



MORRISON HERSHFIELD

Morrison Hershfield  
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Date: **August 21, 2021**

**Subject:** **Structural Analysis Report**

**Carrier Designation:** **Verizon Wireless Co-Locate**  
**Site Number:** 469273  
**Site Name:** Southington CT

**Crown Castle Designation:** **BU Number:** 876334  
**Site Name:** Southington, Smoron  
**JDE Job Number:** 682795  
**Work Order Number:** 2007087  
**Order Number:** 582736 Rev. 0

**Engineering Firm Designation:** **Morrison Hershfield Project Number:** CN9-393 / 2101398

**Site Data:** **625 Spring Street, Southington, Hartford County, CT 06489**  
**Latitude 41° 37' 56.9", Longitude -72° 53' 39.3"**  
**160.333 Foot – Summit Monopole Tower**

Morrison Hershfield is pleased to submit this “**Structural Analysis Report**” to determine the structural integrity of the above-mentioned tower.

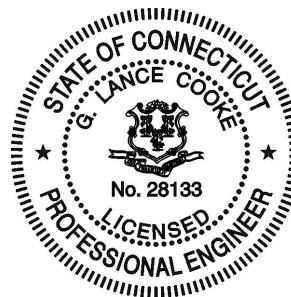
The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC7: Proposed Equipment Configuration **Sufficient Capacity – 93.5%**

This analysis utilizes an ultimate 3-second gust wind speed of 125 mph as required by the 2018 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Respectfully submitted by:

G. Lance Cooke, P.E. (CT License No. PEN.0028133)  
Senior Engineer



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## 1) INTRODUCTION

This tower is a 160.333 ft Summit monopole tower mapped by FDH Engineering Innovation.

The tower has been modified multiple times in the past to accommodate additional loading. All the modifications have been considered in this analysis per their respective post modification inspection reports.

## 2) ANALYSIS CRITERIA

<b>TIA-222 Revision:</b>	TIA-222-H
<b>Risk Category:</b>	II
<b>Wind Speed:</b>	125 mph
<b>Exposure Category:</b>	C
<b>Topographic Factor:</b>	1
<b>Ice Thickness:</b>	2 in
<b>Wind Speed with Ice:</b>	50 mph
<b>Service Wind Speed:</b>	60 mph

**Table 1 - Proposed Equipment Configuration**

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
132.0	134.0	3	antel	BXA-80080-6CF-EDIN-X w/ Mount Pipe	20	1-5/8
	133.0	3	commscope	NHH-65B-R2B		
		3	commscope	NHHSS-65B-R2B		
		3	samsung telecommunications	MT6407-77A w/ Mount Pipe		
		3	samsung telecommunications	RFV01U-D1A		
		3	samsung telecommunications	RFV01U-D2A		
	132.0	3	-	Side by Side Mounting Kit [#BASMNT_SBS-1-2]		
		1	-	Platform Mount [LP 1201-1_HR-1]		

**Table 2 - Other Considered Equipment**

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
156.0	157.0	2	andrew	SBNH-1D6565C w/ Mount Pipe	8 6 3 2	1-5/8 3/4 2C 3/8
		2	cci antennas	TPA-65R-LCUUUU-H8 w/ Mount Pipe		
		1	kathrein	80010798 w/ Mount Pipe		
		1	kathrein	80010965 w/ Mount Pipe		
		2	kathrein	80010966 w/ Mount Pipe		
		1	kmw communications	AM-X-CD-16-65-00T-RET w/ Mount Pipe		
		3	cci antennas	DTMABP7819VG12A		
		3	ericsson	RRUS 11		
		3	ericsson	RRUS 12		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
156.0	157.0	3	ericsson	RRUS 32	-	-
		3	ericsson	RRUS 32 B2		
		3	ericsson	RRUS 32 B66		
		3	ericsson	RRUS 4478 B14		
		1	raycap	DC6-48-60-0-8F		
	2	raycap	DC6-48-60-18-8F			
	156.0	1	-	Sector Mount [SM 502-3]		
146.0	147.0	3	ericsson	AIR6449 B41_T-MOBILE w/ Mount Pipe	4	1-5/8
		3	rfs/celwave	APX16DWV-16DWV-S-E-A20 w/ Mount Pipe		
		3	rfs/celwave	APXVAALL24_43-U-NA20_TMO w/ Mount Pipe		
		3	ericsson	RADIO 4415 B66A		
		3	ericsson	RADIO 4424 B25_TMO		
	3	ericsson	RADIO 4449 B71 B85A_T-MOBILE			
	146.0	1	-	Platform Mount [LP 1201-1_HR-1]		
139.0	139.0	3	rfs/celwave	APXV18-206517S-C	6	1-5/8
		1	-	Pipe Mount [PM 601-3]		
114.0	114.0	3	jma wireless	MX08FRO665-21 w/ Mount Pipe	1	1-1/2
		3	fujitsu	TA08025-B604		
		3	fujitsu	TA08025-B605		
		1	raycap	RDIDC-9181-PF-48		
		1	tower mounts	Commscope MC-PK8-DSH		
101.0	102.0	1	symmetricom	58532A	1	1/2
	101.0	1	-	Side Arm Mount [SO 701-1]		

### 3) ANALYSIS PROCEDURE

**Table 3 - Documents Provided**

Document	Reference	Source
4-GEOTECHNICAL REPORTS	1530919	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	1999756	CCISITES
4-TOWER MANUFACTURER DRAWINGS	1614569	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	2588177	CCISITES
4-POST-MODIFICATION INSPECTION	2588175	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	3363885	CCISITES
4-POST-MODIFICATION INSPECTION	3794196	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	5288062	CCISITES
4-POST-MODIFICATION INSPECTION	5570676	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	5755362	CCISITES
4-POST-MODIFICATION INSPECTION	5888770	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	6249238	CCISITES

Document	Reference	Source
4-POST-MODIFICATION INSPECTION	6544953	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	6962729	CCISITES
4-POST-MODIFICATION INSPECTION	7104038	CCISITES

### 3.1) Analysis Method

tnxTower (version 8.1.1.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 standard.

tnxTower was used to determine the loads on the modified structure. Additional calculations were performed to determine the stresses in the pole and in the reinforcing elements. These calculations are presented in Appendix C.

### 3.2) Assumptions

- 1) Tower and structures were maintained in accordance with the TIA-222 Standard.
- 2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.

This analysis may be affected if any assumptions are not valid or have been made in error. Morrison Hershfield should be notified to determine the effect on the structural integrity of the tower.

## 4) ANALYSIS RESULTS

**Table 4 - Section Capacity (Summary)**

Section No.	Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
L1	160.333 - 155.333	Pole	TP16x16x0.375	Pole	5.3	Pass
L2	155.333 - 150.333	Pole	TP16x16x0.375	Pole	21.0	Pass
L3	150.333 - 146.833	Pole	TP16x16x0.375	Pole	32.7	Pass
L4	146.833 - 146.333	Pole	TP22x22x0.375	Pole	18.2	Pass
L5	146.333 - 141.333	Pole	TP22.924x22x0.25	Pole	27.9	Pass
L6	141.333 - 136.333	Pole	TP23.848x22.924x0.25	Pole	38.5	Pass
L7	136.333 - 131.333	Pole	TP24.772x23.848x0.25	Pole	50.1	Pass
L8	131.333 - 126.333	Pole	TP25.696x24.772x0.25	Pole	62.9	Pass
L9	126.333 - 121.333	Pole	TP26.62x25.696x0.25	Pole	74.9	Pass
L10	121.333 - 120.083	Pole	TP26.851x26.62x0.25	Pole	77.7	Pass
L11	120.083 - 119.833	Pole + Reinf.	TP26.897x26.851x0.4875	Reinf. 18 Tension Rupture	54.0	Pass
L12	119.833 - 117.5	Pole + Reinf.	TP27.328x26.897x0.4875	Reinf. 18 Tension Rupture	57.7	Pass
L13	117.5 - 117.25	Pole + Reinf.	TP27.375x27.328x0.5	Reinf. 19 Tension Rupture	53.8	Pass
L14	117.25 - 115.5	Pole + Reinf.	TP27.698x27.375x0.5	Reinf. 19 Tension Rupture	56.3	Pass
L15	115.5 - 115.25	Pole + Reinf.	TP27.744x27.698x0.6625	Reinf. 11 Tension Rupture	49.7	Pass
L16	115.25 - 110.25	Pole + Reinf.	TP28.668x27.744x0.65	Reinf. 11 Tension Rupture	56.9	Pass
L17	110.25 - 104.083	Pole + Reinf.	TP29.808x28.668x0.6375	Reinf. 11 Tension Rupture	60.4	Pass
L18	104.083 - 102.82	Pole + Reinf.	TP29.541x28.617x0.7	Reinf. 11 Tension Rupture	62.6	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
L19	102.82 - 100.5	Pole + Reinf.	TP29.969x29.541x0.6875	Reinf. 11 Tension Rupture	65.4	Pass
L20	100.5 - 100.25	Pole + Reinf.	TP30.015x29.969x0.6375	Reinf. 18 Tension Rupture	66.9	Pass
L21	100.25 - 98.5	Pole + Reinf.	TP30.338x30.015x0.625	Reinf. 18 Tension Rupture	68.9	Pass
L22	98.5 - 98.25	Pole + Reinf.	TP30.385x30.338x0.6625	Reinf. 10 Tension Rupture	65.9	Pass
L23	98.25 - 93.25	Pole + Reinf.	TP31.308x30.385x0.65	Reinf. 10 Tension Rupture	71.2	Pass
L24	93.25 - 90.5	Pole + Reinf.	TP31.816x31.308x0.6375	Reinf. 10 Tension Rupture	74.0	Pass
L25	90.5 - 90.25	Pole + Reinf.	TP31.862x31.816x0.6875	Reinf. 10 Tension Rupture	73.0	Pass
L26	90.25 - 85.25	Pole + Reinf.	TP32.785x31.862x0.675	Reinf. 10 Tension Rupture	77.8	Pass
L27	85.25 - 83.5	Pole + Reinf.	TP33.108x32.785x0.6625	Reinf. 10 Tension Rupture	79.4	Pass
L28	83.5 - 83.25	Pole + Reinf.	TP33.154x33.108x0.9125	Reinf. 22 Tension Rupture	60.2	Pass
L29	83.25 - 80.75	Pole + Reinf.	TP33.616x33.154x0.8875	Reinf. 22 Tension Rupture	62.0	Pass
L30	80.75 - 80.5	Pole + Reinf.	TP33.662x33.616x1.0625	Reinf. 22 Tension Rupture	51.0	Pass
L31	80.5 - 80.25	Pole + Reinf.	TP33.708x33.662x0.975	Reinf. 8 Tension Rupture	54.9	Pass
L32	80.25 - 77.5	Pole + Reinf.	TP34.216x33.708x0.9625	Reinf. 8 Tension Rupture	56.7	Pass
L33	77.5 - 77.25	Pole + Reinf.	TP34.262x34.216x0.6875	Reinf. 8 Tension Rupture	79.3	Pass
L34	77.25 - 68.82	Pole + Reinf.	TP35.819x34.262x0.6875	Reinf. 8 Tension Rupture	82.6	Pass
L35	68.82 - 68.291	Pole + Reinf.	TP35.291x34.368x0.75	Reinf. 8 Tension Rupture	81.0	Pass
L36	68.291 - 64.25	Pole + Reinf.	TP36.037x35.291x0.7375	Reinf. 8 Tension Rupture	83.8	Pass
L37	64.25 - 64	Pole + Reinf.	TP36.084x36.037x0.875	Reinf. 21 Tension Rupture	73.9	Pass
L38	64 - 60.5	Pole + Reinf.	TP36.73x36.084x0.8625	Reinf. 21 Tension Rupture	76.1	Pass
L39	60.5 - 60.25	Pole + Reinf.	TP36.776x36.73x0.925	Reinf. 21 Tension Rupture	71.8	Pass
L40	60.25 - 60.083	Pole + Reinf.	TP36.807x36.776x0.925	Reinf. 21 Tension Rupture	71.9	Pass
L41	60.083 - 59.833	Pole + Reinf.	TP36.853x36.807x0.975	Reinf. 21 Tension Rupture	69.6	Pass
L42	59.833 - 59.083	Pole + Reinf.	TP36.991x36.853x0.975	Reinf. 21 Tension Rupture	70.0	Pass
L43	59.083 - 58.833	Pole + Reinf.	TP37.037x36.991x1.05	Reinf. 21 Tension Rupture	63.8	Pass
L44	58.833 - 55.4167	Pole + Reinf.	TP37.668x37.037x1.025	Reinf. 21 Tension Rupture	65.5	Pass
L45	55.4167 - 55.1667	Pole + Reinf.	TP37.714x37.668x1.025	Reinf. 21 Tension Rupture	65.6	Pass
L46	55.1667 - 54.75	Pole + Reinf.	TP37.791x37.714x1.025	Reinf. 21 Tension Rupture	65.8	Pass
L47	54.75 - 54.5	Pole + Reinf.	TP37.837x37.791x0.825	Reinf. 7 Tension Rupture	79.9	Pass
L48	54.5 - 49.5	Pole + Reinf.	TP38.76x37.837x0.8125	Reinf. 7 Tension Rupture	82.6	Pass
L49	49.5 - 44.5	Pole + Reinf.	TP39.683x38.76x0.8	Reinf. 7 Tension Rupture	85.2	Pass
L50	44.5 - 41.25	Pole + Reinf.	TP40.283x39.683x0.7875	Reinf. 7 Tension Rupture	86.8	Pass
L51	41.25 - 41	Pole + Reinf.	TP40.329x40.283x0.875	Reinf. 7 Tension Rupture	76.2	Pass
L52	41 - 34.291	Pole + Reinf.	TP41.568x40.329x0.875	Reinf. 7 Tension Rupture	77.1	Pass
L53	34.291 - 33.291	Pole + Reinf.	TP40.996x39.949x1.175	Reinf. 7 Tension Rupture	60.3	Pass
L54	33.291 - 31.5	Pole + Reinf.	TP41.324x40.996x1.175	Reinf. 7 Tension Rupture	60.9	Pass
L55	31.5 - 31.25	Pole + Reinf.	TP41.37x41.324x1.175	Reinf. 7 Tension Rupture	60.6	Pass
L56	31.25 - 30.5	Pole + Reinf.	TP41.507x41.37x1.175	Reinf. 7 Tension Rupture	60.9	Pass
L57	30.5 - 30.25	Pole + Reinf.	TP41.553x41.507x1.125	Reinf. 6 Tension Rupture	63.9	Pass
L58	30.25 - 25.75	Pole + Reinf.	TP42.378x41.553x1.1	Reinf. 6 Tension Rupture	65.5	Pass
L59	25.75 - 25.5	Pole + Reinf.	TP42.424x42.378x1.025	Reinf. 6 Tension Rupture	71.7	Pass
L60	25.5 - 24.6667	Pole + Reinf.	TP42.577x42.424x1.025	Reinf. 6 Tension Rupture	72.0	Pass
L61	24.6667 - 24.4167	Pole + Reinf.	TP42.623x42.577x0.925	Reinf. 6 Tension Rupture	79.2	Pass
L62	24.4167 - 24	Pole + Reinf.	TP42.699x42.623x0.9125	Reinf. 6 Tension Rupture	79.4	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
L63	24 - 23.75	Pole + Reinf.	TP42.745x42.699x1.025	Reinf. 6 Tension Rupture	75.1	Pass
L64	23.75 - 18.75	Pole + Reinf.	TP43.662x42.745x1	Reinf. 6 Tension Rupture	77.0	Pass
L65	18.75 - 14.083	Pole + Reinf.	TP44.518x43.662x0.9875	Reinf. 6 Tension Rupture	78.8	Pass
L66	14.083 - 13.817	Pole + Reinf.	TP44.566x44.518x0.9625	Reinf. 1 Tension Rupture	77.0	Pass
L67	13.817 - 13.667	Pole + Reinf.	TP44.594x44.566x0.9625	Reinf. 1 Tension Rupture	77.0	Pass
L68	13.667 - 10.5	Pole + Reinf.	TP45.175x44.594x0.95	Reinf. 1 Tension Rupture	78.1	Pass
L69	10.5 - 10.25	Pole + Reinf.	TP45.22x45.175x0.9	Reinf. 13 Tension Rupture	80.7	Pass
L70	10.25 - 5.25	Pole + Reinf.	TP46.137x45.22x0.875	Reinf. 13 Tension Rupture	82.4	Pass
L71	5.25 - 2.9	Pole + Reinf.	TP46.568x46.137x0.75	Reinf. 23 Compression	93.4	Pass
L72	2.9 - 2.65	Pole + Reinf.	TP46.614x46.568x0.75	Reinf. 23 Compression	93.5	Pass
L73	2.65 - 2.5	Pole + Reinf.	TP46.642x46.614x0.75	Reinf. 23 Compression	93.5	Pass
L74	2.5 - 2.25	Pole + Reinf.	TP46.687x46.642x0.875	Reinf. 23 Compression	79.9	Pass
L75	2.25 - 1.917	Pole + Reinf.	TP46.748x46.687x0.875	Reinf. 23 Compression	80.0	Pass
L76	1.917 - 1.667	Pole + Reinf.	TP46.794x46.748x0.775	Reinf. 23 Compression	85.9	Pass
L77	1.667 - 0	Pole + Reinf.	TP47.1x46.794x0.7625	Reinf. 23 Compression	86.4	Pass
					Summary	
				Pole	81.0	Pass
				Reinforcement	93.5	Pass
				Overall	93.5	Pass

**Table 5 - Tower Component Stresses vs. Capacity – LC7**

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	70.7	Pass
1	Base Plate		63.8	Pass
1	Base Foundation (Structure)	0	63.0	Pass
1	Base Foundation (Soil Interaction)		90.6	Pass

<b>Structure Rating (max from all components) =</b>	<b>93.5%*</b>
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Notes:

- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.
- 2) \*Rating per TIA-222-H, Section 15.5.

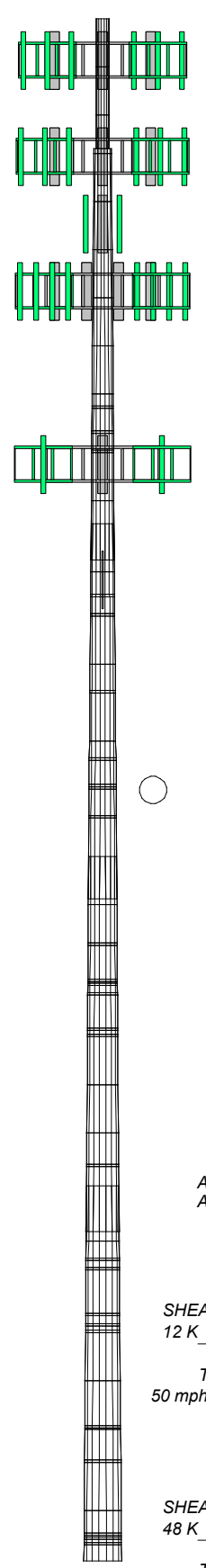
#### 4.1) Recommendations

The tower and its foundation have sufficient capacity to carry the proposed load configuration. No modifications are required at this time.

**APPENDIX A**  
**TNXTOWER OUTPUT**



Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (K)		
1	5.00	0	0.3750	3.74	160.3	155.3	A53-B-35	0.3		
2	5.00	0	0.3750		150.3	146.8		0.3		
3	5.00	0	0.3750		141.3	136.3		0.3		
4	5.00	0	0.3750		131.3	126.3		0.3		
5	5.00	0	0.3750		121.3	117.5		0.3		
6	5.00	0	0.3750		115.5	110.3		0.3		
7	5.00	0	0.3750		104.1	100.5		0.3		
8	5.00	0	0.3750		98.5	93.3		0.3		
9	5.00	0	0.3750		90.5	85.3		0.3		
10	5.00	0	0.3750		83.5	80.8		0.3		
11	5.00	0	0.3750		77.5	77.5		0.3		
12	5.00	0	0.3750		4.47	68.8		64.3	A607-60	0.4
13	5.00	0	0.3750			60.5		58.8		0.4
14	5.00	0	0.3750			55.4		49.5		0.4
15	5.00	0	0.3750			44.5		41.3		0.4
16	5.00	0	0.3750			34.3		31.5		0.4
17	5.00	0	0.3750			25.8		24.0		0.4
18	5.00	0	0.3750	18.8		14.1	0.4			
19	5.00	0	0.3750	10.5		5.3	0.4			
20	5.00	0	0.3750	2.9		0.0	0.4			
21	5.00	0	0.3750	4.71		46.20	46.20	A607-65		0.7
22	5.00	0	0.3750			46.20	46.20			0.7
23	5.00	0	0.3750			46.20	46.20			0.7
24	5.00	0	0.3750			46.20	46.20			0.7
25	5.00	0	0.3750			46.20	46.20			0.7
26	5.00	0	0.3750			46.20	46.20			0.7
27	5.00	0	0.3750			46.20	46.20			0.7
28	5.00	0	0.3750			46.20	46.20			0.7
29	5.00	0	0.3750		46.20	46.20	0.7			
30	5.00	0	0.3750		46.20	46.20	0.7			
31	5.00	0	0.3750		46.20	46.20	0.7			
32	5.00	0	0.3750		46.20	46.20	0.7			
33	5.00	0	0.3750		46.20	46.20	0.7			
34	5.00	0	0.3750		46.20	46.20	0.7			
35	5.00	0	0.3750		46.20	46.20	0.7			

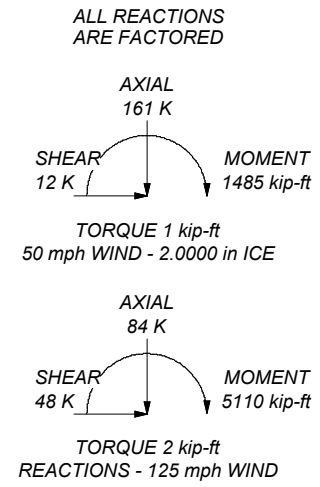


**MATERIAL STRENGTH**

GRADE	Fy	Fu	GRADE	Fy	Fu
A53-B-35	35 ksi	63 ksi	A607-65	65 ksi	80 ksi
A607-60	60 ksi	75 ksi			

**TOWER DESIGN NOTES**

1. Tower is located in Hartford County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 125 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 2.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. CCIPOLE RATING: 93.5%



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Job: **CN9-393 / 2101398**  
 Project: **876334 / Southington, Smoron**  
 Client: Crown Castle USA  
 Code: TIA-222-H  
 Path: C:\Users\Naidu.MH\Desktop\manning\Daily Jobs\MPCN9-393\CN9-393.BU\_876334.WO\_2007087.dwg

Drawn by: NN  
 Date: 08/21/21  
 Scale: NTS  
 Dwg No. E-1

## Tower Input Data

The tower is a monopole.  
 This tower is designed using the TIA-222-H standard.  
 The following design criteria apply:

- Tower is located in Hartford County, Connecticut.
- Tower base elevation above sea level: 296.00 ft.
- Basic wind speed of 125 mph.
- Risk Category II.
- Exposure Category C.
- Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- Topographic Category: 1.
- Crest Height: 0.00 ft.
- Nominal ice thickness of 2.0000 in.
- Ice thickness is considered to increase with height.
- Ice density of 56 pcf.
- A wind speed of 50 mph is used in combination with ice.
- Temperature drop of 50 °F.
- Deflections calculated using a wind speed of 60 mph.
- A non-linear (P-delta) analysis was used.
- Pressures are calculated at each section.
- Stress ratio used in pole design is 1.
- Tower analysis based on target reliabilities in accordance with Annex S.
- Load Modification Factors used:  $K_{es}(F_w) = 0.95$ ,  $K_{es}(t_i) = 0.85$ .
- Maximum demand-capacity ratio is: 1.05.
- Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

## Options

- |  |   |  |
|--|---|--|
| <ul style="list-style-type: none"> <li>Consider Moments - Legs</li> <li>Consider Moments - Horizontals</li> <li>Consider Moments - Diagonals</li> <li>Use Moment Magnification</li> <li>√ Use Code Stress Ratios</li> <li>√ Use Code Safety Factors - Guys</li> <li>Escalate Ice</li> <li>Always Use Max Kz</li> <li>Use Special Wind Profile</li> <br/> <li>Include Bolts In Member Capacity</li> <br/> <li>Leg Bolts Are At Top Of Section</li> <li>Secondary Horizontal Braces Leg</li> <li>Use Diamond Inner Bracing (4 Sided)</li> <li>SR Members Have Cut Ends</li> <li>SR Members Are Concentric</li> </ul> | <ul style="list-style-type: none"> <li>Distribute Leg Loads As Uniform</li> <li>Assume Legs Pinned</li> <li>√ Assume Rigid Index Plate</li> <li>√ Use Clear Spans For Wind Area</li> <li>Use Clear Spans For KL/r</li> <li>Retension Guys To Initial Tension</li> <li>√ Bypass Mast Stability Checks</li> <li>√ Use Azimuth Dish Coefficients</li> <li>√ Project Wind Area of Appurt.</li> <br/> <li>Autocalc Torque Arm Areas</li> <br/> <li>Add IBC .6D+W Combination</li> <li>Sort Capacity Reports By Component</li> <li>Triangulate Diamond Inner Bracing</li> <li>Treat Feed Line Bundles As Cylinder</li> <li>Ignore KL/ry For 60 Deg. Angle Legs</li> </ul> | <ul style="list-style-type: none"> <li>Use ASCE 10 X-Brace Ly Rules</li> <li>Calculate Redundant Bracing Forces</li> <li>Ignore Redundant Members in FEA</li> <li>SR Leg Bolts Resist Compression</li> <li>All Leg Panels Have Same Allowable</li> <li>Offset Girt At Foundation</li> <li>√ Consider Feed Line Torque</li> <li>Include Angle Block Shear Check</li> <li>Use TIA-222-H Bracing Resist. Exemption</li> <li>Use TIA-222-H Tension Splice Exemption</li> <br/> <li style="text-align: center;"><b>Poles</b></li> <li>√ Include Shear-Torsion Interaction</li> <li>Always Use Sub-Critical Flow</li> <li>Use Top Mounted Sockets</li> <li>Pole Without Linear Attachments</li> <li>Pole With Shroud Or No Appurtenances</li> <li>Outside and Inside Corner Radii Are Known</li> </ul> |
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## Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	160.33-155.33	5.00	0.00	Round	16.0000	16.0000	0.3750		A53-B-35 (35 ksi)
L2	155.33-150.33	5.00	0.00	Round	16.0000	16.0000	0.3750		A53-B-35

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L3	150.33-146.83	3.50	0.00	Round	16.0000	16.0000	0.3750		(35 ksi) A53-B-35
L4	146.83-146.33	0.50	0.00	Round	22.0000	22.0000	0.3750		(35 ksi) A53-B-35
L5	146.33-141.33	5.00	0.00	12	22.0000	22.9240	0.2500	1.0000	(35 ksi) A607-60
L6	141.33-136.33	5.00	0.00	12	22.9240	23.8480	0.2500	1.0000	(60 ksi) A607-60
L7	136.33-131.33	5.00	0.00	12	23.8480	24.7721	0.2500	1.0000	(60 ksi) A607-60
L8	131.33-126.33	5.00	0.00	12	24.7721	25.6961	0.2500	1.0000	(60 ksi) A607-60
L9	126.33-121.33	5.00	0.00	12	25.6961	26.6201	0.2500	1.0000	(60 ksi) A607-60
L10	121.33-120.08	1.25	0.00	12	26.6201	26.8511	0.2500	1.0000	(60 ksi) A607-60
L11	120.08-119.83	0.25	0.00	12	26.8511	26.8973	0.4875	1.9500	(60 ksi) A607-60
L12	119.83-117.50	2.33	0.00	12	26.8973	27.3285	0.4875	1.9500	(60 ksi) A607-60
L13	117.50-117.25	0.25	0.00	12	27.3285	27.3747	0.5000	2.0000	(60 ksi) A607-60
L14	117.25-115.50	1.75	0.00	12	27.3747	27.6981	0.5000	2.0000	(60 ksi) A607-60
L15	115.50-115.25	0.25	0.00	12	27.6981	27.7443	0.6625	2.6500	(60 ksi) A607-60
L16	115.25-110.25	5.00	0.00	12	27.7443	28.6683	0.6500	2.6000	(60 ksi) A607-60
L17	110.25-104.08	6.17	3.74	12	28.6683	29.8080	0.6375	2.5500	(60 ksi) A607-60
L18	104.08-102.82	5.00	0.00	12	28.6174	29.5407	0.7000	2.8000	(60 ksi) A607-60
L19	102.82-100.50	2.32	0.00	12	29.5407	29.9691	0.6875	2.7500	(60 ksi) A607-60
L20	100.50-100.25	0.25	0.00	12	29.9691	30.0152	0.6375	2.5500	(60 ksi) A607-60
L21	100.25-98.50	1.75	0.00	12	30.0152	30.3384	0.6250	2.5000	(60 ksi) A607-60
L22	98.50-98.25	0.25	0.00	12	30.3384	30.3846	0.6625	2.6500	(60 ksi) A607-60
L23	98.25-93.25	5.00	0.00	12	30.3846	31.3078	0.6500	2.6000	(60 ksi) A607-60
L24	93.25-90.50	2.75	0.00	12	31.3078	31.8156	0.6375	2.5500	(60 ksi) A607-60
L25	90.50-90.25	0.25	0.00	12	31.8156	31.8618	0.6875	2.7500	(60 ksi) A607-60
L26	90.25-85.25	5.00	0.00	12	31.8618	32.7851	0.6750	2.7000	(60 ksi) A607-60
L27	85.25-83.50	1.75	0.00	12	32.7851	33.1082	0.6625	2.6500	(60 ksi) A607-60
L28	83.50-83.25	0.25	0.00	12	33.1082	33.1544	0.9125	3.6500	(60 ksi) A607-60
L29	83.25-80.75	2.50	0.00	12	33.1544	33.6160	0.8875	3.5500	(60 ksi) A607-60
L30	80.75-80.50	0.25	0.00	12	33.6160	33.6622	1.0625	4.2500	(60 ksi) A607-60
L31	80.50-80.25	0.25	0.00	12	33.6622	33.7084	0.9750	3.9000	(60 ksi) A607-60
L32	80.25-77.50	2.75	0.00	12	33.7084	34.2162	0.9625	3.8500	(60 ksi) A607-60
L33	77.50-77.25	0.25	0.00	12	34.2162	34.2623	0.6875	2.7500	(60 ksi) A607-60
L34	77.25-68.82	8.43	4.47	12	34.2623	35.8190	0.6875	2.7500	(60 ksi) A607-60
L35	68.82-68.29	5.00	0.00	12	34.3684	35.2914	0.7500	3.0000	(60 ksi) A607-60
L36	68.29-64.25	4.04	0.00	12	35.2914	36.0374	0.7375	2.9500	(60 ksi) A607-60

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L37	64.25-64.00	0.25	0.00	12	36.0374	36.0836	0.8750	3.5000	A607-60 (60 ksi)
L38	64.00-60.50	3.50	0.00	12	36.0836	36.7297	0.8625	3.4500	A607-60 (60 ksi)
L39	60.50-60.25	0.25	0.00	12	36.7297	36.7758	0.9250	3.7000	A607-60 (60 ksi)
L40	60.25-60.08	0.17	0.00	12	36.7758	36.8067	0.9250	3.7000	A607-60 (60 ksi)
L41	60.08-59.83	0.25	0.00	12	36.8067	36.8528	0.9750	3.9000	A607-60 (60 ksi)
L42	59.83-59.08	0.75	0.00	12	36.8528	36.9913	0.9750	3.9000	A607-60 (60 ksi)
L43	59.08-58.83	0.25	0.00	12	36.9913	37.0374	1.0500	4.2000	A607-60 (60 ksi)
L44	58.83-55.42	3.42	0.00	12	37.0374	37.6681	1.0250	4.1000	A607-60 (60 ksi)
L45	55.42-55.17	0.25	0.00	12	37.6681	37.7142	1.0250	4.1000	A607-60 (60 ksi)
L46	55.17-54.75	0.42	0.00	12	37.7142	37.7912	1.0250	4.1000	A607-60 (60 ksi)
L47	54.75-54.50	0.25	0.00	12	37.7912	37.8373	0.8250	3.3000	A607-60 (60 ksi)
L48	54.50-49.50	5.00	0.00	12	37.8373	38.7603	0.8125	3.2500	A607-60 (60 ksi)
L49	49.50-44.50	5.00	0.00	12	38.7603	39.6834	0.8000	3.2000	A607-60 (60 ksi)
L50	44.50-41.25	3.25	0.00	12	39.6834	40.2833	0.7875	3.1500	A607-60 (60 ksi)
L51	41.25-41.00	0.25	0.00	12	40.2833	40.3295	0.8750	3.5000	A607-60 (60 ksi)
L52	41.00-34.29	6.71	4.71	12	40.3295	41.5680	0.8750	3.5000	A607-60 (60 ksi)
L53	34.29-33.29	5.71	0.00	12	39.9487	40.9955	1.1750	4.7000	A607-65 (65 ksi)
L54	33.29-31.50	1.79	0.00	12	40.9955	41.3239	1.1750	4.7000	A607-65 (65 ksi)
L55	31.50-31.25	0.25	0.00	12	41.3239	41.3698	1.1750	4.7000	A607-65 (65 ksi)
L56	31.25-30.50	0.75	0.00	12	41.3698	41.5073	1.1750	4.7000	A607-65 (65 ksi)
L57	30.50-30.25	0.25	0.00	12	41.5073	41.5532	1.1250	4.5000	A607-65 (65 ksi)
L58	30.25-25.75	4.50	0.00	12	41.5532	42.3783	1.1000	4.4000	A607-65 (65 ksi)
L59	25.75-25.50	0.25	0.00	12	42.3783	42.4241	1.0250	4.1000	A607-65 (65 ksi)
L60	25.50-24.67	0.83	0.00	12	42.4241	42.5769	1.0250	4.1000	A607-65 (65 ksi)
L61	24.67-24.42	0.25	0.00	12	42.5769	42.6228	0.9250	3.7000	A607-65 (65 ksi)
L62	24.42-24.00	0.42	0.00	12	42.6228	42.6992	0.9125	3.6500	A607-65 (65 ksi)
L63	24.00-23.75	0.25	0.00	12	42.6992	42.7450	1.0250	4.1000	A607-65 (65 ksi)
L64	23.75-18.75	5.00	0.00	12	42.7450	43.6619	1.0000	4.0000	A607-65 (65 ksi)
L65	18.75-14.08	4.67	0.00	12	43.6619	44.5176	0.9875	3.9500	A607-65 (65 ksi)
L66	14.08-13.82	0.27	0.00	12	44.5176	44.5664	0.9625	3.8500	A607-65 (65 ksi)
L67	13.82-13.67	0.15	0.00	12	44.5664	44.5939	0.9625	3.8500	A607-65 (65 ksi)
L68	13.67-10.50	3.17	0.00	12	44.5939	45.1746	0.9500	3.8000	A607-65 (65 ksi)
L69	10.50-10.25	0.25	0.00	12	45.1746	45.2205	0.9000	3.6000	A607-65 (65 ksi)
L70	10.25-5.25	5.00	0.00	12	45.2205	46.1373	0.8750	3.5000	A607-65 (65 ksi)
L71	5.25-2.90	2.35	0.00	12	46.1373	46.5682	0.7500	3.0000	A607-65

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L72	2.90-2.65	0.25	0.00	12	46.5682	46.6141	0.7500	3.0000	(65 ksi) A607-65
L73	2.65-2.50	0.15	0.00	12	46.6141	46.6416	0.7500	3.0000	(65 ksi) A607-65
L74	2.50-2.25	0.25	0.00	12	46.6416	46.6874	0.8750	3.5000	(65 ksi) A607-65
L75	2.25-1.92	0.33	0.00	12	46.6874	46.7485	0.8750	3.5000	(65 ksi) A607-65
L76	1.92-1.67	0.25	0.00	12	46.7485	46.7943	0.7750	3.1000	(65 ksi) A607-65
L77	1.67-0.00	1.67		12	46.7943	47.1000	0.7625	3.0500	(65 ksi) A607-65

### Tapered Pole Properties

Section	Tip Dia. in	Area in <sup>2</sup>	I in <sup>4</sup>	r in	C in	I/C in <sup>3</sup>	J in <sup>4</sup>	It/Q in <sup>2</sup>	w in	w/t
L1	16.0000	18.4078	562.0841	5.5259	8.0000	70.2605	1124.1682	9.1984	0.0000	0
	16.0000	18.4078	562.0841	5.5259	8.0000	70.2605	1124.1682	9.1984	0.0000	0
L2	16.0000	18.4078	562.0841	5.5259	8.0000	70.2605	1124.1682	9.1984	0.0000	0
	16.0000	18.4078	562.0841	5.5259	8.0000	70.2605	1124.1682	9.1984	0.0000	0
L3	16.0000	18.4078	562.0841	5.5259	8.0000	70.2605	1124.1682	9.1984	0.0000	0
	16.0000	18.4078	562.0841	5.5259	8.0000	70.2605	1124.1682	9.1984	0.0000	0
L4	22.0000	25.4764	1489.6700	7.6467	11.0000	135.4245	2979.3401	12.7306	0.0000	0
	22.0000	25.4764	1489.6700	7.6467	11.0000	135.4245	2979.3401	12.7306	0.0000	0
L5	22.6879	17.5087	1057.2060	7.7865	11.3960	92.7699	2142.1860	8.6173	5.2260	20.904
	23.6445	18.2526	1197.7540	8.1173	11.8746	100.8665	2426.9744	8.9834	5.4736	21.895
L6	23.6445	18.2526	1197.7540	8.1173	11.8746	100.8665	2426.9744	8.9834	5.4736	21.895
	24.6011	18.9964	1350.2370	8.4481	12.3533	109.3018	2735.9463	9.3495	5.7213	22.885
L7	24.6011	18.9964	1350.2370	8.4481	12.3533	109.3018	2735.9463	9.3495	5.7213	22.885
	25.5577	19.7403	1515.1418	8.7789	12.8319	118.0759	3070.0880	9.7156	5.9689	23.876
L8	25.5577	19.7403	1515.1418	8.7789	12.8319	118.0759	3070.0880	9.7156	5.9689	23.876
	26.5144	20.4841	1692.9544	9.1097	13.3106	127.1887	3430.3846	10.0817	6.2166	24.866
L9	26.5144	20.4841	1692.9544	9.1097	13.3106	127.1887	3430.3846	10.0817	6.2166	24.866
	27.4710	21.2279	1884.1612	9.4405	13.7892	136.6401	3817.8214	10.4477	6.4642	25.857
L10	27.4710	21.2279	1884.1612	9.4405	13.7892	136.6401	3817.8214	10.4477	6.4642	25.857
	27.7101	21.4139	1934.1128	9.5232	13.9089	139.0559	3919.0368	10.5393	6.5261	26.104
L11	27.6264	41.3843	3671.4006	9.4382	13.9089	263.9609	7439.2529	20.3681	5.8896	12.081
	27.6742	41.4568	3690.7363	9.4547	13.9328	264.8952	7478.4323	20.4038	5.9020	12.107
L12	27.6742	41.4568	3690.7363	9.4547	13.9328	264.8952	7478.4323	20.4038	5.9020	12.107
	28.1205	42.1336	3874.4611	9.6091	14.1562	273.6945	7850.7086	20.7369	6.0175	12.344
L13	28.1161	43.1938	3968.2570	9.6046	14.1562	280.3204	8040.7645	21.2587	5.9840	11.968
	28.1640	43.2682	3988.7934	9.6211	14.1801	281.2955	8082.3768	21.2953	5.9964	11.993
L14	28.1640	43.2682	3988.7934	9.6211	14.1801	281.2955	8082.3768	21.2953	5.9964	11.993
	28.4988	43.7889	4134.5358	9.7369	14.3476	288.1690	8377.6905	21.5516	6.0831	12.166
L15	28.4415	57.6737	5380.6528	9.6787	14.3476	375.0209	10902.661	28.3852	5.6476	8.525
	28.4893	57.7722	5408.2855	9.6953	14.3715	376.3191	10958.652	28.4337	5.6600	8.543
L16	28.4937	56.7083	5313.5933	9.6998	14.3715	369.7303	10766.780	27.9101	5.6935	8.759
	29.4503	58.6423	5875.9885	10.0306	14.8502	395.6846	11906.345	28.8620	5.9411	9.14
L17	29.4547	57.5402	5770.7054	10.0350	14.8502	388.5949	11693.013	28.3196	5.9746	9.372
	30.6346	59.8797	6503.5971	10.4430	15.4405	421.2026	13178.051	29.4710	6.2800	9.851
L18	30.0944	62.9258	6259.8521	9.9944	14.8238	422.2837	12684.157	30.9702	5.7935	8.276
	30.3358	65.0069	6901.6964	10.3250	15.3021	451.0303	13984.708	31.9944	6.0409	8.63
L19	30.3402	63.8737	6787.2693	10.3294	15.3021	443.5525	13752.847	31.4367	6.0744	8.835
	30.7837	64.8221	7094.1063	10.4828	15.5240	456.9773	14374.582	31.9035	6.1892	9.002

Section	Tip Dia. in	Area in <sup>2</sup>	I in <sup>4</sup>	r in	C in	I/C in <sup>3</sup>	J in <sup>4</sup>	It/Q in <sup>2</sup>	w in	w/t
L20	30.8014	60.2104	6611.9267	10.5007	15.5240	425.9170	13397.556	29.6337	6.3232	9.919
	30.8492	60.3051	6643.1954	10.5172	15.5479	427.2730	13460.914	29.6804	6.3356	9.938
L21	30.8536	59.1479	6521.2538	10.5217	15.5479	419.4301	13213.828	29.1108	6.3691	10.191
	31.1881	59.7982	6738.7334	10.6374	15.7153	428.8012	13654.500	29.4308	6.4557	10.329
L22	31.1749	63.3061	7116.0467	10.6240	15.7153	452.8106	14419.039	31.1573	6.3552	9.593
	31.2227	63.4046	7149.3076	10.6405	15.7392	454.2359	14486.435	31.2058	6.3676	9.611
L23	31.2271	62.2344	7023.2688	10.6450	15.7392	446.2279	14231.046	30.6299	6.4011	9.848
	32.1830	64.1668	7698.0297	10.9755	16.2175	474.6755	15598.295	31.5810	6.6485	10.228
L24	32.1874	62.9585	7559.2294	10.9800	16.2175	466.1168	15317.048	30.9863	6.6820	10.482
	32.7131	64.0009	7940.9537	11.1618	16.4805	481.8393	16090.525	31.4993	6.8181	10.695
L25	32.6955	68.9099	8522.6387	11.1439	16.4805	517.1347	17269.176	33.9154	6.6841	9.722
	32.7432	69.0121	8560.6130	11.1604	16.5044	518.6862	17346.122	33.9657	6.6965	9.74
L26	32.7477	67.7845	8415.0800	11.1649	16.5044	509.8684	17051.233	33.3615	6.7300	9.97
	33.7035	69.7913	9184.8089	11.4954	16.9827	540.8340	18610.912	34.3491	6.9774	10.337
L27	33.7079	68.5255	9025.2518	11.4999	16.9827	531.4387	18287.607	33.7262	7.0109	10.582
	34.0425	69.2149	9300.3796	11.6156	17.1501	542.2941	18845.090	34.0655	7.0975	10.713
L28	33.9543	94.5991	12516.123	11.5261	17.1501	729.8003	25361.060	46.5588	6.4275	7.044
	34.0021	94.7348	12570.039	11.5426	17.1740	731.9235	25470.308	46.6256	6.4399	7.057
L29	34.0109	92.2107	12254.116	11.5516	17.1740	713.5280	24830.161	45.3833	6.5069	7.332
	34.4888	93.5300	12787.635	11.7168	17.4131	734.3682	25911.215	46.0326	6.6306	7.471
L30	34.4271	111.3738	15064.876	11.6542	17.4131	865.1456	30525.524	54.8148	6.1616	5.799
	34.4749	111.5318	15129.059	11.6707	17.4370	867.6400	30655.576	54.8925	6.1740	5.811
L31	34.5057	102.6215	13995.227	11.7020	17.4370	802.6156	28358.124	50.5072	6.4085	6.573
	34.5535	102.7664	14054.607	11.7185	17.4609	804.9171	28478.444	50.5785	6.4208	6.585
L32	34.5579	101.4876	13890.320	11.7230	17.4609	795.5083	28145.556	49.9491	6.4543	6.706
	35.0837	103.0615	14546.605	11.9048	17.7240	820.7302	29475.366	50.7237	6.5904	6.847
L33	35.1807	74.2241	10650.349	12.0033	17.7240	600.9005	21580.495	36.5309	7.3274	10.658
	35.2285	74.3263	10694.401	12.0198	17.7479	602.5730	21669.757	36.5811	7.3398	10.676
L34	35.2285	74.3263	10694.401	12.0198	17.7479	602.5730	21669.757	36.5811	7.3398	10.676
	36.8400	77.7724	12251.932	12.5771	18.5542	660.3305	24825.737	38.2772	7.7570	11.283
L35	36.1707	81.1884	11712.083	12.0354	17.8028	657.8776	23731.856	39.9585	7.2007	9.601
	36.2718	83.4175	12703.513	12.3658	18.2810	694.9041	25740.761	41.0556	7.4481	9.931
L36	36.2762	82.0569	12505.354	12.3703	18.2810	684.0645	25339.238	40.3859	7.4816	10.145
	37.0485	83.8285	13332.906	12.6374	18.6674	714.2355	27016.082	41.2578	7.6815	10.416
L37	37.0000	99.0701	15634.570	12.5881	18.6674	837.5342	31679.879	48.7593	7.3130	8.358

Section	Tip Dia. in	Area in <sup>2</sup>	I in <sup>4</sup>	r in	C in	I/C in <sup>3</sup>	J in <sup>4</sup>	It/Q in <sup>2</sup>	w in	w/t
	37.0478	99.2001	15696.213	12.6047	18.6913	839.7610	31804.783	48.8233	7.3254	8.372
L38	37.0522	97.8177	15488.466	12.6091	18.6913	828.6463	31383.831	48.1429	7.3589	8.532
	37.7211	99.6121	16356.590	12.8405	19.0260	859.6978	33142.885	49.0261	7.5321	8.733
L39	37.6991	106.6443	17450.307	12.8181	19.0260	917.1833	35359.054	52.4871	7.3646	7.962
	37.7468	106.7817	17517.873	12.8346	19.0499	919.5791	35495.960	52.5547	7.3769	7.975
L40	37.7468	106.7817	17517.873	12.8346	19.0499	919.5791	35495.960	52.5547	7.3769	7.975
	37.7788	106.8735	17563.104	12.8456	19.0659	921.1812	35587.610	52.5999	7.3852	7.984
L41	37.7611	112.4935	18435.179	12.8277	19.0659	966.9214	37354.671	55.3659	7.2512	7.437
	37.8089	112.6384	18506.504	12.8443	19.0898	969.4468	37499.195	55.4372	7.2636	7.45
L42	37.8089	112.6384	18506.504	12.8443	19.0898	969.4468	37499.195	55.4372	7.2636	7.45
	37.9522	113.0731	18721.584	12.8938	19.1615	977.0429	37935.005	55.6511	7.3007	7.488
L43	37.9258	121.5174	20036.014	12.8670	19.1615	1045.6404	40598.397	59.8072	7.0997	6.762
	37.9736	121.6735	20113.298	12.8835	19.1854	1048.3657	40754.995	59.8840	7.1120	6.773
L44	37.9824	118.8590	19675.358	12.8924	19.1854	1025.5389	39867.609	58.4988	7.1790	7.004
	38.6353	120.9405	20727.267	13.1182	19.5121	1062.2792	41999.064	59.5232	7.3480	7.169
L45	38.6353	120.9405	20727.267	13.1182	19.5121	1062.2792	41999.064	59.5232	7.3480	7.169
	38.6831	121.0928	20805.683	13.1347	19.5360	1064.9931	42157.954	59.5982	7.3604	7.181
L46	38.6831	121.0928	20805.683	13.1347	19.5360	1064.9931	42157.954	59.5982	7.3604	7.181
	38.7627	121.3467	20936.814	13.1623	19.5758	1069.5241	42423.663	59.7232	7.3810	7.201
L47	38.8333	98.2006	17128.088	13.2339	19.5758	874.9614	34706.150	48.3314	7.9170	9.596
	38.8810	98.3232	17192.321	13.2504	19.5997	877.1714	34836.304	48.3917	7.9294	9.611
L48	38.8855	96.8662	16948.992	13.2549	19.5997	864.7565	34343.253	47.6746	7.9629	9.8
	39.8410	99.2810	18248.466	13.5853	20.0779	908.8852	36976.340	48.8631	8.2103	10.105
L49	39.8454	97.7858	17985.482	13.5898	20.0779	895.7870	36443.463	48.1272	8.2438	10.305
	40.8010	100.1636	19329.622	13.9202	20.5560	940.3404	39167.055	49.2975	8.4911	10.614
L50	40.8054	98.6302	19045.953	13.9247	20.5560	926.5406	38592.265	48.5428	8.5246	10.825
	41.4266	100.1516	19940.967	14.1395	20.8668	955.6328	40405.805	49.2916	8.6854	11.029
L51	41.3957	111.0330	22009.697	14.1082	20.8668	1054.7728	44597.613	54.6471	8.4509	9.658
	41.4435	111.1630	22087.114	14.1247	20.8907	1057.2716	44754.481	54.7111	8.4633	9.672
L52	41.4435	111.1630	22087.114	14.1247	20.8907	1057.2716	44754.481	54.7111	8.4633	9.672
	42.7257	114.6525	24233.101	14.5681	21.5322	1125.4342	49102.833	56.4285	8.7952	10.052
L53	41.8374	146.7003	28150.831	13.8810	20.6934	1360.3757	57041.216	72.2014	7.5572	6.432
	42.0272	150.6610	30493.058	14.2558	21.2357	1435.9346	61787.204	74.1508	7.8378	6.67
L54	42.0272	150.6610	30493.058	14.2558	21.2357	1435.9346	61787.204	74.1508	7.8378	6.67
	42.3672	151.9035	31253.747	14.3733	21.4058	1460.0595	63328.566	74.7623	7.9258	6.745

Section	Tip Dia. in	Area in <sup>2</sup>	I in <sup>4</sup>	r in	C in	I/C in <sup>3</sup>	J in <sup>4</sup>	It/Q in <sup>2</sup>	w in	w/t
L55	42.3672	151.9035	31253.7477	14.3733	21.4058	1460.0595	63328.5661	74.7623	7.9258	6.745
	42.4147	152.0770	31360.9264	14.3897	21.4295	1463.4431	63545.7393	74.8477	7.9381	6.756
L56	42.4147	152.0770	31360.9264	14.3897	21.4295	1463.4431	63545.7393	74.8477	7.9381	6.756
	42.5570	152.5973	31683.9298	14.4390	21.5008	1473.6172	64200.2318	75.1038	7.9750	6.787
L57	42.5747	146.2849	30448.6389	14.4569	21.5008	1416.1639	61697.1975	71.9970	8.1090	7.208
	42.6221	146.4510	30552.4526	14.4733	21.5245	1419.4246	61907.5521	72.0787	8.1212	7.219
L58	42.6310	143.2851	29928.9631	14.4822	21.5245	1390.4581	60644.1933	70.5206	8.1882	7.444
	43.4852	146.2078	31798.0197	14.7776	21.9520	1448.5275	64431.4088	71.9590	8.4094	7.645
L59	43.5117	136.4866	29791.7737	14.8045	21.9520	1357.1349	60366.2105	67.1745	8.6104	8.4
	43.5591	136.6379	29890.9580	14.8209	21.9757	1360.1818	60567.1848	67.2490	8.6227	8.412
L60	43.5591	136.6379	29890.9580	14.8209	21.9757	1360.1818	60567.1848	67.2490	8.6227	8.412
	43.7173	137.1422	30223.1545	14.8756	22.0549	1370.3627	61240.3049	67.4972	8.6636	8.452
L61	43.7526	124.0603	27471.9473	14.9114	22.0549	1245.6189	55665.6132	61.0587	8.9316	9.656
	43.8001	124.1969	27562.7538	14.9278	22.0786	1248.3920	55849.6118	61.1259	8.9439	9.669
L62	43.8045	122.5553	27214.7445	14.9323	22.0786	1232.6298	55144.4506	60.3180	8.9774	9.838
	43.8836	122.7798	27364.5825	14.9596	22.1182	1237.1984	55448.0631	60.4285	8.9979	9.861
L63	43.8439	137.5457	30490.7009	14.9194	22.1182	1378.5355	61782.4266	67.6958	8.6964	8.484
	43.8913	137.6970	30591.4296	14.9358	22.1419	1381.6063	61986.5302	67.7703	8.7087	8.496
L64	43.9002	134.4190	29898.9822	14.9447	22.1419	1350.3332	60583.4439	66.1570	8.7757	8.776
	44.8493	137.3712	31912.5528	15.2730	22.6168	1411.0079	64663.4840	67.6099	9.0214	9.021
L65	44.8537	135.6938	31541.3547	15.2774	22.6168	1394.5954	63911.3359	66.7844	9.0549	9.17
	45.7397	138.4150	33477.2108	15.5838	23.0601	1451.7349	67833.9053	68.1236	9.2842	9.402
L66	45.7485	134.9883	32685.9379	15.5927	23.0601	1417.4215	66230.5719	66.4371	9.3512	9.716
	45.7990	135.1395	32795.8727	15.6102	23.0854	1420.6323	66453.3296	66.5115	9.3643	9.729
L67	45.7990	135.1395	32795.8727	15.6102	23.0854	1420.6323	66453.3296	66.5115	9.3643	9.729
	45.8275	135.2247	32857.9740	15.6201	23.0997	1422.4444	66579.1636	66.5535	9.3717	9.737
L68	45.8319	133.5068	32459.1288	15.6245	23.0997	1405.1782	65770.9951	65.7080	9.4052	9.9
	46.4331	135.2832	33772.1401	15.8324	23.4005	1443.2250	68431.5119	66.5823	9.5608	10.064
L69	46.4508	128.3079	32103.3004	15.8503	23.4005	1371.9085	65049.9902	63.1493	9.6948	10.772
	46.4982	128.4408	32203.1230	15.8667	23.4242	1374.7792	65252.2579	63.2146	9.7071	10.786
L70	46.5070	124.9434	31361.6027	15.8757	23.4242	1338.8540	63547.1097	61.4933	9.7741	11.17
	47.4562	127.5266	33347.2805	16.2039	23.8991	1395.3343	67570.6311	62.7647	10.0198	11.451
L71	47.5003	109.6104	28820.8522	16.2487	23.8991	1205.9371	58398.8604	53.9469	10.3548	13.806
	47.9464	110.6510	29649.5550	16.4029	24.1223	1229.1323	60078.0369	54.4591	10.4703	13.96
L72	47.9464	110.6510	29649.5550	16.4029	24.1223	1229.1323	60078.0369	54.4591	10.4703	13.96



Section	Tip Dia. in	Area in <sup>2</sup>	I in <sup>4</sup>	r in	C in	I/C in <sup>3</sup>	J in <sup>4</sup>	It/Q in <sup>2</sup>	w in	w/t
	47.9939	110.7617	29738.6389	16.4193	24.1461	1231.6129	60258.5449	54.5136	10.4826	13.977
L73	47.9939	110.7617	29738.6389	16.4193	24.1461	1231.6129	60258.5449	54.5136	10.4826	13.977
	48.0223	110.8282	29792.1744	16.4292	24.1603	1233.1024	60367.0223	54.5463	10.4899	13.987
L74	47.9783	128.9473	34474.2908	16.3844	24.1603	1426.8959	69854.2596	63.4640	10.1549	11.606
	48.0257	129.0765	34577.9879	16.4008	24.1841	1429.7827	70064.3780	63.5275	10.1672	11.62
L75	48.0257	129.0765	34577.9879	16.4008	24.1841	1429.7827	70064.3780	63.5275	10.1672	11.62
	48.0889	129.2485	34716.4339	16.4227	24.2157	1433.6324	70344.9071	63.6122	10.1836	11.638
L76	48.1242	114.7268	30950.3691	16.4585	24.2157	1278.1109	62713.8388	56.4651	10.4516	13.486
	48.1717	114.8412	31043.0470	16.4749	24.2395	1280.6822	62901.6294	56.5214	10.4639	13.502
L77	48.1761	113.0196	30567.2476	16.4794	24.2395	1261.0531	61937.5309	55.6248	10.4974	13.767
	48.4925	113.7701	31180.2410	16.5888	24.3978	1277.9940	63179.6216	55.9942	10.5793	13.874

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A <sub>r</sub>	Adjust. Factor A <sub>r</sub>	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
ft	ft <sup>2</sup>	in					in	in	in
L1 160.33-155.33				1	1	1			
L2 155.33-150.33				1	1	1			
L3 150.33-146.83				1	1	1			
L4 146.83-146.33				1	1	1			
L5 146.33-141.33				1	1	1			
L6 141.33-136.33				1	1	1			
L7 136.33-131.33				1	1	1			
L8 131.33-126.33				1	1	1			
L9 126.33-121.33				1	1	1			
L10 121.33-120.08				1	1	1			
L11 120.08-119.83				1	1	0.952241			
L12 119.83-117.50				1	1	0.945183			
L13 117.50-117.25				1	1	1.02541			
L14 117.25-115.50				1	1	1.01916			
L15 115.50-115.25				1	1	0.929133			
L16 115.25-110.25				1	1	0.928031			
L17 110.25-104.08				1	1	0.937076			
L18 104.08-102.82				1	1	0.937686			
L19 102.82-100.50				1	1	0.947009			
L20 100.50-100.25				1	1	0.979272			
L21 100.25-				1	1	0.993012			

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor $A_r$	Adjust. Factor $A_r$	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
ft	ft <sup>2</sup>	in							
98.50									
L22 98.50-98.25				1	1	0.984646			
L23 98.25-93.25				1	1	0.987428			
L24 93.25-90.50				1	1	0.997971			
L25 90.50-90.25				1	1	1.06041			
L26 90.25-85.25				1	1	1.06188			
L27 85.25-83.50				1	1	1.07542			
L28 83.50-83.25				1	1	0.976487			
L29 83.25-80.75				1	1	0.994032			
L30 80.75-80.50				1	1	0.929408			
L31 80.50-80.25				1	1	0.988425			
L32 80.25-77.50				1	1	0.990553			
L33 77.50-77.25				1	1	1.13161			
L34 77.25-68.82				1	1	1.11718			
L35 68.82-68.29				1	1	1.10418			
L36 68.29-64.25				1	1	1.10951			
L37 64.25-64.00				1	1	1.0126			
L38 64.00-60.50				1	1	1.01625			
L39 60.50-60.25				1	1	1.00832			
L40 60.25-60.08				1	1	1.0078			
L41 60.08-59.83				1	1	0.993436			
L42 59.83-59.08				1	1	0.991096			
L43 59.08-58.83				1	1	0.989483			
L44 58.83-55.42				1	1	1.00178			
L45 55.42-55.17				1	1	1.00098			
L46 55.17-54.75				1	1	0.999648			
L47 54.75-54.50				1	1	1.05096			
L48 54.50-49.50				1	1	1.05205			
L49 49.50-44.50				1	1	1.05391			
L50 44.50-41.25				1	1	1.06127			
L51 41.25-41.00				1	1	1.05236			
L52 41.00-34.29				1	1	1.04658			
L53 34.29-33.29				1	1	0.943825			
L54 33.29-31.50				1	1	0.938715			

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor $A_r$	Adjust. Factor $A_r$	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
ft	ft <sup>2</sup>	in							
L55 31.50-31.25				1	1	0.948018			
L56 31.25-30.50				1	1	0.945874			
L57 30.50-30.25				1	1	0.963144			
L58 30.25-25.75				1	1	0.971561			
L59 25.75-25.50				1	1	1.00222			
L60 25.50-24.67				1	1	0.999882			
L61 24.67-24.42				1	1	0.933203			
L62 24.42-24.00				1	1	0.944725			
L63 24.00-23.75				1	1	0.889372			
L64 23.75-18.75				1	1	0.89954			
L65 18.75-14.08				1	1	0.900223			
L66 14.08-13.82				1	1	0.941819			
L67 13.82-13.67				1	1	0.941471			
L68 13.67-10.50				1	1	0.946248			
L69 10.50-10.25				1	1	0.961027			
L70 10.25-5.25				1	1	0.976598			
L71 5.25-2.90				1	1	0.973671			
L72 2.90-2.65				1	1	0.973198			
L73 2.65-2.50				1	1	0.972914			
L74 2.50-2.25				1	1	0.894954			
L75 2.25-1.92				1	1	0.894333			
L76 1.92-1.67				1	1	0.934985			
L77 1.67-0.00				1	1	0.947031			

**Feed Line/Linear Appurtenances - Entered As Round Or Flat**

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
*****										
Safety Line 3/8"	C	No	Surface Ar (CaAa)	160.33 - 0.00	1	1	0.000 0.000	0.3750		0.22
Climbing Pegs	C	No	Surface Ar (CaAa)	160.33 - 0.00	1	1	-0.050 0.050	0.7050		1.80
*****										
LDF7-50A(1-5/8)	B	No	Surface Ar (CaAa)	156.00 - 6.00	6	6	-0.340 -0.010	1.9800		0.82
FB-L98B-002-75000(3/8)	B	No	Surface Ar (CaAa)	156.00 - 6.00	1	1	-0.470 -0.370	0.0000		0.06
WR-VG86ST-BRD(3/4)	B	No	Surface Ar (CaAa)	156.00 - 6.00	4	2	-0.470 -0.370	0.0000		0.58
CONDUIT(2)	B	No	Surface Ar (CaAa)	156.00 - 6.00	2	2	0.000 0.100	2.0000		2.80
CONDUIT(2)	B	No	Surface Ar (CaAa)	156.00 - 6.00	1	1	-0.360 -0.360	2.0000		2.80
LDF7-50A(1-5/8)	B	No	Surface Ar (CaAa)	156.00 - 6.00	2	2	-0.470 -0.370	1.9800		0.82

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
FB-L98B-002-75000(3/8)	B	No	Surface Ar (CaAa)	156.00 - 6.00	1	1	-0.360 -0.360	0.0000		0.06
WR-VG86ST-BRD(3/4)	B	No	Surface Ar (CaAa)	156.00 - 6.00	2	2	-0.360 -0.360	0.0000		0.58
* HB158-21U6S24-xxM_TMO(1-5/8)	B	No	Surface Ar (CaAa)	146.00 - 0.00	4	4	0.200 0.360	1.9960		2.50
*** 561(1-5/8)	A	No	Surface Ar (CaAa)	132.00 - 6.00	12	6	-0.050 0.250	1.6250		1.35
*** CU12PSM9P6XXX(1-1/2)	B	No	Surface Ar (CaAa)	114.00 - 0.00	1	1	0.380 0.380	1.6000		2.35
***Flat Plate*** MP3-05	A	No	Surface Af (CaAa)	31.50 - 11.50	1	1	0.500 0.500	5.3300	14.8400	0.00
MP3-05	B	No	Surface Af (CaAa)	30.50 - 0.00	1	1	0.500 0.500	5.3300	14.8400	0.00
MP3-05	C	No	Surface Af (CaAa)	30.50 - 0.00	1	1	0.500 0.500	5.3300	14.8400	0.00
MP3-04	A	No	Surface Af (CaAa)	60.50 - 30.50	1	1	0.500 0.500	4.7800	12.7800	0.00
MP3-04	B	No	Surface Af (CaAa)	60.50 - 30.50	1	1	0.500 0.500	4.7800	12.7800	0.00
MP3-04	C	No	Surface Af (CaAa)	61.50 - 31.00	1	1	0.500 0.500	4.7800	12.7800	0.00
MP3-04	A	No	Surface Af (CaAa)	15.50 - 0.00	1	1	-0.250 -0.250	4.7800	12.7800	0.00
MP3-04	B	No	Surface Af (CaAa)	15.50 - 0.00	1	1	0.250 0.250	4.7800	12.7800	0.00
* CCI 6" x 1" Plate	A	No	Surface Af (CaAa)	30.50 - 0.00	1	1	0.000 0.000	6.0000	14.0000	0.00
CCI 6" x 1" Plate	B	No	Surface Af (CaAa)	30.50 - 0.00	1	1	0.000 0.000	6.0000	14.0000	0.00
CCI 6" x 1" Plate	C	No	Surface Af (CaAa)	30.50 - 0.00	1	1	-0.250 -0.250	6.0000	14.0000	0.00
CCI 6.5" x 1.25" Plate	A	No	Surface Af (CaAa)	60.50 - 30.50	1	1	0.000 0.000	6.5000	15.5000	0.00
CCI 6.5" x 1.25" Plate	B	No	Surface Af (CaAa)	60.50 - 30.50	1	1	0.000 0.000	6.5000	15.5000	0.00
CCI 6.5" x 1.25" Plate	C	No	Surface Af (CaAa)	60.50 - 30.50	1	1	-0.250 -0.250	6.5000	15.5000	0.00
CCI 6" x 1" Plate	A	No	Surface Af (CaAa)	100.50 - 60.50	1	1	0.000 0.000	6.0000	14.0000	0.00
CCI 6" x 1" Plate	B	No	Surface Af (CaAa)	100.50 - 60.50	1	1	0.000 0.000	6.0000	14.0000	0.00
CCI 6" x 1" Plate	C	No	Surface Af (CaAa)	100.50 - 60.50	1	1	-0.250 -0.250	6.0000	14.0000	0.00
* CCI 6.5" x 1.25" Plate	A	No	Surface Af (CaAa)	38.00 - 23.00	1	1	0.250 0.250	6.5000	15.5000	0.00
CCI 6.5" x 1.25" Plate	B	No	Surface Af (CaAa)	38.00 - 23.00	1	1	0.250 0.250	6.5000	15.5000	0.00
CCI 6.5" x 1.25" Plate	C	No	Surface Af (CaAa)	38.00 - 23.00	1	1	0.000 0.000	6.5000	15.5000	0.00
CCI 6.5" x 1.25" Plate	A	No	Surface Af (CaAa)	67.00 - 52.00	1	1	0.250 0.250	6.5000	15.5000	0.00
CCI 6.5" x 1.25" Plate	B	No	Surface Af (CaAa)	67.00 - 52.00	1	1	0.250 0.250	6.5000	15.5000	0.00
CCI 6.5" x 1.25" Plate	C	No	Surface Af (CaAa)	67.00 - 52.00	1	1	0.000 0.000	6.5000	15.5000	0.00
CCI 6.5" x 1.25" Plate	A	No	Surface Af (CaAa)	85.50 - 72.50	1	1	0.250 0.250	6.5000	15.5000	0.00
CCI 6.5" x 1.25" Plate	B	No	Surface Af (CaAa)	85.50 - 72.50	1	1	0.250 0.250	6.5000	15.5000	0.00
CCI 6.5" x 1.25" Plate	C	No	Surface Af	85.50 -	1	1	0.000	6.5000	15.5000	0.00

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
			(CaAa)	72.50			0.000			
* CCI 4.5" x 1" Plate	A	No	Surface Af (CaAa)	117.00 - 97.00	1	1	0.250 0.250	4.5000	11.0000	0.00
CCI 4.5" x 1" Plate	B	No	Surface Af (CaAa)	117.00 - 97.00	1	1	0.250 0.250	4.5000	11.0000	0.00
CCI 4.5" x 1" Plate	C	No	Surface Af (CaAa)	119.00 - 99.00	1	1	0.250 0.250	4.5000	11.0000	0.00
* CCI 6" x 1" Plate	C	No	Surface Af (CaAa)	10.50 - 0.00	1	1	0.250 0.250	6.0000	14.0000	0.00
CCI 8.5" x 1.25" Plate	C	No	Surface Af (CaAa)	45.50 - 10.50	1	1	0.250 0.250	8.5000	19.5000	0.00
CCI 8.5" x 1.25" Plate	C	No	Surface Af (CaAa)	85.00 - 60.00	1	1	0.250 0.250	8.5000	19.5000	0.00
* CCI 8.5" x 1.25" Plate	A	No	Surface Af (CaAa)	55.40 - 20.40	1	1	-0.250 -0.250	8.5000	19.5000	0.00
CCI 8.5" x 1.25" Plate	B	No	Surface Af (CaAa)	55.40 - 20.40	1	1	-0.250 -0.250	8.5000	19.5000	0.00
CCI 8.5" x 1.25" Plate	A	No	Surface Af (CaAa)	90.50 - 55.50	1	1	-0.250 -0.250	8.5000	19.5000	0.00
CCI 8.5" x 1.25" Plate	B	No	Surface Af (CaAa)	90.50 - 55.50	1	1	-0.250 -0.250	8.5000	19.5000	0.00
CCI 6" x 1" Plate	A	No	Surface Af (CaAa)	122.60 - 90.60	1	1	-0.250 -0.250	6.0000	14.0000	0.00
CCI 6" x 1" Plate	B	No	Surface Af (CaAa)	122.60 - 90.60	1	1	-0.250 -0.250	6.0000	14.0000	0.00
CCI 6" x 1" Plate	C	No	Surface Af (CaAa)	122.60 - 100.60	1	1	-0.250 -0.250	6.0000	14.0000	0.00
* CCI 1.25" x 5.875" Plate	A	No	Surface Af (CaAa)	25.50 - 0.00	1	1	0.000 0.000	1.2500	14.2500	0.00
CCI 1.25" x 5.875" Plate	B	No	Surface Af (CaAa)	25.50 - 0.00	1	1	0.000 0.000	1.2500	14.2500	0.00
CCI 1.25" x 5.875" Plate	C	No	Surface Af (CaAa)	25.50 - 0.00	1	1	0.000 0.000	1.2500	14.2500	0.00
CCI 1.25" x 5.875" Plate	C	No	Surface Af (CaAa)	25.50 - 0.00	1	1	0.000 0.000	1.2500	14.2500	0.00
* CCI 1.25" x 5.875" Plate	A	No	Surface Af (CaAa)	28.50 - 25.50	1	1	0.000 0.000	1.2500	14.2500	0.00
CCI 1.25" x 5.875" Plate	B	No	Surface Af (CaAa)	28.50 - 25.50	1	1	0.000 0.000	1.2500	14.2500	0.00
CCI 1.25" x 5.875" Plate	C	No	Surface Af (CaAa)	28.50 - 25.50	1	1	0.000 0.000	1.2500	14.2500	0.00

**Feed Line/Linear Appurtenances - Entered As Area**

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C <sub>A</sub> A <sub>A</sub> ft <sup>2</sup> /ft	Weight plf
***** *****									
AVA7-50(1-5/8)	B	No	No	Inside Pole	139.00 - 0.00	6	No Ice 1/2" Ice 1" Ice 2" Ice	0.00 0.00 0.00 0.00	0.70 0.70 0.70 0.70
561(1-5/8)	A	No	No	Inside Pole	132.00 - 0.00	6	No Ice 1/2" Ice 1" Ice 2" Ice	0.00 0.00 0.00 0.00	1.35 1.35 1.35 1.35
HB158-1-08U8-	A	No	No	Inside Pole	132.00 - 0.00	2	No Ice	0.00	1.30

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C <sub>AA</sub> ft <sup>2</sup> /ft	Weight plf
S8J18(1-5/8)							1/2" Ice	0.00	1.30
							1" Ice	0.00	1.30
							2" Ice	0.00	1.30
***									
LDF4-50A(1/2)	B	No	No	Inside Pole	101.00 - 0.00	1	No Ice	0.00	0.15
							1/2" Ice	0.00	0.15
							1" Ice	0.00	0.15
							2" Ice	0.00	0.15
***									
*****									

**Feed Line/Linear Appurtenances Section Areas**

Tower Section	Tower Elevation ft	Face	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>AA</sub> In Face ft <sup>2</sup>	C <sub>AA</sub> Out Face ft <sup>2</sup>	Weight K
L1	160.33-155.33	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	1.457	0.000	0.01
		C	0.000	0.000	0.540	0.000	0.01
L2	155.33-150.33	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	10.920	0.000	0.09
		C	0.000	0.000	0.540	0.000	0.01
L3	150.33-146.83	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	7.644	0.000	0.07
		C	0.000	0.000	0.378	0.000	0.01
L4	146.83-146.33	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	1.092	0.000	0.01
		C	0.000	0.000	0.054	0.000	0.00
L5	146.33-141.33	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	14.646	0.000	0.14
		C	0.000	0.000	0.540	0.000	0.01
L6	141.33-136.33	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	14.912	0.000	0.15
		C	0.000	0.000	0.540	0.000	0.01
L7	136.33-131.33	A	0.000	0.000	0.650	0.000	0.02
		B	0.000	0.000	14.912	0.000	0.16
		C	0.000	0.000	0.540	0.000	0.01
L8	131.33-126.33	A	0.000	0.000	4.875	0.000	0.13
		B	0.000	0.000	14.912	0.000	0.16
		C	0.000	0.000	0.540	0.000	0.01
L9	126.33-121.33	A	0.000	0.000	6.142	0.000	0.13
		B	0.000	0.000	16.179	0.000	0.16
		C	0.000	0.000	1.807	0.000	0.01
L10	121.33-120.08	A	0.000	0.000	2.469	0.000	0.03
		B	0.000	0.000	4.978	0.000	0.04
		C	0.000	0.000	1.385	0.000	0.00
L11	120.08-119.83	A	0.000	0.000	0.494	0.000	0.01
		B	0.000	0.000	0.996	0.000	0.01
		C	0.000	0.000	0.277	0.000	0.00
L12	119.83-117.50	A	0.000	0.000	4.608	0.000	0.06
		B	0.000	0.000	9.291	0.000	0.08
		C	0.000	0.000	3.710	0.000	0.00
L13	117.50-117.25	A	0.000	0.000	0.494	0.000	0.01
		B	0.000	0.000	0.996	0.000	0.01
		C	0.000	0.000	0.465	0.000	0.00
L14	117.25-115.50	A	0.000	0.000	4.581	0.000	0.05
		B	0.000	0.000	8.094	0.000	0.06
		C	0.000	0.000	3.252	0.000	0.00
L15	115.50-115.25	A	0.000	0.000	0.681	0.000	0.01
		B	0.000	0.000	1.183	0.000	0.01
		C	0.000	0.000	0.465	0.000	0.00
L16	115.25-110.25	A	0.000	0.000	13.625	0.000	0.13
		B	0.000	0.000	24.262	0.000	0.17
		C	0.000	0.000	9.290	0.000	0.01
L17	110.25-104.08	A	0.000	0.000	16.805	0.000	0.17

Tower Section	Tower Elevation	Face	A <sub>R</sub>	A <sub>F</sub>	C <sub>AA</sub> <sub>A</sub> In Face	C <sub>AA</sub> <sub>A</sub> Out Face	Weight
n	ft		ft <sup>2</sup>	ft <sup>2</sup>	ft <sup>2</sup>	ft <sup>2</sup>	K
		B	0.000	0.000	30.171	0.000	0.22
		C	0.000	0.000	11.458	0.000	0.01
L18	104.08-102.82	A	0.000	0.000	3.442	0.000	0.03
		B	0.000	0.000	6.179	0.000	0.04
		C	0.000	0.000	2.347	0.000	0.00
L19	102.82-100.50	A	0.000	0.000	6.322	0.000	0.06
		B	0.000	0.000	11.350	0.000	0.08
		C	0.000	0.000	4.211	0.000	0.00
L20	100.50-100.25	A	0.000	0.000	0.931	0.000	0.01
		B	0.000	0.000	1.473	0.000	0.01
		C	0.000	0.000	0.465	0.000	0.00
L21	100.25-98.50	A	0.000	0.000	6.519	0.000	0.05
		B	0.000	0.000	10.312	0.000	0.06
		C	0.000	0.000	2.877	0.000	0.00
L22	98.50-98.25	A	0.000	0.000	0.931	0.000	0.01
		B	0.000	0.000	1.473	0.000	0.01
		C	0.000	0.000	0.277	0.000	0.00
L23	98.25-93.25	A	0.000	0.000	15.813	0.000	0.13
		B	0.000	0.000	26.650	0.000	0.18
		C	0.000	0.000	5.540	0.000	0.01
L24	93.25-90.50	A	0.000	0.000	8.081	0.000	0.07
		B	0.000	0.000	14.042	0.000	0.10
		C	0.000	0.000	3.047	0.000	0.01
L25	90.50-90.25	A	0.000	0.000	0.848	0.000	0.01
		B	0.000	0.000	1.390	0.000	0.01
		C	0.000	0.000	0.277	0.000	0.00
L26	90.25-85.25	A	0.000	0.000	17.223	0.000	0.13
		B	0.000	0.000	28.060	0.000	0.18
		C	0.000	0.000	5.804	0.000	0.01
L27	85.25-83.50	A	0.000	0.000	7.786	0.000	0.05
		B	0.000	0.000	11.579	0.000	0.06
		C	0.000	0.000	5.915	0.000	0.00
L28	83.50-83.25	A	0.000	0.000	1.112	0.000	0.01
		B	0.000	0.000	1.654	0.000	0.01
		C	0.000	0.000	0.896	0.000	0.00
L29	83.25-80.75	A	0.000	0.000	11.123	0.000	0.07
		B	0.000	0.000	16.541	0.000	0.09
		C	0.000	0.000	8.955	0.000	0.01
L30	80.75-80.50	A	0.000	0.000	1.112	0.000	0.01
		B	0.000	0.000	1.654	0.000	0.01
		C	0.000	0.000	0.896	0.000	0.00
L31	80.50-80.25	A	0.000	0.000	1.112	0.000	0.01
		B	0.000	0.000	1.654	0.000	0.01
		C	0.000	0.000	0.896	0.000	0.00
L32	80.25-77.50	A	0.000	0.000	12.235	0.000	0.07
		B	0.000	0.000	18.196	0.000	0.10
		C	0.000	0.000	9.851	0.000	0.01
L33	77.50-77.25	A	0.000	0.000	1.112	0.000	0.01
		B	0.000	0.000	1.654	0.000	0.01
		C	0.000	0.000	0.896	0.000	0.00
L34	77.25-68.82	A	0.000	0.000	33.615	0.000	0.23
		B	0.000	0.000	51.886	0.000	0.30
		C	0.000	0.000	26.306	0.000	0.02
L35	68.82-68.29	A	0.000	0.000	1.794	0.000	0.01
		B	0.000	0.000	2.941	0.000	0.02
		C	0.000	0.000	1.336	0.000	0.00
L36	68.29-64.25	A	0.000	0.000	16.685	0.000	0.11
		B	0.000	0.000	25.443	0.000	0.14
		C	0.000	0.000	13.181	0.000	0.01
L37	64.25-64.00	A	0.000	0.000	1.119	0.000	0.01
		B	0.000	0.000	1.661	0.000	0.01
		C	0.000	0.000	0.902	0.000	0.00
L38	64.00-60.50	A	0.000	0.000	15.663	0.000	0.09
		B	0.000	0.000	23.248	0.000	0.12
		C	0.000	0.000	13.425	0.000	0.01
L39	60.50-60.25	A	0.000	0.000	1.339	0.000	0.01
		B	0.000	0.000	1.881	0.000	0.01
		C	0.000	0.000	1.122	0.000	0.00
L40	60.25-60.08	A	0.000	0.000	0.894	0.000	0.00

Tower Section	Tower Elevation	Face	A <sub>R</sub>	A <sub>F</sub>	C <sub>AA</sub> In Face	C <sub>AA</sub> Out Face	Weight
n	ft		ft <sup>2</sup>	ft <sup>2</sup>	ft <sup>2</sup>	ft <sup>2</sup>	K
		B	0.000	0.000	1.256	0.000	0.01
		C	0.000	0.000	0.749	0.000	0.00
L41	60.08-59.83	A	0.000	0.000	1.339	0.000	0.01
		B	0.000	0.000	1.881	0.000	0.01
		C	0.000	0.000	0.885	0.000	0.00
L42	59.83-59.08	A	0.000	0.000	4.016	0.000	0.02
		B	0.000	0.000	5.642	0.000	0.03
		C	0.000	0.000	2.304	0.000	0.00
L43	59.08-58.83	A	0.000	0.000	1.339	0.000	0.01
		B	0.000	0.000	1.881	0.000	0.01
		C	0.000	0.000	0.768	0.000	0.00
L44	58.83-55.42	A	0.000	0.000	18.176	0.000	0.09
		B	0.000	0.000	25.581	0.000	0.12
		C	0.000	0.000	10.493	0.000	0.01
L45	55.42-55.17	A	0.000	0.000	1.315	0.000	0.01
		B	0.000	0.000	1.857	0.000	0.01
		C	0.000	0.000	0.768	0.000	0.00
L46	55.17-54.75	A	0.000	0.000	2.231	0.000	0.01
		B	0.000	0.000	3.134	0.000	0.01
		C	0.000	0.000	1.280	0.000	0.00
L47	54.75-54.50	A	0.000	0.000	1.339	0.000	0.01
		B	0.000	0.000	1.881	0.000	0.01
		C	0.000	0.000	0.768	0.000	0.00
L48	54.50-49.50	A	0.000	0.000	24.067	0.000	0.13
		B	0.000	0.000	34.904	0.000	0.18
		C	0.000	0.000	12.648	0.000	0.01
L49	49.50-44.50	A	0.000	0.000	21.358	0.000	0.13
		B	0.000	0.000	32.195	0.000	0.18
		C	0.000	0.000	11.357	0.000	0.01
L50	44.50-41.25	A	0.000	0.000	13.883	0.000	0.09
		B	0.000	0.000	20.927	0.000	0.11
		C	0.000	0.000	11.065	0.000	0.01
L51	41.25-41.00	A	0.000	0.000	1.068	0.000	0.01
		B	0.000	0.000	1.610	0.000	0.01
		C	0.000	0.000	0.851	0.000	0.00
L52	41.00-34.29	A	0.000	0.000	32.677	0.000	0.18
		B	0.000	0.000	47.218	0.000	0.24
		C	0.000	0.000	26.860	0.000	0.01
L53	34.29-33.29	A	0.000	0.000	5.355	0.000	0.03
		B	0.000	0.000	7.522	0.000	0.04
		C	0.000	0.000	4.488	0.000	0.00
L54	33.29-31.50	A	0.000	0.000	9.591	0.000	0.05
		B	0.000	0.000	13.473	0.000	0.06
		C	0.000	0.000	8.038	0.000	0.00
L55	31.50-31.25	A	0.000	0.000	1.561	0.000	0.01
		B	0.000	0.000	1.881	0.000	0.01
		C	0.000	0.000	1.122	0.000	0.00
L56	31.25-30.50	A	0.000	0.000	4.683	0.000	0.02
		B	0.000	0.000	5.642	0.000	0.03
		C	0.000	0.000	2.968	0.000	0.00
L57	30.50-30.25	A	0.000	0.000	1.341	0.000	0.01
		B	0.000	0.000	1.883	0.000	0.01
		C	0.000	0.000	1.124	0.000	0.00
L58	30.25-25.75	A	0.000	0.000	24.523	0.000	0.12
		B	0.000	0.000	34.277	0.000	0.16
		C	0.000	0.000	20.622	0.000	0.01
L59	25.75-25.50	A	0.000	0.000	1.376	0.000	0.01
		B	0.000	0.000	1.918	0.000	0.01
		C	0.000	0.000	1.159	0.000	0.00
L60	25.50-24.67	A	0.000	0.000	4.643	0.000	0.02
		B	0.000	0.000	6.449	0.000	0.03
		C	0.000	0.000	4.094	0.000	0.00
L61	24.67-24.42	A	0.000	0.000	1.393	0.000	0.01
		B	0.000	0.000	1.935	0.000	0.01
		C	0.000	0.000	1.228	0.000	0.00
L62	24.42-24.00	A	0.000	0.000	2.322	0.000	0.01
		B	0.000	0.000	3.225	0.000	0.01
		C	0.000	0.000	2.047	0.000	0.00
L63	24.00-23.75	A	0.000	0.000	1.393	0.000	0.01



Tower Section n	Tower Elevation ft	Face	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> In Face ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup>	Weight K
		B	0.000	0.000	1.935	0.000	0.01
		C	0.000	0.000	1.228	0.000	0.00
L64	23.75-18.75	A	0.000	0.000	20.917	0.000	0.13
		B	0.000	0.000	31.754	0.000	0.18
		C	0.000	0.000	19.961	0.000	0.01
L65	18.75-14.08	A	0.000	0.000	15.464	0.000	0.13
		B	0.000	0.000	25.580	0.000	0.16
		C	0.000	0.000	17.873	0.000	0.01
L66	14.08-13.82	A	0.000	0.000	1.029	0.000	0.01
		B	0.000	0.000	1.606	0.000	0.01
		C	0.000	0.000	1.019	0.000	0.00
L67	13.82-13.67	A	0.000	0.000	0.580	0.000	0.00
		B	0.000	0.000	0.905	0.000	0.01
		C	0.000	0.000	0.574	0.000	0.00
L68	13.67-10.50	A	0.000	0.000	11.363	0.000	0.09
		B	0.000	0.000	19.115	0.000	0.11
		C	0.000	0.000	12.129	0.000	0.01
L69	10.50-10.25	A	0.000	0.000	0.745	0.000	0.01
		B	0.000	0.000	1.509	0.000	0.01
		C	0.000	0.000	0.835	0.000	0.00
L70	10.25-5.25	A	0.000	0.000	14.169	0.000	0.12
		B	0.000	0.000	28.541	0.000	0.16
		C	0.000	0.000	16.708	0.000	0.01
L71	5.25-2.90	A	0.000	0.000	4.712	0.000	0.03
		B	0.000	0.000	9.052	0.000	0.04
		C	0.000	0.000	7.853	0.000	0.00
L72	2.90-2.65	A	0.000	0.000	0.501	0.000	0.00
		B	0.000	0.000	0.963	0.000	0.00
		C	0.000	0.000	0.835	0.000	0.00
L73	2.65-2.50	A	0.000	0.000	0.301	0.000	0.00
		B	0.000	0.000	0.578	0.000	0.00
		C	0.000	0.000	0.501	0.000	0.00
L74	2.50-2.25	A	0.000	0.000	0.501	0.000	0.00
		B	0.000	0.000	0.963	0.000	0.00
		C	0.000	0.000	0.835	0.000	0.00
L75	2.25-1.92	A	0.000	0.000	0.668	0.000	0.00
		B	0.000	0.000	1.283	0.000	0.01
		C	0.000	0.000	1.113	0.000	0.00
L76	1.92-1.67	A	0.000	0.000	0.501	0.000	0.00
		B	0.000	0.000	0.963	0.000	0.00
		C	0.000	0.000	0.835	0.000	0.00
L77	1.67-0.00	A	0.000	0.000	3.342	0.000	0.02
		B	0.000	0.000	6.421	0.000	0.03
		C	0.000	0.000	5.570	0.000	0.00

**Feed Line/Linear Appurtenances Section Areas - With Ice**

Tower Section n	Tower Elevation ft	Face or Leg	Ice Thickness in	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> In Face ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup>	Weight K
L1	160.33-155.33	A	1.988	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	4.241	0.000	0.07
		C		0.000	0.000	4.513	0.000	0.07
L2	155.33-150.33	A	1.982	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	31.730	0.000	0.50
		C		0.000	0.000	4.503	0.000	0.07
L3	150.33-146.83	A	1.976	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	22.175	0.000	0.35
		C		0.000	0.000	3.144	0.000	0.05
L4	146.83-146.33	A	1.973	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	3.165	0.000	0.05
		C		0.000	0.000	0.449	0.000	0.01
L5	146.33-141.33	A	1.970	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	38.575	0.000	0.63
		C		0.000	0.000	4.479	0.000	0.07
L6	141.33-136.33	A	1.963	0.000	0.000	0.000	0.000	0.00

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> In Face ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup>	Weight K
		B		0.000	0.000	38.998	0.000	0.65
		C		0.000	0.000	4.465	0.000	0.07
L7	136.33-131.33	A	1.955	0.000	0.000	1.139	0.000	0.04
		B		0.000	0.000	38.922	0.000	0.66
		C		0.000	0.000	4.451	0.000	0.07
L8	131.33-126.33	A	1.948	0.000	0.000	8.529	0.000	0.26
		B		0.000	0.000	38.844	0.000	0.66
		C		0.000	0.000	4.436	0.000	0.07
L9	126.33-121.33	A	1.940	0.000	0.000	10.278	0.000	0.28
		B		0.000	0.000	40.522	0.000	0.68
		C		0.000	0.000	6.179	0.000	0.09
L10	121.33-120.08	A	1.935	0.000	0.000	3.862	0.000	0.09
		B		0.000	0.000	11.412	0.000	0.18
		C		0.000	0.000	2.837	0.000	0.04
L11	120.08-119.83	A	1.934	0.000	0.000	0.772	0.000	0.02
		B		0.000	0.000	2.282	0.000	0.04
		C		0.000	0.000	0.567	0.000	0.01
L12	119.83-117.50	A	1.932	0.000	0.000	7.205	0.000	0.16
		B		0.000	0.000	21.281	0.000	0.34
		C		0.000	0.000	6.994	0.000	0.09
L13	117.50-117.25	A	1.930	0.000	0.000	0.772	0.000	0.02
		B		0.000	0.000	2.279	0.000	0.04
		C		0.000	0.000	0.850	0.000	0.01
L14	117.25-115.50	A	1.928	0.000	0.000	7.105	0.000	0.14
		B		0.000	0.000	17.652	0.000	0.28
		C		0.000	0.000	5.951	0.000	0.08
L15	115.50-115.25	A	1.927	0.000	0.000	1.055	0.000	0.02
		B		0.000	0.000	2.561	0.000	0.04
		C		0.000	0.000	0.850	0.000	0.01
L16	115.25-110.25	A	1.922	0.000	0.000	21.091	0.000	0.41
		B		0.000	0.000	53.209	0.000	0.84
		C		0.000	0.000	16.979	0.000	0.22
L17	110.25-104.08	A	1.912	0.000	0.000	25.975	0.000	0.50
		B		0.000	0.000	66.306	0.000	1.04
		C		0.000	0.000	20.894	0.000	0.26
L18	104.08-102.82	A	1.906	0.000	0.000	5.320	0.000	0.10
		B		0.000	0.000	13.579	0.000	0.21
		C		0.000	0.000	4.279	0.000	0.05
L19	102.82-100.50	A	1.902	0.000	0.000	9.756	0.000	0.19
		B		0.000	0.000	24.881	0.000	0.39
		C		0.000	0.000	7.703	0.000	0.10
L20	100.50-100.25	A	1.900	0.000	0.000	1.396	0.000	0.02
		B		0.000	0.000	3.025	0.000	0.05
		C		0.000	0.000	0.845	0.000	0.01
L21	100.25-98.50	A	1.898	0.000	0.000	9.769	0.000	0.17
		B		0.000	0.000	21.162	0.000	0.32
		C		0.000	0.000	5.344	0.000	0.07
L22	98.50-98.25	A	1.896	0.000	0.000	1.395	0.000	0.02
		B		0.000	0.000	3.022	0.000	0.05
		C		0.000	0.000	0.561	0.000	0.01
L23	98.25-93.25	A	1.891	0.000	0.000	23.650	0.000	0.43
		B		0.000	0.000	56.130	0.000	0.86
		C		0.000	0.000	11.213	0.000	0.14
L24	93.25-90.50	A	1.883	0.000	0.000	12.080	0.000	0.23
		B		0.000	0.000	29.900	0.000	0.46
		C		0.000	0.000	6.154	0.000	0.08
L25	90.50-90.25	A	1.880	0.000	0.000	1.214	0.000	0.02
		B		0.000	0.000	2.833	0.000	0.04
		C		0.000	0.000	0.559	0.000	0.01
L26	90.25-85.25	A	1.875	0.000	0.000	24.583	0.000	0.44
		B		0.000	0.000	56.894	0.000	0.86
		C		0.000	0.000	11.477	0.000	0.15
L27	85.25-83.50	A	1.867	0.000	0.000	10.679	0.000	0.18
		B		0.000	0.000	21.962	0.000	0.33
		C		0.000	0.000	8.775	0.000	0.11
L28	83.50-83.25	A	1.865	0.000	0.000	1.525	0.000	0.03
		B		0.000	0.000	3.136	0.000	0.05
		C		0.000	0.000	1.317	0.000	0.02
L29	83.25-80.75	A	1.862	0.000	0.000	15.246	0.000	0.26

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> In Face ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup>	Weight K
		B		0.000	0.000	31.337	0.000	0.47
		C		0.000	0.000	13.162	0.000	0.16
L30	80.75-80.50	A	1.859	0.000	0.000	1.524	0.000	0.03
		B		0.000	0.000	3.132	0.000	0.05
		C		0.000	0.000	1.316	0.000	0.02
L31	80.50-80.25	A	1.858	0.000	0.000	1.524	0.000	0.03
		B		0.000	0.000	3.131	0.000	0.05
		C		0.000	0.000	1.315	0.000	0.02
L32	80.25-77.50	A	1.855	0.000	0.000	16.756	0.000	0.28
		B		0.000	0.000	34.415	0.000	0.51
		C		0.000	0.000	14.461	0.000	0.17
L33	77.50-77.25	A	1.851	0.000	0.000	1.523	0.000	0.03
		B		0.000	0.000	3.126	0.000	0.05
		C		0.000	0.000	1.314	0.000	0.02
L34	77.25-68.82	A	1.840	0.000	0.000	46.672	0.000	0.79
		B		0.000	0.000	100.559	0.000	1.50
		C		0.000	0.000	39.621	0.000	0.47
L35	68.82-68.29	A	1.829	0.000	0.000	2.556	0.000	0.04
		B		0.000	0.000	5.937	0.000	0.09
		C		0.000	0.000	2.114	0.000	0.02
L36	68.29-64.25	A	1.823	0.000	0.000	23.088	0.000	0.38
		B		0.000	0.000	48.772	0.000	0.72
		C		0.000	0.000	19.699	0.000	0.23
L37	64.25-64.00	A	1.817	0.000	0.000	1.532	0.000	0.02
		B		0.000	0.000	3.118	0.000	0.05
		C		0.000	0.000	1.322	0.000	0.02
L38	64.00-60.50	A	1.811	0.000	0.000	21.435	0.000	0.35
		B		0.000	0.000	43.599	0.000	0.63
		C		0.000	0.000	19.654	0.000	0.23
L39	60.50-60.25	A	1.806	0.000	0.000	1.840	0.000	0.03
		B		0.000	0.000	3.421	0.000	0.05
		C		0.000	0.000	1.630	0.000	0.02
L40	60.25-60.08	A	1.805	0.000	0.000	1.229	0.000	0.02
		B		0.000	0.000	2.285	0.000	0.03
		C		0.000	0.000	1.089	0.000	0.01
L41	60.08-59.83	A	1.805	0.000	0.000	1.840	0.000	0.03
		B		0.000	0.000	3.420	0.000	0.05
		C		0.000	0.000	1.333	0.000	0.02
L42	59.83-59.08	A	1.803	0.000	0.000	5.519	0.000	0.09
		B		0.000	0.000	10.256	0.000	0.15
		C		0.000	0.000	3.556	0.000	0.04
L43	59.08-58.83	A	1.802	0.000	0.000	1.839	0.000	0.03
		B		0.000	0.000	3.417	0.000	0.05
		C		0.000	0.000	1.185	0.000	0.01
L44	58.83-55.42	A	1.796	0.000	0.000	24.968	0.000	0.39
		B		0.000	0.000	46.493	0.000	0.66
		C		0.000	0.000	16.175	0.000	0.20
L45	55.42-55.17	A	1.790	0.000	0.000	1.807	0.000	0.03
		B		0.000	0.000	3.379	0.000	0.05
		C		0.000	0.000	1.182	0.000	0.01
L46	55.17-54.75	A	1.789	0.000	0.000	3.060	0.000	0.05
		B		0.000	0.000	5.680	0.000	0.08
		C		0.000	0.000	1.970	0.000	0.02
L47	54.75-54.50	A	1.788	0.000	0.000	1.836	0.000	0.03
		B		0.000	0.000	3.407	0.000	0.05
		C		0.000	0.000	1.182	0.000	0.01
L48	54.50-49.50	A	1.779	0.000	0.000	33.408	0.000	0.52
		B		0.000	0.000	64.740	0.000	0.92
		C		0.000	0.000	20.326	0.000	0.24
L49	49.50-44.50	A	1.761	0.000	0.000	30.062	0.000	0.48
		B		0.000	0.000	61.210	0.000	0.87
		C		0.000	0.000	18.754	0.000	0.22
L50	44.50-41.25	A	1.745	0.000	0.000	19.496	0.000	0.31
		B		0.000	0.000	39.635	0.000	0.56
		C		0.000	0.000	16.737	0.000	0.19
L51	41.25-41.00	A	1.738	0.000	0.000	1.498	0.000	0.02
		B		0.000	0.000	3.044	0.000	0.04
		C		0.000	0.000	1.286	0.000	0.01
L52	41.00-34.29	A	1.722	0.000	0.000	44.947	0.000	0.69

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> In Face ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup>	Weight K
		B		0.000	0.000	86.209	0.000	1.20
		C		0.000	0.000	39.229	0.000	0.43
L53	34.29-33.29	A	1.704	0.000	0.000	7.283	0.000	0.11
		B		0.000	0.000	13.434	0.000	0.19
		C		0.000	0.000	6.431	0.000	0.07
L54	33.29-31.50	A	1.697	0.000	0.000	12.998	0.000	0.19
		B		0.000	0.000	23.919	0.000	0.33
		C		0.000	0.000	11.465	0.000	0.13
L55	31.50-31.25	A	1.691	0.000	0.000	2.120	0.000	0.03
		B		0.000	0.000	3.335	0.000	0.05
		C		0.000	0.000	1.599	0.000	0.02
L56	31.25-30.50	A	1.689	0.000	0.000	6.357	0.000	0.09
		B		0.000	0.000	9.998	0.000	0.14
		C		0.000	0.000	4.227	0.000	0.05
L57	30.50-30.25	A	1.686	0.000	0.000	1.814	0.000	0.03
		B		0.000	0.000	3.333	0.000	0.05
		C		0.000	0.000	1.599	0.000	0.02
L58	30.25-25.75	A	1.672	0.000	0.000	33.528	0.000	0.52
		B		0.000	0.000	60.741	0.000	0.85
		C		0.000	0.000	29.658	0.000	0.35
L59	25.75-25.50	A	1.658	0.000	0.000	1.892	0.000	0.03
		B		0.000	0.000	3.396	0.000	0.05
		C		0.000	0.000	1.676	0.000	0.02
L60	25.50-24.67	A	1.654	0.000	0.000	6.470	0.000	0.10
		B		0.000	0.000	11.478	0.000	0.16
		C		0.000	0.000	6.200	0.000	0.08
L61	24.67-24.42	A	1.650	0.000	0.000	1.940	0.000	0.03
		B		0.000	0.000	3.441	0.000	0.05
		C		0.000	0.000	1.859	0.000	0.02
L62	24.42-24.00	A	1.648	0.000	0.000	3.233	0.000	0.05
		B		0.000	0.000	5.732	0.000	0.08
		C		0.000	0.000	3.097	0.000	0.04
L63	24.00-23.75	A	1.646	0.000	0.000	1.939	0.000	0.03
		B		0.000	0.000	3.437	0.000	0.05
		C		0.000	0.000	1.857	0.000	0.02
L64	23.75-18.75	A	1.627	0.000	0.000	30.296	0.000	0.50
		B		0.000	0.000	60.066	0.000	0.85
		C		0.000	0.000	31.505	0.000	0.40
L65	18.75-14.08	A	1.585	0.000	0.000	23.324	0.000	0.41
		B		0.000	0.000	50.714	0.000	0.73
		C		0.000	0.000	28.231	0.000	0.36
L66	14.08-13.82	A	1.560	0.000	0.000	1.527	0.000	0.03
		B		0.000	0.000	3.074	0.000	0.04
		C		0.000	0.000	1.600	0.000	0.02
L67	13.82-13.67	A	1.557	0.000	0.000	0.861	0.000	0.01
		B		0.000	0.000	1.732	0.000	0.02
		C		0.000	0.000	0.902	0.000	0.01
L68	13.67-10.50	A	1.537	0.000	0.000	16.909	0.000	0.29
		B		0.000	0.000	36.382	0.000	0.51
		C		0.000	0.000	18.945	0.000	0.23
L69	10.50-10.25	A	1.514	0.000	0.000	1.125	0.000	0.02
		B		0.000	0.000	2.854	0.000	0.04
		C		0.000	0.000	1.330	0.000	0.02
L70	10.25-5.25	A	1.471	0.000	0.000	21.142	0.000	0.37
		B		0.000	0.000	52.363	0.000	0.71
		C		0.000	0.000	26.310	0.000	0.33
L71	5.25-2.90	A	1.379	0.000	0.000	6.647	0.000	0.10
		B		0.000	0.000	13.562	0.000	0.18
		C		0.000	0.000	12.085	0.000	0.14
L72	2.90-2.65	A	1.327	0.000	0.000	0.700	0.000	0.01
		B		0.000	0.000	1.427	0.000	0.02
		C		0.000	0.000	1.269	0.000	0.01
L73	2.65-2.50	A	1.317	0.000	0.000	0.419	0.000	0.01
		B		0.000	0.000	0.854	0.000	0.01
		C		0.000	0.000	0.759	0.000	0.01
L74	2.50-2.25	A	1.307	0.000	0.000	0.697	0.000	0.01
		B		0.000	0.000	1.421	0.000	0.02
		C		0.000	0.000	1.262	0.000	0.01
L75	2.25-1.92	A	1.290	0.000	0.000	0.925	0.000	0.01

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> In Face ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup>	Weight K
L76	1.92-1.67	B	1.270	0.000	0.000	1.885	0.000	0.02
		C		0.000	0.000	1.674	0.000	0.02
		A		0.000	0.000	0.692	0.000	0.01
		B		0.000	0.000	1.410	0.000	0.02
L77	1.67-0.00	C	1.177	0.000	0.000	1.250	0.000	0.01
		A		0.000	0.000	4.519	0.000	0.06
		B		0.000	0.000	9.205	0.000	0.11
		C		0.000	0.000	8.133	0.000	0.08

### Feed Line Center of Pressure

Section	Elevation ft	CP <sub>x</sub> in	CP <sub>z</sub> in	CP <sub>x</sub> Ice in	CP <sub>z</sub> Ice in
L1	160.33-155.33	1.2374	-0.9217	0.8208	0.3394
L2	155.33-150.33	3.5977	-4.5607	2.0599	-3.0332
L3	150.33-146.83	3.5977	-4.5607	2.0606	-3.0336
L4	146.83-146.33	4.3734	-5.5369	2.6321	-3.8870
L5	146.33-141.33	4.8260	-3.6988	3.4128	-3.3204
L6	141.33-136.33	5.0029	-3.7275	3.5681	-3.3889
L7	136.33-131.33	4.7145	-3.9250	3.4538	-3.5570
L8	131.33-126.33	2.6403	-4.5483	2.2760	-4.0210
L9	126.33-121.33	2.4119	-4.1492	2.2137	-3.9076
L10	121.33-120.08	1.8675	-3.2099	1.9383	-3.4199
L11	120.08-119.83	1.8756	-3.2232	1.9474	-3.4355
L12	119.83-117.50	1.1954	-2.6793	1.4878	-3.0697
L13	117.50-117.25	0.8461	-2.4045	1.2480	-2.8850
L14	117.25-115.50	1.4643	-2.6354	1.6620	-3.0206
L15	115.50-115.25	1.5616	-2.6806	1.7335	-3.0559
L16	115.25-110.25	1.7060	-2.6469	1.9569	-2.9881
L17	110.25-104.08	1.7918	-2.6906	2.0819	-3.0404
L18	104.08-102.82	1.8002	-2.7027	2.0933	-3.0567
L19	102.82-100.50	1.7717	-2.7659	2.0848	-3.1132
L20	100.50-100.25	1.5739	-3.4258	1.9241	-3.5454
L21	100.25-98.50	1.8192	-3.6380	2.1173	-3.7134
L22	98.50-98.25	2.4552	-4.1738	2.6054	-4.1225
L23	98.25-93.25	2.0557	-4.1538	2.3371	-4.1254
L24	93.25-90.50	1.9851	-4.1902	2.3103	-4.1826
L25	90.50-90.25	1.3415	-4.2888	1.9755	-4.2523
L26	90.25-85.25	1.4009	-4.2581	2.0222	-4.2603
L27	85.25-83.50	0.8975	-2.2025	1.5561	-2.8821
L28	83.50-83.25	0.7156	-2.0679	1.4264	-2.7881
L29	83.25-80.75	0.7197	-2.0795	1.4351	-2.8054
L30	80.75-80.50	0.7241	-2.0919	1.4440	-2.8233
L31	80.50-80.25	0.7247	-2.0936	1.4455	-2.8261
L32	80.25-77.50	0.7292	-2.1063	1.4549	-2.8449
L33	77.50-77.25	0.7333	-2.1178	1.4638	-2.8629
L34	77.25-68.82	0.3459	-2.5199	1.2693	-3.1964
L35	68.82-68.29	-0.2673	-3.1077	0.9593	-3.6187
L36	68.29-64.25	0.4877	-2.4303	1.3691	-3.1371
L37	64.25-64.00	0.7836	-2.1818	1.5476	-2.9522
L38	64.00-60.50	0.4663	-2.2471	1.2825	-3.0084
L39	60.50-60.25	0.7674	-1.9652	1.4510	-2.7049
L40	60.25-60.08	0.7680	-1.9668	1.4522	-2.7072
L41	60.08-59.83	1.6245	-2.6177	2.0986	-3.2065
L42	59.83-59.08	2.0842	-2.9689	2.4408	-3.4733
L43	59.08-58.83	2.0885	-2.9749	2.4460	-3.4806
L44	58.83-55.42	2.1420	-2.9843	2.4935	-3.5000
L45	55.42-55.17	2.2245	-2.9859	2.5626	-3.5147
L46	55.17-54.75	2.1207	-3.0190	2.4865	-3.5371
L47	54.75-54.50	2.1226	-3.0216	2.4894	-3.5410
L48	54.50-49.50	1.7957	-3.5513	2.2983	-3.9466
L49	49.50-44.50	1.0808	-3.9726	1.8545	-4.2486
L50	44.50-41.25	-0.1651	-2.9713	0.9643	-3.5598
L51	41.25-41.00	-0.1665	-2.9913	0.9687	-3.5829

Section	Elevation	CP <sub>x</sub>	CP <sub>z</sub>	CP <sub>x</sub>	CP <sub>z</sub>
	ft	in	in	Ice in	Ice in
L52	41.00-34.29	0.4334	-2.4931	1.3270	-3.2298
L53	34.29-33.29	0.8336	-2.1313	1.5744	-2.9426
L54	33.29-31.50	0.8380	-2.1424	1.5770	-2.9528
L55	31.50-31.25	1.6254	-2.9243	2.2158	-3.5855
L56	31.25-30.50	2.3703	-2.8267	2.8724	-3.5165
L57	30.50-30.25	0.7646	-2.1241	1.5374	-2.9510
L58	30.25-25.75	0.7603	-2.1120	1.5214	-2.9224
L59	25.75-25.50	0.7606	-2.1122	1.5151	-2.9125
L60	25.50-24.67	0.7481	-1.8544	1.4715	-2.4840
L61	24.67-24.42	0.7493	-1.8574	1.4736	-2.4882
L62	24.42-24.00	0.7501	-1.8594	1.4750	-2.4909
L63	24.00-23.75	0.7511	-1.8618	1.4765	-2.4939
L64	23.75-18.75	0.4179	-2.3074	1.3643	-2.8884
L65	18.75-14.08	1.4262	-1.5896	2.1329	-2.4262
L66	14.08-13.82	1.3493	-0.8309	2.0435	-1.7976
L67	13.82-13.67	1.3501	-0.8314	2.0445	-1.7983
L68	13.67-10.50	1.0278	-0.4819	1.8073	-1.5439
L69	10.50-10.25	0.9107	-0.0927	1.7391	-1.2889
L70	10.25-5.25	0.8360	0.4125	1.6682	-0.6638
L71	5.25-2.90	0.2814	3.9292	1.0254	4.6578
L72	2.90-2.65	0.2820	3.9417	1.0167	4.6525
L73	2.65-2.50	0.2821	3.9436	1.0148	4.6508
L74	2.50-2.25	0.2823	3.9467	1.0131	4.6498
L75	2.25-1.92	0.2824	3.9495	1.0097	4.6460
L76	1.92-1.67	0.2825	3.9513	1.0056	4.6403
L77	1.67-0.00	0.2829	3.9604	0.9850	4.6079

Note: For pole sections, center of pressure calculations do not consider feed line shielding.

### Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L1	2	Safety Line 3/8"	155.33 - 160.33	1.0000	1.0000
L1	3	Climbing Pegs	155.33 - 160.33	1.0000	1.0000
L1	5	LDF7-50A(1-5/8)	155.33 - 156.00	1.0000	1.0000
L1	6	FB-L98B-002-75000(3/8)	155.33 - 156.00	1.0000	1.0000
L1	7	WR-VG86ST-BRD(3/4)	155.33 - 156.00	1.0000	1.0000
L1	8	CONDUIT(2)	155.33 - 156.00	1.0000	1.0000
L1	9	CONDUIT(2)	155.33 - 156.00	1.0000	1.0000
L1	10	LDF7-50A(1-5/8)	155.33 - 156.00	1.0000	1.0000
L1	11	FB-L98B-002-75000(3/8)	155.33 - 156.00	1.0000	1.0000
L1	12	WR-VG86ST-BRD(3/4)	155.33 - 156.00	1.0000	1.0000
L2	2	Safety Line 3/8"	150.33 - 155.33	1.0000	1.0000
L2	3	Climbing Pegs	150.33 - 155.33	1.0000	1.0000
L2	5	LDF7-50A(1-5/8)	150.33 - 155.33	1.0000	1.0000
L2	6	FB-L98B-002-75000(3/8)	150.33 - 155.33	1.0000	1.0000
L2	7	WR-VG86ST-BRD(3/4)	150.33 - 155.33	1.0000	1.0000
L2	8	CONDUIT(2)	150.33 - 155.33	1.0000	1.0000
L2	9	CONDUIT(2)	150.33 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L2	10	LDF7-50A(1-5/8)	155.33 150.33 - 155.33	1.0000	1.0000
L2	11	FB-L98B-002-75000(3/8)	150.33 - 155.33	1.0000	1.0000
L2	12	WR-VG86ST-BRD(3/4)	150.33 - 155.33	1.0000	1.0000
L3	2	Safety Line 3/8"	146.83 - 150.33	1.0000	1.0000
L3	3	Climbing Pegs	146.83 - 150.33	1.0000	1.0000
L3	5	LDF7-50A(1-5/8)	146.83 - 150.33	1.0000	1.0000
L3	6	FB-L98B-002-75000(3/8)	146.83 - 150.33	1.0000	1.0000
L3	7	WR-VG86ST-BRD(3/4)	146.83 - 150.33	1.0000	1.0000
L3	8	CONDUIT(2)	146.83 - 150.33	1.0000	1.0000
L3	9	CONDUIT(2)	146.83 - 150.33	1.0000	1.0000
L3	10	LDF7-50A(1-5/8)	146.83 - 150.33	1.0000	1.0000
L3	11	FB-L98B-002-75000(3/8)	146.83 - 150.33	1.0000	1.0000
L3	12	WR-VG86ST-BRD(3/4)	146.83 - 150.33	1.0000	1.0000
L4	2	Safety Line 3/8"	146.33 - 146.83	1.0000	1.0000
L4	3	Climbing Pegs	146.33 - 146.83	1.0000	1.0000
L4	5	LDF7-50A(1-5/8)	146.33 - 146.83	1.0000	1.0000
L4	6	FB-L98B-002-75000(3/8)	146.33 - 146.83	1.0000	1.0000
L4	7	WR-VG86ST-BRD(3/4)	146.33 - 146.83	1.0000	1.0000
L4	8	CONDUIT(2)	146.33 - 146.83	1.0000	1.0000
L4	9	CONDUIT(2)	146.33 - 146.83	1.0000	1.0000
L4	10	LDF7-50A(1-5/8)	146.33 - 146.83	1.0000	1.0000
L4	11	FB-L98B-002-75000(3/8)	146.33 - 146.83	1.0000	1.0000
L4	12	WR-VG86ST-BRD(3/4)	146.33 - 146.83	1.0000	1.0000
L5	2	Safety Line 3/8"	141.33 - 146.33	1.0000	1.0000
L5	3	Climbing Pegs	141.33 - 146.33	1.0000	1.0000
L5	5	LDF7-50A(1-5/8)	141.33 - 146.33	1.0000	1.0000
L5	6	FB-L98B-002-75000(3/8)	141.33 - 146.33	1.0000	1.0000
L5	7	WR-VG86ST-BRD(3/4)	141.33 - 146.33	1.0000	1.0000
L5	8	CONDUIT(2)	141.33 - 146.33	1.0000	1.0000
L5	9	CONDUIT(2)	141.33 - 146.33	1.0000	1.0000
L5	10	LDF7-50A(1-5/8)	141.33 - 146.33	1.0000	1.0000
L5	11	FB-L98B-002-75000(3/8)	141.33 - 146.33	1.0000	1.0000
L5	12	WR-VG86ST-BRD(3/4)	141.33 - 146.33	1.0000	1.0000
L5	17	HB158-21U6S24-xxM_TMO(1-5/8)	141.33 - 146.00	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L6	2	Safety Line 3/8"	136.33 - 141.33	1.0000	1.0000
L6	3	Climbing Pegs	136.33 - 141.33	1.0000	1.0000
L6	5	LDF7-50A(1-5/8)	136.33 - 141.33	1.0000	1.0000
L6	6	FB-L98B-002-75000(3/8)	136.33 - 141.33	1.0000	1.0000
L6	7	WR-VG86ST-BRD(3/4)	136.33 - 141.33	1.0000	1.0000
L6	8	CONDUIT(2)	136.33 - 141.33	1.0000	1.0000
L6	9	CONDUIT(2)	136.33 - 141.33	1.0000	1.0000
L6	10	LDF7-50A(1-5/8)	136.33 - 141.33	1.0000	1.0000
L6	11	FB-L98B-002-75000(3/8)	136.33 - 141.33	1.0000	1.0000
L6	12	WR-VG86ST-BRD(3/4)	136.33 - 141.33	1.0000	1.0000
L6	17	HB158-21U6S24- xxM_TMO(1-5/8)	136.33 - 141.33	1.0000	1.0000
L7	2	Safety Line 3/8"	131.33 - 136.33	1.0000	1.0000
L7	3	Climbing Pegs	131.33 - 136.33	1.0000	1.0000
L7	5	LDF7-50A(1-5/8)	131.33 - 136.33	1.0000	1.0000
L7	6	FB-L98B-002-75000(3/8)	131.33 - 136.33	1.0000	1.0000
L7	7	WR-VG86ST-BRD(3/4)	131.33 - 136.33	1.0000	1.0000
L7	8	CONDUIT(2)	131.33 - 136.33	1.0000	1.0000
L7	9	CONDUIT(2)	131.33 - 136.33	1.0000	1.0000
L7	10	LDF7-50A(1-5/8)	131.33 - 136.33	1.0000	1.0000
L7	11	FB-L98B-002-75000(3/8)	131.33 - 136.33	1.0000	1.0000
L7	12	WR-VG86ST-BRD(3/4)	131.33 - 136.33	1.0000	1.0000
L7	17	HB158-21U6S24- xxM_TMO(1-5/8)	131.33 - 136.33	1.0000	1.0000
L7	21	561(1-5/8)	131.33 - 132.00	1.0000	1.0000
L8	2	Safety Line 3/8"	126.33 - 131.33	1.0000	1.0000
L8	3	Climbing Pegs	126.33 - 131.33	1.0000	1.0000
L8	5	LDF7-50A(1-5/8)	126.33 - 131.33	1.0000	1.0000
L8	6	FB-L98B-002-75000(3/8)	126.33 - 131.33	1.0000	1.0000
L8	7	WR-VG86ST-BRD(3/4)	126.33 - 131.33	1.0000	1.0000
L8	8	CONDUIT(2)	126.33 - 131.33	1.0000	1.0000
L8	9	CONDUIT(2)	126.33 - 131.33	1.0000	1.0000
L8	10	LDF7-50A(1-5/8)	126.33 - 131.33	1.0000	1.0000
L8	11	FB-L98B-002-75000(3/8)	126.33 - 131.33	1.0000	1.0000
L8	12	WR-VG86ST-BRD(3/4)	126.33 - 131.33	1.0000	1.0000
L8	17	HB158-21U6S24- xxM_TMO(1-5/8)	126.33 - 131.33	1.0000	1.0000
L8	21	561(1-5/8)	126.33 -	1.0000	1.0000



Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L9	2	Safety Line 3/8"	131.33 121.33 - 126.33	1.0000	1.0000
L9	3	Climbing Pegs	121.33 - 126.33	1.0000	1.0000
L9	5	LDF7-50A(1-5/8)	121.33 - 126.33	1.0000	1.0000
L9	6	FB-L98B-002-75000(3/8)	121.33 - 126.33	1.0000	1.0000
L9	7	WR-VG86ST-BRD(3/4)	121.33 - 126.33	1.0000	1.0000
L9	8	CONDUIT(2)	121.33 - 126.33	1.0000	1.0000
L9	9	CONDUIT(2)	121.33 - 126.33	1.0000	1.0000
L9	10	LDF7-50A(1-5/8)	121.33 - 126.33	1.0000	1.0000
L9	11	FB-L98B-002-75000(3/8)	121.33 - 126.33	1.0000	1.0000
L9	12	WR-VG86ST-BRD(3/4)	121.33 - 126.33	1.0000	1.0000
L9	17	HB158-21U6S24- xxM_TMO(1-5/8)	121.33 - 126.33	1.0000	1.0000
L9	21	561(1-5/8)	121.33 - 126.33	1.0000	1.0000
L9	71	CCI 6" x 1" Plate	121.33 - 122.60	1.0000	1.0000
L9	72	CCI 6" x 1" Plate	121.33 - 122.60	1.0000	1.0000
L9	73	CCI 6" x 1" Plate	121.33 - 122.60	1.0000	1.0000
L10	2	Safety Line 3/8"	120.08 - 121.33	1.0000	1.0000
L10	3	Climbing Pegs	120.08 - 121.33	1.0000	1.0000
L10	5	LDF7-50A(1-5/8)	120.08 - 121.33	1.0000	1.0000
L10	6	FB-L98B-002-75000(3/8)	120.08 - 121.33	1.0000	1.0000
L10	7	WR-VG86ST-BRD(3/4)	120.08 - 121.33	1.0000	1.0000
L10	8	CONDUIT(2)	120.08 - 121.33	1.0000	1.0000
L10	9	CONDUIT(2)	120.08 - 121.33	1.0000	1.0000
L10	10	LDF7-50A(1-5/8)	120.08 - 121.33	1.0000	1.0000
L10	11	FB-L98B-002-75000(3/8)	120.08 - 121.33	1.0000	1.0000
L10	12	WR-VG86ST-BRD(3/4)	120.08 - 121.33	1.0000	1.0000
L10	17	HB158-21U6S24- xxM_TMO(1-5/8)	120.08 - 121.33	1.0000	1.0000
L10	21	561(1-5/8)	120.08 - 121.33	1.0000	1.0000
L10	71	CCI 6" x 1" Plate	120.08 - 121.33	1.0000	1.0000
L10	72	CCI 6" x 1" Plate	120.08 - 121.33	1.0000	1.0000
L10	73	CCI 6" x 1" Plate	120.08 - 121.33	1.0000	1.0000
L11	2	Safety Line 3/8"	119.83 - 120.08	1.0000	1.0000
L11	3	Climbing Pegs	119.83 - 120.08	1.0000	1.0000
L11	5	LDF7-50A(1-5/8)	119.83 - 120.08	1.0000	1.0000
L11	6	FB-L98B-002-75000(3/8)	119.83 - 120.08	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L11	7	WR-VG86ST-BRD(3/4)	119.83 - 120.08	1.0000	1.0000
L11	8	CONDUIT(2)	119.83 - 120.08	1.0000	1.0000
L11	9	CONDUIT(2)	119.83 - 120.08	1.0000	1.0000
L11	10	LDF7-50A(1-5/8)	119.83 - 120.08	1.0000	1.0000
L11	11	FB-L98B-002-75000(3/8)	119.83 - 120.08	1.0000	1.0000
L11	12	WR-VG86ST-BRD(3/4)	119.83 - 120.08	1.0000	1.0000
L11	17	HB158-21U6S24-xxM_TMO(1-5/8)	119.83 - 120.08	1.0000	1.0000
L11	21	561(1-5/8)	119.83 - 120.08	1.0000	1.0000
L11	71	CCI 6" x 1" Plate	119.83 - 120.08	1.0000	1.0000
L11	72	CCI 6" x 1" Plate	119.83 - 120.08	1.0000	1.0000
L11	73	CCI 6" x 1" Plate	119.83 - 120.08	1.0000	1.0000
L12	2	Safety Line 3/8"	117.50 - 119.83	1.0000	1.0000
L12	3	Climbing Pegs	117.50 - 119.83	1.0000	1.0000
L12	5	LDF7-50A(1-5/8)	117.50 - 119.83	1.0000	1.0000
L12	6	FB-L98B-002-75000(3/8)	117.50 - 119.83	1.0000	1.0000
L12	7	WR-VG86ST-BRD(3/4)	117.50 - 119.83	1.0000	1.0000
L12	8	CONDUIT(2)	117.50 - 119.83	1.0000	1.0000
L12	9	CONDUIT(2)	117.50 - 119.83	1.0000	1.0000
L12	10	LDF7-50A(1-5/8)	117.50 - 119.83	1.0000	1.0000
L12	11	FB-L98B-002-75000(3/8)	117.50 - 119.83	1.0000	1.0000
L12	12	WR-VG86ST-BRD(3/4)	117.50 - 119.83	1.0000	1.0000
L12	17	HB158-21U6S24-xxM_TMO(1-5/8)	117.50 - 119.83	1.0000	1.0000
L12	21	561(1-5/8)	117.50 - 119.83	1.0000	1.0000
L12	61	CCI 4.5" x 1" Plate	117.50 - 119.00	1.0000	1.0000
L12	71	CCI 6" x 1" Plate	117.50 - 119.83	1.0000	1.0000
L12	72	CCI 6" x 1" Plate	117.50 - 119.83	1.0000	1.0000
L12	73	CCI 6" x 1" Plate	117.50 - 119.83	1.0000	1.0000
L13	2	Safety Line 3/8"	117.25 - 117.50	1.0000	1.0000
L13	3	Climbing Pegs	117.25 - 117.50	1.0000	1.0000
L13	5	LDF7-50A(1-5/8)	117.25 - 117.50	1.0000	1.0000
L13	6	FB-L98B-002-75000(3/8)	117.25 - 117.50	1.0000	1.0000
L13	7	WR-VG86ST-BRD(3/4)	117.25 - 117.50	1.0000	1.0000
L13	8	CONDUIT(2)	117.25 - 117.50	1.0000	1.0000
L13	9	CONDUIT(2)	117.25 - 117.50	1.0000	1.0000
L13	10	LDF7-50A(1-5/8)	117.25 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
			117.50		
L13	11	FB-L98B-002-75000(3/8)	117.25 - 117.50	1.0000	1.0000
L13	12	WR-VG86ST-BRD(3/4)	117.25 - 117.50	1.0000	1.0000
L13	17	HB158-21U6S24-xxM_TMO(1-5/8)	117.25 - 117.50	1.0000	1.0000
L13	21	561(1-5/8)	117.25 - 117.50	1.0000	1.0000
L13	61	CCI 4.5" x 1" Plate	117.25 - 117.50	1.0000	1.0000
L13	71	CCI 6" x 1" Plate	117.25 - 117.50	1.0000	1.0000
L13	72	CCI 6" x 1" Plate	117.25 - 117.50	1.0000	1.0000
L13	73	CCI 6" x 1" Plate	117.25 - 117.50	1.0000	1.0000
L14	2	Safety Line 3/8"	115.50 - 117.25	1.0000	1.0000
L14	3	Climbing Pegs	115.50 - 117.25	1.0000	1.0000
L14	5	LDF7-50A(1-5/8)	115.50 - 117.25	1.0000	1.0000
L14	6	FB-L98B-002-75000(3/8)	115.50 - 117.25	1.0000	1.0000
L14	7	WR-VG86ST-BRD(3/4)	115.50 - 117.25	1.0000	1.0000
L14	8	CONDUIT(2)	115.50 - 117.25	1.0000	1.0000
L14	9	CONDUIT(2)	115.50 - 117.25	1.0000	1.0000
L14	10	LDF7-50A(1-5/8)	115.50 - 117.25	1.0000	1.0000
L14	11	FB-L98B-002-75000(3/8)	115.50 - 117.25	1.0000	1.0000
L14	12	WR-VG86ST-BRD(3/4)	115.50 - 117.25	1.0000	1.0000
L14	17	HB158-21U6S24-xxM_TMO(1-5/8)	115.50 - 117.25	1.0000	1.0000
L14	21	561(1-5/8)	115.50 - 117.25	1.0000	1.0000
L14	59	CCI 4.5" x 1" Plate	115.50 - 117.00	1.0000	1.0000
L14	60	CCI 4.5" x 1" Plate	115.50 - 117.00	1.0000	1.0000
L14	61	CCI 4.5" x 1" Plate	115.50 - 117.25	1.0000	1.0000
L14	71	CCI 6" x 1" Plate	115.50 - 117.25	1.0000	1.0000
L14	72	CCI 6" x 1" Plate	115.50 - 117.25	1.0000	1.0000
L14	73	CCI 6" x 1" Plate	115.50 - 117.25	1.0000	1.0000
L15	2	Safety Line 3/8"	115.25 - 115.50	1.0000	1.0000
L15	3	Climbing Pegs	115.25 - 115.50	1.0000	1.0000
L15	5	LDF7-50A(1-5/8)	115.25 - 115.50	1.0000	1.0000
L15	6	FB-L98B-002-75000(3/8)	115.25 - 115.50	1.0000	1.0000
L15	7	WR-VG86ST-BRD(3/4)	115.25 - 115.50	1.0000	1.0000
L15	8	CONDUIT(2)	115.25 - 115.50	1.0000	1.0000
L15	9	CONDUIT(2)	115.25 - 115.50	1.0000	1.0000
L15	10	LDF7-50A(1-5/8)	115.25 - 115.50	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L15	11	FB-L98B-002-75000(3/8)	115.25 - 115.50	1.0000	1.0000
L15	12	WR-VG86ST-BRD(3/4)	115.25 - 115.50	1.0000	1.0000
L15	17	HB158-21U6S24-xxM_TMO(1-5/8)	115.25 - 115.50	1.0000	1.0000
L15	21	561(1-5/8)	115.25 - 115.50	1.0000	1.0000
L15	59	CCI 4.5" x 1" Plate	115.25 - 115.50	1.0000	1.0000
L15	60	CCI 4.5" x 1" Plate	115.25 - 115.50	1.0000	1.0000
L15	61	CCI 4.5" x 1" Plate	115.25 - 115.50	1.0000	1.0000
L15	71	CCI 6" x 1" Plate	115.25 - 115.50	1.0000	1.0000
L15	72	CCI 6" x 1" Plate	115.25 - 115.50	1.0000	1.0000
L15	73	CCI 6" x 1" Plate	115.25 - 115.50	1.0000	1.0000
L16	2	Safety Line 3/8"	110.25 - 115.25	1.0000	1.0000
L16	3	Climbing Pegs	110.25 - 115.25	1.0000	1.0000
L16	5	LDF7-50A(1-5/8)	110.25 - 115.25	1.0000	1.0000
L16	6	FB-L98B-002-75000(3/8)	110.25 - 115.25	1.0000	1.0000
L16	7	WR-VG86ST-BRD(3/4)	110.25 - 115.25	1.0000	1.0000
L16	8	CONDUIT(2)	110.25 - 115.25	1.0000	1.0000
L16	9	CONDUIT(2)	110.25 - 115.25	1.0000	1.0000
L16	10	LDF7-50A(1-5/8)	110.25 - 115.25	1.0000	1.0000
L16	11	FB-L98B-002-75000(3/8)	110.25 - 115.25	1.0000	1.0000
L16	12	WR-VG86ST-BRD(3/4)	110.25 - 115.25	1.0000	1.0000
L16	17	HB158-21U6S24-xxM_TMO(1-5/8)	110.25 - 115.25	1.0000	1.0000
L16	21	561(1-5/8)	110.25 - 115.25	1.0000	1.0000
L16	25	CU12PSM9P6XXX(1-1/2)	110.25 - 114.00	1.0000	1.0000
L16	59	CCI 4.5" x 1" Plate	110.25 - 115.25	1.0000	1.0000
L16	60	CCI 4.5" x 1" Plate	110.25 - 115.25	1.0000	1.0000
L16	61	CCI 4.5" x 1" Plate	110.25 - 115.25	1.0000	1.0000
L16	71	CCI 6" x 1" Plate	110.25 - 115.25	1.0000	1.0000
L16	72	CCI 6" x 1" Plate	110.25 - 115.25	1.0000	1.0000
L16	73	CCI 6" x 1" Plate	110.25 - 115.25	1.0000	1.0000
L17	2	Safety Line 3/8"	104.08 - 110.25	1.0000	1.0000
L17	3	Climbing Pegs	104.08 - 110.25	1.0000	1.0000
L17	5	LDF7-50A(1-5/8)	104.08 - 110.25	1.0000	1.0000
L17	6	FB-L98B-002-75000(3/8)	104.08 - 110.25	1.0000	1.0000
L17	7	WR-VG86ST-BRD(3/4)	104.08 - 110.25	1.0000	1.0000
L17	8	CONDUIT(2)	104.08 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L17	9	CONDUIT(2)	110.25 104.08 - 110.25	1.0000	1.0000
L17	10	LDF7-50A(1-5/8)	104.08 - 110.25	1.0000	1.0000
L17	11	FB-L98B-002-75000(3/8)	104.08 - 110.25	1.0000	1.0000
L17	12	WR-VG86ST-BRD(3/4)	104.08 - 110.25	1.0000	1.0000
L17	17	HB158-21U6S24-xxM_TMO(1-5/8)	104.08 - 110.25	1.0000	1.0000
L17	21	561(1-5/8)	104.08 - 110.25	1.0000	1.0000
L17	25	CU12PSM9P6XXX(1-1/2)	104.08 - 110.25	1.0000	1.0000
L17	59	CCI 4.5" x 1" Plate	104.08 - 110.25	1.0000	1.0000
L17	60	CCI 4.5" x 1" Plate	104.08 - 110.25	1.0000	1.0000
L17	61	CCI 4.5" x 1" Plate	104.08 - 110.25	1.0000	1.0000
L17	71	CCI 6" x 1" Plate	104.08 - 110.25	1.0000	1.0000
L17	72	CCI 6" x 1" Plate	104.08 - 110.25	1.0000	1.0000
L17	73	CCI 6" x 1" Plate	104.08 - 110.25	1.0000	1.0000
L18	2	Safety Line 3/8"	102.82 - 104.08	1.0000	1.0000
L18	3	Climbing Pegs	102.82 - 104.08	1.0000	1.0000
L18	5	LDF7-50A(1-5/8)	102.82 - 104.08	1.0000	1.0000
L18	6	FB-L98B-002-75000(3/8)	102.82 - 104.08	1.0000	1.0000
L18	7	WR-VG86ST-BRD(3/4)	102.82 - 104.08	1.0000	1.0000
L18	8	CONDUIT(2)	102.82 - 104.08	1.0000	1.0000
L18	9	CONDUIT(2)	102.82 - 104.08	1.0000	1.0000
L18	10	LDF7-50A(1-5/8)	102.82 - 104.08	1.0000	1.0000
L18	11	FB-L98B-002-75000(3/8)	102.82 - 104.08	1.0000	1.0000
L18	12	WR-VG86ST-BRD(3/4)	102.82 - 104.08	1.0000	1.0000
L18	17	HB158-21U6S24-xxM_TMO(1-5/8)	102.82 - 104.08	1.0000	1.0000
L18	21	561(1-5/8)	102.82 - 104.08	1.0000	1.0000
L18	25	CU12PSM9P6XXX(1-1/2)	102.82 - 104.08	1.0000	1.0000
L18	59	CCI 4.5" x 1" Plate	102.82 - 104.08	1.0000	1.0000
L18	60	CCI 4.5" x 1" Plate	102.82 - 104.08	1.0000	1.0000
L18	61	CCI 4.5" x 1" Plate	102.82 - 104.08	1.0000	1.0000
L18	71	CCI 6" x 1" Plate	102.82 - 104.08	1.0000	1.0000
L18	72	CCI 6" x 1" Plate	102.82 - 104.08	1.0000	1.0000
L18	73	CCI 6" x 1" Plate	102.82 - 104.08	1.0000	1.0000
L19	2	Safety Line 3/8"	100.50 - 102.82	1.0000	1.0000
L19	3	Climbing Pegs	100.50 - 102.82	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L19	5	LDF7-50A(1-5/8)	100.50 - 102.82	1.0000	1.0000
L19	6	FB-L98B-002-75000(3/8)	100.50 - 102.82	1.0000	1.0000
L19	7	WR-VG86ST-BRD(3/4)	100.50 - 102.82	1.0000	1.0000
L19	8	CONDUIT(2)	100.50 - 102.82	1.0000	1.0000
L19	9	CONDUIT(2)	100.50 - 102.82	1.0000	1.0000
L19	10	LDF7-50A(1-5/8)	100.50 - 102.82	1.0000	1.0000
L19	11	FB-L98B-002-75000(3/8)	100.50 - 102.82	1.0000	1.0000
L19	12	WR-VG86ST-BRD(3/4)	100.50 - 102.82	1.0000	1.0000
L19	17	HB158-21U6S24-xxM_TMO(1-5/8)	100.50 - 102.82	1.0000	1.0000
L19	21	561(1-5/8)	100.50 - 102.82	1.0000	1.0000
L19	25	CU12PSM9P6XXX(1-1/2)	100.50 - 102.82	1.0000	1.0000
L19	59	CCI 4.5" x 1" Plate	100.50 - 102.82	1.0000	1.0000
L19	60	CCI 4.5" x 1" Plate	100.50 - 102.82	1.0000	1.0000
L19	61	CCI 4.5" x 1" Plate	100.50 - 102.82	1.0000	1.0000
L19	71	CCI 6" x 1" Plate	100.50 - 102.82	1.0000	1.0000
L19	72	CCI 6" x 1" Plate	100.50 - 102.82	1.0000	1.0000
L19	73	CCI 6" x 1" Plate	100.60 - 102.82	1.0000	1.0000
L20	2	Safety Line 3/8"	100.25 - 100.50	1.0000	1.0000
L20	3	Climbing Pegs	100.25 - 100.50	1.0000	1.0000
L20	5	LDF7-50A(1-5/8)	100.25 - 100.50	1.0000	1.0000
L20	6	FB-L98B-002-75000(3/8)	100.25 - 100.50	1.0000	1.0000
L20	7	WR-VG86ST-BRD(3/4)	100.25 - 100.50	1.0000	1.0000
L20	8	CONDUIT(2)	100.25 - 100.50	1.0000	1.0000
L20	9	CONDUIT(2)	100.25 - 100.50	1.0000	1.0000
L20	10	LDF7-50A(1-5/8)	100.25 - 100.50	1.0000	1.0000
L20	11	FB-L98B-002-75000(3/8)	100.25 - 100.50	1.0000	1.0000
L20	12	WR-VG86ST-BRD(3/4)	100.25 - 100.50	1.0000	1.0000
L20	17	HB158-21U6S24-xxM_TMO(1-5/8)	100.25 - 100.50	1.0000	1.0000
L20	21	561(1-5/8)	100.25 - 100.50	1.0000	1.0000
L20	25	CU12PSM9P6XXX(1-1/2)	100.25 - 100.50	1.0000	1.0000
L20	45	CCI 6" x 1" Plate	100.25 - 100.50	1.0000	1.0000
L20	46	CCI 6" x 1" Plate	100.25 - 100.50	1.0000	1.0000
L20	47	CCI 6" x 1" Plate	100.25 - 100.50	1.0000	1.0000
L20	59	CCI 4.5" x 1" Plate	100.25 - 100.50	1.0000	1.0000
L20	60	CCI 4.5" x 1" Plate	100.25 - 100.50	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L20	61	CCI 4.5" x 1" Plate	100.50 100.25 - 100.50	1.0000	1.0000
L20	71	CCI 6" x 1" Plate	100.25 - 100.50	1.0000	1.0000
L20	72	CCI 6" x 1" Plate	100.25 - 100.50	1.0000	1.0000
L21	2	Safety Line 3/8"	98.50 - 100.25	1.0000	1.0000
L21	3	Climbing Pegs	98.50 - 100.25	1.0000	1.0000
L21	5	LDF7-50A(1-5/8)	98.50 - 100.25	1.0000	1.0000
L21	6	FB-L98B-002-75000(3/8)	98.50 - 100.25	1.0000	1.0000
L21	7	WR-VG86ST-BRD(3/4)	98.50 - 100.25	1.0000	1.0000
L21	8	CONDUIT(2)	98.50 - 100.25	1.0000	1.0000
L21	9	CONDUIT(2)	98.50 - 100.25	1.0000	1.0000
L21	10	LDF7-50A(1-5/8)	98.50 - 100.25	1.0000	1.0000
L21	11	FB-L98B-002-75000(3/8)	98.50 - 100.25	1.0000	1.0000
L21	12	WR-VG86ST-BRD(3/4)	98.50 - 100.25	1.0000	1.0000
L21	17	HB158-21U6S24-xxM_TMO(1-5/8)	98.50 - 100.25	1.0000	1.0000
L21	21	561(1-5/8)	98.50 - 100.25	1.0000	1.0000
L21	25	CU12PSM9P6XXX(1-1/2)	98.50 - 100.25	1.0000	1.0000
L21	45	CCI 6" x 1" Plate	98.50 - 100.25	1.0000	1.0000
L21	46	CCI 6" x 1" Plate	98.50 - 100.25	1.0000	1.0000
L21	47	CCI 6" x 1" Plate	98.50 - 100.25	1.0000	1.0000
L21	59	CCI 4.5" x 1" Plate	98.50 - 100.25	1.0000	1.0000
L21	60	CCI 4.5" x 1" Plate	98.50 - 100.25	1.0000	1.0000
L21	61	CCI 4.5" x 1" Plate	99.00 - 100.25	1.0000	1.0000
L21	71	CCI 6" x 1" Plate	98.50 - 100.25	1.0000	1.0000
L21	72	CCI 6" x 1" Plate	98.50 - 100.25	1.0000	1.0000
L22	2	Safety Line 3/8"	98.25 - 98.50	1.0000	1.0000
L22	3	Climbing Pegs	98.25 - 98.50	1.0000	1.0000
L22	5	LDF7-50A(1-5/8)	98.25 - 98.50	1.0000	1.0000
L22	6	FB-L98B-002-75000(3/8)	98.25 - 98.50	1.0000	1.0000
L22	7	WR-VG86ST-BRD(3/4)	98.25 - 98.50	1.0000	1.0000
L22	8	CONDUIT(2)	98.25 - 98.50	1.0000	1.0000
L22	9	CONDUIT(2)	98.25 - 98.50	1.0000	1.0000
L22	10	LDF7-50A(1-5/8)	98.25 - 98.50	1.0000	1.0000
L22	11	FB-L98B-002-75000(3/8)	98.25 - 98.50	1.0000	1.0000
L22	12	WR-VG86ST-BRD(3/4)	98.25 - 98.50	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L22	17	HB158-21U6S24-xxM_TMO(1-5/8)	98.25 - 98.50	1.0000	1.0000
L22	21	561(1-5/8)	98.25 - 98.50	1.0000	1.0000
L22	25	CU12PSM9P6XXX(1-1/2)	98.25 - 98.50	1.0000	1.0000
L22	45	CCI 6" x 1" Plate	98.25 - 98.50	1.0000	1.0000
L22	46	CCI 6" x 1" Plate	98.25 - 98.50	1.0000	1.0000
L22	47	CCI 6" x 1" Plate	98.25 - 98.50	1.0000	1.0000
L22	59	CCI 4.5" x 1" Plate	98.25 - 98.50	1.0000	1.0000
L22	60	CCI 4.5" x 1" Plate	98.25 - 98.50	1.0000	1.0000
L22	71	CCI 6" x 1" Plate	98.25 - 98.50	1.0000	1.0000
L22	72	CCI 6" x 1" Plate	98.25 - 98.50	1.0000	1.0000
L23	2	Safety Line 3/8"	93.25 - 98.25	1.0000	1.0000
L23	3	Climbing Pegs	93.25 - 98.25	1.0000	1.0000
L23	5	LDF7-50A(1-5/8)	93.25 - 98.25	1.0000	1.0000
L23	6	FB-L98B-002-75000(3/8)	93.25 - 98.25	1.0000	1.0000
L23	7	WR-VG86ST-BRD(3/4)	93.25 - 98.25	1.0000	1.0000
L23	8	CONDUIT(2)	93.25 - 98.25	1.0000	1.0000
L23	9	CONDUIT(2)	93.25 - 98.25	1.0000	1.0000
L23	10	LDF7-50A(1-5/8)	93.25 - 98.25	1.0000	1.0000
L23	11	FB-L98B-002-75000(3/8)	93.25 - 98.25	1.0000	1.0000
L23	12	WR-VG86ST-BRD(3/4)	93.25 - 98.25	1.0000	1.0000
L23	17	HB158-21U6S24-xxM_TMO(1-5/8)	93.25 - 98.25	1.0000	1.0000
L23	21	561(1-5/8)	93.25 - 98.25	1.0000	1.0000
L23	25	CU12PSM9P6XXX(1-1/2)	93.25 - 98.25	1.0000	1.0000
L23	45	CCI 6" x 1" Plate	93.25 - 98.25	1.0000	1.0000
L23	46	CCI 6" x 1" Plate	93.25 - 98.25	1.0000	1.0000
L23	47	CCI 6" x 1" Plate	93.25 - 98.25	1.0000	1.0000
L23	59	CCI 4.5" x 1" Plate	97.00 - 98.25	1.0000	1.0000
L23	60	CCI 4.5" x 1" Plate	97.00 - 98.25	1.0000	1.0000
L23	71	CCI 6" x 1" Plate	93.25 - 98.25	1.0000	1.0000
L23	72	CCI 6" x 1" Plate	93.25 - 98.25	1.0000	1.0000
L24	2	Safety Line 3/8"	90.50 - 93.25	1.0000	1.0000
L24	3	Climbing Pegs	90.50 - 93.25	1.0000	1.0000
L24	5	LDF7-50A(1-5/8)	90.50 - 93.25	1.0000	1.0000
L24	6	FB-L98B-002-75000(3/8)	90.50 - 93.25	1.0000	1.0000
L24	7	WR-VG86ST-BRD(3/4)	90.50 -	1.0000	1.0000



Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L24	8	CONDUIT(2)	93.25 90.50 - 93.25	1.0000	1.0000
L24	9	CONDUIT(2)	90.50 - 93.25	1.0000	1.0000
L24	10	LDF7-50A(1-5/8)	90.50 - 93.25	1.0000	1.0000
L24	11	FB-L98B-002-75000(3/8)	90.50 - 93.25	1.0000	1.0000
L24	12	WR-VG86ST-BRD(3/4)	90.50 - 93.25	1.0000	1.0000
L24	17	HB158-21U6S24-xxM_TMO(1-5/8)	90.50 - 93.25	1.0000	1.0000
L24	21	561(1-5/8)	90.50 - 93.25	1.0000	1.0000
L24	25	CU12PSM9P6XXX(1-1/2)	90.50 - 93.25	1.0000	1.0000
L24	45	CCI 6" x 1" Plate	90.50 - 93.25	1.0000	1.0000
L24	46	CCI 6" x 1" Plate	90.50 - 93.25	1.0000	1.0000
L24	47	CCI 6" x 1" Plate	90.50 - 93.25	1.0000	1.0000
L24	71	CCI 6" x 1" Plate	90.60 - 93.25	1.0000	1.0000
L24	72	CCI 6" x 1" Plate	90.60 - 93.25	1.0000	1.0000
L25	2	Safety Line 3/8"	90.25 - 90.50	1.0000	1.0000
L25	3	Climbing Pegs	90.25 - 90.50	1.0000	1.0000
L25	5	LDF7-50A(1-5/8)	90.25 - 90.50	1.0000	1.0000
L25	6	FB-L98B-002-75000(3/8)	90.25 - 90.50	1.0000	1.0000
L25	7	WR-VG86ST-BRD(3/4)	90.25 - 90.50	1.0000	1.0000
L25	8	CONDUIT(2)	90.25 - 90.50	1.0000	1.0000
L25	9	CONDUIT(2)	90.25 - 90.50	1.0000	1.0000
L25	10	LDF7-50A(1-5/8)	90.25 - 90.50	1.0000	1.0000
L25	11	FB-L98B-002-75000(3/8)	90.25 - 90.50	1.0000	1.0000
L25	12	WR-VG86ST-BRD(3/4)	90.25 - 90.50	1.0000	1.0000
L25	17	HB158-21U6S24-xxM_TMO(1-5/8)	90.25 - 90.50	1.0000	1.0000
L25	21	561(1-5/8)	90.25 - 90.50	1.0000	1.0000
L25	25	CU12PSM9P6XXX(1-1/2)	90.25 - 90.50	1.0000	1.0000
L25	45	CCI 6" x 1" Plate	90.25 - 90.50	1.0000	1.0000
L25	46	CCI 6" x 1" Plate	90.25 - 90.50	1.0000	1.0000
L25	47	CCI 6" x 1" Plate	90.25 - 90.50	1.0000	1.0000
L25	69	CCI 8.5" x 1.25" Plate	90.25 - 90.50	1.0000	1.0000
L25	70	CCI 8.5" x 1.25" Plate	90.25 - 90.50	1.0000	1.0000
L26	2	Safety Line 3/8"	85.25 - 90.25	1.0000	1.0000
L26	3	Climbing Pegs	85.25 - 90.25	1.0000	1.0000
L26	5	LDF7-50A(1-5/8)	85.25 - 90.25	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L26	6	FB-L98B-002-75000(3/8)	85.25 - 90.25	1.0000	1.0000
L26	7	WR-VG86ST-BRD(3/4)	85.25 - 90.25	1.0000	1.0000
L26	8	CONDUIT(2)	85.25 - 90.25	1.0000	1.0000
L26	9	CONDUIT(2)	85.25 - 90.25	1.0000	1.0000
L26	10	LDF7-50A(1-5/8)	85.25 - 90.25	1.0000	1.0000
L26	11	FB-L98B-002-75000(3/8)	85.25 - 90.25	1.0000	1.0000
L26	12	WR-VG86ST-BRD(3/4)	85.25 - 90.25	1.0000	1.0000
L26	17	HB158-21U6S24-xxM_TMO(1-5/8)	85.25 - 90.25	1.0000	1.0000
L26	21	561(1-5/8)	85.25 - 90.25	1.0000	1.0000
L26	25	CU12PSM9P6XXX(1-1/2)	85.25 - 90.25	1.0000	1.0000
L26	45	CCI 6" x 1" Plate	85.25 - 90.25	1.0000	1.0000
L26	46	CCI 6" x 1" Plate	85.25 - 90.25	1.0000	1.0000
L26	47	CCI 6" x 1" Plate	85.25 - 90.25	1.0000	1.0000
L26	55	CCI 6.5" x 1.25" Plate	85.25 - 85.50	1.0000	1.0000
L26	56	CCI 6.5" x 1.25" Plate	85.25 - 85.50	1.0000	1.0000
L26	57	CCI 6.5" x 1.25" Plate	85.25 - 85.50	1.0000	1.0000
L26	69	CCI 8.5" x 1.25" Plate	85.25 - 90.25	1.0000	1.0000
L26	70	CCI 8.5" x 1.25" Plate	85.25 - 90.25	1.0000	1.0000
L27	2	Safety Line 3/8"	83.50 - 85.25	1.0000	1.0000
L27	3	Climbing Pegs	83.50 - 85.25	1.0000	1.0000
L27	5	LDF7-50A(1-5/8)	83.50 - 85.25	1.0000	1.0000
L27	6	FB-L98B-002-75000(3/8)	83.50 - 85.25	1.0000	1.0000
L27	7	WR-VG86ST-BRD(3/4)	83.50 - 85.25	1.0000	1.0000
L27	8	CONDUIT(2)	83.50 - 85.25	1.0000	1.0000
L27	9	CONDUIT(2)	83.50 - 85.25	1.0000	1.0000
L27	10	LDF7-50A(1-5/8)	83.50 - 85.25	1.0000	1.0000
L27	11	FB-L98B-002-75000(3/8)	83.50 - 85.25	1.0000	1.0000
L27	12	WR-VG86ST-BRD(3/4)	83.50 - 85.25	1.0000	1.0000
L27	17	HB158-21U6S24-xxM_TMO(1-5/8)	83.50 - 85.25	1.0000	1.0000
L27	21	561(1-5/8)	83.50 - 85.25	1.0000	1.0000
L27	25	CU12PSM9P6XXX(1-1/2)	83.50 - 85.25	1.0000	1.0000
L27	45	CCI 6" x 1" Plate	83.50 - 85.25	1.0000	1.0000
L27	46	CCI 6" x 1" Plate	83.50 - 85.25	1.0000	1.0000
L27	47	CCI 6" x 1" Plate	83.50 - 85.25	1.0000	1.0000
L27	55	CCI 6.5" x 1.25" Plate	83.50 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L27	56	CCI 6.5" x 1.25" Plate	85.25 83.50 -	1.0000	1.0000
L27	57	CCI 6.5" x 1.25" Plate	85.25 83.50 -	1.0000	1.0000
L27	65	CCI 8.5" x 1.25" Plate	85.25 83.50 -	1.0000	1.0000
L27	69	CCI 8.5" x 1.25" Plate	85.00 83.50 -	1.0000	1.0000
L27	70	CCI 8.5" x 1.25" Plate	85.25 83.50 -	1.0000	1.0000
L28	2	Safety Line 3/8"	85.25 83.25 -	1.0000	1.0000
L28	3	Climbing Pegs	83.50 83.25 -	1.0000	1.0000
L28	5	LDF7-50A(1-5/8)	83.50 83.25 -	1.0000	1.0000
L28	6	FB-L98B-002-75000(3/8)	83.50 83.25 -	1.0000	1.0000
L28	7	WR-VG86ST-BRD(3/4)	83.50 83.25 -	1.0000	1.0000
L28	8	CONDUIT(2)	83.50 83.25 -	1.0000	1.0000
L28	9	CONDUIT(2)	83.50 83.25 -	1.0000	1.0000
L28	10	LDF7-50A(1-5/8)	83.50 83.25 -	1.0000	1.0000
L28	11	FB-L98B-002-75000(3/8)	83.50 83.25 -	1.0000	1.0000
L28	12	WR-VG86ST-BRD(3/4)	83.50 83.25 -	1.0000	1.0000
L28	17	HB158-21U6S24-xxM_TMO(1-5/8)	83.50 83.25 -	1.0000	1.0000
L28	21	561(1-5/8)	83.50 83.25 -	1.0000	1.0000
L28	25	CU12PSM9P6XXX(1-1/2)	83.50 83.25 -	1.0000	1.0000
L28	45	CCI 6" x 1" Plate	83.50 83.25 -	1.0000	1.0000
L28	46	CCI 6" x 1" Plate	83.50 83.25 -	1.0000	1.0000
L28	47	CCI 6" x 1" Plate	83.50 83.25 -	1.0000	1.0000
L28	55	CCI 6.5" x 1.25" Plate	83.50 83.25 -	1.0000	1.0000
L28	56	CCI 6.5" x 1.25" Plate	83.50 83.25 -	1.0000	1.0000
L28	57	CCI 6.5" x 1.25" Plate	83.50 83.25 -	1.0000	1.0000
L28	65	CCI 8.5" x 1.25" Plate	83.50 83.25 -	1.0000	1.0000
L28	69	CCI 8.5" x 1.25" Plate	83.50 83.25 -	1.0000	1.0000
L28	70	CCI 8.5" x 1.25" Plate	83.50 83.25 -	1.0000	1.0000
L29	2	Safety Line 3/8"	83.50 80.75 -	1.0000	1.0000
L29	3	Climbing Pegs	83.25 80.75 -	1.0000	1.0000
L29	5	LDF7-50A(1-5/8)	83.25 80.75 -	1.0000	1.0000
L29	6	FB-L98B-002-75000(3/8)	83.25 80.75 -	1.0000	1.0000
L29	7	WR-VG86ST-BRD(3/4)	83.25 80.75 -	1.0000	1.0000
L29	8	CONDUIT(2)	83.25 80.75 -	1.0000	1.0000
L29	9	CONDUIT(2)	83.25 80.75 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L29	10	LDF7-50A(1-5/8)	80.75 - 83.25	1.0000	1.0000
L29	11	FB-L98B-002-75000(3/8)	80.75 - 83.25	1.0000	1.0000
L29	12	WR-VG86ST-BRD(3/4)	80.75 - 83.25	1.0000	1.0000
L29	17	HB158-21U6S24-xxM_TMO(1-5/8)	80.75 - 83.25	1.0000	1.0000
L29	21	561(1-5/8)	80.75 - 83.25	1.0000	1.0000
L29	25	CU12PSM9P6XXX(1-1/2)	80.75 - 83.25	1.0000	1.0000
L29	45	CCI 6" x 1" Plate	80.75 - 83.25	1.0000	1.0000
L29	46	CCI 6" x 1" Plate	80.75 - 83.25	1.0000	1.0000
L29	47	CCI 6" x 1" Plate	80.75 - 83.25	1.0000	1.0000
L29	55	CCI 6.5" x 1.25" Plate	80.75 - 83.25	1.0000	1.0000
L29	56	CCI 6.5" x 1.25" Plate	80.75 - 83.25	1.0000	1.0000
L29	57	CCI 6.5" x 1.25" Plate	80.75 - 83.25	1.0000	1.0000
L29	65	CCI 8.5" x 1.25" Plate	80.75 - 83.25	1.0000	1.0000
L29	69	CCI 8.5" x 1.25" Plate	80.75 - 83.25	1.0000	1.0000
L29	70	CCI 8.5" x 1.25" Plate	80.75 - 83.25	1.0000	1.0000
L30	2	Safety Line 3/8"	80.50 - 80.75	1.0000	1.0000
L30	3	Climbing Pegs	80.50 - 80.75	1.0000	1.0000
L30	5	LDF7-50A(1-5/8)	80.50 - 80.75	1.0000	1.0000
L30	6	FB-L98B-002-75000(3/8)	80.50 - 80.75	1.0000	1.0000
L30	7	WR-VG86ST-BRD(3/4)	80.50 - 80.75	1.0000	1.0000
L30	8	CONDUIT(2)	80.50 - 80.75	1.0000	1.0000
L30	9	CONDUIT(2)	80.50 - 80.75	1.0000	1.0000
L30	10	LDF7-50A(1-5/8)	80.50 - 80.75	1.0000	1.0000
L30	11	FB-L98B-002-75000(3/8)	80.50 - 80.75	1.0000	1.0000
L30	12	WR-VG86ST-BRD(3/4)	80.50 - 80.75	1.0000	1.0000
L30	17	HB158-21U6S24-xxM_TMO(1-5/8)	80.50 - 80.75	1.0000	1.0000
L30	21	561(1-5/8)	80.50 - 80.75	1.0000	1.0000
L30	25	CU12PSM9P6XXX(1-1/2)	80.50 - 80.75	1.0000	1.0000
L30	45	CCI 6" x 1" Plate	80.50 - 80.75	1.0000	1.0000
L30	46	CCI 6" x 1" Plate	80.50 - 80.75	1.0000	1.0000
L30	47	CCI 6" x 1" Plate	80.50 - 80.75	1.0000	1.0000
L30	55	CCI 6.5" x 1.25" Plate	80.50 - 80.75	1.0000	1.0000
L30	56	CCI 6.5" x 1.25" Plate	80.50 - 80.75	1.0000	1.0000
L30	57	CCI 6.5" x 1.25" Plate	80.50 - 80.75	1.0000	1.0000
L30	65	CCI 8.5" x 1.25" Plate	80.50 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L30	69	CCI 8.5" x 1.25" Plate	80.75 80.50 -	1.0000	1.0000
L30	70	CCI 8.5" x 1.25" Plate	80.75 80.50 -	1.0000	1.0000
L31	2	Safety Line 3/8"	80.75 80.25 -	1.0000	1.0000
L31	3	Climbing Pegs	80.50 80.25 -	1.0000	1.0000
L31	5	LDF7-50A(1-5/8)	80.50 80.25 -	1.0000	1.0000
L31	6	FB-L98B-002-75000(3/8)	80.50 80.25 -	1.0000	1.0000
L31	7	WR-VG86ST-BRD(3/4)	80.50 80.25 -	1.0000	1.0000
L31	8	CONDUIT(2)	80.50 80.25 -	1.0000	1.0000
L31	9	CONDUIT(2)	80.50 80.25 -	1.0000	1.0000
L31	10	LDF7-50A(1-5/8)	80.50 80.25 -	1.0000	1.0000
L31	11	FB-L98B-002-75000(3/8)	80.50 80.25 -	1.0000	1.0000
L31	12	WR-VG86ST-BRD(3/4)	80.50 80.25 -	1.0000	1.0000
L31	17	HB158-21U6S24- xxM_TMO(1-5/8)	80.50 80.25 -	1.0000	1.0000
L31	21	561(1-5/8)	80.50 80.25 -	1.0000	1.0000
L31	25	CU12PSM9P6XXX(1-1/2)	80.50 80.25 -	1.0000	1.0000
L31	45	CCI 6" x 1" Plate	80.50 80.25 -	1.0000	1.0000
L31	46	CCI 6" x 1" Plate	80.50 80.25 -	1.0000	1.0000
L31	47	CCI 6" x 1" Plate	80.50 80.25 -	1.0000	1.0000
L31	55	CCI 6.5" x 1.25" Plate	80.50 80.25 -	1.0000	1.0000
L31	56	CCI 6.5" x 1.25" Plate	80.50 80.25 -	1.0000	1.0000
L31	57	CCI 6.5" x 1.25" Plate	80.50 80.25 -	1.0000	1.0000
L31	65	CCI 8.5" x 1.25" Plate	80.50 80.25 -	1.0000	1.0000
L31	69	CCI 8.5" x 1.25" Plate	80.50 80.25 -	1.0000	1.0000
L31	70	CCI 8.5" x 1.25" Plate	80.50 80.25 -	1.0000	1.0000
L32	2	Safety Line 3/8"	80.50 77.50 -	1.0000	1.0000
L32	3	Climbing Pegs	80.25 77.50 -	1.0000	1.0000
L32	5	LDF7-50A(1-5/8)	80.25 77.50 -	1.0000	1.0000
L32	6	FB-L98B-002-75000(3/8)	80.25 77.50 -	1.0000	1.0000
L32	7	WR-VG86ST-BRD(3/4)	80.25 77.50 -	1.0000	1.0000
L32	8	CONDUIT(2)	80.25 77.50 -	1.0000	1.0000
L32	9	CONDUIT(2)	80.25 77.50 -	1.0000	1.0000
L32	10	LDF7-50A(1-5/8)	80.25 77.50 -	1.0000	1.0000
L32	11	FB-L98B-002-75000(3/8)	80.25 77.50 -	1.0000	1.0000
L32	12	WR-VG86ST-BRD(3/4)	80.25 77.50 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L32	17	HB158-21U6S24-xxM_TMO(1-5/8)	77.50 - 80.25	1.0000	1.0000
L32	21	561(1-5/8)	77.50 - 80.25	1.0000	1.0000
L32	25	CU12PSM9P6XXX(1-1/2)	77.50 - 80.25	1.0000	1.0000
L32	45	CCI 6" x 1" Plate	77.50 - 80.25	1.0000	1.0000
L32	46	CCI 6" x 1" Plate	77.50 - 80.25	1.0000	1.0000
L32	47	CCI 6" x 1" Plate	77.50 - 80.25	1.0000	1.0000
L32	55	CCI 6.5" x 1.25" Plate	77.50 - 80.25	1.0000	1.0000
L32	56	CCI 6.5" x 1.25" Plate	77.50 - 80.25	1.0000	1.0000
L32	57	CCI 6.5" x 1.25" Plate	77.50 - 80.25	1.0000	1.0000
L32	65	CCI 8.5" x 1.25" Plate	77.50 - 80.25	1.0000	1.0000
L32	69	CCI 8.5" x 1.25" Plate	77.50 - 80.25	1.0000	1.0000
L32	70	CCI 8.5" x 1.25" Plate	77.50 - 80.25	1.0000	1.0000
L33	2	Safety Line 3/8"	77.25 - 77.50	1.0000	1.0000
L33	3	Climbing Pegs	77.25 - 77.50	1.0000	1.0000
L33	5	LDF7-50A(1-5/8)	77.25 - 77.50	1.0000	1.0000
L33	6	FB-L98B-002-75000(3/8)	77.25 - 77.50	1.0000	1.0000
L33	7	WR-VG86ST-BRD(3/4)	77.25 - 77.50	1.0000	1.0000
L33	8	CONDUIT(2)	77.25 - 77.50	1.0000	1.0000
L33	9	CONDUIT(2)	77.25 - 77.50	1.0000	1.0000
L33	10	LDF7-50A(1-5/8)	77.25 - 77.50	1.0000	1.0000
L33	11	FB-L98B-002-75000(3/8)	77.25 - 77.50	1.0000	1.0000
L33	12	WR-VG86ST-BRD(3/4)	77.25 - 77.50	1.0000	1.0000
L33	17	HB158-21U6S24-xxM_TMO(1-5/8)	77.25 - 77.50	1.0000	1.0000
L33	21	561(1-5/8)	77.25 - 77.50	1.0000	1.0000
L33	25	CU12PSM9P6XXX(1-1/2)	77.25 - 77.50	1.0000	1.0000
L33	45	CCI 6" x 1" Plate	77.25 - 77.50	1.0000	1.0000
L33	46	CCI 6" x 1" Plate	77.25 - 77.50	1.0000	1.0000
L33	47	CCI 6" x 1" Plate	77.25 - 77.50	1.0000	1.0000
L33	55	CCI 6.5" x 1.25" Plate	77.25 - 77.50	1.0000	1.0000
L33	56	CCI 6.5" x 1.25" Plate	77.25 - 77.50	1.0000	1.0000
L33	57	CCI 6.5" x 1.25" Plate	77.25 - 77.50	1.0000	1.0000
L33	65	CCI 8.5" x 1.25" Plate	77.25 - 77.50	1.0000	1.0000
L33	69	CCI 8.5" x 1.25" Plate	77.25 - 77.50	1.0000	1.0000
L33	70	CCI 8.5" x 1.25" Plate	77.25 - 77.50	1.0000	1.0000
L34	2	Safety Line 3/8"	68.82 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
			77.25		
L34	3	Climbing Pegs	68.82 -	1.0000	1.0000
			77.25		
L34	5	LDF7-50A(1-5/8)	68.82 -	1.0000	1.0000
			77.25		
L34	6	FB-L98B-002-75000(3/8)	68.82 -	1.0000	1.0000
			77.25		
L34	7	WR-VG86ST-BRD(3/4)	68.82 -	1.0000	1.0000
			77.25		
L34	8	CONDUIT(2)	68.82 -	1.0000	1.0000
			77.25		
L34	9	CONDUIT(2)	68.82 -	1.0000	1.0000
			77.25		
L34	10	LDF7-50A(1-5/8)	68.82 -	1.0000	1.0000
			77.25		
L34	11	FB-L98B-002-75000(3/8)	68.82 -	1.0000	1.0000
			77.25		
L34	12	WR-VG86ST-BRD(3/4)	68.82 -	1.0000	1.0000
			77.25		
L34	17	HB158-21U6S24-xxM_TMO(1-5/8)	68.82 -	1.0000	1.0000
			77.25		
L34	21	561(1-5/8)	68.82 -	1.0000	1.0000
			77.25		
L34	25	CU12PSM9P6XXX(1-1/2)	68.82 -	1.0000	1.0000
			77.25		
L34	45	CCI 6" x 1" Plate	68.82 -	1.0000	1.0000
			77.25		
L34	46	CCI 6" x 1" Plate	68.82 -	1.0000	1.0000
			77.25		
L34	47	CCI 6" x 1" Plate	68.82 -	1.0000	1.0000
			77.25		
L34	55	CCI 6.5" x 1.25" Plate	72.50 -	1.0000	1.0000
			77.25		
L34	56	CCI 6.5" x 1.25" Plate	72.50 -	1.0000	1.0000
			77.25		
L34	57	CCI 6.5" x 1.25" Plate	72.50 -	1.0000	1.0000
			77.25		
L34	65	CCI 8.5" x 1.25" Plate	68.82 -	1.0000	1.0000
			77.25		
L34	69	CCI 8.5" x 1.25" Plate	68.82 -	1.0000	1.0000
			77.25		
L34	70	CCI 8.5" x 1.25" Plate	68.82 -	1.0000	1.0000
			77.25		
L35	2	Safety Line 3/8"	68.29 -	1.0000	1.0000
			68.82		
L35	3	Climbing Pegs	68.29 -	1.0000	1.0000
			68.82		
L35	5	LDF7-50A(1-5/8)	68.29 -	1.0000	1.0000
			68.82		
L35	6	FB-L98B-002-75000(3/8)	68.29 -	1.0000	1.0000
			68.82		
L35	7	WR-VG86ST-BRD(3/4)	68.29 -	1.0000	1.0000
			68.82		
L35	8	CONDUIT(2)	68.29 -	1.0000	1.0000
			68.82		
L35	9	CONDUIT(2)	68.29 -	1.0000	1.0000
			68.82		
L35	10	LDF7-50A(1-5/8)	68.29 -	1.0000	1.0000
			68.82		
L35	11	FB-L98B-002-75000(3/8)	68.29 -	1.0000	1.0000
			68.82		
L35	12	WR-VG86ST-BRD(3/4)	68.29 -	1.0000	1.0000
			68.82		
L35	17	HB158-21U6S24-xxM_TMO(1-5/8)	68.29 -	1.0000	1.0000
			68.82		
L35	21	561(1-5/8)	68.29 -	1.0000	1.0000
			68.82		
L35	25	CU12PSM9P6XXX(1-1/2)	68.29 -	1.0000	1.0000
			68.82		

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L35	45	CCI 6" x 1" Plate	68.29 - 68.82	1.0000	1.0000
L35	46	CCI 6" x 1" Plate	68.29 - 68.82	1.0000	1.0000
L35	47	CCI 6" x 1" Plate	68.29 - 68.82	1.0000	1.0000
L35	65	CCI 8.5" x 1.25" Plate	68.29 - 68.82	1.0000	1.0000
L35	69	CCI 8.5" x 1.25" Plate	68.29 - 68.82	1.0000	1.0000
L35	70	CCI 8.5" x 1.25" Plate	68.29 - 68.82	1.0000	1.0000
L36	2	Safety Line 3/8"	64.25 - 68.29	1.0000	1.0000
L36	3	Climbing Pegs	64.25 - 68.29	1.0000	1.0000
L36	5	LDF7-50A(1-5/8)	64.25 - 68.29	1.0000	1.0000
L36	6	FB-L98B-002-75000(3/8)	64.25 - 68.29	1.0000	1.0000
L36	7	WR-VG86ST-BRD(3/4)	64.25 - 68.29	1.0000	1.0000
L36	8	CONDUIT(2)	64.25 - 68.29	1.0000	1.0000
L36	9	CONDUIT(2)	64.25 - 68.29	1.0000	1.0000
L36	10	LDF7-50A(1-5/8)	64.25 - 68.29	1.0000	1.0000
L36	11	FB-L98B-002-75000(3/8)	64.25 - 68.29	1.0000	1.0000
L36	12	WR-VG86ST-BRD(3/4)	64.25 - 68.29	1.0000	1.0000
L36	17	HB158-21U6S24-xxM_TMO(1-5/8)	64.25 - 68.29	1.0000	1.0000
L36	21	561(1-5/8)	64.25 - 68.29	1.0000	1.0000
L36	25	CU12PSM9P6XXX(1-1/2)	64.25 - 68.29	1.0000	1.0000
L36	45	CCI 6" x 1" Plate	64.25 - 68.29	1.0000	1.0000
L36	46	CCI 6" x 1" Plate	64.25 - 68.29	1.0000	1.0000
L36	47	CCI 6" x 1" Plate	64.25 - 68.29	1.0000	1.0000
L36	52	CCI 6.5" x 1.25" Plate	64.25 - 67.00	1.0000	1.0000
L36	53	CCI 6.5" x 1.25" Plate	64.25 - 67.00	1.0000	1.0000
L36	54	CCI 6.5" x 1.25" Plate	64.25 - 67.00	1.0000	1.0000
L36	65	CCI 8.5" x 1.25" Plate	64.25 - 68.29	1.0000	1.0000
L36	69	CCI 8.5" x 1.25" Plate	64.25 - 68.29	1.0000	1.0000
L36	70	CCI 8.5" x 1.25" Plate	64.25 - 68.29	1.0000	1.0000
L37	2	Safety Line 3/8"	64.00 - 64.25	1.0000	1.0000
L37	3	Climbing Pegs	64.00 - 64.25	1.0000	1.0000
L37	5	LDF7-50A(1-5/8)	64.00 - 64.25	1.0000	1.0000
L37	6	FB-L98B-002-75000(3/8)	64.00 - 64.25	1.0000	1.0000
L37	7	WR-VG86ST-BRD(3/4)	64.00 - 64.25	1.0000	1.0000
L37	8	CONDUIT(2)	64.00 - 64.25	1.0000	1.0000
L37	9	CONDUIT(2)	64.00 -	1.0000	1.0000



Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L37	10	LDF7-50A(1-5/8)	64.25 64.00 -	1.0000	1.0000
L37	11	FB-L98B-002-75000(3/8)	64.25 64.00 -	1.0000	1.0000
L37	12	WR-VG86ST-BRD(3/4)	64.25 64.00 -	1.0000	1.0000
L37	17	HB158-21U6S24-xxM_TMO(1-5/8)	64.25 64.00 -	1.0000	1.0000
L37	21	561(1-5/8)	64.25 64.00 -	1.0000	1.0000
L37	25	CU12PSM9P6XXX(1-1/2)	64.25 64.00 -	1.0000	1.0000
L37	45	CCI 6" x 1" Plate	64.25 64.00 -	1.0000	1.0000
L37	46	CCI 6" x 1" Plate	64.25 64.00 -	1.0000	1.0000
L37	47	CCI 6" x 1" Plate	64.25 64.00 -	1.0000	1.0000
L37	52	CCI 6.5" x 1.25" Plate	64.25 64.00 -	1.0000	1.0000
L37	53	CCI 6.5" x 1.25" Plate	64.25 64.00 -	1.0000	1.0000
L37	54	CCI 6.5" x 1.25" Plate	64.25 64.00 -	1.0000	1.0000
L37	65	CCI 8.5" x 1.25" Plate	64.25 64.00 -	1.0000	1.0000
L37	69	CCI 8.5" x 1.25" Plate	64.25 64.00 -	1.0000	1.0000
L37	70	CCI 8.5" x 1.25" Plate	64.25 64.00 -	1.0000	1.0000
L38	2	Safety Line 3/8"	64.00 60.50 -	1.0000	1.0000
L38	3	Climbing Pegs	64.00 60.50 -	1.0000	1.0000
L38	5	LDF7-50A(1-5/8)	64.00 60.50 -	1.0000	1.0000
L38	6	FB-L98B-002-75000(3/8)	64.00 60.50 -	1.0000	1.0000
L38	7	WR-VG86ST-BRD(3/4)	64.00 60.50 -	1.0000	1.0000
L38	8	CONDUIT(2)	64.00 60.50 -	1.0000	1.0000
L38	9	CONDUIT(2)	64.00 60.50 -	1.0000	1.0000
L38	10	LDF7-50A(1-5/8)	64.00 60.50 -	1.0000	1.0000
L38	11	FB-L98B-002-75000(3/8)	64.00 60.50 -	1.0000	1.0000
L38	12	WR-VG86ST-BRD(3/4)	64.00 60.50 -	1.0000	1.0000
L38	17	HB158-21U6S24-xxM_TMO(1-5/8)	64.00 60.50 -	1.0000	1.0000
L38	21	561(1-5/8)	64.00 60.50 -	1.0000	1.0000
L38	25	CU12PSM9P6XXX(1-1/2)	64.00 60.50 -	1.0000	1.0000
L38	35	MP3-04	61.50 60.50 -	1.0000	1.0000
L38	45	CCI 6" x 1" Plate	64.00 60.50 -	1.0000	1.0000
L38	46	CCI 6" x 1" Plate	64.00 60.50 -	1.0000	1.0000
L38	47	CCI 6" x 1" Plate	64.00 60.50 -	1.0000	1.0000
L38	52	CCI 6.5" x 1.25" Plate	64.00 60.50 -	1.0000	1.0000
L38	53	CCI 6.5" x 1.25" Plate	64.00 60.50 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L38	54	CCI 6.5" x 1.25" Plate	60.50 - 64.00	1.0000	1.0000
L38	65	CCI 8.5" x 1.25" Plate	60.50 - 64.00	1.0000	1.0000
L38	69	CCI 8.5" x 1.25" Plate	60.50 - 64.00	1.0000	1.0000
L38	70	CCI 8.5" x 1.25" Plate	60.50 - 64.00	1.0000	1.0000
L39	2	Safety Line 3/8"	60.25 - 60.50	1.0000	1.0000
L39	3	Climbing Pegs	60.25 - 60.50	1.0000	1.0000
L39	5	LDF7-50A(1-5/8)	60.25 - 60.50	1.0000	1.0000
L39	6	FB-L98B-002-75000(3/8)	60.25 - 60.50	1.0000	1.0000
L39	7	WR-VG86ST-BRD(3/4)	60.25 - 60.50	1.0000	1.0000
L39	8	CONDUIT(2)	60.25 - 60.50	1.0000	1.0000
L39	9	CONDUIT(2)	60.25 - 60.50	1.0000	1.0000
L39	10	LDF7-50A(1-5/8)	60.25 - 60.50	1.0000	1.0000
L39	11	FB-L98B-002-75000(3/8)	60.25 - 60.50	1.0000	1.0000
L39	12	WR-VG86ST-BRD(3/4)	60.25 - 60.50	1.0000	1.0000
L39	17	HB158-21U6S24-xxM_TMO(1-5/8)	60.25 - 60.50	1.0000	1.0000
L39	21	561(1-5/8)	60.25 - 60.50	1.0000	1.0000
L39	25	CU12PSM9P6XXX(1-1/2)	60.25 - 60.50	1.0000	1.0000
L39	33	MP3-04	60.25 - 60.50	1.0000	1.0000
L39	34	MP3-04	60.25 - 60.50	1.0000	1.0000
L39	35	MP3-04	60.25 - 60.50	1.0000	1.0000
L39	42	CCI 6.5" x 1.25" Plate	60.25 - 60.50	1.0000	1.0000
L39	43	CCI 6.5" x 1.25" Plate	60.25 - 60.50	1.0000	1.0000
L39	44	CCI 6.5" x 1.25" Plate	60.25 - 60.50	1.0000	1.0000
L39	52	CCI 6.5" x 1.25" Plate	60.25 - 60.50	1.0000	1.0000
L39	53	CCI 6.5" x 1.25" Plate	60.25 - 60.50	1.0000	1.0000
L39	54	CCI 6.5" x 1.25" Plate	60.25 - 60.50	1.0000	1.0000
L39	65	CCI 8.5" x 1.25" Plate	60.25 - 60.50	1.0000	1.0000
L39	69	CCI 8.5" x 1.25" Plate	60.25 - 60.50	1.0000	1.0000
L39	70	CCI 8.5" x 1.25" Plate	60.25 - 60.50	1.0000	1.0000
L40	2	Safety Line 3/8"	60.08 - 60.25	1.0000	1.0000
L40	3	Climbing Pegs	60.08 - 60.25	1.0000	1.0000
L40	5	LDF7-50A(1-5/8)	60.08 - 60.25	1.0000	1.0000
L40	6	FB-L98B-002-75000(3/8)	60.08 - 60.25	1.0000	1.0000
L40	7	WR-VG86ST-BRD(3/4)	60.08 - 60.25	1.0000	1.0000
L40	8	CONDUIT(2)	60.08 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L40	9	CONDUIT(2)	60.25 60.08 -	1.0000	1.0000
L40	10	LDF7-50A(1-5/8)	60.25 60.08 -	1.0000	1.0000
L40	11	FB-L98B-002-75000(3/8)	60.25 60.08 -	1.0000	1.0000
L40	12	WR-VG86ST-BRD(3/4)	60.25 60.08 -	1.0000	1.0000
L40	17	HB158-21U6S24- xxM_TMO(1-5/8)	60.25 60.08 -	1.0000	1.0000
L40	21	561(1-5/8)	60.25 60.08 -	1.0000	1.0000
L40	25	CU12PSM9P6XXX(1-1/2)	60.25 60.08 -	1.0000	1.0000
L40	33	MP3-04	60.25 60.08 -	1.0000	1.0000
L40	34	MP3-04	60.25 60.08 -	1.0000	1.0000
L40	35	MP3-04	60.25 60.08 -	1.0000	1.0000
L40	42	CCI 6.5" x 1.25" Plate	60.25 60.08 -	1.0000	1.0000
L40	43	CCI 6.5" x 1.25" Plate	60.25 60.08 -	1.0000	1.0000
L40	44	CCI 6.5" x 1.25" Plate	60.25 60.08 -	1.0000	1.0000
L40	52	CCI 6.5" x 1.25" Plate	60.25 60.08 -	1.0000	1.0000
L40	53	CCI 6.5" x 1.25" Plate	60.25 60.08 -	1.0000	1.0000
L40	54	CCI 6.5" x 1.25" Plate	60.25 60.08 -	1.0000	1.0000
L40	65	CCI 8.5" x 1.25" Plate	60.25 60.08 -	1.0000	1.0000
L40	69	CCI 8.5" x 1.25" Plate	60.25 60.08 -	1.0000	1.0000
L40	70	CCI 8.5" x 1.25" Plate	60.25 60.08 -	1.0000	1.0000
L41	2	Safety Line 3/8"	59.83 - 60.08	1.0000	1.0000
L41	3	Climbing Pegs	59.83 - 60.08	1.0000	1.0000
L41	5	LDF7-50A(1-5/8)	59.83 - 60.08	1.0000	1.0000
L41	6	FB-L98B-002-75000(3/8)	59.83 - 60.08	1.0000	1.0000
L41	7	WR-VG86ST-BRD(3/4)	59.83 - 60.08	1.0000	1.0000
L41	8	CONDUIT(2)	59.83 - 60.08	1.0000	1.0000
L41	9	CONDUIT(2)	59.83 - 60.08	1.0000	1.0000
L41	10	LDF7-50A(1-5/8)	59.83 - 60.08	1.0000	1.0000
L41	11	FB-L98B-002-75000(3/8)	59.83 - 60.08	1.0000	1.0000
L41	12	WR-VG86ST-BRD(3/4)	59.83 - 60.08	1.0000	1.0000
L41	17	HB158-21U6S24- xxM_TMO(1-5/8)	59.83 - 60.08	1.0000	1.0000
L41	21	561(1-5/8)	59.83 - 60.08	1.0000	1.0000
L41	25	CU12PSM9P6XXX(1-1/2)	59.83 - 60.08	1.0000	1.0000
L41	33	MP3-04	59.83 - 60.08	1.0000	1.0000
L41	34	MP3-04	59.83 - 60.08	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L41	35	MP3-04	59.83 - 60.08	1.0000	1.0000
L41	42	CCI 6.5" x 1.25" Plate	59.83 - 60.08	1.0000	1.0000
L41	43	CCI 6.5" x 1.25" Plate	59.83 - 60.08	1.0000	1.0000
L41	44	CCI 6.5" x 1.25" Plate	59.83 - 60.08	1.0000	1.0000
L41	52	CCI 6.5" x 1.25" Plate	59.83 - 60.08	1.0000	1.0000
L41	53	CCI 6.5" x 1.25" Plate	59.83 - 60.08	1.0000	1.0000
L41	54	CCI 6.5" x 1.25" Plate	59.83 - 60.08	1.0000	1.0000
L41	65	CCI 8.5" x 1.25" Plate	60.00 - 60.08	1.0000	1.0000
L41	69	CCI 8.5" x 1.25" Plate	59.83 - 60.08	1.0000	1.0000
L41	70	CCI 8.5" x 1.25" Plate	59.83 - 60.08	1.0000	1.0000
L42	2	Safety Line 3/8"	59.08 - 59.83	1.0000	1.0000
L42	3	Climbing Pegs	59.08 - 59.83	1.0000	1.0000
L42	5	LDF7-50A(1-5/8)	59.08 - 59.83	1.0000	1.0000
L42	6	FB-L98B-002-75000(3/8)	59.08 - 59.83	1.0000	1.0000
L42	7	WR-VG86ST-BRD(3/4)	59.08 - 59.83	1.0000	1.0000
L42	8	CONDUIT(2)	59.08 - 59.83	1.0000	1.0000
L42	9	CONDUIT(2)	59.08 - 59.83	1.0000	1.0000
L42	10	LDF7-50A(1-5/8)	59.08 - 59.83	1.0000	1.0000
L42	11	FB-L98B-002-75000(3/8)	59.08 - 59.83	1.0000	1.0000
L42	12	WR-VG86ST-BRD(3/4)	59.08 - 59.83	1.0000	1.0000
L42	17	HB158-21U6S24-xxM_TMO(1-5/8)	59.08 - 59.83	1.0000	1.0000
L42	21	561(1-5/8)	59.08 - 59.83	1.0000	1.0000
L42	25	CU12PSM9P6XXX(1-1/2)	59.08 - 59.83	1.0000	1.0000
L42	33	MP3-04	59.08 - 59.83	1.0000	1.0000
L42	34	MP3-04	59.08 - 59.83	1.0000	1.0000
L42	35	MP3-04	59.08 - 59.83	1.0000	1.0000
L42	42	CCI 6.5" x 1.25" Plate	59.08 - 59.83	1.0000	1.0000
L42	43	CCI 6.5" x 1.25" Plate	59.08 - 59.83	1.0000	1.0000
L42	44	CCI 6.5" x 1.25" Plate	59.08 - 59.83	1.0000	1.0000
L42	52	CCI 6.5" x 1.25" Plate	59.08 - 59.83	1.0000	1.0000
L42	53	CCI 6.5" x 1.25" Plate	59.08 - 59.83	1.0000	1.0000
L42	54	CCI 6.5" x 1.25" Plate	59.08 - 59.83	1.0000	1.0000
L42	69	CCI 8.5" x 1.25" Plate	59.08 - 59.83	1.0000	1.0000
L42	70	CCI 8.5" x 1.25" Plate	59.08 - 59.83	1.0000	1.0000
L43	2	Safety Line 3/8"	58.83 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
			59.08		
L43	3	Climbing Pegs	58.83 -	1.0000	1.0000
			59.08		
L43	5	LDF7-50A(1-5/8)	58.83 -	1.0000	1.0000
			59.08		
L43	6	FB-L98B-002-75000(3/8)	58.83 -	1.0000	1.0000
			59.08		
L43	7	WR-VG86ST-BRD(3/4)	58.83 -	1.0000	1.0000
			59.08		
L43	8	CONDUIT(2)	58.83 -	1.0000	1.0000
			59.08		
L43	9	CONDUIT(2)	58.83 -	1.0000	1.0000
			59.08		
L43	10	LDF7-50A(1-5/8)	58.83 -	1.0000	1.0000
			59.08		
L43	11	FB-L98B-002-75000(3/8)	58.83 -	1.0000	1.0000
			59.08		
L43	12	WR-VG86ST-BRD(3/4)	58.83 -	1.0000	1.0000
			59.08		
L43	17	HB158-21U6S24- xxM_TMO(1-5/8)	58.83 -	1.0000	1.0000
			59.08		
L43	21	561(1-5/8)	58.83 -	1.0000	1.0000
			59.08		
L43	25	CU12PSM9P6XXX(1-1/2)	58.83 -	1.0000	1.0000
			59.08		
L43	33	MP3-04	58.83 -	1.0000	1.0000
			59.08		
L43	34	MP3-04	58.83 -	1.0000	1.0000
			59.08		
L43	35	MP3-04	58.83 -	1.0000	1.0000
			59.08		
L43	42	CCI 6.5" x 1.25" Plate	58.83 -	1.0000	1.0000
			59.08		
L43	43	CCI 6.5" x 1.25" Plate	58.83 -	1.0000	1.0000
			59.08		
L43	44	CCI 6.5" x 1.25" Plate	58.83 -	1.0000	1.0000
			59.08		
L43	52	CCI 6.5" x 1.25" Plate	58.83 -	1.0000	1.0000
			59.08		
L43	53	CCI 6.5" x 1.25" Plate	58.83 -	1.0000	1.0000
			59.08		
L43	54	CCI 6.5" x 1.25" Plate	58.83 -	1.0000	1.0000
			59.08		
L43	69	CCI 8.5" x 1.25" Plate	58.83 -	1.0000	1.0000
			59.08		
L43	70	CCI 8.5" x 1.25" Plate	58.83 -	1.0000	1.0000
			59.08		
L44	2	Safety Line 3/8"	55.42 -	1.0000	1.0000
			58.83		
L44	3	Climbing Pegs	55.42 -	1.0000	1.0000
			58.83		
L44	5	LDF7-50A(1-5/8)	55.42 -	1.0000	1.0000
			58.83		
L44	6	FB-L98B-002-75000(3/8)	55.42 -	1.0000	1.0000
			58.83		
L44	7	WR-VG86ST-BRD(3/4)	55.42 -	1.0000	1.0000
			58.83		
L44	8	CONDUIT(2)	55.42 -	1.0000	1.0000
			58.83		
L44	9	CONDUIT(2)	55.42 -	1.0000	1.0000
			58.83		
L44	10	LDF7-50A(1-5/8)	55.42 -	1.0000	1.0000
			58.83		
L44	11	FB-L98B-002-75000(3/8)	55.42 -	1.0000	1.0000
			58.83		
L44	12	WR-VG86ST-BRD(3/4)	55.42 -	1.0000	1.0000
			58.83		
L44	17	HB158-21U6S24- xxM_TMO(1-5/8)	55.42 -	1.0000	1.0000
			58.83		

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L44	21	561(1-5/8)	55.42 - 58.83	1.0000	1.0000
L44	25	CU12PSM9P6XXX(1-1/2)	55.42 - 58.83	1.0000	1.0000
L44	33	MP3-04	55.42 - 58.83	1.0000	1.0000
L44	34	MP3-04	55.42 - 58.83	1.0000	1.0000
L44	35	MP3-04	55.42 - 58.83	1.0000	1.0000
L44	42	CCI 6.5" x 1.25" Plate	55.42 - 58.83	1.0000	1.0000
L44	43	CCI 6.5" x 1.25" Plate	55.42 - 58.83	1.0000	1.0000
L44	44	CCI 6.5" x 1.25" Plate	55.42 - 58.83	1.0000	1.0000
L44	52	CCI 6.5" x 1.25" Plate	55.42 - 58.83	1.0000	1.0000
L44	53	CCI 6.5" x 1.25" Plate	55.42 - 58.83	1.0000	1.0000
L44	54	CCI 6.5" x 1.25" Plate	55.42 - 58.83	1.0000	1.0000
L44	69	CCI 8.5" x 1.25" Plate	55.50 - 58.83	1.0000	1.0000
L44	70	CCI 8.5" x 1.25" Plate	55.50 - 58.83	1.0000	1.0000
L45	2	Safety Line 3/8"	55.17 - 55.42	1.0000	1.0000
L45	3	Climbing Pegs	55.17 - 55.42	1.0000	1.0000
L45	5	LDF7-50A(1-5/8)	55.17 - 55.42	1.0000	1.0000
L45	6	FB-L98B-002-75000(3/8)	55.17 - 55.42	1.0000	1.0000
L45	7	WR-VG86ST-BRD(3/4)	55.17 - 55.42	1.0000	1.0000
L45	8	CONDUIT(2)	55.17 - 55.42	1.0000	1.0000
L45	9	CONDUIT(2)	55.17 - 55.42	1.0000	1.0000
L45	10	LDF7-50A(1-5/8)	55.17 - 55.42	1.0000	1.0000
L45	11	FB-L98B-002-75000(3/8)	55.17 - 55.42	1.0000	1.0000
L45	12	WR-VG86ST-BRD(3/4)	55.17 - 55.42	1.0000	1.0000
L45	17	HB158-21U6S24-xxM_TMO(1-5/8)	55.17 - 55.42	1.0000	1.0000
L45	21	561(1-5/8)	55.17 - 55.42	1.0000	1.0000
L45	25	CU12PSM9P6XXX(1-1/2)	55.17 - 55.42	1.0000	1.0000
L45	33	MP3-04	55.17 - 55.42	1.0000	1.0000
L45	34	MP3-04	55.17 - 55.42	1.0000	1.0000
L45	35	MP3-04	55.17 - 55.42	1.0000	1.0000
L45	42	CCI 6.5" x 1.25" Plate	55.17 - 55.42	1.0000	1.0000
L45	43	CCI 6.5" x 1.25" Plate	55.17 - 55.42	1.0000	1.0000
L45	44	CCI 6.5" x 1.25" Plate	55.17 - 55.42	1.0000	1.0000
L45	52	CCI 6.5" x 1.25" Plate	55.17 - 55.42	1.0000	1.0000
L45	53	CCI 6.5" x 1.25" Plate	55.17 - 55.42	1.0000	1.0000
L45	54	CCI 6.5" x 1.25" Plate	55.17 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L45	67	CCI 8.5" x 1.25" Plate	55.42 55.17 - 55.40	1.0000	1.0000
L45	68	CCI 8.5" x 1.25" Plate	55.17 - 55.40	1.0000	1.0000
L46	2	Safety Line 3/8"	54.75 - 55.17	1.0000	1.0000
L46	3	Climbing Pegs	54.75 - 55.17	1.0000	1.0000
L46	5	LDF7-50A(1-5/8)	54.75 - 55.17	1.0000	1.0000
L46	6	FB-L98B-002-75000(3/8)	54.75 - 55.17	1.0000	1.0000
L46	7	WR-VG86ST-BRD(3/4)	54.75 - 55.17	1.0000	1.0000
L46	8	CONDUIT(2)	54.75 - 55.17	1.0000	1.0000
L46	9	CONDUIT(2)	54.75 - 55.17	1.0000	1.0000
L46	10	LDF7-50A(1-5/8)	54.75 - 55.17	1.0000	1.0000
L46	11	FB-L98B-002-75000(3/8)	54.75 - 55.17	1.0000	1.0000
L46	12	WR-VG86ST-BRD(3/4)	54.75 - 55.17	1.0000	1.0000
L46	17	HB158-21U6S24- xxM_TMO(1-5/8)	54.75 - 55.17	1.0000	1.0000
L46	21	561(1-5/8)	54.75 - 55.17	1.0000	1.0000
L46	25	CU12PSM9P6XXX(1-1/2)	54.75 - 55.17	1.0000	1.0000
L46	33	MP3-04	54.75 - 55.17	1.0000	1.0000
L46	34	MP3-04	54.75 - 55.17	1.0000	1.0000
L46	35	MP3-04	54.75 - 55.17	1.0000	1.0000
L46	42	CCI 6.5" x 1.25" Plate	54.75 - 55.17	1.0000	1.0000
L46	43	CCI 6.5" x 1.25" Plate	54.75 - 55.17	1.0000	1.0000
L46	44	CCI 6.5" x 1.25" Plate	54.75 - 55.17	1.0000	1.0000
L46	52	CCI 6.5" x 1.25" Plate	54.75 - 55.17	1.0000	1.0000
L46	53	CCI 6.5" x 1.25" Plate	54.75 - 55.17	1.0000	1.0000
L46	54	CCI 6.5" x 1.25" Plate	54.75 - 55.17	1.0000	1.0000
L46	67	CCI 8.5" x 1.25" Plate	54.75 - 55.17	1.0000	1.0000
L46	68	CCI 8.5" x 1.25" Plate	54.75 - 55.17	1.0000	1.0000
L47	2	Safety Line 3/8"	54.50 - 54.75	1.0000	1.0000
L47	3	Climbing Pegs	54.50 - 54.75	1.0000	1.0000
L47	5	LDF7-50A(1-5/8)	54.50 - 54.75	1.0000	1.0000
L47	6	FB-L98B-002-75000(3/8)	54.50 - 54.75	1.0000	1.0000
L47	7	WR-VG86ST-BRD(3/4)	54.50 - 54.75	1.0000	1.0000
L47	8	CONDUIT(2)	54.50 - 54.75	1.0000	1.0000
L47	9	CONDUIT(2)	54.50 - 54.75	1.0000	1.0000
L47	10	LDF7-50A(1-5/8)	54.50 - 54.75	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L47	11	FB-L98B-002-75000(3/8)	54.50 - 54.75	1.0000	1.0000
L47	12	WR-VG86ST-BRD(3/4)	54.50 - 54.75	1.0000	1.0000
L47	17	HB158-21U6S24- xxM_TMO(1-5/8)	54.50 - 54.75	1.0000	1.0000
L47	21	561(1-5/8)	54.50 - 54.75	1.0000	1.0000
L47	25	CU12PSM9P6XXX(1-1/2)	54.50 - 54.75	1.0000	1.0000
L47	33	MP3-04	54.50 - 54.75	1.0000	1.0000
L47	34	MP3-04	54.50 - 54.75	1.0000	1.0000
L47	35	MP3-04	54.50 - 54.75	1.0000	1.0000
L47	42	CCI 6.5" x 1.25" Plate	54.50 - 54.75	1.0000	1.0000
L47	43	CCI 6.5" x 1.25" Plate	54.50 - 54.75	1.0000	1.0000
L47	44	CCI 6.5" x 1.25" Plate	54.50 - 54.75	1.0000	1.0000
L47	52	CCI 6.5" x 1.25" Plate	54.50 - 54.75	1.0000	1.0000
L47	53	CCI 6.5" x 1.25" Plate	54.50 - 54.75	1.0000	1.0000
L47	54	CCI 6.5" x 1.25" Plate	54.50 - 54.75	1.0000	1.0000
L47	67	CCI 8.5" x 1.25" Plate	54.50 - 54.75	1.0000	1.0000
L47	68	CCI 8.5" x 1.25" Plate	54.50 - 54.75	1.0000	1.0000
L48	2	Safety Line 3/8"	49.50 - 54.50	1.0000	1.0000
L48	3	Climbing Pegs	49.50 - 54.50	1.0000	1.0000
L48	5	LDF7-50A(1-5/8)	49.50 - 54.50	1.0000	1.0000
L48	6	FB-L98B-002-75000(3/8)	49.50 - 54.50	1.0000	1.0000
L48	7	WR-VG86ST-BRD(3/4)	49.50 - 54.50	1.0000	1.0000
L48	8	CONDUIT(2)	49.50 - 54.50	1.0000	1.0000
L48	9	CONDUIT(2)	49.50 - 54.50	1.0000	1.0000
L48	10	LDF7-50A(1-5/8)	49.50 - 54.50	1.0000	1.0000
L48	11	FB-L98B-002-75000(3/8)	49.50 - 54.50	1.0000	1.0000
L48	12	WR-VG86ST-BRD(3/4)	49.50 - 54.50	1.0000	1.0000
L48	17	HB158-21U6S24- xxM_TMO(1-5/8)	49.50 - 54.50	1.0000	1.0000
L48	21	561(1-5/8)	49.50 - 54.50	1.0000	1.0000
L48	25	CU12PSM9P6XXX(1-1/2)	49.50 - 54.50	1.0000	1.0000
L48	33	MP3-04	49.50 - 54.50	1.0000	1.0000
L48	34	MP3-04	49.50 - 54.50	1.0000	1.0000
L48	35	MP3-04	49.50 - 54.50	1.0000	1.0000
L48	42	CCI 6.5" x 1.25" Plate	49.50 - 54.50	1.0000	1.0000
L48	43	CCI 6.5" x 1.25" Plate	49.50 - 54.50	1.0000	1.0000
L48	44	CCI 6.5" x 1.25" Plate	49.50 -	1.0000	1.0000



Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L48	52	CCI 6.5" x 1.25" Plate	54.50 52.00 -	1.0000	1.0000
L48	53	CCI 6.5" x 1.25" Plate	54.50 52.00 -	1.0000	1.0000
L48	54	CCI 6.5" x 1.25" Plate	54.50 52.00 -	1.0000	1.0000
L48	67	CCI 8.5" x 1.25" Plate	54.50 49.50 -	1.0000	1.0000
L48	68	CCI 8.5" x 1.25" Plate	54.50 49.50 -	1.0000	1.0000
L49	2	Safety Line 3/8"	54.50 44.50 -	1.0000	1.0000
L49	3	Climbing Pegs	49.50 44.50 -	1.0000	1.0000
L49	5	LDF7-50A(1-5/8)	49.50 44.50 -	1.0000	1.0000
L49	6	FB-L98B-002-75000(3/8)	49.50 44.50 -	1.0000	1.0000
L49	7	WR-VG86ST-BRD(3/4)	49.50 44.50 -	1.0000	1.0000
L49	8	CONDUIT(2)	49.50 44.50 -	1.0000	1.0000
L49	9	CONDUIT(2)	49.50 44.50 -	1.0000	1.0000
L49	10	LDF7-50A(1-5/8)	49.50 44.50 -	1.0000	1.0000
L49	11	FB-L98B-002-75000(3/8)	49.50 44.50 -	1.0000	1.0000
L49	12	WR-VG86ST-BRD(3/4)	49.50 44.50 -	1.0000	1.0000
L49	17	HB158-21U6S24-xxM_TMO(1-5/8)	49.50 44.50 -	1.0000	1.0000
L49	21	561(1-5/8)	49.50 44.50 -	1.0000	1.0000
L49	25	CU12PSM9P6XXX(1-1/2)	49.50 44.50 -	1.0000	1.0000
L49	33	MP3-04	49.50 44.50 -	1.0000	1.0000
L49	34	MP3-04	49.50 44.50 -	1.0000	1.0000
L49	35	MP3-04	49.50 44.50 -	1.0000	1.0000
L49	42	CCI 6.5" x 1.25" Plate	49.50 44.50 -	1.0000	1.0000
L49	43	CCI 6.5" x 1.25" Plate	49.50 44.50 -	1.0000	1.0000
L49	44	CCI 6.5" x 1.25" Plate	49.50 44.50 -	1.0000	1.0000
L49	64	CCI 8.5" x 1.25" Plate	49.50 44.50 -	1.0000	1.0000
L49	67	CCI 8.5" x 1.25" Plate	45.50 44.50 -	1.0000	1.0000
L49	68	CCI 8.5" x 1.25" Plate	49.50 44.50 -	1.0000	1.0000
L50	2	Safety Line 3/8"	49.50 41.25 -	1.0000	1.0000
L50	3	Climbing Pegs	44.50 41.25 -	1.0000	1.0000
L50	5	LDF7-50A(1-5/8)	44.50 41.25 -	1.0000	1.0000
L50	6	FB-L98B-002-75000(3/8)	44.50 41.25 -	1.0000	1.0000
L50	7	WR-VG86ST-BRD(3/4)	44.50 41.25 -	1.0000	1.0000
L50	8	CONDUIT(2)	44.50 41.25 -	1.0000	1.0000
L50	9	CONDUIT(2)	44.50 41.25 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L50	10	LDF7-50A(1-5/8)	41.25 - 44.50	1.0000	1.0000
L50	11	FB-L98B-002-75000(3/8)	41.25 - 44.50	1.0000	1.0000
L50	12	WR-VG86ST-BRD(3/4)	41.25 - 44.50	1.0000	1.0000
L50	17	HB158-21U6S24-xxM_TMO(1-5/8)	41.25 - 44.50	1.0000	1.0000
L50	21	561(1-5/8)	41.25 - 44.50	1.0000	1.0000
L50	25	CU12PSM9P6XXX(1-1/2)	41.25 - 44.50	1.0000	1.0000
L50	33	MP3-04	41.25 - 44.50	1.0000	1.0000
L50	34	MP3-04	41.25 - 44.50	1.0000	1.0000
L50	35	MP3-04	41.25 - 44.50	1.0000	1.0000
L50	42	CCI 6.5" x 1.25" Plate	41.25 - 44.50	1.0000	1.0000
L50	43	CCI 6.5" x 1.25" Plate	41.25 - 44.50	1.0000	1.0000
L50	44	CCI 6.5" x 1.25" Plate	41.25 - 44.50	1.0000	1.0000
L50	64	CCI 8.5" x 1.25" Plate	41.25 - 44.50	1.0000	1.0000
L50	67	CCI 8.5" x 1.25" Plate	41.25 - 44.50	1.0000	1.0000
L50	68	CCI 8.5" x 1.25" Plate	41.25 - 44.50	1.0000	1.0000
L51	2	Safety Line 3/8"	41.00 - 41.25	1.0000	1.0000
L51	3	Climbing Pegs	41.00 - 41.25	1.0000	1.0000
L51	5	LDF7-50A(1-5/8)	41.00 - 41.25	1.0000	1.0000
L51	6	FB-L98B-002-75000(3/8)	41.00 - 41.25	1.0000	1.0000
L51	7	WR-VG86ST-BRD(3/4)	41.00 - 41.25	1.0000	1.0000
L51	8	CONDUIT(2)	41.00 - 41.25	1.0000	1.0000
L51	9	CONDUIT(2)	41.00 - 41.25	1.0000	1.0000
L51	10	LDF7-50A(1-5/8)	41.00 - 41.25	1.0000	1.0000
L51	11	FB-L98B-002-75000(3/8)	41.00 - 41.25	1.0000	1.0000
L51	12	WR-VG86ST-BRD(3/4)	41.00 - 41.25	1.0000	1.0000
L51	17	HB158-21U6S24-xxM_TMO(1-5/8)	41.00 - 41.25	1.0000	1.0000
L51	21	561(1-5/8)	41.00 - 41.25	1.0000	1.0000
L51	25	CU12PSM9P6XXX(1-1/2)	41.00 - 41.25	1.0000	1.0000
L51	33	MP3-04	41.00 - 41.25	1.0000	1.0000
L51	34	MP3-04	41.00 - 41.25	1.0000	1.0000
L51	35	MP3-04	41.00 - 41.25	1.0000	1.0000
L51	42	CCI 6.5" x 1.25" Plate	41.00 - 41.25	1.0000	1.0000
L51	43	CCI 6.5" x 1.25" Plate	41.00 - 41.25	1.0000	1.0000
L51	44	CCI 6.5" x 1.25" Plate	41.00 - 41.25	1.0000	1.0000
L51	64	CCI 8.5" x 1.25" Plate	41.00 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L51	67	CCI 8.5" x 1.25" Plate	41.25 41.00 -	1.0000	1.0000
L51	68	CCI 8.5" x 1.25" Plate	41.25 41.00 -	1.0000	1.0000
L52	2	Safety Line 3/8"	41.25 34.29 -	1.0000	1.0000
L52	3	Climbing Pegs	41.00 34.29 -	1.0000	1.0000
L52	5	LDF7-50A(1-5/8)	41.00 34.29 -	1.0000	1.0000
L52	6	FB-L98B-002-75000(3/8)	41.00 34.29 -	1.0000	1.0000
L52	7	WR-VG86ST-BRD(3/4)	41.00 34.29 -	1.0000	1.0000
L52	8	CONDUIT(2)	41.00 34.29 -	1.0000	1.0000
L52	9	CONDUIT(2)	41.00 34.29 -	1.0000	1.0000
L52	10	LDF7-50A(1-5/8)	41.00 34.29 -	1.0000	1.0000
L52	11	FB-L98B-002-75000(3/8)	41.00 34.29 -	1.0000	1.0000
L52	12	WR-VG86ST-BRD(3/4)	41.00 34.29 -	1.0000	1.0000
L52	17	HB158-21U6S24- xxM_TMO(1-5/8)	41.00 34.29 -	1.0000	1.0000
L52	21	561(1-5/8)	41.00 34.29 -	1.0000	1.0000
L52	25	CU12PSM9P6XXX(1-1/2)	41.00 34.29 -	1.0000	1.0000
L52	33	MP3-04	41.00 34.29 -	1.0000	1.0000
L52	34	MP3-04	41.00 34.29 -	1.0000	1.0000
L52	35	MP3-04	41.00 34.29 -	1.0000	1.0000
L52	42	CCI 6.5" x 1.25" Plate	41.00 34.29 -	1.0000	1.0000
L52	43	CCI 6.5" x 1.25" Plate	41.00 34.29 -	1.0000	1.0000
L52	44	CCI 6.5" x 1.25" Plate	41.00 34.29 -	1.0000	1.0000
L52	49	CCI 6.5" x 1.25" Plate	41.00 38.00 34.29 -	1.0000	1.0000
L52	50	CCI 6.5" x 1.25" Plate	38.00 34.29 -	1.0000	1.0000
L52	51	CCI 6.5" x 1.25" Plate	38.00 34.29 -	1.0000	1.0000
L52	64	CCI 8.5" x 1.25" Plate	38.00 34.29 -	1.0000	1.0000
L52	67	CCI 8.5" x 1.25" Plate	41.00 34.29 -	1.0000	1.0000
L52	68	CCI 8.5" x 1.25" Plate	41.00 34.29 -	1.0000	1.0000
L53	2	Safety Line 3/8"	41.00 33.29 -	1.0000	1.0000
L53	3	Climbing Pegs	34.29 33.29 -	1.0000	1.0000
L53	5	LDF7-50A(1-5/8)	34.29 33.29 -	1.0000	1.0000
L53	6	FB-L98B-002-75000(3/8)	34.29 33.29 -	1.0000	1.0000
L53	7	WR-VG86ST-BRD(3/4)	34.29 33.29 -	1.0000	1.0000
L53	8	CONDUIT(2)	34.29 33.29 -	1.0000	1.0000
L53	9	CONDUIT(2)	34.29 33.29 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L53	10	LDF7-50A(1-5/8)	33.29 - 34.29	1.0000	1.0000
L53	11	FB-L98B-002-75000(3/8)	33.29 - 34.29	1.0000	1.0000
L53	12	WR-VG86ST-BRD(3/4)	33.29 - 34.29	1.0000	1.0000
L53	17	HB158-21U6S24- xxM_TMO(1-5/8)	33.29 - 34.29	1.0000	1.0000
L53	21	561(1-5/8)	33.29 - 34.29	1.0000	1.0000
L53	25	CU12PSM9P6XXX(1-1/2)	33.29 - 34.29	1.0000	1.0000
L53	33	MP3-04	33.29 - 34.29	1.0000	1.0000
L53	34	MP3-04	33.29 - 34.29	1.0000	1.0000
L53	35	MP3-04	33.29 - 34.29	1.0000	1.0000
L53	42	CCI 6.5" x 1.25" Plate	33.29 - 34.29	1.0000	1.0000
L53	43	CCI 6.5" x 1.25" Plate	33.29 - 34.29	1.0000	1.0000
L53	44	CCI 6.5" x 1.25" Plate	33.29 - 34.29	1.0000	1.0000
L53	49	CCI 6.5" x 1.25" Plate	33.29 - 34.29	1.0000	1.0000
L53	50	CCI 6.5" x 1.25" Plate	33.29 - 34.29	1.0000	1.0000
L53	51	CCI 6.5" x 1.25" Plate	33.29 - 34.29	1.0000	1.0000
L53	64	CCI 8.5" x 1.25" Plate	33.29 - 34.29	1.0000	1.0000
L53	67	CCI 8.5" x 1.25" Plate	33.29 - 34.29	1.0000	1.0000
L53	68	CCI 8.5" x 1.25" Plate	33.29 - 34.29	1.0000	1.0000
L54	2	Safety Line 3/8"	31.50 - 33.29	1.0000	1.0000
L54	3	Climbing Pegs	31.50 - 33.29	1.0000	1.0000
L54	5	LDF7-50A(1-5/8)	31.50 - 33.29	1.0000	1.0000
L54	6	FB-L98B-002-75000(3/8)	31.50 - 33.29	1.0000	1.0000
L54	7	WR-VG86ST-BRD(3/4)	31.50 - 33.29	1.0000	1.0000
L54	8	CONDUIT(2)	31.50 - 33.29	1.0000	1.0000
L54	9	CONDUIT(2)	31.50 - 33.29	1.0000	1.0000
L54	10	LDF7-50A(1-5/8)	31.50 - 33.29	1.0000	1.0000
L54	11	FB-L98B-002-75000(3/8)	31.50 - 33.29	1.0000	1.0000
L54	12	WR-VG86ST-BRD(3/4)	31.50 - 33.29	1.0000	1.0000
L54	17	HB158-21U6S24- xxM_TMO(1-5/8)	31.50 - 33.29	1.0000	1.0000
L54	21	561(1-5/8)	31.50 - 33.29	1.0000	1.0000
L54	25	CU12PSM9P6XXX(1-1/2)	31.50 - 33.29	1.0000	1.0000
L54	33	MP3-04	31.50 - 33.29	1.0000	1.0000
L54	34	MP3-04	31.50 - 33.29	1.0000	1.0000
L54	35	MP3-04	31.50 - 33.29	1.0000	1.0000
L54	42	CCI 6.5" x 1.25" Plate	31.50 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
			33.29		
L54	43	CCI 6.5" x 1.25" Plate	31.50 - 33.29	1.0000	1.0000
L54	44	CCI 6.5" x 1.25" Plate	31.50 - 33.29	1.0000	1.0000
L54	49	CCI 6.5" x 1.25" Plate	31.50 - 33.29	1.0000	1.0000
L54	50	CCI 6.5" x 1.25" Plate	31.50 - 33.29	1.0000	1.0000
L54	51	CCI 6.5" x 1.25" Plate	31.50 - 33.29	1.0000	1.0000
L54	64	CCI 8.5" x 1.25" Plate	31.50 - 33.29	1.0000	1.0000
L54	67	CCI 8.5" x 1.25" Plate	31.50 - 33.29	1.0000	1.0000
L54	68	CCI 8.5" x 1.25" Plate	31.50 - 33.29	1.0000	1.0000
L55	2	Safety Line 3/8"	31.25 - 31.50	1.0000	1.0000
L55	3	Climbing Pegs	31.25 - 31.50	1.0000	1.0000
L55	5	LDF7-50A(1-5/8)	31.25 - 31.50	1.0000	1.0000
L55	6	FB-L98B-002-75000(3/8)	31.25 - 31.50	1.0000	1.0000
L55	7	WR-VG86ST-BRD(3/4)	31.25 - 31.50	1.0000	1.0000
L55	8	CONDUIT(2)	31.25 - 31.50	1.0000	1.0000
L55	9	CONDUIT(2)	31.25 - 31.50	1.0000	1.0000
L55	10	LDF7-50A(1-5/8)	31.25 - 31.50	1.0000	1.0000
L55	11	FB-L98B-002-75000(3/8)	31.25 - 31.50	1.0000	1.0000
L55	12	WR-VG86ST-BRD(3/4)	31.25 - 31.50	1.0000	1.0000
L55	17	HB158-21U6S24-xxM_TMO(1-5/8)	31.25 - 31.50	1.0000	1.0000
L55	21	561(1-5/8)	31.25 - 31.50	1.0000	1.0000
L55	25	CU12PSM9P6XXX(1-1/2)	31.25 - 31.50	1.0000	1.0000
L55	30	MP3-05	31.25 - 31.50	1.0000	1.0000
L55	33	MP3-04	31.25 - 31.50	1.0000	1.0000
L55	34	MP3-04	31.25 - 31.50	1.0000	1.0000
L55	35	MP3-04	31.25 - 31.50	1.0000	1.0000
L55	42	CCI 6.5" x 1.25" Plate	31.25 - 31.50	1.0000	1.0000
L55	43	CCI 6.5" x 1.25" Plate	31.25 - 31.50	1.0000	1.0000
L55	44	CCI 6.5" x 1.25" Plate	31.25 - 31.50	1.0000	1.0000
L55	49	CCI 6.5" x 1.25" Plate	31.25 - 31.50	1.0000	1.0000
L55	50	CCI 6.5" x 1.25" Plate	31.25 - 31.50	1.0000	1.0000
L55	51	CCI 6.5" x 1.25" Plate	31.25 - 31.50	1.0000	1.0000
L55	64	CCI 8.5" x 1.25" Plate	31.25 - 31.50	1.0000	1.0000
L55	67	CCI 8.5" x 1.25" Plate	31.25 - 31.50	1.0000	1.0000
L55	68	CCI 8.5" x 1.25" Plate	31.25 - 31.50	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L56	2	Safety Line 3/8"	30.50 - 31.25	1.0000	1.0000
L56	3	Climbing Pegs	30.50 - 31.25	1.0000	1.0000
L56	5	LDF7-50A(1-5/8)	30.50 - 31.25	1.0000	1.0000
L56	6	FB-L98B-002-75000(3/8)	30.50 - 31.25	1.0000	1.0000
L56	7	WR-VG86ST-BRD(3/4)	30.50 - 31.25	1.0000	1.0000
L56	8	CONDUIT(2)	30.50 - 31.25	1.0000	1.0000
L56	9	CONDUIT(2)	30.50 - 31.25	1.0000	1.0000
L56	10	LDF7-50A(1-5/8)	30.50 - 31.25	1.0000	1.0000
L56	11	FB-L98B-002-75000(3/8)	30.50 - 31.25	1.0000	1.0000
L56	12	WR-VG86ST-BRD(3/4)	30.50 - 31.25	1.0000	1.0000
L56	17	HB158-21U6S24-xxM_TMO(1-5/8)	30.50 - 31.25	1.0000	1.0000
L56	21	561(1-5/8)	30.50 - 31.25	1.0000	1.0000
L56	25	CU12PSM9P6XXX(1-1/2)	30.50 - 31.25	1.0000	1.0000
L56	30	MP3-05	30.50 - 31.25	1.0000	1.0000
L56	33	MP3-04	30.50 - 31.25	1.0000	1.0000
L56	34	MP3-04	30.50 - 31.25	1.0000	1.0000
L56	35	MP3-04	31.00 - 31.25	1.0000	1.0000
L56	42	CCI 6.5" x 1.25" Plate	30.50 - 31.25	1.0000	1.0000
L56	43	CCI 6.5" x 1.25" Plate	30.50 - 31.25	1.0000	1.0000
L56	44	CCI 6.5" x 1.25" Plate	30.50 - 31.25	1.0000	1.0000
L56	49	CCI 6.5" x 1.25" Plate	30.50 - 31.25	1.0000	1.0000
L56	50	CCI 6.5" x 1.25" Plate	30.50 - 31.25	1.0000	1.0000
L56	51	CCI 6.5" x 1.25" Plate	30.50 - 31.25	1.0000	1.0000
L56	64	CCI 8.5" x 1.25" Plate	30.50 - 31.25	1.0000	1.0000
L56	67	CCI 8.5" x 1.25" Plate	30.50 - 31.25	1.0000	1.0000
L56	68	CCI 8.5" x 1.25" Plate	30.50 - 31.25	1.0000	1.0000
L57	2	Safety Line 3/8"	30.25 - 30.50	1.0000	1.0000
L57	3	Climbing Pegs	30.25 - 30.50	1.0000	1.0000
L57	5	LDF7-50A(1-5/8)	30.25 - 30.50	1.0000	1.0000
L57	6	FB-L98B-002-75000(3/8)	30.25 - 30.50	1.0000	1.0000
L57	7	WR-VG86ST-BRD(3/4)	30.25 - 30.50	1.0000	1.0000
L57	8	CONDUIT(2)	30.25 - 30.50	1.0000	1.0000
L57	9	CONDUIT(2)	30.25 - 30.50	1.0000	1.0000
L57	10	LDF7-50A(1-5/8)	30.25 - 30.50	1.0000	1.0000
L57	11	FB-L98B-002-75000(3/8)	30.25 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L57	12	WR-VG86ST-BRD(3/4)	30.50 30.25 - 30.50	1.0000	1.0000
L57	17	HB158-21U6S24- xxM_TMO(1-5/8)	30.25 - 30.50	1.0000	1.0000
L57	21	561(1-5/8)	30.25 - 30.50	1.0000	1.0000
L57	25	CU12PSM9P6XXX(1-1/2)	30.25 - 30.50	1.0000	1.0000
L57	30	MP3-05	30.25 - 30.50	1.0000	1.0000
L57	31	MP3-05	30.25 - 30.50	1.0000	1.0000
L57	32	MP3-05	30.25 - 30.50	1.0000	1.0000
L57	39	CCI 6" x 1" Plate	30.25 - 30.50	1.0000	1.0000
L57	40	CCI 6" x 1" Plate	30.25 - 30.50	1.0000	1.0000
L57	41	CCI 6" x 1" Plate	30.25 - 30.50	1.0000	1.0000
L57	49	CCI 6.5" x 1.25" Plate	30.25 - 30.50	1.0000	1.0000
L57	50	CCI 6.5" x 1.25" Plate	30.25 - 30.50	1.0000	1.0000
L57	51	CCI 6.5" x 1.25" Plate	30.25 - 30.50	1.0000	1.0000
L57	64	CCI 8.5" x 1.25" Plate	30.25 - 30.50	1.0000	1.0000
L57	67	CCI 8.5" x 1.25" Plate	30.25 - 30.50	1.0000	1.0000
L57	68	CCI 8.5" x 1.25" Plate	30.25 - 30.50	1.0000	1.0000
L58	2	Safety Line 3/8"	25.75 - 30.25	1.0000	1.0000
L58	3	Climbing Pegs	25.75 - 30.25	1.0000	1.0000
L58	5	LDF7-50A(1-5/8)	25.75 - 30.25	1.0000	1.0000
L58	6	FB-L98B-002-75000(3/8)	25.75 - 30.25	1.0000	1.0000
L58	7	WR-VG86ST-BRD(3/4)	25.75 - 30.25	1.0000	1.0000
L58	8	CONDUIT(2)	25.75 - 30.25	1.0000	1.0000
L58	9	CONDUIT(2)	25.75 - 30.25	1.0000	1.0000
L58	10	LDF7-50A(1-5/8)	25.75 - 30.25	1.0000	1.0000
L58	11	FB-L98B-002-75000(3/8)	25.75 - 30.25	1.0000	1.0000
L58	12	WR-VG86ST-BRD(3/4)	25.75 - 30.25	1.0000	1.0000
L58	17	HB158-21U6S24- xxM_TMO(1-5/8)	25.75 - 30.25	1.0000	1.0000
L58	21	561(1-5/8)	25.75 - 30.25	1.0000	1.0000
L58	25	CU12PSM9P6XXX(1-1/2)	25.75 - 30.25	1.0000	1.0000
L58	30	MP3-05	25.75 - 30.25	1.0000	1.0000
L58	31	MP3-05	25.75 - 30.25	1.0000	1.0000
L58	32	MP3-05	25.75 - 30.25	1.0000	1.0000
L58	39	CCI 6" x 1" Plate	25.75 - 30.25	1.0000	1.0000
L58	40	CCI 6" x 1" Plate	25.75 - 30.25	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L58	41	CCI 6" x 1" Plate	25.75 - 30.25	1.0000	1.0000
L58	49	CCI 6.5" x 1.25" Plate	25.75 - 30.25	1.0000	1.0000
L58	50	CCI 6.5" x 1.25" Plate	25.75 - 30.25	1.0000	1.0000
L58	51	CCI 6.5" x 1.25" Plate	25.75 - 30.25	1.0000	1.0000
L58	64	CCI 8.5" x 1.25" Plate	25.75 - 30.25	1.0000	1.0000
L58	67	CCI 8.5" x 1.25" Plate	25.75 - 30.25	1.0000	1.0000
L58	68	CCI 8.5" x 1.25" Plate	25.75 - 30.25	1.0000	1.0000
L58	80	CCI 1.25" x 5.875" Plate	25.75 - 28.50	1.0000	1.0000
L58	81	CCI 1.25" x 5.875" Plate	25.75 - 28.50	1.0000	1.0000
L58	82	CCI 1.25" x 5.875" Plate	25.75 - 28.50	1.0000	1.0000
L59	2	Safety Line 3/8"	25.50 - 25.75	1.0000	1.0000
L59	3	Climbing Pegs	25.50 - 25.75	1.0000	1.0000
L59	5	LDF7-50A(1-5/8)	25.50 - 25.75	1.0000	1.0000
L59	6	FB-L98B-002-75000(3/8)	25.50 - 25.75	1.0000	1.0000
L59	7	WR-VG86ST-BRD(3/4)	25.50 - 25.75	1.0000	1.0000
L59	8	CONDUIT(2)	25.50 - 25.75	1.0000	1.0000
L59	9	CONDUIT(2)	25.50 - 25.75	1.0000	1.0000
L59	10	LDF7-50A(1-5/8)	25.50 - 25.75	1.0000	1.0000
L59	11	FB-L98B-002-75000(3/8)	25.50 - 25.75	1.0000	1.0000
L59	12	WR-VG86ST-BRD(3/4)	25.50 - 25.75	1.0000	1.0000
L59	17	HB158-21U6S24-xxM_TMO(1-5/8)	25.50 - 25.75	1.0000	1.0000
L59	21	561(1-5/8)	25.50 - 25.75	1.0000	1.0000
L59	25	CU12PSM9P6XXX(1-1/2)	25.50 - 25.75	1.0000	1.0000
L59	30	MP3-05	25.50 - 25.75	1.0000	1.0000
L59	31	MP3-05	25.50 - 25.75	1.0000	1.0000
L59	32	MP3-05	25.50 - 25.75	1.0000	1.0000
L59	39	CCI 6" x 1" Plate	25.50 - 25.75	1.0000	1.0000
L59	40	CCI 6" x 1" Plate	25.50 - 25.75	1.0000	1.0000
L59	41	CCI 6" x 1" Plate	25.50 - 25.75	1.0000	1.0000
L59	49	CCI 6.5" x 1.25" Plate	25.50 - 25.75	1.0000	1.0000
L59	50	CCI 6.5" x 1.25" Plate	25.50 - 25.75	1.0000	1.0000
L59	51	CCI 6.5" x 1.25" Plate	25.50 - 25.75	1.0000	1.0000
L59	64	CCI 8.5" x 1.25" Plate	25.50 - 25.75	1.0000	1.0000
L59	67	CCI 8.5" x 1.25" Plate	25.50 - 25.75	1.0000	1.0000
L59	68	CCI 8.5" x 1.25" Plate	25.50 -	1.0000	1.0000



Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L59	80	CCI 1.25" x 5.875" Plate	25.75 25.50 - 25.75	1.0000	1.0000
L59	81	CCI 1.25" x 5.875" Plate	25.50 - 25.75	1.0000	1.0000
L59	82	CCI 1.25" x 5.875" Plate	25.50 - 25.75	1.0000	1.0000
L60	2	Safety Line 3/8"	24.67 - 25.50	1.0000	1.0000
L60	3	Climbing Pegs	24.67 - 25.50	1.0000	1.0000
L60	5	LDF7-50A(1-5/8)	24.67 - 25.50	1.0000	1.0000
L60	6	FB-L98B-002-75000(3/8)	24.67 - 25.50	1.0000	1.0000
L60	7	WR-VG86ST-BRD(3/4)	24.67 - 25.50	1.0000	1.0000
L60	8	CONDUIT(2)	24.67 - 25.50	1.0000	1.0000
L60	9	CONDUIT(2)	24.67 - 25.50	1.0000	1.0000
L60	10	LDF7-50A(1-5/8)	24.67 - 25.50	1.0000	1.0000
L60	11	FB-L98B-002-75000(3/8)	24.67 - 25.50	1.0000	1.0000
L60	12	WR-VG86ST-BRD(3/4)	24.67 - 25.50	1.0000	1.0000
L60	17	HB158-21U6S24-xxM_TMO(1-5/8)	24.67 - 25.50	1.0000	1.0000
L60	21	561(1-5/8)	24.67 - 25.50	1.0000	1.0000
L60	25	CU12PSM9P6XXX(1-1/2)	24.67 - 25.50	1.0000	1.0000
L60	30	MP3-05	24.67 - 25.50	1.0000	1.0000
L60	31	MP3-05	24.67 - 25.50	1.0000	1.0000
L60	32	MP3-05	24.67 - 25.50	1.0000	1.0000
L60	39	CCI 6" x 1" Plate	24.67 - 25.50	1.0000	1.0000
L60	40	CCI 6" x 1" Plate	24.67 - 25.50	1.0000	1.0000
L60	41	CCI 6" x 1" Plate	24.67 - 25.50	1.0000	1.0000
L60	49	CCI 6.5" x 1.25" Plate	24.67 - 25.50	1.0000	1.0000
L60	50	CCI 6.5" x 1.25" Plate	24.67 - 25.50	1.0000	1.0000
L60	51	CCI 6.5" x 1.25" Plate	24.67 - 25.50	1.0000	1.0000
L60	64	CCI 8.5" x 1.25" Plate	24.67 - 25.50	1.0000	1.0000
L60	67	CCI 8.5" x 1.25" Plate	24.67 - 25.50	1.0000	1.0000
L60	68	CCI 8.5" x 1.25" Plate	24.67 - 25.50	1.0000	1.0000
L60	75	CCI 1.25" x 5.875" Plate	24.67 - 25.50	1.0000	1.0000
L60	76	CCI 1.25" x 5.875" Plate	24.67 - 25.50	1.0000	1.0000
L60	77	CCI 1.25" x 5.875" Plate	24.67 - 25.50	1.0000	1.0000
L60	78	CCI 1.25" x 5.875" Plate	24.67 - 25.50	1.0000	1.0000
L61	2	Safety Line 3/8"	24.42 - 24.67	1.0000	1.0000
L61	3	Climbing Pegs	24.42 - 24.67	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L61	5	LDF7-50A(1-5/8)	24.42 - 24.67	1.0000	1.0000
L61	6	FB-L98B-002-75000(3/8)	24.42 - 24.67	1.0000	1.0000
L61	7	WR-VG86ST-BRD(3/4)	24.42 - 24.67	1.0000	1.0000
L61	8	CONDUIT(2)	24.42 - 24.67	1.0000	1.0000
L61	9	CONDUIT(2)	24.42 - 24.67	1.0000	1.0000
L61	10	LDF7-50A(1-5/8)	24.42 - 24.67	1.0000	1.0000
L61	11	FB-L98B-002-75000(3/8)	24.42 - 24.67	1.0000	1.0000
L61	12	WR-VG86ST-BRD(3/4)	24.42 - 24.67	1.0000	1.0000
L61	17	HB158-21U6S24- xxM_TMO(1-5/8)	24.42 - 24.67	1.0000	1.0000
L61	21	561(1-5/8)	24.42 - 24.67	1.0000	1.0000
L61	25	CU12PSM9P6XXX(1-1/2)	24.42 - 24.67	1.0000	1.0000
L61	30	MP3-05	24.42 - 24.67	1.0000	1.0000
L61	31	MP3-05	24.42 - 24.67	1.0000	1.0000
L61	32	MP3-05	24.42 - 24.67	1.0000	1.0000
L61	39	CCI 6" x 1" Plate	24.42 - 24.67	1.0000	1.0000
L61	40	CCI 6" x 1" Plate	24.42 - 24.67	1.0000	1.0000
L61	41	CCI 6" x 1" Plate	24.42 - 24.67	1.0000	1.0000
L61	49	CCI 6.5" x 1.25" Plate	24.42 - 24.67	1.0000	1.0000
L61	50	CCI 6.5" x 1.25" Plate	24.42 - 24.67	1.0000	1.0000
L61	51	CCI 6.5" x 1.25" Plate	24.42 - 24.67	1.0000	1.0000
L61	64	CCI 8.5" x 1.25" Plate	24.42 - 24.67	1.0000	1.0000
L61	67	CCI 8.5" x 1.25" Plate	24.42 - 24.67	1.0000	1.0000
L61	68	CCI 8.5" x 1.25" Plate	24.42 - 24.67	1.0000	1.0000
L61	75	CCI 1.25" x 5.875" Plate	24.42 - 24.67	1.0000	1.0000
L61	76	CCI 1.25" x 5.875" Plate	24.42 - 24.67	1.0000	1.0000
L61	77	CCI 1.25" x 5.875" Plate	24.42 - 24.67	1.0000	1.0000
L61	78	CCI 1.25" x 5.875" Plate	24.42 - 24.67	1.0000	1.0000
L62	2	Safety Line 3/8"	24.00 - 24.42	1.0000	1.0000
L62	3	Climbing Pegs	24.00 - 24.42	1.0000	1.0000
L62	5	LDF7-50A(1-5/8)	24.00 - 24.42	1.0000	1.0000
L62	6	FB-L98B-002-75000(3/8)	24.00 - 24.42	1.0000	1.0000
L62	7	WR-VG86ST-BRD(3/4)	24.00 - 24.42	1.0000	1.0000
L62	8	CONDUIT(2)	24.00 - 24.42	1.0000	1.0000
L62	9	CONDUIT(2)	24.00 - 24.42	1.0000	1.0000
L62	10	LDF7-50A(1-5/8)	24.00 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L62	11	FB-L98B-002-75000(3/8)	24.42 24.00 -	1.0000	1.0000
L62	12	WR-VG86ST-BRD(3/4)	24.42 24.00 -	1.0000	1.0000
L62	17	HB158-21U6S24- xxM_TMO(1-5/8)	24.42 24.00 -	1.0000	1.0000
L62	21	561(1-5/8)	24.42 24.00 -	1.0000	1.0000
L62	25	CU12PSM9P6XXX(1-1/2)	24.42 24.00 -	1.0000	1.0000
L62	30	MP3-05	24.42 24.00 -	1.0000	1.0000
L62	31	MP3-05	24.42 24.00 -	1.0000	1.0000
L62	32	MP3-05	24.42 24.00 -	1.0000	1.0000
L62	39	CCI 6" x 1" Plate	24.42 24.00 -	1.0000	1.0000
L62	40	CCI 6" x 1" Plate	24.42 24.00 -	1.0000	1.0000
L62	41	CCI 6" x 1" Plate	24.42 24.00 -	1.0000	1.0000
L62	49	CCI 6.5" x 1.25" Plate	24.42 24.00 -	1.0000	1.0000
L62	50	CCI 6.5" x 1.25" Plate	24.42 24.00 -	1.0000	1.0000
L62	51	CCI 6.5" x 1.25" Plate	24.42 24.00 -	1.0000	1.0000
L62	64	CCI 8.5" x 1.25" Plate	24.42 24.00 -	1.0000	1.0000
L62	67	CCI 8.5" x 1.25" Plate	24.42 24.00 -	1.0000	1.0000
L62	68	CCI 8.5" x 1.25" Plate	24.42 24.00 -	1.0000	1.0000
L62	75	CCI 1.25" x 5.875" Plate	24.42 24.00 -	1.0000	1.0000
L62	76	CCI 1.25" x 5.875" Plate	24.42 24.00 -	1.0000	1.0000
L62	77	CCI 1.25" x 5.875" Plate	24.42 24.00 -	1.0000	1.0000
L62	78	CCI 1.25" x 5.875" Plate	24.42 24.00 -	1.0000	1.0000
L63	2	Safety Line 3/8"	23.75 - 24.00	1.0000	1.0000
L63	3	Climbing Pegs	23.75 - 24.00	1.0000	1.0000
L63	5	LDF7-50A(1-5/8)	23.75 - 24.00	1.0000	1.0000
L63	6	FB-L98B-002-75000(3/8)	23.75 - 24.00	1.0000	1.0000
L63	7	WR-VG86ST-BRD(3/4)	23.75 - 24.00	1.0000	1.0000
L63	8	CONDUIT(2)	23.75 - 24.00	1.0000	1.0000
L63	9	CONDUIT(2)	23.75 - 24.00	1.0000	1.0000
L63	10	LDF7-50A(1-5/8)	23.75 - 24.00	1.0000	1.0000
L63	11	FB-L98B-002-75000(3/8)	23.75 - 24.00	1.0000	1.0000
L63	12	WR-VG86ST-BRD(3/4)	23.75 - 24.00	1.0000	1.0000
L63	17	HB158-21U6S24- xxM_TMO(1-5/8)	23.75 - 24.00	1.0000	1.0000
L63	21	561(1-5/8)	23.75 - 24.00	1.0000	1.0000
L63	25	CU12PSM9P6XXX(1-1/2)	23.75 - 24.00	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L63	30	MP3-05	23.75 - 24.00	1.0000	1.0000
L63	31	MP3-05	23.75 - 24.00	1.0000	1.0000
L63	32	MP3-05	23.75 - 24.00	1.0000	1.0000
L63	39	CCI 6" x 1" Plate	23.75 - 24.00	1.0000	1.0000
L63	40	CCI 6" x 1" Plate	23.75 - 24.00	1.0000	1.0000
L63	41	CCI 6" x 1" Plate	23.75 - 24.00	1.0000	1.0000
L63	49	CCI 6.5" x 1.25" Plate	23.75 - 24.00	1.0000	1.0000
L63	50	CCI 6.5" x 1.25" Plate	23.75 - 24.00	1.0000	1.0000
L63	51	CCI 6.5" x 1.25" Plate	23.75 - 24.00	1.0000	1.0000
L63	64	CCI 8.5" x 1.25" Plate	23.75 - 24.00	1.0000	1.0000
L63	67	CCI 8.5" x 1.25" Plate	23.75 - 24.00	1.0000	1.0000
L63	68	CCI 8.5" x 1.25" Plate	23.75 - 24.00	1.0000	1.0000
L63	75	CCI 1.25" x 5.875" Plate	23.75 - 24.00	1.0000	1.0000
L63	76	CCI 1.25" x 5.875" Plate	23.75 - 24.00	1.0000	1.0000
L63	77	CCI 1.25" x 5.875" Plate	23.75 - 24.00	1.0000	1.0000
L63	78	CCI 1.25" x 5.875" Plate	23.75 - 24.00	1.0000	1.0000
L64	2	Safety Line 3/8"	18.75 - 23.75	1.0000	1.0000
L64	3	Climbing Pegs	18.75 - 23.75	1.0000	1.0000
L64	5	LDF7-50A(1-5/8)	18.75 - 23.75	1.0000	1.0000
L64	6	FB-L98B-002-75000(3/8)	18.75 - 23.75	1.0000	1.0000
L64	7	WR-VG86ST-BRD(3/4)	18.75 - 23.75	1.0000	1.0000
L64	8	CONDUIT(2)	18.75 - 23.75	1.0000	1.0000
L64	9	CONDUIT(2)	18.75 - 23.75	1.0000	1.0000
L64	10	LDF7-50A(1-5/8)	18.75 - 23.75	1.0000	1.0000
L64	11	FB-L98B-002-75000(3/8)	18.75 - 23.75	1.0000	1.0000
L64	12	WR-VG86ST-BRD(3/4)	18.75 - 23.75	1.0000	1.0000
L64	17	HB158-21U6S24-xxM_TMO(1-5/8)	18.75 - 23.75	1.0000	1.0000
L64	21	561(1-5/8)	18.75 - 23.75	1.0000	1.0000
L64	25	CU12PSM9P6XXX(1-1/2)	18.75 - 23.75	1.0000	1.0000
L64	30	MP3-05	18.75 - 23.75	1.0000	1.0000
L64	31	MP3-05	18.75 - 23.75	1.0000	1.0000
L64	32	MP3-05	18.75 - 23.75	1.0000	1.0000
L64	39	CCI 6" x 1" Plate	18.75 - 23.75	1.0000	1.0000
L64	40	CCI 6" x 1" Plate	18.75 - 23.75	1.0000	1.0000
L64	41	CCI 6" x 1" Plate	18.75 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L64	49	CCI 6.5" x 1.25" Plate	23.75 23.00 - 23.75	1.0000	1.0000
L64	50	CCI 6.5" x 1.25" Plate	23.00 - 23.75	1.0000	1.0000
L64	51	CCI 6.5" x 1.25" Plate	23.00 - 23.75	1.0000	1.0000
L64	64	CCI 8.5" x 1.25" Plate	18.75 - 23.75	1.0000	1.0000
L64	67	CCI 8.5" x 1.25" Plate	20.40 - 23.75	1.0000	1.0000
L64	68	CCI 8.5" x 1.25" Plate	20.40 - 23.75	1.0000	1.0000
L64	75	CCI 1.25" x 5.875" Plate	18.75 - 23.75	1.0000	1.0000
L64	76	CCI 1.25" x 5.875" Plate	18.75 - 23.75	1.0000	1.0000
L64	77	CCI 1.25" x 5.875" Plate	18.75 - 23.75	1.0000	1.0000
L64	78	CCI 1.25" x 5.875" Plate	18.75 - 23.75	1.0000	1.0000
L65	2	Safety Line 3/8"	14.08 - 18.75	1.0000	1.0000
L65	3	Climbing Pegs	14.08 - 18.75	1.0000	1.0000
L65	5	LDF7-50A(1-5/8)	14.08 - 18.75	1.0000	1.0000
L65	6	FB-L98B-002-75000(3/8)	14.08 - 18.75	1.0000	1.0000
L65	7	WR-VG86ST-BRD(3/4)	14.08 - 18.75	1.0000	1.0000
L65	8	CONDUIT(2)	14.08 - 18.75	1.0000	1.0000
L65	9	CONDUIT(2)	14.08 - 18.75	1.0000	1.0000
L65	10	LDF7-50A(1-5/8)	14.08 - 18.75	1.0000	1.0000
L65	11	FB-L98B-002-75000(3/8)	14.08 - 18.75	1.0000	1.0000
L65	12	WR-VG86ST-BRD(3/4)	14.08 - 18.75	1.0000	1.0000
L65	17	HB158-21U6S24- xxM_TMO(1-5/8)	14.08 - 18.75	1.0000	1.0000
L65	21	561(1-5/8)	14.08 - 18.75	1.0000	1.0000
L65	25	CU12PSM9P6XXX(1-1/2)	14.08 - 18.75	1.0000	1.0000
L65	30	MP3-05	14.08 - 18.75	1.0000	1.0000
L65	31	MP3-05	14.08 - 18.75	1.0000	1.0000
L65	32	MP3-05	14.08 - 18.75	1.0000	1.0000
L65	36	MP3-04	14.08 - 15.50	1.0000	1.0000
L65	37	MP3-04	14.08 - 15.50	1.0000	1.0000
L65	39	CCI 6" x 1" Plate	14.08 - 18.75	1.0000	1.0000
L65	40	CCI 6" x 1" Plate	14.08 - 18.75	1.0000	1.0000
L65	41	CCI 6" x 1" Plate	14.08 - 18.75	1.0000	1.0000
L65	64	CCI 8.5" x 1.25" Plate	14.08 - 18.75	1.0000	1.0000
L65	75	CCI 1.25" x 5.875" Plate	14.08 - 18.75	1.0000	1.0000
L65	76	CCI 1.25" x 5.875" Plate	14.08 - 18.75	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L65	77	CCI 1.25" x 5.875" Plate	14.08 - 18.75	1.0000	1.0000
L65	78	CCI 1.25" x 5.875" Plate	14.08 - 18.75	1.0000	1.0000
L66	2	Safety Line 3/8"	13.82 - 14.08	1.0000	1.0000
L66	3	Climbing Pegs	13.82 - 14.08	1.0000	1.0000
L66	5	LDF7-50A(1-5/8)	13.82 - 14.08	1.0000	1.0000
L66	6	FB-L98B-002-75000(3/8)	13.82 - 14.08	1.0000	1.0000
L66	7	WR-VG86ST-BRD(3/4)	13.82 - 14.08	1.0000	1.0000
L66	8	CONDUIT(2)	13.82 - 14.08	1.0000	1.0000
L66	9	CONDUIT(2)	13.82 - 14.08	1.0000	1.0000
L66	10	LDF7-50A(1-5/8)	13.82 - 14.08	1.0000	1.0000
L66	11	FB-L98B-002-75000(3/8)	13.82 - 14.08	1.0000	1.0000
L66	12	WR-VG86ST-BRD(3/4)	13.82 - 14.08	1.0000	1.0000
L66	17	HB158-21U6S24-xxM_TMO(1-5/8)	13.82 - 14.08	1.0000	1.0000
L66	21	561(1-5/8)	13.82 - 14.08	1.0000	1.0000
L66	25	CU12PSM9P6XXX(1-1/2)	13.82 - 14.08	1.0000	1.0000
L66	30	MP3-05	13.82 - 14.08	1.0000	1.0000
L66	31	MP3-05	13.82 - 14.08	1.0000	1.0000
L66	32	MP3-05	13.82 - 14.08	1.0000	1.0000
L66	36	MP3-04	13.82 - 14.08	1.0000	1.0000
L66	37	MP3-04	13.82 - 14.08	1.0000	1.0000
L66	39	CCI 6" x 1" Plate	13.82 - 14.08	1.0000	1.0000
L66	40	CCI 6" x 1" Plate	13.82 - 14.08	1.0000	1.0000
L66	41	CCI 6" x 1" Plate	13.82 - 14.08	1.0000	1.0000
L66	64	CCI 8.5" x 1.25" Plate	13.82 - 14.08	1.0000	1.0000
L66	75	CCI 1.25" x 5.875" Plate	13.82 - 14.08	1.0000	1.0000
L66	76	CCI 1.25" x 5.875" Plate	13.82 - 14.08	1.0000	1.0000
L66	77	CCI 1.25" x 5.875" Plate	13.82 - 14.08	1.0000	1.0000
L66	78	CCI 1.25" x 5.875" Plate	13.82 - 14.08	1.0000	1.0000
L67	2	Safety Line 3/8"	13.67 - 13.82	1.0000	1.0000
L67	3	Climbing Pegs	13.67 - 13.82	1.0000	1.0000
L67	5	LDF7-50A(1-5/8)	13.67 - 13.82	1.0000	1.0000
L67	6	FB-L98B-002-75000(3/8)	13.67 - 13.82	1.0000	1.0000
L67	7	WR-VG86ST-BRD(3/4)	13.67 - 13.82	1.0000	1.0000
L67	8	CONDUIT(2)	13.67 - 13.82	1.0000	1.0000
L67	9	CONDUIT(2)	13.67 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L67	10	LDF7-50A(1-5/8)	13.82 13.67 -	1.0000	1.0000
L67	11	FB-L98B-002-75000(3/8)	13.82 13.67 -	1.0000	1.0000
L67	12	WR-VG86ST-BRD(3/4)	13.82 13.67 -	1.0000	1.0000
L67	17	HB158-21U6S24- xxM_TMO(1-5/8)	13.82 13.67 -	1.0000	1.0000
L67	21	561(1-5/8)	13.82 13.67 -	1.0000	1.0000
L67	25	CU12PSM9P6XXX(1-1/2)	13.82 13.67 -	1.0000	1.0000
L67	30	MP3-05	13.82 13.67 -	1.0000	1.0000
L67	31	MP3-05	13.82 13.67 -	1.0000	1.0000
L67	32	MP3-05	13.82 13.67 -	1.0000	1.0000
L67	36	MP3-04	13.82 13.67 -	1.0000	1.0000
L67	37	MP3-04	13.82 13.67 -	1.0000	1.0000
L67	39	CCI 6" x 1" Plate	13.82 13.67 -	1.0000	1.0000
L67	40	CCI 6" x 1" Plate	13.82 13.67 -	1.0000	1.0000
L67	41	CCI 6" x 1" Plate	13.82 13.67 -	1.0000	1.0000
L67	64	CCI 8.5" x 1.25" Plate	13.82 13.67 -	1.0000	1.0000
L67	75	CCI 1.25" x 5.875" Plate	13.82 13.67 -	1.0000	1.0000
L67	76	CCI 1.25" x 5.875" Plate	13.82 13.67 -	1.0000	1.0000
L67	77	CCI 1.25" x 5.875" Plate	13.82 13.67 -	1.0000	1.0000
L67	78	CCI 1.25" x 5.875" Plate	13.82 13.67 -	1.0000	1.0000
L68	2	Safety Line 3/8"	10.50 - 13.67	1.0000	1.0000
L68	3	Climbing Pegs	10.50 - 13.67	1.0000	1.0000
L68	5	LDF7-50A(1-5/8)	10.50 - 13.67	1.0000	1.0000
L68	6	FB-L98B-002-75000(3/8)	10.50 - 13.67	1.0000	1.0000
L68	7	WR-VG86ST-BRD(3/4)	10.50 - 13.67	1.0000	1.0000
L68	8	CONDUIT(2)	10.50 - 13.67	1.0000	1.0000
L68	9	CONDUIT(2)	10.50 - 13.67	1.0000	1.0000
L68	10	LDF7-50A(1-5/8)	10.50 - 13.67	1.0000	1.0000
L68	11	FB-L98B-002-75000(3/8)	10.50 - 13.67	1.0000	1.0000
L68	12	WR-VG86ST-BRD(3/4)	10.50 - 13.67	1.0000	1.0000
L68	17	HB158-21U6S24- xxM_TMO(1-5/8)	10.50 - 13.67	1.0000	1.0000
L68	21	561(1-5/8)	10.50 - 13.67	1.0000	1.0000
L68	25	CU12PSM9P6XXX(1-1/2)	10.50 - 13.67	1.0000	1.0000
L68	30	MP3-05	11.50 - 13.67	1.0000	1.0000
L68	31	MP3-05	10.50 - 13.67	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L68	32	MP3-05	10.50 - 13.67	1.0000	1.0000
L68	36	MP3-04	10.50 - 13.67	1.0000	1.0000
L68	37	MP3-04	10.50 - 13.67	1.0000	1.0000
L68	39	CCI 6" x 1" Plate	10.50 - 13.67	1.0000	1.0000
L68	40	CCI 6" x 1" Plate	10.50 - 13.67	1.0000	1.0000
L68	41	CCI 6" x 1" Plate	10.50 - 13.67	1.0000	1.0000
L68	64	CCI 8.5" x 1.25" Plate	10.50 - 13.67	1.0000	1.0000
L68	75	CCI 1.25" x 5.875" Plate	10.50 - 13.67	1.0000	1.0000
L68	76	CCI 1.25" x 5.875" Plate	10.50 - 13.67	1.0000	1.0000
L68	77	CCI 1.25" x 5.875" Plate	10.50 - 13.67	1.0000	1.0000
L68	78	CCI 1.25" x 5.875" Plate	10.50 - 13.67	1.0000	1.0000
L69	2	Safety Line 3/8"	10.25 - 10.50	1.0000	1.0000
L69	3	Climbing Pegs	10.25 - 10.50	1.0000	1.0000
L69	5	LDF7-50A(1-5/8)	10.25 - 10.50	1.0000	1.0000
L69	6	FB-L98B-002-75000(3/8)	10.25 - 10.50	1.0000	1.0000
L69	7	WR-VG86ST-BRD(3/4)	10.25 - 10.50	1.0000	1.0000
L69	8	CONDUIT(2)	10.25 - 10.50	1.0000	1.0000
L69	9	CONDUIT(2)	10.25 - 10.50	1.0000	1.0000
L69	10	LDF7-50A(1-5/8)	10.25 - 10.50	1.0000	1.0000
L69	11	FB-L98B-002-75000(3/8)	10.25 - 10.50	1.0000	1.0000
L69	12	WR-VG86ST-BRD(3/4)	10.25 - 10.50	1.0000	1.0000
L69	17	HB158-21U6S24-xxM_TMO(1-5/8)	10.25 - 10.50	1.0000	1.0000
L69	21	561(1-5/8)	10.25 - 10.50	1.0000	1.0000
L69	25	CU12PSM9P6XXX(1-1/2)	10.25 - 10.50	1.0000	1.0000
L69	31	MP3-05	10.25 - 10.50	1.0000	1.0000
L69	32	MP3-05	10.25 - 10.50	1.0000	1.0000
L69	36	MP3-04	10.25 - 10.50	1.0000	1.0000
L69	37	MP3-04	10.25 - 10.50	1.0000	1.0000
L69	39	CCI 6" x 1" Plate	10.25 - 10.50	1.0000	1.0000
L69	40	CCI 6" x 1" Plate	10.25 - 10.50	1.0000	1.0000
L69	41	CCI 6" x 1" Plate	10.25 - 10.50	1.0000	1.0000
L69	63	CCI 6" x 1" Plate	10.25 - 10.50	1.0000	1.0000
L69	75	CCI 1.25" x 5.875" Plate	10.25 - 10.50	1.0000	1.0000
L69	76	CCI 1.25" x 5.875" Plate	10.25 - 10.50	1.0000	1.0000
L69	77	CCI 1.25" x 5.875" Plate	10.25 - 10.50	1.0000	1.0000



Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L69	78	CCI 1.25" x 5.875" Plate	10.50 10.25 - 10.50	1.0000	1.0000
L70	2	Safety Line 3/8"	5.25 - 10.25	1.0000	1.0000
L70	3	Climbing Pegs	5.25 - 10.25	1.0000	1.0000
L70	5	LDF7-50A(1-5/8)	6.00 - 10.25	1.0000	1.0000
L70	6	FB-L98B-002-75000(3/8)	6.00 - 10.25	1.0000	1.0000
L70	7	WR-VG86ST-BRD(3/4)	6.00 - 10.25	1.0000	1.0000
L70	8	CONDUIT(2)	6.00 - 10.25	1.0000	1.0000
L70	9	CONDUIT(2)	6.00 - 10.25	1.0000	1.0000
L70	10	LDF7-50A(1-5/8)	6.00 - 10.25	1.0000	1.0000
L70	11	FB-L98B-002-75000(3/8)	6.00 - 10.25	1.0000	1.0000
L70	12	WR-VG86ST-BRD(3/4)	6.00 - 10.25	1.0000	1.0000
L70	17	HB158-21U6S24-xxM_TMO(1-5/8)	5.25 - 10.25	1.0000	1.0000
L70	21	561(1-5/8)	6.00 - 10.25	1.0000	1.0000
L70	25	CU12PSM9P6XXX(1-1/2)	5.25 - 10.25	1.0000	1.0000
L70	31	MP3-05	5.25 - 10.25	1.0000	1.0000
L70	32	MP3-05	5.25 - 10.25	1.0000	1.0000
L70	36	MP3-04	5.25 - 10.25	1.0000	1.0000
L70	37	MP3-04	5.25 - 10.25	1.0000	1.0000
L70	39	CCI 6" x 1" Plate	5.25 - 10.25	1.0000	1.0000
L70	40	CCI 6" x 1" Plate	5.25 - 10.25	1.0000	1.0000
L70	41	CCI 6" x 1" Plate	5.25 - 10.25	1.0000	1.0000
L70	63	CCI 6" x 1" Plate	5.25 - 10.25	1.0000	1.0000
L70	75	CCI 1.25" x 5.875" Plate	5.25 - 10.25	1.0000	1.0000
L70	76	CCI 1.25" x 5.875" Plate	5.25 - 10.25	1.0000	1.0000
L70	77	CCI 1.25" x 5.875" Plate	5.25 - 10.25	1.0000	1.0000
L70	78	CCI 1.25" x 5.875" Plate	5.25 - 10.25	1.0000	1.0000
L71	2	Safety Line 3/8"	2.90 - 5.25	1.0000	1.0000
L71	3	Climbing Pegs	2.90 - 5.25	1.0000	1.0000
L71	17	HB158-21U6S24-xxM_TMO(1-5/8)	2.90 - 5.25	1.0000	1.0000
L71	25	CU12PSM9P6XXX(1-1/2)	2.90 - 5.25	1.0000	1.0000
L71	31	MP3-05	2.90 - 5.25	1.0000	1.0000
L71	32	MP3-05	2.90 - 5.25	1.0000	1.0000
L71	36	MP3-04	2.90 - 5.25	1.0000	1.0000
L71	37	MP3-04	2.90 - 5.25	1.0000	1.0000
L71	39	CCI 6" x 1" Plate	2.90 - 5.25	1.0000	1.0000
L71	40	CCI 6" x 1" Plate	2.90 - 5.25	1.0000	1.0000
L71	41	CCI 6" x 1" Plate	2.90 - 5.25	1.0000	1.0000
L71	63	CCI 6" x 1" Plate	2.90 - 5.25	1.0000	1.0000
L71	75	CCI 1.25" x 5.875" Plate	2.90 - 5.25	1.0000	1.0000
L71	76	CCI 1.25" x 5.875" Plate	2.90 - 5.25	1.0000	1.0000
L71	77	CCI 1.25" x 5.875" Plate	2.90 - 5.25	1.0000	1.0000
L71	78	CCI 1.25" x 5.875" Plate	2.90 - 5.25	1.0000	1.0000
L72	2	Safety Line 3/8"	2.65 - 2.90	1.0000	1.0000
L72	3	Climbing Pegs	2.65 - 2.90	1.0000	1.0000
L72	17	HB158-21U6S24-xxM_TMO(1-5/8)	2.65 - 2.90	1.0000	1.0000
L72	25	CU12PSM9P6XXX(1-1/2)	2.65 - 2.90	1.0000	1.0000
L72	31	MP3-05	2.65 - 2.90	1.0000	1.0000
L72	32	MP3-05	2.65 - 2.90	1.0000	1.0000
L72	36	MP3-04	2.65 - 2.90	1.0000	1.0000
L72	37	MP3-04	2.65 - 2.90	1.0000	1.0000
L72	39	CCI 6" x 1" Plate	2.65 - 2.90	1.0000	1.0000
L72	40	CCI 6" x 1" Plate	2.65 - 2.90	1.0000	1.0000
L72	41	CCI 6" x 1" Plate	2.65 - 2.90	1.0000	1.0000
L72	63	CCI 6" x 1" Plate	2.65 - 2.90	1.0000	1.0000
L72	75	CCI 1.25" x 5.875" Plate	2.65 - 2.90	1.0000	1.0000
L72	76	CCI 1.25" x 5.875" Plate	2.65 - 2.90	1.0000	1.0000
L72	77	CCI 1.25" x 5.875" Plate	2.65 - 2.90	1.0000	1.0000
L72	78	CCI 1.25" x 5.875" Plate	2.65 - 2.90	1.0000	1.0000
L73	2	Safety Line 3/8"	2.50 - 2.65	1.0000	1.0000
L73	3	Climbing Pegs	2.50 - 2.65	1.0000	1.0000
L73	17	HB158-21U6S24-xxM_TMO(1-5/8)	2.50 - 2.65	1.0000	1.0000
L73	25	CU12PSM9P6XXX(1-1/2)	2.50 - 2.65	1.0000	1.0000
L73	31	MP3-05	2.50 - 2.65	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L73	32	MP3-05	2.50 - 2.65	1.0000	1.0000
L73	36	MP3-04	2.50 - 2.65	1.0000	1.0000
L73	37	MP3-04	2.50 - 2.65	1.0000	1.0000
L73	39	CCI 6" x 1" Plate	2.50 - 2.65	1.0000	1.0000
L73	40	CCI 6" x 1" Plate	2.50 - 2.65	1.0000	1.0000
L73	41	CCI 6" x 1" Plate	2.50 - 2.65	1.0000	1.0000
L73	63	CCI 6" x 1" Plate	2.50 - 2.65	1.0000	1.0000
L73	75	CCI 1.25" x 5.875" Plate	2.50 - 2.65	1.0000	1.0000
L73	76	CCI 1.25" x 5.875" Plate	2.50 - 2.65	1.0000	1.0000
L73	77	CCI 1.25" x 5.875" Plate	2.50 - 2.65	1.0000	1.0000
L73	78	CCI 1.25" x 5.875" Plate	2.50 - 2.65	1.0000	1.0000
L74	2	Safety Line 3/8"	2.25 - 2.50	1.0000	1.0000
L74	3	Climbing Pegs	2.25 - 2.50	1.0000	1.0000
L74	17	HB158-21U6S24-xxM_TMO(1-5/8)	2.25 - 2.50	1.0000	1.0000
L74	25	CU12PSM9P6XXX(1-1/2)	2.25 - 2.50	1.0000	1.0000
L74	31	MP3-05	2.25 - 2.50	1.0000	1.0000
L74	32	MP3-05	2.25 - 2.50	1.0000	1.0000
L74	36	MP3-04	2.25 - 2.50	1.0000	1.0000
L74	37	MP3-04	2.25 - 2.50	1.0000	1.0000
L74	39	CCI 6" x 1" Plate	2.25 - 2.50	1.0000	1.0000
L74	40	CCI 6" x 1" Plate	2.25 - 2.50	1.0000	1.0000
L74	41	CCI 6" x 1" Plate	2.25 - 2.50	1.0000	1.0000
L74	63	CCI 6" x 1" Plate	2.25 - 2.50	1.0000	1.0000
L74	75	CCI 1.25" x 5.875" Plate	2.25 - 2.50	1.0000	1.0000
L74	76	CCI 1.25" x 5.875" Plate	2.25 - 2.50	1.0000	1.0000
L74	77	CCI 1.25" x 5.875" Plate	2.25 - 2.50	1.0000	1.0000
L74	78	CCI 1.25" x 5.875" Plate	2.25 - 2.50	1.0000	1.0000
L75	2	Safety Line 3/8"	1.92 - 2.25	1.0000	1.0000
L75	3	Climbing Pegs	1.92 - 2.25	1.0000	1.0000
L75	17	HB158-21U6S24-xxM_TMO(1-5/8)	1.92 - 2.25	1.0000	1.0000
L75	25	CU12PSM9P6XXX(1-1/2)	1.92 - 2.25	1.0000	1.0000
L75	31	MP3-05	1.92 - 2.25	1.0000	1.0000
L75	32	MP3-05	1.92 - 2.25	1.0000	1.0000
L75	36	MP3-04	1.92 - 2.25	1.0000	1.0000
L75	37	MP3-04	1.92 - 2.25	1.0000	1.0000
L75	39	CCI 6" x 1" Plate	1.92 - 2.25	1.0000	1.0000
L75	40	CCI 6" x 1" Plate	1.92 - 2.25	1.0000	1.0000
L75	41	CCI 6" x 1" Plate	1.92 - 2.25	1.0000	1.0000
L75	63	CCI 6" x 1" Plate	1.92 - 2.25	1.0000	1.0000
L75	75	CCI 1.25" x 5.875" Plate	1.92 - 2.25	1.0000	1.0000
L75	76	CCI 1.25" x 5.875" Plate	1.92 - 2.25	1.0000	1.0000
L75	77	CCI 1.25" x 5.875" Plate	1.92 - 2.25	1.0000	1.0000
L75	78	CCI 1.25" x 5.875" Plate	1.92 - 2.25	1.0000	1.0000
L76	2	Safety Line 3/8"	1.67 - 1.92	1.0000	1.0000
L76	3	Climbing Pegs	1.67 - 1.92	1.0000	1.0000
L76	17	HB158-21U6S24-xxM_TMO(1-5/8)	1.67 - 1.92	1.0000	1.0000
L76	25	CU12PSM9P6XXX(1-1/2)	1.67 - 1.92	1.0000	1.0000
L76	31	MP3-05	1.67 - 1.92	1.0000	1.0000
L76	32	MP3-05	1.67 - 1.92	1.0000	1.0000
L76	36	MP3-04	1.67 - 1.92	1.0000	1.0000
L76	37	MP3-04	1.67 - 1.92	1.0000	1.0000
L76	39	CCI 6" x 1" Plate	1.67 - 1.92	1.0000	1.0000
L76	40	CCI 6" x 1" Plate	1.67 - 1.92	1.0000	1.0000
L76	41	CCI 6" x 1" Plate	1.67 - 1.92	1.0000	1.0000
L76	63	CCI 6" x 1" Plate	1.67 - 1.92	1.0000	1.0000
L76	75	CCI 1.25" x 5.875" Plate	1.67 - 1.92	1.0000	1.0000
L76	76	CCI 1.25" x 5.875" Plate	1.67 - 1.92	1.0000	1.0000
L76	77	CCI 1.25" x 5.875" Plate	1.67 - 1.92	1.0000	1.0000
L76	78	CCI 1.25" x 5.875" Plate	1.67 - 1.92	1.0000	1.0000
L77	2	Safety Line 3/8"	0.00 - 1.67	1.0000	1.0000
L77	3	Climbing Pegs	0.00 - 1.67	1.0000	1.0000
L77	17	HB158-21U6S24-xxM_TMO(1-5/8)	0.00 - 1.67	1.0000	1.0000
L77	25	CU12PSM9P6XXX(1-1/2)	0.00 - 1.67	1.0000	1.0000
L77	31	MP3-05	0.00 - 1.67	1.0000	1.0000
L77	32	MP3-05	0.00 - 1.67	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	$K_a$ No Ice	$K_a$ Ice
L77	36	MP3-04	0.00 - 1.67	1.0000	1.0000
L77	37	MP3-04	0.00 - 1.67	1.0000	1.0000
L77	39	CCI 6" x 1" Plate	0.00 - 1.67	1.0000	1.0000
L77	40	CCI 6" x 1" Plate	0.00 - 1.67	1.0000	1.0000
L77	41	CCI 6" x 1" Plate	0.00 - 1.67	1.0000	1.0000
L77	63	CCI 6" x 1" Plate	0.00 - 1.67	1.0000	1.0000
L77	75	CCI 1.25" x 5.875" Plate	0.00 - 1.67	1.0000	1.0000
L77	76	CCI 1.25" x 5.875" Plate	0.00 - 1.67	1.0000	1.0000
L77	77	CCI 1.25" x 5.875" Plate	0.00 - 1.67	1.0000	1.0000
L77	78	CCI 1.25" x 5.875" Plate	0.00 - 1.67	1.0000	1.0000

**Effective Width of Flat Linear Attachments / Feed Lines**

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L9	71	CCI 6" x 1" Plate	121.33 - 122.60	Auto	0.0000
L9	72	CCI 6" x 1" Plate	121.33 - 122.60	Auto	0.0000
L9	73	CCI 6" x 1" Plate	121.33 - 122.60	Auto	0.0000
L10	71	CCI 6" x 1" Plate	120.08 - 121.33	Auto	0.0000
L10	72	CCI 6" x 1" Plate	120.08 - 121.33	Auto	0.0000
L10	73	CCI 6" x 1" Plate	120.08 - 121.33	Auto	0.0000
L11	71	CCI 6" x 1" Plate	119.83 - 120.08	Auto	0.0174
L11	72	CCI 6" x 1" Plate	119.83 - 120.08	Auto	0.0174
L11	73	CCI 6" x 1" Plate	119.83 - 120.08	Auto	0.0174
L12	61	CCI 4.5" x 1" Plate	117.50 - 119.00	Auto	0.0000
L12	71	CCI 6" x 1" Plate	117.50 - 119.83	Auto	0.0069
L12	72	CCI 6" x 1" Plate	117.50 - 119.83	Auto	0.0069
L12	73	CCI 6" x 1" Plate	117.50 - 119.83	Auto	0.0069
L13	61	CCI 4.5" x 1" Plate	117.25 - 117.50	Auto	0.0000
L13	71	CCI 6" x 1" Plate	117.25 - 117.50	Auto	0.0016
L13	72	CCI 6" x 1" Plate	117.25 - 117.50	Auto	0.0016
L13	73	CCI 6" x 1" Plate	117.25 - 117.50	Auto	0.0016
L14	59	CCI 4.5" x 1" Plate	115.50 - 117.00	Auto	0.0000
L14	60	CCI 4.5" x 1" Plate	115.50 - 117.00	Auto	0.0000
L14	61	CCI 4.5" x 1" Plate	115.50 - 117.25	Auto	0.0000
L14	71	CCI 6" x 1" Plate	115.50 - 117.25	Auto	0.0000
L14	72	CCI 6" x 1" Plate	115.50 - 117.25	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L14	73	CCI 6" x 1" Plate	115.50 - 117.25	Auto	0.0000
L15	59	CCI 4.5" x 1" Plate	115.25 - 115.50	Auto	0.0000
L15	60	CCI 4.5" x 1" Plate	115.25 - 115.50	Auto	0.0000
L15	61	CCI 4.5" x 1" Plate	115.25 - 115.50	Auto	0.0000
L15	71	CCI 6" x 1" Plate	115.25 - 115.50	Auto	0.0577
L15	72	CCI 6" x 1" Plate	115.25 - 115.50	Auto	0.0577
L15	73	CCI 6" x 1" Plate	115.25 - 115.50	Auto	0.0577
L16	59	CCI 4.5" x 1" Plate	110.25 - 115.25	Auto	0.0000
L16	60	CCI 4.5" x 1" Plate	110.25 - 115.25	Auto	0.0000
L16	61	CCI 4.5" x 1" Plate	110.25 - 115.25	Auto	0.0000
L16	71	CCI 6" x 1" Plate	110.25 - 115.25	Auto	0.0305
L16	72	CCI 6" x 1" Plate	110.25 - 115.25	Auto	0.0305
L16	73	CCI 6" x 1" Plate	110.25 - 115.25	Auto	0.0305
L17	59	CCI 4.5" x 1" Plate	104.08 - 110.25	Auto	0.0000
L17	60	CCI 4.5" x 1" Plate	104.08 - 110.25	Auto	0.0000
L17	61	CCI 4.5" x 1" Plate	104.08 - 110.25	Auto	0.0000
L17	71	CCI 6" x 1" Plate	104.08 - 110.25	Auto	0.0002
L17	72	CCI 6" x 1" Plate	104.08 - 110.25	Auto	0.0002
L17	73	CCI 6" x 1" Plate	104.08 - 110.25	Auto	0.0002
L18	59	CCI 4.5" x 1" Plate	102.82 - 104.08	Auto	0.0000
L18	60	CCI 4.5" x 1" Plate	102.82 - 104.08	Auto	0.0000
L18	61	CCI 4.5" x 1" Plate	102.82 - 104.08	Auto	0.0000
L18	71	CCI 6" x 1" Plate	102.82 - 104.08	Auto	0.0006
L18	72	CCI 6" x 1" Plate	102.82 - 104.08	Auto	0.0006
L18	73	CCI 6" x 1" Plate	102.82 - 104.08	Auto	0.0006
L19	59	CCI 4.5" x 1" Plate	100.50 - 102.82	Auto	0.0000
L19	60	CCI 4.5" x 1" Plate	100.50 - 102.82	Auto	0.0000
L19	61	CCI 4.5" x 1" Plate	100.50 - 102.82	Auto	0.0000
L19	71	CCI 6" x 1" Plate	100.50 - 102.82	Auto	0.0000
L19	72	CCI 6" x 1" Plate	100.50 - 102.82	Auto	0.0000
L19	73	CCI 6" x 1" Plate	100.60 - 102.82	Auto	0.0000
L20	45	CCI 6" x 1" Plate	100.25 - 100.50	Auto	0.0000
L20	46	CCI 6" x 1" Plate	100.25 - 100.50	Auto	0.0000
L20	47	CCI 6" x 1" Plate	100.25 - 100.50	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L20	59	CCI 4.5" x 1" Plate	100.25 - 100.50	Auto	0.0000
L20	60	CCI 4.5" x 1" Plate	100.25 - 100.50	Auto	0.0000
L20	61	CCI 4.5" x 1" Plate	100.25 - 100.50	Auto	0.0000
L20	71	CCI 6" x 1" Plate	100.25 - 100.50	Auto	0.0000
L20	72	CCI 6" x 1" Plate	100.25 - 100.50	Auto	0.0000
L21	45	CCI 6" x 1" Plate	98.50 - 100.25	Auto	0.0000
L21	46	CCI 6" x 1" Plate	98.50 - 100.25	Auto	0.0000
L21	47	CCI 6" x 1" Plate	98.50 - 100.25	Auto	0.0000
L21	59	CCI 4.5" x 1" Plate	98.50 - 100.25	Auto	0.0000
L21	60	CCI 4.5" x 1" Plate	98.50 - 100.25	Auto	0.0000
L21	61	CCI 4.5" x 1" Plate	99.00 - 100.25	Auto	0.0000
L21	71	CCI 6" x 1" Plate	98.50 - 100.25	Auto	0.0000
L21	72	CCI 6" x 1" Plate	98.50 - 100.25	Auto	0.0000
L22	45	CCI 6" x 1" Plate	98.25 - 98.50	Auto	0.0000
L22	46	CCI 6" x 1" Plate	98.25 - 98.50	Auto	0.0000
L22	47	CCI 6" x 1" Plate	98.25 - 98.50	Auto	0.0000
L22	59	CCI 4.5" x 1" Plate	98.25 - 98.50	Auto	0.0000
L22	60	CCI 4.5" x 1" Plate	98.25 - 98.50	Auto	0.0000
L22	71	CCI 6" x 1" Plate	98.25 - 98.50	Auto	0.0000
L22	72	CCI 6" x 1" Plate	98.25 - 98.50	Auto	0.0000
L23	45	CCI 6" x 1" Plate	93.25 - 98.25	Auto	0.0000
L23	46	CCI 6" x 1" Plate	93.25 - 98.25	Auto	0.0000
L23	47	CCI 6" x 1" Plate	93.25 - 98.25	Auto	0.0000
L23	59	CCI 4.5" x 1" Plate	97.00 - 98.25	Auto	0.0000
L23	60	CCI 4.5" x 1" Plate	97.00 - 98.25	Auto	0.0000
L23	71	CCI 6" x 1" Plate	93.25 - 98.25	Auto	0.0000
L23	72	CCI 6" x 1" Plate	93.25 - 98.25	Auto	0.0000
L24	45	CCI 6" x 1" Plate	90.50 - 93.25	Auto	0.0000
L24	46	CCI 6" x 1" Plate	90.50 - 93.25	Auto	0.0000
L24	47	CCI 6" x 1" Plate	90.50 - 93.25	Auto	0.0000
L24	71	CCI 6" x 1" Plate	90.60 - 93.25	Auto	0.0000
L24	72	CCI 6" x 1" Plate	90.60 - 93.25	Auto	0.0000
L25	45	CCI 6" x 1" Plate	90.25 - 90.50	Auto	0.0000
L25	46	CCI 6" x 1" Plate	90.25 - 90.50	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L25	47	CCI 6" x 1" Plate	90.25 - 90.50	Auto	0.0000
L25	69	CCI 8.5" x 1.25" Plate	90.25 - 90.50	Auto	0.2129
L25	70	CCI 8.5" x 1.25" Plate	90.25 - 90.50	Auto	0.2129
L26	45	CCI 6" x 1" Plate	85.25 - 90.25	Auto	0.0000
L26	46	CCI 6" x 1" Plate	85.25 - 90.25	Auto	0.0000
L26	47	CCI 6" x 1" Plate	85.25 - 90.25	Auto	0.0000
L26	55	CCI 6.5" x 1.25" Plate	85.25 - 85.50	Auto	0.0000
L26	56	CCI 6.5" x 1.25" Plate	85.25 - 85.50	Auto	0.0000
L26	57	CCI 6.5" x 1.25" Plate	85.25 - 85.50	Auto	0.0000
L26	69	CCI 8.5" x 1.25" Plate	85.25 - 90.25	Auto	0.1937
L26	70	CCI 8.5" x 1.25" Plate	85.25 - 90.25	Auto	0.1937
L27	45	CCI 6" x 1" Plate	83.50 - 85.25	Auto	0.0000
L27	46	CCI 6" x 1" Plate	83.50 - 85.25	Auto	0.0000
L27	47	CCI 6" x 1" Plate	83.50 - 85.25	Auto	0.0000
L27	55	CCI 6.5" x 1.25" Plate	83.50 - 85.25	Auto	0.0000
L27	56	CCI 6.5" x 1.25" Plate	83.50 - 85.25	Auto	0.0000
L27	57	CCI 6.5" x 1.25" Plate	83.50 - 85.25	Auto	0.0000
L27	65	CCI 8.5" x 1.25" Plate	83.50 - 85.00	Auto	0.1694
L27	69	CCI 8.5" x 1.25" Plate	83.50 - 85.25	Auto	0.1701
L27	70	CCI 8.5" x 1.25" Plate	83.50 - 85.25	Auto	0.1701
L28	45	CCI 6" x 1" Plate	83.25 - 83.50	Auto	0.0000
L28	46	CCI 6" x 1" Plate	83.25 - 83.50	Auto	0.0000
L28	47	CCI 6" x 1" Plate	83.25 - 83.50	Auto	0.0000
L28	55	CCI 6.5" x 1.25" Plate	83.25 - 83.50	Auto	0.0102
L28	56	CCI 6.5" x 1.25" Plate	83.25 - 83.50	Auto	0.0102
L28	57	CCI 6.5" x 1.25" Plate	83.25 - 83.50	Auto	0.0102
L28	65	CCI 8.5" x 1.25" Plate	83.25 - 83.50	Auto	0.2431
L28	69	CCI 8.5" x 1.25" Plate	83.25 - 83.50	Auto	0.2431
L28	70	CCI 8.5" x 1.25" Plate	83.25 - 83.50	Auto	0.2431
L29	45	CCI 6" x 1" Plate	80.75 - 83.25	Auto	0.0000
L29	46	CCI 6" x 1" Plate	80.75 - 83.25	Auto	0.0000
L29	47	CCI 6" x 1" Plate	80.75 - 83.25	Auto	0.0000
L29	55	CCI 6.5" x 1.25" Plate	80.75 - 83.25	Auto	0.0000
L29	56	CCI 6.5" x 1.25" Plate	80.75 - 83.25	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L29	57	CCI 6.5" x 1.25" Plate	80.75 - 83.25	Auto	0.0000
L29	65	CCI 8.5" x 1.25" Plate	80.75 - 83.25	Auto	0.2272
L29	69	CCI 8.5" x 1.25" Plate	80.75 - 83.25	Auto	0.2272
L29	70	CCI 8.5" x 1.25" Plate	80.75 - 83.25	Auto	0.2272
L30	45	CCI 6" x 1" Plate	80.50 - 80.75	Auto	0.0000
L30	46	CCI 6" x 1" Plate	80.50 - 80.75	Auto	0.0000
L30	47	CCI 6" x 1" Plate	80.50 - 80.75	Auto	0.0000
L30	55	CCI 6.5" x 1.25" Plate	80.50 - 80.75	Auto	0.0511
L30	56	CCI 6.5" x 1.25" Plate	80.50 - 80.75	Auto	0.0511
L30	57	CCI 6.5" x 1.25" Plate	80.50 - 80.75	Auto	0.0511
L30	65	CCI 8.5" x 1.25" Plate	80.50 - 80.75	Auto	0.2744
L30	69	CCI 8.5" x 1.25" Plate	80.50 - 80.75	Auto	0.2744
L30	70	CCI 8.5" x 1.25" Plate	80.50 - 80.75	Auto	0.2744
L31	45	CCI 6" x 1" Plate	80.25 - 80.50	Auto	0.0000
L31	46	CCI 6" x 1" Plate	80.25 - 80.50	Auto	0.0000
L31	47	CCI 6" x 1" Plate	80.25 - 80.50	Auto	0.0000
L31	55	CCI 6.5" x 1.25" Plate	80.25 - 80.50	Auto	0.0131
L31	56	CCI 6.5" x 1.25" Plate	80.25 - 80.50	Auto	0.0131
L31	57	CCI 6.5" x 1.25" Plate	80.25 - 80.50	Auto	0.0131
L31	65	CCI 8.5" x 1.25" Plate	80.25 - 80.50	Auto	0.2453
L31	69	CCI 8.5" x 1.25" Plate	80.25 - 80.50	Auto	0.2453
L31	70	CCI 8.5" x 1.25" Plate	80.25 - 80.50	Auto	0.2453
L32	45	CCI 6" x 1" Plate	77.50 - 80.25	Auto	0.0000
L32	46	CCI 6" x 1" Plate	77.50 - 80.25	Auto	0.0000
L32	47	CCI 6" x 1" Plate	77.50 - 80.25	Auto	0.0000
L32	55	CCI 6.5" x 1.25" Plate	77.50 - 80.25	Auto	0.0012
L32	56	CCI 6.5" x 1.25" Plate	77.50 - 80.25	Auto	0.0012
L32	57	CCI 6.5" x 1.25" Plate	77.50 - 80.25	Auto	0.0012
L32	65	CCI 8.5" x 1.25" Plate	77.50 - 80.25	Auto	0.2327
L32	69	CCI 8.5" x 1.25" Plate	77.50 - 80.25	Auto	0.2327
L32	70	CCI 8.5" x 1.25" Plate	77.50 - 80.25	Auto	0.2327
L33	45	CCI 6" x 1" Plate	77.25 - 77.50	Auto	0.0000
L33	46	CCI 6" x 1" Plate	77.25 - 77.50	Auto	0.0000
L33	47	CCI 6" x 1" Plate	77.25 - 77.50	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L33	55	CCI 6.5" x 1.25" Plate	77.25 - 77.50	Auto	0.0000
L33	56	CCI 6.5" x 1.25" Plate	77.25 - 77.50	Auto	0.0000
L33	57	CCI 6.5" x 1.25" Plate	77.25 - 77.50	Auto	0.0000
L33	65	CCI 8.5" x 1.25" Plate	77.25 - 77.50	Auto	0.1372
L33	69	CCI 8.5" x 1.25" Plate	77.25 - 77.50	Auto	0.1372
L33	70	CCI 8.5" x 1.25" Plate	77.25 - 77.50	Auto	0.1372
L34	45	CCI 6" x 1" Plate	68.82 - 77.25	Auto	0.0000
L34	46	CCI 6" x 1" Plate	68.82 - 77.25	Auto	0.0000
L34	47	CCI 6" x 1" Plate	68.82 - 77.25	Auto	0.0000
L34	55	CCI 6.5" x 1.25" Plate	72.50 - 77.25	Auto	0.0000
L34	56	CCI 6.5" x 1.25" Plate	72.50 - 77.25	Auto	0.0000
L34	57	CCI 6.5" x 1.25" Plate	72.50 - 77.25	Auto	0.0000
L34	65	CCI 8.5" x 1.25" Plate	68.82 - 77.25	Auto	0.1120
L34	69	CCI 8.5" x 1.25" Plate	68.82 - 77.25	Auto	0.1120
L34	70	CCI 8.5" x 1.25" Plate	68.82 - 77.25	Auto	0.1120
L35	45	CCI 6" x 1" Plate	68.29 - 68.82	Auto	0.0000
L35	46	CCI 6" x 1" Plate	68.29 - 68.82	Auto	0.0000
L35	47	CCI 6" x 1" Plate	68.29 - 68.82	Auto	0.0000
L35	65	CCI 8.5" x 1.25" Plate	68.29 - 68.82	Auto	0.1253
L35	69	CCI 8.5" x 1.25" Plate	68.29 - 68.82	Auto	0.1253
L35	70	CCI 8.5" x 1.25" Plate	68.29 - 68.82	Auto	0.1253
L36	45	CCI 6" x 1" Plate	64.25 - 68.29	Auto	0.0000
L36	46	CCI 6" x 1" Plate	64.25 - 68.29	Auto	0.0000
L36	47	CCI 6" x 1" Plate	64.25 - 68.29	Auto	0.0000
L36	52	CCI 6.5" x 1.25" Plate	64.25 - 67.00	Auto	0.0000
L36	53	CCI 6.5" x 1.25" Plate	64.25 - 67.00	Auto	0.0000
L36	54	CCI 6.5" x 1.25" Plate	64.25 - 67.00	Auto	0.0000
L36	65	CCI 8.5" x 1.25" Plate	64.25 - 68.29	Auto	0.1081
L36	69	CCI 8.5" x 1.25" Plate	64.25 - 68.29	Auto	0.1081
L36	70	CCI 8.5" x 1.25" Plate	64.25 - 68.29	Auto	0.1081
L37	45	CCI 6" x 1" Plate	64.00 - 64.25	Auto	0.0000
L37	46	CCI 6" x 1" Plate	64.00 - 64.25	Auto	0.0000
L37	47	CCI 6" x 1" Plate	64.00 - 64.25	Auto	0.0000
L37	52	CCI 6.5" x 1.25" Plate	64.00 - 64.25	Auto	0.0000



Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L37	53	CCI 6.5" x 1.25" Plate	64.00 - 64.25	Auto	0.0000
L37	54	CCI 6.5" x 1.25" Plate	64.00 - 64.25	Auto	0.0000
L37	65	CCI 8.5" x 1.25" Plate	64.00 - 64.25	Auto	0.1389
L37	69	CCI 8.5" x 1.25" Plate	64.00 - 64.25	Auto	0.1389
L37	70	CCI 8.5" x 1.25" Plate	64.00 - 64.25	Auto	0.1389
L38	35	MP3-04	60.50 - 61.50	Auto	0.0000
L38	45	CCI 6" x 1" Plate	60.50 - 64.00	Auto	0.0000
L38	46	CCI 6" x 1" Plate	60.50 - 64.00	Auto	0.0000
L38	47	CCI 6" x 1" Plate	60.50 - 64.00	Auto	0.0000
L38	52	CCI 6.5" x 1.25" Plate	60.50 - 64.00	Auto	0.0000
L38	53	CCI 6.5" x 1.25" Plate	60.50 - 64.00	Auto	0.0000
L38	54	CCI 6.5" x 1.25" Plate	60.50 - 64.00	Auto	0.0000
L38	65	CCI 8.5" x 1.25" Plate	60.50 - 64.00	Auto	0.1241
L38	69	CCI 8.5" x 1.25" Plate	60.50 - 64.00	Auto	0.1241
L38	70	CCI 8.5" x 1.25" Plate	60.50 - 64.00	Auto	0.1241
L39	33	MP3-04	60.25 - 60.50	Auto	0.0000
L39	34	MP3-04	60.25 - 60.50	Auto	0.0000
L39	35	MP3-04	60.25 - 60.50	Auto	0.0000
L39	42	CCI 6.5" x 1.25" Plate	60.25 - 60.50	Auto	0.0000
L39	43	CCI 6.5" x 1.25" Plate	60.25 - 60.50	Auto	0.0000
L39	44	CCI 6.5" x 1.25" Plate	60.25 - 60.50	Auto	0.0000
L39	52	CCI 6.5" x 1.25" Plate	60.25 - 60.50	Auto	0.0000
L39	53	CCI 6.5" x 1.25" Plate	60.25 - 60.50	Auto	0.0000
L39	54	CCI 6.5" x 1.25" Plate	60.25 - 60.50	Auto	0.0000
L39	65	CCI 8.5" x 1.25" Plate	60.25 - 60.50	Auto	0.1329
L39	69	CCI 8.5" x 1.25" Plate	60.25 - 60.50	Auto	0.1329
L39	70	CCI 8.5" x 1.25" Plate	60.25 - 60.50	Auto	0.1329
L40	33	MP3-04	60.08 - 60.25	Auto	0.0000
L40	34	MP3-04	60.08 - 60.25	Auto	0.0000
L40	35	MP3-04	60.08 - 60.25	Auto	0.0000
L40	42	CCI 6.5" x 1.25" Plate	60.08 - 60.25	Auto	0.0000
L40	43	CCI 6.5" x 1.25" Plate	60.08 - 60.25	Auto	0.0000
L40	44	CCI 6.5" x 1.25" Plate	60.08 - 60.25	Auto	0.0000
L40	52	CCI 6.5" x 1.25" Plate	60.08 - 60.25	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L40	53	CCI 6.5" x 1.25" Plate	60.08 - 60.25	Auto	0.0000
L40	54	CCI 6.5" x 1.25" Plate	60.08 - 60.25	Auto	0.0000
L40	65	CCI 8.5" x 1.25" Plate	60.08 - 60.25	Auto	0.1316
L40	69	CCI 8.5" x 1.25" Plate	60.08 - 60.25	Auto	0.1316
L40	70	CCI 8.5" x 1.25" Plate	60.08 - 60.25	Auto	0.1316
L41	33	MP3-04	59.83 - 60.08	Auto	0.0000
L41	34	MP3-04	59.83 - 60.08	Auto	0.0000
L41	35	MP3-04	59.83 - 60.08	Auto	0.0000
L41	42	CCI 6.5" x 1.25" Plate	59.83 - 60.08	Auto	0.0000
L41	43	CCI 6.5" x 1.25" Plate	59.83 - 60.08	Auto	0.0000
L41	44	CCI 6.5" x 1.25" Plate	59.83 - 60.08	Auto	0.0000
L41	52	CCI 6.5" x 1.25" Plate	59.83 - 60.08	Auto	0.0000
L41	53	CCI 6.5" x 1.25" Plate	59.83 - 60.08	Auto	0.0000
L41	54	CCI 6.5" x 1.25" Plate	59.83 - 60.08	Auto	0.0000
L41	65	CCI 8.5" x 1.25" Plate	60.00 - 60.08	Auto	0.1467
L41	69	CCI 8.5" x 1.25" Plate	59.83 - 60.08	Auto	0.1462
L41	70	CCI 8.5" x 1.25" Plate	59.83 - 60.08	Auto	0.1462
L42	33	MP3-04	59.08 - 59.83	Auto	0.0000
L42	34	MP3-04	59.08 - 59.83	Auto	0.0000
L42	35	MP3-04	59.08 - 59.83	Auto	0.0000
L42	42	CCI 6.5" x 1.25" Plate	59.08 - 59.83	Auto	0.0000
L42	43	CCI 6.5" x 1.25" Plate	59.08 - 59.83	Auto	0.0000
L42	44	CCI 6.5" x 1.25" Plate	59.08 - 59.83	Auto	0.0000
L42	52	CCI 6.5" x 1.25" Plate	59.08 - 59.83	Auto	0.0000
L42	53	CCI 6.5" x 1.25" Plate	59.08 - 59.83	Auto	0.0000
L42	54	CCI 6.5" x 1.25" Plate	59.08 - 59.83	Auto	0.0000
L42	69	CCI 8.5" x 1.25" Plate	59.08 - 59.83	Auto	0.1433
L42	70	CCI 8.5" x 1.25" Plate	59.08 - 59.83	Auto	0.1433
L43	33	MP3-04	58.83 - 59.08	Auto	0.0000
L43	34	MP3-04	58.83 - 59.08	Auto	0.0000
L43	35	MP3-04	58.83 - 59.08	Auto	0.0000
L43	42	CCI 6.5" x 1.25" Plate	58.83 - 59.08	Auto	0.0000
L43	43	CCI 6.5" x 1.25" Plate	58.83 - 59.08	Auto	0.0000
L43	44	CCI 6.5" x 1.25" Plate	58.83 - 59.08	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L43	52	CCI 6.5" x 1.25" Plate	58.83 - 59.08	Auto	0.0000
L43	53	CCI 6.5" x 1.25" Plate	58.83 - 59.08	Auto	0.0000
L43	54	CCI 6.5" x 1.25" Plate	58.83 - 59.08	Auto	0.0000
L43	69	CCI 8.5" x 1.25" Plate	58.83 - 59.08	Auto	0.1640
L43	70	CCI 8.5" x 1.25" Plate	58.83 - 59.08	Auto	0.1640
L44	33	MP3-04	55.42 - 58.83	Auto	0.0000
L44	34	MP3-04	55.42 - 58.83	Auto	0.0000
L44	35	MP3-04	55.42 - 58.83	Auto	0.0000
L44	42	CCI 6.5" x 1.25" Plate	55.42 - 58.83	Auto	0.0000
L44	43	CCI 6.5" x 1.25" Plate	55.42 - 58.83	Auto	0.0000
L44	44	CCI 6.5" x 1.25" Plate	55.42 - 58.83	Auto	0.0000
L44	52	CCI 6.5" x 1.25" Plate	55.42 - 58.83	Auto	0.0000
L44	53	CCI 6.5" x 1.25" Plate	55.42 - 58.83	Auto	0.0000
L44	54	CCI 6.5" x 1.25" Plate	55.42 - 58.83	Auto	0.0000
L44	69	CCI 8.5" x 1.25" Plate	55.50 - 58.83	Auto	0.1457
L44	70	CCI 8.5" x 1.25" Plate	55.50 - 58.83	Auto	0.1457
L45	33	MP3-04	55.17 - 55.42	Auto	0.0000
L45	34	MP3-04	55.17 - 55.42	Auto	0.0000
L45	35	MP3-04	55.17 - 55.42	Auto	0.0000
L45	42	CCI 6.5" x 1.25" Plate	55.17 - 55.42	Auto	0.0000
L45	43	CCI 6.5" x 1.25" Plate	55.17 - 55.42	Auto	0.0000
L45	44	CCI 6.5" x 1.25" Plate	55.17 - 55.42	Auto	0.0000
L45	52	CCI 6.5" x 1.25" Plate	55.17 - 55.42	Auto	0.0000
L45	53	CCI 6.5" x 1.25" Plate	55.17 - 55.42	Auto	0.0000
L45	54	CCI 6.5" x 1.25" Plate	55.17 - 55.42	Auto	0.0000
L45	67	CCI 8.5" x 1.25" Plate	55.17 - 55.40	Auto	0.1347
L45	68	CCI 8.5" x 1.25" Plate	55.17 - 55.40	Auto	0.1347
L46	33	MP3-04	54.75 - 55.17	Auto	0.0000
L46	34	MP3-04	54.75 - 55.17	Auto	0.0000
L46	35	MP3-04	54.75 - 55.17	Auto	0.0000
L46	42	CCI 6.5" x 1.25" Plate	54.75 - 55.17	Auto	0.0000
L46	43	CCI 6.5" x 1.25" Plate	54.75 - 55.17	Auto	0.0000
L46	44	CCI 6.5" x 1.25" Plate	54.75 - 55.17	Auto	0.0000
L46	52	CCI 6.5" x 1.25" Plate	54.75 - 55.17	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L46	53	CCI 6.5" x 1.25" Plate	54.75 - 55.17	Auto	0.0000
L46	54	CCI 6.5" x 1.25" Plate	54.75 - 55.17	Auto	0.0000
L46	67	CCI 8.5" x 1.25" Plate	54.75 - 55.17	Auto	0.1329
L46	68	CCI 8.5" x 1.25" Plate	54.75 - 55.17	Auto	0.1329
L47	33	MP3-04	54.50 - 54.75	Auto	0.0000
L47	34	MP3-04	54.50 - 54.75	Auto	0.0000
L47	35	MP3-04	54.50 - 54.75	Auto	0.0000
L47	42	CCI 6.5" x 1.25" Plate	54.50 - 54.75	Auto	0.0000
L47	43	CCI 6.5" x 1.25" Plate	54.50 - 54.75	Auto	0.0000
L47	44	CCI 6.5" x 1.25" Plate	54.50 - 54.75	Auto	0.0000
L47	52	CCI 6.5" x 1.25" Plate	54.50 - 54.75	Auto	0.0000
L47	53	CCI 6.5" x 1.25" Plate	54.50 - 54.75	Auto	0.0000
L47	54	CCI 6.5" x 1.25" Plate	54.50 - 54.75	Auto	0.0000
L47	67	CCI 8.5" x 1.25" Plate	54.50 - 54.75	Auto	0.0679
L47	68	CCI 8.5" x 1.25" Plate	54.50 - 54.75	Auto	0.0679
L48	33	MP3-04	49.50 - 54.50	Auto	0.0000
L48	34	MP3-04	49.50 - 54.50	Auto	0.0000
L48	35	MP3-04	49.50 - 54.50	Auto	0.0000
L48	42	CCI 6.5" x 1.25" Plate	49.50 - 54.50	Auto	0.0000
L48	43	CCI 6.5" x 1.25" Plate	49.50 - 54.50	Auto	0.0000
L48	44	CCI 6.5" x 1.25" Plate	49.50 - 54.50	Auto	0.0000
L48	52	CCI 6.5" x 1.25" Plate	52.00 - 54.50	Auto	0.0000
L48	53	CCI 6.5" x 1.25" Plate	52.00 - 54.50	Auto	0.0000
L48	54	CCI 6.5" x 1.25" Plate	52.00 - 54.50	Auto	0.0000
L48	67	CCI 8.5" x 1.25" Plate	49.50 - 54.50	Auto	0.0486
L48	68	CCI 8.5" x 1.25" Plate	49.50 - 54.50	Auto	0.0486
L49	33	MP3-04	44.50 - 49.50	Auto	0.0000
L49	34	MP3-04	44.50 - 49.50	Auto	0.0000
L49	35	MP3-04	44.50 - 49.50	Auto	0.0000
L49	42	CCI 6.5" x 1.25" Plate	44.50 - 49.50	Auto	0.0000
L49	43	CCI 6.5" x 1.25" Plate	44.50 - 49.50	Auto	0.0000
L49	44	CCI 6.5" x 1.25" Plate	44.50 - 49.50	Auto	0.0000
L49	64	CCI 8.5" x 1.25" Plate	44.50 - 45.50	Auto	0.0040
L49	67	CCI 8.5" x 1.25" Plate	44.50 - 49.50	Auto	0.0156

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L49	68	CCI 8.5" x 1.25" Plate	44.50 - 49.50	Auto	0.0156
L50	33	MP3-04	41.25 - 44.50	Auto	0.0000
L50	34	MP3-04	41.25 - 44.50	Auto	0.0000
L50	35	MP3-04	41.25 - 44.50	Auto	0.0000
L50	42	CCI 6.5" x 1.25" Plate	41.25 - 44.50	Auto	0.0000
L50	43	CCI 6.5" x 1.25" Plate	41.25 - 44.50	Auto	0.0000
L50	44	CCI 6.5" x 1.25" Plate	41.25 - 44.50	Auto	0.0000
L50	64	CCI 8.5" x 1.25" Plate	41.25 - 44.50	Auto	0.0000
L50	67	CCI 8.5" x 1.25" Plate	41.25 - 44.50	Auto	0.0000
L50	68	CCI 8.5" x 1.25" Plate	41.25 - 44.50	Auto	0.0000
L51	33	MP3-04	41.00 - 41.25	Auto	0.0000
L51	34	MP3-04	41.00 - 41.25	Auto	0.0000
L51	35	MP3-04	41.00 - 41.25	Auto	0.0000
L51	42	CCI 6.5" x 1.25" Plate	41.00 - 41.25	Auto	0.0000
L51	43	CCI 6.5" x 1.25" Plate	41.00 - 41.25	Auto	0.0000
L51	44	CCI 6.5" x 1.25" Plate	41.00 - 41.25	Auto	0.0000
L51	64	CCI 8.5" x 1.25" Plate	41.00 - 41.25	Auto	0.0050
L51	67	CCI 8.5" x 1.25" Plate	41.00 - 41.25	Auto	0.0050
L51	68	CCI 8.5" x 1.25" Plate	41.00 - 41.25	Auto	0.0050
L52	33	MP3-04	34.29 - 41.00	Auto	0.0000
L52	34	MP3-04	34.29 - 41.00	Auto	0.0000
L52	35	MP3-04	34.29 - 41.00	Auto	0.0000
L52	42	CCI 6.5" x 1.25" Plate	34.29 - 41.00	Auto	0.0000
L52	43	CCI 6.5" x 1.25" Plate	34.29 - 41.00	Auto	0.0000
L52	44	CCI 6.5" x 1.25" Plate	34.29 - 41.00	Auto	0.0000
L52	49	CCI 6.5" x 1.25" Plate	34.29 - 38.00	Auto	0.0000
L52	50	CCI 6.5" x 1.25" Plate	34.29 - 38.00	Auto	0.0000
L52	51	CCI 6.5" x 1.25" Plate	34.29 - 38.00	Auto	0.0000
L52	64	CCI 8.5" x 1.25" Plate	34.29 - 41.00	Auto	0.0002
L52	67	CCI 8.5" x 1.25" Plate	34.29 - 41.00	Auto	0.0002
L52	68	CCI 8.5" x 1.25" Plate	34.29 - 41.00	Auto	0.0002
L53	33	MP3-04	33.29 - 34.29	Auto	0.0000
L53	34	MP3-04	33.29 - 34.29	Auto	0.0000
L53	35	MP3-04	33.29 - 34.29	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L53	42	CCI 6.5" x 1.25" Plate	33.29 - 34.29	Auto	0.0000
L53	43	CCI 6.5" x 1.25" Plate	33.29 - 34.29	Auto	0.0000
L53	44	CCI 6.5" x 1.25" Plate	33.29 - 34.29	Auto	0.0000
L53	49	CCI 6.5" x 1.25" Plate	33.29 - 34.29	Auto	0.0000
L53	50	CCI 6.5" x 1.25" Plate	33.29 - 34.29	Auto	0.0000
L53	51	CCI 6.5" x 1.25" Plate	33.29 - 34.29	Auto	0.0000
L53	64	CCI 8.5" x 1.25" Plate	33.29 - 34.29	Auto	0.0808
L53	67	CCI 8.5" x 1.25" Plate	33.29 - 34.29	Auto	0.0808
L53	68	CCI 8.5" x 1.25" Plate	33.29 - 34.29	Auto	0.0808
L54	33	MP3-04	31.50 - 33.29	Auto	0.0000
L54	34	MP3-04	31.50 - 33.29	Auto	0.0000
L54	35	MP3-04	31.50 - 33.29	Auto	0.0000
L54	42	CCI 6.5" x 1.25" Plate	31.50 - 33.29	Auto	0.0000
L54	43	CCI 6.5" x 1.25" Plate	31.50 - 33.29	Auto	0.0000
L54	44	CCI 6.5" x 1.25" Plate	31.50 - 33.29	Auto	0.0000
L54	49	CCI 6.5" x 1.25" Plate	31.50 - 33.29	Auto	0.0000
L54	50	CCI 6.5" x 1.25" Plate	31.50 - 33.29	Auto	0.0000
L54	51	CCI 6.5" x 1.25" Plate	31.50 - 33.29	Auto	0.0000
L54	64	CCI 8.5" x 1.25" Plate	31.50 - 33.29	Auto	0.0727
L54	67	CCI 8.5" x 1.25" Plate	31.50 - 33.29	Auto	0.0727
L54	68	CCI 8.5" x 1.25" Plate	31.50 - 33.29	Auto	0.0727
L55	30	MP3-05	31.25 - 31.50	Auto	0.0000
L55	33	MP3-04	31.25 - 31.50	Auto	0.0000
L55	34	MP3-04	31.25 - 31.50	Auto	0.0000
L55	35	MP3-04	31.25 - 31.50	Auto	0.0000
L55	42	CCI 6.5" x 1.25" Plate	31.25 - 31.50	Auto	0.0000
L55	43	CCI 6.5" x 1.25" Plate	31.25 - 31.50	Auto	0.0000
L55	44	CCI 6.5" x 1.25" Plate	31.25 - 31.50	Auto	0.0000
L55	49	CCI 6.5" x 1.25" Plate	31.25 - 31.50	Auto	0.0000
L55	50	CCI 6.5" x 1.25" Plate	31.25 - 31.50	Auto	0.0000
L55	51	CCI 6.5" x 1.25" Plate	31.25 - 31.50	Auto	0.0000
L55	64	CCI 8.5" x 1.25" Plate	31.25 - 31.50	Auto	0.0668
L55	67	CCI 8.5" x 1.25" Plate	31.25 - 31.50	Auto	0.0668
L55	68	CCI 8.5" x 1.25" Plate	31.25 - 31.50	Auto	0.0668

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L56	30	MP3-05	30.50 - 31.25	Auto	0.0000
L56	33	MP3-04	30.50 - 31.25	Auto	0.0000
L56	34	MP3-04	30.50 - 31.25	Auto	0.0000
L56	35	MP3-04	31.00 - 31.25	Auto	0.0000
L56	42	CCI 6.5" x 1.25" Plate	30.50 - 31.25	Auto	0.0000
L56	43	CCI 6.5" x 1.25" Plate	30.50 - 31.25	Auto	0.0000
L56	44	CCI 6.5" x 1.25" Plate	30.50 - 31.25	Auto	0.0000
L56	49	CCI 6.5" x 1.25" Plate	30.50 - 31.25	Auto	0.0000
L56	50	CCI 6.5" x 1.25" Plate	30.50 - 31.25	Auto	0.0000
L56	51	CCI 6.5" x 1.25" Plate	30.50 - 31.25	Auto	0.0000
L56	64	CCI 8.5" x 1.25" Plate	30.50 - 31.25	Auto	0.0639
L56	67	CCI 8.5" x 1.25" Plate	30.50 - 31.25	Auto	0.0639
L56	68	CCI 8.5" x 1.25" Plate	30.50 - 31.25	Auto	0.0639
L57	30	MP3-05	30.25 - 30.50	Auto	0.0000
L57	31	MP3-05	30.25 - 30.50	Auto	0.0000
L57	32	MP3-05	30.25 - 30.50	Auto	0.0000
L57	39	CCI 6" x 1" Plate	30.25 - 30.50	Auto	0.0000
L57	40	CCI 6" x 1" Plate	30.25 - 30.50	Auto	0.0000
L57	41	CCI 6" x 1" Plate	30.25 - 30.50	Auto	0.0000
L57	49	CCI 6.5" x 1.25" Plate	30.25 - 30.50	Auto	0.0000
L57	50	CCI 6.5" x 1.25" Plate	30.25 - 30.50	Auto	0.0000
L57	51	CCI 6.5" x 1.25" Plate	30.25 - 30.50	Auto	0.0000
L57	64	CCI 8.5" x 1.25" Plate	30.25 - 30.50	Auto	0.0453
L57	67	CCI 8.5" x 1.25" Plate	30.25 - 30.50	Auto	0.0453
L57	68	CCI 8.5" x 1.25" Plate	30.25 - 30.50	Auto	0.0453
L58	30	MP3-05	25.75 - 30.25	Auto	0.0000
L58	31	MP3-05	25.75 - 30.25	Auto	0.0000
L58	32	MP3-05	25.75 - 30.25	Auto	0.0000
L58	39	CCI 6" x 1" Plate	25.75 - 30.25	Auto	0.0000
L58	40	CCI 6" x 1" Plate	25.75 - 30.25	Auto	0.0000
L58	41	CCI 6" x 1" Plate	25.75 - 30.25	Auto	0.0000
L58	49	CCI 6.5" x 1.25" Plate	25.75 - 30.25	Auto	0.0000
L58	50	CCI 6.5" x 1.25" Plate	25.75 - 30.25	Auto	0.0000
L58	51	CCI 6.5" x 1.25" Plate	25.75 - 30.25	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L58	64	CCI 8.5" x 1.25" Plate	25.75 - 30.25	Auto	0.0237
L58	67	CCI 8.5" x 1.25" Plate	25.75 - 30.25	Auto	0.0237
L58	68	CCI 8.5" x 1.25" Plate	25.75 - 30.25	Auto	0.0237
L58	80	CCI 1.25" x 5.875" Plate	25.75 - 28.50	Auto	0.0000
L58	81	CCI 1.25" x 5.875" Plate	25.75 - 28.50	Auto	0.0000
L58	82	CCI 1.25" x 5.875" Plate	25.75 - 28.50	Auto	0.0000
L59	30	MP3-05	25.50 - 25.75	Auto	0.0000
L59	31	MP3-05	25.50 - 25.75	Auto	0.0000
L59	32	MP3-05	25.50 - 25.75	Auto	0.0000
L59	39	CCI 6" x 1" Plate	25.50 - 25.75	Auto	0.0000
L59	40	CCI 6" x 1" Plate	25.50 - 25.75	Auto	0.0000
L59	41	CCI 6" x 1" Plate	25.50 - 25.75	Auto	0.0000
L59	49	CCI 6.5" x 1.25" Plate	25.50 - 25.75	Auto	0.0000
L59	50	CCI 6.5" x 1.25" Plate	25.50 - 25.75	Auto	0.0000
L59	51	CCI 6.5" x 1.25" Plate	25.50 - 25.75	Auto	0.0000
L59	64	CCI 8.5" x 1.25" Plate	25.50 - 25.75	Auto	0.0000
L59	67	CCI 8.5" x 1.25" Plate	25.50 - 25.75	Auto	0.0000
L59	68	CCI 8.5" x 1.25" Plate	25.50 - 25.75	Auto	0.0000
L59	80	CCI 1.25" x 5.875" Plate	25.50 - 25.75	Auto	0.0000
L59	81	CCI 1.25" x 5.875" Plate	25.50 - 25.75	Auto	0.0000
L59	82	CCI 1.25" x 5.875" Plate	25.50 - 25.75	Auto	0.0000
L60	30	MP3-05	24.67 - 25.50	Auto	0.0000
L60	31	MP3-05	24.67 - 25.50	Auto	0.0000
L60	32	MP3-05	24.67 - 25.50	Auto	0.0000
L60	39	CCI 6" x 1" Plate	24.67 - 25.50	Auto	0.0000
L60	40	CCI 6" x 1" Plate	24.67 - 25.50	Auto	0.0000
L60	41	CCI 6" x 1" Plate	24.67 - 25.50	Auto	0.0000
L60	49	CCI 6.5" x 1.25" Plate	24.67 - 25.50	Auto	0.0000
L60	50	CCI 6.5" x 1.25" Plate	24.67 - 25.50	Auto	0.0000
L60	51	CCI 6.5" x 1.25" Plate	24.67 - 25.50	Auto	0.0000
L60	64	CCI 8.5" x 1.25" Plate	24.67 - 25.50	Auto	0.0000
L60	67	CCI 8.5" x 1.25" Plate	24.67 - 25.50	Auto	0.0000
L60	68	CCI 8.5" x 1.25" Plate	24.67 - 25.50	Auto	0.0000
L60	75	CCI 1.25" x 5.875" Plate	24.67 - 25.50	Auto	0.0000



Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L60	76	CCI 1.25" x 5.875" Plate	24.67 - 25.50	Auto	0.0000
L60	77	CCI 1.25" x 5.875" Plate	24.67 - 25.50	Auto	0.0000
L60	78	CCI 1.25" x 5.875" Plate	24.67 - 25.50	Auto	0.0000
L61	30	MP3-05	24.42 - 24.67	Auto	0.0000
L61	31	MP3-05	24.42 - 24.67	Auto	0.0000
L61	32	MP3-05	24.42 - 24.67	Auto	0.0000
L61	39	CCI 6" x 1" Plate	24.42 - 24.67	Auto	0.0000
L61	40	CCI 6" x 1" Plate	24.42 - 24.67	Auto	0.0000
L61	41	CCI 6" x 1" Plate	24.42 - 24.67	Auto	0.0000
L61	49	CCI 6.5" x 1.25" Plate	24.42 - 24.67	Auto	0.0000
L61	50	CCI 6.5" x 1.25" Plate	24.42 - 24.67	Auto	0.0000
L61	51	CCI 6.5" x 1.25" Plate	24.42 - 24.67	Auto	0.0000
L61	64	CCI 8.5" x 1.25" Plate	24.42 - 24.67	Auto	0.0000
L61	67	CCI 8.5" x 1.25" Plate	24.42 - 24.67	Auto	0.0000
L61	68	CCI 8.5" x 1.25" Plate	24.42 - 24.67	Auto	0.0000
L61	75	CCI 1.25" x 5.875" Plate	24.42 - 24.67	Auto	0.0000
L61	76	CCI 1.25" x 5.875" Plate	24.42 - 24.67	Auto	0.0000
L61	77	CCI 1.25" x 5.875" Plate	24.42 - 24.67	Auto	0.0000
L61	78	CCI 1.25" x 5.875" Plate	24.42 - 24.67	Auto	0.0000
L62	30	MP3-05	24.00 - 24.42	Auto	0.0000
L62	31	MP3-05	24.00 - 24.42	Auto	0.0000
L62	32	MP3-05	24.00 - 24.42	Auto	0.0000
L62	39	CCI 6" x 1" Plate	24.00 - 24.42	Auto	0.0000
L62	40	CCI 6" x 1" Plate	24.00 - 24.42	Auto	0.0000
L62	41	CCI 6" x 1" Plate	24.00 - 24.42	Auto	0.0000
L62	49	CCI 6.5" x 1.25" Plate	24.00 - 24.42	Auto	0.0000
L62	50	CCI 6.5" x 1.25" Plate	24.00 - 24.42	Auto	0.0000
L62	51	CCI 6.5" x 1.25" Plate	24.00 - 24.42	Auto	0.0000
L62	64	CCI 8.5" x 1.25" Plate	24.00 - 24.42	Auto	0.0000
L62	67	CCI 8.5" x 1.25" Plate	24.00 - 24.42	Auto	0.0000
L62	68	CCI 8.5" x 1.25" Plate	24.00 - 24.42	Auto	0.0000
L62	75	CCI 1.25" x 5.875" Plate	24.00 - 24.42	Auto	0.0000
L62	76	CCI 1.25" x 5.875" Plate	24.00 - 24.42	Auto	0.0000
L62	77	CCI 1.25" x 5.875" Plate	24.00 - 24.42	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L62	78	CCI 1.25" x 5.875" Plate	24.00 - 24.42	Auto	0.0000
L63	30	MP3-05	23.75 - 24.00	Auto	0.0000
L63	31	MP3-05	23.75 - 24.00	Auto	0.0000
L63	32	MP3-05	23.75 - 24.00	Auto	0.0000
L63	39	CCI 6" x 1" Plate	23.75 - 24.00	Auto	0.0000
L63	40	CCI 6" x 1" Plate	23.75 - 24.00	Auto	0.0000
L63	41	CCI 6" x 1" Plate	23.75 - 24.00	Auto	0.0000
L63	49	CCI 6.5" x 1.25" Plate	23.75 - 24.00	Auto	0.0000
L63	50	CCI 6.5" x 1.25" Plate	23.75 - 24.00	Auto	0.0000
L63	51	CCI 6.5" x 1.25" Plate	23.75 - 24.00	Auto	0.0000
L63	64	CCI 8.5" x 1.25" Plate	23.75 - 24.00	Auto	0.0000
L63	67	CCI 8.5" x 1.25" Plate	23.75 - 24.00	Auto	0.0000
L63	68	CCI 8.5" x 1.25" Plate	23.75 - 24.00	Auto	0.0000
L63	75	CCI 1.25" x 5.875" Plate	23.75 - 24.00	Auto	0.0000
L63	76	CCI 1.25" x 5.875" Plate	23.75 - 24.00	Auto	0.0000
L63	77	CCI 1.25" x 5.875" Plate	23.75 - 24.00	Auto	0.0000
L63	78	CCI 1.25" x 5.875" Plate	23.75 - 24.00	Auto	0.0000
L64	30	MP3-05	18.75 - 23.75	Auto	0.0000
L64	31	MP3-05	18.75 - 23.75	Auto	0.0000
L64	32	MP3-05	18.75 - 23.75	Auto	0.0000
L64	39	CCI 6" x 1" Plate	18.75 - 23.75	Auto	0.0000
L64	40	CCI 6" x 1" Plate	18.75 - 23.75	Auto	0.0000
L64	41	CCI 6" x 1" Plate	18.75 - 23.75	Auto	0.0000
L64	49	CCI 6.5" x 1.25" Plate	23.00 - 23.75	Auto	0.0000
L64	50	CCI 6.5" x 1.25" Plate	23.00 - 23.75	Auto	0.0000
L64	51	CCI 6.5" x 1.25" Plate	23.00 - 23.75	Auto	0.0000
L64	64	CCI 8.5" x 1.25" Plate	18.75 - 23.75	Auto	0.0000
L64	67	CCI 8.5" x 1.25" Plate	20.40 - 23.75	Auto	0.0000
L64	68	CCI 8.5" x 1.25" Plate	20.40 - 23.75	Auto	0.0000
L64	75	CCI 1.25" x 5.875" Plate	18.75 - 23.75	Auto	0.0000
L64	76	CCI 1.25" x 5.875" Plate	18.75 - 23.75	Auto	0.0000
L64	77	CCI 1.25" x 5.875" Plate	18.75 - 23.75	Auto	0.0000
L64	78	CCI 1.25" x 5.875" Plate	18.75 - 23.75	Auto	0.0000
L65	30	MP3-05	14.08 - 18.75	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L65	31	MP3-05	14.08 - 18.75	Auto	0.0000
L65	32	MP3-05	14.08 - 18.75	Auto	0.0000
L65	36	MP3-04	14.08 - 15.50	Auto	0.0000
L65	37	MP3-04	14.08 - 15.50	Auto	0.0000
L65	39	CCI 6" x 1" Plate	14.08 - 18.75	Auto	0.0000
L65	40	CCI 6" x 1" Plate	14.08 - 18.75	Auto	0.0000
L65	41	CCI 6" x 1" Plate	14.08 - 18.75	Auto	0.0000
L65	64	CCI 8.5" x 1.25" Plate	14.08 - 18.75	Auto	0.0000
L65	75	CCI 1.25" x 5.875" Plate	14.08 - 18.75	Auto	0.0000
L65	76	CCI 1.25" x 5.875" Plate	14.08 - 18.75	Auto	0.0000
L65	77	CCI 1.25" x 5.875" Plate	14.08 - 18.75	Auto	0.0000
L65	78	CCI 1.25" x 5.875" Plate	14.08 - 18.75	Auto	0.0000
L66	30	MP3-05	13.82 - 14.08	Auto	0.0000
L66	31	MP3-05	13.82 - 14.08	Auto	0.0000
L66	32	MP3-05	13.82 - 14.08	Auto	0.0000
L66	36	MP3-04	13.82 - 14.08	Auto	0.0000
L66	37	MP3-04	13.82 - 14.08	Auto	0.0000
L66	39	CCI 6" x 1" Plate	13.82 - 14.08	Auto	0.0000
L66	40	CCI 6" x 1" Plate	13.82 - 14.08	Auto	0.0000
L66	41	CCI 6" x 1" Plate	13.82 - 14.08	Auto	0.0000
L66	64	CCI 8.5" x 1.25" Plate	13.82 - 14.08	Auto	0.0000
L66	75	CCI 1.25" x 5.875" Plate	13.82 - 14.08	Auto	0.0000
L66	76	CCI 1.25" x 5.875" Plate	13.82 - 14.08	Auto	0.0000
L66	77	CCI 1.25" x 5.875" Plate	13.82 - 14.08	Auto	0.0000
L66	78	CCI 1.25" x 5.875" Plate	13.82 - 14.08	Auto	0.0000
L67	30	MP3-05	13.67 - 13.82	Auto	0.0000
L67	31	MP3-05	13.67 - 13.82	Auto	0.0000
L67	32	MP3-05	13.67 - 13.82	Auto	0.0000
L67	36	MP3-04	13.67 - 13.82	Auto	0.0000
L67	37	MP3-04	13.67 - 13.82	Auto	0.0000
L67	39	CCI 6" x 1" Plate	13.67 - 13.82	Auto	0.0000
L67	40	CCI 6" x 1" Plate	13.67 - 13.82	Auto	0.0000
L67	41	CCI 6" x 1" Plate	13.67 - 13.82	Auto	0.0000
L67	64	CCI 8.5" x 1.25" Plate	13.67 - 13.82	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L67	75	CCI 1.25" x 5.875" Plate	13.67 - 13.82	Auto	0.0000
L67	76	CCI 1.25" x 5.875" Plate	13.67 - 13.82	Auto	0.0000
L67	77	CCI 1.25" x 5.875" Plate	13.67 - 13.82	Auto	0.0000
L67	78	CCI 1.25" x 5.875" Plate	13.67 - 13.82	Auto	0.0000
L68	30	MP3-05	11.50 - 13.67	Auto	0.0000
L68	31	MP3-05	10.50 - 13.67	Auto	0.0000
L68	32	MP3-05	10.50 - 13.67	Auto	0.0000
L68	36	MP3-04	10.50 - 13.67	Auto	0.0000
L68	37	MP3-04	10.50 - 13.67	Auto	0.0000
L68	39	CCI 6" x 1" Plate	10.50 - 13.67	Auto	0.0000
L68	40	CCI 6" x 1" Plate	10.50 - 13.67	Auto	0.0000
L68	41	CCI 6" x 1" Plate	10.50 - 13.67	Auto	0.0000
L68	64	CCI 8.5" x 1.25" Plate	10.50 - 13.67	Auto	0.0000
L68	75	CCI 1.25" x 5.875" Plate	10.50 - 13.67	Auto	0.0000
L68	76	CCI 1.25" x 5.875" Plate	10.50 - 13.67	Auto	0.0000
L68	77	CCI 1.25" x 5.875" Plate	10.50 - 13.67	Auto	0.0000
L68	78	CCI 1.25" x 5.875" Plate	10.50 - 13.67	Auto	0.0000
L69	31	MP3-05	10.25 - 10.50	Auto	0.0000
L69	32	MP3-05	10.25 - 10.50	Auto	0.0000
L69	36	MP3-04	10.25 - 10.50	Auto	0.0000
L69	37	MP3-04	10.25 - 10.50	Auto	0.0000
L69	39	CCI 6" x 1" Plate	10.25 - 10.50	Auto	0.0000
L69	40	CCI 6" x 1" Plate	10.25 - 10.50	Auto	0.0000
L69	41	CCI 6" x 1" Plate	10.25 - 10.50	Auto	0.0000
L69	63	CCI 6" x 1" Plate	10.25 - 10.50	Auto	0.0000
L69	75	CCI 1.25" x 5.875" Plate	10.25 - 10.50	Auto	0.0000
L69	76	CCI 1.25" x 5.875" Plate	10.25 - 10.50	Auto	0.0000
L69	77	CCI 1.25" x 5.875" Plate	10.25 - 10.50	Auto	0.0000
L69	78	CCI 1.25" x 5.875" Plate	10.25 - 10.50	Auto	0.0000
L70	31	MP3-05	5.25 - 10.25	Auto	0.0000
L70	32	MP3-05	5.25 - 10.25	Auto	0.0000
L70	36	MP3-04	5.25 - 10.25	Auto	0.0000
L70	37	MP3-04	5.25 - 10.25	Auto	0.0000
L70	39	CCI 6" x 1" Plate	5.25 - 10.25	Auto	0.0000
L70	40	CCI 6" x 1" Plate	5.25 - 10.25	Auto	0.0000
L70	41	CCI 6" x 1" Plate	5.25 - 10.25	Auto	0.0000
L70	63	CCI 6" x 1" Plate	5.25 - 10.25	Auto	0.0000
L70	75	CCI 1.25" x 5.875" Plate	5.25 - 10.25	Auto	0.0000
L70	76	CCI 1.25" x 5.875" Plate	5.25 - 10.25	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L70	77	CCI 1.25" x 5.875" Plate	5.25 - 10.25	Auto	0.0000
L70	78	CCI 1.25" x 5.875" Plate	5.25 - 10.25	Auto	0.0000
L71	31	MP3-05	2.90 - 5.25	Auto	0.0000
L71	32	MP3-05	2.90 - 5.25	Auto	0.0000
L71	36	MP3-04	2.90 - 5.25	Auto	0.0000
L71	37	MP3-04	2.90 - 5.25	Auto	0.0000
L71	39	CCI 6" x 1" Plate	2.90 - 5.25	Auto	0.0000
L71	40	CCI 6" x 1" Plate	2.90 - 5.25	Auto	0.0000
L71	41	CCI 6" x 1" Plate	2.90 - 5.25	Auto	0.0000
L71	63	CCI 6" x 1" Plate	2.90 - 5.25	Auto	0.0000
L71	75	CCI 1.25" x 5.875" Plate	2.90 - 5.25	Auto	0.0000
L71	76	CCI 1.25" x 5.875" Plate	2.90 - 5.25	Auto	0.0000
L71	77	CCI 1.25" x 5.875" Plate	2.90 - 5.25	Auto	0.0000
L71	78	CCI 1.25" x 5.875" Plate	2.90 - 5.25	Auto	0.0000
L72	31	MP3-05	2.65 - 2.90	Auto	0.0000
L72	32	MP3-05	2.65 - 2.90	Auto	0.0000
L72	36	MP3-04	2.65 - 2.90	Auto	0.0000
L72	37	MP3-04	2.65 - 2.90	Auto	0.0000
L72	39	CCI 6" x 1" Plate	2.65 - 2.90	Auto	0.0000
L72	40	CCI 6" x 1" Plate	2.65 - 2.90	Auto	0.0000
L72	41	CCI 6" x 1" Plate	2.65 - 2.90	Auto	0.0000
L72	63	CCI 6" x 1" Plate	2.65 - 2.90	Auto	0.0000
L72	75	CCI 1.25" x 5.875" Plate	2.65 - 2.90	Auto	0.0000
L72	76	CCI 1.25" x 5.875" Plate	2.65 - 2.90	Auto	0.0000
L72	77	CCI 1.25" x 5.875" Plate	2.65 - 2.90	Auto	0.0000
L72	78	CCI 1.25" x 5.875" Plate	2.65 - 2.90	Auto	0.0000
L73	31	MP3-05	2.50 - 2.65	Auto	0.0000
L73	32	MP3-05	2.50 - 2.65	Auto	0.0000
L73	36	MP3-04	2.50 - 2.65	Auto	0.0000
L73	37	MP3-04	2.50 - 2.65	Auto	0.0000
L73	39	CCI 6" x 1" Plate	2.50 - 2.65	Auto	0.0000
L73	40	CCI 6" x 1" Plate	2.50 - 2.65	Auto	0.0000
L73	41	CCI 6" x 1" Plate	2.50 - 2.65	Auto	0.0000
L73	63	CCI 6" x 1" Plate	2.50 - 2.65	Auto	0.0000
L73	75	CCI 1.25" x 5.875" Plate	2.50 - 2.65	Auto	0.0000
L73	76	CCI 1.25" x 5.875" Plate	2.50 - 2.65	Auto	0.0000
L73	77	CCI 1.25" x 5.875" Plate	2.50 - 2.65	Auto	0.0000
L73	78	CCI 1.25" x 5.875" Plate	2.50 - 2.65	Auto	0.0000
L74	31	MP3-05	2.25 - 2.50	Auto	0.0000
L74	32	MP3-05	2.25 - 2.50	Auto	0.0000
L74	36	MP3-04	2.25 - 2.50	Auto	0.0000
L74	37	MP3-04	2.25 - 2.50	Auto	0.0000
L74	39	CCI 6" x 1" Plate	2.25 - 2.50	Auto	0.0000
L74	40	CCI 6" x 1" Plate	2.25 - 2.50	Auto	0.0000
L74	41	CCI 6" x 1" Plate	2.25 - 2.50	Auto	0.0000
L74	63	CCI 6" x 1" Plate	2.25 - 2.50	Auto	0.0000
L74	75	CCI 1.25" x 5.875" Plate	2.25 - 2.50	Auto	0.0000
L74	76	CCI 1.25" x 5.875" Plate	2.25 - 2.50	Auto	0.0000
L74	77	CCI 1.25" x 5.875" Plate	2.25 - 2.50	Auto	0.0000
L74	78	CCI 1.25" x 5.875" Plate	2.25 - 2.50	Auto	0.0000
L75	31	MP3-05	1.92 - 2.25	Auto	0.0000
L75	32	MP3-05	1.92 - 2.25	Auto	0.0000
L75	36	MP3-04	1.92 - 2.25	Auto	0.0000
L75	37	MP3-04	1.92 - 2.25	Auto	0.0000
L75	39	CCI 6" x 1" Plate	1.92 - 2.25	Auto	0.0000
L75	40	CCI 6" x 1" Plate	1.92 - 2.25	Auto	0.0000
L75	41	CCI 6" x 1" Plate	1.92 - 2.25	Auto	0.0000
L75	63	CCI 6" x 1" Plate	1.92 - 2.25	Auto	0.0000
L75	75	CCI 1.25" x 5.875" Plate	1.92 - 2.25	Auto	0.0000
L75	76	CCI 1.25" x 5.875" Plate	1.92 - 2.25	Auto	0.0000
L75	77	CCI 1.25" x 5.875" Plate	1.92 - 2.25	Auto	0.0000
L75	78	CCI 1.25" x 5.875" Plate	1.92 - 2.25	Auto	0.0000
L76	31	MP3-05	1.67 - 1.92	Auto	0.0000
L76	32	MP3-05	1.67 - 1.92	Auto	0.0000
L76	36	MP3-04	1.67 - 1.92	Auto	0.0000
L76	37	MP3-04	1.67 - 1.92	Auto	0.0000
L76	39	CCI 6" x 1" Plate	1.67 - 1.92	Auto	0.0000
L76	40	CCI 6" x 1" Plate	1.67 - 1.92	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L76	41	CCI 6" x 1" Plate	1.67 - 1.92	Auto	0.0000
L76	63	CCI 6" x 1" Plate	1.67 - 1.92	Auto	0.0000
L76	75	CCI 1.25" x 5.875" Plate	1.67 - 1.92	Auto	0.0000
L76	76	CCI 1.25" x 5.875" Plate	1.67 - 1.92	Auto	0.0000
L76	77	CCI 1.25" x 5.875" Plate	1.67 - 1.92	Auto	0.0000
L76	78	CCI 1.25" x 5.875" Plate	1.67 - 1.92	Auto	0.0000
L77	31	MP3-05	0.00 - 1.67	Auto	0.0000
L77	32	MP3-05	0.00 - 1.67	Auto	0.0000
L77	36	MP3-04	0.00 - 1.67	Auto	0.0000
L77	37	MP3-04	0.00 - 1.67	Auto	0.0000
L77	39	CCI 6" x 1" Plate	0.00 - 1.67	Auto	0.0000
L77	40	CCI 6" x 1" Plate	0.00 - 1.67	Auto	0.0000
L77	41	CCI 6" x 1" Plate	0.00 - 1.67	Auto	0.0000
L77	63	CCI 6" x 1" Plate	0.00 - 1.67	Auto	0.0000
L77	75	CCI 1.25" x 5.875" Plate	0.00 - 1.67	Auto	0.0000
L77	76	CCI 1.25" x 5.875" Plate	0.00 - 1.67	Auto	0.0000
L77	77	CCI 1.25" x 5.875" Plate	0.00 - 1.67	Auto	0.0000
L77	78	CCI 1.25" x 5.875" Plate	0.00 - 1.67	Auto	0.0000

### Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft	CA <sub>AA</sub> Front ft <sup>2</sup>	CA <sub>AA</sub> Side ft <sup>2</sup>	Weight K	
*****									
SBNH-1D6565C w/ Mount Pipe	A	From Leg	4.00 0.00 1.00	0.0000	156.00	No Ice	5.56	4.47	0.08
						1/2" Ice	6.07	4.97	0.17
						Ice	6.59	5.47	0.26
						1" Ice	7.65	6.52	0.50
						2" Ice			
SBNH-1D6565C w/ Mount Pipe	B	From Leg	4.00 0.00 1.00	0.0000	156.00	No Ice	5.56	4.47	0.08
						1/2" Ice	6.07	4.97	0.17
						Ice	6.59	5.47	0.26
						1" Ice	7.65	6.52	0.50
						2" Ice			
80010798 w/ Mount Pipe	C	From Leg	4.00 0.00 1.00	0.0000	156.00	No Ice	7.79	4.90	0.11
						1/2" Ice	8.40	5.47	0.19
						Ice	9.02	6.06	0.27
						1" Ice	10.30	7.26	0.48
						2" Ice			
80010966 w/ Mount Pipe	A	From Leg	4.00 0.00 1.00	0.0000	156.00	No Ice	14.61	6.84	0.16
						1/2" Ice	15.47	7.63	0.27
						Ice	16.35	8.42	0.39
						1" Ice	18.14	10.06	0.68
						2" Ice			
80010966 w/ Mount Pipe	B	From Leg	4.00 0.00 1.00	0.0000	156.00	No Ice	14.61	6.84	0.16
						1/2" Ice	15.47	7.63	0.27
						Ice	16.35	8.42	0.39
						1" Ice	18.14	10.06	0.68
						2" Ice			
80010965 w/ Mount Pipe	C	From Leg	4.00 0.00 1.00	0.0000	156.00	No Ice	12.26	5.79	0.14
						1/2" Ice	13.03	6.47	0.23
						Ice	13.80	7.17	0.33
						1" Ice	15.41	8.60	0.57
						2" Ice			
TPA-65R-LCUUUU-H8 w/ Mount Pipe	A	From Leg	4.00 0.00 1.00	0.0000	156.00	No Ice	11.85	8.99	0.11
						1/2" Ice	12.77	9.88	0.21
						Ice	13.71	10.79	0.32
						1" Ice	15.64	12.66	0.58
						2" Ice			
TPA-65R-LCUUUU-H8 w/	B	From Leg	4.00	0.0000	156.00	No Ice	11.85	8.99	0.11

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft	C <sub>AA</sub> Front ft <sup>2</sup>	C <sub>AA</sub> Side ft <sup>2</sup>	Weight K	
Mount Pipe			0.00 1.00			12.77 13.71 15.64	9.88 10.79 12.66	0.21 0.32 0.58	
AM-X-CD-16-65-00T-RET w/ Mount Pipe	C	From Leg	4.00 0.00 1.00	0.0000	156.00	No Ice 1/2" Ice 5.51 1" Ice 6.43 2" Ice	4.63 3.69 4.12 5.00	0.07 0.13 0.20 0.38	
DTMABP7819VG12A	A	From Leg	4.00 0.00 1.00	0.0000	156.00	No Ice 1/2" Ice 1.23 1" Ice 1.52 2" Ice	0.98 0.42 0.51 0.71	0.02 0.03 0.04 0.06	
DTMABP7819VG12A	B	From Leg	4.00 0.00 1.00	0.0000	156.00	No Ice 1/2" Ice 1.23 1" Ice 1.52 2" Ice	0.98 0.42 0.51 0.71	0.02 0.03 0.04 0.06	
DTMABP7819VG12A	C	From Leg	4.00 0.00 1.00	0.0000	156.00	No Ice 1/2" Ice 1.23 1" Ice 1.52 2" Ice	0.98 0.42 0.51 0.71	0.02 0.03 0.04 0.06	
RRUS 4478 B14	A	From Leg	4.00 0.00 1.00	0.0000	156.00	No Ice 1/2" Ice 2.19 1" Ice 2.57 2" Ice	1.84 1.20 1.34 1.66	0.06 0.08 0.09 0.14	
RRUS 4478 B14	B	From Leg	4.00 0.00 1.00	0.0000	156.00	No Ice 1/2" Ice 2.19 1" Ice 2.57 2" Ice	1.84 1.20 1.34 1.66	0.06 0.08 0.09 0.14	
RRUS 4478 B14	C	From Leg	4.00 0.00 1.00	0.0000	156.00	No Ice 1/2" Ice 2.19 1" Ice 2.57 2" Ice	1.84 1.20 1.34 1.66	0.06 0.08 0.09 0.14	
RRUS 32 B66	A	From Leg	4.00 0.00 1.00	0.0000	156.00	No Ice 1/2" Ice 3.19 1" Ice 3.68 2" Ice	2.74 1.86 2.05 2.46	0.05 0.07 0.10 0.16	
RRUS 32 B66	B	From Leg	4.00 0.00 1.00	0.0000	156.00	No Ice 1/2" Ice 3.19 1" Ice 3.68 2" Ice	2.74 1.86 2.05 2.46	0.05 0.07 0.10 0.16	
RRUS 32 B66	C	From Leg	4.00 0.00 1.00	0.0000	156.00	No Ice 1/2" Ice 3.19 1" Ice 3.68 2" Ice	2.74 1.86 2.05 2.46	0.05 0.07 0.10 0.16	
RRUS 11	A	From Leg	4.00 0.00 1.00	0.0000	156.00	No Ice 1/2" Ice 3.21 1" Ice 3.66 2" Ice	2.78 1.33 1.49 1.83	0.05 0.07 0.09 0.15	
RRUS 11	B	From Leg	4.00 0.00 1.00	0.0000	156.00	No Ice 1/2" Ice 3.21 1" Ice 3.66 2" Ice	2.78 1.33 1.49 1.83	0.05 0.07 0.09 0.15	
RRUS 11	C	From Leg	4.00	0.0000	156.00	No Ice	2.78	1.19	0.05

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft	C <sub>AA</sub> Front ft <sup>2</sup>	C <sub>AA</sub> Side ft <sup>2</sup>	Weight K	
			0.00			1/2"	2.99	1.33	0.07
			1.00			Ice	3.21	1.49	0.09
						1" Ice	3.66	1.83	0.15
						2" Ice			
RRUS 12	A	From Leg	4.00	0.0000	156.00	No Ice	3.15	1.29	0.06
			0.00			1/2"	3.36	1.44	0.08
			1.00			Ice	3.59	1.60	0.11
						1" Ice	4.07	1.95	0.17
						2" Ice			
RRUS 12	B	From Leg	4.00	0.0000	156.00	No Ice	3.15	1.29	0.06
			0.00			1/2"	3.36	1.44	0.08
			1.00			Ice	3.59	1.60	0.11
						1" Ice	4.07	1.95	0.17
						2" Ice			
RRUS 12	C	From Leg	4.00	0.0000	156.00	No Ice	3.15	1.29	0.06
			0.00			1/2"	3.36	1.44	0.08
			1.00			Ice	3.59	1.60	0.11
						1" Ice	4.07	1.95	0.17
						2" Ice			
RRUS 32 B2	A	From Leg	4.00	0.0000	156.00	No Ice	2.73	1.67	0.05
			0.00			1/2"	2.95	1.86	0.07
			1.00			Ice	3.18	2.05	0.10
						1" Ice	3.66	2.46	0.16
						2" Ice			
RRUS 32 B2	B	From Leg	4.00	0.0000	156.00	No Ice	2.73	1.67	0.05
			0.00			1/2"	2.95	1.86	0.07
			1.00			Ice	3.18	2.05	0.10
						1" Ice	3.66	2.46	0.16
						2" Ice			
RRUS 32 B2	C	From Leg	4.00	0.0000	156.00	No Ice	2.73	1.67	0.05
			0.00			1/2"	2.95	1.86	0.07
			1.00			Ice	3.18	2.05	0.10
						1" Ice	3.66	2.46	0.16
						2" Ice			
RRUS 32	A	From Leg	4.00	0.0000	156.00	No Ice	2.86	1.78	0.06
			0.00			1/2"	3.08	1.97	0.08
			1.00			Ice	3.32	2.17	0.10
						1" Ice	3.81	2.58	0.16
						2" Ice			
RRUS 32	B	From Leg	4.00	0.0000	156.00	No Ice	2.86	1.78	0.06
			0.00			1/2"	3.08	1.97	0.08
			1.00			Ice	3.32	2.17	0.10
						1" Ice	3.81	2.58	0.16
						2" Ice			
RRUS 32	C	From Leg	4.00	0.0000	156.00	No Ice	2.86	1.78	0.06
			0.00			1/2"	3.08	1.97	0.08
			1.00			Ice	3.32	2.17	0.10
						1" Ice	3.81	2.58	0.16
						2" Ice			
DC6-48-60-0-8F	B	From Leg	4.00	0.0000	156.00	No Ice	0.92	0.92	0.02
			0.00			1/2"	1.46	1.46	0.04
			1.00			Ice	1.64	1.64	0.06
						1" Ice	2.04	2.04	0.11
						2" Ice			
(2) DC6-48-60-18-8F	B	From Leg	4.00	0.0000	156.00	No Ice	0.92	0.92	0.02
			0.00			1/2"	1.46	1.46	0.04
			1.00			Ice	1.64	1.64	0.06
						1" Ice	2.04	2.04	0.11
						2" Ice			
6' x 2" Mount Pipe	A	From Leg	4.00	0.0000	156.00	No Ice	1.43	1.43	0.02
			0.00			1/2"	1.92	1.92	0.03
			1.00			Ice	2.29	2.29	0.05
						1" Ice	3.06	3.06	0.09
						2" Ice			
6' x 2" Mount Pipe	B	From Leg	4.00	0.0000	156.00	No Ice	1.43	1.43	0.02



Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft	C <sub>AA</sub> Front ft <sup>2</sup>	C <sub>AA</sub> Side ft <sup>2</sup>	Weight K	
			0.00			1/2"	1.92	1.92	0.03
			1.00			Ice	2.29	2.29	0.05
						1" Ice	3.06	3.06	0.09
						2" Ice			
6' x 2" Mount Pipe	C	From Leg	4.00	0.0000	156.00	No Ice	1.43	1.43	0.02
			0.00			1/2"	1.92	1.92	0.03
			1.00			Ice	2.29	2.29	0.05
						1" Ice	3.06	3.06	0.09
						2" Ice			
Sector Mount [SM 502-3]	C	None		0.0000	156.00	No Ice	29.82	29.82	1.67
						1/2"	42.21	42.21	2.27
						Ice	54.43	54.43	3.05
						1" Ice	78.49	78.49	5.18
						2" Ice			
*****									
*****									
5' x 2" Pipe Mount	A	From Leg	4.00	0.0000	146.00	No Ice	1.19	1.19	0.02
			0.00			1/2"	1.50	1.50	0.03
			0.00			Ice	1.81	1.81	0.04
						1" Ice	2.46	2.46	0.08
						2" Ice			
5' x 2" Pipe Mount	B	From Leg	4.00	0.0000	146.00	No Ice	1.19	1.19	0.02
			0.00			1/2"	1.50	1.50	0.03
			0.00			Ice	1.81	1.81	0.04
						1" Ice	2.46	2.46	0.08
						2" Ice			
5' x 2" Pipe Mount	C	From Leg	4.00	0.0000	146.00	No Ice	1.19	1.19	0.02
			0.00			1/2"	1.50	1.50	0.03
			0.00			Ice	1.81	1.81	0.04
						1" Ice	2.46	2.46	0.08
						2" Ice			
Platform Mount [LP 1201-1_HR-1]	C	None		0.0000	146.00	No Ice	26.39	26.39	2.36
						1/2"	31.40	31.40	3.06
						Ice	36.20	36.20	3.86
						1" Ice	45.40	45.40	5.76
						2" Ice			
***									
AIR6449 B41_T-MOBILE w/ Mount Pipe	A	From Leg	4.00	0.0000	146.00	No Ice	5.19	2.71	0.13
			0.00			1/2"	5.59	3.04	0.17
			1.00			Ice	6.02	3.38	0.23
						1" Ice	6.90	4.12	0.35
						2" Ice			
AIR6449 B41_T-MOBILE w/ Mount Pipe	B	From Leg	4.00	0.0000	146.00	No Ice	5.19	2.71	0.13
			0.00			1/2"	5.59	3.04	0.17
			1.00			Ice	6.02	3.38	0.23
						1" Ice	6.90	4.12	0.35
						2" Ice			
AIR6449 B41_T-MOBILE w/ Mount Pipe	C	From Leg	4.00	0.0000	146.00	No Ice	5.19	2.71	0.13
			0.00			1/2"	5.59	3.04	0.17
			1.00			Ice	6.02	3.38	0.23
						1" Ice	6.90	4.12	0.35
						2" Ice			
APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	A	From Leg	4.00	0.0000	146.00	No Ice	6.29	2.76	0.06
			0.00			1/2"	6.86	3.27	0.11
			1.00			Ice	7.45	3.79	0.16
						1" Ice	8.68	4.90	0.29
						2" Ice			
APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	B	From Leg	4.00	0.0000	146.00	No Ice	6.29	2.76	0.06
			0.00			1/2"	6.86	3.27	0.11
			1.00			Ice	7.45	3.79	0.16
						1" Ice	8.68	4.90	0.29
						2" Ice			
APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	C	From Leg	4.00	0.0000	146.00	No Ice	6.29	2.76	0.06
			0.00			1/2"	6.86	3.27	0.11
			1.00			Ice	7.45	3.79	0.16

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C <sub>AA</sub> <sub>Front</sub>	C <sub>AA</sub> <sub>Side</sub>	Weight	
			Horz	Lateral						Vert
			ft	ft	°	ft	ft <sup>2</sup>	ft <sup>2</sup>	K	
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	A	From Leg	4.00	0.00	0.0000	146.00	1" Ice	8.68	4.90	0.29
							2" Ice			
							No Ice	14.69	6.87	0.18
							1/2" Ice	15.46	7.55	0.31
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	B	From Leg	4.00	0.00	0.0000	146.00	1" Ice	16.23	8.25	0.45
							2" Ice	17.82	9.67	0.78
							No Ice	14.69	6.87	0.18
							1/2" Ice	15.46	7.55	0.31
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	C	From Leg	4.00	0.00	0.0000	146.00	1" Ice	16.23	8.25	0.45
							2" Ice	17.82	9.67	0.78
							No Ice	14.69	6.87	0.18
							1/2" Ice	15.46	7.55	0.31
RADIO 4415 B66A	A	From Leg	4.00	0.00	0.0000	146.00	1" Ice	16.23	8.25	0.45
							2" Ice	17.82	9.67	0.78
							No Ice	1.86	0.87	0.05
							1/2" Ice	2.03	1.00	0.06
RADIO 4415 B66A	B	From Leg	4.00	0.00	0.0000	146.00	1" Ice	2.20	1.13	0.08
							2" Ice	2.58	1.43	0.12
							No Ice	1.86	0.87	0.05
							1/2" Ice	2.03	1.00	0.06
RADIO 4415 B66A	C	From Leg	4.00	0.00	0.0000	146.00	1" Ice	2.20	1.13	0.08
							2" Ice	2.58	1.43	0.12
							No Ice	1.86	0.87	0.05
							1/2" Ice	2.03	1.00	0.06
RADIO 4424 B25_TMO	A	From Leg	4.00	0.00	0.0000	146.00	1" Ice	2.20	1.13	0.08
							2" Ice	2.58	1.43	0.12
							No Ice	2.05	1.61	0.09
							1/2" Ice	2.23	1.77	0.11
RADIO 4424 B25_TMO	B	From Leg	4.00	0.00	0.0000	146.00	1" Ice	2.42	1.94	0.13
							2" Ice	2.81	2.30	0.19
							No Ice	2.05	1.61	0.09
							1/2" Ice	2.23	1.77	0.11
RADIO 4424 B25_TMO	C	From Leg	4.00	0.00	0.0000	146.00	1" Ice	2.42	1.94	0.13
							2" Ice	2.81	2.30	0.19
							No Ice	2.05	1.61	0.09
							1/2" Ice	2.23	1.77	0.11
RADIO 4449 B71 B85A_T-MOBILE	A	From Leg	4.00	0.00	0.0000	146.00	1" Ice	2.81	2.30	0.19
							2" Ice	2.81	2.30	0.19
							No Ice	1.97	1.59	0.07
							1/2" Ice	2.15	1.75	0.09
RADIO 4449 B71 B85A_T-MOBILE	B	From Leg	4.00	0.00	0.0000	146.00	1" Ice	2.33	1.92	0.12
							2" Ice	2.72	2.28	0.17
							No Ice	1.97	1.59	0.07
							1/2" Ice	2.15	1.75	0.09
RADIO 4449 B71 B85A_T-MOBILE	C	From Leg	4.00	0.00	0.0000	146.00	1" Ice	2.33	1.92	0.12
							2" Ice	2.72	2.28	0.17
							No Ice	1.97	1.59	0.07
							1/2" Ice	2.15	1.75	0.09
*****										
APXV18-206517S-C	A	From Leg	1.00	0.00	0.0000	139.00	No Ice	3.83	1.81	0.03
			0.00				1/2"	4.46	2.41	0.05

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft	C <sub>AA</sub> Front ft <sup>2</sup>	C <sub>AA</sub> Side ft <sup>2</sup>	Weight K
			0.00			Ice 5.11	3.03	0.09
						1" Ice 6.44	4.31	0.17
						2" Ice		
APXV18-206517S-C	B	From Leg	1.00	0.0000	139.00	No Ice 3.83	1.81	0.03
			0.00			1/2" 4.46	2.41	0.05
			0.00			Ice 5.11	3.03	0.09
						1" Ice 6.44	4.31	0.17
						2" Ice		
APXV18-206517S-C	C	From Leg	1.00	0.0000	139.00	No Ice 3.83	1.81	0.03
			0.00			1/2" 4.46	2.41	0.05
			0.00			Ice 5.11	3.03	0.09
						1" Ice 6.44	4.31	0.17
						2" Ice		
Pipe Mount [PM 601-3]	C	None		0.0000	139.00	No Ice 3.17	3.17	0.20
						1/2" 3.79	3.79	0.23
						Ice 4.42	4.42	0.28
						1" Ice 5.76	5.76	0.40
						2" Ice		
*****								
BXA-80080-6CF-EDIN-X w/ Mount Pipe	A	From Leg	4.00	0.0000	132.00	No Ice 6.01	6.20	0.04
			0.00			1/2" 6.56	7.36	0.10
			2.00			Ice 7.08	8.23	0.16
						1" Ice 8.14	10.02	0.31
						2" Ice		
BXA-80080-6CF-EDIN-X w/ Mount Pipe	B	From Leg	4.00	0.0000	132.00	No Ice 6.01	6.20	0.04
			0.00			1/2" 6.56	7.36	0.10
			2.00			Ice 7.08	8.23	0.16
						1" Ice 8.14	10.02	0.31
						2" Ice		
BXA-80080-6CF-EDIN-X w/ Mount Pipe	C	From Leg	4.00	0.0000	132.00	No Ice 6.01	6.20	0.04
			0.00			1/2" 6.56	7.36	0.10
			2.00			Ice 7.08	8.23	0.16
						1" Ice 8.14	10.02	0.31
						2" Ice		
DB-T1-6Z-8AB-0Z	B	From Leg	4.00	0.0000	132.00	No Ice 4.80	2.00	0.04
			0.00			1/2" 5.07	2.19	0.08
			1.00			Ice 5.35	2.39	0.12
						1" Ice 5.93	2.81	0.21
						2" Ice		
DB-T1-6Z-8AB-0Z	C	From Leg	4.00	0.0000	132.00	No Ice 4.80	2.00	0.04
			0.00			1/2" 5.07	2.19	0.08
			1.00			Ice 5.35	2.39	0.12
						1" Ice 5.93	2.81	0.21
						2" Ice		
6' x 2" Mount Pipe	A	From Leg	4.00	0.0000	132.00	No Ice 1.43	1.43	0.02
			0.00			1/2" 1.92	1.92	0.03
			0.00			Ice 2.29	2.29	0.05
						1" Ice 3.06	3.06	0.09
						2" Ice		
6' x 2" Mount Pipe	B	From Leg	4.00	0.0000	132.00	No Ice 1.43	1.43	0.02
			0.00			1/2" 1.92	1.92	0.03
			0.00			Ice 2.29	2.29	0.05
						1" Ice 3.06	3.06	0.09
						2" Ice		
6' x 2" Mount Pipe	C	From Leg	4.00	0.0000	132.00	No Ice 1.43	1.43	0.02
			0.00			1/2" 1.92	1.92	0.03
			0.00			Ice 2.29	2.29	0.05
						1" Ice 3.06	3.06	0.09
						2" Ice		
Platform Mount [LP 1201-1_HR-1]	C	None		0.0000	132.00	No Ice 26.39	26.39	2.36
						1/2" 31.40	31.40	3.06
						Ice 36.20	36.20	3.86
						1" Ice 45.40	45.40	5.76
						2" Ice		

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C <sub>AA</sub> Front	C <sub>AA</sub> Side	Weight
			Horz	Lateral					
			ft	ft	°	ft	ft <sup>2</sup>	ft <sup>2</sup>	K
NHH-65B-R2B	A	From Leg	4.00	0.0000	132.00	No Ice	4.16	2.49	0.04
			0.00			1/2"	4.56	2.88	0.09
			1.00			Ice	4.98	3.27	0.15
						1" Ice	5.84	4.08	0.28
						2" Ice			
NHH-65B-R2B	B	From Leg	4.00	0.0000	132.00	No Ice	4.16	2.49	0.04
			0.00			1/2"	4.56	2.88	0.09
			1.00			Ice	4.98	3.27	0.15
						1" Ice	5.84	4.08	0.28
						2" Ice			
NHH-65B-R2B	C	From Leg	4.00	0.0000	132.00	No Ice	4.16	2.49	0.04
			0.00			1/2"	4.56	2.88	0.09
			1.00			Ice	4.98	3.27	0.15
						1" Ice	5.84	4.08	0.28
						2" Ice			
NHHSS-65B-R2B	A	From Leg	4.00	0.0000	132.00	No Ice	3.97	2.38	0.07
			0.00			1/2"	4.36	2.75	0.12
			1.00			Ice	4.76	3.12	0.17
						1" Ice	5.58	3.90	0.30
						2" Ice			
NHHSS-65B-R2B	B	From Leg	4.00	0.0000	132.00	No Ice	3.97	2.38	0.07
			0.00			1/2"	4.36	2.75	0.12
			1.00			Ice	4.76	3.12	0.17
						1" Ice	5.58	3.90	0.30
						2" Ice			
NHHSS-65B-R2B	C	From Leg	4.00	0.0000	132.00	No Ice	3.97	2.38	0.07
			0.00			1/2"	4.36	2.75	0.12
			1.00			Ice	4.76	3.12	0.17
						1" Ice	5.58	3.90	0.30
						2" Ice			
MT6407-77A w/ Mount Pipe	A	From Leg	4.00	0.0000	132.00	No Ice	4.91	2.68	0.10
			0.00			1/2"	5.26	3.14	0.14
			1.00			Ice	5.61	3.62	0.18
						1" Ice	6.36	4.63	0.29
						2" Ice			
MT6407-77A w/ Mount Pipe	B	From Leg	4.00	0.0000	132.00	No Ice	4.91	2.68	0.10
			0.00			1/2"	5.26	3.14	0.14
			1.00			Ice	5.61	3.62	0.18
						1" Ice	6.36	4.63	0.29
						2" Ice			
MT6407-77A w/ Mount Pipe	C	From Leg	4.00	0.0000	132.00	No Ice	4.91	2.68	0.10
			0.00			1/2"	5.26	3.14	0.14
			1.00			Ice	5.61	3.62	0.18
						1" Ice	6.36	4.63	0.29
						2" Ice			
RFV01U-D1A	A	From Leg	4.00	0.0000	132.00	No Ice	1.88	1.25	0.08
			0.00			1/2"	2.05	1.39	0.10
			1.00			Ice	2.22	1.54	0.12
						1" Ice	2.60	1.86	0.18
						2" Ice			
RFV01U-D1A	B	From Leg	4.00	0.0000	132.00	No Ice	1.88	1.25	0.08
			0.00			1/2"	2.05	1.39	0.10
			1.00			Ice	2.22	1.54	0.12
						1" Ice	2.60	1.86	0.18
						2" Ice			
RFV01U-D1A	C	From Leg	4.00	0.0000	132.00	No Ice	1.88	1.25	0.08
			0.00			1/2"	2.05	1.39	0.10
			1.00			Ice	2.22	1.54	0.12
						1" Ice	2.60	1.86	0.18
						2" Ice			
RFV01U-D2A	A	From Leg	4.00	0.0000	132.00	No Ice	1.88	1.01	0.07
			0.00			1/2"	2.05	1.14	0.09
			1.00			Ice	2.22	1.28	0.11
						1" Ice	2.60	1.59	0.15
						2" Ice			

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C <sub>AA</sub> <sub>Front</sub>	C <sub>AA</sub> <sub>Side</sub>	Weight
			Horz	Lateral					
			ft	ft	°	ft	ft <sup>2</sup>	ft <sup>2</sup>	K
RFV01U-D2A	B	From Leg	4.00	0.0000	132.00	No Ice	1.88	1.01	0.07
			0.00			1/2"	2.05	1.14	0.09
			1.00			Ice	2.22	1.28	0.11
						1" Ice	2.60	1.59	0.15
						2" Ice			
RFV01U-D2A	C	From Leg	4.00	0.0000	132.00	No Ice	1.88	1.01	0.07
			0.00			1/2"	2.05	1.14	0.09
			1.00			Ice	2.22	1.28	0.11
						1" Ice	2.60	1.59	0.15
						2" Ice			
Side By Side Mounting Kit [#BASMNT_SBS-1-2]	A	From Leg	4.00	0.0000	132.00	No Ice	1.90	1.90	0.03
			0.00			1/2"	2.73	2.73	0.04
			0.00			Ice	3.40	3.40	0.06
						1" Ice	4.40	4.40	0.12
						2" Ice			
Side By Side Mounting Kit [#BASMNT_SBS-1-2]	B	From Leg	4.00	0.0000	132.00	No Ice	1.90	1.90	0.03
			0.00			1/2"	2.73	2.73	0.04
			0.00			Ice	3.40	3.40	0.06
						1" Ice	4.40	4.40	0.12
						2" Ice			
Side By Side Mounting Kit [#BASMNT_SBS-1-2]	C	From Leg	4.00	0.0000	132.00	No Ice	1.90	1.90	0.03
			0.00			1/2"	2.73	2.73	0.04
			0.00			Ice	3.40	3.40	0.06
						1" Ice	4.40	4.40	0.12
						2" Ice			
*****									
MX08FRO665-21 w/ Mount Pipe	A	From Leg	4.00	0.0000	114.00	No Ice	8.01	4.23	0.11
			0.00			1/2"	8.52	4.69	0.19
			0.00			Ice	9.04	5.16	0.29
						1" Ice	10.11	6.12	0.52
						2" Ice			
MX08FRO665-21 w/ Mount Pipe	B	From Leg	4.00	0.0000	114.00	No Ice	8.01	4.23	0.11
			0.00			1/2"	8.52	4.69	0.19
			0.00			Ice	9.04	5.16	0.29
						1" Ice	10.11	6.12	0.52
						2" Ice			
MX08FRO665-21 w/ Mount Pipe	C	From Leg	4.00	0.0000	114.00	No Ice	8.01	4.23	0.11
			0.00			1/2"	8.52	4.69	0.19
			0.00			Ice	9.04	5.16	0.29
						1" Ice	10.11	6.12	0.52
						2" Ice			
TA08025-B604	A	From Leg	4.00	0.0000	114.00	No Ice	1.96	0.98	0.06
			0.00			1/2"	2.14	1.11	0.08
			0.00			Ice	2.32	1.25	0.10
						1" Ice	2.71	1.55	0.15
						2" Ice			
TA08025-B604	B	From Leg	4.00	0.0000	114.00	No Ice	1.96	0.98	0.06
			0.00			1/2"	2.14	1.11	0.08
			0.00			Ice	2.32	1.25	0.10
						1" Ice	2.71	1.55	0.15
						2" Ice			
TA08025-B604	C	From Leg	4.00	0.0000	114.00	No Ice	1.96	0.98	0.06
			0.00			1/2"	2.14	1.11	0.08
			0.00			Ice	2.32	1.25	0.10
						1" Ice	2.71	1.55	0.15
						2" Ice			
TA08025-B605	A	From Leg	4.00	0.0000	114.00	No Ice	1.96	1.13	0.08
			0.00			1/2"	2.14	1.27	0.09
			0.00			Ice	2.32	1.41	0.11
						1" Ice	2.71	1.72	0.16
						2" Ice			
TA08025-B605	B	From Leg	4.00	0.0000	114.00	No Ice	1.96	1.13	0.08
			0.00			1/2"	2.14	1.27	0.09
			0.00			Ice	2.32	1.41	0.11
						1" Ice	2.71	1.72	0.16
						2" Ice			

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft	C <sub>AA</sub> Front ft <sup>2</sup>	C <sub>AA</sub> Side ft <sup>2</sup>	Weight K	
TA08025-B605	C	From Leg	4.00 0.00 0.00	0.0000	114.00	2" Ice			
						No Ice	1.96	1.13	0.08
						1/2"	2.14	1.27	0.09
						Ice	2.32	1.41	0.11
						1" Ice	2.71	1.72	0.16
RDIDC-9181-PF-48	A	From Leg	4.00 0.00 0.00	0.0000	114.00	2" Ice			
						No Ice	2.01	1.17	0.02
						1/2"	2.19	1.31	0.04
						Ice	2.37	1.46	0.06
						1" Ice	2.76	1.78	0.11
(2) 8' x 2" Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	114.00	2" Ice			
						No Ice	1.90	1.90	0.03
						1/2"	2.73	2.73	0.04
						Ice	3.40	3.40	0.06
						1" Ice	4.40	4.40	0.12
(2) 8' x 2" Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	114.00	2" Ice			
						No Ice	1.90	1.90	0.03
						1/2"	2.73	2.73	0.04
						Ice	3.40	3.40	0.06
						1" Ice	4.40	4.40	0.12
(2) 8' x 2" Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	114.00	2" Ice			
						No Ice	1.90	1.90	0.03
						1/2"	2.73	2.73	0.04
						Ice	3.40	3.40	0.06
						1" Ice	4.40	4.40	0.12
Commscope MC-PK8-DSH	C	None		0.0000	114.00	2" Ice			
						No Ice	34.24	34.24	1.75
						1/2"	62.95	62.95	2.10
						Ice	91.66	91.66	2.45
						1" Ice	149.08	149.08	3.15
*****									
58532A	A	From Leg	3.00 0.00 1.00	0.0000	101.00	2" Ice			
						No Ice	0.19	0.19	0.00
						1/2"	0.25	0.25	0.00
						Ice	0.31	0.31	0.01
						1" Ice	0.47	0.47	0.02
Side Arm Mount [SO 701-1]	A	From Leg	1.50 0.00 0.00	0.0000	101.00	2" Ice			
						No Ice	0.85	1.67	0.07
						1/2"	1.14	2.34	0.08
						Ice	1.43	3.01	0.09
						1" Ice	2.01	4.35	0.12
*****									

## Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice

Comb. No.	Description
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

**Maximum Member Forces**

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	160.333 - 155.333	Pole	Max Tension	48	0.00	0.00	-0.00
			Max. Compression	26	-15.14	-2.70	-0.02
			Max. Mx	8	-4.23	-11.05	-0.15
			Max. My	14	-4.27	-0.33	-10.69
			Max. Vy	8	7.52	-11.05	-0.15
			Max. Vx	2	-7.52	-0.26	10.54
			Max. Torque	3			-1.59
L2	155.333 - 150.333	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-16.32	-3.12	0.15
			Max. Mx	8	-4.67	-50.38	-0.21
			Max. My	14	-4.75	-0.51	-48.91
			Max. Vy	8	8.18	-50.38	-0.21
			Max. Vx	2	-7.78	-0.26	48.83
			Max. Torque	13			1.64
L3	150.333 - 146.833	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-17.15	-3.42	0.28
			Max. Mx	8	-4.98	-79.84	-0.26
			Max. My	14	-5.10	-0.64	-76.44
			Max. Vy	8	8.63	-79.84	-0.26
			Max. Vx	2	-7.96	-0.25	76.40
			Max. Torque	13			1.69
L4	146.833 -	Pole	Max Tension	1	0.00	0.00	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
	146.333		Max. Compression	26	-17.29	-3.47	0.30
			Max. Mx	8	-5.04	-84.19	-0.27
			Max. My	14	-5.16	-0.66	-80.42
			Max. Vy	8	8.71	-84.19	-0.27
			Max. Vx	2	-8.00	-0.25	80.40
			Max. Torque	13			1.69
L5	146.333 - 141.333	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-31.13	-4.19	0.62
			Max. Mx	8	-9.97	-157.49	-0.29
			Max. My	2	-10.15	-0.32	149.28
			Max. Vy	8	14.77	-157.49	-0.29
			Max. Vx	2	-13.77	-0.32	149.28
			Max. Torque	13			1.69
L6	141.333 - 136.333	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-33.53	-4.95	0.96
			Max. Mx	8	-10.79	-235.07	-0.31
			Max. My	2	-10.99	-0.40	221.12
			Max. Vy	8	16.17	-235.07	-0.31
			Max. Vx	2	-14.90	-0.40	221.12
			Max. Torque	13			1.69
L7	136.333 - 131.333	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-46.96	-5.69	0.25
			Max. Mx	8	-15.45	-325.06	-0.52
			Max. My	2	-15.71	-0.46	303.62
			Max. Vy	8	22.06	-325.06	-0.52
			Max. Vx	2	-20.40	-0.46	303.62
			Max. Torque	13			1.69
L8	131.333 - 126.333	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-48.76	-6.28	0.76
			Max. Mx	8	-16.28	-437.51	-0.48
			Max. My	2	-16.54	-0.45	407.30
			Max. Vy	8	22.91	-437.51	-0.48
			Max. Vx	2	-21.04	-0.45	407.30
			Max. Torque	3			-1.58
L9	126.333 - 121.333	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-50.63	-6.86	1.29
			Max. Mx	8	-17.15	-554.15	-0.42
			Max. My	2	-17.41	-0.44	514.19
			Max. Vy	8	23.75	-554.15	-0.42
			Max. Vx	2	-21.68	-0.44	514.19
			Max. Torque	3			-1.58
L10	121.333 - 120.083	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-51.15	-7.01	1.43
			Max. Mx	8	-17.37	-583.97	-0.41
			Max. My	2	-17.63	-0.44	541.41
			Max. Vy	8	23.96	-583.97	-0.41
			Max. Vx	2	-21.85	-0.44	541.41
			Max. Torque	3			-1.58
L11	120.083 - 119.833	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-51.27	-7.04	1.46
			Max. Mx	8	-17.45	-589.97	-0.41
			Max. My	2	-17.70	-0.44	546.88
			Max. Vy	8	23.99	-589.97	-0.41
			Max. Vx	2	-21.87	-0.44	546.88
			Max. Torque	3			-1.58
L12	119.833 - 117.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-52.43	-7.30	1.69
			Max. Mx	8	-18.00	-646.37	-0.38
			Max. My	2	-18.25	-0.43	598.38
			Max. Vy	8	24.34	-646.37	-0.38



Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L13	117.5 - 117.25	Pole	Max. Vx	2	-22.23	-0.43	598.38
			Max. Torque	3			-1.58
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-52.57	-7.32	1.71
			Max. Mx	8	-18.08	-652.46	-0.37
			Max. My	2	-18.33	-0.43	603.95
			Max. Vy	8	24.38	-652.46	-0.37
L14	117.25 - 115.5	Pole	Max. Vx	2	-22.26	-0.43	603.95
			Max. Torque	3			-1.58
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-53.52	-7.53	1.90
			Max. Mx	8	-18.52	-695.37	-0.35
			Max. My	2	-18.76	-0.42	643.24
			Max. Vy	8	24.65	-695.37	-0.35
L15	115.5 - 115.25	Pole	Max. Vx	2	-22.60	-0.42	643.24
			Max. Torque	3			-1.59
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-53.67	-7.56	1.93
			Max. Mx	8	-18.61	-701.54	-0.35
			Max. My	2	-18.85	-0.42	648.90
			Max. Vy	8	24.68	-701.54	-0.35
L16	115.25 - 110.25	Pole	Max. Vx	2	-22.64	-0.42	648.90
			Max. Torque	3			-1.59
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-63.51	-8.21	3.09
			Max. Mx	8	-23.06	-840.59	-0.17
			Max. My	2	-23.28	-0.42	778.62
			Max. Vy	8	29.10	-840.59	-0.17
L17	110.25 - 104.083	Pole	Max. Vx	2	-27.31	-0.42	778.62
			Max. Torque	3			-1.64
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-64.97	-8.54	3.39
			Max. Mx	8	-23.80	-911.79	-0.12
			Max. My	2	-24.01	-0.43	845.65
			Max. Vy	8	29.48	-911.79	-0.12
L18	104.083 - 102.82	Pole	Max. Vx	2	-27.80	-0.43	845.65
			Max. Torque	3			-1.66
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-69.23	-9.22	4.02
			Max. Mx	8	-26.26	-1061.49	-0.04
			Max. My	2	-26.45	-0.43	987.64
			Max. Vy	8	30.36	-1061.49	-0.04
L19	102.82 - 100.5	Pole	Max. Vx	2	-28.92	-0.43	987.64
			Max. Torque	3			-1.70
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-70.83	-9.54	4.74
			Max. Mx	8	-27.12	-1132.41	0.20
			Max. My	2	-27.29	-0.44	1055.58
			Max. Vy	8	30.81	-1132.41	0.20
L20	100.5 - 100.25	Pole	Max. Vx	2	-29.44	-0.44	1055.58
			Max. Torque	23			-1.94
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-70.99	-9.58	4.78
			Max. Mx	8	-27.21	-1140.12	0.20
			Max. My	2	-27.39	-0.44	1062.95
			Max. Vy	8	30.84	-1140.12	0.20
L21	100.25 - 98.5	Pole	Max. Vx	2	-29.48	-0.44	1062.95
			Max. Torque	23			-1.95
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-72.13	-9.82	5.05

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L22	98.5 - 98.25	Pole	Max. Mx	8	-27.77	-1194.35	0.24
			Max. My	2	-27.94	-0.44	1114.91
			Max. Vy	8	31.12	-1194.35	0.24
			Max. Vx	2	-29.85	-0.44	1114.91
			Max. Torque	23			-1.98
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-72.29	-9.86	5.09
			Max. Mx	8	-27.88	-1202.13	0.24
			Max. My	2	-28.04	-0.44	1122.38
			Max. Vy	8	31.14	-1202.13	0.24
L23	98.25 - 93.25	Pole	Max. Vx	2	-29.88	-0.44	1122.38
			Max. Torque	23			-1.98
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-75.46	-10.57	5.86
			Max. Mx	8	-29.61	-1359.78	0.33
			Max. My	2	-29.75	-0.45	1274.38
			Max. Vy	8	31.90	-1359.78	0.33
			Max. Vx	2	-30.87	-0.45	1274.38
			Max. Torque	23			-1.98
			Max Tension	1	0.00	0.00	0.00
L24	93.25 - 90.5	Pole	Max. Compression	26	-77.19	-10.95	6.27
			Max. Mx	8	-30.58	-1448.07	0.39
			Max. My	2	-30.71	-0.46	1359.91
			Max. Vy	8	32.31	-1448.07	0.39
			Max. Vx	2	-31.29	-0.46	1359.91
			Max. Torque	23			-1.98
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-77.36	-10.99	6.31
			Max. Mx	8	-30.69	-1456.15	0.39
			Max. My	2	-30.82	-0.46	1367.75
L25	90.5 - 90.25	Pole	Max. Vy	8	32.33	-1456.15	0.39
			Max. Vx	2	-31.33	-0.46	1367.75
			Max. Torque	23			-1.98
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-80.76	-11.68	7.11
			Max. Mx	8	-32.65	-1619.74	0.49
			Max. My	2	-32.75	-0.48	1527.01
			Max. Vy	8	33.08	-1619.74	0.49
			Max. Vx	2	-32.32	-0.48	1527.01
			Max. Torque	23			-1.98
L26	90.25 - 85.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-82.07	-11.93	7.35
			Max. Mx	8	-33.33	-1677.94	0.53
			Max. My	2	-33.43	-0.48	1583.93
			Max. Vy	8	33.44	-1677.94	0.53
			Max. Vx	2	-32.69	-0.48	1583.93
			Max. Torque	23			-2.00
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-82.27	-11.96	7.39
			Max. Mx	8	-33.47	-1686.31	0.53
L27	85.25 - 83.5	Pole	Max. My	2	-33.57	-0.48	1592.11
			Max. Vy	8	33.47	-1686.31	0.53
			Max. Vx	2	-32.72	-0.48	1592.11
			Max. Torque	23			-2.00
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-84.33	-12.30	7.72
			Max. Mx	8	-34.63	-1770.54	0.59
			Max. My	2	-34.72	-0.49	1674.66
			Max. Vy	8	33.89	-1770.54	0.59
			Max. Vx	2	-33.26	-0.49	1674.66
L28	83.5 - 83.25	Pole	Max. Torque	23			-2.02
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-84.55	-12.34	7.76
			Max. Mx	8	-34.77	-1779.02	0.59
			Max. My	2	-34.86	-0.49	1682.99
			Max. Vy	8	33.92	-1779.02	0.59
			Max. Vx	2	-33.92	-0.49	1682.99
			Max. Torque	23			-2.02
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-84.55	-12.34	7.76
L29	83.25 - 80.75	Pole	Max. Mx	8	-34.77	-1779.02	0.59
			Max. My	2	-34.86	-0.49	1682.99
			Max. Vy	8	33.92	-1779.02	0.59
			Max. Vx	2	-33.92	-0.49	1682.99
			Max. Torque	23			-2.02
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-84.55	-12.34	7.76
			Max. Mx	8	-34.77	-1779.02	0.59
			Max. My	2	-34.86	-0.49	1682.99
			Max. Vy	8	33.92	-1779.02	0.59
L30	80.75 - 80.5	Pole	Max. Vx	2	-33.92	-0.49	1682.99
			Max. Torque	23			-2.02
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-84.55	-12.34	7.76
			Max. Mx	8	-34.77	-1779.02	0.59
			Max. My	2	-34.86	-0.49	1682.99
			Max. Vy	8	33.92	-1779.02	0.59
			Max. Vx	2	-33.92	-0.49	1682.99
			Max. Torque	23			-2.02
			Max Tension	1	0.00	0.00	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L31	80.5 - 80.25	Pole	Max. Vx	2	-33.31	-0.49	1682.99
			Max. Torque	23			-2.02
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-84.77	-12.37	7.79
			Max. Mx	8	-34.89	-1787.51	0.60
			Max. My	2	-34.98	-0.49	1691.34
			Max. Vy	8	33.97	-1787.51	0.60
L32	80.25 - 77.5	Pole	Max. Vx	2	-33.36	-0.49	1691.34
			Max. Torque	23			-2.03
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-87.14	-12.75	8.16
			Max. Mx	8	-36.26	-1881.60	0.66
			Max. My	2	-36.34	-0.51	1783.99
			Max. Vy	8	34.44	-1881.60	0.66
L33	77.5 - 77.25	Pole	Max. Vx	2	-33.96	-0.51	1783.99
			Max. Torque	23			-2.05
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-87.33	-12.79	8.20
			Max. Mx	8	-36.38	-1890.22	0.66
			Max. My	2	-36.46	-0.51	1792.49
			Max. Vy	8	34.47	-1890.22	0.66
L34	77.25 - 68.82	Pole	Max. Vx	2	-34.00	-0.51	1792.49
			Max. Torque	23			-2.06
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-90.37	-13.32	8.74
			Max. Mx	8	-38.12	-2027.92	0.75
			Max. My	2	-38.18	-0.52	1928.79
			Max. Vy	8	35.08	-2027.92	0.75
L35	68.82 - 68.291	Pole	Max. Vx	2	-34.80	-0.52	1928.79
			Max. Torque	23			-2.10
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-96.29	-13.99	9.43
			Max. Mx	8	-41.98	-2205.61	0.87
			Max. My	2	-42.03	-0.55	2105.79
			Max. Vy	8	35.96	-2205.61	0.87
L36	68.291 - 64.25	Pole	Max. Vx	2	-35.91	-0.55	2105.79
			Max. Torque	23			-2.15
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-99.53	-14.54	9.99
			Max. Mx	8	-43.90	-2352.18	0.96
			Max. My	2	-43.93	-0.57	2252.62
			Max. Vy	8	36.56	-2352.18	0.96
L37	64.25 - 64	Pole	Max. Vx	2	-36.70	-0.57	2252.62
			Max. Torque	23			-2.19
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-99.75	-14.58	10.03
			Max. Mx	8	-44.04	-2361.32	0.97
			Max. My	2	-44.07	-0.57	2261.80
			Max. Vy	8	36.58	-2361.32	0.97
L38	64 - 60.5	Pole	Max. Vx	2	-36.74	-0.57	2261.80
			Max. Torque	23			-2.19
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-102.74	-15.04	10.49
			Max. Mx	8	-45.80	-2490.37	1.05
			Max. My	2	-45.82	-0.59	2391.74
			Max. Vy	8	37.13	-2490.37	1.05
L39	60.5 - 60.25	Pole	Max. Vx	2	-37.45	-0.59	2391.74
			Max. Torque	23			-2.19
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-102.97	-15.08	10.53
			Max. Mx	8	-45.94	-2499.66	1.06
			Max. My	2	-45.97	-0.59	2401.11
			Max. Vy	8	37.17	-2499.66	1.06
L40	60.25 -	Pole	Max. Vx	2	-37.49	-0.59	2401.11
			Max. Torque	23			-2.19
			Max Tension	1	0.00	0.00	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
	60.083		Max. Compression	26	-103.13	-15.10	10.55
			Max. Mx	8	-46.03	-2505.87	1.06
			Max. My	2	-46.06	-0.59	2407.38
			Max. Vy	8	37.20	-2505.87	1.06
			Max. Vx	2	-37.52	-0.59	2407.38
			Max. Torque	23			-2.19
L41	60.083 - 59.833	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-103.36	-15.14	10.59
			Max. Mx	8	-46.17	-2515.18	1.07
			Max. My	2	-46.20	-0.59	2416.78
			Max. Vy	8	37.25	-2515.18	1.07
			Max. Vx	2	-37.57	-0.59	2416.78
			Max. Torque	23			-2.19
L42	59.833 - 59.083	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-104.05	-15.26	10.72
			Max. Mx	8	-46.58	-2543.20	1.09
			Max. My	2	-46.60	-0.60	2445.04
			Max. Vy	8	37.42	-2543.20	1.09
			Max. Vx	2	-37.73	-0.60	2445.04
			Max. Torque	23			-2.19
L43	59.083 - 58.833	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-104.29	-15.30	10.76
			Max. Mx	8	-46.73	-2552.56	1.09
			Max. My	2	-46.75	-0.60	2454.49
			Max. Vy	8	37.46	-2552.56	1.09
			Max. Vx	2	-37.77	-0.60	2454.49
			Max. Torque	23			-2.19
L44	58.833 - 55.4167	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-107.56	-15.83	11.34
			Max. Mx	8	-48.71	-2681.81	1.18
			Max. My	2	-48.73	-0.62	2584.86
			Max. Vy	8	38.18	-2681.81	1.18
			Max. Vx	2	-38.49	-0.62	2584.86
			Max. Torque	23			-2.19
L45	55.4167 - 55.1667	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-107.79	-15.87	11.38
			Max. Mx	8	-48.87	-2691.36	1.18
			Max. My	2	-48.89	-0.62	2594.50
			Max. Vy	8	38.22	-2691.36	1.18
			Max. Vx	2	-38.52	-0.62	2594.50
			Max. Torque	23			-2.19
L46	55.1667 - 54.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-108.19	-15.93	11.45
			Max. Mx	8	-49.11	-2707.32	1.19
			Max. My	2	-49.13	-0.62	2610.58
			Max. Vy	8	38.31	-2707.32	1.19
			Max. Vx	2	-38.61	-0.62	2610.58
			Max. Torque	23			-2.19
L47	54.75 - 54.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-108.42	-15.97	11.50
			Max. Mx	8	-49.24	-2716.90	1.20
			Max. My	2	-49.27	-0.62	2620.25
			Max. Vy	8	38.35	-2716.90	1.20
			Max. Vx	2	-38.66	-0.62	2620.25
			Max. Torque	23			-2.19
L48	54.5 - 49.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-112.72	-16.72	12.35
			Max. Mx	8	-51.85	-2910.62	1.33
			Max. My	2	-51.87	-0.65	2815.57
			Max. Vy	8	39.11	-2910.62	1.33
			Max. Vx	2	-39.41	-0.65	2815.57
			Max. Torque	23			-2.19

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L49	49.5 - 44.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-116.95	-17.42	13.19
			Max. Mx	8	-54.49	-3107.94	1.47
			Max. My	2	-54.51	-0.69	3014.41
			Max. Vy	8	39.81	-3107.94	1.47
			Max. Vx	2	-40.08	-0.69	3014.41
			Max. Torque	23			-2.19
L50	44.5 - 41.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-119.75	-17.83	13.65
			Max. Mx	8	-56.23	-3238.05	1.56
			Max. My	2	-56.25	-0.71	3145.45
			Max. Vy	8	40.25	-3238.05	1.56
			Max. Vx	2	-40.51	-0.71	3145.45
			Max. Torque	23			-2.19
L51	41.25 - 41	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-119.97	-17.86	13.69
			Max. Mx	8	-56.39	-3248.11	1.56
			Max. My	2	-56.40	-0.71	3155.59
			Max. Vy	8	40.27	-3248.11	1.56
			Max. Vx	2	-40.52	-0.71	3155.59
			Max. Torque	23			-2.19
L52	41 - 34.291	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-121.83	-18.13	13.97
			Max. Mx	8	-57.54	-3328.97	1.62
			Max. My	2	-57.55	-0.73	3236.99
			Max. Vy	8	40.56	-3328.97	1.62
			Max. Vx	2	-40.81	-0.73	3236.99
			Max. Torque	23			-2.19
L53	34.291 - 33.291	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-130.41	-18.90	14.79
			Max. Mx	8	-63.59	-3563.50	1.78
			Max. My	2	-63.61	-0.77	3472.94
			Max. Vy	8	41.59	-3563.50	1.78
			Max. Vx	2	-41.77	-0.77	3472.94
			Max. Torque	23			-2.19
L54	33.291 - 31.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-132.28	-19.15	15.04
			Max. Mx	8	-64.80	-3638.23	1.84
			Max. My	2	-64.81	-0.79	3548.03
			Max. Vy	8	41.86	-3638.23	1.84
			Max. Vx	2	-42.04	-0.79	3548.03
			Max. Torque	23			-2.19
L55	31.5 - 31.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-132.54	-19.18	15.08
			Max. Mx	8	-64.99	-3648.69	1.84
			Max. My	2	-65.00	-0.79	3558.54
			Max. Vy	8	41.88	-3648.69	1.84
			Max. Vx	2	-42.05	-0.79	3558.54
			Max. Torque	23			-2.19
L56	31.25 - 30.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-133.34	-19.29	15.23
			Max. Mx	8	-65.49	-3680.17	1.86
			Max. My	2	-65.51	-0.80	3590.15
			Max. Vy	8	42.03	-3680.17	1.86
			Max. Vx	2	-42.16	-0.80	3590.15
			Max. Torque	23			-2.19
L57	30.5 - 30.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-133.60	-19.32	15.26
			Max. Mx	8	-65.67	-3690.69	1.87
			Max. My	2	-65.68	-0.80	3600.70
			Max. Vy	8	42.07	-3690.69	1.87
			Max. Vx	2	-42.19	-0.80	3600.70
			Max. Torque	23			-2.19
L58	30.25 - 25.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-138.36	-19.93	15.90
			Max. Mx	8	-68.68	-3882.07	2.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L59	25.75 - 25.5	Pole	Max. My	2	-68.70	-0.83	3792.62
			Max. Vy	8	42.96	-3882.07	2.00
			Max. Vx	2	-43.04	-0.83	3792.62
			Max. Torque	23			-2.24
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-138.63	-19.96	15.93
			Max. Mx	8	-68.86	-3892.82	2.01
			Max. My	2	-68.87	-0.84	3803.39
L60	25.5 - 24.6667	Pole	Max. Vy	8	43.00	-3892.82	2.01
			Max. Vx	2	-43.07	-0.84	3803.39
			Max. Torque	23			-2.24
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-139.52	-20.07	16.03
			Max. Mx	8	-69.40	-3928.74	2.04
			Max. My	2	-69.41	-0.84	3839.39
			Max. Vy	8	43.20	-3928.74	2.04
L61	24.6667 - 24.4167	Pole	Max. Vx	2	-43.24	-0.84	3839.39
			Max. Torque	23			-2.25
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-139.76	-20.11	16.06
			Max. Mx	8	-69.55	-3939.55	2.04
			Max. My	2	-69.57	-0.85	3850.21
			Max. Vy	8	43.24	-3939.55	2.04
			Max. Vx	2	-43.27	-0.85	3850.21
L62	24.4167 - 24	Pole	Max. Torque	23			-2.26
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-140.17	-20.16	16.11
			Max. Mx	8	-69.79	-3957.60	2.06
			Max. My	2	-69.80	-0.85	3868.27
			Max. Vy	8	43.33	-3957.60	2.06
			Max. Vx	2	-43.35	-0.85	3868.27
			Max. Torque	23			-2.26
L63	24 - 23.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-140.42	-20.20	16.13
			Max. Mx	8	-69.94	-3968.44	2.06
			Max. My	2	-69.96	-0.85	3879.13
			Max. Vy	8	43.38	-3968.44	2.06
			Max. Vx	2	-43.39	-0.85	3879.13
			Max. Torque	23			-2.26
			Max Tension	1	0.00	0.00	0.00
L64	23.75 - 18.75	Pole	Max. Compression	26	-145.20	-20.78	16.61
			Max. Mx	8	-72.94	-4188.08	2.22
			Max. My	2	-72.95	-0.90	4098.42
			Max. Vy	8	44.45	-4188.08	2.22
			Max. Vx	2	-44.26	-0.90	4098.42
			Max. Torque	23			-2.33
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-149.53	-21.36	16.98
L65	18.75 - 14.083	Pole	Max. Mx	8	-75.77	-4397.65	2.36
			Max. My	2	-75.78	-0.94	4306.81
			Max. Vy	8	45.36	-4397.65	2.36
			Max. Vx	2	-45.00	-0.94	4306.81
			Max. Torque	23			-2.39
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-149.79	-21.39	17.00
			Max. Mx	8	-75.95	-4409.72	2.37
L66	14.083 - 13.817	Pole	Max. My	2	-75.96	-0.94	4318.79
			Max. Vy	8	45.39	-4409.72	2.37
			Max. Vx	2	-45.02	-0.94	4318.79
			Max. Torque	23			-2.39
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-149.93	-21.41	17.01
			Max. Mx	8	-76.04	-4416.54	2.38
			L67	13.817 - 13.667	Pole	Max. My	2
Max. Vy	8	43.00				-3892.82	2.01

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L68	13.667 - 10.5	Pole	Max. My	2	-76.06	-0.94	4325.55
			Max. Vy	8	45.41	-4416.54	2.38
			Max. Vx	2	-45.04	-0.94	4325.55
			Max. Torque	23			-2.40
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-152.93	-21.80	17.23
			Max. Mx	8	-78.01	-4561.37	2.48
			Max. My	2	-78.02	-0.97	4469.15
			Max. Vy	8	46.03	-4561.37	2.48
			Max. Vx	2	-45.58	-0.97	4469.15
L69	10.5 - 10.25	Pole	Max. Torque	23			-2.41
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-153.15	-21.83	17.25
			Max. Mx	8	-78.17	-4572.88	2.49
			Max. My	2	-78.18	-0.98	4480.55
			Max. Vy	8	46.05	-4572.88	2.49
			Max. Vx	2	-45.60	-0.98	4480.55
			Max. Torque	23			-2.41
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-157.57	-22.43	17.44
L70	10.25 - 5.25	Pole	Max. Mx	8	-81.19	-4805.40	2.62
			Max. My	2	-81.20	-1.02	4710.67
			Max. Vy	8	46.93	-4805.40	2.62
			Max. Vx	2	-46.40	-1.02	4710.67
			Max. Torque	23			-2.42
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-159.23	-22.59	17.31
			Max. Mx	8	-82.39	-4916.09	2.60
			Max. My	2	-82.39	-1.04	4820.03
			Max. Vy	8	47.29	-4916.09	2.60
L71	5.25 - 2.9	Pole	Max. Vx	2	-46.73	-1.04	4820.03
			Max. Torque	23			-2.42
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-159.40	-22.60	17.30
			Max. Mx	8	-82.53	-4927.91	2.60
			Max. My	2	-82.54	-1.04	4831.71
			Max. Vy	8	47.30	-4927.91	2.60
			Max. Vx	2	-46.73	-1.04	4831.71
			Max. Torque	23			-2.42
			Max Tension	1	0.00	0.00	0.00
L72	2.9 - 2.65	Pole	Max. Compression	26	-159.51	-22.61	17.29
			Max. Mx	8	-82.61	-4935.01	2.59
			Max. My	2	-82.62	-1.04	4838.73
			Max. Vy	8	47.31	-4935.01	2.59
			Max. Vx	2	-46.75	-1.04	4838.73
			Max. Torque	23			-2.42
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-159.69	-22.63	17.28
			Max. Mx	8	-82.75	-4946.85	2.59
			Max. My	2	-82.75	-1.04	4850.42
L73	2.65 - 2.5	Pole	Max. Vy	8	47.36	-4946.85	2.59
			Max. Vx	2	-46.79	-1.04	4850.42
			Max. Torque	23			-2.42
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-159.93	-22.65	17.27
			Max. Mx	8	-82.93	-4962.64	2.59
			Max. My	2	-82.93	-1.05	4866.01
			Max. Vy	8	47.41	-4962.64	2.59
			Max. Vx	2	-46.84	-1.05	4866.01
			Max. Torque	23			-2.42
L74	2.5 - 2.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-160.10	-22.67	17.25
			Max. Mx	8	-83.05	-4974.50	2.59
			Max. My	2	-83.06	-1.05	4877.72
			Max. Vy	8	47.45	-4974.50	2.59
			Max. Vx	2	-46.87	-1.05	4877.72
			Max. Torque	23			-2.42
			Max. Compression	26	-160.10	-22.67	17.25
			Max. Mx	8	-83.05	-4974.50	2.59
			Max. My	2	-83.06	-1.05	4877.72
L75	2.25 - 1.917	Pole	Max. Vy	8	47.45	-4974.50	2.59
			Max. Vx	2	-46.87	-1.05	4877.72
			Max. Torque	23			-2.42
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-160.10	-22.67	17.25
			Max. Mx	8	-83.05	-4974.50	2.59
			Max. My	2	-83.06	-1.05	4877.72
			Max. Vy	8	47.45	-4974.50	2.59
			Max. Vx	2	-46.87	-1.05	4877.72
			Max. Torque	23			-2.42
L76	1.917 - 1.667	Pole	Max. Torque	23			-2.42
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-160.10	-22.67	17.25
			Max. Mx	8	-83.05	-4974.50	2.59
			Max. My	2	-83.06	-1.05	4877.72
			Max. Vy	8	47.45	-4974.50	2.59
			Max. Vx	2	-46.87	-1.05	4877.72
			Max. Torque	23			-2.42
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-160.10	-22.67	17.25

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L77	1.667 - 0	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-161.21	-22.77	17.19
			Max. Mx	8	-83.88	-5053.83	2.57
			Max. My	2	-83.88	-1.06	4956.06
			Max. Vy	8	47.74	-5053.83	2.57
			Max. Vx	2	-47.15	-1.06	4956.06
			Max. Torque	23			-2.42

### Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K	
Pole	Max. Vert	36	161.21	11.92	0.00	
	Max. H <sub>x</sub>	20	83.91	47.69	0.02	
	Max. H <sub>z</sub>	2	83.91	0.02	47.10	
	Max. M <sub>x</sub>	2	4956.06	0.02	47.10	
	Max. M <sub>z</sub>	8	5053.83	-47.69	-0.02	
	Max. Torsion	11	2.41	-41.10	-23.69	
	Min. Vert	19	62.93	36.63	-21.09	
	Min. H <sub>x</sub>	8	83.91	-47.69	-0.02	
	Min. H <sub>z</sub>	14	83.91	-0.02	-47.10	
	Min. M <sub>x</sub>	14	-4944.62	-0.02	-47.10	
	Min. M <sub>z</sub>	20	-5045.40	47.69	0.02	
	Min. Torsion	23		-2.42	41.10	23.69

### Tower Mast Reaction Summary

Load Combination	Vertical K	Shear <sub>x</sub> K	Shear <sub>z</sub> K	Overturing Moment, M <sub>x</sub> kip-ft	Overturing Moment, M <sub>z</sub> kip-ft	Torque kip-ft
Dead Only	69.93	0.00	-0.00	-4.60	-3.38	-0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	83.91	-0.02	-47.10	-4956.06	-1.06	2.05
0.9 Dead+1.0 Wind 0 deg - No Ice	62.93	-0.03	-47.10	-4894.82	0.01	2.06
1.2 Dead+1.0 Wind 30 deg - No Ice	83.91	22.88	-39.56	-4126.88	-2388.28	1.17
0.9 Dead+1.0 Wind 30 deg - No Ice	62.93	22.88	-39.56	-4075.42	-2358.27	1.17
1.2 Dead+1.0 Wind 60 deg - No Ice	83.91	36.63	-21.09	-2290.38	-3975.81	0.33
0.9 Dead+1.0 Wind 60 deg - No Ice	62.93	36.63	-21.09	-2260.74	-3925.76	0.34
1.2 Dead+1.0 Wind 90 deg - No Ice	83.91	47.69	0.02	-2.57	-5053.83	-1.37
0.9 Dead+1.0 Wind 90 deg - No Ice	62.93	47.69	0.02	-1.14	-4990.92	-1.37
1.2 Dead+1.0 Wind 120 deg - No Ice	83.91	41.10	23.69	2545.34	-4430.94	-2.41
0.9 Dead+1.0 Wind 120 deg - No Ice	62.93	41.10	23.69	2515.69	-4375.82	-2.41
1.2 Dead+1.0 Wind 150 deg - No Ice	83.91	22.26	38.45	4126.12	-2398.09	-1.94
0.9 Dead+1.0 Wind 150 deg - No Ice	62.93	22.26	38.45	4076.73	-2367.51	-1.94
1.2 Dead+1.0 Wind 180 deg - No Ice	83.91	0.02	47.10	4944.62	-7.35	-2.05
0.9 Dead+1.0 Wind 180 deg - No Ice	62.93	0.02	47.10	4886.35	-6.21	-2.06
1.2 Dead+1.0 Wind 210 deg - No Ice	83.91	-22.88	39.56	4115.43	2379.86	-1.17
0.9 Dead+1.0 Wind 210 deg - No Ice	62.93	-22.88	39.56	4066.94	2352.06	-1.17
1.2 Dead+1.0 Wind 240 deg - No Ice	83.91	-36.63	21.09	2278.92	3967.39	-0.34
0.9 Dead+1.0 Wind 240 deg - No Ice	62.93	-36.63	21.09	2252.25	3919.54	-0.34
1.2 Dead+1.0 Wind 270 deg - No Ice	83.91	-47.69	-0.02	-8.87	5045.40	1.37
0.9 Dead+1.0 Wind 270 deg - No Ice	62.93	-47.69	-0.02	-7.34	4984.70	1.37
1.2 Dead+1.0 Wind 300 deg - No Ice	83.91	-41.10	-23.69	-2556.77	4422.52	2.41
0.9 Dead+1.0 Wind 300 deg - No Ice	62.93	-41.10	-23.69	-2524.15	4369.61	2.42
1.2 Dead+1.0 Wind 330 deg - No Ice	83.91	-22.26	-38.45	-4137.56	2389.66	1.94
0.9 Dead+1.0 Wind 330 deg - No Ice	62.93	-22.26	-38.45	-4085.20	2361.28	1.94
1.2 Dead+1.0 Ice+1.0 Temp	161.21	0.00	-0.00	-17.19	-22.77	-0.00
Temp	161.21	-0.00	-11.75	-1418.66	-22.40	0.64
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	161.21	5.54	-9.58	-1166.24	-687.84	0.31



Load Combination	Vertical	Shear <sub>x</sub>	Shear <sub>z</sub>	Overturning Moment, M <sub>x</sub>	Overturning Moment, M <sub>z</sub>	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	161.21	9.10	-5.24	-665.32	-1149.09	0.07
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	161.21	11.92	0.00	-16.79	-1466.86	-0.56
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	161.21	10.51	6.06	718.31	-1299.78	-0.93
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	161.21	5.35	9.24	1119.46	-681.40	-0.51
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	161.21	0.00	11.75	1384.07	-23.41	-0.64
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	161.21	-5.54	9.58	1131.65	642.04	-0.31
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	161.21	-9.10	5.24	630.73	1103.29	-0.07
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	161.21	-11.92	-0.00	-17.80	1421.06	0.56
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	161.21	-10.51	-6.06	-752.91	1253.99	0.92
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	161.21	-5.35	-9.24	-1154.06	635.59	0.51
Dead+Wind 0 deg - Service	69.93	-0.00	-10.22	-1072.04	-2.82	0.46
Dead+Wind 30 deg - Service	69.93	4.97	-8.59	-893.19	-517.46	0.27
Dead+Wind 60 deg - Service	69.93	7.95	-4.58	-497.21	-859.59	0.08
Dead+Wind 90 deg - Service	69.93	10.35	0.00	-4.07	-1092.22	-0.29
Dead+Wind 120 deg - Service	69.93	8.92	5.14	545.29	-957.95	-0.53
Dead+Wind 150 deg - Service	69.93	4.83	8.35	885.98	-519.56	-0.43
Dead+Wind 180 deg - Service	69.93	0.00	10.22	1062.55	-4.17	-0.46
Dead+Wind 210 deg - Service	69.93	-4.97	8.59	883.70	510.47	-0.27
Dead+Wind 240 deg - Service	69.93	-7.95	4.58	487.72	852.60	-0.08
Dead+Wind 270 deg - Service	69.93	-10.35	-0.00	-5.42	1085.23	0.29
Dead+Wind 300 deg - Service	69.93	-8.92	-5.14	-554.78	950.96	0.53
Dead+Wind 330 deg - Service	69.93	-4.83	-8.35	-895.47	512.56	0.43

## Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.00	-69.93	0.00	-0.00	69.93	0.00	0.000%
2	-0.02	-83.91	-47.10	0.02	83.91	47.10	0.000%
3	-0.02	-62.93	-47.10	0.03	62.93	47.10	0.016%
4	22.88	-83.91	-39.56	-22.88	83.91	39.56	0.000%
5	22.88	-62.93	-39.56	-22.88	62.93	39.56	0.000%
6	36.63	-83.91	-21.09	-36.63	83.91	21.09	0.000%
7	36.63	-62.93	-21.09	-36.63	62.93	21.09	0.000%
8	47.69	-83.91	0.02	-47.69	83.91	-0.02	0.000%
9	47.69	-62.93	0.02	-47.69	62.93	-0.02	0.000%
10	41.10	-83.91	23.69	-41.10	83.91	-23.69	0.000%
11	41.10	-62.93	23.69	-41.10	62.93	-23.69	0.000%
12	22.26	-83.91	38.45	-22.26	83.91	-38.45	0.000%
13	22.26	-62.93	38.45	-22.26	62.93	-38.45	0.000%
14	0.02	-83.91	47.10	-0.02	83.91	-47.10	0.000%
15	0.02	-62.93	47.10	-0.02	62.93	-47.10	0.000%
16	-22.88	-83.91	39.56	22.88	83.91	-39.56	0.000%
17	-22.88	-62.93	39.56	22.88	62.93	-39.56	0.000%
18	-36.63	-83.91	21.09	36.63	83.91	-21.09	0.000%
19	-36.63	-62.93	21.09	36.63	62.93	-21.09	0.000%
20	-47.69	-83.91	-0.02	47.69	83.91	0.02	0.000%
21	-47.69	-62.93	-0.02	47.69	62.93	0.02	0.000%
22	-41.10	-83.91	-23.69	41.10	83.91	23.69	0.000%
23	-41.10	-62.93	-23.69	41.10	62.93	23.69	0.000%
24	-22.26	-83.91	-38.45	22.26	83.91	38.45	0.000%
25	-22.26	-62.93	-38.45	22.26	62.93	38.45	0.000%
26	0.00	-161.21	0.00	-0.00	161.21	0.00	0.000%
27	-0.00	-161.21	-11.75	0.00	161.21	11.75	0.000%
28	5.54	-161.21	-9.58	-5.54	161.21	9.58	0.000%

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
29	9.10	-161.21	-5.24	-9.10	161.21	5.24	0.000%
30	11.92	-161.21	0.00	-11.92	161.21	-0.00	0.000%
31	10.51	-161.21	6.06	-10.51	161.21	-6.06	0.000%
32	5.35	-161.21	9.24	-5.35	161.21	-9.24	0.000%
33	0.00	-161.21	11.75	-0.00	161.21	-11.75	0.000%
34	-5.54	-161.21	9.58	5.54	161.21	-9.58	0.000%
35	-9.10	-161.21	5.24	9.10	161.21	-5.24	0.000%
36	-11.92	-161.21	-0.00	11.92	161.21	0.00	0.000%
37	-10.51	-161.21	-6.06	10.51	161.21	6.06	0.000%
38	-5.35	-161.21	-9.24	5.35	161.21	9.24	0.000%
39	-0.00	-69.93	-10.22	0.00	69.93	10.22	0.000%
40	4.97	-69.93	-8.59	-4.97	69.93	8.59	0.000%
41	7.95	-69.93	-4.58	-7.95	69.93	4.58	0.000%
42	10.35	-69.93	0.00	-10.35	69.93	-0.00	0.000%
43	8.92	-69.93	5.14	-8.92	69.93	-5.14	0.000%
44	4.83	-69.93	8.35	-4.83	69.93	-8.35	0.000%
45	0.00	-69.93	10.22	-0.00	69.93	-10.22	0.000%
46	-4.97	-69.93	8.59	4.97	69.93	-8.59	0.000%
47	-7.95	-69.93	4.58	7.95	69.93	-4.58	0.000%
48	-10.35	-69.93	-0.00	10.35	69.93	0.00	0.000%
49	-8.92	-69.93	-5.14	8.92	69.93	5.14	0.000%
50	-4.83	-69.93	-8.35	4.83	69.93	8.35	0.000%

### Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000539
2	Yes	6	0.00000001	0.00007075
3	Yes	6	0.00000001	0.00004942
4	Yes	7	0.00000001	0.00008582
5	Yes	7	0.00000001	0.00002099
6	Yes	7	0.00000001	0.00008105
7	Yes	7	0.00000001	0.00001995
8	Yes	6	0.00000001	0.00005048
9	Yes	6	0.00000001	0.00001635
10	Yes	7	0.00000001	0.00009424
11	Yes	7	0.00000001	0.00002221
12	Yes	7	0.00000001	0.00008941
13	Yes	7	0.00000001	0.00002173
14	Yes	6	0.00000001	0.00007613
15	Yes	6	0.00000001	0.00002611
16	Yes	7	0.00000001	0.00008269
17	Yes	7	0.00000001	0.00002019
18	Yes	7	0.00000001	0.00008136
19	Yes	7	0.00000001	0.00002012
20	Yes	6	0.00000001	0.00005585
21	Yes	6	0.00000001	0.00001827
22	Yes	7	0.00000001	0.00009933
23	Yes	7	0.00000001	0.00002358
24	Yes	7	0.00000001	0.00008550
25	Yes	7	0.00000001	0.00002065
26	Yes	7	0.00000001	0.00001635
27	Yes	8	0.00000001	0.00009423
28	Yes	9	0.00000001	0.00001707
29	Yes	9	0.00000001	0.00001683
30	Yes	9	0.00000001	0.00001560
31	Yes	9	0.00000001	0.00001882
32	Yes	9	0.00000001	0.00001667
33	Yes	8	0.00000001	0.00009173
34	Yes	9	0.00000001	0.00001586
35	Yes	9	0.00000001	0.00001567
36	Yes	8	0.00000001	0.00009581
37	Yes	9	0.00000001	0.00001869
38	Yes	9	0.00000001	0.00001635
39	Yes	5	0.00000001	0.00009539

40	Yes	6	0.00000001	0.00001775
41	Yes	6	0.00000001	0.00001588
42	Yes	5	0.00000001	0.00008813
43	Yes	6	0.00000001	0.00001922
44	Yes	6	0.00000001	0.00001886
45	Yes	5	0.00000001	0.00009513
46	Yes	6	0.00000001	0.00001578
47	Yes	6	0.00000001	0.00001581
48	Yes	5	0.00000001	0.00008782
49	Yes	6	0.00000001	0.00002205
50	Yes	6	0.00000001	0.00001671

### Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	160.333 - 155.333	24.054	43	1.4236	0.0058
L2	155.333 - 150.333	22.564	43	1.4228	0.0057
L3	150.333 - 146.833	21.081	43	1.4054	0.0045
L4	146.833 - 146.333	20.060	43	1.3799	0.0037
L5	146.333 - 141.333	19.915	43	1.3782	0.0037
L6	141.333 - 136.333	18.489	43	1.3449	0.0031
L7	136.333 - 131.333	17.104	43	1.2974	0.0026
L8	131.333 - 126.333	15.776	43	1.2378	0.0022
L9	126.333 - 121.333	14.517	43	1.1649	0.0018
L10	121.333 - 120.083	13.341	43	1.0802	0.0015
L11	120.083 - 119.833	13.061	43	1.0577	0.0014
L12	119.833 - 117.5	13.005	43	1.0553	0.0014
L13	117.5 - 117.25	12.495	43	1.0321	0.0013
L14	117.25 - 115.5	12.441	43	1.0296	0.0013
L15	115.5 - 115.25	12.067	43	1.0123	0.0013
L16	115.25 - 110.25	12.014	43	1.0103	0.0013
L17	110.25 - 104.083	10.978	43	0.9686	0.0012
L18	107.82 - 102.82	10.491	43	0.9467	0.0011
L19	102.82 - 100.5	9.512	43	0.9178	0.0011
L20	100.5 - 100.25	9.071	43	0.8954	0.0010
L21	100.25 - 98.5	9.025	43	0.8928	0.0010
L22	98.5 - 98.25	8.701	43	0.8744	0.0010
L23	98.25 - 93.25	8.655	43	0.8718	0.0010
L24	93.25 - 90.5	7.770	43	0.8188	0.0009
L25	90.5 - 90.25	7.307	43	0.7884	0.0008
L26	90.25 - 85.25	7.266	43	0.7858	0.0008
L27	85.25 - 83.5	6.471	43	0.7324	0.0007
L28	83.5 - 83.25	6.206	43	0.7134	0.0007
L29	83.25 - 80.75	6.169	43	0.7113	0.0007
L30	80.75 - 80.5	5.802	43	0.6902	0.0006
L31	80.5 - 80.25	5.766	43	0.6884	0.0006
L32	80.25 - 77.5	5.730	43	0.6865	0.0006
L33	77.5 - 77.25	5.340	43	0.6647	0.0006
L34	77.25 - 68.82	5.306	43	0.6620	0.0006
L35	73.291 - 68.291	4.775	43	0.6190	0.0005
L36	68.291 - 64.25	4.141	43	0.5892	0.0005
L37	64.25 - 64	3.661	43	0.5453	0.0005
L38	64 - 60.5	3.632	43	0.5430	0.0005
L39	60.5 - 60.25	3.246	43	0.5101	0.0004
L40	60.25 - 60.083	3.219	43	0.5079	0.0004
L41	60.083 - 59.833	3.202	43	0.5064	0.0004

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L42	59.833 - 59.083	3.175	43	0.5043	0.0004
L43	59.083 - 58.833	3.097	43	0.4980	0.0004
L44	58.833 - 55.4167	3.071	43	0.4961	0.0004
L45	55.4167 - 55.1667	2.725	43	0.4687	0.0004
L46	55.1667 - 54.75	2.701	43	0.4667	0.0004
L47	54.75 - 54.5	2.660	43	0.4634	0.0004
L48	54.5 - 49.5	2.636	43	0.4610	0.0004
L49	49.5 - 44.5	2.179	43	0.4115	0.0003
L50	44.5 - 41.25	1.775	43	0.3616	0.0003
L51	41.25 - 41	1.540	43	0.3288	0.0002
L52	41 - 34.291	1.522	43	0.3265	0.0002
L53	39 - 33.291	1.389	43	0.3083	0.0002
L54	33.291 - 31.5	1.035	43	0.2820	0.0002
L55	31.5 - 31.25	0.931	43	0.2692	0.0002
L56	31.25 - 30.5	0.917	43	0.2674	0.0002
L57	30.5 - 30.25	0.876	43	0.2620	0.0002
L58	30.25 - 25.75	0.862	43	0.2602	0.0002
L59	25.75 - 25.5	0.633	43	0.2259	0.0002
L60	25.5 - 24.6667	0.621	43	0.2239	0.0002
L61	24.6667 - 24.4167	0.583	43	0.2172	0.0001
L62	24.4167 - 24	0.572	43	0.2150	0.0001
L63	24 - 23.75	0.553	43	0.2112	0.0001
L64	23.75 - 18.75	0.542	43	0.2092	0.0001
L65	18.75 - 14.083	0.344	43	0.1682	0.0001
L66	14.083 - 13.817	0.199	43	0.1300	0.0001
L67	13.817 - 13.667	0.192	43	0.1277	0.0001
L68	13.667 - 10.5	0.188	43	0.1265	0.0001
L69	10.5 - 10.25	0.112	43	0.0998	0.0001
L70	10.25 - 5.25	0.107	43	0.0976	0.0001
L71	5.25 - 2.9	0.029	43	0.0526	0.0000
L72	2.9 - 2.65	0.009	43	0.0284	0.0000
L73	2.65 - 2.5	0.007	43	0.0258	0.0000
L74	2.5 - 2.25	0.006	43	0.0243	0.0000
L75	2.25 - 1.917	0.005	43	0.0221	0.0000
L76	1.917 - 1.667	0.004	43	0.0191	0.0000
L77	1.667 - 0	0.003	43	0.0166	0.0000

### Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
156.00	SBNH-1D6565C w/ Mount Pipe	43	22.762	1.4234	0.0058	37363
146.00	5' x 2" Pipe Mount	43	19.819	1.3769	0.0037	8900
139.00	APXV18-206517S-C	43	17.836	1.3239	0.0029	6082
132.00	BXA-80080-6CF-EDIN-X w/ Mount Pipe	43	15.949	1.2467	0.0022	4434
114.00	MX08FRO665-21 w/ Mount Pipe	43	11.751	1.0006	0.0013	6449
101.00	58532A	43	9.165	0.9006	0.0010	6027

### Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	160.333 - 155.333	111.325	10	6.5872	0.0262
L2	155.333 - 150.333	104.453	10	6.5839	0.0255
L3	150.333 -	97.616	10	6.5067	0.0204

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L4	146.833 - 146.333	92.903	10	6.3915	0.0168
L5	146.333 - 141.333	92.237	10	6.3836	0.0166
L6	141.333 - 136.333	85.648	10	6.2314	0.0140
L7	136.333 - 131.333	79.253	10	6.0135	0.0118
L8	131.333 - 126.333	73.114	10	5.7390	0.0098
L9	126.333 - 121.333	67.291	10	5.4027	0.0080
L10	121.333 - 120.083	61.847	10	5.0114	0.0066
L11	120.083 - 119.833	60.551	10	4.9077	0.0064
L12	119.833 - 117.5	60.295	10	4.8965	0.0063
L13	117.5 - 117.25	57.933	10	4.7891	0.0061
L14	117.25 - 115.5	57.683	10	4.7777	0.0060
L15	115.5 - 115.25	55.950	10	4.6974	0.0058
L16	115.25 - 110.25	55.705	10	4.6883	0.0058
L17	110.25 - 104.083	50.904	10	4.4950	0.0054
L18	107.82 - 102.82	48.646	10	4.3936	0.0051
L19	102.82 - 100.5	44.111	10	4.2595	0.0048
L20	100.5 - 100.25	42.070	10	4.1560	0.0046
L21	100.25 - 98.5	41.853	10	4.1440	0.0046
L22	98.5 - 98.25	40.352	10	4.0583	0.0044
L23	98.25 - 93.25	40.140	10	4.0465	0.0044
L24	93.25 - 90.5	36.036	10	3.8004	0.0039
L25	90.5 - 90.25	33.891	10	3.6592	0.0037
L26	90.25 - 85.25	33.700	10	3.6472	0.0036
L27	85.25 - 83.5	30.014	10	3.3993	0.0032
L28	83.5 - 83.25	28.785	10	3.3112	0.0031
L29	83.25 - 80.75	28.612	10	3.3017	0.0031
L30	80.75 - 80.5	26.911	10	3.2036	0.0029
L31	80.5 - 80.25	26.743	10	3.1952	0.0029
L32	80.25 - 77.5	26.576	10	3.1862	0.0029
L33	77.5 - 77.25	24.772	10	3.0853	0.0028
L34	77.25 - 68.82	24.611	10	3.0727	0.0028
L35	73.291 - 68.291	22.148	10	2.8728	0.0025
L36	68.291 - 64.25	19.207	10	2.7345	0.0023
L37	64.25 - 64	16.980	10	2.5307	0.0021
L38	64 - 60.5	16.848	10	2.5200	0.0021
L39	60.5 - 60.25	15.058	10	2.3672	0.0019
L40	60.25 - 60.083	14.934	10	2.3570	0.0019
L41	60.083 - 59.833	14.852	10	2.3502	0.0019
L42	59.833 - 59.083	14.729	10	2.3405	0.0019
L43	59.083 - 58.833	14.364	10	2.3114	0.0018
L44	58.833 - 55.4167	14.243	10	2.3024	0.0018
L45	55.4167 - 55.1667	12.642	10	2.1753	0.0017
L46	55.1667 - 54.75	12.528	10	2.1661	0.0017
L47	54.75 - 54.5	12.340	10	2.1506	0.0017
L48	54.5 - 49.5	12.228	10	2.1393	0.0016
L49	49.5 - 44.5	10.108	10	1.9096	0.0014
L50	44.5 - 41.25	8.231	10	1.6776	0.0012
L51	41.25 - 41	7.141	10	1.5254	0.0011
L52	41 - 34.291	7.061	10	1.5149	0.0011
L53	39 - 33.291	6.445	10	1.4304	0.0010
L54	33.291 - 31.5	4.800	10	1.3084	0.0009
L55	31.5 - 31.25	4.320	10	1.2489	0.0009
L56	31.25 - 30.5	4.255	10	1.2406	0.0008
L57	30.5 - 30.25	4.062	10	1.2156	0.0008
L58	30.25 - 25.75	3.999	10	1.2069	0.0008
L59	25.75 - 25.5	2.937	10	1.0478	0.0007
L60	25.5 - 24.6667	2.882	10	1.0384	0.0007
L61	24.6667 - 24.4167	2.703	10	1.0074	0.0007

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L62	24.4167 - 24	2.651	10	0.9971	0.0007
L63	24 - 23.75	2.565	10	0.9798	0.0007
L64	23.75 - 18.75	2.514	10	0.9704	0.0006
L65	18.75 - 14.083	1.597	10	0.7803	0.0005
L66	14.083 - 13.817	0.921	10	0.6027	0.0004
L67	13.817 - 13.667	0.888	10	0.5924	0.0004
L68	13.667 - 10.5	0.870	10	0.5866	0.0004
L69	10.5 - 10.25	0.521	10	0.4630	0.0003
L70	10.25 - 5.25	0.498	10	0.4528	0.0003
L71	5.25 - 2.9	0.133	10	0.2441	0.0002
L72	2.9 - 2.65	0.040	10	0.1316	0.0001
L73	2.65 - 2.5	0.034	10	0.1197	0.0001
L74	2.5 - 2.25	0.030	10	0.1126	0.0001
L75	2.25 - 1.917	0.024	10	0.1023	0.0001
L76	1.917 - 1.667	0.018	10	0.0886	0.0001
L77	1.667 - 0	0.013	10	0.0771	0.0000

### Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
156.00	SBNH-1D6565C w/ Mount Pipe	10	105.369	6.5862	0.0260	8840
146.00	5' x 2" Pipe Mount	10	91.794	6.3780	0.0164	2006
139.00	APXV18-206517S-C	10	82.636	6.1353	0.0129	1356
132.00	BXA-80080-6CF-EDIN-X w/ Mount Pipe	10	73.916	5.7797	0.0101	983
114.00	MX08FRO665-21 w/ Mount Pipe	10	54.486	4.6433	0.0058	1413
101.00	58532A	10	42.506	4.1801	0.0047	1315

### Compression Checks

### Pole Design Data

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	KI/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio P <sub>u</sub> / φP <sub>n</sub>
L1	160.333 - 155.333 (1)	TP16x16x0.375	5.00	0.00	0.0	18.407 8	-4.23	579.85	0.007
L2	155.333 - 150.333 (2)	TP16x16x0.375	5.00	0.00	0.0	18.407 8	-4.66	579.85	0.008
L3	150.333 - 146.833 (3)	TP16x16x0.375	3.50	0.00	0.0	18.407 8	-4.98	579.85	0.009
L4	146.833 - 146.333 (4)	TP22x22x0.375	0.50	0.00	0.0	25.476 4	-5.04	802.51	0.006
L5	146.333 - 141.333 (5)	TP22.924x22x0.25	5.00	0.00	0.0	18.252 6	-9.97	985.64	0.010
L6	141.333 - 136.333 (6)	TP23.848x22.924x0.25	5.00	0.00	0.0	18.996 4	-10.78	1025.81	0.011
L7	136.333 - 131.333 (7)	TP24.7721x23.848x0.25	5.00	0.00	0.0	19.740 3	-15.45	1065.97	0.014
L8	131.333 - 126.333 (8)	TP25.6961x24.7721x0.25	5.00	0.00	0.0	20.484 1	-16.28	1106.14	0.015
L9	126.333 - 121.333 (9)	TP26.6201x25.6961x0.25	5.00	0.00	0.0	21.227 9	-17.15	1146.31	0.015
L10	121.333 - 120.083 (10)	TP26.8511x26.6201x0.25	1.25	0.00	0.0	21.413 9	-17.37	1156.35	0.015
L11	120.083 - 119.833 (11)	TP26.8973x26.8511x0.48 75	0.25	0.00	0.0	41.456 8	-17.45	2238.67	0.008
L12	119.833 -	TP27.3285x26.8973x0.48	2.33	0.00	0.0	42.133	-18.00	2275.22	0.008

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio P <sub>u</sub> / φP <sub>n</sub>
L13	117.5 (12)	75				6			
	117.5 - 117.25 (13)	TP27.3747x27.3285x0.5	0.25	0.00	0.0	43.268	-18.08	2336.48	0.008
L14	117.25 (13)	TP27.6981x27.3747x0.5	1.75	0.00	0.0	43.788	-18.52	2364.60	0.008
	115.5 (14)					9			
L15	115.5 - 115.25 (15)	TP27.7443x27.6981x0.66	0.25	0.00	0.0	57.772	-18.61	3119.70	0.006
L16	115.25 (15)	TP28.6683x27.7443x0.65	5.00	0.00	0.0	58.642	-23.06	3166.69	0.007
	110.25 (16)					3			
L17	110.25 - 104.083 (17)	TP29.808x28.6683x0.637	6.17	0.00	0.0	58.462	-23.80	3156.95	0.008
L18	104.083 (17)	TP29.5407x28.6174x0.7	5.00	0.00	0.0	65.006	-26.26	3510.37	0.007
	102.82 (18)					9			
L19	102.82 - 100.5 (19)	TP29.9691x29.5407x0.68	2.32	0.00	0.0	64.822	-27.12	3500.39	0.008
L20	100.5 (19)	TP30.0152x29.9691x0.63	0.25	0.00	0.0	60.305	-27.21	3256.48	0.008
	100.25 (20)					1			
L21	100.25 - 98.5 (21)	TP30.3384x30.0152x0.62	1.75	0.00	0.0	59.798	-27.77	3229.10	0.009
L22	98.5 - 98.25 (22)	TP30.3846x30.3384x0.66	0.25	0.00	0.0	63.404	-27.88	3423.85	0.008
	98.25 - 93.25 (23)	TP31.3078x30.3846x0.65	5.00	0.00	0.0	64.166	-29.61	3465.01	0.009
L24	93.25 - 90.5 (24)	TP31.8156x31.3078x0.63	2.75	0.00	0.0	64.000	-30.58	3456.05	0.009
L25	90.5 - 90.25 (25)	TP31.8618x31.8156x0.68	0.25	0.00	0.0	69.012	-30.69	3726.65	0.008
L26	90.25 - 85.25 (26)	TP32.7851x31.8618x0.67	5.00	0.00	0.0	69.791	-32.65	3768.73	0.009
L27	85.25 - 83.5 (27)	TP33.1082x32.7851x0.66	1.75	0.00	0.0	69.214	-33.33	3737.60	0.009
L28	83.5 - 83.25 (28)	TP33.1544x33.1082x0.91	0.25	0.00	0.0	94.734	-33.47	5115.68	0.007
L29	83.25 - 80.75 (29)	TP33.616x33.1544x0.887	2.50	0.00	0.0	93.530	-34.63	5050.62	0.007
L30	80.75 - 80.5 (30)	TP33.6622x33.616x1.062	0.25	0.00	0.0	111.53	-34.77	6022.71	0.006
L31	80.5 - 80.25 (31)	TP33.7084x33.6622x0.97	0.25	0.00	0.0	102.76	-34.89	5549.39	0.006
L32	80.25 - 77.5 (32)	TP34.2162x33.7084x0.96	2.75	0.00	0.0	103.06	-36.21	5565.32	0.007
L33	77.5 - 77.25 (33)	TP34.2623x34.2162x0.68	0.25	0.00	0.0	74.326	-36.33	4013.62	0.009
L34	77.25 - 68.82 (34)	TP35.819x34.2623x0.687	8.43	0.00	0.0	75.944	-38.05	4101.01	0.009
L35	68.82 - 68.291 (35)	TP35.2914x34.3684x0.75	5.00	0.00	0.0	83.417	-41.91	4504.55	0.009
L36	68.291 - 64.25 (36)	TP36.0374x35.2914x0.73	4.04	0.00	0.0	83.828	-43.82	4526.74	0.010
L37	64.25 - 64 (37)	TP36.0836x36.0374x0.87	0.25	0.00	0.0	99.200	-43.96	5356.81	0.008
L38	64 - 60.5 (38)	TP36.7297x36.0836x0.86	3.50	0.00	0.0	99.612	-45.73	5379.06	0.009
L39	60.5 - 60.25 (39)	TP36.7758x36.7297x0.92	0.25	0.00	0.0	106.78	-45.87	5766.21	0.008
L40	60.25 - 60.083 (40)	TP36.8067x36.7758x0.92	0.17	0.00	0.0	106.87	-45.96	5771.17	0.008
L41	60.083 - 59.833 (41)	TP36.8528x36.8067x0.97	0.25	0.00	0.0	112.63	-46.10	6082.47	0.008
L42	59.833 - 59.083 (42)	TP36.9913x36.8528x0.97	0.75	0.00	0.0	113.07	-46.51	6105.95	0.008
L43	59.083 - 58.833 (43)	TP37.0374x36.9913x1.05	0.25	0.00	0.0	121.67	-46.66	6570.37	0.007
L44	58.833 - 55.4167 (44)	TP37.6681x37.0374x1.02	3.42	0.00	0.0	120.94	-48.65	6530.79	0.007
L45	55.4167 - 55.1667 (45)	TP37.7142x37.6681x1.02	0.25	0.00	0.0	121.09	-48.81	6539.01	0.007
L46	55.1667 - 54.75 (46)	TP37.7912x37.7142x1.02	0.42	0.00	0.0	121.34	-49.06	6552.72	0.007

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio P <sub>u</sub> / φP <sub>n</sub>
L47	54.75 - 54.5 (47)	TP37.8373x37.7912x0.82 5	0.25	0.00	0.0	98.323 2	-49.19	5309.45	0.009
L48	54.5 - 49.5 (48)	TP38.7603x37.8373x0.81 25	5.00	0.00	0.0	99.281 0	-51.80	5361.18	0.010
L49	49.5 - 44.5 (49)	TP39.6834x38.7603x0.8	5.00	0.00	0.0	100.16 40	-54.45	5408.83	0.010
L50	44.5 - 41.25 (50)	TP40.2833x39.6834x0.78 75	3.25	0.00	0.0	100.15 20	-56.19	5408.18	0.010
L51	41.25 - 41 (51)	TP40.3295x40.2833x0.87 5	0.25	0.00	0.0	111.16 30	-56.35	6002.80	0.009
L52	41 - 34.291 (52)	TP41.568x40.3295x0.875	6.71	0.00	0.0	112.20 30	-57.50	6058.98	0.009
L53	34.291 - 33.291 (53)	TP40.9955x39.9487x1.17 5	5.71	0.00	0.0	150.66 10	-63.56	8813.67	0.007
L54	33.291 - 31.5 (54)	TP41.3239x40.9955x1.17 5	1.79	0.00	0.0	151.90 40	-64.77	8886.36	0.007
L55	31.5 - 31.25 (55)	TP41.3698x41.3239x1.17 5	0.25	0.00	0.0	152.07 70	-64.96	8896.50	0.007
L56	31.25 - 30.5 (56)	TP41.5073x41.3698x1.17 5	0.75	0.00	0.0	152.59 70	-65.47	8926.94	0.007
L57	30.5 - 30.25 (57)	TP41.5532x41.5073x1.12 5	0.25	0.00	0.0	146.45 10	-65.64	8567.38	0.008
L58	30.25 - 25.75 (58)	TP42.3783x41.5532x1.1	4.50	0.00	0.0	146.20 80	-68.66	8553.15	0.008
L59	25.75 - 25.5 (59)	TP42.4241x42.3783x1.02 5	0.25	0.00	0.0	136.63 80	-68.84	7993.32	0.009
L60	25.5 - 24.6667 (60)	TP42.5769x42.4241x1.02 5	0.83	0.00	0.0	137.14 20	-69.38	8022.82	0.009
L61	24.6667 - 24.4167 (61)	TP42.6228x42.5769x0.92 5	0.25	0.00	0.0	124.19 70	-69.53	7265.52	0.010
L62	24.4167 - 24 (62)	TP42.6992x42.6228x0.91 25	0.42	0.00	0.0	122.78 00	-69.77	7182.62	0.010
L63	24 - 23.75 (63)	TP42.745x42.6992x1.025	0.25	0.00	0.0	137.69 70	-69.92	8055.27	0.009
L64	23.75 - 18.75 (64)	TP43.6619x42.745x1	5.00	0.00	0.0	137.37 10	-72.92	8036.22	0.009
L65	18.75 - 14.083 (65)	TP44.5176x43.6619x0.98 75	4.67	0.00	0.0	138.41 50	-75.76	8097.28	0.009
L66	14.083 - 13.817 (66)	TP44.5664x44.5176x0.96 25	0.27	0.00	0.0	135.13 90	-75.94	7905.66	0.010
L67	13.817 - 13.667 (67)	TP44.5939x44.5664x0.96 25	0.15	0.00	0.0	135.22 50	-76.04	7910.65	0.010
L68	13.667 - 10.5 (68)	TP45.1746x44.5939x0.95	3.17	0.00	0.0	135.28 30	-78.00	7914.07	0.010
L69	10.5 - 10.25 (69)	TP45.2205x45.1746x0.9	0.25	0.00	0.0	128.44 10	-78.17	7513.79	0.010
L70	10.25 - 5.25 (70)	TP46.1373x45.2205x0.87 5	5.00	0.00	0.0	127.52 70	-81.19	7460.31	0.011
L71	5.25 - 2.9 (71)	TP46.5682x46.1373x0.75	2.35	0.00	0.0	110.65 10	-82.39	6473.09	0.013
L72	2.9 - 2.65 (72)	TP46.6141x46.5682x0.75	0.25	0.00	0.0	110.76 20	-82.53	6479.56	0.013
L73	2.65 - 2.5 (73)	TP46.6416x46.6141x0.75	0.15	0.00	0.0	110.82 80	-82.61	6483.45	0.013
L74	2.5 - 2.25 (74)	TP46.6874x46.6416x0.87 5	0.25	0.00	0.0	129.07 70	-82.75	7550.98	0.011
L75	2.25 - 1.917 (75)	TP46.7485x46.6874x0.87 5	0.33	0.00	0.0	129.24 90	-82.93	7561.04	0.011
L76	1.917 - 1.667 (76)	TP46.7943x46.7485x0.77 5	0.25	0.00	0.0	114.84 10	-83.05	6718.21	0.012
L77	1.667 - 0 (77)	TP47.1x46.7943x0.7625	1.67	0.00	0.0	113.77 00	-83.88	6655.55	0.013



### Pole Bending Design Data

Section No.	Elevation ft	Size	$M_{ux}$	$\phi M_{nx}$	Ratio	$M_{uy}$	$\phi M_{ny}$	Ratio
			kip-ft	kip-ft	$\frac{M_{ux}}{\phi M_{nx}}$	kip-ft	kip-ft	$\frac{M_{uy}}{\phi M_{ny}}$
L1	160.333 - 155.333 (1)	TP16x16x0.375	11.06	240.37	0.046	0.00	240.37	0.000
L2	155.333 - 150.333 (2)	TP16x16x0.375	50.45	240.37	0.210	0.00	240.37	0.000
L3	150.333 - 146.833 (3)	TP16x16x0.375	79.93	240.37	0.333	0.00	240.37	0.000
L4	146.833 - 146.333 (4)	TP22x22x0.375	84.27	460.38	0.183	0.00	460.38	0.000
L5	146.333 - 141.333 (5)	TP22.924x22x0.25	157.52	561.22	0.281	0.00	561.22	0.000
L6	141.333 - 136.333 (6)	TP23.848x22.924x0.25	235.00	600.30	0.391	0.00	600.30	0.000
L7	136.333 - 131.333 (7)	TP24.7721x23.848x0.25	325.06	640.00	0.508	0.00	640.00	0.000
L8	131.333 - 126.333 (8)	TP25.6961x24.7721x0.25	437.51	680.25	0.643	0.00	680.25	0.000
L9	126.333 - 121.333 (9)	TP26.6201x25.6961x0.25	554.15	720.98	0.769	0.00	720.98	0.000
L10	121.333 - 120.083 (10)	TP26.8511x26.6201x0.25	583.97	731.23	0.799	0.00	731.23	0.000
L11	120.083 - 119.833 (11)	TP26.8973x26.8511x0.4875	589.97	1501.96	0.393	0.00	1501.96	0.000
L12	119.833 - 117.5 (12)	TP27.3285x26.8973x0.4875	646.37	1551.85	0.417	0.00	1551.85	0.000
L13	117.5 - 117.25 (13)	TP27.3747x27.3285x0.5	652.46	1594.94	0.409	0.00	1594.94	0.000
L14	117.25 - 115.5 (14)	TP27.6981x27.3747x0.5	695.37	1633.92	0.426	0.00	1633.92	0.000
L15	115.5 - 115.25 (15)	TP27.7443x27.6981x0.6625	701.54	2133.73	0.329	0.00	2133.73	0.000
L16	115.25 - 110.25 (16)	TP28.6683x27.7443x0.65	840.59	2243.53	0.375	0.00	2243.53	0.000
L17	110.25 - 104.083 (17)	TP29.808x28.6683x0.6375	911.79	2275.29	0.401	0.00	2275.29	0.000
L18	104.083 - 102.82 (18)	TP29.5407x28.6174x0.7	1061.48	2557.34	0.415	0.00	2557.34	0.000
L19	102.82 - 100.5 (19)	TP29.9691x29.5407x0.6875	1132.41	2591.06	0.437	0.00	2591.06	0.000
L20	100.5 - 100.25 (20)	TP30.0152x29.9691x0.6375	1140.12	2422.64	0.471	0.00	2422.64	0.000
L21	100.25 - 98.5 (21)	TP30.3384x30.0152x0.625	1194.34	2431.30	0.491	0.00	2431.30	0.000
L22	98.5 - 98.25 (22)	TP30.3846x30.3384x0.6625	1202.13	2575.52	0.467	0.00	2575.52	0.000
L23	98.25 - 93.25 (23)	TP31.3078x30.3846x0.65	1359.78	2691.41	0.505	0.00	2691.41	0.000
L24	93.25 - 90.5 (24)	TP31.8156x31.3078x0.6375	1448.07	2732.03	0.530	0.00	2732.03	0.000
L25	90.5 - 90.25 (25)	TP31.8618x31.8156x0.6875	1456.15	2940.95	0.495	0.00	2940.95	0.000
L26	90.25 - 85.25 (26)	TP32.7851x31.8618x0.675	1619.73	3066.53	0.528	0.00	3066.53	0.000
L27	85.25 - 83.5 (27)	TP33.1082x32.7851x0.6625	1677.94	3074.81	0.546	0.00	3074.81	0.000
L28	83.5 - 83.25 (28)	TP33.1544x33.1082x0.9125	1686.31	4150.01	0.406	0.00	4150.01	0.000
L29	83.25 - 80.75 (29)	TP33.616x33.1544x0.8875	1770.54	4163.87	0.425	0.00	4163.87	0.000
L30	80.75 - 80.5 (30)	TP33.6622x33.616x1.0625	1779.02	4919.52	0.362	0.00	4919.52	0.000
L31	80.5 - 80.25 (31)	TP33.7084x33.6622x0.975	1787.51	4563.88	0.392	0.00	4563.88	0.000
L32	80.25 - 77.5 (32)	TP34.2162x33.7084x0.9625	1882.23	4653.54	0.404	0.00	4653.54	0.000
L33	77.5 - 77.25 (33)	TP34.2623x34.2162x0.6875	1891.02	3416.59	0.553	0.00	3416.59	0.000

Section No.	Elevation ft	Size	$M_{ux}$ kip-ft	$\phi M_{nx}$ kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	$M_{uy}$ kip-ft	$\phi M_{ny}$ kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L34	77.25 - 68.82 (34)	TP35.819x34.2623x0.687 5	2031.76	3568.52	0.569	0.00	3568.52	0.000
L35	68.82 - 68.291 (35)	TP35.2914x34.3684x0.75	2214.38	3940.11	0.562	0.00	3940.11	0.000
L36	68.291 - 64.25 (36)	TP36.0374x35.2914x0.73 75	2365.82	4049.72	0.584	0.00	4049.72	0.000
L37	64.25 - 64 (37)	TP36.0836x36.0374x0.87 5	2375.29	4761.44	0.499	0.00	4761.44	0.000
L38	64 - 60.5 (38)	TP36.7297x36.0836x0.86 25	2508.90	4874.48	0.515	0.00	4874.48	0.000
L39	60.5 - 60.25 (39)	TP36.7758x36.7297x0.92 5	2518.52	5214.02	0.483	0.00	5214.02	0.000
L40	60.25 - 60.083 (40)	TP36.8067x36.7758x0.92 5	2524.95	5223.10	0.483	0.00	5223.10	0.000
L41	60.083 - 59.833 (41)	TP36.8528x36.8067x0.97 5	2534.58	5496.77	0.461	0.00	5496.77	0.000
L42	59.833 - 59.083 (42)	TP36.9913x36.8528x0.97 5	2563.53	5539.83	0.463	0.00	5539.83	0.000
L43	59.083 - 58.833 (43)	TP37.0374x36.9913x1.05	2573.21	5944.23	0.433	0.00	5944.23	0.000
L44	58.833 - 55.4167 (44)	TP37.6681x37.0374x1.02 5	2706.28	6023.12	0.449	0.00	6023.12	0.000
L45	55.4167 - 55.1667 (45)	TP37.7142x37.6681x1.02 5	2716.09	6038.51	0.450	0.00	6038.51	0.000
L46	55.1667 - 54.75 (46)	TP37.7912x37.7142x1.02 5	2732.46	6064.20	0.451	0.00	6064.20	0.000
L47	54.75 - 54.5 (47)	TP37.8373x37.7912x0.82 5	2742.28	4973.56	0.551	0.00	4973.56	0.000
L48	54.5 - 49.5 (48)	TP38.7603x37.8373x0.81 25	2940.67	5153.38	0.571	0.00	5153.38	0.000
L49	49.5 - 44.5 (49)	TP39.6834x38.7603x0.8	3142.38	5331.73	0.589	0.00	5331.73	0.000
L50	44.5 - 41.25 (50)	TP40.2833x39.6834x0.78 75	3275.28	5418.44	0.604	0.00	5418.44	0.000
L51	41.25 - 41 (51)	TP40.3295x40.2833x0.87 5	3285.57	5994.73	0.548	0.00	5994.73	0.000
L52	41 - 34.291 (52)	TP41.568x40.3295x0.875	3368.13	6108.68	0.551	0.00	6108.68	0.000
L53	34.291 - 33.291 (53)	TP40.9955x39.9487x1.17 5	3607.43	8820.25	0.409	0.00	8820.25	0.000
L54	33.291 - 31.5 (54)	TP41.3239x40.9955x1.17 5	3683.55	8968.42	0.411	0.00	8968.42	0.000
L55	31.5 - 31.25 (55)	TP41.3698x41.3239x1.17 5	3694.21	8989.17	0.411	0.00	8989.17	0.000
L56	31.25 - 30.5 (56)	TP41.5073x41.3698x1.17 5	3726.24	9051.67	0.412	0.00	9051.67	0.000
L57	30.5 - 30.25 (57)	TP41.5532x41.5073x1.12 5	3736.93	8718.83	0.429	0.00	8718.83	0.000
L58	30.25 - 25.75 (58)	TP42.3783x41.5532x1.1	3931.37	8897.58	0.442	0.00	8897.58	0.000
L59	25.75 - 25.5 (59)	TP42.4241x42.3783x1.02 5	3942.28	8354.92	0.472	0.00	8354.92	0.000
L60	25.5 - 24.6667 (60)	TP42.5769x42.4241x1.02 5	3978.73	8417.42	0.473	0.00	8417.42	0.000
L61	24.6667 - 24.4167 (61)	TP42.6228x42.5769x0.92 5	3989.69	7668.25	0.520	0.00	7668.25	0.000
L62	24.4167 - 24 (62)	TP42.6992x42.6228x0.91 25	4007.99	7599.49	0.527	0.00	7599.49	0.000
L63	24 - 23.75 (63)	TP42.745x42.6992x1.025	4018.98	8486.50	0.474	0.00	8486.50	0.000
L64	23.75 - 18.75 (64)	TP43.6619x42.745x1	4241.21	8667.08	0.489	0.00	8667.08	0.000
L65	18.75 - 14.083 (65)	TP44.5176x43.6619x0.98 75	4452.52	8917.25	0.499	0.00	8917.25	0.000
L66	14.083 - 13.817 (66)	TP44.5664x44.5176x0.96 25	4464.67	8726.25	0.512	0.00	8726.25	0.000
L67	13.817 - 13.667 (67)	TP44.5939x44.5664x0.96 25	4471.52	8737.33	0.512	0.00	8737.33	0.000
L68	13.667 - 10.5	TP45.1746x44.5939x0.95	4617.14	8865.00	0.521	0.00	8865.00	0.000

Section No.	Elevation ft	Size	$M_{ux}$ kip-ft	$\phi M_{nx}$ kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	$M_{uy}$ kip-ft	$\phi M_{ny}$ kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L69	(68) 10.5 - 10.25	TP45.2205x45.1746x0.9	4628.70	8444.58	0.548	0.00	8444.58	0.000
L70	(69) 10.25 - 5.25	TP46.1373x45.2205x0.87	4861.93	8570.83	0.567	0.00	8570.83	0.000
L71	(70) 5.25 - 2.9	TP46.5682x46.1373x0.75	4972.69	7549.94	0.659	0.00	7549.94	0.000
L72	(71) 2.9 - 2.65	TP46.6141x46.5682x0.75	4984.50	7565.18	0.659	0.00	7565.18	0.000
L73	(72) 2.65 - 2.5	TP46.6416x46.6141x0.75	4991.58	7574.33	0.659	0.00	7574.33	0.000
L74	(73) 2.5 - 2.25	TP46.6874x46.6416x0.87	5003.40	8782.42	0.570	0.00	8782.42	0.000
L75	(74) 2.25 - 1.917	TP46.7485x46.6874x0.87	5019.15	8806.08	0.570	0.00	8806.08	0.000
L76	(75) 1.917 - 1.667	TP46.7943x46.7485x0.77	5030.98	7866.59	0.640	0.00	7866.59	0.000
L77	(76) 1.667 - 0	TP47.1x46.7943x0.7625	5109.98	7850.07	0.651	0.00	7850.07	0.000

### Pole Shear Design Data

Section No.	Elevation ft	Size	Actual $V_u$ K	$\phi V_n$ K	Ratio $\frac{V_u}{\phi V_n}$	Actual $T_u$ kip-ft	$\phi T_n$ kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	160.333 - 155.333 (1)	TP16x16x0.375	7.54	173.95	0.043	1.11	238.96	0.005
L2	155.333 - 150.333 (2)	TP16x16x0.375	8.19	173.95	0.047	1.21	238.96	0.005
L3	150.333 - 146.833 (3)	TP16x16x0.375	8.64	173.95	0.050	1.29	238.96	0.005
L4	146.833 - 146.333 (4)	TP22x22x0.375	8.72	240.75	0.036	1.30	457.73	0.003
L5	146.333 - 141.333 (5)	TP22.924x22x0.25	14.77	295.69	0.050	1.43	589.75	0.002
L6	141.333 - 136.333 (6)	TP23.848x22.924x0.25	16.16	307.74	0.053	1.56	638.80	0.002
L7	136.333 - 131.333 (7)	TP24.7721x23.848x0.25	22.06	319.79	0.069	0.78	689.80	0.001
L8	131.333 - 126.333 (8)	TP25.6961x24.7721x0.25	22.91	331.84	0.069	0.50	742.77	0.001
L9	126.333 - 121.333 (9)	TP26.6201x25.6961x0.25	23.75	343.89	0.069	0.59	797.69	0.001
L10	121.333 - 120.083 (10)	TP26.8511x26.6201x0.25	23.96	346.90	0.069	0.61	811.73	0.001
L11	120.083 - 119.833 (11)	TP26.8973x26.8511x0.48	23.99	671.60	0.036	0.61	1560.18	0.000
L12	119.833 - 117.5 (12)	TP27.3285x26.8973x0.48	24.34	682.57	0.036	0.61	1611.54	0.000
L13	117.5 - 117.25 (13)	TP27.3747x27.3285x0.5	24.38	700.95	0.035	0.61	1657.02	0.000
L14	117.25 - 115.5 (14)	TP27.6981x27.3747x0.5	24.65	709.38	0.035	0.61	1697.14	0.000
L15	115.5 - 115.25 (15)	TP27.7443x27.6981x0.66	24.68	935.91	0.026	0.61	2229.52	0.000
L16	115.25 - 110.25 (16)	TP28.6683x27.7443x0.65	29.10	950.01	0.031	0.86	2341.36	0.000
L17	110.25 - 104.083 (17)	TP29.808x28.6683x0.637	29.48	947.09	0.031	0.86	2372.62	0.000
L18	104.083 - 102.82 (18)	TP29.5407x28.6174x0.7	30.36	1053.11	0.029	0.86	2671.65	0.000
L19	102.82 - 100.5 (19)	TP29.9691x29.5407x0.68	30.81	1050.12	0.029	1.12	2704.78	0.000
L20	100.5 - 100.25 (20)	TP30.0152x29.9691x0.63	30.84	976.94	0.032	1.12	2524.57	0.000
L21	100.25 - 98.5 (21)	TP30.3384x30.0152x0.62	31.12	968.73	0.032	1.12	2531.95	0.000
L22	98.5 - 98.25 (22)	TP30.3846x30.3384x0.66	31.14	1027.15	0.030	1.12	2685.43	0.000

Section No.	Elevation ft	Size	Actual $V_u$ K	$\phi V_n$ K	Ratio $\frac{V_u}{\phi V_n}$	Actual $T_u$ kip-ft	$\phi T_n$ kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L23	98.25 - 93.25 (23)	TP31.3078x30.3846x0.65	31.90	1039.50	0.031	1.11	2803.28	0.000
L24	93.25 - 90.5 (24)	TP31.8156x31.3078x0.63 75	32.31	1036.82	0.031	1.11	2843.49	0.000
L25	90.5 - 90.25 (25)	TP31.8618x31.8156x0.68 75	32.33	1118.00	0.029	1.11	3065.75	0.000
L26	90.25 - 85.25 (26)	TP32.7851x31.8618x0.67 5	33.08	1130.62	0.029	1.11	3193.43	0.000
L27	85.25 - 83.5 (27)	TP33.1082x32.7851x0.66 25	33.44	1121.28	0.030	1.13	3200.16	0.000
L28	83.5 - 83.25 (28)	TP33.1544x33.1082x0.91 25	33.47	1534.70	0.022	1.13	4352.56	0.000
L29	83.25 - 80.75 (29)	TP33.616x33.1544x0.887 5	33.89	1515.19	0.022	1.13	4362.07	0.000
L30	80.75 - 80.5 (30)	TP33.6622x33.616x1.062 5	33.92	1806.81	0.019	1.13	5181.16	0.000
L31	80.5 - 80.25 (31)	TP33.7084x33.6622x0.97 5	33.97	1664.82	0.020	1.13	4793.54	0.000
L32	80.25 - 77.5 (32)	TP34.2162x33.7084x0.96 25	35.13	1669.60	0.021	2.05	4883.73	0.000
L33	77.5 - 77.25 (33)	TP34.2623x34.2162x0.68 75	35.17	1204.09	0.029	2.05	3556.07	0.001
L34	77.25 - 68.82 (34)	TP35.819x34.2623x0.687 5	35.96	1230.30	0.029	2.09	3712.63	0.001
L35	68.82 - 68.291 (35)	TP35.2914x34.3684x0.75	37.10	1351.36	0.027	2.15	4105.94	0.001
L36	68.291 - 64.25 (36)	TP36.0374x35.2914x0.73 75	37.89	1358.02	0.028	2.19	4216.77	0.001
L37	64.25 - 64 (37)	TP36.0836x36.0374x0.87 5	37.91	1607.04	0.024	2.19	4977.09	0.000
L38	64 - 60.5 (38)	TP36.7297x36.0836x0.86 25	38.47	1613.72	0.024	2.19	5091.25	0.000
L39	60.5 - 60.25 (39)	TP36.7758x36.7297x0.92 5	38.49	1729.86	0.022	2.19	5455.21	0.000
L40	60.25 - 60.083 (40)	TP36.8067x36.7758x0.92 5	38.52	1731.35	0.022	2.19	5464.59	0.000
L41	60.083 - 59.833 (41)	TP36.8528x36.8067x0.97 5	38.55	1824.74	0.021	2.19	5758.74	0.000
L42	59.833 - 59.083 (42)	TP36.9913x36.8528x0.97 5	38.67	1831.78	0.021	2.19	5803.27	0.000
L43	59.083 - 58.833 (43)	TP37.0374x36.9913x1.05	38.70	1971.11	0.020	2.19	6239.67	0.000
L44	58.833 - 55.4167 (44)	TP37.6681x37.0374x1.02 5	39.23	1959.24	0.020	2.19	6315.08	0.000
L45	55.4167 - 55.1667 (45)	TP37.7142x37.6681x1.02 5	39.25	1961.70	0.020	2.19	6331.00	0.000
L46	55.1667 - 54.75 (46)	TP37.7912x37.7142x1.02 5	39.31	1965.82	0.020	2.19	6357.57	0.000
L47	54.75 - 54.5 (47)	TP37.8373x37.7912x0.82 5	39.35	1592.84	0.025	2.19	5185.82	0.000
L48	54.5 - 49.5 (48)	TP38.7603x37.8373x0.81 25	40.03	1608.35	0.025	2.19	5368.69	0.000
L49	49.5 - 44.5 (49)	TP39.6834x38.7603x0.8	40.69	1622.65	0.025	2.19	5549.94	0.000
L50	44.5 - 41.25 (50)	TP40.2833x39.6834x0.78 75	41.14	1622.46	0.025	2.18	5636.68	0.000
L51	41.25 - 41 (51)	TP40.3295x40.2833x0.87 5	41.16	1800.84	0.023	2.18	6249.87	0.000
L52	41 - 34.291 (52)	TP41.568x40.3295x0.875	41.44	1817.69	0.023	2.18	6367.40	0.000
L53	34.291 - 33.291 (53)	TP40.9955x39.9487x1.17 5	42.40	2644.10	0.016	2.18	9261.58	0.000
L54	33.291 - 31.5 (54)	TP41.3239x40.9955x1.17 5	42.66	2665.91	0.016	2.18	9415.00	0.000
L55	31.5 - 31.25 (55)	TP41.3698x41.3239x1.17 5	42.66	2668.95	0.016	2.18	9436.50	0.000
L56	31.25 - 30.5 (56)	TP41.5073x41.3698x1.17 5	42.78	2678.08	0.016	2.18	9501.17	0.000
L57	30.5 - 30.25	TP41.5532x41.5073x1.12	42.80	2570.21	0.017	2.18	9140.17	0.000

Section No.	Elevation ft	Size	Actual $V_u$ K	$\phi V_n$ K	Ratio $V_u$ $\phi V_n$	Actual $T_u$ kip-ft	$\phi T_n$ kip-ft	Ratio $T_u$ $\phi T_n$
L58	(57) 30.25 - 25.75	5 TP42.3783x41.5532x1.1	43.64	2565.95	0.017	2.23	9316.83	0.000
L59	(58) 25.75 - 25.5	5 TP42.4241x42.3783x1.02	43.67	2397.99	0.018	2.24	8732.50	0.000
L60	(59) 25.5 -	5 TP42.5769x42.4241x1.02	43.84	2406.85	0.018	2.25	8797.08	0.000
L61	(60) 24.6667 -	5 TP42.6228x42.5769x0.92	43.88	2179.66	0.020	2.25	7994.67	0.000
L62	(61) 24.4167 -	5 TP42.6992x42.6228x0.91	43.96	2154.78	0.020	2.26	7920.30	0.000
L63	(62) 24 -	25 TP42.745x42.6992x1.025	44.00	2416.58	0.018	2.26	8868.42	0.000
L64	(63) 23.75 -	18.75 TP43.6619x42.745x1	44.92	2410.87	0.019	2.33	9047.17	0.000
L65	(64) 18.75 -	75 TP44.5176x43.6619x0.98	45.69	2429.18	0.019	2.39	9301.42	0.000
L66	(65) 14.083 -	25 TP44.5664x44.5176x0.96	45.71	2371.70	0.019	2.39	9096.75	0.000
L67	(66) 13.817 -	25 TP44.5939x44.5664x0.96	45.73	2373.19	0.019	2.39	9108.17	0.000
L68	(67) 13.667 -	25 TP45.1746x44.5939x0.95	46.26	2374.22	0.019	2.41	9236.00	0.000
L69	(68) 10.5 -	10.25 TP45.2205x45.1746x0.9	46.28	2254.14	0.021	2.41	8787.92	0.000
L70	(69) 10.25 -	5.25 TP46.1373x45.2205x0.87	47.05	2238.09	0.021	2.41	8910.75	0.000
L71	(70) 5.25 -	2.9 TP46.5682x46.1373x0.75	47.25	1941.93	0.024	2.41	7826.56	0.000
L72	(71) 2.9 -	2.65 TP46.6141x46.5682x0.75	47.23	1943.87	0.024	2.41	7842.22	0.000
L73	(72) 2.65 -	2.5 TP46.6416x46.6141x0.75	47.24	1945.03	0.024	2.41	7851.63	0.000
L74	(73) 2.5 -	2.25 TP46.6874x46.6416x0.87	47.27	2265.29	0.021	2.41	9128.67	0.000
L75	(74) 2.25 -	1.917 TP46.7485x46.6874x0.87	47.30	2268.31	0.021	2.41	9153.00	0.000
L76	(75) 1.917 -	1.667 TP46.7943x46.7485x0.77	47.32	2015.46	0.023	2.41	8158.59	0.000
L77	(76) 1.667 -	0 TP47.1x46.7943x0.7625	47.50	1996.67	0.024	2.41	8138.37	0.000

### Pole Interaction Design Data

Section No.	Elevation ft	Ratio $P_u$ $\phi P_n$	Ratio $M_{ux}$ $\phi M_{nx}$	Ratio $M_{uy}$ $\phi M_{ny}$	Ratio $V_u$ $\phi V_n$	Ratio $T_u$ $\phi T_n$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	160.333 - 155.333 (1)	0.007	0.046	0.000	0.043	0.005	0.056	1.050	4.8.2
L2	155.333 - 150.333 (2)	0.008	0.210	0.000	0.047	0.005	0.221	1.050	4.8.2
L3	150.333 - 146.833 (3)	0.009	0.333	0.000	0.050	0.005	0.344	1.050	4.8.2
L4	146.833 - 146.333 (4)	0.006	0.183	0.000	0.036	0.003	0.191	1.050	4.8.2
L5	146.333 - 141.333 (5)	0.010	0.281	0.000	0.050	0.002	0.294	1.050	4.8.2
L6	141.333 - 136.333 (6)	0.011	0.391	0.000	0.053	0.002	0.405	1.050	4.8.2
L7	136.333 - 131.333 (7)	0.014	0.508	0.000	0.069	0.001	0.527	1.050	4.8.2
L8	131.333 - 126.333 (8)	0.015	0.643	0.000	0.069	0.001	0.663	1.050	4.8.2
L9	126.333 - 121.333 (9)	0.015	0.769	0.000	0.069	0.001	0.788	1.050	4.8.2
L10	121.333 - 120.083 (10)	0.015	0.799	0.000	0.069	0.001	0.819	1.050	4.8.2
L11	120.083 - 119.833 (11)	0.008	0.393	0.000	0.036	0.000	0.402	1.050	4.8.2

Section No.	Elevation ft	Ratio	Ratio	Ratio	Ratio	Ratio	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
		$P_u$	$M_{ux}$	$M_{uy}$	$V_u$	$T_u$			
		$\phi P_n$	$\phi M_{nx}$	$\phi M_{ny}$	$\phi V_n$	$\phi T_n$			
L12	119.833 - 117.5 (12)	0.008	0.417	0.000	0.036	0.000	0.426	1.050	4.8.2
L13	117.5 - 117.25 (13)	0.008	0.409	0.000	0.035	0.000	0.418	1.050	4.8.2
L14	117.25 - 115.5 (14)	0.008	0.426	0.000	0.035	0.000	0.435	1.050	4.8.2
L15	115.5 - 115.25 (15)	0.006	0.329	0.000	0.026	0.000	0.335	1.050	4.8.2
L16	115.25 - 110.25 (16)	0.007	0.375	0.000	0.031	0.000	0.383	1.050	4.8.2
L17	110.25 - 104.083 (17)	0.008	0.401	0.000	0.031	0.000	0.409	1.050	4.8.2
L18	104.083 - 102.82 (18)	0.007	0.415	0.000	0.029	0.000	0.423	1.050	4.8.2
L19	102.82 - 100.5 (19)	0.008	0.437	0.000	0.029	0.000	0.446	1.050	4.8.2
L20	100.5 - 100.25 (20)	0.008	0.471	0.000	0.032	0.000	0.480	1.050	4.8.2
L21	100.25 - 98.5 (21)	0.009	0.491	0.000	0.032	0.000	0.501	1.050	4.8.2
L22	98.5 - 98.25 (22)	0.008	0.467	0.000	0.030	0.000	0.476	1.050	4.8.2
L23	98.25 - 93.25 (23)	0.009	0.505	0.000	0.031	0.000	0.515	1.050	4.8.2
L24	93.25 - 90.5 (24)	0.009	0.530	0.000	0.031	0.000	0.540	1.050	4.8.2
L25	90.5 - 90.25 (25)	0.008	0.495	0.000	0.029	0.000	0.504	1.050	4.8.2
L26	90.25 - 85.25 (26)	0.009	0.528	0.000	0.029	0.000	0.538	1.050	4.8.2
L27	85.25 - 83.5 (27)	0.009	0.546	0.000	0.030	0.000	0.556	1.050	4.8.2
L28	83.5 - 83.25 (28)	0.007	0.406	0.000	0.022	0.000	0.413	1.050	4.8.2
L29	83.25 - 80.75 (29)	0.007	0.425	0.000	0.022	0.000	0.433	1.050	4.8.2
L30	80.75 - 80.5 (30)	0.006	0.362	0.000	0.019	0.000	0.368	1.050	4.8.2
L31	80.5 - 80.25 (31)	0.006	0.392	0.000	0.020	0.000	0.398	1.050	4.8.2
L32	80.25 - 77.5 (32)	0.007	0.404	0.000	0.021	0.000	0.411	1.050	4.8.2
L33	77.5 - 77.25 (33)	0.009	0.553	0.000	0.029	0.001	0.563	1.050	4.8.2
L34	77.25 - 68.82 (34)	0.009	0.569	0.000	0.029	0.001	0.580	1.050	4.8.2
L35	68.82 - 68.291 (35)	0.009	0.562	0.000	0.027	0.001	0.572	1.050	4.8.2
L36	68.291 - 64.25 (36)	0.010	0.584	0.000	0.028	0.001	0.595	1.050	4.8.2
L37	64.25 - 64 (37)	0.008	0.499	0.000	0.024	0.000	0.508	1.050	4.8.2
L38	64 - 60.5 (38)	0.009	0.515	0.000	0.024	0.000	0.524	1.050	4.8.2
L39	60.5 - 60.25 (39)	0.008	0.483	0.000	0.022	0.000	0.491	1.050	4.8.2
L40	60.25 - 60.083 (40)	0.008	0.483	0.000	0.022	0.000	0.492	1.050	4.8.2
L41	60.083 - 59.833 (41)	0.008	0.461	0.000	0.021	0.000	0.469	1.050	4.8.2
L42	59.833 - 59.083 (42)	0.008	0.463	0.000	0.021	0.000	0.471	1.050	4.8.2
L43	59.083 - 58.833 (43)	0.007	0.433	0.000	0.020	0.000	0.440	1.050	4.8.2
L44	58.833 - 55.4167 (44)	0.007	0.449	0.000	0.020	0.000	0.457	1.050	4.8.2
L45	55.4167 - 55.1667 (45)	0.007	0.450	0.000	0.020	0.000	0.458	1.050	4.8.2
L46	55.1667 - 54.75 (46)	0.007	0.451	0.000	0.020	0.000	0.458	1.050	4.8.2

Section No.	Elevation ft	Ratio	Ratio	Ratio	Ratio	Ratio	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
		$P_u$	$M_{ux}$	$M_{uy}$	$V_u$	$T_u$			
		$\phi P_n$	$\phi M_{nx}$	$\phi M_{ny}$	$\phi V_n$	$\phi T_n$			
L47	54.75 - 54.5 (47)	0.009	0.551	0.000	0.025	0.000	0.561	1.050	4.8.2
L48	54.5 - 49.5 (48)	0.010	0.571	0.000	0.025	0.000	0.581	1.050	4.8.2
L49	49.5 - 44.5 (49)	0.010	0.589	0.000	0.025	0.000	0.600	1.050	4.8.2
L50	44.5 - 41.25 (50)	0.010	0.604	0.000	0.025	0.000	0.616	1.050	4.8.2
L51	41.25 - 41 (51)	0.009	0.548	0.000	0.023	0.000	0.558	1.050	4.8.2
L52	41 - 34.291 (52)	0.009	0.551	0.000	0.023	0.000	0.561	1.050	4.8.2
L53	34.291 - 33.291 (53)	0.007	0.409	0.000	0.016	0.000	0.416	1.050	4.8.2
L54	33.291 - 31.5 (54)	0.007	0.411	0.000	0.016	0.000	0.418	1.050	4.8.2
L55	31.5 - 31.25 (55)	0.007	0.411	0.000	0.016	0.000	0.419	1.050	4.8.2
L56	31.25 - 30.5 (56)	0.007	0.412	0.000	0.016	0.000	0.419	1.050	4.8.2
L57	30.5 - 30.25 (57)	0.008	0.429	0.000	0.017	0.000	0.437	1.050	4.8.2
L58	30.25 - 25.75 (58)	0.008	0.442	0.000	0.017	0.000	0.450	1.050	4.8.2
L59	25.75 - 25.5 (59)	0.009	0.472	0.000	0.018	0.000	0.481	1.050	4.8.2
L60	25.5 - 24.6667 (60)	0.009	0.473	0.000	0.018	0.000	0.482	1.050	4.8.2
L61	24.6667 - 24.4167 (61)	0.010	0.520	0.000	0.020	0.000	0.530	1.050	4.8.2
L62	24.4167 - 24 (62)	0.010	0.527	0.000	0.020	0.000	0.538	1.050	4.8.2
L63	24 - 23.75 (63)	0.009	0.474	0.000	0.018	0.000	0.483	1.050	4.8.2
L64	23.75 - 18.75 (64)	0.009	0.489	0.000	0.019	0.000	0.499	1.050	4.8.2
L65	18.75 - 14.083 (65)	0.009	0.499	0.000	0.019	0.000	0.509	1.050	4.8.2
L66	14.083 - 13.817 (66)	0.010	0.512	0.000	0.019	0.000	0.522	1.050	4.8.2
L67	13.817 - 13.667 (67)	0.010	0.512	0.000	0.019	0.000	0.522	1.050	4.8.2
L68	13.667 - 10.5 (68)	0.010	0.521	0.000	0.019	0.000	0.531	1.050	4.8.2
L69	10.5 - 10.25 (69)	0.010	0.548	0.000	0.021	0.000	0.559	1.050	4.8.2
L70	10.25 - 5.25 (70)	0.011	0.567	0.000	0.021	0.000	0.579	1.050	4.8.2
L71	5.25 - 2.9 (71)	0.013	0.659	0.000	0.024	0.000	0.672	1.050	4.8.2
L72	2.9 - 2.65 (72)	0.013	0.659	0.000	0.024	0.000	0.672	1.050	4.8.2
L73	2.65 - 2.5 (73)	0.013	0.659	0.000	0.024	0.000	0.672	1.050	4.8.2
L74	2.5 - 2.25 (74)	0.011	0.570	0.000	0.021	0.000	0.581	1.050	4.8.2
L75	2.25 - 1.917 (75)	0.011	0.570	0.000	0.021	0.000	0.581	1.050	4.8.2
L76	1.917 - 1.667 (76)	0.012	0.640	0.000	0.023	0.000	0.652	1.050	4.8.2
L77	1.667 - 0 (77)	0.013	0.651	0.000	0.024	0.000	0.664	1.050	4.8.2

### Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	$\phi P_{allow}$ K	% Capacity	Pass Fail
L1	160.333 - 155.333	Pole	TP16x16x0.375	1	-4.23	608.84	5.3	Pass

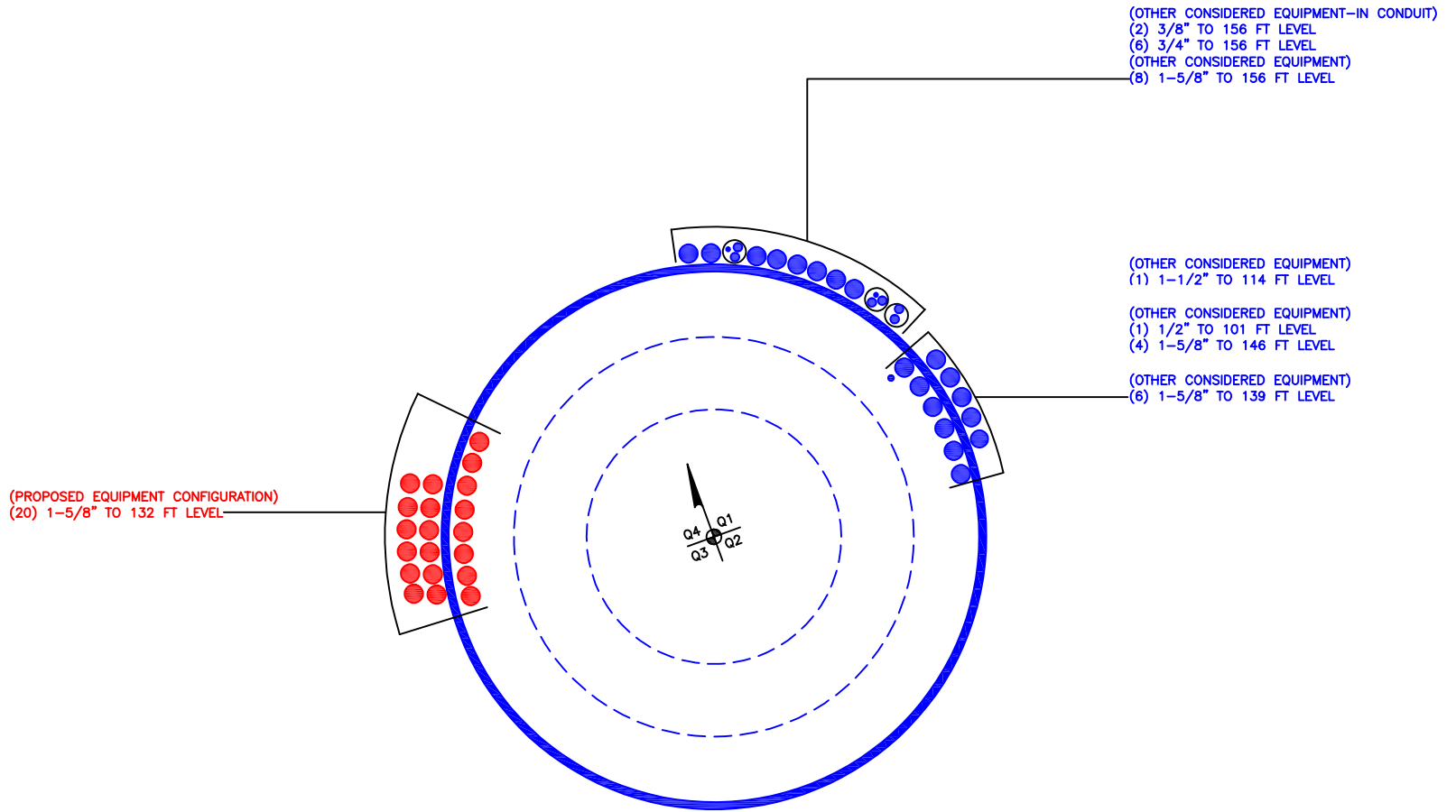
Section No.	Elevation ft	Component Type	Size	Critical Element	P K	$\phi P_{allow}$ K	% Capacity	Pass Fail
L2	155.333 - 150.333	Pole	TP16x16x0.375	2	-4.66	608.84	21.0	Pass
L3	150.333 - 146.833	Pole	TP16x16x0.375	3	-4.98	608.84	32.8	Pass
L4	146.833 - 146.333	Pole	TP22x22x0.375	4	-5.04	842.63	18.2	Pass
L5	146.333 - 141.333	Pole	TP22.924x22x0.25	5	-9.97	1034.92	28.0	Pass
L6	141.333 - 136.333	Pole	TP23.848x22.924x0.25	6	-10.78	1077.10	38.6	Pass
L7	136.333 - 131.333	Pole	TP24.7721x23.848x0.25	7	-15.45	1119.27	50.2	Pass
L8	131.333 - 126.333	Pole	TP25.6961x24.7721x0.25	8	-16.28	1161.45	63.1	Pass
L9	126.333 - 121.333	Pole	TP26.6201x25.6961x0.25	9	-17.15	1203.63	75.1	Pass
L10	121.333 - 120.083	Pole	TP26.8511x26.6201x0.25	10	-17.37	1214.17	78.0	Pass
L11	120.083 - 119.833	Pole	TP26.8973x26.8511x0.4875	11	-17.45	2350.60	38.3	Pass
L12	119.833 - 117.5	Pole	TP27.3285x26.8973x0.4875	12	-18.00	2388.98	40.5	Pass
L13	117.5 - 117.25	Pole	TP27.3747x27.3285x0.5	13	-18.08	2453.30	39.8	Pass
L14	117.25 - 115.5	Pole	TP27.6981x27.3747x0.5	14	-18.52	2482.83	41.4	Pass
L15	115.5 - 115.25	Pole	TP27.7443x27.6981x0.6625	15	-18.61	3275.68	31.9	Pass
L16	115.25 - 110.25	Pole	TP28.6683x27.7443x0.65	16	-23.06	3325.02	36.5	Pass
L17	110.25 - 104.083	Pole	TP29.808x28.6683x0.6375	17	-23.80	3314.80	39.0	Pass
L18	104.083 - 102.82	Pole	TP29.5407x28.6174x0.7	18	-26.26	3685.89	40.3	Pass
L19	102.82 - 100.5	Pole	TP29.9691x29.5407x0.6875	19	-27.12	3675.41	42.4	Pass
L20	100.5 - 100.25	Pole	TP30.0152x29.9691x0.6375	20	-27.21	3419.30	45.7	Pass
L21	100.25 - 98.5	Pole	TP30.3384x30.0152x0.625	21	-27.77	3390.55	47.7	Pass
L22	98.5 - 98.25	Pole	TP30.3846x30.3384x0.6625	22	-27.88	3595.04	45.3	Pass
L23	98.25 - 93.25	Pole	TP31.3078x30.3846x0.65	23	-29.61	3638.26	49.0	Pass
L24	93.25 - 90.5	Pole	TP31.8156x31.3078x0.6375	24	-30.58	3628.85	51.4	Pass
L25	90.5 - 90.25	Pole	TP31.8618x31.8156x0.6875	25	-30.69	3912.98	48.0	Pass
L26	90.25 - 85.25	Pole	TP32.7851x31.8618x0.675	26	-32.65	3957.17	51.2	Pass
L27	85.25 - 83.5	Pole	TP33.1082x32.7851x0.6625	27	-33.33	3924.48	52.9	Pass
L28	83.5 - 83.25	Pole	TP33.1544x33.1082x0.9125	28	-33.47	5371.46	39.4	Pass
L29	83.25 - 80.75	Pole	TP33.616x33.1544x0.8875	29	-34.63	5303.15	41.2	Pass
L30	80.75 - 80.5	Pole	TP33.6622x33.616x1.0625	30	-34.77	6323.85	35.0	Pass
L31	80.5 - 80.25	Pole	TP33.7084x33.6622x0.975	31	-34.89	5826.86	37.9	Pass
L32	80.25 - 77.5	Pole	TP34.2162x33.7084x0.9625	32	-36.21	5843.59	39.2	Pass
L33	77.5 - 77.25	Pole	TP34.2623x34.2162x0.6875	33	-36.33	4214.30	53.7	Pass
L34	77.25 - 68.82	Pole	TP35.819x34.2623x0.6875	34	-38.05	4306.06	55.2	Pass
L35	68.82 - 68.291	Pole	TP35.2914x34.3684x0.75	35	-41.91	4729.78	54.5	Pass
L36	68.291 - 64.25	Pole	TP36.0374x35.2914x0.7375	36	-43.82	4753.08	56.6	Pass
L37	64.25 - 64	Pole	TP36.0836x36.0374x0.875	37	-43.96	5624.65	48.3	Pass
L38	64 - 60.5	Pole	TP36.7297x36.0836x0.8625	38	-45.73	5648.01	49.9	Pass
L39	60.5 - 60.25	Pole	TP36.7758x36.7297x0.925	39	-45.87	6054.52	46.8	Pass
L40	60.25 - 60.083	Pole	TP36.8067x36.7758x0.925	40	-45.96	6059.73	46.8	Pass
L41	60.083 - 59.833	Pole	TP36.8528x36.8067x0.975	41	-46.10	6386.59	44.7	Pass
L42	59.833 - 59.083	Pole	TP36.9913x36.8528x0.975	42	-46.51	6411.25	44.8	Pass
L43	59.083 - 58.833	Pole	TP37.0374x36.9913x1.05	43	-46.66	6898.89	41.9	Pass
L44	58.833 - 55.4167	Pole	TP37.6681x37.0374x1.025	44	-48.65	6857.33	43.5	Pass
L45	55.4167 - 55.1667	Pole	TP37.7142x37.6681x1.025	45	-48.81	6865.96	43.6	Pass
L46	55.1667 - 54.75	Pole	TP37.7912x37.7142x1.025	46	-49.06	6880.36	43.7	Pass
L47	54.75 - 54.5	Pole	TP37.8373x37.7912x0.825	47	-49.19	5574.92	53.5	Pass
L48	54.5 - 49.5	Pole	TP38.7603x37.8373x0.8125	48	-51.80	5629.24	55.3	Pass
L49	49.5 - 44.5	Pole	TP39.6834x38.7603x0.8	49	-54.45	5679.27	57.2	Pass
L50	44.5 - 41.25	Pole	TP40.2833x39.6834x0.7875	50	-56.19	5678.59	58.6	Pass
L51	41.25 - 41	Pole	TP40.3295x40.2833x0.875	51	-56.35	6302.94	53.1	Pass
L52	41 - 34.291	Pole	TP41.568x40.3295x0.875	52	-57.50	6361.93	53.5	Pass
L53	34.291 - 33.291	Pole	TP40.9955x39.9487x1.175	53	-63.56	9254.35	39.7	Pass
L54	33.291 - 31.5	Pole	TP41.3239x40.9955x1.175	54	-64.77	9330.68	39.8	Pass
L55	31.5 - 31.25	Pole	TP41.3698x41.3239x1.175	55	-64.96	9341.32	39.9	Pass
L56	31.25 - 30.5	Pole	TP41.5073x41.3698x1.175	56	-65.47	9373.29	39.9	Pass
L57	30.5 - 30.25	Pole	TP41.5532x41.5073x1.125	57	-65.64	8995.75	41.6	Pass



Section No.	Elevation ft	Component Type	Size	Critical Element	P K	$\phi P_{allow}$ K	% Capacity	Pass Fail	
L58	30.25 - 25.75	Pole	TP42.3783x41.5532x1.1	58	-68.66	8980.81	42.9	Pass	
L59	25.75 - 25.5	Pole	TP42.4241x42.3783x1.025	59	-68.84	8392.99	45.8	Pass	
L60	25.5 - 24.6667	Pole	TP42.5769x42.4241x1.025	60	-69.38	8423.96	45.9	Pass	
L61	24.6667 - 24.4167	Pole	TP42.6228x42.5769x0.925	61	-69.53	7628.80	50.5	Pass	
L62	24.4167 - 24	Pole	TP42.6992x42.6228x0.9125	62	-69.77	7541.75	51.2	Pass	
L63	24 - 23.75	Pole	TP42.745x42.6992x1.025	63	-69.92	8458.03	46.0	Pass	
L64	23.75 - 18.75	Pole	TP43.6619x42.745x1	64	-72.92	8438.03	47.5	Pass	
L65	18.75 - 14.083	Pole	TP44.5176x43.6619x0.9875	65	-75.76	8502.14	48.5	Pass	
L66	14.083 - 13.817	Pole	TP44.5664x44.5176x0.9625	66	-75.94	8300.94	49.7	Pass	
L67	13.817 - 13.667	Pole	TP44.5939x44.5664x0.9625	67	-76.04	8306.18	49.7	Pass	
L68	13.667 - 10.5	Pole	TP45.1746x44.5939x0.95	68	-78.00	8309.77	50.6	Pass	
L69	10.5 - 10.25	Pole	TP45.2205x45.1746x0.9	69	-78.17	7889.48	53.2	Pass	
L70	10.25 - 5.25	Pole	TP46.1373x45.2205x0.875	70	-81.19	7833.33	55.1	Pass	
L71	5.25 - 2.9	Pole	TP46.5682x46.1373x0.75	71	-82.39	6796.74	64.0	Pass	
L72	2.9 - 2.65	Pole	TP46.6141x46.5682x0.75	72	-82.53	6803.54	64.0	Pass	
L73	2.65 - 2.5	Pole	TP46.6416x46.6141x0.75	73	-82.61	6807.62	64.0	Pass	
L74	2.5 - 2.25	Pole	TP46.6874x46.6416x0.875	74	-82.75	7928.53	55.3	Pass	
L75	2.25 - 1.917	Pole	TP46.7485x46.6874x0.875	75	-82.93	7939.09	55.4	Pass	
L76	1.917 - 1.667	Pole	TP46.7943x46.7485x0.775	76	-83.05	7054.12	62.1	Pass	
L77	1.667 - 0	Pole	TP47.1x46.7943x0.7625	77	-83.88	6988.33	63.3	Pass	
							Summary		
							Pole (L10)	78.0	Pass
							<b>RATING =</b>	<b>78.0</b>	<b>Pass</b>

**\*NOTE: Above stress ratios for reinforced sections are approximate. More exact calculations are presented in Appendix C.**

**APPENDIX B**  
**BASE LEVEL DRAWING**



**APPENDIX C**  
**ADDITIONAL CALCULATIONS**

**Pole Geometry**

Pole Height Above Base (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Bend Radius (in)	Pole Material
160.333	13.5	0	0	16	16	0.375		A53-B-35
146.833	0.5	0	0	22.00	22	0.375		A53-B-35
146.333	42.25	3.737	12	22.00	29.808	0.25	Auto	A607-60
107.82	39	4.471	12	28.62	35.819	0.3125	Auto	A607-60
73.291	39	4.709	12	34.37	41.568	0.375	Auto	A607-60
39	39	0	12	39.95	47.1	0.375	Auto	A607-65

**Reinforcement Configuration**

Bottom Effective Elevation (ft)	Top Effective Elevation (ft)	Type	Model	Number	1	2	3	4	5	6	7	8	9	10	11	12
1	1.917	14.083	channel	MP3-04 (1.1875in)	2					E1		E1				
2	2.917	30.5	channel	MP3-05 (1.1875in)	2			E1								E1
3	30.5	59.083	channel	MP3-04 (1.1875in)	2			E1								E1
4	13.917	31.5	channel	MP3-05 (1.1875in)	1						E1					
5	31.5	60.083	channel	MP3-04 (1.1875in)	1					E1						
6	2.5	30.5	plate	MS-600 (1.1875")	3	E2			E2				E2			
7	30.5	60.5	plate	MS-650 (1.1875")	3	E2			E2				E2			
8	60.5	80.5	plate	MS-600 (1.1875")	3	E2			E2				E2			
9	80.5	98.5	plate	MS-600 (1.1875")	2				E2				E2			
10	80.5	100.5	plate	MS-650 (1.1875")	1	E2										
11	100.5	117.5	plate	CCI-SFP-045100	1			E3								
12	98.5	115.5	plate	CCI-SFP-045100	2						E3					E3
13	3	10.5	plate	CCI-AFP-060100	1											E4
14	10.5	41.25	plate	CCI-AFP-085125	1											E4
15	64.25	80.75	plate	CCI-AFP-085125	1											E4
16	24.6667	55.41667	plate	CCI-AFP-085125	2					E5				E5		
17	55.41667	90.5	plate	CCI-AFP-085125	2					E5				E5		
18	90.5	120.083	plate	CCI-AFP-060100	2					E5				E5		
19	100.5	120.083	plate	CCI-AFP-060100	1		E5									
20	25.75	35.35	plate	MS-650 (1.1875")	3	E2			E2				E2			
21	54.75	64.25	plate	MS-600 (1.1875")	3	E2			E2				E2			
22	77.5	83.5	plate	MS-600 (1.1875")	3	E2			E2				E2			
23	0	24	plate	TS-5.875x1.25_BS	4		-5.5	-5.5		-5.5					-5.5	
24	0	2.5	plate	TS-5.875x1.25_BS	4	E4			E4		E4				E4	
25	24	25.75	plate	TS-5.875x1.25	3		-5.5			-5.5					-5.5	
26																

**Reinforcement Details**

	B (in)	H (in)	Gross Area (in <sup>2</sup> )	Pole Face to Centroid (in)	Bottom Termination Type	Bottom Termination Length (in)	Top Termination Type	Top Termination Length (in)	Lu (in)	Net Area (in <sup>2</sup> )	Bolt Hole Size (in)	Reinforcement Material
1	4.78	1.61	4.13	0.61	PC 8.8 - M20 (100)	17	PC 8.8 - M20 (100)	17.000	18.000	3.593	1.1875	A572-65
2	5.33	2.09	5.65	0.79	PC 8.8 - M20 (100)	29	PC 8.8 - M20 (100)	29.000	18.000	5.025	1.1875	A572-65
3	4.78	1.61	4.13	0.61	PC 8.8 - M20 (100)	17	PC 8.8 - M20 (100)	17.000	18.000	3.593	1.1875	A572-65
4	5.33	2.09	5.65	0.79	PC 8.8 - M20 (100)	29	PC 8.8 - M20 (100)	29.000	18.000	5.025	1.1875	A572-65
5	4.78	1.61	4.13	0.61	PC 8.8 - M20 (100)	17	PC 8.8 - M20 (100)	17.000	18.000	3.593	1.1875	A572-65
6	6	1	6	0.5	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	16.375	4.750	1.1875	A572-65
7	6.5	1.25	8.125	0.625	PC 8.8 - M20 (100)	33	PC 8.8 - M20 (100)	33.000	19.250	6.563	1.1875	A572-65
8	6	1	6	0.5	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	16.375	4.750	1.1875	A572-65
9	6	1	6	0.5	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	16.375	4.750	1.1875	A572-65
10	6.5	1.25	8.125	0.625	PC 8.8 - M20 (100)	33	PC 8.8 - M20 (100)	33.000	19.250	6.563	1.1875	A572-65
11	4.5	1	4.5	0.5	PC 8.8 - M20 (100)	18	PC 8.8 - M20 (100)	18.000	20.000	3.250	1.1875	A572-65
12	4.5	1	4.5	0.5	PC 8.8 - M20 (100)	18	PC 8.8 - M20 (100)	18.000	20.000	3.250	1.1875	A572-65
13	6	1	6	0.5	PC 8.8 - M20 (100)	30	PC 8.8 - M20 (100)	30.000	16.000	4.750	1.1875	A572-65
14	8.5	1.25	10.625	0.625	PC 8.8 - M20 (100)	51	PC 8.8 - M20 (100)	51.000	17.000	9.063	1.1875	A572-65
15	8.5	1.25	10.625	0.625	PC 8.8 - M20 (100)	51	PC 8.8 - M20 (100)	51.000	17.000	9.063	1.1875	A572-65
16	8.5	1.25	10.625	0.625	PC 8.8 - M20 (100)	51	PC 8.8 - M20 (100)	51.000	17.000	9.063	1.1875	A572-65
17	8.5	1.25	10.625	0.625	PC 8.8 - M20 (100)	51	PC 8.8 - M20 (100)	51.000	17.000	9.063	1.1875	A572-65
18	6	1	6	0.5	PC 8.8 - M20 (100)	30	PC 8.8 - M20 (100)	30.000	16.000	4.750	1.1875	A572-65
19	6	1	6	0.5	PC 8.8 - M20 (100)	30	PC 8.8 - M20 (100)	30.000	16.000	4.750	1.1875	A572-65
20	6.5	1.25	8.125	0.625	PC 8.8 - M20 (100)	33	PC 8.8 - M20 (100)	33.000	19.250	6.563	1.1875	A572-65
21	6	1	6	0.5	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	16.375	4.750	1.1875	A572-65
22	6	1	6	0.5	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	16.375	4.750	1.1875	A572-65
23	1.25	5.125	6.40625	2.5625	Welded	n/a	Welded	n/a	0.750	6.406	0.0000	A572-65
24	1.25	5.125	6.40625	2.5625	Welded	n/a	Welded	n/a	0.750	6.406	0.0000	A572-65
25	1.25	5.125	6.40625	2.5625	Welded	n/a	Welded	n/a	0.750	6.406	0.0000	A572-65

**Connection Details for Custom Reinforcements**

Reinforcement	End	# Bolts	N or X	Bolt Spacing (in)	Edge Dist (in)	Weld Grade (ksi)	Transverse (Horiz.) Weld Type	Horiz. Weld Length (in)	Horiz. Groove Depth (in)	Horiz. Groove Angle (deg)	Horiz. Fillet Size (in)	Vertical Weld Length (in)	Vertical Fillet Size (in)	Rev H Connection Capacity (kip)
TS-5.875x1.25_BS	Top	-	-	-	-	70	None	-	-	-	-	342	0.250	-
	Bottom	-	-	-	-	70	CJP Groove	10.25	0.625	45	0.5	-	-	-
TS-5.875x1.25	Top	-	-	-	-	70	None	-	-	-	-	342	0.250	-
	Bottom	-	-	-	-	70	Fillet	10.25	-	-	0.5	-	-	-

# TNX Geometry Input

Increment (ft): 5 [Export to TNX](#)

	Section Height (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Tapered Pole Grade	Weight Multiplier
1	160.333 - 155.333	5		0	16.000	16.000	0.375	A53-B-35	1.000
2	155.333 - 150.333	5		0	16.000	16.000	0.375	A53-B-35	1.000
3	150.333 - 146.833	3.5	0	0	16.000	16.000	0.375	A53-B-35	1.000
4	146.833 - 146.333	0.5	0	0	22.000	22.000	0.375	A53-B-35	1.000
5	146.333 - 141.333	5		12	22.000	22.924	0.25	A607-60	1.000
6	141.333 - 136.333	5		12	22.924	23.848	0.25	A607-60	1.000
7	136.333 - 131.333	5		12	23.848	24.772	0.25	A607-60	1.000
8	131.333 - 126.333	5		12	24.772	25.696	0.25	A607-60	1.000
9	126.333 - 121.333	5		12	25.696	26.620	0.25	A607-60	1.000
10	121.333 - 120.083	1.25		12	26.620	26.851	0.25	A607-60	1.000
11	120.083 - 119.833	0.25		12	26.851	26.897	0.4875	A607-60	0.952
12	119.833 - 117.5	2.333		12	26.897	27.328	0.4875	A607-60	0.945
13	117.5 - 117.25	0.25		12	27.328	27.375	0.5	A607-60	1.025
14	117.25 - 115.5	1.75		12	27.375	27.698	0.5	A607-60	1.019
15	115.5 - 115.25	0.25		12	27.698	27.744	0.6625	A607-60	0.929
16	115.25 - 110.25	5		12	27.744	28.668	0.65	A607-60	0.928
17	110.25 - 107.82	6.167	3.737	12	28.668	29.808	0.6375	A607-60	0.937
18	107.82 - 102.82	5		12	28.617	29.541	0.7	A607-60	0.938
19	102.82 - 100.5	2.32		12	29.541	29.969	0.6875	A607-60	0.947
20	100.5 - 100.25	0.25		12	29.969	30.015	0.6375	A607-60	0.979
21	100.25 - 98.5	1.75		12	30.015	30.338	0.625	A607-60	0.993
22	98.5 - 98.25	0.25		12	30.338	30.385	0.6625	A607-60	0.985
23	98.25 - 93.25	5		12	30.385	31.308	0.65	A607-60	0.987
24	93.25 - 90.5	2.75		12	31.308	31.816	0.6375	A607-60	0.998
25	90.5 - 90.25	0.25		12	31.816	31.862	0.6875	A607-60	1.060
26	90.25 - 85.25	5		12	31.862	32.785	0.675	A607-60	1.062
27	85.25 - 83.5	1.75		12	32.785	33.108	0.6625	A607-60	1.075
28	83.5 - 83.25	0.25		12	33.108	33.154	0.9125	A607-60	0.976
29	83.25 - 80.75	2.5		12	33.154	33.616	0.8875	A607-60	0.994
30	80.75 - 80.5	0.25		12	33.616	33.662	1.0625	A607-60	0.929
31	80.5 - 80.25	0.25		12	33.662	33.708	0.975	A607-60	0.988
32	80.25 - 77.5	2.75		12	33.708	34.216	0.9625	A607-60	0.991
33	77.5 - 77.25	0.25		12	34.216	34.262	0.6875	A607-60	1.132
34	77.25 - 73.291	8.43	4.471	12	34.262	35.819	0.6875	A607-60	1.117
35	73.291 - 68.291	5		12	34.368	35.291	0.75	A607-60	1.104
36	68.291 - 64.25	4.041		12	35.291	36.037	0.7375	A607-60	1.110
37	64.25 - 64	0.25		12	36.037	36.084	0.875	A607-60	1.013
38	64 - 60.5	3.5		12	36.084	36.730	0.8625	A607-60	1.016
39	60.5 - 60.25	0.25		12	36.730	36.776	0.925	A607-60	1.008
40	60.25 - 60.083	0.167		12	36.776	36.807	0.925	A607-60	1.008
41	60.083 - 59.833	0.25		12	36.807	36.853	0.975	A607-60	0.993
42	59.833 - 59.083	0.75		12	36.853	36.991	0.975	A607-60	0.991
43	59.083 - 58.833	0.25		12	36.991	37.037	1.05	A607-60	0.989
44	58.833 - 55.41667	3.41663		12	37.037	37.668	1.025	A607-60	1.002
45	55.41667 - 55.16667	0.25		12	37.668	37.714	1.025	A607-60	1.001
46	55.16667 - 54.75	0.41667		12	37.714	37.791	1.025	A607-60	1.000
47	54.75 - 54.5	0.25		12	37.791	37.837	0.825	A607-60	1.051
48	54.5 - 49.5	5		12	37.837	38.760	0.8125	A607-60	1.052
49	49.5 - 44.5	5		12	38.760	39.683	0.8	A607-60	1.054
50	44.5 - 41.25	3.25		12	39.683	40.283	0.7875	A607-60	1.061
51	41.25 - 41	0.25		12	40.283	40.329	0.875	A607-60	1.052
52	41 - 39	6.709	4.709	12	40.329	41.568	0.875	A607-60	1.047
53	39 - 33.291	5.709		12	39.949	40.996	1.175	A607-65	0.944
54	33.291 - 31.5	1.791		12	40.996	41.324	1.175	A607-65	0.939
55	31.5 - 31.25	0.25		12	41.324	41.370	1.175	A607-65	0.948
56	31.25 - 30.5	0.75		12	41.370	41.507	1.175	A607-65	0.946
57	30.5 - 30.25	0.25		12	41.507	41.553	1.125	A607-65	0.963
58	30.25 - 25.75	4.5		12	41.553	42.378	1.1	A607-65	0.972
59	25.75 - 25.5	0.25		12	42.378	42.424	1.025	A607-65	1.002
60	25.5 - 24.6667	0.8333		12	42.424	42.577	1.025	A607-65	1.000
61	24.6667 - 24.4167	0.25		12	42.577	42.623	0.925	A607-65	0.933
62	24.4167 - 24	0.4167		12	42.623	42.699	0.9125	A607-65	0.945
63	24 - 23.75	0.25		12	42.699	42.745	1.025	A607-65	0.889
64	23.75 - 18.75	5		12	42.745	43.662	1	A607-65	0.900
65	18.75 - 14.083	4.667		12	43.662	44.518	0.9875	A607-65	0.900
66	14.083 - 13.817	0.266		12	44.518	44.566	0.9625	A607-65	0.942
67	13.817 - 13.667	0.15		12	44.566	44.594	0.9625	A607-65	0.941
68	13.667 - 10.5	3.167		12	44.594	45.175	0.95	A607-65	0.946
69	10.5 - 10.25	0.25		12	45.175	45.220	0.9	A607-65	0.961
70	10.25 - 5.25	5		12	45.220	46.137	0.875	A607-65	0.977
71	5.25 - 2.9	2.35		12	46.137	46.568	0.75	A607-65	0.974
72	2.9 - 2.65	0.25		12	46.568	46.614	0.75	A607-65	0.973
73	2.65 - 2.5	0.15		12	46.614	46.642	0.75	A607-65	0.973
74	2.5 - 2.25	0.25		12	46.642	46.687	0.875	A607-65	0.895
75	2.25 - 1.917	0.333		12	46.687	46.748	0.875	A607-65	0.894
76	1.917 - 1.667	0.25		12	46.748	46.794	0.775	A607-65	0.935
77	1.667 - 0	1.667		12	46.794	47.100	0.7625	A607-65	0.947

# TNX Section Forces

Increment (ft):		TNX Output			
5					
	Section Height (ft)	P <sub>u</sub> (K)	M <sub>ux</sub> (kip-ft)	V <sub>u</sub> (K)	
1	160.333 - 155.333	4.23	11.06	7.54	
2	155.333 - 150.333	4.66	50.45	8.19	
3	150.333 - 146.833	4.98	79.93	8.64	
4	146.833 - 146.333	5.04	84.27	8.72	
5	146.333 - 141.333	9.97	157.52	14.77	
6	141.333 - 136.333	10.79	235.07	16.17	
7	136.333 - 131.333	15.45	325.06	22.06	
8	131.333 - 126.333	16.28	437.51	22.91	
9	126.333 - 121.333	17.15	554.15	23.75	
10	121.333 - 120.083	17.37	583.97	23.96	
11	120.083 - 119.833	17.45	589.97	23.99	
12	119.833 - 117.5	18.00	646.37	24.34	
13	117.5 - 117.25	18.08	652.46	24.38	
14	117.25 - 115.5	18.52	695.37	24.65	
15	115.5 - 115.25	18.61	701.54	24.68	
16	115.25 - 110.25	23.06	840.59	29.10	
17	110.25 - 107.82	23.80	911.79	29.48	
18	107.82 - 102.82	26.26	1061.49	30.36	
19	102.82 - 100.5	27.12	1132.41	30.81	
20	100.5 - 100.25	27.21	1140.12	30.84	
21	100.25 - 98.5	27.77	1194.35	31.12	
22	98.5 - 98.25	27.88	1202.13	31.14	
23	98.25 - 93.25	29.61	1359.78	31.90	
24	93.25 - 90.5	30.58	1448.07	32.31	
25	90.5 - 90.25	30.69	1456.15	32.33	
26	90.25 - 85.25	32.65	1619.74	33.08	
27	85.25 - 83.5	33.33	1677.94	33.44	
28	83.5 - 83.25	33.47	1686.31	33.47	
29	83.25 - 80.75	34.63	1770.54	33.89	
30	80.75 - 80.5	34.77	1779.02	33.92	
31	80.5 - 80.25	34.89	1787.51	33.97	
32	80.25 - 77.5	36.21	1882.23	35.13	
33	77.5 - 77.25	36.33	1891.02	35.17	
34	77.25 - 73.291	38.05	2031.76	35.96	
35	73.291 - 68.291	41.91	2214.38	37.10	
36	68.291 - 64.25	43.82	2365.82	37.89	
37	64.25 - 64	43.96	2375.29	37.91	
38	64 - 60.5	45.73	2508.90	38.47	
39	60.5 - 60.25	45.87	2518.52	38.49	
40	60.25 - 60.083	45.96	2524.95	38.52	
41	60.083 - 59.833	46.10	2534.58	38.55	
42	59.833 - 59.083	46.51	2563.54	38.67	
43	59.083 - 58.833	46.66	2573.21	38.70	
44	58.833 - 55.41667	48.65	2706.28	39.23	
45	55.41667 - 55.16667	48.81	2716.09	39.25	
46	55.16667 - 54.75	49.06	2732.45	39.31	
47	54.75 - 54.5	49.19	2742.29	39.35	
48	54.5 - 49.5	51.80	2940.67	40.03	
49	49.5 - 44.5	54.45	3142.38	40.69	
50	44.5 - 41.25	56.19	3275.28	41.14	
51	41.25 - 41	56.35	3285.56	41.16	
52	41 - 39	57.50	3368.14	41.44	
53	39 - 33.291	63.56	3607.43	42.40	
54	33.291 - 31.5	64.77	3683.55	42.66	
55	31.5 - 31.25	64.96	3694.21	42.66	
56	31.25 - 30.5	65.47	3726.24	42.78	
57	30.5 - 30.25	65.64	3736.94	42.80	
58	30.25 - 25.75	68.66	3931.37	43.64	
59	25.75 - 25.5	68.84	3942.28	43.67	
60	25.5 - 24.6667	69.38	3978.73	43.84	
61	24.6667 - 24.4167	69.53	3989.69	43.88	
62	24.4167 - 24	69.77	4007.99	43.96	
63	24 - 23.75	69.92	4018.98	44.00	
64	23.75 - 18.75	72.92	4241.20	44.92	
65	18.75 - 14.083	75.76	4452.52	45.69	
66	14.083 - 13.817	75.94	4464.67	45.71	
67	13.817 - 13.667	76.04	4471.53	45.73	
68	13.667 - 10.5	78.00	4617.14	46.26	
69	10.5 - 10.25	78.17	4628.70	46.28	
70	10.25 - 5.25	81.19	4861.94	47.05	
71	5.25 - 2.9	82.39	4972.69	47.25	
72	2.9 - 2.65	82.53	4984.50	47.23	
73	2.65 - 2.5	82.61	4991.59	47.24	
74	2.5 - 2.25	82.75	5003.40	47.27	
75	2.25 - 1.917	82.93	5019.15	47.30	
76	1.917 - 1.667	83.05	5030.98	47.32	
77	1.667 - 0	83.88	5109.98	47.50	

# Analysis Results

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
160.33 - 155.33	Pole	TP16x16x0.375	Pole	5.3%	Pass
155.33 - 150.33	Pole	TP16x16x0.375	Pole	21.0%	Pass
150.33 - 146.83	Pole	TP16x16x0.375	Pole	32.7%	Pass
146.83 - 146.33	Pole	TP22x22x0.375	Pole	18.2%	Pass
146.33 - 141.33	Pole	TP22.924x22x0.25	Pole	27.9%	Pass
141.33 - 136.33	Pole	TP23.848x22.924x0.25	Pole	38.5%	Pass
136.33 - 131.33	Pole	TP24.772x23.848x0.25	Pole	50.1%	Pass
131.33 - 126.33	Pole	TP25.696x24.772x0.25	Pole	62.9%	Pass
126.33 - 121.33	Pole	TP26.62x25.696x0.25	Pole	74.9%	Pass
121.33 - 120.08	Pole	TP26.851x26.62x0.25	Pole	77.7%	Pass
120.08 - 119.83	Pole + Reinf.	TP26.897x26.851x0.4875	Reinf. 18 Tension Rupture	54.0%	Pass
119.83 - 117.5	Pole + Reinf.	TP27.328x26.897x0.4875	Reinf. 18 Tension Rupture	57.7%	Pass
117.5 - 117.25	Pole + Reinf.	TP27.375x27.328x0.5	Reinf. 19 Tension Rupture	53.8%	Pass
117.25 - 115.5	Pole + Reinf.	TP27.698x27.375x0.5	Reinf. 19 Tension Rupture	56.3%	Pass
115.5 - 115.25	Pole + Reinf.	TP27.744x27.698x0.6625	Reinf. 11 Tension Rupture	49.7%	Pass
115.25 - 110.25	Pole + Reinf.	TP28.668x27.744x0.65	Reinf. 11 Tension Rupture	56.9%	Pass
110.25 - 107.82	Pole + Reinf.	TP29.808x28.668x0.6375	Reinf. 11 Tension Rupture	60.4%	Pass
107.82 - 102.82	Pole + Reinf.	TP29.541x28.617x0.7	Reinf. 11 Tension Rupture	62.6%	Pass
102.82 - 100.5	Pole + Reinf.	TP29.969x29.541x0.6875	Reinf. 11 Tension Rupture	65.4%	Pass
100.5 - 100.25	Pole + Reinf.	TP30.015x29.969x0.6375	Reinf. 18 Tension Rupture	66.9%	Pass
100.25 - 98.5	Pole + Reinf.	TP30.338x30.015x0.625	Reinf. 18 Tension Rupture	68.9%	Pass
98.5 - 98.25	Pole + Reinf.	TP30.385x30.338x0.6625	Reinf. 10 Tension Rupture	65.9%	Pass
98.25 - 93.25	Pole + Reinf.	TP31.308x30.385x0.65	Reinf. 10 Tension Rupture	71.2%	Pass
93.25 - 90.5	Pole + Reinf.	TP31.816x31.308x0.6375	Reinf. 10 Tension Rupture	74.0%	Pass
90.5 - 90.25	Pole + Reinf.	TP31.862x31.816x0.6875	Reinf. 10 Tension Rupture	73.0%	Pass
90.25 - 85.25	Pole + Reinf.	TP32.785x31.862x0.675	Reinf. 10 Tension Rupture	77.8%	Pass
85.25 - 83.5	Pole + Reinf.	TP33.108x32.785x0.6625	Reinf. 10 Tension Rupture	79.4%	Pass
83.5 - 83.25	Pole + Reinf.	TP33.154x33.108x0.9125	Reinf. 22 Tension Rupture	60.2%	Pass
83.25 - 80.75	Pole + Reinf.	TP33.616x33.154x0.8875	Reinf. 22 Tension Rupture	62.0%	Pass
80.75 - 80.5	Pole + Reinf.	TP33.662x33.616x1.0625	Reinf. 22 Tension Rupture	51.0%	Pass
80.5 - 80.25	Pole + Reinf.	TP33.708x33.662x0.975	Reinf. 8 Tension Rupture	54.9%	Pass
80.25 - 77.5	Pole + Reinf.	TP34.216x33.708x0.9625	Reinf. 8 Tension Rupture	56.7%	Pass
77.5 - 77.25	Pole + Reinf.	TP34.262x34.216x0.6875	Reinf. 8 Tension Rupture	79.3%	Pass
77.25 - 73.29	Pole + Reinf.	TP35.819x34.262x0.6875	Reinf. 8 Tension Rupture	82.6%	Pass
73.29 - 68.29	Pole + Reinf.	TP35.291x34.368x0.75	Reinf. 8 Tension Rupture	81.0%	Pass
68.29 - 64.25	Pole + Reinf.	TP36.037x35.291x0.7375	Reinf. 8 Tension Rupture	83.8%	Pass
64.25 - 64	Pole + Reinf.	TP36.084x36.037x0.875	Reinf. 21 Tension Rupture	73.9%	Pass
64 - 60.5	Pole + Reinf.	TP36.73x36.084x0.8625	Reinf. 21 Tension Rupture	76.1%	Pass
60.5 - 60.25	Pole + Reinf.	TP36.776x36.73x0.925	Reinf. 21 Tension Rupture	71.8%	Pass
60.25 - 60.08	Pole + Reinf.	TP36.807x36.776x0.925	Reinf. 21 Tension Rupture	71.9%	Pass
60.08 - 59.83	Pole + Reinf.	TP36.853x36.807x0.975	Reinf. 21 Tension Rupture	69.6%	Pass
59.83 - 59.08	Pole + Reinf.	TP36.991x36.853x0.975	Reinf. 21 Tension Rupture	70.0%	Pass
59.08 - 58.83	Pole + Reinf.	TP37.037x36.991x1.05	Reinf. 21 Tension Rupture	63.8%	Pass
58.83 - 55.42	Pole + Reinf.	TP37.668x37.037x1.025	Reinf. 21 Tension Rupture	65.5%	Pass
55.42 - 55.17	Pole + Reinf.	TP37.714x37.668x1.025	Reinf. 21 Tension Rupture	65.6%	Pass
55.17 - 54.75	Pole + Reinf.	TP37.791x37.714x1.025	Reinf. 21 Tension Rupture	65.8%	Pass
54.75 - 54.5	Pole + Reinf.	TP37.837x37.791x0.825	Reinf. 7 Tension Rupture	79.9%	Pass
54.5 - 49.5	Pole + Reinf.	TP38.76x37.837x0.8125	Reinf. 7 Tension Rupture	82.6%	Pass
49.5 - 44.5	Pole + Reinf.	TP39.683x38.76x0.8	Reinf. 7 Tension Rupture	85.2%	Pass
44.5 - 41.25	Pole + Reinf.	TP40.283x39.683x0.7875	Reinf. 7 Tension Rupture	86.8%	Pass
41.25 - 41	Pole + Reinf.	TP40.329x40.283x0.875	Reinf. 7 Tension Rupture	76.2%	Pass
41 - 39	Pole + Reinf.	TP41.568x40.329x0.875	Reinf. 7 Tension Rupture	77.1%	Pass
39 - 33.29	Pole + Reinf.	TP40.996x39.949x1.175	Reinf. 7 Tension Rupture	60.3%	Pass
33.29 - 31.5	Pole + Reinf.	TP41.324x40.996x1.175	Reinf. 7 Tension Rupture	60.9%	Pass
31.5 - 31.25	Pole + Reinf.	TP41.37x41.324x1.175	Reinf. 7 Tension Rupture	60.6%	Pass
31.25 - 30.5	Pole + Reinf.	TP41.507x41.37x1.175	Reinf. 7 Tension Rupture	60.9%	Pass
30.5 - 30.25	Pole + Reinf.	TP41.553x41.507x1.125	Reinf. 6 Tension Rupture	63.9%	Pass
30.25 - 25.75	Pole + Reinf.	TP42.378x41.553x1.1	Reinf. 6 Tension Rupture	65.5%	Pass
25.75 - 25.5	Pole + Reinf.	TP42.424x42.378x1.025	Reinf. 6 Tension Rupture	71.7%	Pass
25.5 - 24.67	Pole + Reinf.	TP42.577x42.424x1.025	Reinf. 6 Tension Rupture	72.0%	Pass
24.67 - 24.42	Pole + Reinf.	TP42.623x42.577x0.925	Reinf. 6 Tension Rupture	79.2%	Pass
24.42 - 24	Pole + Reinf.	TP42.699x42.623x0.9125	Reinf. 6 Tension Rupture	79.4%	Pass
24 - 23.75	Pole + Reinf.	TP42.745x42.699x1.025	Reinf. 6 Tension Rupture	75.1%	Pass
23.75 - 18.75	Pole + Reinf.	TP43.662x42.745x1	Reinf. 6 Tension Rupture	77.0%	Pass
18.75 - 14.08	Pole + Reinf.	TP44.518x43.662x0.9875	Reinf. 6 Tension Rupture	78.8%	Pass
14.08 - 13.82	Pole + Reinf.	TP44.566x44.518x0.9625	Reinf. 1 Tension Rupture	77.0%	Pass
13.82 - 13.67	Pole + Reinf.	TP44.594x44.566x0.9625	Reinf. 1 Tension Rupture	77.0%	Pass
13.67 - 10.5	Pole + Reinf.	TP45.175x44.594x0.95	Reinf. 1 Tension Rupture	78.1%	Pass
10.5 - 10.25	Pole + Reinf.	TP45.22x45.175x0.9	Reinf. 13 Tension Rupture	80.7%	Pass
10.25 - 5.25	Pole + Reinf.	TP46.137x45.22x0.875	Reinf. 13 Tension Rupture	82.4%	Pass
5.25 - 2.9	Pole + Reinf.	TP46.568x46.137x0.75	Reinf. 23 Compression	93.4%	Pass
2.9 - 2.65	Pole + Reinf.	TP46.614x46.568x0.75	Reinf. 23 Compression	93.5%	Pass
2.65 - 2.5	Pole + Reinf.	TP46.642x46.614x0.75	Reinf. 23 Compression	93.5%	Pass
2.5 - 2.25	Pole + Reinf.	TP46.687x46.642x0.875	Reinf. 23 Compression	79.9%	Pass
2.25 - 1.92	Pole + Reinf.	TP46.748x46.687x0.875	Reinf. 23 Compression	80.0%	Pass
1.92 - 1.67	Pole + Reinf.	TP46.794x46.748x0.775	Reinf. 23 Compression	85.9%	Pass
1.67 - 0	Pole + Reinf.	TP47.1x46.794x0.7625	Reinf. 23 Compression	86.4%	Pass
				Summary	
			Pole	81.0%	Pass
			Reinforcement	93.5%	Pass
			Overall	93.5%	Pass





# Monopole Flange Plate Connection

Elevation = 146.833 ft.

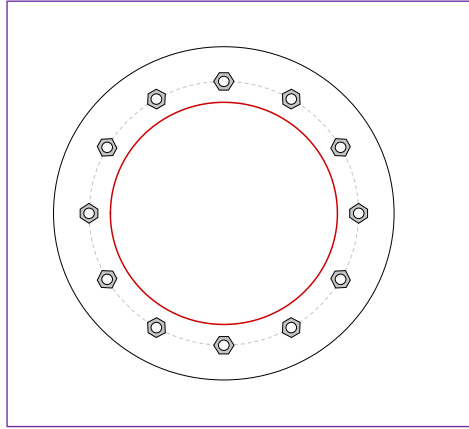


BU #	876334
Site Name	Southington, Smoron
Order #	582736 Rev. 0
TIA-222 Revision	H

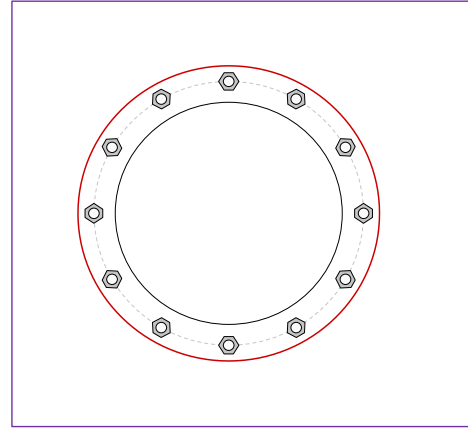
Applied Loads	
Moment (kip-ft)	79.93
Axial Force (kips)	4.98
Shear Force (kips)	8.64

\*TIA-222-H Section 15.5 Applied

Top Plate - External



Bottom Plate - Internal



## Connection Properties

### Bolt Data

(12) 3/4"  $\phi$  bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 19" BC

### Top Plate Data

24" OD x 1.5" Plate (A572-50; Fy=50 ksi, Fu=65 ksi)

### Bottom Plate Data

16" ID x 0.75" Plate (A572-50; Fy=50 ksi, Fu=65 ksi)

### Top Stiffener Data

N/A

### Bottom Stiffener Data

N/A

### Top Pole Data

16" x 0.375" round pole (A53-B-35; Fy=35 ksi, Fu=60 ksi)

### Bottom Pole Data

22" x 0.375" round pole (A53-B-35; Fy=35 ksi, Fu=60 ksi)

## Analysis Results

### Bolt Capacity

Max Load (kips)	16.40
Allowable (kips)	30.04
Stress Rating:	52.0% <b>Pass</b>

### Top Plate Capacity

Max Stress (ksi):	6.80	(Flexural)
Allowable Stress (ksi):	45.00	
Stress Rating:	14.4%	<b>Pass</b>
Tension Side Stress Rating:	7.1%	<b>Pass</b>

### Bottom Plate Capacity

Max Stress (ksi):	26.26	(Flexural)
Allowable Stress (ksi):	45.00	
Stress Rating:	55.6%	<b>Pass</b>
Tension Side Stress Rating:	N/A	

# Monopole Base Plate Connection

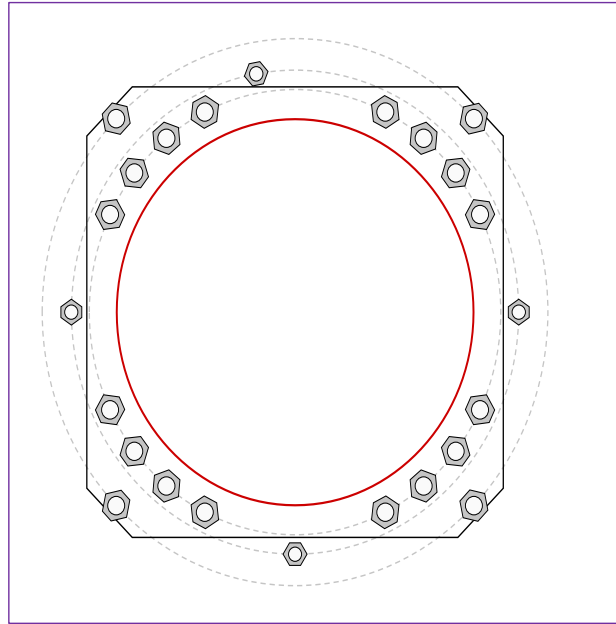


Site Info	
BU #	876334
Site Name	Southington, Smoron
Order #	582736 Rev. 0

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	Yes
$I_{ar}$ (in)	0

Applied Loads	
Moment (kip-ft)	5109.98
Axial Force (kips)	83.88
Shear Force (kips)	47.50

\*TIA-222-H Section 15.5 Applied



Connection Properties	Analysis Results
-----------------------	------------------

**Anchor Rod Data**

GROUP 1: (16) 2-1/4"  $\phi$  bolts (A615-75 N;  $F_y=75$  ksi,  $F_u=100$  ksi) on 54.375" BC  
*Anchor Spacing: 6 in*

GROUP 2: (4) 1-3/4"  $\phi$  bolts (F1554-105 N;  $F_y=105$  ksi,  $F_u=125$  ksi) on 59.1" BC  
*pos. (deg): 0, 100, 180, 270*

GROUP 3: (4) 2-1/4"  $\phi$  bolts (A193 Gr. B7 N;  $F_y=105$  ksi,  $F_u=125$  ksi) on 66.8125" BC

**Base Plate Data**

55" W x 3" Plate (A572-50;  $F_y=50$  ksi,  $F_u=65$  ksi); Clip: 6 in

**Stiffener Data**

N/A

**Pole Data**

47.1" x 0.375" 12-sided pole (A607-65;  $F_y=65$  ksi,  $F_u=80$  ksi)

**Anchor Rod Summary** *(units of kips, kip-in)*

GROUP 1:			
$P_{u,t} = 178.9$	$\phi P_{n,t} = 243.75$		<b>Stress Rating</b>
$V_u = 2.97$	$\phi V_n = 149.1$		<b>69.9%</b>
$M_u = n/a$	$\phi M_n = n/a$		<b>Pass</b>
GROUP 2:			
$P_{u,t} = 115.83$	$\phi P_{n,t} = 178.13$		<b>Stress Rating</b>
$V_u = 0$	$\phi V_n = 112.75$		<b>61.9%</b>
$M_u = n/a$	$\phi M_n = n/a$		<b>Pass</b>
GROUP 3:			
$P_{u,t} = 226.19$	$\phi P_{n,t} = 304.69$		<b>Stress Rating</b>
$V_u = 0$	$\phi V_n = 186.38$		<b>70.7%</b>
$M_u = n/a$	$\phi M_n = n/a$		<b>Pass</b>

**Base Plate Summary**

Max Stress (ksi):	30.15	(Flexural)
Allowable Stress (ksi):	45	
Stress Rating:	<b>63.8%</b>	<b>Pass</b>

## Drilled Pier Foundation

BU # :	876334
Site Name:	Southington, Smoron
Order Number:	582736 Rev. 0
TIA-222 Revision:	H
Tower Type:	Monopole



Applied Loads		
	Comp.	Uplift
Moment (kip-ft)	5109.99	
Axial Force (kips)	83.91	
Shear Force (kips)	47.44	

Material Properties	
Concrete Strength, f'c:	3 ksi
Rebar Strength, Fy:	60 ksi
Tie Yield Strength, Fyt:	40 ksi

Pier Design Data	
Depth	20.5 ft
Ext. Above Grade	1 ft
Pier Section 1	
<i>From 1' above grade to 3' below grade</i>	
Pier Diameter	26.04675 ft
Rebar Quantity	32
Rebar Size	11
Clear Cover to Ties	100.5 in
Tie Size	5
Tie Spacing	6 in

Rebar & Pier Options

Embedded Pole Inputs

Belled Pier Inputs

Pier Section 2	
<i>From 3' below grade to 20.5' below grade</i>	
Pier Diameter	7 ft
Rebar Quantity	32
Rebar Size	11
Clear Cover to Ties	4 in
Tie Size	5
Tie Spacing	18 in

Analysis Results		
<b>Soil Lateral Check</b>		
	Compression	Uplift
D <sub>v=0</sub> (ft from TOC)	6.01	-
Soil Safety Factor	1.40	-
Max Moment (kip-ft)	5362.87	-
Rating*	90.6%	-
<b>Soil Vertical Check</b>		
	Compression	Uplift
Skin Friction (kips)	277.73	-
End Bearing (kips)	1663.01	-
Weight of Concrete (kips)	504.78	-
Total Capacity (kips)	1940.74	-
Axial (kips)	588.69	-
Rating*	28.9%	-
<b>Reinforced Concrete Flexure</b>		
	Compression	Uplift
Critical Depth (ft from TOC)	5.82	-
Critical Moment (kip-ft)	5362.22	-
Critical Moment Capacity	8107.08	-
Rating*	63.0%	-
<b>Reinforced Concrete Shear</b>		
	Compression	Uplift
Critical Depth (ft from TOC)	16.50	-
Critical Shear (kip)	795.50	-
Critical Shear Capacity	2493.80	-
Rating*	30.4%	-

Check Limitation	
Apply TIA-222-H Section 15.5:	<input checked="" type="checkbox"/>
N/A	<input type="checkbox"/>
Additional Longitudinal Rebar	
Input Effective Depths (else Actual):	<input type="checkbox"/>
Shear Design Options	
Check Shear along Depth of Pier:	<input checked="" type="checkbox"/>
Utilize Shear-Friction Methodology:	<input checked="" type="checkbox"/>
Override Critical Depth:	<input type="checkbox"/>

[Go to Soil Calculations](#)

Structural Foundation Rating*	63.0%
Soil Interaction Rating*	90.6%

\*Rating per TIA-222-H Section 15.5

Shear-Friction Methodology is Applied

Soil Profile													
Groundwater Depth	N/A			# of Layers	9								

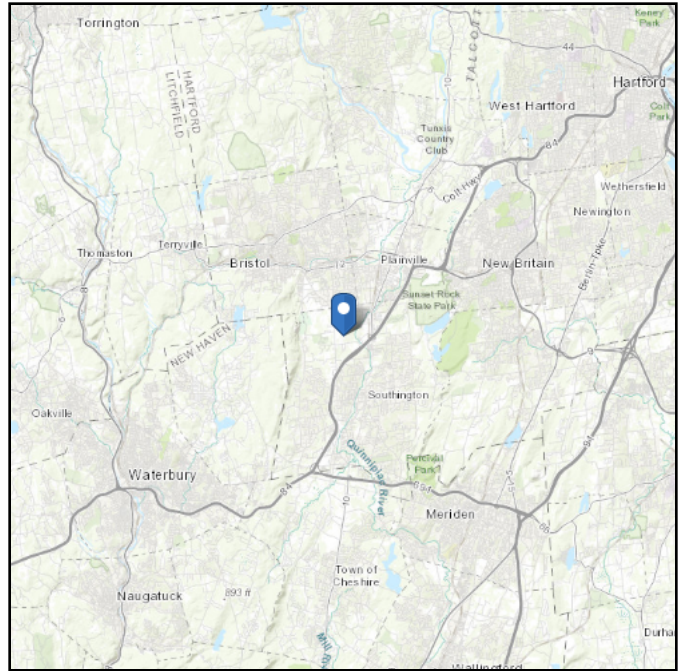
Layer	Top (ft)	Bottom (ft)	Thickness (ft)	γ <sub>soil</sub> (pcf)	γ <sub>concrete</sub> (pcf)	Cohesion (ksf)	Angle of Friction (degrees)	Calculated Ultimate Skin Friction Comp (ksf)	Calculated Ultimate Skin Friction Uplift (ksf)	Ultimate Skin Friction Comp Override (ksf)	Ultimate Skin Friction Uplift Override (ksf)	Ult. Net Bearing Capacity (ksf)	SPT Blow Count	Soil Type
1	0	1	1	100	150	0	0	0.000	0.000	0.00	0.00			Cohesionless
2	1	2	1	110	150	0	0	0.000	0.000	0.00	0.00			Cohesionless
3	2	3.3	1.3	130	150	0	0	0.000	0.000	0.00	0.00			Cohesionless
4	3.3	5	1.7	130	150	0	36	0.000	0.000	0.00	0.00			Cohesionless
5	5	6	1	130	150	0	36	0.000	0.000	0.65	0.65			Cohesionless
6	6	8	2	120	150	0	30	0.000	0.000	0.90	0.90			Cohesionless
7	8	12.4	4.4	130	150	0	36	0.00	0.00	1.38	1.38			Cohesionless
8	12.4	14.5	2.1	145	150	0	40	0.00	0.00	3.97	3.97			Cohesionless
9	14.5	20.5	6	145	150	0	40	0.00	0.00	0.00	0.00	54.9		Cohesionless

# ASCE 7 Hazards Report

**Address:**  
No Address at This Location

**Standard:** ASCE/SEI 7-10  
**Risk Category:** II  
**Soil Class:** D - Stiff Soil

**Elevation:** 296.07 ft (NAVD 88)  
**Latitude:** 41.632472  
**Longitude:** -72.89425



## Wind

### Results:

Wind Speed:	121 Vmph
10-year MRI	76 Vmph
25-year MRI	86 Vmph
50-year MRI	92 Vmph
100-year MRI	99 Vmph

125 Mph Ultimate Windspeed Used Per Southington City Amendments

**Data Source:** ASCE/SEI 7-10, Fig. 26.5-1A and Figs. CC-1–CC-4, and Section 26.5.2, incorporating errata of March 12, 2014

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-10 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

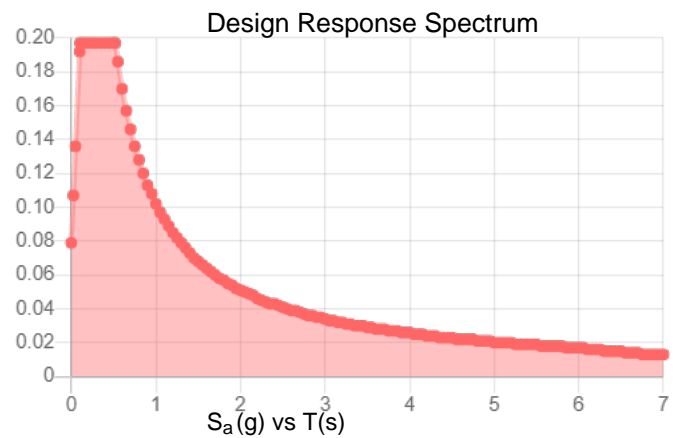
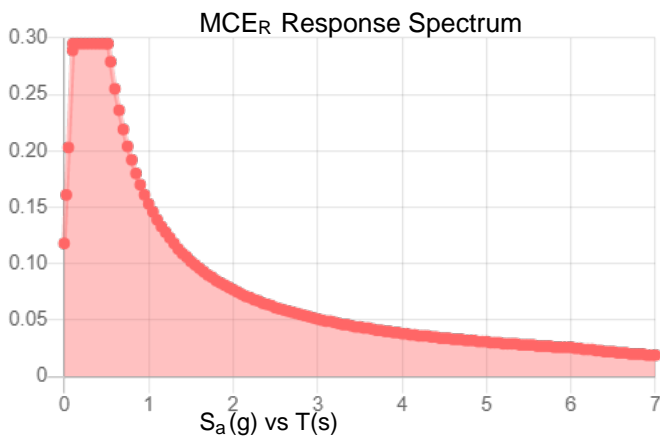
Site is in a hurricane-prone region as defined in ASCE/SEI 7-10 Section 26.2. Glazed openings need not be protected against wind-borne debris.

**Site Soil Class:** D - Stiff Soil

**Results:**

$S_S$ :	0.185	$S_{DS}$ :	0.197
$S_1$ :	0.064	$S_{D1}$ :	0.102
$F_a$ :	1.6	$T_L$ :	6
$F_v$ :	2.4	PGA :	0.094
$S_{MS}$ :	0.295	PGA <sub>M</sub> :	0.151
$S_{M1}$ :	0.153	F <sub>PGA</sub> :	1.6
		$I_e$ :	1

**Seismic Design Category** B



**Data Accessed:**

Fri Aug 20 2021

**Date Source:**

USGS Seismic Design Maps based on ASCE/SEI 7-10, incorporating Supplement 1 and errata of March 31, 2013, and ASCE/SEI 7-10 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-10 Ch. 21 are available from USGS.

## Ice

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### Results:

Ice Thickness: 1.00 in.

Concurrent Temperature: 5 F

Gust Speed: 50 mph

**Data Source:** Standard ASCE/SEI 7-10, Figs. 10-2 through 10-8

**Date Accessed:** Fri Aug 20 2021

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 50-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

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