-0	14-1
250.00	16-5	16-6	16-7	16-9	16-10	17-0	17-1	17-3	17-4	17-5

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		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING 336.4 RTS TRIPLEX TENSION 1000 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-0	6-0	6-0	6-1	6-1	6-1	6-1	6-2	6-2	6-2
175.00	8-2	8-2	8-3	8-3	8-3	8-4	8-4	8-4	8-5	8-5
200.00	10-8	10-9	10-9	10-9	10-10	10-10	10-11	10-11	10-11	11-0
225.00	13-7	13-7	13-8	13-8	13-9	13-9	13-9	13-10	13-10	13-11
250.00	16-9	16-9	16-10	16-11	16-11	17-0	17-1	17-1	17-2	17-2
275.00	20-3	20-4	20-5	20-6	20-6	20-7	20-8	20-9	20-9	20-10
300.00	24-2	24-3	24-4	24-5	24-6	24-6	24-7	24-8	24-9	24-10
325.00	28-5	28-6	28-7	28-8	28-9	28-10	28-11	29-0	29-1	29-2
350.00	33-0	33-1	33-2	33-4	33-5	33-6	33-7	33-9	33-10	33-11
375.00	37-11	38-1	38-2	38-4	38-5	38-6	38-8	38-9	38-11	39-0

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-0	6-1	6-1	6-1	6-1	6-1	6-2	6-2	6-2	6-2
175.00	8-3	8-3	8-3	8-4	8-4	8-4	8-4	8-5	8-5	8-5
200.00	10-9	10-9	10-10	10-10	10-10	10-11	10-11	11-0	11-0	11-0
225.00	13-7	13-8	13-8	13-9	13-9	13-10	13-10	13-11	13-11	14-0
250.00	16-10	16-10	16-11	17-0	17-0	17-1	17-2	17-2	17-3	17-3
275.00	20-4	20-5	20-6	20-7	20-8	20-8	20-9	20-10	20-11	20-11
300.00	24-3	24-4	24-5	24-6	24-7	24-8	24-9	24-10	24-11	25-0
325.00	28-6	28-8	28-9	28-10	28-11	29-0	29-1	29-2	29-3	29-4
350.00	33-2	33-3	33-4	33-6	33-7	33-8	33-9	33-11	34-0	34-1
375.00	38-1	38-3	38-4	38-6	38-7	38-9	38-10	39-0	39-1	39-2

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>70 OF 198</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH823.70</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING</p> <p>336.4 RTS TRIPLEX TENSION 1000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	10-11	10-11	11-0	11-0	11-0	11-0	11-1	11-1	11-1	11-1
225.00	13-10	13-11	13-11	13-11	13-11	14-0	14-0	14-0	14-0	14-1
250.00	17-2	17-2	17-2	17-3	17-3	17-3	17-4	17-4	17-4	17-5
275.00	20-9	20-9	20-10	20-10	20-11	20-11	20-11	21-0	21-0	21-1
300.00	24-9	24-9	24-10	24-10	24-11	24-11	25-0	25-0	25-1	25-1
325.00	29-1	29-1	29-2	29-3	29-3	29-4	29-4	29-5	29-5	29-6
350.00	33-9	33-10	33-11	33-11	34-0	34-1	34-1	34-2	34-3	34-3
375.00	38-10	38-11	39-0	39-0	39-1	39-2	39-3	39-4	39-4	39-5
400.00	44-3	44-4	44-5	44-6	44-7	44-8	44-9	44-10	44-10	44-11
425.00	50-1	50-2	50-3	50-4	50-5	50-6	50-7	50-8	50-9	50-10
450.00	56-3	56-4	56-6	56-7	56-8	56-9	56-10	56-11	57-0	57-1
475.00	62-10	62-11	63-1	63-2	63-3	63-4	63-6	63-7	63-8	63-10
500.00	69-10	69-11	70-0	70-2	70-3	70-5	70-6	70-8	70-9	70-10

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-0	11-0	11-0	11-0	11-0	11-1	11-1	11-1	11-1	11-2
225.00	13-11	13-11	13-11	14-0	14-0	14-0	14-0	14-1	14-1	14-1
250.00	17-2	17-2	17-3	17-3	17-3	17-4	17-4	17-4	17-5	17-5
275.00	20-10	20-10	20-11	20-11	20-11	21-0	21-0	21-1	21-1	21-1
300.00	24-10	24-10	24-11	24-11	25-0	25-0	25-1	25-1	25-2	25-2
325.00	29-2	29-2	29-3	29-4	29-4	29-5	29-5	29-6	29-6	29-7
350.00	33-10	33-11	34-0	34-0	34-1	34-2	34-2	34-3	34-4	34-4
375.00	38-11	39-0	39-1	39-2	39-2	39-3	39-4	39-5	39-6	39-6
400.00	44-5	44-6	44-6	44-7	44-8	44-9	44-10	44-11	45-0	45-1
425.00	50-3	50-4	50-5	50-6	50-7	50-8	50-9	50-10	50-11	51-0
450.00	56-5	56-6	56-7	56-8	56-10	56-11	57-0	57-1	57-2	57-3
475.00	63-0	63-1	63-3	63-4	63-5	63-7	63-8	63-9	63-10	64-0
500.00	70-0	70-1	70-3	70-4	70-6	70-7	70-8	70-10	70-11	71-1

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 71 OF 198		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH823.71
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING 336.4 RTS TRIPLEX TENSION 1000 LBS									

* Design Condition

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 73 OF 198		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH823.73
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH LIGHT LOADING 336.4 RTS TRIPLEX TENSION 1500 LBS									

* Design Condition

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>74 OF 198</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH823.74
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH LIGHT LOADING 336.4 RTS TRIPLEX TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	10.8	0	2.128	45.97	1495	45.82	1500*
20	0	0	0	1.12	45.28	798	45.05	802
30	0	0	0	1.12	45.39	797	45.16	800
40	0	0	0	1.12	45.5	795	45.27	799
50	0	0	0	1.12	45.62	793	45.38	797
60	0	0	0	1.12	45.73	791	45.49	795
70	0	0	0	1.12	45.84	789	45.6	793
80	0	0	0	1.12	45.96	787	45.71	791
90	0	0	0	1.12	46.07	786	45.82	790
100	0	0	0	1.12	46.18	784	45.93	788
110	0	0	0	1.12	46.29	782	46.04	786
120	0	0	0	1.12	46.41	780	46.15	784
130	0	0	0	1.12	46.52	779	46.26	783
167	0	0	0	1.12	46.93	772	46.66	776
212	0	0	0	1.12	47.3	766	47.15	769

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

OH823.75

Stringing Sag Table Using Initial Sag										Ruling Span: 100.0 Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-8	0-8	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-1
100.00	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11
125.00	1-10	1-11	2-1	2-3	2-4	2-6	2-8	2-9	2-11	3-1
150.00	2-7	2-9	3-0	3-2	3-5	3-7	3-10	4-0	4-2	4-5
175.00	3-6	3-10	4-1	4-4	4-7	4-11	5-2	5-5	5-9	6-0
200.00	4-7	5-0	5-4	5-8	6-0	6-5	6-9	7-1	7-6	7-10

Stringing Sag Table Using Final Sag										Ruling Span: 100.0 Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-3
100.00	1-4	1-5	1-6	1-7	1-9	1-10	1-11	2-0	2-1	2-2
125.00	2-1	2-3	2-4	2-6	2-8	2-10	3-0	3-1	3-3	3-4
150.00	3-0	3-2	3-5	3-8	3-10	4-1	4-3	4-6	4-8	4-10
175.00	4-0	4-4	4-8	4-11	5-3	5-6	5-10	6-1	6-4	6-7
200.00	5-3	5-8	6-1	6-6	6-10	7-3	7-7	7-11	8-4	8-8

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 76 OF 198	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH823.76
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 65MPH LIGHT LOADING 336.4 RTS TRIPLEX TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span:	300.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-10	3-10	3-11	3-11	3-11	4-0	4-0	4-0	4-1	4-1
175.00	5-3	5-3	5-4	5-4	5-4	5-5	5-5	5-6	5-6	5-7
200.00	6-10	6-10	6-11	7-0	7-0	7-1	7-1	7-2	7-2	7-3
225.00	8-8	8-8	8-9	8-10	8-11	8-11	9-0	9-1	9-2	9-2
250.00	10-8	10-9	10-10	10-11	11-0	11-1	11-1	11-2	11-3	11-4
275.00	12-11	13-0	13-1	13-2	13-3	13-5	13-6	13-7	13-8	13-9
300.00	15-4	15-6	15-7	15-8	15-10	15-11	16-0	16-2	16-3	16-4
325.00	18-1	18-2	18-4	18-5	18-7	18-8	18-10	19-0	19-1	19-3
350.00	20-11	21-1	21-3	21-5	21-7	21-8	21-10	22-0	22-2	22-4
375.00	24-1	24-3	24-5	24-7	24-9	24-11	25-1	25-3	25-5	25-7

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	3-11	3-11	3-11	4-0	4-0	4-0	4-1	4-1	4-1	4-2
175.00	5-4	5-4	5-4	5-5	5-5	5-6	5-6	5-7	5-7	5-8
200.00	6-11	7-0	7-0	7-1	7-1	7-2	7-3	7-3	7-4	7-4
225.00	8-9	8-10	8-11	8-11	9-0	9-1	9-2	9-2	9-3	9-4
250.00	10-10	10-11	11-0	11-1	11-2	11-3	11-4	11-4	11-5	11-6
275.00	13-1	13-2	13-4	13-5	13-6	13-7	13-8	13-9	13-10	13-11
300.00	15-7	15-9	15-10	15-11	16-1	16-2	16-3	16-5	16-6	16-7
325.00	18-4	18-5	18-7	18-9	18-10	19-0	19-1	19-3	19-5	19-6
350.00	21-3	21-5	21-7	21-9	21-11	22-0	22-2	22-4	22-6	22-8
375.00	24-5	24-7	24-9	25-0	25-2	25-4	25-6	25-8	25-10	26-0

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>78 OF 198</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH823.78
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 65MPH LIGHT LOADING 336.4 RTS TRIPLEX TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-0	7-0	7-1	7-1	7-1	7-2	7-2	7-2	7-3	7-3
225.00	8-11	8-11	8-11	9-0	9-0	9-1	9-1	9-1	9-2	9-2
250.00	11-0	11-0	11-1	11-1	11-2	11-2	11-3	11-3	11-4	11-4
275.00	13-3	13-4	13-5	13-5	13-6	13-6	13-7	13-8	13-8	13-9
300.00	15-10	15-11	15-11	16-0	16-1	16-1	16-2	16-3	16-4	16-4
325.00	18-7	18-8	18-9	18-9	18-10	18-11	19-0	19-1	19-2	19-3
350.00	21-7	21-8	21-9	21-10	21-11	22-0	22-1	22-2	22-3	22-4
375.00	24-9	24-10	24-11	25-1	25-2	25-3	25-4	25-5	25-6	25-8
400.00	28-2	28-4	28-5	28-6	28-8	28-9	28-10	29-0	29-1	29-2
425.00	31-10	32-0	32-1	32-3	32-4	32-6	32-7	32-9	32-10	33-0
450.00	35-9	35-11	36-0	36-2	36-4	36-5	36-7	36-9	36-10	37-0
475.00	39-10	40-0	40-2	40-4	40-6	40-8	40-10	41-0	41-1	41-3
500.00	44-3	44-5	44-7	44-9	44-11	45-1	45-3	45-5	45-7	45-9

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-1	7-1	7-2	7-2	7-2	7-3	7-3	7-3	7-4	7-4
225.00	8-11	9-0	9-0	9-1	9-1	9-2	9-2	9-2	9-3	9-3
250.00	11-1	11-1	11-2	11-2	11-3	11-3	11-4	11-4	11-5	11-5
275.00	13-5	13-5	13-6	13-7	13-7	13-8	13-8	13-9	13-10	13-10
300.00	15-11	16-0	16-1	16-2	16-2	16-3	16-4	16-5	16-5	16-6
325.00	18-9	18-10	18-10	18-11	19-0	19-1	19-2	19-3	19-4	19-5
350.00	21-9	21-10	21-11	22-0	22-1	22-2	22-3	22-4	22-5	22-6
375.00	25-0	25-1	25-2	25-3	25-4	25-6	25-7	25-8	25-9	25-10
400.00	28-5	28-6	28-8	28-9	28-11	29-0	29-1	29-3	29-4	29-5
425.00	32-1	32-3	32-4	32-6	32-8	32-9	32-11	33-0	33-2	33-3
450.00	36-0	36-2	36-4	36-6	36-7	36-9	36-11	37-1	37-2	37-4
475.00	40-2	40-4	40-6	40-8	40-10	41-0	41-2	41-4	41-6	41-8
500.00	44-7	44-9	44-11	45-1	45-4	45-6	45-8	45-10	46-0	46-2

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 79 OF 198		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH823.79
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING 336.4 RTS TRIPLEX TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
50	0	10.8	0	2.128	34.07	1988	33.86	2000*
20	0	0	0	1.12	33	1079	32.61	1092
30	0	0	0	1.12	33.15	1074	32.76	1087
40	0	0	0	1.12	33.31	1070	32.91	1082
50	0	0	0	1.12	33.46	1065	33.05	1077
60	0	0	0	1.12	33.61	1060	33.2	1073
70	0	0	0	1.12	33.76	1056	33.35	1068
80	0	0	0	1.12	33.91	1051	33.49	1064
90	0	0	0	1.12	34.06	1047	33.64	1059
100	0	0	0	1.12	34.2	1042	33.78	1055
110	0	0	0	1.12	34.35	1038	33.93	1051
120	0	0	0	1.12	34.5	1034	34.07	1046
130	0	0	0	1.12	34.64	1030	34.21	1042
167	0	0	0	1.12	35.18	1015	34.74	1027
212	0	0	0	1.12	35.82	997	35.38	1009
* Design Condition								

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>83 OF 198</p> </div>	Indicates Latest Revision		Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH823.83</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH LIGHT LOADING</p> <p>336.4 RTS TRIPLEX TENSION 2000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-1	1-1	1-1	1-2	1-2	1-3	1-3	1-3	1-4	1-4
125.00	1-8	1-8	1-9	1-10	1-10	1-11	1-11	2-0	2-1	2-1
150.00	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	3-0	3-0
175.00	3-3	3-4	3-5	3-6	3-8	3-9	3-10	3-11	4-0	4-2
200.00	4-2	4-4	4-6	4-7	4-9	4-11	5-0	5-2	5-3	5-5
225.00	5-4	5-6	5-8	5-10	6-0	6-2	6-4	6-6	6-8	6-10
250.00	6-7	6-9	7-0	7-2	7-5	7-7	7-10	8-0	8-3	8-5

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-2	1-2	1-3	1-3	1-3	1-4	1-4	1-5	1-5	1-5
125.00	1-9	1-10	1-11	1-11	2-0	2-1	2-1	2-2	2-3	2-3
150.00	2-7	2-8	2-9	2-10	2-11	2-11	3-0	3-1	3-2	3-3
175.00	3-6	3-7	3-8	3-10	3-11	4-0	4-2	4-3	4-4	4-5
200.00	4-7	4-8	4-10	5-0	5-1	5-3	5-5	5-6	5-8	5-9
225.00	5-9	5-11	6-2	6-4	6-6	6-8	6-10	7-0	7-2	7-4
250.00	7-1	7-4	7-7	7-10	8-0	8-3	8-5	8-8	8-10	9-1

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SHEET 85 OF 198	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH823.85
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 65MPH LIGHT LOADING 336.4 RTS TRIPLEX TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-1	5-1	5-2	5-2	5-2	5-3	5-3	5-4	5-4	5-5
225.00	6-5	6-5	6-6	6-7	6-7	6-8	6-8	6-9	6-9	6-10
250.00	7-11	8-0	8-0	8-1	8-2	8-2	8-3	8-4	8-4	8-5
275.00	9-7	9-8	9-9	9-9	9-10	9-11	10-0	10-1	10-1	10-2
300.00	11-5	11-6	11-7	11-8	11-9	11-10	11-11	12-0	12-1	12-2
325.00	13-5	13-6	13-7	13-8	13-9	13-10	13-11	14-1	14-2	14-3
350.00	15-6	15-8	15-9	15-10	16-0	16-1	16-2	16-4	16-5	16-6
375.00	17-10	17-11	18-1	18-3	18-4	18-6	18-7	18-9	18-10	19-0
400.00	20-3	20-5	20-7	20-9	20-10	21-0	21-2	21-4	21-5	21-7
425.00	22-11	23-1	23-3	23-5	23-7	23-9	23-11	24-1	24-3	24-5
450.00	25-8	25-11	26-1	26-3	26-5	26-8	26-10	27-0	27-2	27-4
475.00	28-8	28-10	29-1	29-3	29-6	29-8	29-11	30-1	30-4	30-6
500.00	31-9	32-0	32-3	32-5	32-8	32-11	33-2	33-4	33-7	33-10

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	5-2	5-2	5-3	5-3	5-4	5-4	5-5	5-5	5-5	5-6
225.00	6-6	6-7	6-7	6-8	6-9	6-9	6-10	6-10	6-11	6-11
250.00	8-1	8-1	8-2	8-3	8-4	8-4	8-5	8-6	8-6	8-7
275.00	9-9	9-10	9-11	10-0	10-0	10-1	10-2	10-3	10-4	10-5
300.00	11-7	11-8	11-9	11-10	11-11	12-0	12-1	12-2	12-3	12-4
325.00	13-8	13-9	13-10	13-11	14-0	14-2	14-3	14-4	14-5	14-6
350.00	15-10	15-11	16-1	16-2	16-3	16-5	16-6	16-7	16-9	16-10
375.00	18-2	18-4	18-5	18-7	18-8	18-10	18-11	19-1	19-3	19-4
400.00	20-8	20-10	21-0	21-2	21-3	21-5	21-7	21-9	21-10	22-0
425.00	23-4	23-6	23-8	23-10	24-0	24-2	24-4	24-6	24-8	24-10
450.00	26-2	26-5	26-7	26-9	27-0	27-2	27-4	27-6	27-8	27-11
475.00	29-2	29-5	29-8	29-10	30-1	30-3	30-6	30-8	30-11	31-1
500.00	32-4	32-7	32-10	33-1	33-4	33-7	33-9	34-0	34-3	34-6

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SHEET 87 OF 198		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH823.87
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH LIGHT LOADING 336.4 RTS TRIPLEX TENSION 2000 LBS									

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-3	8-3	8-3	8-4	8-4	8-5	8-5	8-6	8-6	8-7
275.00	9-11	10-0	10-0	10-1	10-1	10-2	10-3	10-3	10-4	10-4
300.00	11-10	11-11	11-11	12-0	12-1	12-1	12-2	12-3	12-3	12-4
325.00	13-11	14-0	14-0	14-1	14-2	14-3	14-3	14-4	14-5	14-6
350.00	16-1	16-2	16-3	16-4	16-5	16-6	16-7	16-8	16-8	16-9
375.00	18-6	18-7	18-8	18-9	18-10	18-11	19-0	19-1	19-2	19-3
400.00	21-1	21-2	21-3	21-4	21-6	21-7	21-8	21-9	21-10	21-11
425.00	23-10	23-11	24-0	24-2	24-3	24-4	24-5	24-7	24-8	24-9
450.00	26-8	26-10	26-11	27-1	27-2	27-4	27-5	27-7	27-8	27-9
475.00	29-9	29-11	30-0	30-2	30-4	30-5	30-7	30-9	30-10	31-0
500.00	33-0	33-2	33-4	33-5	33-7	33-9	33-11	34-1	34-2	34-4
525.00	36-5	36-7	36-9	36-11	37-1	37-3	37-5	37-7	37-9	37-11
550.00	40-0	40-2	40-4	40-6	40-9	40-11	41-1	41-3	41-5	41-7
575.00	43-9	43-11	44-2	44-4	44-6	44-9	44-11	45-2	45-4	45-6
600.00	47-8	47-10	48-1	48-4	48-6	48-9	48-11	49-2	49-5	49-7
625.00	51-9	52-0	52-3	52-5	52-8	52-11	53-2	53-5	53-8	53-10

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SHEET 88 OF 198		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH823.88
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN 65MPH LIGHT LOADING 336.4 RTS TRIPLEX TENSION 2000 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	2.128	10.84	993	10.76	1000*
0	0	0	0	1.12	10.53	538	10.42	543
30	0	0	0	1.12	10.76	527	10.65	532
40	0	0	0	1.12	10.83	523	10.72	528
50	0	0	0	1.12	10.91	520	10.79	525
60	0	0	0	1.12	10.98	516	10.86	522
70	0	0	0	1.12	11.05	513	10.94	518
80	0	0	0	1.12	11.13	510	11.01	515
90	0	0	0	1.12	11.2	506	11.08	512
100	0	0	0	1.12	11.27	503	11.15	508
110	0	0	0	1.12	11.34	500	11.22	505
120	0	0	0	1.12	11.41	497	11.29	502
130	0	0	0	1.12	11.48	494	11.36	499
167	0	0	0	1.12	11.66	487	11.62	489
212	0	0	0	1.12	11.86	479	11.84	479
* Design Condition								

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SHEET 89 OF 198		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH823.89
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING 336.4 RTS TRIPLEX TENSION 1000 LBS											

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	2.128	72.12	999	72.05	1000*
0	0	0	0	1.12	71.82	528	71.71	528
30	0	0	0	1.12	72.04	526	71.93	527
40	0	0	0	1.12	72.12	526	72	527
50	0	0	0	1.12	72.19	525	72.08	526
60	0	0	0	1.12	72.27	525	72.15	526
70	0	0	0	1.12	72.35	525	72.22	525
80	0	0	0	1.12	72.42	524	72.3	525
90	0	0	0	1.12	72.5	524	72.37	524
100	0	0	0	1.12	72.57	523	72.45	524
110	0	0	0	1.12	72.65	523	72.52	524
120	0	0	0	1.12	72.72	522	72.59	523
130	0	0	0	1.12	72.8	522	72.67	523
167	0	0	0	1.12	73	521	72.94	521
212	0	0	0	1.12	73.22	519	73.21	519

* Design Condition

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.91

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-1	6-1	6-1	6-1	6-2	6-2	6-2	6-2	6-2	6-3
175.00	8-3	8-3	8-4	8-4	8-4	8-5	8-5	8-5	8-5	8-6
200.00	10-9	10-10	10-10	10-11	10-11	10-11	11-0	11-0	11-1	11-1
225.00	13-8	13-8	13-9	13-9	13-10	13-10	13-11	13-11	14-0	14-0
250.00	16-11	16-11	17-0	17-1	17-1	17-2	17-2	17-3	17-4	17-4
275.00	20-6	20-6	20-7	20-8	20-9	20-9	20-10	20-11	20-11	21-0
300.00	24-5	24-6	24-6	24-7	24-8	24-9	24-10	24-11	25-0	25-1
325.00	28-8	28-9	28-10	28-11	29-0	29-1	29-2	29-3	29-4	29-5
350.00	33-4	33-5	33-6	33-7	33-8	33-10	33-11	34-0	34-1	34-2
375.00	38-4	38-5	38-6	38-8	38-9	38-11	39-0	39-1	39-3	39-4

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-1	6-1	6-1	6-2	6-2	6-2	6-2	6-3	6-3	6-3
175.00	8-3	8-4	8-4	8-4	8-5	8-5	8-5	8-6	8-6	8-6
200.00	10-10	10-10	10-11	10-11	11-0	11-0	11-0	11-1	11-1	11-2
225.00	13-9	13-9	13-10	13-10	13-11	13-11	14-0	14-0	14-1	14-1
250.00	17-0	17-0	17-1	17-2	17-2	17-3	17-3	17-4	17-5	17-5
275.00	20-7	20-7	20-8	20-9	20-10	20-10	20-11	21-0	21-1	21-1
300.00	24-6	24-7	24-8	24-9	24-10	24-11	24-11	25-0	25-1	25-2
325.00	28-10	28-11	29-0	29-1	29-2	29-3	29-4	29-5	29-6	29-7
350.00	33-5	33-7	33-8	33-9	33-10	34-0	34-1	34-2	34-3	34-5
375.00	38-6	38-7	38-9	38-10	38-11	39-1	39-2	39-4	39-5	39-6

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SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS

STRINGING SAG TABLES: 300' RULING SPAN 65MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1000 LBS

OH823.94

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-0	11-0	11-0	11-1	11-1	11-1	11-1	11-1	11-2	11-2
225.00	13-11	13-11	14-0	14-0	14-0	14-0	14-1	14-1	14-1	14-2
250.00	17-3	17-3	17-3	17-4	17-4	17-4	17-5	17-5	17-5	17-6
275.00	20-10	20-11	20-11	20-11	21-0	21-0	21-1	21-1	21-2	21-2
300.00	24-10	24-11	24-11	25-0	25-0	25-1	25-1	25-2	25-2	25-3
325.00	29-3	29-3	29-4	29-4	29-5	29-5	29-6	29-7	29-7	29-8
350.00	33-11	34-0	34-1	34-1	34-2	34-3	34-3	34-4	34-5	34-5
375.00	39-0	39-1	39-2	39-3	39-3	39-4	39-5	39-6	39-7	39-7
400.00	44-6	44-7	44-8	44-9	44-9	44-10	44-11	45-0	45-1	45-2
425.00	50-4	50-5	50-6	50-7	50-8	50-9	50-10	50-11	51-0	51-1
450.00	56-7	56-8	56-9	56-10	56-11	57-0	57-1	57-3	57-4	57-5
475.00	63-2	63-3	63-4	63-6	63-7	63-8	63-10	63-11	64-0	64-1
500.00	70-2	70-3	70-5	70-6	70-7	70-9	70-10	71-0	71-1	71-3

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-0	11-0	11-1	11-1	11-1	11-1	11-2	11-2	11-2	11-2
225.00	14-0	14-0	14-0	14-0	14-1	14-1	14-1	14-1	14-2	14-2
250.00	17-3	17-3	17-4	17-4	17-4	17-5	17-5	17-5	17-6	17-6
275.00	20-11	20-11	21-0	21-0	21-1	21-1	21-1	21-2	21-2	21-3
300.00	24-11	24-11	25-0	25-0	25-1	25-1	25-2	25-2	25-3	25-3
325.00	29-3	29-4	29-5	29-5	29-6	29-6	29-7	29-8	29-8	29-9
350.00	34-0	34-1	34-2	34-2	34-3	34-4	34-4	34-5	34-6	34-6
375.00	39-2	39-2	39-3	39-4	39-5	39-6	39-6	39-7	39-8	39-9
400.00	44-7	44-8	44-9	44-10	44-11	45-0	45-1	45-2	45-3	45-3
425.00	50-6	50-7	50-8	50-9	50-10	50-11	51-0	51-1	51-2	51-3
450.00	56-8	56-10	56-11	57-0	57-1	57-2	57-3	57-4	57-6	57-7
475.00	63-4	63-5	63-6	63-8	63-9	63-10	64-0	64-1	64-2	64-3
500.00	70-4	70-5	70-7	70-8	70-10	70-11	71-1	71-2	71-4	71-5

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 95 OF 198		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH823.95	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING 336.4 RTS TRIPLEX TENSION 1000 LBS										

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>97 OF 198</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH823.97
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING 336.4 RTS TRIPLEX TENSION 1500 LBS									

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>98 OF 198</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH823.98
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 65MPH HEAVY LOADING 336.4 RTS TRIPLEX TENSION 1500 LBS									


Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	2.128	45.95	1496	45.82	1500*
0	0	0	0	1.12	45.37	797	45.15	800
30	0	0	0	1.12	45.72	791	45.49	795
40	0	0	0	1.12	45.83	789	45.6	793
50	0	0	0	1.12	45.94	788	45.71	791
60	0	0	0	1.12	46.05	786	45.82	790
70	0	0	0	1.12	46.17	784	45.93	788
80	0	0	0	1.12	46.28	782	46.04	786
90	0	0	0	1.12	46.39	781	46.15	784
100	0	0	0	1.12	46.5	779	46.25	783
110	0	0	0	1.12	46.61	777	46.36	781
120	0	0	0	1.12	46.73	775	46.47	779
130	0	0	0	1.12	46.84	774	46.58	778
167	0	0	0	1.12	47.24	767	46.98	771
212	0	0	0	1.12	47.61	762	47.47	764

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>99 OF 198</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH823.99</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING</p> <p>336.4 RTS TRIPLEX TENSION 1500 LBS</p> </div>				

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-8	1-8	1-9	1-9	1-9	1-10	1-10	1-10	1-11	1-11
125.00	2-7	2-8	2-8	2-9	2-9	2-10	2-10	2-11	2-11	3-0
150.00	3-9	3-10	3-11	3-11	4-0	4-1	4-1	4-2	4-3	4-3
175.00	5-2	5-3	5-4	5-4	5-5	5-6	5-7	5-8	5-9	5-10
200.00	6-8	6-10	6-11	7-0	7-2	7-3	7-4	7-5	7-6	7-8
225.00	8-6	8-7	8-9	8-11	9-0	9-2	9-3	9-5	9-6	9-8
250.00	10-6	10-8	10-10	11-0	11-2	11-4	11-6	11-8	11-9	11-11

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-9	1-9	1-9	1-10	1-10	1-10	1-11	1-11	1-11	2-0
125.00	2-8	2-9	2-9	2-10	2-10	2-11	2-11	3-0	3-0	3-1
150.00	3-11	3-11	4-0	4-1	4-2	4-2	4-3	4-4	4-4	4-5
175.00	5-3	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-11	6-0
200.00	6-11	7-0	7-2	7-3	7-4	7-5	7-7	7-8	7-9	7-10
225.00	8-9	8-11	9-0	9-2	9-4	9-5	9-7	9-8	9-10	9-11
250.00	10-10	11-0	11-2	11-4	11-6	11-8	11-10	12-0	12-2	12-4

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<div style="text-align: center;"> <p>SHEET</p> <p>101 OF 198</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH823.101</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 200' RULING SPAN 65MPH HEAVY LOADING</p> <p>336.4 RTS TRIPLEX TENSION 1500 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-1	7-1	7-2	7-2	7-2	7-3	7-3	7-3	7-4	7-4
225.00	9-0	9-0	9-1	9-1	9-1	9-2	9-2	9-3	9-3	9-3
250.00	11-1	11-2	11-2	11-3	11-3	11-4	11-4	11-5	11-5	11-6
275.00	13-5	13-6	13-6	13-7	13-8	13-8	13-9	13-10	13-10	13-11
300.00	16-0	16-1	16-1	16-2	16-3	16-4	16-4	16-5	16-6	16-7
325.00	18-9	18-10	18-11	19-0	19-1	19-2	19-3	19-3	19-4	19-5
350.00	21-10	21-11	22-0	22-1	22-2	22-3	22-4	22-5	22-6	22-7
375.00	25-1	25-2	25-3	25-4	25-5	25-6	25-7	25-9	25-10	25-11
400.00	28-6	28-8	28-9	28-10	29-0	29-1	29-2	29-3	29-5	29-6
425.00	32-3	32-4	32-6	32-7	32-9	32-10	33-0	33-1	33-3	33-4
450.00	36-2	36-4	36-5	36-7	36-9	36-10	37-0	37-2	37-3	37-5
475.00	40-4	40-6	40-8	40-10	40-11	41-1	41-3	41-5	41-7	41-9
500.00	44-9	44-11	45-1	45-3	45-5	45-7	45-9	45-11	46-1	46-3

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	7-2	7-2	7-2	7-3	7-3	7-3	7-4	7-4	7-4	7-5
225.00	9-1	9-1	9-1	9-2	9-2	9-3	9-3	9-4	9-4	9-4
250.00	11-2	11-3	11-3	11-4	11-4	11-5	11-5	11-6	11-6	11-7
275.00	13-6	13-7	13-8	13-8	13-9	13-10	13-10	13-11	13-11	14-0
300.00	16-1	16-2	16-3	16-4	16-4	16-5	16-6	16-7	16-7	16-8
325.00	18-11	19-0	19-1	19-2	19-3	19-4	19-5	19-5	19-6	19-7
350.00	22-0	22-1	22-2	22-3	22-4	22-5	22-6	22-7	22-8	22-9
375.00	25-3	25-4	25-5	25-7	25-8	25-9	25-10	25-11	26-0	26-2
400.00	28-9	28-10	29-0	29-1	29-2	29-4	29-5	29-6	29-8	29-9
425.00	32-6	32-7	32-9	32-10	33-0	33-1	33-3	33-4	33-6	33-7
450.00	36-5	36-7	36-9	36-11	37-0	37-2	37-4	37-5	37-7	37-9
475.00	40-8	40-10	41-0	41-2	41-4	41-5	41-7	41-9	41-11	42-1
500.00	45-1	45-3	45-5	45-7	45-10	46-0	46-2	46-4	46-6	46-8

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<div>SHEET</div> <div>103 OF 198</div>		Indicates Latest Revision		Completely Revised		X	New Page	Information Removed		OH823.103	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 65MPH HEAVY LOADING 336.4 RTS TRIPLEX TENSION 1500 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	10.8	0	2.128	5.48	1946	5.33	2000*
0	0	0	0	1.12	4.64	1209	4.33	1296
30	0	0	0	1.12	5.07	1107	4.74	1185
40	0	0	0	1.12	5.21	1078	4.87	1153
50	0	0	0	1.12	5.34	1051	5	1123
60	0	0	0	1.12	5.48	1025	5.13	1094
70	0	0	0	1.12	5.61	1001	5.26	1068
80	0	0	0	1.12	5.74	979	5.39	1042
90	0	0	0	1.12	5.87	958	5.51	1019
100	0	0	0	1.12	5.99	938	5.64	996
110	0	0	0	1.12	6.11	919	5.76	975
120	0	0	0	1.12	6.24	902	5.88	955
130	0	0	0	1.12	6.36	885	6	936
167	0	0	0	1.12	6.78	829	6.43	874
212	0	0	0	1.12	7.12	791	6.93	812
* Design Condition								

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>105 OF 198</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH823.105
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 65MPH HEAVY LOADING 336.4 RTS TRIPLEX TENSION 2000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	10.8	0	2.128	34.04	1989	33.86	2000*
0	0	0	0	1.12	33.12	1075	32.75	1087
30	0	0	0	1.12	33.58	1061	33.19	1073
40	0	0	0	1.12	33.73	1057	33.34	1069
50	0	0	0	1.12	33.88	1052	33.48	1064
60	0	0	0	1.12	34.03	1048	33.63	1060
70	0	0	0	1.12	34.17	1043	33.77	1055
80	0	0	0	1.12	34.32	1039	33.92	1051
90	0	0	0	1.12	34.47	1035	34.06	1047
100	0	0	0	1.12	34.62	1031	34.2	1043
110	0	0	0	1.12	34.76	1026	34.35	1038
120	0	0	0	1.12	34.91	1022	34.49	1034
130	0	0	0	1.12	35.05	1018	34.63	1030
167	0	0	0	1.12	35.58	1004	35.15	1015
212	0	0	0	1.12	36.22	987	35.78	998
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<div style="text-align: center;"> <p>SHEET</p> <p>107 OF 198</p> </div>	Indicates Latest Revision	Completely Revised	New Page	Information Removed	<div style="text-align: center;"> <p>OH823.107</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 65MPH HEAVY LOADING</p> <p>336.4 RTS TRIPLEX TENSION 2000 LBS</p> </div>				

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-3	8-3	8-4	8-4	8-4	8-5	8-5	8-6	8-6	8-7
275.00	9-11	10-0	10-1	10-1	10-2	10-2	10-3	10-3	10-4	10-4
300.00	11-10	11-11	11-11	12-0	12-1	12-1	12-2	12-3	12-3	12-4
325.00	13-11	14-0	14-0	14-1	14-2	14-3	14-3	14-4	14-5	14-6
350.00	16-2	16-3	16-3	16-4	16-5	16-6	16-7	16-8	16-8	16-9
375.00	18-6	18-7	18-8	18-9	18-10	18-11	19-0	19-1	19-2	19-3
400.00	21-1	21-2	21-3	21-5	21-6	21-7	21-8	21-9	21-10	21-11
425.00	23-10	23-11	24-1	24-2	24-3	24-4	24-6	24-7	24-8	24-9
450.00	26-9	26-10	27-0	27-1	27-2	27-4	27-5	27-7	27-8	27-9
475.00	29-10	29-11	30-1	30-2	30-4	30-6	30-7	30-9	30-10	31-0
500.00	33-1	33-2	33-4	33-6	33-8	33-9	33-11	34-1	34-2	34-4
525.00	36-5	36-7	36-9	36-11	37-1	37-3	37-5	37-7	37-9	37-11
550.00	40-0	40-3	40-5	40-7	40-9	40-11	41-1	41-3	41-5	41-7
575.00	43-9	44-0	44-2	44-4	44-7	44-9	44-11	45-2	45-4	45-6
600.00	47-8	47-11	48-2	48-4	48-7	48-9	49-0	49-2	49-5	49-7
625.00	51-10	52-0	52-3	52-6	52-9	52-11	53-2	53-5	53-8	53-10

Stringing Sag Table Using Final Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	8-4	8-4	8-5	8-5	8-6	8-6	8-6	8-7	8-7	8-8
275.00	10-1	10-1	10-2	10-2	10-3	10-4	10-4	10-5	10-5	10-6
300.00	12-0	12-1	12-1	12-2	12-2	12-3	12-4	12-4	12-5	12-6
325.00	14-1	14-2	14-2	14-3	14-4	14-5	14-5	14-6	14-7	14-8
350.00	16-4	16-5	16-6	16-7	16-7	16-8	16-9	16-10	16-11	17-0
375.00	18-9	18-10	18-11	19-0	19-1	19-2	19-3	19-4	19-5	19-6
400.00	21-4	21-5	21-6	21-8	21-9	21-10	21-11	22-0	22-1	22-2
425.00	24-1	24-3	24-4	24-5	24-7	24-8	24-9	24-10	25-0	25-1
450.00	27-1	27-2	27-3	27-5	27-6	27-8	27-9	27-11	28-0	28-1
475.00	30-2	30-3	30-5	30-7	30-8	30-10	30-11	31-1	31-3	31-4
500.00	33-5	33-7	33-9	33-11	34-0	34-2	34-4	34-6	34-7	34-9
525.00	36-11	37-1	37-2	37-4	37-6	37-8	37-10	38-0	38-2	38-4
550.00	40-6	40-8	40-10	41-1	41-3	41-5	41-7	41-9	41-11	42-1
575.00	44-3	44-6	44-8	44-11	45-1	45-3	45-6	45-8	45-10	46-1
600.00	48-3	48-6	48-8	48-11	49-2	49-4	49-7	49-9	50-0	50-2
625.00	52-5	52-8	52-11	53-1	53-4	53-7	53-10	54-1	54-3	54-6

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<div>SHEET</div> <div>112 OF 198</div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH823.112
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 500' RULING SPAN 65MPH HEAVY LOADING 336.4 RTS TRIPLEX TENSION 2000 LBS									

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<div>SHEET</div> <div>114 OF 198</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH823.114
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING 336.4 RTS TRIPLEX TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-2	2-2	2-2	2-3	2-3	2-3	2-4	2-4	2-4	2-5
100.00	3-10	3-11	3-11	4-0	4-0	4-1	4-1	4-2	4-3	4-3
125.00	6-0	6-1	6-2	6-3	6-4	6-4	6-5	6-6	6-7	6-8
150.00	8-8	8-9	8-10	9-0	9-1	9-2	9-4	9-5	9-6	9-7
175.00	11-9	11-11	12-1	12-3	12-5	12-6	12-8	12-10	13-0	13-1
200.00	15-5	15-7	15-10	16-0	16-3	16-5	16-7	16-10	17-0	17-2

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-2	2-3	2-3	2-3	2-4	2-4	2-4	2-5	2-5	2-5
100.00	3-11	3-11	4-0	4-0	4-1	4-2	4-2	4-3	4-3	4-4
125.00	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-7	6-8	6-9
150.00	8-9	8-11	9-0	9-1	9-3	9-4	9-5	9-7	9-8	9-9
175.00	11-11	12-1	12-3	12-5	12-7	12-9	12-10	13-0	13-2	13-3
200.00	15-8	15-10	16-1	16-3	16-5	16-8	16-10	17-1	17-3	17-5

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SHEET 115 OF 198	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH823.115
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 85MPH LIGHT LOADING 336.4 RTS TRIPLEX TENSION 1000 LBS					

Span = 100 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	3.295	2.79	1479	2.75	1500*
20	0	0	0	1.12	2.25	623	2.13	658
30	0	0	0	1.12	2.33	602	2.21	634
40	0	0	0	1.12	2.41	582	2.29	613
50	0	0	0	1.12	2.49	565	2.37	593
60	0	0	0	1.12	2.56	548	2.44	575
70	0	0	0	1.12	2.63	533	2.51	559
80	0	0	0	1.12	2.71	519	2.58	543
90	0	0	0	1.12	2.78	506	2.65	529
100	0	0	0	1.12	2.84	494	2.72	516
110	0	0	0	1.12	2.91	483	2.79	503
120	0	0	0	1.12	2.98	472	2.86	492
130	0	0	0	1.12	3.03	464	2.92	481
167	0	0	0	1.12	3.17	443	3.15	446
212	0	0	0	1.12	3.34	421	3.33	423

* Design Condition

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	3.295	11.16	1495	11.12	1500*
20	0	0	0	1.12	10.62	533	10.5	539
30	0	0	0	1.12	10.69	530	10.58	535
40	0	0	0	1.12	10.77	526	10.65	532
50	0	0	0	1.12	10.84	523	10.73	528
60	0	0	0	1.12	10.92	519	10.8	525
70	0	0	0	1.12	10.99	516	10.87	521
80	0	0	0	1.12	11.06	512	10.94	518
90	0	0	0	1.12	11.14	509	11.02	515
100	0	0	0	1.12	11.21	506	11.09	511
110	0	0	0	1.12	11.28	503	11.16	508
120	0	0	0	1.12	11.35	500	11.23	505
130	0	0	0	1.12	11.42	497	11.3	502
167	0	0	0	1.12	11.6	489	11.56	491
212	0	0	0	1.12	11.8	481	11.79	482

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>120 OF 198</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH823.120
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH LIGHT LOADING 336.4 RTS TRIPLEX TENSION 1500 LBS									


Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	3.295	74.88	1499	74.84	1500*
20	0	0	0	1.12	74.34	513	74.23	513
30	0	0	0	1.12	74.41	512	74.31	513
40	0	0	0	1.12	74.49	512	74.38	513
50	0	0	0	1.12	74.56	511	74.45	512
60	0	0	0	1.12	74.63	511	74.52	512
70	0	0	0	1.12	74.71	511	74.59	511
80	0	0	0	1.12	74.78	510	74.66	511
90	0	0	0	1.12	74.85	510	74.74	510
100	0	0	0	1.12	74.93	509	74.81	510
110	0	0	0	1.12	75	509	74.88	510
120	0	0	0	1.12	75.07	509	74.95	509
130	0	0	0	1.12	75.15	508	75.02	509
167	0	0	0	1.12	75.34	507	75.29	507
212	0	0	0	1.12	75.55	506	75.54	506

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>121 OF 198</p> </div>	Indicates Latest Revision		Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH823.121</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>336.4 RTS TRIPLEX TENSION 1500 LBS</p> </div>					

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-7	2-8	2-8	2-8	2-8	2-9	2-9	2-9	2-9	2-9
125.00	4-1	4-1	4-2	4-2	4-3	4-3	4-3	4-4	4-4	4-4
150.00	5-11	5-11	6-0	6-0	6-1	6-1	6-2	6-2	6-3	6-3
175.00	8-0	8-1	8-2	8-2	8-3	8-4	8-4	8-5	8-6	8-6
200.00	10-6	10-7	10-8	10-9	10-10	10-10	10-11	11-0	11-1	11-2
225.00	13-4	13-5	13-6	13-7	13-8	13-9	13-10	13-11	14-1	14-2
250.00	16-5	16-7	16-8	16-10	16-11	17-0	17-2	17-3	17-4	17-6

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-8	2-8	2-8	2-8	2-9	2-9	2-9	2-9	2-10	2-10
125.00	4-2	4-2	4-2	4-3	4-3	4-3	4-4	4-4	4-4	4-5
150.00	6-0	6-0	6-1	6-1	6-2	6-2	6-3	6-3	6-4	6-4
175.00	8-1	8-2	8-3	8-4	8-4	8-5	8-6	8-6	8-7	8-8
200.00	10-7	10-8	10-9	10-10	10-11	11-0	11-1	11-2	11-2	11-3
225.00	13-5	13-7	13-8	13-9	13-10	13-11	14-0	14-1	14-2	14-4
250.00	16-7	16-9	16-10	17-0	17-1	17-3	17-4	17-5	17-7	17-8

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SHEET 123 OF 198	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH823.123
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING 336.4 RTS TRIPLEX TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span: 300.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-2	6-2	6-2	6-3	6-3	6-3	6-3	6-3	6-4	6-4
175.00	8-5	8-5	8-5	8-6	8-6	8-6	8-6	8-7	8-7	8-7
200.00	11-0	11-0	11-0	11-1	11-1	11-2	11-2	11-2	11-3	11-3
225.00	13-11	13-11	14-0	14-0	14-1	14-1	14-2	14-2	14-3	14-3
250.00	17-2	17-3	17-3	17-4	17-5	17-5	17-6	17-6	17-7	17-8
275.00	20-10	20-11	20-11	21-0	21-1	21-1	21-2	21-3	21-4	21-4
300.00	24-10	24-11	25-0	25-0	25-1	25-2	25-3	25-4	25-5	25-6
325.00	29-2	29-3	29-4	29-5	29-6	29-7	29-8	29-9	29-10	29-11
350.00	33-11	34-0	34-1	34-2	34-3	34-5	34-6	34-7	34-8	34-9
375.00	39-0	39-1	39-2	39-4	39-5	39-6	39-8	39-9	39-11	40-0

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-2	6-2	6-3	6-3	6-3	6-3	6-4	6-4	6-4	6-4
175.00	8-5	8-5	8-6	8-6	8-6	8-7	8-7	8-7	8-8	8-8
200.00	11-0	11-1	11-1	11-1	11-2	11-2	11-3	11-3	11-3	11-4
225.00	14-0	14-0	14-1	14-1	14-2	14-2	14-3	14-3	14-3	14-4
250.00	17-3	17-4	17-4	17-5	17-6	17-6	17-7	17-7	17-8	17-9
275.00	20-11	21-0	21-0	21-1	21-2	21-3	21-3	21-4	21-5	21-6
300.00	24-11	25-0	25-1	25-2	25-3	25-4	25-4	25-5	25-6	25-7
325.00	29-4	29-5	29-6	29-7	29-8	29-9	29-10	29-11	30-0	30-1
350.00	34-0	34-2	34-3	34-4	34-5	34-6	34-8	34-9	34-10	34-11
375.00	39-2	39-3	39-4	39-6	39-7	39-9	39-10	40-0	40-1	40-2

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 124 OF 198		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH823.124
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING 336.4 RTS TRIPLEX TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-3	11-4	11-4	11-4	11-4	11-4	11-5	11-5	11-5	11-5
225.00	14-3	14-4	14-4	14-4	14-5	14-5	14-5	14-5	14-6	14-6
250.00	17-8	17-8	17-9	17-9	17-9	17-10	17-10	17-10	17-11	17-11
275.00	21-5	21-5	21-6	21-6	21-6	21-7	21-7	21-8	21-8	21-8
300.00	25-6	25-7	25-7	25-8	25-8	25-9	25-9	25-9	25-10	25-10
325.00	30-0	30-0	30-1	30-2	30-2	30-3	30-3	30-4	30-4	30-5
350.00	34-10	34-11	34-11	35-0	35-1	35-1	35-2	35-3	35-3	35-4
375.00	40-1	40-2	40-2	40-3	40-4	40-5	40-5	40-6	40-7	40-8
400.00	45-8	45-9	45-10	45-11	46-0	46-1	46-1	46-2	46-3	46-4
425.00	51-8	51-9	51-10	51-11	52-0	52-1	52-2	52-3	52-4	52-5
450.00	58-1	58-2	58-3	58-4	58-5	58-7	58-8	58-9	58-10	58-11
475.00	64-10	65-0	65-1	65-2	65-3	65-5	65-6	65-7	65-8	65-10
500.00	72-1	72-2	72-4	72-5	72-6	72-8	72-9	72-10	73-0	73-1

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-4	11-4	11-4	11-4	11-5	11-5	11-5	11-5	11-5	11-6
225.00	14-4	14-4	14-4	14-5	14-5	14-5	14-6	14-6	14-6	14-6
250.00	17-8	17-9	17-9	17-9	17-10	17-10	17-10	17-11	17-11	17-11
275.00	21-5	21-6	21-6	21-7	21-7	21-7	21-8	21-8	21-9	21-9
300.00	25-7	25-7	25-8	25-8	25-9	25-9	25-10	25-10	25-11	25-11
325.00	30-1	30-1	30-2	30-2	30-3	30-4	30-4	30-5	30-5	30-6
350.00	34-11	35-0	35-0	35-1	35-2	35-2	35-3	35-4	35-4	35-5
375.00	40-2	40-3	40-4	40-4	40-5	40-6	40-7	40-7	40-8	40-9
400.00	45-10	45-10	45-11	46-0	46-1	46-2	46-3	46-4	46-5	46-5
425.00	51-10	51-11	52-0	52-1	52-2	52-3	52-4	52-5	52-6	52-7
450.00	58-3	58-4	58-5	58-6	58-7	58-8	58-9	58-11	59-0	59-1
475.00	65-0	65-2	65-3	65-4	65-5	65-7	65-8	65-9	65-10	66-0
500.00	72-3	72-4	72-6	72-7	72-9	72-10	72-11	73-1	73-2	73-4

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 125 OF 198		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH823.125
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH LIGHT LOADING 336.4 RTS TRIPLEX TENSION 1500 LBS										

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	3.295	8.33	1991	8.29	2000*
20	0	0	0	1.12	7.46	755	7.27	774
30	0	0	0	1.12	7.57	744	7.38	763
40	0	0	0	1.12	7.67	734	7.48	753
50	0	0	0	1.12	7.77	725	7.58	743
60	0	0	0	1.12	7.87	716	7.67	734
70	0	0	0	1.12	7.97	707	7.77	725
80	0	0	0	1.12	8.07	699	7.87	716
90	0	0	0	1.12	8.16	690	7.96	708
100	0	0	0	1.12	8.26	683	8.06	699
110	0	0	0	1.12	8.36	675	8.15	691
120	0	0	0	1.12	8.45	668	8.25	684
130	0	0	0	1.12	8.54	660	8.34	676
167	0	0	0	1.12	8.84	639	8.68	650
212	0	0	0	1.12	9.09	621	9.07	623

* Design Condition


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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 127 OF 198		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH823.127
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH LIGHT LOADING 336.4 RTS TRIPLEX TENSION 2000 LBS										

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	18.5	0	3.295	53.92	1999	53.88	2000*
20	0	0	0	1.12	53.05	690	52.88	692
30	0	0	0	1.12	53.15	688	52.97	690
40	0	0	0	1.12	53.25	687	53.07	689
50	0	0	0	1.12	53.35	686	53.17	688
60	0	0	0	1.12	53.45	685	53.26	687
70	0	0	0	1.12	53.55	684	53.36	686
80	0	0	0	1.12	53.65	683	53.45	685
90	0	0	0	1.12	53.74	681	53.55	684
100	0	0	0	1.12	53.84	680	53.65	683
110	0	0	0	1.12	53.94	679	53.74	681
120	0	0	0	1.12	54.04	678	53.84	680
130	0	0	0	1.12	54.13	677	53.93	679
167	0	0	0	1.12	54.48	673	54.28	675
212	0	0	0	1.12	54.77	670	54.71	670

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>129 OF 198</p> </div>	Indicates Latest Revision	Completely Revised	 New Page	Information Removed	<div style="text-align: center;"> <p>OH823.129</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS				
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>336.4 RTS TRIPLEX TENSION 2000 LBS</p> </div>				

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-10	1-10	1-10	1-11	1-11	1-11	2-0	2-0	2-0	2-0
125.00	2-10	2-11	2-11	2-11	3-0	3-0	3-1	3-1	3-2	3-2
150.00	4-1	4-2	4-2	4-3	4-4	4-4	4-5	4-6	4-6	4-7
175.00	5-7	5-8	5-9	5-10	5-10	5-11	6-0	6-1	6-2	6-3
200.00	7-3	7-5	7-6	7-7	7-8	7-9	7-10	8-0	8-1	8-2
225.00	9-3	9-4	9-6	9-7	9-9	9-10	10-0	10-1	10-2	10-4
250.00	11-5	11-6	11-8	11-10	12-0	12-2	12-4	12-6	12-7	12-9

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-10	1-11	1-11	1-11	2-0	2-0	2-0	2-0	2-1	2-1
125.00	2-11	2-11	3-0	3-0	3-1	3-1	3-2	3-2	3-3	3-3
150.00	4-2	4-3	4-4	4-4	4-5	4-6	4-6	4-7	4-8	4-8
175.00	5-9	5-9	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5
200.00	7-6	7-7	7-8	7-9	7-10	8-0	8-1	8-2	8-3	8-4
225.00	9-5	9-7	9-9	9-10	10-0	10-1	10-3	10-4	10-6	10-7
250.00	11-8	11-10	12-0	12-2	12-4	12-6	12-7	12-9	12-11	13-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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<div>SHEET</div> <div>131 OF 198</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH823.131
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 85MPH LIGHT LOADING 336.4 RTS TRIPLEX TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-5	4-6	4-6	4-6	4-6	4-7	4-7	4-7	4-8	4-8
175.00	6-1	6-1	6-1	6-2	6-2	6-2	6-3	6-3	6-4	6-4
200.00	7-11	7-11	8-0	8-0	8-1	8-1	8-2	8-2	8-3	8-3
225.00	10-0	10-1	10-1	10-2	10-3	10-3	10-4	10-5	10-5	10-6
250.00	12-4	12-5	12-6	12-7	12-7	12-8	12-9	12-10	12-11	12-11
275.00	14-11	15-0	15-1	15-2	15-3	15-4	15-5	15-6	15-7	15-8
300.00	17-10	17-11	18-0	18-1	18-2	18-4	18-5	18-6	18-7	18-8
325.00	20-11	21-0	21-2	21-3	21-5	21-6	21-7	21-9	21-10	21-11
350.00	24-3	24-5	24-7	24-8	24-10	24-11	25-1	25-3	25-4	25-6
375.00	27-11	28-1	28-3	28-4	28-6	28-8	28-10	29-0	29-2	29-3

Stringing Sag Table Using Final Sag

Ruling Span: 300.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-6	4-6	4-6	4-7	4-7	4-7	4-8	4-8	4-8	4-8
175.00	6-1	6-2	6-2	6-2	6-3	6-3	6-4	6-4	6-4	6-5
200.00	8-0	8-0	8-1	8-1	8-2	8-2	8-3	8-3	8-4	8-4
225.00	10-1	10-2	10-3	10-3	10-4	10-5	10-5	10-6	10-7	10-7
250.00	12-6	12-7	12-7	12-8	12-9	12-10	12-11	12-11	13-0	13-1
275.00	15-1	15-2	15-3	15-4	15-5	15-6	15-7	15-8	15-9	15-10
300.00	18-0	18-1	18-2	18-4	18-5	18-6	18-7	18-8	18-9	18-11
325.00	21-2	21-3	21-4	21-6	21-7	21-9	21-10	21-11	22-1	22-2
350.00	24-6	24-8	24-10	24-11	25-1	25-3	25-4	25-6	25-7	25-9
375.00	28-2	28-4	28-6	28-8	28-10	29-0	29-2	29-3	29-5	29-7

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SHEET 132 OF 198	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH823.132
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 85MPH LIGHT LOADING 336.4 RTS TRIPLEX TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag							Ruling Span:	500.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	13-1	13-1	13-1	13-2	13-2	13-2	13-3	13-3	13-3	13-3
275.00	15-10	15-10	15-11	15-11	15-11	16-0	16-0	16-0	16-1	16-1
300.00	18-10	18-11	18-11	19-0	19-0	19-0	19-1	19-1	19-2	19-2
325.00	22-2	22-2	22-3	22-3	22-4	22-4	22-5	22-5	22-6	22-6
350.00	25-9	25-9	25-10	25-10	25-11	25-11	26-0	26-1	26-1	26-2
375.00	29-7	29-7	29-8	29-9	29-9	29-10	29-10	29-11	30-0	30-0
400.00	33-8	33-9	33-9	33-10	33-11	34-0	34-0	34-1	34-2	34-3
425.00	38-1	38-1	38-2	38-3	38-4	38-5	38-6	38-6	38-7	38-8
450.00	42-9	42-9	42-10	42-11	43-0	43-1	43-2	43-3	43-4	43-5
475.00	47-8	47-9	47-10	47-11	48-0	48-1	48-2	48-3	48-4	48-5
500.00	52-11	53-0	53-1	53-2	53-3	53-4	53-5	53-7	53-8	53-9
525.00	58-5	58-6	58-7	58-8	58-10	58-11	59-0	59-2	59-3	59-4
550.00	64-2	64-4	64-5	64-6	64-8	64-9	64-11	65-0	65-1	65-3
575.00	70-3	70-5	70-6	70-8	70-9	70-11	71-0	71-2	71-3	71-5
600.00	76-8	76-9	76-11	77-1	77-2	77-4	77-6	77-7	77-9	77-11
625.00	83-4	83-5	83-7	83-9	83-11	84-1	84-3	84-4	84-6	84-8

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<div style="text-align: center;"> <p>SHEET</p> <p>134 OF 198</p> </div>	Indicates Latest Revision		Completely Revised	<div style="border: 1px solid black; padding: 2px;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH823.134</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 500' RULING SPAN 85MPH LIGHT LOADING</p> <p>336.4 RTS TRIPLEX TENSION 2000 LBS</p> </div>						

* Design Condition

* Design Condition

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>135 OF 198</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH823.135
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING 336.4 RTS TRIPLEX TENSION 1000 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-3	2-3	2-3	2-4	2-4	2-4	2-5	2-5	2-5	2-6
100.00	4-0	4-0	4-1	4-1	4-2	4-3	4-3	4-4	4-4	4-5
125.00	6-3	6-4	6-4	6-5	6-6	6-7	6-8	6-9	6-10	6-11
150.00	9-0	9-1	9-2	9-4	9-5	9-6	9-7	9-9	9-10	9-11
175.00	12-3	12-5	12-6	12-8	12-10	13-0	13-1	13-3	13-5	13-6
200.00	16-0	16-2	16-5	16-7	16-9	17-0	17-2	17-4	17-6	17-9

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-3	2-4	2-4	2-4	2-4	2-5	2-5	2-5	2-6	2-6
100.00	4-0	4-1	4-2	4-2	4-3	4-3	4-4	4-4	4-5	4-5
125.00	6-4	6-5	6-6	6-6	6-7	6-8	6-9	6-10	6-11	6-11
150.00	9-1	9-2	9-4	9-5	9-6	9-8	9-9	9-10	10-0	10-0
175.00	12-5	12-7	12-8	12-10	13-0	13-2	13-4	13-5	13-7	13-8
200.00	16-3	16-5	16-8	16-10	17-0	17-3	17-5	17-7	17-9	17-11

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<div style="text-align: center;"> <p>SHEET</p> <p>137 OF 198</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH823.137</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING</p> <p>336.4 RTS TRIPLEX TENSION 1000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	4-2	4-2	4-2	4-2	4-3	4-3	4-3	4-3	4-3	4-3
125.00	6-6	6-6	6-7	6-7	6-7	6-7	6-8	6-8	6-8	6-8
150.00	9-5	9-5	9-5	9-6	9-6	9-6	9-7	9-7	9-7	9-8
175.00	12-10	12-10	12-11	12-11	13-0	13-0	13-0	13-1	13-1	13-2
200.00	16-9	16-10	16-10	16-11	17-0	17-0	17-1	17-1	17-2	17-2
225.00	21-3	21-4	21-5	21-6	21-6	21-7	21-8	21-9	21-9	21-10
250.00	26-4	26-5	26-6	26-7	26-8	26-9	26-10	26-11	27-0	27-0

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	4-2	4-2	4-2	4-3	4-3	4-3	4-3	4-3	4-3	4-3
125.00	6-6	6-7	6-7	6-7	6-7	6-8	6-8	6-8	6-8	6-8
150.00	9-5	9-5	9-6	9-6	9-6	9-7	9-7	9-7	9-8	9-8
175.00	12-10	12-11	12-11	13-0	13-0	13-1	13-1	13-1	13-2	13-2
200.00	16-10	16-11	16-11	17-0	17-0	17-1	17-2	17-2	17-3	17-3
225.00	21-4	21-5	21-6	21-7	21-7	21-8	21-9	21-10	21-10	21-11
250.00	26-5	26-6	26-7	26-8	26-9	26-10	26-11	27-0	27-1	27-1

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SHEET 138 OF 198		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH823.138
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING 336.4 RTS TRIPLEX TENSION 1000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	3.295	74.87	1500	74.84	1500*
0	0	0	0	1.12	74.4	512	74.3	513
30	0	0	0	1.12	74.62	511	74.52	512
40	0	0	0	1.12	74.7	511	74.59	511
50	0	0	0	1.12	74.77	510	74.66	511
60	0	0	0	1.12	74.84	510	74.73	510
70	0	0	0	1.12	74.92	509	74.8	510
80	0	0	0	1.12	74.99	509	74.87	510
90	0	0	0	1.12	75.06	509	74.95	509
100	0	0	0	1.12	75.14	508	75.02	509
110	0	0	0	1.12	75.21	508	75.09	508
120	0	0	0	1.12	75.28	507	75.16	508
130	0	0	0	1.12	75.35	507	75.23	508
167	0	0	0	1.12	75.54	506	75.49	506
212	0	0	0	1.12	75.76	505	75.75	505

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>143 OF 198</p> </div>	Indicates Latest Revision	Completely Revised		New Page	Information Removed	<div style="text-align: center;"> <p>OH823.143</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING</p> <p>336.4 RTS TRIPLEX TENSION 1500 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-4	1-4	1-5	1-5	1-6	1-6	1-7	1-7	1-8	1-8
100.00	2-4	2-5	2-6	2-7	2-8	2-9	2-9	2-10	2-11	3-0
125.00	3-8	3-10	3-11	4-0	4-2	4-3	4-4	4-6	4-7	4-8
150.00	5-4	5-6	5-8	5-10	6-0	6-2	6-3	6-5	6-7	6-9
175.00	7-3	7-6	7-8	7-11	8-2	8-4	8-7	8-9	8-11	9-2
200.00	9-6	9-9	10-1	10-4	10-8	10-11	11-2	11-5	11-9	12-0

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	1-5	1-5	1-6	1-6	1-7	1-7	1-8	1-8	1-8	1-9
100.00	2-6	2-7	2-7	2-8	2-9	2-10	2-11	3-0	3-0	3-1
125.00	3-10	4-0	4-1	4-2	4-4	4-5	4-6	4-8	4-9	4-10
150.00	5-7	5-9	5-11	6-1	6-3	6-4	6-6	6-8	6-10	7-0
175.00	7-7	7-10	8-0	8-3	8-6	8-8	8-11	9-1	9-4	9-6
200.00	9-11	10-2	10-6	10-9	11-1	11-4	11-7	11-11	12-2	12-5

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<div style="text-align: center;"> <p>SHEET</p> <p>144 OF 198</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH823.144</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING</p> <p>336.4 RTS TRIPLEX TENSION 1500 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-8	2-8	2-9	2-9	2-9	2-9	2-9	2-10	2-10	2-10
125.00	4-2	4-2	4-3	4-3	4-3	4-4	4-4	4-4	4-5	4-5
150.00	6-0	6-1	6-1	6-2	6-2	6-3	6-3	6-4	6-4	6-5
175.00	8-2	8-3	8-4	8-4	8-5	8-6	8-6	8-7	8-8	8-8
200.00	10-9	10-10	10-10	10-11	11-0	11-1	11-2	11-3	11-4	11-4
225.00	13-7	13-8	13-9	13-10	13-11	14-1	14-2	14-3	14-4	14-5
250.00	16-9	16-11	17-0	17-2	17-3	17-4	17-6	17-7	17-8	17-10

Stringing Sag Table Using Final Sag							Ruling Span:	200.0	Feet	
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	2-8	2-9	2-9	2-9	2-9	2-9	2-10	2-10	2-10	2-10
125.00	4-3	4-3	4-3	4-4	4-4	4-4	4-5	4-5	4-5	4-6
150.00	6-1	6-1	6-2	6-2	6-3	6-3	6-4	6-4	6-5	6-5
175.00	8-3	8-4	8-5	8-5	8-6	8-7	8-7	8-8	8-9	8-9
200.00	10-10	10-11	11-0	11-1	11-1	11-2	11-3	11-4	11-5	11-6
225.00	13-9	13-10	13-11	14-0	14-1	14-2	14-3	14-4	14-6	14-7
250.00	17-0	17-1	17-2	17-4	17-5	17-6	17-8	17-9	17-10	18-0

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[illegible]

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-3	6-3	6-3	6-3	6-3	6-4	6-4	6-4	6-4	6-4
175.00	8-6	8-6	8-6	8-6	8-7	8-7	8-7	8-8	8-8	8-8
200.00	11-1	11-1	11-2	11-2	11-2	11-3	11-3	11-3	11-4	11-4
225.00	14-0	14-1	14-1	14-2	14-2	14-3	14-3	14-4	14-4	14-5
250.00	17-4	17-5	17-5	17-6	17-6	17-7	17-8	17-8	17-9	17-9
275.00	21-0	21-1	21-1	21-2	21-3	21-4	21-4	21-5	21-6	21-6
300.00	25-0	25-1	25-2	25-3	25-4	25-5	25-6	25-6	25-7	25-8
325.00	29-5	29-6	29-7	29-8	29-9	29-10	29-11	30-0	30-1	30-2
350.00	34-2	34-3	34-5	34-6	34-7	34-8	34-9	34-10	35-0	35-1
375.00	39-4	39-5	39-6	39-8	39-9	39-11	40-0	40-1	40-3	40-4

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	6-3	6-3	6-3	6-4	6-4	6-4	6-4	6-4	6-5	6-5
175.00	8-6	8-6	8-7	8-7	8-7	8-7	8-8	8-8	8-8	8-9
200.00	11-1	11-2	11-2	11-3	11-3	11-3	11-4	11-4	11-4	11-5
225.00	14-1	14-1	14-2	14-2	14-3	14-3	14-4	14-4	14-5	14-5
250.00	17-5	17-5	17-6	17-7	17-7	17-8	17-9	17-9	17-10	17-10
275.00	21-1	21-2	21-3	21-3	21-4	21-5	21-5	21-6	21-7	21-8
300.00	25-2	25-3	25-3	25-4	25-5	25-6	25-7	25-8	25-9	25-10
325.00	29-7	29-8	29-9	29-10	29-11	30-0	30-1	30-2	30-3	30-4
350.00	34-4	34-5	34-6	34-8	34-9	34-10	34-11	35-0	35-2	35-3
375.00	39-6	39-7	39-9	39-10	39-11	40-1	40-2	40-3	40-5	40-6

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div>SHEET</div> <div>146 OF 198</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH823.146
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING 336.4 RTS TRIPLEX TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-4	11-4	11-4	11-5	11-5	11-5	11-5	11-5	11-6	11-6
225.00	14-4	14-5	14-5	14-5	14-5	14-6	14-6	14-6	14-6	14-7
250.00	17-9	17-9	17-10	17-10	17-10	17-11	17-11	17-11	18-0	18-0
275.00	21-6	21-6	21-7	21-7	21-8	21-8	21-8	21-9	21-9	21-10
300.00	25-8	25-8	25-8	25-9	25-9	25-10	25-10	25-11	25-11	26-0
325.00	30-2	30-2	30-3	30-3	30-4	30-4	30-5	30-5	30-6	30-7
350.00	35-0	35-1	35-1	35-2	35-3	35-3	35-4	35-5	35-5	35-6
375.00	40-3	40-4	40-5	40-5	40-6	40-7	40-8	40-8	40-9	40-10
400.00	45-11	46-0	46-1	46-1	46-2	46-3	46-4	46-5	46-6	46-7
425.00	51-11	52-0	52-1	52-2	52-3	52-4	52-5	52-6	52-7	52-8
450.00	58-4	58-5	58-6	58-8	58-9	58-10	58-11	59-0	59-1	59-2
475.00	65-2	65-3	65-5	65-6	65-7	65-8	65-10	65-11	66-0	66-1
500.00	72-5	72-6	72-8	72-9	72-10	73-0	73-1	73-3	73-4	73-5

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	11-4	11-4	11-5	11-5	11-5	11-5	11-6	11-6	11-6	11-6
225.00	14-5	14-5	14-5	14-5	14-6	14-6	14-6	14-7	14-7	14-7
250.00	17-9	17-10	17-10	17-10	17-11	17-11	17-11	18-0	18-0	18-0
275.00	21-7	21-7	21-7	21-8	21-8	21-9	21-9	21-9	21-10	21-10
300.00	25-8	25-9	25-9	25-10	25-10	25-11	25-11	26-0	26-0	26-1
325.00	30-2	30-3	30-4	30-4	30-5	30-5	30-6	30-6	30-7	30-8
350.00	35-1	35-2	35-2	35-3	35-4	35-4	35-5	35-6	35-6	35-7
375.00	40-4	40-5	40-6	40-7	40-7	40-8	40-9	40-10	40-10	40-11
400.00	46-0	46-1	46-2	46-3	46-4	46-5	46-5	46-6	46-7	46-8
425.00	52-1	52-2	52-3	52-4	52-5	52-6	52-7	52-8	52-9	52-10
450.00	58-6	58-7	58-8	58-9	58-10	59-0	59-1	59-2	59-3	59-4
475.00	65-4	65-5	65-7	65-8	65-9	65-10	66-0	66-1	66-2	66-3
500.00	72-7	72-8	72-10	72-11	73-1	73-2	73-3	73-5	73-6	73-8

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C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 147 OF 198		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH823.147
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING 336.4 RTS TRIPLEX TENSION 1500 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>149 OF 198</div>		<div>Indicates Latest Revision</div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> <div>Information Removed</div>									OH823.149
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 85MPH HEAVY LOADING 336.4 RTS TRIPLEX TENSION 2000 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	18.5	0	3.295	33.92	1999	33.9	2000*
0	0	0	0	1.12	33.15	694	32.98	698
30	0	0	0	1.12	33.45	688	33.27	692
40	0	0	0	1.12	33.55	687	33.36	690
50	0	0	0	1.12	33.64	685	33.46	688
60	0	0	0	1.12	33.74	683	33.56	686
70	0	0	0	1.12	33.84	681	33.65	685
80	0	0	0	1.12	33.94	679	33.75	683
90	0	0	0	1.12	34.03	677	33.84	681
100	0	0	0	1.12	34.13	675	33.94	679
110	0	0	0	1.12	34.23	674	34.03	677
120	0	0	0	1.12	34.32	672	34.13	676
130	0	0	0	1.12	34.42	670	34.22	674
167	0	0	0	1.12	34.76	664	34.57	667
212	0	0	0	1.12	35.04	659	34.99	660
* Design Condition								

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B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 150 OF 198		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH823.150
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 300' & 400' RULING SPAN 85MPH HEAVY LOADING 336.4 RTS TRIPLEX TENSION 2000 LBS										

Span = 500 ft								
Design Condition					Final		Initial	
Cond.	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	in	Psf	lb/ft	lb/ft	ft	lb	ft	lb
20	0	18.5	0	3.295	53.9	1999	53.88	2000*
0	0	0	0	1.12	53.14	689	52.97	691
30	0	0	0	1.12	53.43	685	53.25	687
40	0	0	0	1.12	53.53	684	53.35	686
50	0	0	0	1.12	53.63	683	53.45	685
60	0	0	0	1.12	53.73	682	53.54	684
70	0	0	0	1.12	53.83	681	53.64	683
80	0	0	0	1.12	53.92	679	53.73	682
90	0	0	0	1.12	54.02	678	53.83	680
100	0	0	0	1.12	54.12	677	53.92	679
110	0	0	0	1.12	54.21	676	54.02	678
120	0	0	0	1.12	54.31	675	54.11	677
130	0	0	0	1.12	54.41	674	54.21	676
167	0	0	0	1.12	54.75	670	54.56	672
212	0	0	0	1.12	55.04	667	54.98	667
* Design Condition								

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div>SHEET</div> <div>151 OF 198</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH823.151
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	DESIGN TABLES: 500' RULING SPAN 85MPH HEAVY LOADING 336.4 RTS TRIPLEX TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-3
100.00	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2
125.00	2-2	2-4	2-6	2-7	2-9	2-11	3-0	3-2	3-3	3-5
150.00	3-2	3-4	3-7	3-9	3-11	4-2	4-4	4-6	4-9	4-11
175.00	4-3	4-7	4-10	5-1	5-5	5-8	5-11	6-2	6-5	6-8
200.00	5-7	5-11	6-4	6-8	7-0	7-5	7-9	8-1	8-5	8-9

Stringing Sag Table Using Final Sag								Ruling Span:	100.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-3	1-4
100.00	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4
125.00	2-5	2-7	2-9	2-11	3-0	3-2	3-4	3-5	3-7	3-8
150.00	3-6	3-9	3-11	4-2	4-4	4-7	4-9	4-11	5-1	5-4
175.00	4-9	5-1	5-4	5-8	5-11	6-2	6-6	6-9	7-0	7-3
200.00	6-3	6-7	7-0	7-5	7-9	8-1	8-5	8-9	9-1	9-5

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 152 OF 198		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH823.152
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 100' RULING SPAN 85MPH HEAVY LOADING 336.4 RTS TRIPLEX TENSION 2000 LBS										

Stringing Sag Table Using Initial Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-11	1-11	1-11	2-0	2-0	2-0	2-0	2-1	2-1	2-1
125.00	2-11	3-0	3-0	3-1	3-1	3-2	3-2	3-3	3-3	3-3
150.00	4-3	4-4	4-4	4-5	4-6	4-6	4-7	4-8	4-8	4-9
175.00	5-10	5-10	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-5
200.00	7-7	7-8	7-9	7-10	7-11	8-1	8-2	8-3	8-4	8-5
225.00	9-7	9-9	9-10	9-11	10-1	10-2	10-4	10-5	10-7	10-8
250.00	11-10	12-0	12-2	12-4	12-5	12-7	12-9	12-11	13-0	13-2

Stringing Sag Table Using Final Sag

Ruling Span: 200.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	1-11	2-0	2-0	2-0	2-0	2-1	2-1	2-1	2-2	2-2
125.00	3-0	3-1	3-1	3-2	3-2	3-3	3-3	3-3	3-4	3-4
150.00	4-4	4-5	4-6	4-6	4-7	4-8	4-8	4-9	4-9	4-10
175.00	5-11	6-0	6-1	6-2	6-3	6-4	6-5	6-5	6-6	6-7
200.00	7-9	7-10	7-11	8-1	8-2	8-3	8-4	8-5	8-6	8-7
225.00	9-10	9-11	10-1	10-2	10-4	10-5	10-7	10-8	10-10	10-11
250.00	12-1	12-3	12-5	12-7	12-9	12-11	13-0	13-2	13-4	13-6

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

SHEET 153 OF 198	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH823.153
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 200' RULING SPAN 85MPH HEAVY LOADING 336.4 RTS TRIPLEX TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-6	4-6	4-7	4-7	4-7	4-8	4-8	4-8	4-8	4-9
175.00	6-2	6-2	6-2	6-3	6-3	6-4	6-4	6-4	6-5	6-5
200.00	8-0	8-1	8-1	8-2	8-2	8-3	8-3	8-4	8-4	8-5
225.00	10-2	10-3	10-3	10-4	10-5	10-5	10-6	10-6	10-7	10-8
250.00	12-7	12-7	12-8	12-9	12-10	12-11	12-11	13-0	13-1	13-2
275.00	15-2	15-3	15-4	15-5	15-6	15-7	15-8	15-9	15-10	15-11
300.00	18-1	18-2	18-4	18-5	18-6	18-7	18-8	18-9	18-10	19-0
325.00	21-3	21-4	21-6	21-7	21-9	21-10	21-11	22-1	22-2	22-3
350.00	24-8	24-10	24-11	25-1	25-2	25-4	25-6	25-7	25-9	25-10
375.00	28-4	28-6	28-8	28-10	29-0	29-1	29-3	29-5	29-7	29-9

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	4-7	4-7	4-7	4-8	4-8	4-8	4-8	4-9	4-9	4-9
175.00	6-2	6-3	6-3	6-4	6-4	6-4	6-5	6-5	6-6	6-6
200.00	8-1	8-2	8-2	8-3	8-3	8-4	8-4	8-5	8-5	8-6
225.00	10-3	10-4	10-4	10-5	10-6	10-6	10-7	10-8	10-8	10-9
250.00	12-8	12-9	12-10	12-11	12-11	13-0	13-1	13-2	13-3	13-3
275.00	15-4	15-5	15-6	15-7	15-8	15-9	15-10	15-11	16-0	16-1
300.00	18-3	18-5	18-6	18-7	18-8	18-9	18-10	19-0	19-1	19-2
325.00	21-6	21-7	21-8	21-10	21-11	22-1	22-2	22-3	22-5	22-6
350.00	24-11	25-1	25-2	25-4	25-6	25-7	25-9	25-10	26-0	26-1
375.00	28-8	28-10	28-11	29-1	29-3	29-5	29-7	29-9	29-10	30-0

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 154 OF 198		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH823.154
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 85MPH HEAVY LOADING 336.4 RTS TRIPLEX TENSION 2000 LBS									

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	8-3	8-4	8-4	8-4	8-5	8-5	8-5	8-5	8-6	8-6
225.00	10-6	10-6	10-7	10-7	10-7	10-8	10-8	10-8	10-9	10-9
250.00	12-11	13-0	13-0	13-1	13-1	13-2	13-2	13-3	13-3	13-4
275.00	15-8	15-9	15-9	15-10	15-10	15-11	16-0	16-0	16-1	16-1
300.00	18-8	18-9	18-10	18-10	18-11	18-11	19-0	19-1	19-1	19-2
325.00	21-11	22-0	22-1	22-2	22-2	22-3	22-4	22-5	22-6	22-6
350.00	25-6	25-7	25-8	25-8	25-9	25-10	25-11	26-0	26-1	26-2
375.00	29-3	29-4	29-5	29-6	29-7	29-8	29-10	29-11	30-0	30-1
400.00	33-4	33-5	33-7	33-8	33-9	33-10	33-11	34-0	34-2	34-3
425.00	37-8	37-10	37-11	38-0	38-2	38-3	38-4	38-6	38-7	38-8
450.00	42-4	42-5	42-7	42-8	42-10	42-11	43-1	43-2	43-4	43-5
475.00	47-2	47-4	47-6	47-7	47-9	47-11	48-0	48-2	48-4	48-5
500.00	52-4	52-6	52-8	52-10	53-0	53-2	53-4	53-6	53-7	53-9

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 155 OF 198		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH823.155
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 85MPH HEAVY LOADING 336.4 RTS TRIPLEX TENSION 2000 LBS									

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	5.394	76.89	1000	76.88	1000*
20	0	0	0	1.12	76.7	208	76.67	208
30	0	0	0	1.12	76.73	208	76.7	208
40	0	0	0	1.12	76.76	208	76.73	208
50	0	0	0	1.12	76.79	208	76.76	208
60	0	0	0	1.12	76.82	208	76.79	208
70	0	0	0	1.12	76.85	208	76.82	208
80	0	0	0	1.12	76.88	208	76.85	208
90	0	0	0	1.12	76.9	208	76.87	208
100	0	0	0	1.12	76.92	208	76.9	208
110	0	0	0	1.12	76.94	208	76.93	208
120	0	0	0	1.12	76.96	208	76.95	208
130	0	0	0	1.12	76.97	208	76.97	208
167	0	0	0	1.12	77.05	207	77.04	207
212	0	0	0	1.12	77.13	207	77.13	207

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>158 OF 198</p> </div>	Indicates Latest Revision	Completely Revised	<div style="border: 1px solid black; padding: 2px;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH823.158</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 300' RULING SPAN 111MPH LIGHT LOADING</p> <p>336.4 RTS TRIPLEX TENSION 1000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	7-2	7-2	7-2	7-2	7-2	7-2	7-2	7-2	7-2	7-2
125.00	11-2	11-2	11-2	11-3	11-3	11-3	11-3	11-3	11-3	11-3
150.00	16-2	16-2	16-2	16-3	16-3	16-3	16-3	16-3	16-4	16-4
175.00	22-2	22-2	22-2	22-2	22-3	22-3	22-3	22-3	22-4	22-4
200.00	29-1	29-1	29-2	29-2	29-2	29-3	29-3	29-4	29-4	29-4
225.00	37-1	37-1	37-2	37-2	37-3	37-3	37-4	37-4	37-5	37-5
250.00	46-2	46-2	46-3	46-3	46-4	46-4	46-5	46-6	46-6	46-7

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	7-2	7-2	7-2	7-2	7-2	7-2	7-2	7-2	7-2	7-2
125.00	11-2	11-2	11-3	11-3	11-3	11-3	11-3	11-3	11-3	11-3
150.00	16-2	16-2	16-3	16-3	16-3	16-3	16-3	16-4	16-4	16-4
175.00	22-2	22-2	22-2	22-3	22-3	22-3	22-3	22-4	22-4	22-4
200.00	29-1	29-2	29-2	29-2	29-3	29-3	29-4	29-4	29-4	29-4
225.00	37-1	37-2	37-2	37-3	37-3	37-4	37-4	37-4	37-5	37-5
250.00	46-2	46-3	46-3	46-4	46-4	46-5	46-6	46-6	46-6	46-7

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C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 160 OF 198		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH823.160
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH LIGHT LOADING 336.4 RTS TRIPLEX TENSION 1000 LBS										

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	18-2	18-2	18-2	18-2	18-2	18-2	18-2	18-2	18-2	18-2
175.00	24-10	24-10	24-10	24-10	24-11	24-11	24-11	24-11	24-11	24-11
200.00	32-8	32-9	32-9	32-9	32-9	32-9	32-9	32-9	32-9	32-10
225.00	41-9	41-9	41-9	41-10	41-10	41-10	41-10	41-10	41-10	41-11
250.00	52-1	52-1	52-1	52-1	52-2	52-2	52-2	52-2	52-2	52-3
275.00	63-8	63-8	63-9	63-9	63-9	63-9	63-10	63-10	63-10	63-11
300.00	76-8	76-8	76-9	76-9	76-9	76-10	76-10	76-10	76-11	76-11
325.00	91-2	91-2	91-3	91-3	91-3	91-4	91-4	91-5	91-5	91-5
350.00	107-2	107-3	107-3	107-4	107-4	107-5	107-5	107-6	107-6	107-7
375.00	124-10	124-11	125-0	125-0	125-1	125-1	125-2	125-3	125-3	125-4

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	18-2	18-2	18-2	18-2	18-2	18-2	18-2	18-2	18-2	18-2
175.00	24-10	24-10	24-10	24-11	24-11	24-11	24-11	24-11	24-11	24-11
200.00	32-9	32-9	32-9	32-9	32-9	32-9	32-9	32-9	32-10	32-10
225.00	41-9	41-9	41-10	41-10	41-10	41-10	41-10	41-10	41-11	41-11
250.00	52-1	52-1	52-1	52-2	52-2	52-2	52-2	52-2	52-3	52-3
275.00	63-8	63-9	63-9	63-9	63-9	63-10	63-10	63-10	63-10	63-11
300.00	76-8	76-9	76-9	76-9	76-10	76-10	76-11	76-11	76-11	76-11
325.00	91-2	91-3	91-3	91-3	91-4	91-4	91-5	91-5	91-5	91-6
350.00	107-3	107-3	107-4	107-4	107-5	107-5	107-6	107-6	107-6	107-7
375.00	124-11	125-0	125-0	125-1	125-1	125-2	125-3	125-3	125-4	125-4

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>161 OF 198</h2> </div>		<div> Indicates Latest Revision </div> <div> <div>Completely Revised</div> <div>X</div> <div>New Page</div> </div> <div>Information Removed</div>									OH823.161
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING 336.4 RTS TRIPLEX TENSION 1000 LBS									

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE	
C						F						
B						E						
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D						
SHEET 162 OF 198		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed			OH823.162
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS										
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH LIGHT LOADING 336.4 RTS TRIPLEX TENSION 1500 LBS										

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	5.394	158.51	1500	158.51	1500*
20	0	0	0	1.12	158.17	312	158.12	312
30	0	0	0	1.12	158.21	312	158.16	312
40	0	0	0	1.12	158.25	312	158.2	312
50	0	0	0	1.12	158.29	312	158.25	312
60	0	0	0	1.12	158.34	312	158.29	312
70	0	0	0	1.12	158.38	312	158.33	312
80	0	0	0	1.12	158.42	312	158.37	312
90	0	0	0	1.12	158.46	312	158.41	312
100	0	0	0	1.12	158.51	311	158.45	312
110	0	0	0	1.12	158.54	311	158.49	311
120	0	0	0	1.12	158.56	311	158.54	311
130	0	0	0	1.12	158.59	311	158.58	311
167	0	0	0	1.12	158.7	311	158.69	311
212	0	0	0	1.12	158.82	311	158.81	311

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>164 OF 198</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH823.164</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING</p> <p>336.4 RTS TRIPLEX TENSION 1500 LBS</p> </div>						

Completely Revised

New Page

OH823.164

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	20-4	20-4	20-4	20-4	20-5	20-5	20-5	20-5	20-5	20-5
225.00	25-10	25-10	25-10	25-10	25-11	25-11	25-11	25-11	25-11	25-11
250.00	32-0	32-0	32-1	32-1	32-1	32-1	32-1	32-2	32-2	32-2
275.00	38-11	38-11	38-11	39-0	39-0	39-0	39-0	39-1	39-1	39-1
300.00	46-6	46-7	46-7	46-7	46-8	46-8	46-8	46-8	46-9	46-9
325.00	54-11	54-11	55-0	55-0	55-0	55-1	55-1	55-1	55-1	55-2
350.00	64-0	64-1	64-1	64-2	64-2	64-2	64-3	64-3	64-4	64-4
375.00	73-11	74-0	74-0	74-1	74-1	74-2	74-2	74-3	74-3	74-4
400.00	84-8	84-9	84-9	84-10	84-10	84-11	84-11	85-0	85-0	85-1
425.00	96-3	96-4	96-4	96-5	96-6	96-6	96-7	96-7	96-8	96-9
450.00	108-8	108-9	108-10	108-11	108-11	109-0	109-1	109-1	109-2	109-3
475.00	122-1	122-1	122-2	122-3	122-4	122-5	122-5	122-6	122-7	122-8
500.00	136-4	136-5	136-6	136-7	136-8	136-8	136-9	136-10	136-11	137-0

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	20-4	20-4	20-4	20-5	20-5	20-5	20-5	20-5	20-5	20-5
225.00	25-10	25-10	25-11	25-11	25-11	25-11	25-11	25-11	25-11	26-0
250.00	32-1	32-1	32-1	32-1	32-1	32-1	32-2	32-2	32-2	32-2
275.00	38-11	39-0	39-0	39-0	39-0	39-0	39-1	39-1	39-1	39-1
300.00	46-7	46-7	46-7	46-8	46-8	46-8	46-8	46-9	46-9	46-9
325.00	54-11	55-0	55-0	55-0	55-1	55-1	55-1	55-2	55-2	55-2
350.00	64-1	64-1	64-2	64-2	64-2	64-3	64-3	64-4	64-4	64-4
375.00	74-0	74-0	74-1	74-1	74-2	74-2	74-3	74-3	74-4	74-4
400.00	84-9	84-9	84-10	84-10	84-11	85-0	85-0	85-1	85-1	85-1
425.00	96-4	96-4	96-5	96-6	96-6	96-7	96-7	96-8	96-9	96-9
450.00	108-9	108-10	108-11	108-11	109-0	109-1	109-1	109-2	109-3	109-3
475.00	122-1	122-2	122-3	122-4	122-5	122-5	122-6	122-7	122-8	122-8
500.00	136-5	136-6	136-7	136-8	136-9	136-9	136-10	136-11	137-0	137-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>168 OF 198</h2> </div>		Indicates Latest Revision		Completely Revised		X	New Page		Information Removed		OH823.168
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING 336.4 RTS TRIPLEX TENSION 1500 LBS									

Stringing Sag Table Using Initial Sag								Ruling Span:	500.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
250.00	36-6	36-6	36-6	36-6	36-6	36-7	36-7	36-7	36-7	36-7
275.00	44-5	44-5	44-5	44-5	44-5	44-6	44-6	44-6	44-6	44-6
300.00	53-2	53-2	53-2	53-3	53-3	53-3	53-3	53-3	53-3	53-4
325.00	62-10	62-10	62-10	62-11	62-11	62-11	62-11	62-11	62-11	63-0
350.00	73-5	73-5	73-5	73-5	73-6	73-6	73-6	73-6	73-6	73-7
375.00	84-11	84-11	84-11	85-0	85-0	85-0	85-0	85-1	85-1	85-1
400.00	97-5	97-5	97-6	97-6	97-6	97-6	97-7	97-7	97-7	97-8
425.00	110-11	111-0	111-0	111-0	111-1	111-1	111-1	111-2	111-2	111-2
450.00	125-6	125-7	125-7	125-8	125-8	125-8	125-9	125-9	125-9	125-10
475.00	141-3	141-3	141-4	141-4	141-5	141-5	141-6	141-6	141-6	141-7
500.00	158-1	158-2	158-2	158-3	158-3	158-4	158-4	158-5	158-5	158-6
525.00	176-3	176-3	176-4	176-4	176-5	176-5	176-6	176-7	176-7	176-8
550.00	195-7	195-8	195-9	195-9	195-10	195-10	195-11	196-0	196-0	196-1
575.00	216-4	216-5	216-5	216-6	216-7	216-8	216-8	216-9	216-10	216-10
600.00	238-6	238-6	238-7	238-8	238-9	238-10	238-10	238-11	239-0	239-1
625.00	262-1	262-2	262-3	262-4	262-5	262-5	262-6	262-7	262-8	262-9

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[illegible]

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	5.394	58.6	2000	58.6	2000*
20	0	0	0	1.12	58.01	419	57.9	419
30	0	0	0	1.12	58.07	419	57.96	419
40	0	0	0	1.12	58.13	418	58.02	419
50	0	0	0	1.12	58.19	418	58.08	418
60	0	0	0	1.12	58.25	417	58.14	418
70	0	0	0	1.12	58.3	417	58.2	418
80	0	0	0	1.12	58.36	417	58.26	417
90	0	0	0	1.12	58.42	416	58.31	417
100	0	0	0	1.12	58.48	416	58.37	417
110	0	0	0	1.12	58.54	416	58.43	416
120	0	0	0	1.12	58.58	415	58.49	416
130	0	0	0	1.12	58.62	415	58.55	416
167	0	0	0	1.12	58.77	414	58.75	414
212	0	0	0	1.12	58.94	413	58.93	413

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 171 OF 198		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH823.171
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH LIGHT LOADING 336.4 RTS TRIPLEX TENSION 2000 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
50	0	31.5	0	5.394	97.14	2000	97.14	2000*
20	0	0	0	1.12	96.55	417	96.45	417
30	0	0	0	1.12	96.61	417	96.51	417
40	0	0	0	1.12	96.67	417	96.57	417
50	0	0	0	1.12	96.73	417	96.63	417
60	0	0	0	1.12	96.79	416	96.68	417
70	0	0	0	1.12	96.85	416	96.74	417
80	0	0	0	1.12	96.91	416	96.8	416
90	0	0	0	1.12	96.97	416	96.86	416
100	0	0	0	1.12	97.02	416	96.92	416
110	0	0	0	1.12	97.08	415	96.97	416
120	0	0	0	1.12	97.12	415	97.03	416
130	0	0	0	1.12	97.16	415	97.09	415
167	0	0	0	1.12	97.31	415	97.29	415
212	0	0	0	1.12	97.48	414	97.47	414

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>172 OF 198</p> </div>	Indicates Latest Revision	Completely Revised	<div style="border: 1px solid black; padding: 2px; display: inline-block;">X</div>	New Page	Information Removed	<div style="text-align: center;"> <p>OH823.172</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH LIGHT LOADING</p> <p>336.4 RTS TRIPLEX TENSION 2000 LBS</p> </div>					

Stringing Sag Table Using Initial Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	7-8	7-8	7-8	7-9	7-9	7-9	7-9	7-9	7-9	7-10
175.00	10-5	10-6	10-6	10-6	10-6	10-7	10-7	10-7	10-7	10-8
200.00	13-8	13-8	13-9	13-9	13-9	13-10	13-10	13-10	13-11	13-11
225.00	17-4	17-4	17-5	17-5	17-6	17-6	17-6	17-7	17-7	17-8
250.00	21-5	21-6	21-6	21-7	21-7	21-8	21-8	21-9	21-9	21-10
275.00	26-0	26-0	26-1	26-2	26-2	26-3	26-3	26-4	26-5	26-5
300.00	31-0	31-1	31-1	31-2	31-3	31-4	31-4	31-5	31-6	31-6
325.00	36-6	36-6	36-7	36-8	36-9	36-10	36-11	37-0	37-0	37-1
350.00	42-5	42-6	42-7	42-8	42-9	42-10	42-11	43-0	43-1	43-2
375.00	48-10	48-11	49-0	49-1	49-2	49-3	49-5	49-6	49-7	49-8

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	7-8	7-9	7-9	7-9	7-9	7-9	7-9	7-10	7-10	7-10
175.00	10-6	10-6	10-6	10-7	10-7	10-7	10-7	10-8	10-8	10-8
200.00	13-9	13-9	13-9	13-10	13-10	13-10	13-10	13-11	13-11	13-11
225.00	17-5	17-5	17-5	17-6	17-6	17-7	17-7	17-7	17-8	17-8
250.00	21-6	21-7	21-7	21-8	21-8	21-9	21-9	21-10	21-10	21-11
275.00	26-1	26-2	26-2	26-3	26-3	26-4	26-5	26-5	26-6	26-6
300.00	31-1	31-2	31-3	31-3	31-4	31-5	31-6	31-6	31-7	31-8
325.00	36-7	36-8	36-9	36-10	36-11	36-11	37-0	37-1	37-2	37-3
350.00	42-7	42-8	42-9	42-10	42-11	43-0	43-1	43-2	43-3	43-4
375.00	49-0	49-1	49-2	49-3	49-4	49-6	49-7	49-8	49-9	49-10

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>175 OF 198</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH823.175</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>STRINGING SAG TABLES: 300' RULING SPAN 111MPH LIGHT LOADING</p> <p>336.4 RTS TRIPLEX TENSION 2000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	14-2	14-2	14-3	14-3	14-3	14-3	14-3	14-3	14-4	14-4
225.00	18-0	18-0	18-0	18-1	18-1	18-1	18-1	18-1	18-2	18-2
250.00	22-3	22-3	22-4	22-4	22-4	22-4	22-5	22-5	22-5	22-5
275.00	27-0	27-0	27-1	27-1	27-1	27-1	27-2	27-2	27-2	27-3
300.00	32-2	32-3	32-3	32-4	32-4	32-4	32-5	32-5	32-5	32-6
325.00	37-11	37-11	38-0	38-0	38-0	38-1	38-1	38-2	38-2	38-3
350.00	44-1	44-1	44-2	44-2	44-3	44-3	44-4	44-4	44-5	44-5
375.00	50-9	50-9	50-10	50-11	50-11	51-0	51-0	51-1	51-2	51-2
400.00	57-11	58-0	58-0	58-1	58-2	58-2	58-3	58-4	58-4	58-5
425.00	65-7	65-8	65-9	65-9	65-10	65-11	66-0	66-1	66-2	66-2
450.00	73-10	73-11	73-11	74-0	74-1	74-2	74-3	74-4	74-5	74-6
475.00	82-6	82-8	82-9	82-10	82-11	83-0	83-1	83-2	83-3	83-4
500.00	91-10	91-11	92-0	92-1	92-2	92-4	92-5	92-6	92-7	92-8

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	14-3	14-3	14-3	14-3	14-3	14-3	14-4	14-4	14-4	14-4
225.00	18-0	18-1	18-1	18-1	18-1	18-1	18-2	18-2	18-2	18-2
250.00	22-4	22-4	22-4	22-4	22-5	22-5	22-5	22-5	22-6	22-6
275.00	27-0	27-1	27-1	27-1	27-2	27-2	27-2	27-3	27-3	27-3
300.00	32-3	32-3	32-4	32-4	32-5	32-5	32-5	32-6	32-6	32-7
325.00	37-11	38-0	38-0	38-1	38-1	38-2	38-2	38-3	38-3	38-4
350.00	44-2	44-2	44-3	44-3	44-4	44-4	44-5	44-5	44-6	44-6
375.00	50-10	50-10	50-11	51-0	51-0	51-1	51-2	51-2	51-3	51-3
400.00	58-0	58-1	58-2	58-2	58-3	58-4	58-4	58-5	58-6	58-7
425.00	65-8	65-9	65-10	65-11	66-0	66-1	66-1	66-2	66-3	66-4
450.00	73-11	74-0	74-1	74-2	74-3	74-4	74-5	74-6	74-7	74-7
475.00	82-8	82-9	82-10	82-11	83-0	83-1	83-3	83-4	83-5	83-6
500.00	92-0	92-1	92-2	92-3	92-5	92-6	92-7	92-8	92-9	92-10

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div>SHEET</div> <div>176 OF 198</div>		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH823.176
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 400' RULING SPAN 111MPH LIGHT LOADING 336.4 RTS TRIPLEX TENSION 2000 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	5.394	29.31	1000	29.3	1000*
0	0	0	0	1.12	29.14	209	29.1	209
30	0	0	0	1.12	29.23	208	29.2	208
40	0	0	0	1.12	29.26	208	29.23	208
50	0	0	0	1.12	29.29	208	29.26	208
60	0	0	0	1.12	29.32	208	29.29	208
70	0	0	0	1.12	29.35	207	29.32	208
80	0	0	0	1.12	29.38	207	29.35	207
90	0	0	0	1.12	29.4	207	29.38	207
100	0	0	0	1.12	29.42	207	29.41	207
110	0	0	0	1.12	29.44	207	29.44	207
120	0	0	0	1.12	29.46	207	29.46	207
130	0	0	0	1.12	29.48	207	29.48	207
167	0	0	0	1.12	29.55	206	29.55	206
212	0	0	0	1.12	29.64	206	29.64	206

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
C						F							
B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D							
SHEET 178 OF 198		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH823.178
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING 336.4 RTS TRIPLEX TENSION 1000 LBS											

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	5.394	76.89	1000	76.88	1000*
0	0	0	0	1.12	76.73	208	76.69	208
30	0	0	0	1.12	76.82	208	76.79	208
40	0	0	0	1.12	76.84	208	76.82	208
50	0	0	0	1.12	76.87	208	76.85	208
60	0	0	0	1.12	76.9	208	76.87	208
70	0	0	0	1.12	76.93	208	76.9	208
80	0	0	0	1.12	76.96	208	76.93	208
90	0	0	0	1.12	76.98	207	76.96	208
100	0	0	0	1.12	77	207	76.99	207
110	0	0	0	1.12	77.02	207	77.01	207
120	0	0	0	1.12	77.04	207	77.03	207
130	0	0	0	1.12	77.06	207	77.05	207
167	0	0	0	1.12	77.13	207	77.12	207
212	0	0	0	1.12	77.22	207	77.21	207

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>179 OF 198</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH823.179</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 300' RULING SPAN 111MPH HEAVY LOADING</p> <p>336.4 RTS TRIPLEX TENSION 1000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	7-2	7-2	7-2	7-2	7-2	7-2	7-2	7-2	7-2	7-3
125.00	11-3	11-3	11-3	11-3	11-3	11-3	11-3	11-3	11-4	11-4
150.00	16-3	16-3	16-3	16-3	16-3	16-4	16-4	16-4	16-4	16-4
175.00	22-2	22-3	22-3	22-3	22-3	22-4	22-4	22-4	22-4	22-5
200.00	29-2	29-2	29-3	29-3	29-4	29-4	29-4	29-5	29-5	29-5
225.00	37-2	37-3	37-3	37-4	37-4	37-5	37-5	37-5	37-6	37-6
250.00	46-3	46-4	46-4	46-5	46-6	46-6	46-7	46-7	46-8	46-8

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	7-2	7-2	7-2	7-2	7-2	7-2	7-2	7-2	7-2	7-3
125.00	11-3	11-3	11-3	11-3	11-3	11-3	11-3	11-4	11-4	11-4
150.00	16-3	16-3	16-3	16-3	16-4	16-4	16-4	16-4	16-4	16-4
175.00	22-3	22-3	22-3	22-3	22-4	22-4	22-4	22-4	22-5	22-5
200.00	29-2	29-3	29-3	29-4	29-4	29-4	29-5	29-5	29-5	29-5
225.00	37-3	37-3	37-4	37-4	37-5	37-5	37-5	37-6	37-6	37-6
250.00	46-4	46-4	46-5	46-6	46-6	46-7	46-7	46-8	46-8	46-9

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 181 OF 198		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH823.181
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING 336.4 RTS TRIPLEX TENSION 1000 LBS									

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	5.394	18.6	1500	18.6	1500*
0	0	0	0	1.12	18.28	317	18.22	318
30	0	0	0	1.12	18.41	314	18.36	315
40	0	0	0	1.12	18.46	314	18.4	315
50	0	0	0	1.12	18.5	313	18.45	314
60	0	0	0	1.12	18.55	312	18.49	313
70	0	0	0	1.12	18.59	312	18.54	313
80	0	0	0	1.12	18.64	311	18.58	312
90	0	0	0	1.12	18.68	310	18.62	311
100	0	0	0	1.12	18.72	310	18.67	310
110	0	0	0	1.12	18.75	309	18.71	310
120	0	0	0	1.12	18.78	309	18.76	309
130	0	0	0	1.12	18.81	308	18.8	308
167	0	0	0	1.12	18.92	307	18.91	307
212	0	0	0	1.12	19.05	305	19.04	305

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
<div style="text-align: center;"> <h1>SHEET</h1> <h2>183 OF 198</h2> </div>		Indicates Latest Revision		Completely Revised		X New Page		Information Removed		OH823.183	
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING 336.4 RTS TRIPLEX TENSION 1500 LBS									

Span = 300 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	5.394	43.95	1500	43.95	1500*
0	0	0	0	1.12	43.63	313	43.57	314
30	0	0	0	1.12	43.76	313	43.71	313
40	0	0	0	1.12	43.81	312	43.75	313
50	0	0	0	1.12	43.85	312	43.79	312
60	0	0	0	1.12	43.9	312	43.84	312
70	0	0	0	1.12	43.94	312	43.88	312
80	0	0	0	1.12	43.99	311	43.93	312
90	0	0	0	1.12	44.03	311	43.97	311
100	0	0	0	1.12	44.07	311	44.01	311
110	0	0	0	1.12	44.1	311	44.06	311
120	0	0	0	1.12	44.13	310	44.1	311
130	0	0	0	1.12	44.16	310	44.15	310
167	0	0	0	1.12	44.27	310	44.26	310
212	0	0	0	1.12	44.4	309	44.39	309

* Design Condition

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	5.394	85.1	1500	85.1	1500*
0	0	0	0	1.12	84.78	312	84.72	312
30	0	0	0	1.12	84.91	312	84.86	312
40	0	0	0	1.12	84.96	312	84.9	312
50	0	0	0	1.12	85	312	84.95	312
60	0	0	0	1.12	85.05	312	84.99	312
70	0	0	0	1.12	85.09	311	85.03	312
80	0	0	0	1.12	85.13	311	85.08	312
90	0	0	0	1.12	85.18	311	85.12	311
100	0	0	0	1.12	85.22	311	85.16	311
110	0	0	0	1.12	85.25	311	85.21	311
120	0	0	0	1.12	85.27	311	85.25	311
130	0	0	0	1.12	85.3	311	85.29	311
167	0	0	0	1.12	85.41	311	85.41	311
212	0	0	0	1.12	85.54	310	85.54	310
* Design Condition								

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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 184 OF 198		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH823.184
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING 336.4 RTS TRIPLEX TENSION 1500 LBS									

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	5.394	158.51	1500	158.51	1500*
0	0	0	0	1.12	158.21	312	158.15	312
30	0	0	0	1.12	158.34	312	158.28	312
40	0	0	0	1.12	158.38	312	158.33	312
50	0	0	0	1.12	158.42	312	158.37	312
60	0	0	0	1.12	158.46	312	158.41	312
70	0	0	0	1.12	158.51	311	158.45	312
80	0	0	0	1.12	158.55	311	158.49	311
90	0	0	0	1.12	158.59	311	158.53	311
100	0	0	0	1.12	158.63	311	158.57	311
110	0	0	0	1.12	158.65	311	158.62	311
120	0	0	0	1.12	158.68	311	158.66	311
130	0	0	0	1.12	158.71	311	158.7	311
167	0	0	0	1.12	158.81	311	158.81	311
212	0	0	0	1.12	158.94	311	158.94	311

* Design Condition

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>185 OF 198</p> </div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH823.185</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING</p> <p>336.4 RTS TRIPLEX TENSION 1500 LBS</p> </div>					

Completely Revised



Information Removed

DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING
336.4 RTS TRIPLEX TENSION 1500 LBS

OH823.185

Stringing Sag Table Using Initial Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-5	2-5	2-5	2-5	2-6	2-6	2-6	2-7	2-7	2-7
100.00	4-3	4-3	4-4	4-5	4-5	4-6	4-6	4-7	4-7	4-8
125.00	6-8	6-8	6-9	6-10	6-11	7-0	7-1	7-1	7-2	7-3
150.00	9-7	9-8	9-9	9-11	10-0	10-1	10-2	10-3	10-5	10-6
175.00	13-1	13-2	13-4	13-6	13-7	13-9	13-11	14-0	14-2	14-3
200.00	17-1	17-3	17-5	17-8	17-10	18-0	18-2	18-4	18-6	18-9

Stringing Sag Table Using Final Sag

Ruling Span: 100.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
75.00	2-5	2-5	2-6	2-6	2-6	2-6	2-7	2-7	2-7	2-8
100.00	4-4	4-4	4-5	4-5	4-6	4-6	4-7	4-7	4-8	4-8
125.00	6-9	6-10	6-10	6-11	7-0	7-1	7-2	7-3	7-3	7-4
150.00	9-8	9-10	9-11	10-0	10-1	10-3	10-4	10-5	10-6	10-7
175.00	13-3	13-4	13-6	13-8	13-9	13-11	14-1	14-2	14-4	14-5
200.00	17-4	17-6	17-8	17-10	18-1	18-3	18-5	18-7	18-9	18-10

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SHEET 186 OF 198	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH823.186
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 100' RULING SPAN 111MPH HEAVY LOADING 336.4 RTS TRIPLEX TENSION 1500 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	4-6	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-8	4-8
125.00	7-1	7-1	7-2	7-2	7-2	7-2	7-2	7-3	7-3	7-3
150.00	10-3	10-3	10-4	10-4	10-4	10-5	10-5	10-5	10-5	10-6
175.00	14-0	14-0	14-1	14-1	14-1	14-2	14-2	14-3	14-3	14-3
200.00	18-4	18-4	18-5	18-5	18-6	18-6	18-7	18-7	18-8	18-9
225.00	23-3	23-4	23-4	23-5	23-6	23-6	23-7	23-8	23-8	23-9
250.00	28-10	28-10	28-11	29-0	29-1	29-2	29-3	29-3	29-4	29-5

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-8	4-8	4-8
125.00	7-2	7-2	7-2	7-2	7-2	7-3	7-3	7-3	7-3	7-3
150.00	10-3	10-4	10-4	10-4	10-5	10-5	10-5	10-5	10-6	10-6
175.00	14-0	14-1	14-1	14-2	14-2	14-2	14-3	14-3	14-4	14-4
200.00	18-4	18-5	18-6	18-6	18-7	18-7	18-8	18-8	18-9	18-9
225.00	23-4	23-4	23-5	23-6	23-7	23-7	23-8	23-9	23-9	23-10
250.00	28-11	28-11	29-0	29-1	29-2	29-3	29-4	29-5	29-5	29-6

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Stringing Sag Table Using Initial Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	20-4	20-5	20-5	20-5	20-5	20-5	20-5	20-5	20-5	20-5
225.00	25-10	25-11	25-11	25-11	25-11	25-11	25-11	26-0	26-0	26-0
250.00	32-1	32-1	32-1	32-1	32-2	32-2	32-2	32-2	32-2	32-2
275.00	39-0	39-0	39-0	39-0	39-1	39-1	39-1	39-1	39-2	39-2
300.00	46-7	46-8	46-8	46-8	46-8	46-9	46-9	46-9	46-9	46-10
325.00	55-0	55-0	55-0	55-1	55-1	55-1	55-2	55-2	55-2	55-3
350.00	64-2	64-2	64-2	64-3	64-3	64-3	64-4	64-4	64-5	64-5
375.00	74-1	74-1	74-2	74-2	74-3	74-3	74-3	74-4	74-4	74-5
400.00	84-10	84-10	84-11	84-11	85-0	85-0	85-1	85-1	85-2	85-2
425.00	96-5	96-6	96-6	96-7	96-7	96-8	96-9	96-9	96-10	96-10
450.00	108-10	108-11	109-0	109-1	109-1	109-2	109-3	109-3	109-4	109-5
475.00	122-3	122-4	122-4	122-5	122-6	122-7	122-8	122-8	122-9	122-10
500.00	136-7	136-7	136-8	136-9	136-10	136-11	137-0	137-1	137-2	137-2

Stringing Sag Table Using Final Sag

Ruling Span: 400.0 Feet

Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	20-5	20-5	20-5	20-5	20-5	20-5	20-5	20-5	20-6	20-6
225.00	25-11	25-11	25-11	25-11	25-11	25-11	26-0	26-0	26-0	26-0
250.00	32-1	32-1	32-1	32-2	32-2	32-2	32-2	32-2	32-3	32-3
275.00	39-0	39-0	39-0	39-1	39-1	39-1	39-1	39-2	39-2	39-2
300.00	46-8	46-8	46-8	46-8	46-9	46-9	46-9	46-10	46-10	46-10
325.00	55-0	55-1	55-1	55-1	55-2	55-2	55-2	55-3	55-3	55-3
350.00	64-2	64-2	64-3	64-3	64-4	64-4	64-4	64-5	64-5	64-5
375.00	74-1	74-2	74-2	74-3	74-3	74-4	74-4	74-5	74-5	74-5
400.00	84-10	84-11	85-0	85-0	85-1	85-1	85-2	85-2	85-3	85-3
425.00	96-6	96-6	96-7	96-7	96-8	96-9	96-9	96-10	96-10	96-11
450.00	108-11	109-0	109-1	109-1	109-2	109-3	109-4	109-4	109-5	109-5
475.00	122-4	122-5	122-5	122-6	122-7	122-8	122-9	122-9	122-10	122-11
500.00	136-8	136-9	136-9	136-10	136-11	137-0	137-1	137-2	137-3	137-3

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SHEET 189 OF 198	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH823.189
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 400' RULING SPAN 111MPH HEAVY LOADING 336.4 RTS TRIPLEX TENSION 1500 LBS					

Span = 200 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	5.394	13.74	2000	13.74	2000*
0	0	0	0	1.12	13.2	432	13.09	435
30	0	0	0	1.12	13.38	426	13.27	430
40	0	0	0	1.12	13.44	424	13.33	428
50	0	0	0	1.12	13.5	422	13.39	426
60	0	0	0	1.12	13.56	420	13.45	424
70	0	0	0	1.12	13.62	419	13.51	422
80	0	0	0	1.12	13.68	417	13.57	420
90	0	0	0	1.12	13.74	415	13.62	419
100	0	0	0	1.12	13.8	413	13.68	417
110	0	0	0	1.12	13.85	412	13.74	415
120	0	0	0	1.12	13.89	411	13.8	414
130	0	0	0	1.12	13.92	410	13.86	412
167	0	0	0	1.12	14.07	406	14.05	406
212	0	0	0	1.12	14.24	401	14.23	402

* Design Condition

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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 191 OF 198		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH823.191
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		DESIGN TABLES: 100' & 200' RULING SPAN 111MPH HEAVY LOADING 336.4 RTS TRIPLEX TENSION 2000 LBS									

Span = 400 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	5.394	58.6	2000	58.6	2000*
0	0	0	0	1.12	58.07	419	57.96	419
30	0	0	0	1.12	58.25	417	58.13	418
40	0	0	0	1.12	58.3	417	58.19	418
50	0	0	0	1.12	58.36	417	58.25	417
60	0	0	0	1.12	58.42	416	58.31	417
70	0	0	0	1.12	58.48	416	58.37	417
80	0	0	0	1.12	58.54	416	58.43	416
90	0	0	0	1.12	58.6	415	58.48	416
100	0	0	0	1.12	58.66	415	58.54	416
110	0	0	0	1.12	58.71	415	58.6	415
120	0	0	0	1.12	58.75	414	58.66	415
130	0	0	0	1.12	58.79	414	58.72	415
167	0	0	0	1.12	58.93	413	58.92	413
212	0	0	0	1.12	59.11	412	59.1	412

* Design Condition

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE		
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B						E							
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D							
SHEET 192 OF 198		Indicates Latest Revision			Completely Revised		X	New Page			Information Removed		OH823.192
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS											
		DESIGN TABLES: 300' & 400' RULING SPAN 111MPH HEAVY LOADING 336.4 RTS TRIPLEX TENSION 2000 LBS											

Span = 500 ft								
Design Condition					Final		Initial	
Cond. °F	Ice in	Wind Psf	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
20	0	31.5	0	5.394	97.14	2000	97.14	2000*
0	0	0	0	1.12	96.61	417	96.5	417
30	0	0	0	1.12	96.79	416	96.68	417
40	0	0	0	1.12	96.85	416	96.74	417
50	0	0	0	1.12	96.91	416	96.79	416
60	0	0	0	1.12	96.97	416	96.85	416
70	0	0	0	1.12	97.02	416	96.91	416
80	0	0	0	1.12	97.08	415	96.97	416
90	0	0	0	1.12	97.14	415	97.03	416
100	0	0	0	1.12	97.2	415	97.08	415
110	0	0	0	1.12	97.25	415	97.14	415
120	0	0	0	1.12	97.29	415	97.2	415
130	0	0	0	1.12	97.33	415	97.26	415
167	0	0	0	1.12	97.47	414	97.46	414
212	0	0	0	1.12	97.65	414	97.63	414

* Design Condition

* Design Condition

REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
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B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div style="text-align: center;"> <p>SHEET</p> <p>193 OF 198</p> </div>	Indicates Latest Revision		Completely Revised	X	New Page	Information Removed	<div style="text-align: center;"> <p>OH823.193</p> </div>
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS						
	<div style="text-align: center;"> <p>DESIGN TABLES: 500' RULING SPAN 111MPH HEAVY LOADING</p> <p>336.4 RTS TRIPLEX TENSION 2000 LBS</p> </div>						

Stringing Sag Table Using Initial Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-3	3-4	3-4	3-4	3-4	3-4	3-5	3-5	3-5	3-5
125.00	5-2	5-2	5-2	5-3	5-3	5-3	5-3	5-4	5-4	5-4
150.00	7-5	7-5	7-6	7-6	7-7	7-7	7-7	7-8	7-8	7-9
175.00	10-1	10-2	10-2	10-3	10-3	10-4	10-4	10-5	10-6	10-6
200.00	13-2	13-3	13-4	13-5	13-5	13-6	13-7	13-7	13-8	13-9
225.00	16-9	16-10	16-11	17-0	17-1	17-1	17-2	17-3	17-4	17-5
250.00	20-8	20-10	20-11	21-0	21-1	21-2	21-3	21-4	21-5	21-7

Stringing Sag Table Using Final Sag								Ruling Span:	200.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
100.00	3-4	3-4	3-4	3-4	3-5	3-5	3-5	3-5	3-5	3-5
125.00	5-2	5-2	5-3	5-3	5-3	5-4	5-4	5-4	5-4	5-5
150.00	7-6	7-6	7-6	7-7	7-7	7-8	7-8	7-9	7-9	7-9
175.00	10-2	10-3	10-3	10-4	10-4	10-5	10-6	10-6	10-7	10-7
200.00	13-4	13-5	13-5	13-6	13-7	13-7	13-8	13-9	13-10	13-10
225.00	16-11	17-0	17-0	17-1	17-2	17-3	17-4	17-5	17-6	17-7
250.00	20-11	21-0	21-1	21-2	21-3	21-4	21-5	21-7	21-8	21-9

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C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					
SHEET 195 OF 198		Indicates Latest Revision			Completely Revised	X	New Page		Information Removed		OH823.195
		SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS									
		STRINGING SAG TABLES: 200' RULING SPAN 111MPH HEAVY LOADING 336.4 RTS TRIPLEX TENSION 2000 LBS									

Stringing Sag Table Using Initial Sag							Ruling Span: 300.0 Feet			
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	7-9	7-9	7-9	7-9	7-9	7-9	7-10	7-10	7-10	7-10
175.00	10-6	10-6	10-7	10-7	10-7	10-7	10-8	10-8	10-8	10-8
200.00	13-9	13-9	13-10	13-10	13-10	13-11	13-11	13-11	13-11	14-0
225.00	17-5	17-6	17-6	17-6	17-7	17-7	17-7	17-8	17-8	17-9
250.00	21-7	21-7	21-8	21-8	21-9	21-9	21-10	21-10	21-11	21-11
275.00	26-2	26-2	26-3	26-3	26-4	26-5	26-5	26-6	26-6	26-7
300.00	31-2	31-3	31-3	31-4	31-5	31-6	31-6	31-7	31-8	31-8
325.00	36-8	36-9	36-10	36-11	36-11	37-0	37-1	37-2	37-3	37-4
350.00	42-8	42-9	42-10	42-11	43-0	43-1	43-2	43-3	43-4	43-5
375.00	49-1	49-2	49-3	49-4	49-6	49-7	49-8	49-9	49-10	49-11

Stringing Sag Table Using Final Sag								Ruling Span:	300.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
150.00	7-9	7-9	7-9	7-9	7-10	7-10	7-10	7-10	7-10	7-10
175.00	10-7	10-7	10-7	10-7	10-8	10-8	10-8	10-8	10-8	10-9
200.00	13-10	13-10	13-10	13-10	13-11	13-11	13-11	14-0	14-0	14-0
225.00	17-6	17-6	17-7	17-7	17-7	17-8	17-8	17-9	17-9	17-9
250.00	21-8	21-8	21-9	21-9	21-10	21-10	21-11	21-11	22-0	22-0
275.00	26-3	26-3	26-4	26-5	26-5	26-6	26-6	26-7	26-8	26-8
300.00	31-3	31-4	31-5	31-6	31-6	31-7	31-8	31-8	31-9	31-10
325.00	36-10	36-11	36-11	37-0	37-1	37-2	37-3	37-4	37-4	37-5
350.00	42-10	42-11	43-0	43-1	43-2	43-3	43-4	43-5	43-6	43-6
375.00	49-3	49-4	49-6	49-7	49-8	49-9	49-10	49-11	50-0	50-1

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B						E					
A	ORIGINAL ISSUE	GW	JS	CZH	7/17/2018	D					

<div>SHEET</div> <div>196 OF 198</div>	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH823.196
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	STRINGING SAG TABLES: 300' RULING SPAN 111MPH HEAVY LOADING 336.4 RTS TRIPLEX TENSION 2000 LBS					

Stringing Sag Table Using Initial Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	14-3	14-3	14-3	14-3	14-3	14-4	14-4	14-4	14-4	14-4
225.00	18-1	18-1	18-1	18-1	18-1	18-2	18-2	18-2	18-2	18-2
250.00	22-4	22-4	22-4	22-5	22-5	22-5	22-5	22-6	22-6	22-6
275.00	27-1	27-1	27-1	27-2	27-2	27-2	27-3	27-3	27-3	27-4
300.00	32-3	32-4	32-4	32-5	32-5	32-5	32-6	32-6	32-7	32-7
325.00	38-0	38-0	38-1	38-1	38-2	38-2	38-3	38-3	38-4	38-4
350.00	44-2	44-3	44-3	44-4	44-4	44-5	44-5	44-6	44-6	44-7
375.00	50-11	50-11	51-0	51-0	51-1	51-2	51-2	51-3	51-3	51-4
400.00	58-1	58-2	58-2	58-3	58-4	58-4	58-5	58-6	58-7	58-7
425.00	65-9	65-10	65-11	66-0	66-1	66-1	66-2	66-3	66-4	66-5
450.00	74-0	74-1	74-2	74-3	74-4	74-5	74-6	74-7	74-7	74-8
475.00	82-9	82-10	83-0	83-1	83-2	83-3	83-4	83-5	83-6	83-7
500.00	92-1	92-2	92-4	92-5	92-6	92-7	92-8	92-9	92-10	93-0

Stringing Sag Table Using Final Sag								Ruling Span:	400.0	Feet
Temp F >	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0
Sag	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
200.00	14-3	14-3	14-3	14-4	14-4	14-4	14-4	14-4	14-4	14-5
225.00	18-1	18-1	18-1	18-2	18-2	18-2	18-2	18-2	18-3	18-3
250.00	22-4	22-5	22-5	22-5	22-5	22-6	22-6	22-6	22-6	22-7
275.00	27-1	27-2	27-2	27-2	27-3	27-3	27-3	27-4	27-4	27-4
300.00	32-4	32-5	32-5	32-5	32-6	32-6	32-7	32-7	32-7	32-8
325.00	38-1	38-1	38-2	38-2	38-3	38-3	38-4	38-4	38-4	38-5
350.00	44-3	44-4	44-4	44-5	44-5	44-6	44-6	44-7	44-8	44-8
375.00	51-0	51-0	51-1	51-2	51-2	51-3	51-3	51-4	51-5	51-5
400.00	58-2	58-3	58-4	58-4	58-5	58-6	58-7	58-7	58-8	58-8
425.00	65-11	66-0	66-1	66-1	66-2	66-3	66-4	66-5	66-5	66-6
450.00	74-2	74-3	74-4	74-5	74-6	74-7	74-8	74-8	74-9	74-10
475.00	82-11	83-0	83-1	83-3	83-4	83-5	83-6	83-7	83-8	83-9
500.00	92-3	92-5	92-6	92-7	92-8	92-9	92-10	93-0	93-1	93-2

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[illegible]

SCOPE: THIS STANDARD DESCRIBES THE METHOD IN DETERMINING MAXIMUM SPAN (UP TO 120 FEET), NUMBER OF CROSSARMS AND CLASS OF POLE IN "REDUCED TENSION SPAN" CONSTRUCTION, ALLOWED IN LIGHT LOADING DISTRICTS ONLY.

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STANDARD BEING TOTALLY REVISED AND
WILL BE AVAILABLE AT A LATER DATE.

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REV	CHANGE	BY	DSGN	APPV	DATE	REV	CHANGE	BY	DSGN	APPV	DATE
C						F					
B	EDITORIAL CHANGES	GW	JS	CZH	7/17/2018	E					
A	REVISION REASON			PIA/MC	6/17/2009	D					

SHEET 1 OF 1	Indicates Latest Revision	Completely Revised	X	New Page	Information Removed	OH824
	SDG&E ELECTRIC OVERHEAD CONSTRUCTION STANDARDS					
	REDUCED TENSION SPAN CONSTRUCTION SINGLE/DOUBLE CROSSARMS					