STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL
Ten Franklin Square, New Britain, CT 06051
Phone: (860) 827-2935 Fax: (860) 827-2950
E-Mail: siting.council@ct.gov
Web Site: portal.ct.gov/csc

VIA ELECTRONIC MAIL

September 9, 2022

Katie Adams
SR Site Acquisition Specialist
Network Building & Consulting
100 Apollo Drive, Suite 303
Chelmsford, MA 01824
kadams@nbcllc.com

RE: **EM-AT&T-151-220727** – AT&T notice of intent to modify an existing telecommunications facility located at 150 Mattatuck Heights, Waterbury, Connecticut.

Dear Ms. Adams:

The Connecticut Siting Council (Council) is in receipt of your correspondence of September 9, 2022 submitted in response to the Council's August 16, 2022 notification of an incomplete request for exempt modification with regard to the above-referenced matter.

The submission renders the request for exempt modification complete and the Council will process the request in accordance with the Federal Communications Commission 60-day timeframe.

Thank you for your attention and cooperation.

Sincerely,

Melanie A. Bachman
Executive Director

MAB/RDM/emr

From: Katie Adams <kadams@nbcllc.com>
Sent: Friday, September 9, 2022 9:03 AM
To: Robidoux, Evan <Evan.Robidoux@ct.gov>
Cc: CSC-DL Siting Council <Siting.Council@ct.gov>
Subject: RE: Council Incomplete Letter for EM-AT&T-151-220707 (150 Mattatuck Heights, Waterbury)

Good morning,

Please see the attached Structural Analysis. This analysis was run for T-Mobiles proposed equipment, however it incorporates all of the AT&T proposed equipment for EM-AT&T-151-220707 as well. Please let me know if there is anything else you need in order to continue processing the application.

Thank you,

Katie Adams
SR Site Acquisition Specialist

NETWORK BUILDING + CONSULTING
100 Apollo Drive | Suite 303 | Chelmsford, MA | 01824
M 781-392-7547

Date: **May 09, 2022**

B+T Group
1717 S. Boulder, Suite 300
Tulsa, OK 74119
(918) 587-4630

Subject:	**Structural Analysis Report**	
Carrier Designation:	***T-Mobile* Co-Locate**	
	Site Number:	CT11269B
	Site Name:	Waterbury/I-84/Mattatuck
Crown Castle Designation:	**BU Number:**	876317
	Site Name:	Waterbury
	JDE Job Number:	715098
	Work Order Number:	2108881
	Order Number:	614658 Rev. 0
Engineering Firm Designation:	**B+T Group Project Number:**	79982.012.01
Site Data:	**150 Mattatuck Heights, Waterbury, New Haven County, CT** **Latitude *41° 32' 16.3"*, Longitude *-72° 59' 6.1"*** **144.25 Foot - Monopole Tower**	

B+T Group 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 – 99.4%**

This analysis utilizes an ultimate 3-second gust wind speed of 118 mph as required by the 2018 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Massood Sattari

Respectfully submitted by: B+T Engineering, Inc.
COA: PEC.0001564; Expires: 02/01/2023

Chad E. Tuttle, P.E.

tnxTower Report - version 8.1.1.0

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1) INTRODUCTION

This tower is a 134.25 ft. Monopole tower designed by Valmont. A 10-ft tower extension has been considered in this analysis, bringing the total tower height to 144.25 ft.

The tower has been modified multiple times to accommodate additional loading.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	118 mph
Exposure Category:	B
Topographic Factor:	1
Ice Thickness:	1 in
Wind Speed with Ice:	50 mph
Service Wind Speed:	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)
100.0	101.0	3	Ericsson	AIR -32 B2A/B66AA	2 1	1-1/2 1-5/8
		3	Ericsson	AIR 6419 B41_TMO		
		3	Ericsson	RADIO 4449 B71 B85A_T-MOBILE		
		3	Ericsson	RADIO 4460 B2/B25 B66_TMO		
		3	RFS Celwave	APXVAARR24_43-U-NA20		
	100.0	1	Site Pro1	HRK12 Support Rail Kit		
		1	--	Platform Mount [LP 303-1]		

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)
144.0	145.0	3	Ericsson	AIR 6419 B77G_CCIV3	6 3 1	13/16 3/8 7/8
	144.0	3	--	2” Std. x 10’ long mount pipe		
		1	Site Pro 1	F3P-12W		
		1	--	Miscellaneous [NA 507-1]		
	143.0	3	Ericsson	2012 B29		
		3	Ericsson	RADIO 4415 B30		
		3	Ericsson	RRUS 4449 B5/B12		
		3	Ericsson	RRUS 4478 B14		
		3	Ericsson	RRUS 8843 B2/B66A		
		3	Kmw Comm.	EPBQ-654L8H8-L2		
		3	Quintel Tech.	QD8616-7		
		2	Raycap	DC6-48-60-18-8F		
		1	Raycap	DC9-48-60-24-8C-EV		
	141.0	3	Ericsson	AIR 6449 B77D_CCVI2		
130.0	133.0	1	Andrew	VHLP2-18	3	1-1/4

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
		2	Andrew	VHLP2-23	3 1	Elliptical 1-1/2
	130.0	6	Alcatel Lucent	1900MHZ RRH (65MHZ)		
		3	Alcatel Lucent	800 EXTERNAL NOTCH FILTER		
		3	Alcatel Lucent	800MHZ RRH		
		3	Nokia	AAHC		
		4	RFS Celwave	APXVSPP18-C-A20		
		4	RFS Celwave	IBC1900HB-2		
		2	RFS Celwave	PD2DE-700/2700		
		1	--	Pipe Mount [PM 601-3]		
		1	--	Platform Mount [LP 602-1]		
120.0	120.0	3	Fujitsu	TA08025-B604	1	1-1/2
		3	Fujitsu	TA08025-B605		
		3	Jma Wireless	MX08FRO665-21		
		1	Raycap	RDIDC-9181-PF-48		
		1	--	Commscope MC-PK8-DSH		
110.0	113.0	1	Trimble	BULLET III	6 2 1	1-5/8 1-1/4 1/2
	110.0	3	Commscope	BSAMNT-SBS-1-2		
		6	Andrew	SBNHH-1D65B		
		3	Antel	BXA-80063/4CF		
		1	Raycap	RVZDC-6627-PF-48		
		3	Samsung Telecom.	MT6407-77A		
		3	Samsung Telecom.	RFV01U-D1A		
		3	Samsung Telecom.	RFV01U-D2A		
		1	--	Platform Mount [LP 713-1]		
50.0	51.0	1	Lucent	KS24019-L112A	1	1/2
	50.0	1	--	Side Arm Mount [SO 701-1]		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
Tower Manufacturer Drawing	1530953	CCI Sites
Tower Modification Drawing	2381113	CCI Sites
Post Modification Inspection	2381112	CCI Sites
Tower Modification Drawing	3315244	CCI Sites
Post Modification Inspection	3770745	CCI Sites
Tower Modification Drawing	8142142	CCI Sites
Post Modification Inspection	8624542	CCI Sites
Foundation Drawing	1630930	CCI Sites

Document	Reference	Source
Geotech Report	1529737	CCI Sites
Crown CAD Package	Date: 04/27/2022	CCI Sites

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 included in Appendix C.

3.2) Assumptions

1) The 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. B+T Group 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	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L1	144.25 - 139.25	Pole	TP12.75x12.75x0.375	1	-4.510	--	13.9	Pass
L2	139.25 - 134.75	Pole	TP12.75x12.75x0.375	2	-4.793	--	28.5	Pass
L3	134.75 - 134.25	Pole	TP13.48x13.48x0.375	3	-4.828	--	26.9	Pass
L4	134.25 - 129.25	Pole	TP14.466x13.48x0.1875	4	-8.608	--	54.2	Pass
L5	129.25 - 124.25	Pole	TP15.452x14.466x0.1875	5	-8.883	--	73.2	Pass
L6	124.25 - 123.42	Pole	TP15.616x15.452x0.1875	6	-8.944	--	75.9	Pass
L7	123.42 - 123.17	Pole + Reinf.	TP15.665x15.616x0.5375	7	-8.982	--	49.5	Pass
L8	123.17 - 118.17	Pole + Reinf.	TP16.651x15.665x0.5125	8	-12.422	--	62.6	Pass
L9	118.17 - 113.17	Pole + Reinf.	TP17.637x16.651x0.4875	9	-13.025	--	76.1	Pass
L10	113.17 - 109.5	Pole + Reinf.	TP18.36x17.637x0.475	10	-16.653	--	85.8	Pass
L11	109.5 - 109.25	Pole + Reinf.	TP18.409x18.36x0.5875	11	-16.708	--	72.3	Pass
L12	109.25 - 104.75	Pole + Reinf.	TP19.296x18.409x0.5625	12	-17.438	--	84.2	Pass
L13	104.75 - 104.5	Pole + Reinf.	TP19.346x19.296x0.775	13	-17.503	--	68.0	Pass
L14	104.5 -	Pole + Reinf.	TP19.756x19.346x0.7625	14	-17.935	--	72.2	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
	102.42							
L15	102.42 - 102.17	Pole + Reinf.	TP19.806x19.756x0.5625	15	-17.994	--	90.1	Pass
L16	102.17 - 98.75	Pole + Reinf.	TP20.479x19.806x0.55	16	-22.016	--	99.1	Pass
L17	98.75 - 98.5	Pole + Reinf.	TP20.528x20.479x0.8375	17	-22.098	--	86.7	Pass
L18	98.5 - 97.5	Pole + Reinf.	TP20.726x20.528x0.8375	18	-22.351	--	75.4	Pass
L19	97.5 - 97.25	Pole + Reinf.	TP20.775x20.726x0.75	19	-22.422	--	87.8	Pass
L20	97.25 - 95.55	Pole + Reinf.	TP21.81x20.775x0.7375	20	-22.837	--	91.7	Pass
L21	95.55 - 90.55	Pole + Reinf.	TP21.73x20.735x0.8	21	-24.893	--	95.4	Pass
L22	90.55 - 89.25	Pole + Reinf.	TP21.989x21.73x0.775	22	-25.253	--	97.7	Pass
L23	89.25 - 89	Pole + Reinf.	TP22.039x21.989x1	23	-25.346	--	84.4	Pass
L24	89 - 88.25	Pole + Reinf.	TP22.189x22.039x0.975	24	-25.575	--	70.6	Pass
L25	88.25 - 88	Pole + Reinf.	TP22.238x22.189x0.7625	25	-25.647	--	80.8	Pass
L26	88 - 87.83	Pole + Reinf.	TP22.272x22.238x0.7625	26	-25.694	--	81.0	Pass
L27	87.83 - 87.58	Pole + Reinf.	TP22.321x22.272x0.675	27	-25.754	--	85.9	Pass
L28	87.58 - 82.58	Pole + Reinf.	TP23.317x22.321x0.65	28	-26.997	--	92.7	Pass
L29	82.58 - 77.58	Pole + Reinf.	TP24.312x23.317x0.625	29	-28.278	--	98.7	Pass
L30	77.58 - 77	Pole + Reinf.	TP24.428x24.312x0.625	30	-28.437	--	99.4	Pass
L31	77 - 76.75	Pole + Reinf.	TP24.478x24.428x0.825	31	-28.520	--	93.2	Pass
L32	76.75 - 76.33	Pole + Reinf.	TP24.561x24.478x0.825	32	-28.644	--	93.7	Pass
L33	76.33 - 76.08	Pole + Reinf.	TP24.611x24.561x0.825	33	-28.718	--	94.8	Pass
L34	76.08 - 74.25	Pole + Reinf.	TP24.976x24.611x0.8	34	-29.230	--	96.8	Pass
L35	74.25 - 74	Pole + Reinf.	TP25.026x24.976x0.8875	35	-29.327	--	85.5	Pass
L36	74 - 73.75	Pole + Reinf.	TP25.076x25.026x0.8875	36	-29.403	--	85.7	Pass
L37	73.75 - 73.5	Pole + Reinf.	TP25.125x25.076x0.9125	37	-29.482	--	84.9	Pass
L38	73.5 - 68.5	Pole + Reinf.	TP26.121x25.125x0.875	38	-31.044	--	89.5	Pass
L39	68.5 - 63.5	Pole + Reinf.	TP27.116x26.121x0.85	39	-32.637	--	93.7	Pass
L40	63.5 - 60.5	Pole + Reinf.	TP27.714x27.116x0.825	40	-33.607	--	96.1	Pass
L41	60.5 - 60.25	Pole + Reinf.	TP27.763x27.714x0.825	41	-33.698	--	96.3	Pass
L42	60.25 - 59.5	Pole + Reinf.	TP27.913x27.763x0.825	42	-33.935	--	96.9	Pass
L43	59.5 - 59.25	Pole + Reinf.	TP27.962x27.913x0.8875	43	-34.027	--	90.6	Pass
L44	59.25 - 54.25	Pole + Reinf.	TP28.958x27.962x0.85	44	-35.723	--	94.1	Pass
L45	54.25 - 50	Pole + Reinf.	TP30.64x28.958x0.8375	45	-37.194	--	96.9	Pass
L46	50 - 44.8	Pole + Reinf.	TP30.333x29.304x0.8375	46	-40.327	--	98.7	Pass
L47	44.8 - 43.58	Pole + Reinf.	TP30.574x30.333x0.8375	47	-40.762	--	99.3	Pass
L48	43.58 - 43.33	Pole + Reinf.	TP30.624x30.574x0.85	48	-40.869	--	98.4	Pass
L49	43.33 - 43.17	Pole + Reinf.	TP30.657x30.624x0.85	49	-40.934	--	98.5	Pass
L50	43.17 - 42.92	Pole + Reinf.	TP30.706x30.657x0.9375	50	-41.032	--	93.2	Pass
L51	42.92 - 39	Pole + Reinf.	TP31.481x30.706x0.9125	51	-42.568	--	95.1	Pass
L52	39 - 38.75	Pole + Reinf.	TP31.531x31.481x0.95	52	-42.586	--	89.9	Pass
L53	38.75 - 37.17	Pole + Reinf.	TP31.844x31.531x0.9375	53	-42.704	--	90.6	Pass
L54	37.17 - 36.92	Pole + Reinf.	TP31.894x31.844x0.8875	54	-43.346	--	94.1	Pass
L55	36.92 - 34	Pole + Reinf.	TP32.471x31.894x0.8875	55	-43.462	--	95.4	Pass
L56	34 - 33.75	Pole + Reinf.	TP32.52x32.471x0.875	56	-44.629	--	95.4	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L57	33.75 - 29.75	Pole + Reinf.	TP33.312x32.52x0.8625	57	-44.736	--	97.0	Pass
L58	29.75 - 29.5	Pole + Reinf.	TP33.361x33.312x0.8625	58	-46.295	--	96.0	Pass
L59	29.5 - 24.5	Pole + Reinf.	TP34.351x33.361x0.85	59	-46.404	--	97.8	Pass
L60	24.5 - 23	Pole + Reinf.	TP34.648x34.351x0.8375	60	-48.406	--	98.4	Pass
L61	23 - 22.75	Pole + Reinf.	TP34.697x34.648x0.9625	61	-48.997	--	91.2	Pass
L62	22.75 - 21.58	Pole + Reinf.	TP34.928x34.697x0.9625	62	-49.116	--	91.6	Pass
L63	21.58 - 21.33	Pole + Reinf.	TP34.978x34.928x0.85	63	-49.620	--	96.7	Pass
L64	21.33 - 16.33	Pole + Reinf.	TP35.967x34.978x0.8375	64	-49.735	--	98.2	Pass
L65	16.33 - 12.92	Pole + Reinf.	TP36.644x35.967x0.825	65	-51.856	--	99.2	Pass
L66	12.92 - 12.67	Pole + Reinf.	TP36.693x36.644x0.9125	66	-53.310	--	89.9	Pass
L67	12.67 - 12.5	Pole + Reinf.	TP36.726x36.693x0.9125	67	-53.426	--	90.0	Pass
L68	12.5 - 12.25	Pole + Reinf.	TP36.776x36.726x0.7625	68	-53.505	--	93.3	Pass
L69	12.25 - 12	Pole + Reinf.	TP36.825x36.776x0.7625	69	-53.610	--	93.4	Pass
L70	12 - 11.75	Pole + Reinf.	TP36.874x36.825x0.6625	70	-53.715	--	95.5	Pass
L71	11.75 - 8.5	Pole + Reinf.	TP37.518x36.874x0.65	71	-53.827	--	96.2	Pass
L72	8.5 - 8.25	Pole + Reinf.	TP37.567x37.518x0.925	72	-55.112	--	78.9	Pass
L73	8.25 - 7	Pole + Reinf.	TP37.815x37.567x0.9125	73	-55.242	--	79.2	Pass
L74	7 - 6.75	Pole + Reinf.	TP37.864x37.815x0.8125	74	-55.832	--	91.7	Pass
L75	6.75 - 1.75	Pole + Reinf.	TP38.854x37.864x0.7875	75	-55.950	--	92.9	Pass
L76	1.75 - 0	Pole + Reinf.	TP39.2x38.854x0.7875	76	-58.133	--	93.3	Pass
							Summary	
						Pole (L6)	85.4	Pass
						Reinforcement	99.4	Pass
						Rating =	99.4	Pass

Table 5 - Tower Component Stresses vs. Capacity – LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1,2	Flange Connection	134.25	42.6	Pass
1,2	Anchor Rods	Base	92.9	Pass
1,2	Base Plate	Base	64.4	Pass
1,2	Base Foundation (Structure)	Base	22.0	Pass
1,2	Base Foundation (Soil Interaction)	Base	90.1	Pass

Structure Rating (max from all components) =	99.4%

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.

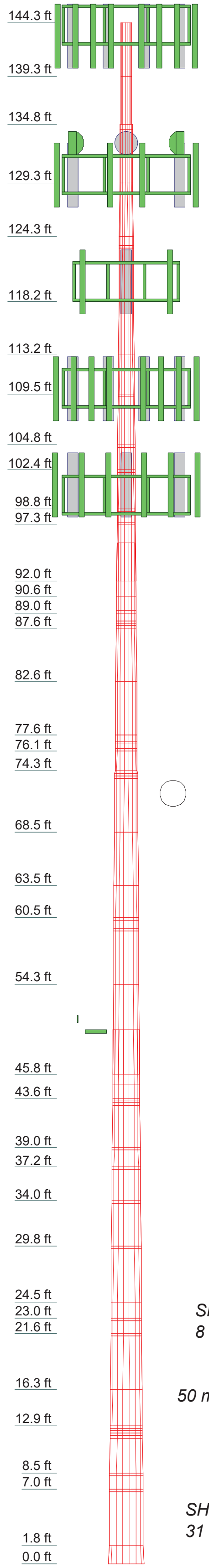
4.1) Recommendations

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	5.000	0	0.375		12.750	12.750	A500-46	0.2
2	[illegible]	0	0.375		12.750	12.750		0.2
3	[illegible]	0	[illegible]		[illegible]	[illegible]		0.0
4	5.000	12	0.188		13.483	14.468		0.1
5	[illegible]	12	0.188		14.466	15.452		0.2
6–7	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]		[illegible]
8	5.000	12	0.512		[illegible]	[illegible]		0.4
9	5.000	12	0.487		16.651	17.637		0.4
10–19	[illegible]	12	[illegible]		[illegible]	[illegible]		[illegible]
20	[illegible]	12	[illegible]	3.552	[illegible]	[illegible]		0.9
21–27	[illegible]	12	[illegible]		[illegible]	[illegible]		[illegible]
28	5.000	12	[illegible]		[illegible]	[illegible]		0.8
29	5.000	12	0.625		23.317	24.312		0.8
30–37	[illegible]	12	[illegible]		[illegible]	[illegible]		[illegible]
38	5.000	12	[illegible]		[illegible]	[illegible]		1.1
39	5.000	12	0.850		26.121	27.116	A572-65	1.1
40–43	[illegible]	12	[illegible]		[illegible]	[illegible]		[illegible]
44	5.000	12	[illegible]		[illegible]	[illegible]		1.2
45	8.448	12	0.838	4.198	28.958	30.640		2.1
46–58	[illegible]	12	[illegible]		[illegible]	[illegible]		[illegible]
59	5.000	12	0.850		[illegible]	[illegible]		1.4
60–63	[illegible]	12	[illegible]		[illegible]	[illegible]		[illegible]
64	5.000	12	[illegible]		[illegible]	[illegible]		1.5
65–74	[illegible]	12	[illegible]		[illegible]	[illegible]		[illegible]
75	5.000	12	0.787		[illegible]	[illegible]		1.6
76	1.750	12	0.787		[illegible]	39.20		0.6
								29.5



MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A500-46	46 ksi	62 ksi	A572-65	65 ksi	80 ksi

TOWER DESIGN NOTES

1. Tower is located in New Haven County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-H Standard.
3. Tower designed for a 118 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.00 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 0.000 ft
8. TIA-222-H Annex S
9. TOWER RATING:99.4%

ALL REACTIONS ARE FACTORED

AXIAL 89 K
SHEAR 8 K
MOMENT 879 kip-ft
TORQUE 0 kip-ft
50 mph WIND - 1.000 in ICE

AXIAL 60 K
SHEAR 31 K
MOMENT 3350 kip-ft
TORQUE 1 kip-ft
REACTIONS - 118 mph WIND

B+T Group
1717 S. Boulder, Suite 300
Tulsa, OK 74119
Phone: (918) 587-4630
FAX: (918) 295-0265

Job: **79982.012.01 - WATERBURY,CT (BU# 876317**		
Project:		
Client: Crown Castle	Drawn by: Jayaraj B	App'd:
Code: TIA-222-H	Date: 05/09/22	Scale: NTS
Path:		Dwg No. E-1

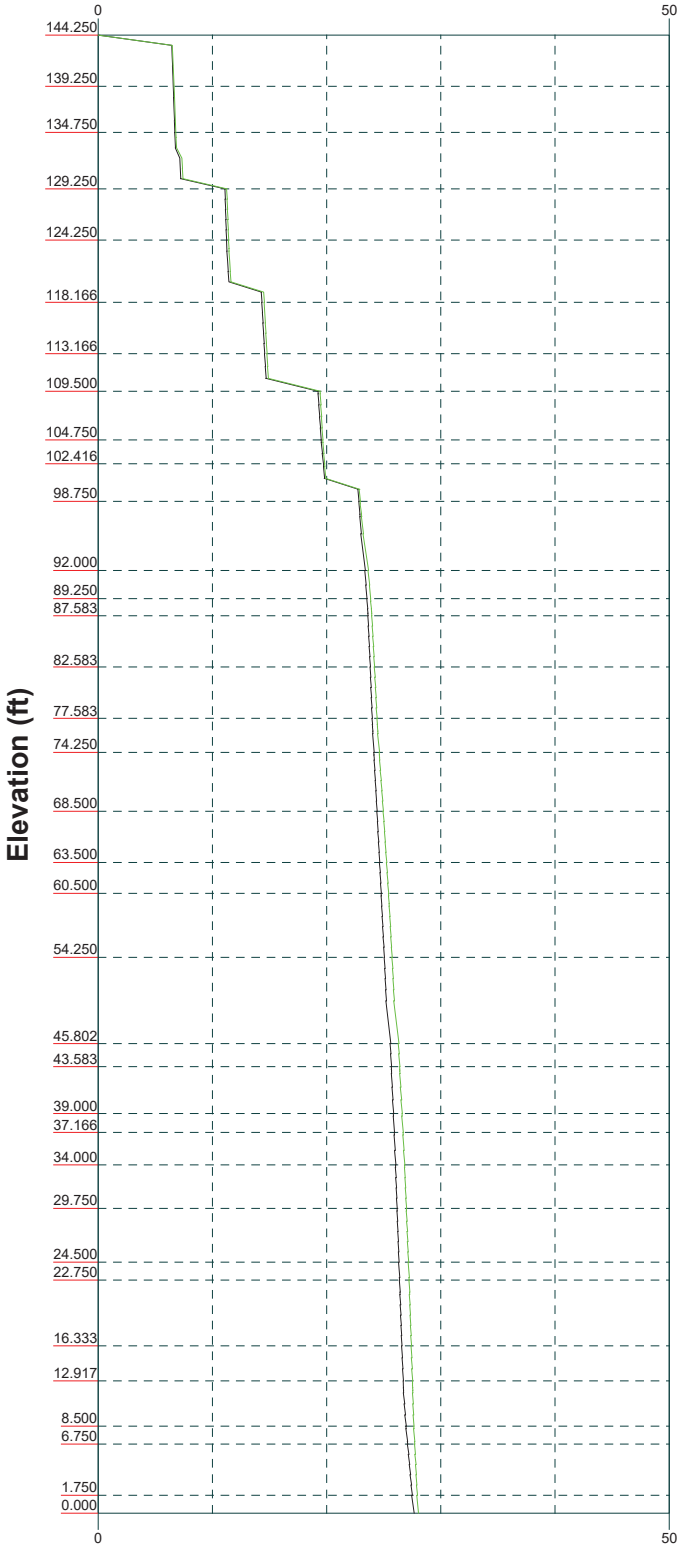
TIA-222-H - 118 mph/50 mph 1.000 in Ice Exposure B

Vx Vz

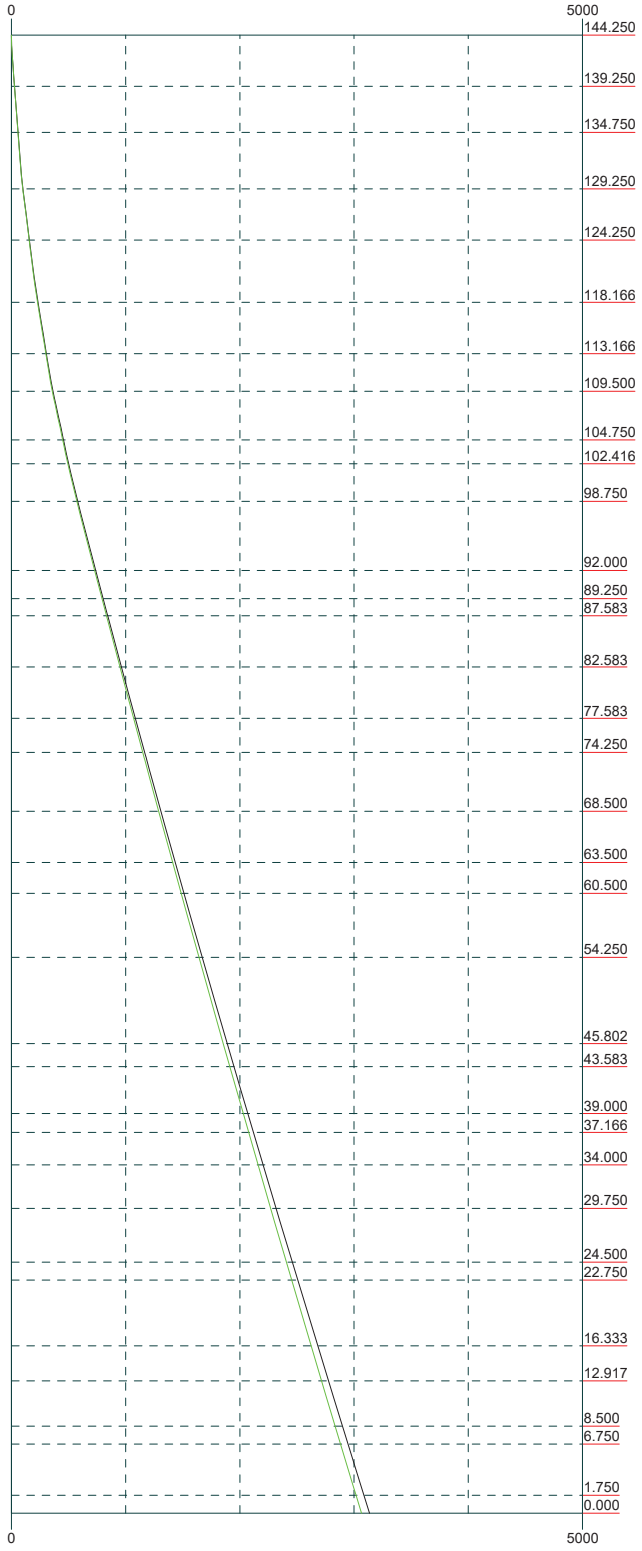
Maximum Values

Mx Mz

Global Mast Shear (K)



Global Mast Moment (kip-ft)



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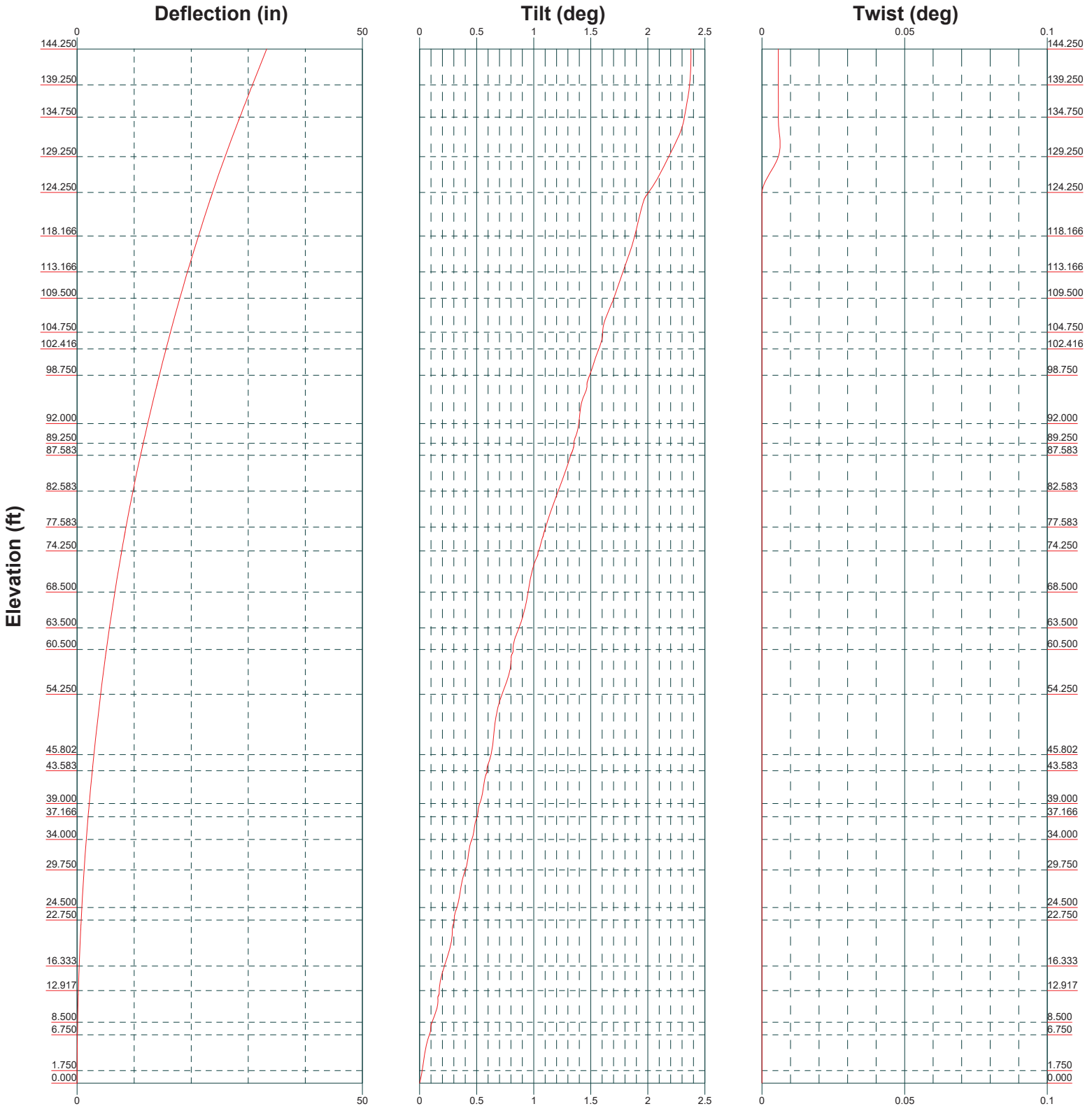
Job: 79982.012.01 - WATERBURY,CT (BU# 876317			
Project:			
Client: Crown Castle	Drawn by: Jayaraj B	App'd:	
Code: TIA-222-H	Date: 05/09/22	Scale: NTS	
Path:		Dwg No. E-4	

TIA-222-H - Service - 60 mph

Maximum Values



B+T GRP

B+T Group
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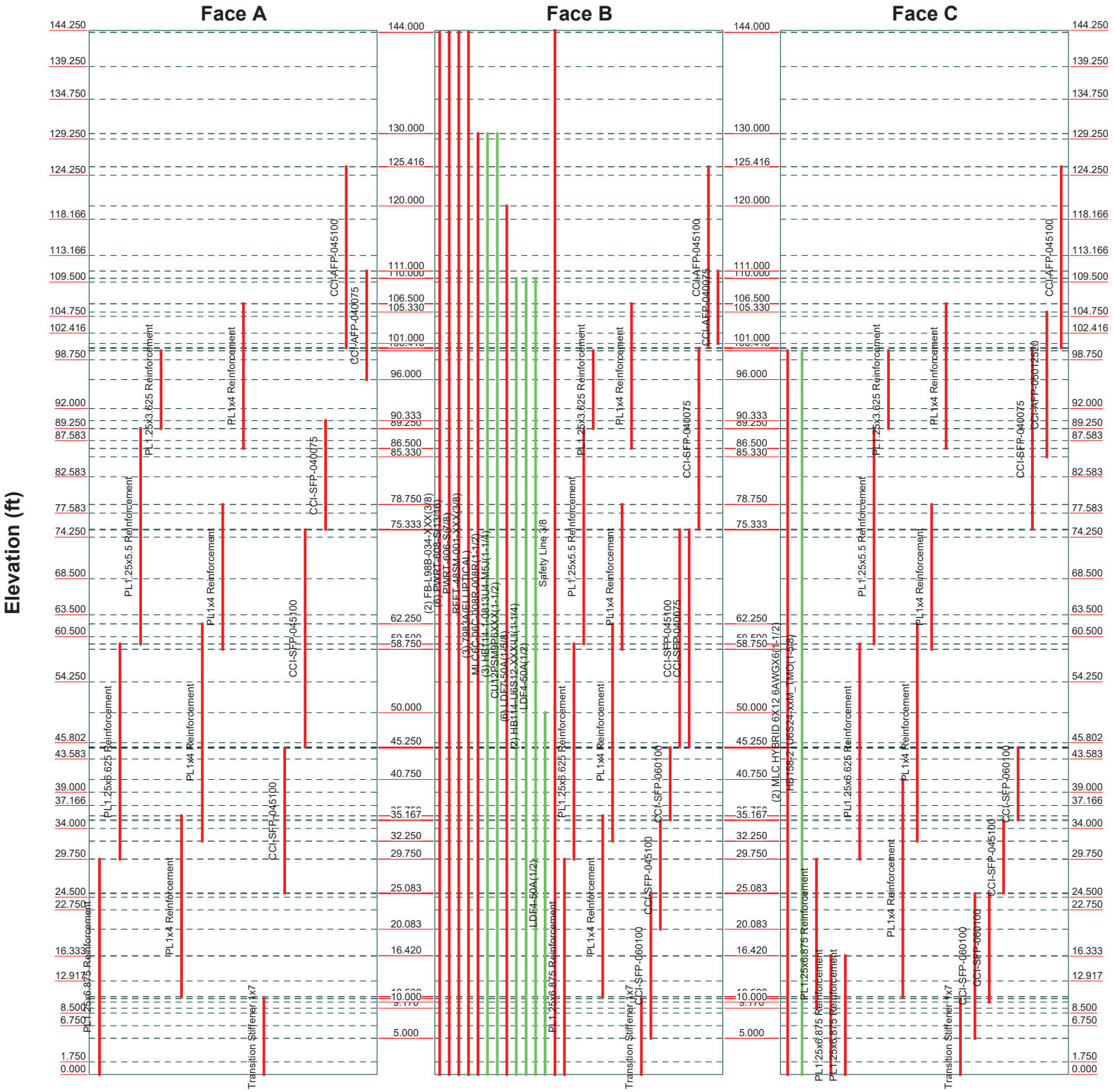
Phone: (918) 587-4630
FAX: (918) 295-0265

Job: *79982.012.01 - WATERBURY,CT (BU# 876317*		
Project:		
Client: Crown Castle	Drawn by: Jayaraj B	App'd:
Code: TIA-222-H	Date: 05/09/22	Scale: NTS
Path:		Dwg No. E-5

Feed Line Distribution Chart
0' - 144'3"

Round | Flat | App In Face | App Out Face | Truss Leg



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Job: 79982.012.01 - WATERBURY,CT (BU# 876317			
Project:			
Client: Crown Castle	Drawn by: Jayaraj B	App'd:	
Code: TIA-222-H	Date: 05/09/22	Scale: NTS	
Path:		Dwg No. E-7	

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 New Haven County, Connecticut.
Tower base elevation above sea level: 660.000 ft.
Basic wind speed of 118 mph.
Risk Category II.
Exposure Category B.
Simplified Topographic Factor Procedure for wind speed-up calculations is used.
Topographic Category: 1.
Crest Height: 0.000 ft.
Nominal ice thickness of 1.000 in.
Ice thickness is considered to increase with height.
Ice density of 56.000 pcf.
A wind speed of 50 mph is used in combination with ice.
Temperature drop of 50.000 °F.
Deflections calculated using a wind speed of 60 mph.
TIA-222-H Annex S.
TOWER RATING:99.4%.
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

	Consider Moments - Legs		Distribute Leg Loads As Uniform		Use ASCE 10 X-Brace Ly Rules
	Consider Moments - Horizontals		Assume Legs Pinned		Calculate Redundant Bracing Forces
	Consider Moments - Diagonals	√	Assume Rigid Index Plate		Ignore Redundant Members in FEA
	Use Moment Magnification	√	Use Clear Spans For Wind Area		SR Leg Bolts Resist Compression
√	Use Code Stress Ratios		Use Clear Spans For KL/r		All Leg Panels Have Same Allowable
√	Use Code Safety Factors - Guys		Retension Guys To Initial Tension		Offset Girt At Foundation
	Escalate Ice	√	Bypass Mast Stability Checks	√	Consider Feed Line Torque
	Always Use Max Kz	√	Use Azimuth Dish Coefficients		Include Angle Block Shear Check
	Use Special Wind Profile	√	Project Wind Area of Appurt.		Use TIA-222-H Bracing Resist. Exemption
	Include Bolts In Member Capacity		Autocalc Torque Arm Areas		Use TIA-222-H Tension Splice Exemption
	Leg Bolts Are At Top Of Section		Add IBC .6D+W Combination		Poles
	Secondary Horizontal Braces Leg		Sort Capacity Reports By Component	√	Include Shear-Torsion Interaction
	Use Diamond Inner Bracing (4 Sided)		Triangulate Diamond Inner Bracing		Always Use Sub-Critical Flow
	SR Members Have Cut Ends		Treat Feed Line Bundles As Cylinder		Use Top Mounted Sockets
	SR Members Are Concentric		Ignore KL/ry For 60 Deg. Angle Legs		Pole Without Linear Attachments
					Pole With Shroud Or No Appurtenances
					Outside and Inside Corner Radii Are Known

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	144.250-139.250	5.000	0.000	Round	12.750	12.750	0.375		A500-46 (46 ksi)
L2	139.250-134.750	4.500	0.000	Round	12.750	12.750	0.375		A500-46 (46 ksi)
L3	134.750-134.250	0.500	0.000	Round	13.480	13.480	0.375		A500-46 (46 ksi)
L4	134.250-129.250	5.000	0.000	12	13.480	14.466	0.188	0.750	A572-65 (65 ksi)
L5	129.250-124.250	5.000	0.000	12	14.466	15.452	0.188	0.750	A572-65 (65 ksi)
L6	124.250-123.416	0.834	0.000	12	15.452	15.616	0.188	0.750	A572-65 (65 ksi)
L7	123.416-123.166	0.250	0.000	12	15.616	15.665	0.537	2.150	A572-65 (65 ksi)
L8	123.166-118.166	5.000	0.000	12	15.665	16.651	0.512	2.050	A572-65 (65 ksi)
L9	118.166-113.166	5.000	0.000	12	16.651	17.637	0.487	1.950	A572-65 (65 ksi)
L10	113.166-109.500	3.666	0.000	12	17.637	18.360	0.475	1.900	A572-65 (65 ksi)
L11	109.500-109.250	0.250	0.000	12	18.360	18.409	0.588	2.350	A572-65 (65 ksi)
L12	109.250-104.750	4.500	0.000	12	18.409	19.296	0.563	2.250	A572-65 (65 ksi)
L13	104.750-104.500	0.250	0.000	12	19.296	19.346	0.775	3.100	A572-65 (65 ksi)
L14	104.500-102.416	2.084	0.000	12	19.346	19.756	0.762	3.050	A572-65 (65 ksi)
L15	102.416-102.166	0.250	0.000	12	19.756	19.806	0.563	2.250	A572-65 (65 ksi)
L16	102.166-98.750	3.416	0.000	12	19.806	20.479	0.550	2.200	A572-65 (65 ksi)
L17	98.750-98.500	0.250	0.000	12	20.479	20.528	0.838	3.350	A572-65 (65 ksi)
L18	98.500-97.500	1.000	0.000	12	20.528	20.726	0.838	3.350	A572-65 (65 ksi)
L19	97.500-97.250	0.250	0.000	12	20.726	20.775	0.750	3.000	A572-65 (65 ksi)
L20	97.250-92.000	5.250	3.552	12	20.775	21.810	0.738	2.950	A572-65 (65 ksi)
L21	92.000-90.552	5.000	0.000	12	20.735	21.730	0.800	3.200	A572-65 (65 ksi)
L22	90.552-89.250	1.302	0.000	12	21.730	21.989	0.775	3.100	A572-65 (65 ksi)
L23	89.250-89.000	0.250	0.000	12	21.989	22.039	1.000	4.000	A572-65 (65 ksi)
L24	89.000-88.250	0.750	0.000	12	22.039	22.189	0.975	3.900	A572-65 (65 ksi)
L25	88.250-88.000	0.250	0.000	12	22.189	22.238	0.762	3.050	A572-65 (65 ksi)
L26	88.000-87.833	0.167	0.000	12	22.238	22.272	0.762	3.050	A572-65 (65 ksi)
L27	87.833-87.583	0.250	0.000	12	22.272	22.321	0.675	2.700	A572-65 (65 ksi)
L28	87.583-82.583	5.000	0.000	12	22.321	23.317	0.650	2.600	A572-65 (65 ksi)

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
L29	82.583-77.583	5.000	0.000	12	23.317	24.312	0.625	2.500	A572-65 (65 ksi)
L30	77.583-77.000	0.583	0.000	12	24.312	24.428	0.625	2.500	A572-65 (65 ksi)
L31	77.000-76.750	0.250	0.000	12	24.428	24.478	0.825	3.300	A572-65 (65 ksi)
L32	76.750-76.333	0.417	0.000	12	24.478	24.561	0.825	3.300	A572-65 (65 ksi)
L33	76.333-76.083	0.250	0.000	12	24.561	24.611	0.825	3.300	A572-65 (65 ksi)
L34	76.083-74.250	1.833	0.000	12	24.611	24.976	0.800	3.200	A572-65 (65 ksi)
L35	74.250-74.000	0.250	0.000	12	24.976	25.026	0.887	3.550	A572-65 (65 ksi)
L36	74.000-73.750	0.250	0.000	12	25.026	25.076	0.887	3.550	A572-65 (65 ksi)
L37	73.750-73.500	0.250	0.000	12	25.076	25.125	0.912	3.650	A572-65 (65 ksi)
L38	73.500-68.500	5.000	0.000	12	25.125	26.121	0.875	3.500	A572-65 (65 ksi)
L39	68.500-63.500	5.000	0.000	12	26.121	27.116	0.850	3.400	A572-65 (65 ksi)
L40	63.500-60.500	3.000	0.000	12	27.116	27.714	0.825	3.300	A572-65 (65 ksi)
L41	60.500-60.250	0.250	0.000	12	27.714	27.763	0.825	3.300	A572-65 (65 ksi)
L42	60.250-59.500	0.750	0.000	12	27.763	27.913	0.825	3.300	A572-65 (65 ksi)
L43	59.500-59.250	0.250	0.000	12	27.913	27.962	0.887	3.550	A572-65 (65 ksi)
L44	59.250-54.250	5.000	0.000	12	27.962	28.958	0.850	3.400	A572-65 (65 ksi)
L45	54.250-45.802	8.448	4.198	12	28.958	30.640	0.838	3.350	A572-65 (65 ksi)
L46	45.802-44.802	5.198	0.000	12	29.304	30.333	0.838	3.350	A572-65 (65 ksi)
L47	44.802-43.583	1.219	0.000	12	30.333	30.574	0.838	3.350	A572-65 (65 ksi)
L48	43.583-43.333	0.250	0.000	12	30.574	30.624	0.850	3.400	A572-65 (65 ksi)
L49	43.333-43.166	0.167	0.000	12	30.624	30.657	0.850	3.400	A572-65 (65 ksi)
L50	43.166-42.916	0.250	0.000	12	30.657	30.706	0.938	3.750	A572-65 (65 ksi)
L51	42.916-39.000	3.916	0.000	12	30.706	31.481	0.912	3.650	A572-65 (65 ksi)
L52	39.000-38.750	0.250	0.000	12	31.481	31.531	0.950	3.800	A572-65 (65 ksi)
L53	38.750-37.166	1.584	0.000	12	31.531	31.844	0.938	3.750	A572-65 (65 ksi)
L54	37.166-36.916	0.250	0.000	12	31.844	31.894	0.887	3.550	A572-65 (65 ksi)
L55	36.916-34.000	2.916	0.000	12	31.894	32.471	0.887	3.550	A572-65 (65 ksi)
L56	34.000-33.750	0.250	0.000	12	32.471	32.520	0.875	3.500	A572-65 (65 ksi)
L57	33.750-29.750	4.000	0.000	12	32.520	33.312	0.863	3.450	A572-65 (65 ksi)
L58	29.750-29.500	0.250	0.000	12	33.312	33.361	0.863	3.450	A572-65 (65 ksi)
L59	29.500-24.500	5.000	0.000	12	33.361	34.351	0.850	3.400	A572-65

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
L60	24.500-23.000	1.500	0.000	12	34.351	34.648	0.838	3.350	(65 ksi) A572-65 (65 ksi)
L61	23.000-22.750	0.250	0.000	12	34.648	34.697	0.963	3.850	A572-65 (65 ksi)
L62	22.750-21.583	1.167	0.000	12	34.697	34.928	0.963	3.850	A572-65 (65 ksi)
L63	21.583-21.333	0.250	0.000	12	34.928	34.978	0.850	3.400	A572-65 (65 ksi)
L64	21.333-16.333	5.000	0.000	12	34.978	35.967	0.838	3.350	A572-65 (65 ksi)
L65	16.333-12.917	3.416	0.000	12	35.967	36.644	0.825	3.300	A572-65 (65 ksi)
L66	12.917-12.667	0.250	0.000	12	36.644	36.693	0.912	3.650	A572-65 (65 ksi)
L67	12.667-12.500	0.167	0.000	12	36.693	36.726	0.912	3.650	A572-65 (65 ksi)
L68	12.500-12.250	0.250	0.000	12	36.726	36.776	0.762	3.050	A572-65 (65 ksi)
L69	12.250-12.000	0.250	0.000	12	36.776	36.825	0.762	3.050	A572-65 (65 ksi)
L70	12.000-11.750	0.250	0.000	12	36.825	36.874	0.662	2.650	A572-65 (65 ksi)
L71	11.750-8.500	3.250	0.000	12	36.874	37.518	0.650	2.600	A572-65 (65 ksi)
L72	8.500-8.250	0.250	0.000	12	37.518	37.567	0.925	3.700	A572-65 (65 ksi)
L73	8.250-7.000	1.250	0.000	12	37.567	37.815	0.912	3.650	A572-65 (65 ksi)
L74	7.000-6.750	0.250	0.000	12	37.815	37.864	0.813	3.250	A572-65 (65 ksi)
L75	6.750-1.750	5.000	0.000	12	37.864	38.854	0.787	3.150	A572-65 (65 ksi)
L76	1.750-0.000	1.750		12	38.854	39.200	0.787	3.150	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/t
L1	12.750	14.579	279.335	4.377	6.375	43.817	558.670	7.285	0.000	0
	12.750	14.579	279.335	4.377	6.375	43.817	558.670	7.285	0.000	0
L2	12.750	14.579	279.335	4.377	6.375	43.817	558.670	7.285	0.000	0
	12.750	14.579	279.335	4.377	6.375	43.817	558.670	7.285	0.000	0
L3	13.480	15.439	331.709	4.635	6.740	49.215	663.419	7.715	0.000	0
	13.480	15.439	331.709	4.635	6.740	49.215	663.419	7.715	0.000	0
L4	13.889	8.025	180.994	4.759	6.983	25.921	366.742	3.950	3.110	16.587
	14.910	8.621	224.322	5.112	7.493	29.936	454.538	4.243	3.374	17.996
L5	14.910	8.621	224.322	5.112	7.493	29.936	454.538	4.243	3.374	17.996
	15.931	9.216	274.067	5.465	8.004	34.242	555.334	4.536	3.639	19.405
L6	15.931	9.216	274.067	5.465	8.004	34.242	555.334	4.536	3.639	19.405
	16.101	9.315	283.020	5.523	8.089	34.988	573.475	4.585	3.683	19.641
L7	15.977	26.097	757.351	5.398	8.089	93.626	1534.598	12.844	2.745	5.106
	16.028	26.182	764.802	5.416	8.115	94.250	1549.697	12.886	2.758	5.131
L8	16.037	25.006	732.852	5.425	8.115	90.312	1484.956	12.307	2.825	5.512
	17.058	26.633	885.390	5.778	8.625	102.651	1794.040	13.108	3.089	6.027

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/t
L9	17.067	25.373	846.120	5.787	8.625	98.098	1714.469	12.488	3.156	6.474
	18.087	26.920	1010.566	6.139	9.136	110.615	2047.680	13.249	3.420	7.016
L10	18.092	26.249	986.808	6.144	9.136	108.014	1999.541	12.919	3.454	7.271
	18.840	27.355	1116.814	6.403	9.510	117.432	2262.967	13.463	3.647	7.679
L11	18.800	33.621	1355.419	6.362	9.510	142.521	2746.446	16.547	3.346	5.695
	18.851	33.714	1366.728	6.380	9.536	143.325	2769.361	16.593	3.359	5.718
L12	18.860	32.324	1314.084	6.389	9.536	137.804	2662.690	15.909	3.426	6.091
	19.778	33.931	1519.973	6.707	9.995	152.067	3079.878	16.700	3.664	6.514
L13	19.704	46.220	2023.726	6.631	9.995	202.465	4100.618	22.748	3.094	3.993
	19.755	46.343	2039.927	6.648	10.021	203.566	4133.444	22.808	3.108	4.01
L14	19.759	45.626	2011.080	6.653	10.021	200.687	4074.993	22.456	3.141	4.119
	20.184	46.635	2147.450	6.800	10.234	209.839	4351.315	22.952	3.251	4.264
L15	20.255	34.765	1634.756	6.871	10.234	159.741	3312.459	17.110	3.787	6.733
	20.306	34.854	1647.383	6.889	10.259	160.574	3338.044	17.154	3.800	6.756
L16	20.310	34.102	1613.915	6.894	10.259	157.312	3270.229	16.784	3.834	6.971
	21.008	35.295	1789.255	7.135	10.608	168.667	3625.516	17.371	4.014	7.299
L17	20.906	52.969	2608.327	7.032	10.608	245.878	5285.177	26.070	3.244	3.873
	20.957	53.102	2628.012	7.049	10.634	247.139	5325.066	26.135	3.257	3.889
L18	20.957	53.102	2628.012	7.049	10.634	247.139	5325.066	26.135	3.257	3.889
	21.161	53.633	2707.746	7.120	10.736	252.215	5486.627	26.397	3.310	3.952
L19	21.192	48.241	2456.993	7.151	10.736	228.858	4978.535	23.743	3.544	4.726
	21.243	48.360	2475.226	7.169	10.761	230.010	5015.479	23.801	3.558	4.744
L20	21.248	47.584	2438.533	7.173	10.761	226.600	4941.129	23.419	3.591	4.869
	22.319	50.042	2836.299	7.544	11.298	251.054	5747.111	24.629	3.869	5.246
L21	21.916	51.352	2604.715	7.137	10.741	242.512	5277.858	25.274	3.413	4.266
	22.215	53.916	3014.753	7.493	11.256	267.829	6108.707	26.536	3.680	4.6
L22	22.223	52.294	2931.020	7.502	11.256	260.391	5939.041	25.737	3.747	4.834
	22.492	52.941	3041.147	7.595	11.391	266.989	6162.189	26.056	3.816	4.924
L23	22.412	67.586	3800.525	7.514	11.391	333.657	7700.894	33.264	3.213	3.213
	22.464	67.746	3827.628	7.532	11.416	335.277	7755.811	33.343	3.227	3.227
L24	22.473	66.131	3745.256	7.541	11.416	328.062	7588.905	32.548	3.294	3.378
	22.627	66.600	3825.474	7.594	11.494	332.833	7751.447	32.778	3.334	3.419
L25	22.702	52.606	3082.526	7.671	11.494	268.194	6246.034	25.891	3.903	5.119
	22.754	52.728	3104.059	7.688	11.519	269.463	6289.666	25.951	3.916	5.136
L26	22.754	52.728	3104.059	7.688	11.519	269.463	6289.666	25.951	3.916	5.136
	22.788	52.810	3118.499	7.700	11.537	270.312	6318.925	25.992	3.925	5.148
L27	22.819	46.940	2794.467	7.732	11.537	242.225	5662.348	23.102	4.160	6.163
	22.871	47.048	2813.834	7.749	11.562	243.360	5701.590	23.156	4.173	6.182
L28	22.879	45.358	2719.017	7.758	11.562	235.159	5509.465	22.324	4.240	6.523
	23.910	47.442	3111.201	8.115	12.078	257.590	6304.137	23.349	4.507	6.934
L29	23.919	45.667	3001.449	8.124	12.078	248.503	6081.749	22.476	4.574	7.318
	24.950	47.671	3414.060	8.480	12.594	271.091	6917.811	23.462	4.841	7.745
L30	24.950	47.671	3414.060	8.480	12.594	271.091	6917.811	23.462	4.841	7.745
	25.070	47.904	3464.497	8.522	12.654	273.788	7020.009	23.577	4.872	7.795
L31	24.999	62.702	4458.829	8.450	12.654	352.367	9034.796	30.860	4.336	5.256
	25.051	62.835	4487.097	8.468	12.680	353.880	9092.075	30.925	4.349	5.272
L32	25.051	62.835	4487.097	8.468	12.680	353.880	9092.075	30.925	4.349	5.272
	25.137	63.055	4534.514	8.498	12.723	356.411	9188.154	31.034	4.371	5.299
L33	25.137	63.055	4534.514	8.498	12.723	356.411	9188.154	31.034	4.371	5.299
	25.188	63.188	4563.100	8.515	12.748	357.932	9246.079	31.099	4.385	5.315
L34	25.197	61.337	4438.791	8.524	12.748	348.182	8994.195	30.188	4.452	5.565
	25.575	62.277	4646.037	8.655	12.938	359.113	9414.130	30.651	4.550	5.687
L35	25.544	68.839	5098.436	8.624	12.938	394.081	10330.813	33.880	4.315	4.862
	25.595	68.981	5130.107	8.641	12.963	395.740	10394.987	33.950	4.328	4.877
L36	25.595	68.981	5130.107	8.641	12.963	395.740	10394.987	33.950	4.328	4.877
	25.647	69.123	5161.909	8.659	12.989	397.403	10459.426	34.020	4.342	4.892
L37	25.638	70.997	5290.875	8.650	12.989	407.332	10720.747	34.943	4.275	4.685
	25.690	71.143	5323.640	8.668	13.015	409.042	10787.138	35.015	4.288	4.699
L38	25.703	68.325	5128.616	8.682	13.015	394.057	10391.966	33.628	4.389	5.016
	26.734	71.130	5786.510	9.038	13.531	427.662	11725.038	35.008	4.655	5.32
L39	26.742	69.166	5637.897	9.047	13.531	416.679	11423.908	34.041	4.722	5.556
	27.773	71.891	6330.781	9.403	14.046	450.710	12827.880	35.382	4.989	5.87

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/t
L40	27.782	69.843	6162.144	9.412	14.046	438.704	12486.174	34.375	5.056	6.129
	28.400	71.430	6591.746	9.626	14.356	459.174	13356.665	35.155	5.216	6.323
L41	28.400	71.430	6591.746	9.626	14.356	459.174	13356.665	35.155	5.216	6.323
	28.452	71.562	6628.421	9.644	14.381	460.901	13430.979	35.221	5.230	6.339
L42	28.452	71.562	6628.421	9.644	14.381	460.901	13430.979	35.221	5.230	6.339
	28.606	71.958	6739.263	9.697	14.459	466.102	13655.573	35.416	5.270	6.387
L43	28.584	77.231	7199.746	9.675	14.459	497.950	14588.636	38.011	5.102	5.749
	28.636	77.374	7239.601	9.693	14.485	499.815	14669.394	38.081	5.115	5.764
L44	28.649	74.207	6962.552	9.706	14.485	480.688	14108.019	36.522	5.216	6.136
	29.680	76.932	7758.005	10.063	15.000	517.192	15719.821	37.863	5.483	6.45
L45	29.684	75.834	7654.119	10.067	15.000	510.267	15509.321	37.323	5.516	6.587
	31.425	80.370	9111.392	10.669	15.872	574.072	18462.150	39.556	5.967	7.125
L46	30.903	76.767	7940.296	10.191	15.180	523.091	16089.192	37.783	5.609	6.697
	31.108	79.542	8832.656	10.559	15.712	562.143	17897.356	39.148	5.885	7.027
L47	31.108	79.542	8832.656	10.559	15.712	562.143	17897.356	39.148	5.885	7.027
	31.357	80.192	9051.176	10.646	15.837	571.505	18340.137	39.468	5.949	7.104
L48	31.353	81.355	9174.689	10.641	15.837	579.304	18590.407	40.041	5.916	6.96
	31.404	81.491	9220.582	10.659	15.863	581.261	18683.399	40.107	5.929	6.975
L49	31.404	81.491	9220.582	10.659	15.863	581.261	18683.399	40.107	5.929	6.975
	31.438	81.581	9251.324	10.671	15.880	582.570	18745.690	40.152	5.938	6.986
L50	31.407	89.715	10114.068	10.639	15.880	636.899	20493.844	44.155	5.704	6.084
	31.459	89.864	10164.669	10.657	15.906	639.054	20596.375	44.228	5.717	6.098
L51	31.468	87.541	9918.558	10.666	15.906	623.581	20097.688	43.085	5.784	6.338
	32.270	89.819	10712.920	10.944	16.307	656.941	21707.281	44.206	5.991	6.566
L52	32.257	93.395	11112.181	10.930	16.307	681.424	22516.292	45.966	5.891	6.201
	32.308	93.546	11166.294	10.948	16.333	683.668	22625.940	46.041	5.904	6.215
L53	32.312	92.353	11032.888	10.952	16.333	675.500	22355.622	45.453	5.938	6.334
	32.637	93.300	11375.549	11.065	16.495	689.623	23049.947	45.919	6.022	6.423
L54	32.654	88.467	10821.202	11.083	16.495	656.017	21926.690	43.541	6.156	6.936
	32.706	88.608	10873.173	11.100	16.521	658.145	22031.996	43.610	6.169	6.951
L55	32.706	88.608	10873.173	11.100	16.521	658.145	22031.996	43.610	6.169	6.951
	33.303	90.257	11491.698	11.307	16.820	683.221	23285.295	44.422	6.324	7.125
L56	33.308	89.021	11343.300	11.311	16.820	674.398	22984.602	43.814	6.357	7.265
	33.359	89.161	11396.675	11.329	16.846	676.540	23092.753	43.882	6.370	7.281
L57	33.363	87.922	11247.183	11.333	16.846	667.666	22789.841	43.272	6.404	7.425
	34.183	90.120	12112.233	11.617	17.256	701.930	24542.668	44.354	6.616	7.671
L58	34.183	90.120	12112.233	11.617	17.256	701.930	24542.668	44.354	6.616	7.671
	34.234	90.258	12167.724	11.635	17.281	704.100	24655.108	44.422	6.629	7.686
L59	34.238	88.984	12005.222	11.639	17.281	694.697	24325.835	43.795	6.663	7.839
	35.263	91.692	13135.172	11.993	17.794	738.186	26615.419	45.128	6.928	8.151
L60	35.267	90.378	12956.500	11.998	17.794	728.145	26253.381	44.481	6.962	8.312
	35.575	91.178	13303.879	12.104	17.948	741.261	26957.265	44.875	7.041	8.407
L61	35.531	104.400	15120.578	12.059	17.948	842.484	30638.391	51.382	6.706	6.967
	35.582	104.553	15187.306	12.077	17.973	844.995	30773.600	51.458	6.719	6.981
L62	35.582	104.553	15187.306	12.077	17.973	844.995	30773.600	51.458	6.719	6.981
	35.821	105.269	15501.390	12.160	18.093	856.767	31410.019	51.810	6.781	7.046
L63	35.861	93.272	13826.016	12.200	18.093	764.168	28015.257	45.906	7.083	8.333
	35.912	93.408	13886.326	12.218	18.119	766.416	28137.462	45.973	7.096	8.348
L64	35.916	92.068	13697.155	12.222	18.119	755.975	27754.150	45.313	7.130	8.513
	36.941	94.737	14923.079	12.577	18.631	800.976	30238.204	46.626	7.395	8.83
L65	36.945	93.356	14716.044	12.581	18.631	789.863	29818.695	45.947	7.428	9.004
	37.645	95.152	15581.827	12.823	18.981	820.902	31573.006	46.831	7.609	9.224
L66	37.614	104.987	17108.449	12.792	18.981	901.330	34666.355	51.671	7.375	8.082
	37.665	105.132	17179.621	12.809	19.007	903.859	34810.569	51.743	7.388	8.097
L67	37.665	105.132	17179.621	12.809	19.007	903.859	34810.569	51.743	7.388	8.097
	37.700	105.229	17227.273	12.821	19.024	905.550	34907.127	51.791	7.397	8.106
L68	37.753	88.299	14577.031	12.875	19.024	766.241	29537.016	43.458	7.799	10.228
	37.804	88.421	14637.279	12.893	19.050	768.372	29659.097	43.518	7.812	10.246
L69	37.804	88.421	14637.279	12.893	19.050	768.372	29659.097	43.518	7.812	10.246
	37.855	88.542	14697.694	12.910	19.075	770.507	29781.513	43.578	7.826	10.263
L70	37.890	77.144	12876.656	12.946	19.075	675.042	26091.595	37.968	8.094	12.217
	37.942	77.249	12929.583	12.964	19.101	676.907	26198.841	38.020	8.107	12.237

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/t
L71	37.946	75.818	12698.770	12.968	19.101	664.823	25731.151	37.315	8.140	12.524
	38.612	77.164	13387.320	13.199	19.434	688.855	27126.339	37.978	8.313	12.789
L72	38.515	108.991	18628.043	13.100	19.434	958.520	37745.466	53.642	7.576	8.19
	38.566	109.139	18703.710	13.118	19.460	961.146	37898.787	53.715	7.589	8.204
L73	38.571	107.701	18469.846	13.122	19.460	949.128	37424.916	53.007	7.623	8.353
	38.827	108.428	18846.355	13.211	19.588	962.140	38187.825	53.365	7.689	8.426
L74	38.862	96.807	16917.794	13.247	19.588	863.684	34280.038	47.645	7.957	9.793
	38.913	96.936	16985.753	13.264	19.614	866.020	34417.740	47.709	7.970	9.809
L75	38.922	94.017	16496.461	13.273	19.614	841.073	33426.303	46.272	8.037	10.206
	39.946	96.526	17852.914	13.628	20.126	887.049	36174.844	47.507	8.302	10.543
L76	39.946	96.526	17852.914	13.628	20.126	887.049	36174.844	47.507	8.302	10.543
	40.305	97.404	18344.678	13.752	20.306	903.430	37171.292	47.940	8.395	10.66

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	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
L1 144.250-139.250				1	1	1			
L2 139.250-134.750				1	1	1			
L3 134.750-134.250				1	1	1			
L4 134.250-129.250				1	1	1			
L5 129.250-124.250				1	1	1			
L6 124.250-123.416				1	1	1			
L7 123.416-123.166				1	1	0.873259			
L8 123.166-118.166				1	1	0.880843			
L9 118.166-113.166				1	1	0.893543			
L10 113.166-109.500				1	1	0.895307			
L11 109.500-109.250				1	1	0.905539			
L12 109.250-104.750				1	1	0.915518			
L13 104.750-104.500				1	1	0.930283			
L14 104.500-102.416				1	1	0.929776			
L15				1	1	1.12278			

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	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
102.416-102.166									
L16				1	1	1.12029			
102.166-98.750									
L17				1	1	1.00154			
98.750-98.500									
L18				1	1	0.993827			
98.500-97.500									
L19				1	1	1.04068			
97.500-97.250									
L20				1	1	1.04446			
97.250-92.000									
L21				1	1	1.02362			
92.000-90.552									
L22				1	1	1.04642			
90.552-89.250									
L23				1	1	0.966606			
89.250-89.000									
L24				1	1	0.985049			
89.000-88.250									
L25				1	1	1.01704			
88.250-88.000									
L26				1	1	1.01598			
88.000-87.833									
L27				1	1	1.00822			
87.833-87.583									
L28				1	1	1.01675			
87.583-82.583									
L29				1	1	1.02867			
82.583-77.583									
L30				1	1	1.02561			
77.583-77.000									
L31				1	1	0.973799			
77.000-76.750									
L32				1	1	0.971453			
76.750-76.333									
L33				1	1	0.922508			
76.333-76.083									
L34				1	1	0.940709			
76.083-74.250									
L35				1	1	0.893422			
74.250-74.000									
L36				1	1	0.892163			
74.000-73.750									
L37				1	1	0.909624			
73.750-73.500									
L38				1	1	0.921059			
73.500-68.500									
L39				1	1	0.922459			
68.500-63.500									
L40				1	1	0.935147			
63.500-60.500									
L41				1	1	0.933979			
60.500-60.250									
L42				1	1	0.930501			
60.250-59.500									
L43				1	1	0.9205			
59.500-59.250									

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	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
L44 59.250-54.250				1	1	0.936205			
L45 54.250-45.802				1	1	0.930731			
L46 45.802-44.802				1	1	0.938065			
L47 44.802-43.583				1	1	0.933481			
L48 43.583-43.333				1	1	0.974523			
L49 43.333-43.166				1	1	0.97385			
L50 43.166-42.916				1	1	0.934786			
L51 42.916-39.000				1	1	0.943944			
L52 39.000-38.750				1	1	0.949681			
L53 38.750-37.166				1	1	0.955574			
L54 37.166-36.916				1	1	0.972827			
L55 36.916-34.000				1	1	0.961485			
L56 34.000-33.750				1	1	0.928941			
L57 33.750-29.750				1	1	0.927889			
L58 29.750-29.500				1	1	0.93743			
L59 29.500-24.500				1	1	0.933623			
L60 24.500-23.000				1	1	0.942163			
L61 23.000-22.750				1	1	0.90832			
L62 22.750-21.583				1	1	0.904351			
L63 21.583-21.333				1	1	0.971473			
L64 21.333-16.333				1	1	0.968358			
L65 16.333-12.917				1	1	0.971282			
L66 12.917-12.667				1	1	0.961412			
L67 12.667-12.500				1	1	0.96084			
L68 12.500-12.250				1	1	1.00814			
L69 12.250-12.000				1	1	1.00732			
L70 12.000-11.750				1	1	1.07745			
L71 11.750-8.500				1	1	1.08702			
L72 8.500-8.250				1	1	0.961703			
L73				1	1	0.970307			

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	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
8.250-7.000 L74 7.000-6.750				1	1	0.961877			
L75 6.750-1.750				1	1	0.976278			
L76 1.750-0.000				1	1	0.971053			

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 klf
FB-L98B-034-XXX(3/8)	B	No	Surface Ar (CaAa)	144.000 - 0.000	2	2	0.000 0.030	0.394		0.000
PWRT-608-S(13/16)	B	No	Surface Ar (CaAa)	144.000 - 0.000	6	3	0.000 0.150	0.820		0.001
PWRT-606-S(7/8)	B	No	Surface Ar (CaAa)	144.000 - 0.000	1	1	0.150 0.160	0.920		0.001
RFFT-48SM-001-XXX(3/8) *	B	No	Surface Ar (CaAa)	144.000 - 0.000	1	1	0.160 0.170	0.400		0.000
7983A(ELLIPTICAL)	B	No	Surface Ar (CaAa)	130.000 - 0.000	3	1	-0.380 -0.300	0.573		0.000
CU12PSM9P6XXX(1-1/2)	B	No	Surface Ar (CaAa)	120.000 - 0.000	1	1	-0.100 -0.080	1.600		0.002
MLC HYBRID 6X12 6AWGX6(1-1/2) *	C	No	Surface Ar (CaAa)	100.000 - 0.000	2	2	0.370 0.400	1.530		0.001
Safety Line 3/8 *	B	No	Surface Ar (CaAa)	144.250 - 0.000	1	1	-0.400 -0.370	0.375		0.000
PL1.25x6.875 Reinforcement	A	No	Surface Af (CaAa)	29.750 - 0.000	1	1	0.250 0.250	6.875	16.250	0.000
PL1.25x6.875 Reinforcement	B	No	Surface Af (CaAa)	29.750 - 0.000	1	1	0.250 0.250	6.875	16.250	0.000
PL1.25x6.875 Reinforcement	C	No	Surface Af (CaAa)	29.750 - 9.170	1	1	0.250 0.250	6.875	16.250	0.000
PL1.25x6.875 Reinforcement	C	No	Surface Af (CaAa)	16.420 - 0.000	1	1	0.000 0.000	6.875	16.250	0.000
PL1.25x6.875 Reinforcement ***	C	No	Surface Af (CaAa)	16.420 - 0.000	1	1	0.500 0.500	6.875	16.250	0.000
PL1.25x6.625 Reinforcement	A	No	Surface Af (CaAa)	59.500 - 29.750	1	1	0.250 0.250	6.625	15.750	0.000
PL1.25x6.625 Reinforcement	B	No	Surface Af (CaAa)	59.500 - 29.750	1	1	0.250 0.250	6.625	15.750	0.000
PL1.25x6.625 Reinforcement ***	C	No	Surface Af (CaAa)	59.500 - 29.750	1	1	0.250 0.250	6.625	15.750	0.000
PL1.25x5.5 Reinforcement	A	No	Surface Af (CaAa)	89.250 - 59.500	1	1	0.250 0.250	5.500	13.500	0.000
PL1.25x5.5 Reinforcement	B	No	Surface Af (CaAa)	89.250 - 59.500	1	1	0.250 0.250	5.500	13.500	0.000

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 klf
PL1.25x5.5 Reinforcement	C	No	Surface Af (CaAa)	89.250 - 59.500	1	1	0.250 0.250	5.500	13.500	0.000
***										
PL1.25x3.625 Reinforcement	A	No	Surface Af (CaAa)	100.000 - 89.250	1	1	0.250 0.250	3.625	9.750	0.000
PL1.25x3.625 Reinforcement	B	No	Surface Af (CaAa)	100.000 - 89.250	1	1	0.250 0.250	3.625	9.750	0.000
PL1.25x3.625 Reinforcement	C	No	Surface Af (CaAa)	100.000 - 89.250	1	1	0.250 0.250	3.625	9.750	0.000
***										
PL1x4 Reinforcement	A	No	Surface Af (CaAa)	35.750 - 10.750	1	1	0.000 0.000	4.000	10.000	0.000
PL1x4 Reinforcement	B	No	Surface Af (CaAa)	35.750 - 10.750	1	1	-0.250 -0.250	4.000	10.000	0.000
PL1x4 Reinforcement	C	No	Surface Af (CaAa)	40.750 - 10.750	1	1	-0.250 -0.250	4.000	10.000	0.000
***										
PL1x4 Reinforcement	A	No	Surface Af (CaAa)	62.250 - 32.250	1	1	0.500 0.500	4.000	10.000	0.000
PL1x4 Reinforcement	B	No	Surface Af (CaAa)	62.250 - 32.250	1	1	0.500 0.500	4.000	10.000	0.000
PL1x4 Reinforcement	C	No	Surface Af (CaAa)	62.250 - 32.250	1	1	0.500 0.500	4.000	10.000	0.000
***										
PL1x4 Reinforcement	A	No	Surface Af (CaAa)	78.750 - 58.750	1	1	-0.250 -0.250	4.000	10.000	0.000
PL1x4 Reinforcement	B	No	Surface Af (CaAa)	78.750 - 58.750	1	1	-0.250 -0.250	4.000	10.000	0.000
PL1x4 Reinforcement	C	No	Surface Af (CaAa)	78.750 - 58.750	1	1	-0.250 -0.250	4.000	10.000	0.000
***										
PL1x4 Reinforcement	A	No	Surface Af (CaAa)	106.500 - 86.500	1	1	-0.250 -0.250	4.000	10.000	0.000
PL1x4 Reinforcement	B	No	Surface Af (CaAa)	106.500 - 86.500	1	1	-0.250 -0.250	4.000	10.000	0.000
PL1x4 Reinforcement	C	No	Surface Af (CaAa)	106.500 - 86.500	1	1	-0.250 -0.250	4.000	10.000	0.000
***										
Transition Stiffener 1x7	A	No	Surface Af (CaAa)	10.500 - 0.000	1	1	-0.500 -0.500	1.000	16.000	0.000
Transition Stiffener 1x7	B	No	Surface Af (CaAa)	10.500 - 0.000	1	1	-0.250 -0.250	1.000	16.000	0.000
Transition Stiffener 1x7	C	No	Surface Af (CaAa)	10.500 - 0.000	1	1	-0.250 -0.250	1.000	16.000	0.000
*										
CCI-SFP-060100	B	No	Surface Af (CaAa)	25.000 - 5.000	1	1	-0.500 -0.500	6.000	14.000	0.000
CCI-SFP-060100	C	No	Surface Af (CaAa)	25.000 - 5.000	1	1	0.000 0.000	6.000	14.000	0.000
*										
CCI-SFP-060100	C	No	Surface Af (CaAa)	25.000 - 10.000	1	1	-0.250 -0.250	6.000	14.000	0.000
*										
CCI-SFP-045100	B	No	Surface Af (CaAa)	35.083 - 20.083	1	1	0.000 0.000	4.500	11.000	0.000
*										
CCI-SFP-045100	C	No	Surface Af (CaAa)	35.083 - 25.083	1	1	0.000 0.000	4.500	11.000	0.000
*										
CCI-SFP-045100	A	No	Surface Af	45.080 -	1	1	-0.250	4.500	11.000	0.000

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 klf
			(CaAa)	25.083			-0.250			
*										
CCI-SFP-060100	B	No	Surface Af (CaAa)	45.167 - 35.167	1	1	0.000 0.000	6.000	14.000	0.000
CCI-SFP-060100	C	No	Surface Af (CaAa)	45.167 - 35.167	1	1	0.000 0.000	6.000	14.000	0.000
*										
CCI-SFP-045100	A	No	Surface Af (CaAa)	75.250 - 45.250	1	1	0.000 0.000	4.500	11.000	0.000
CCI-SFP-045100	B	No	Surface Af (CaAa)	75.250 - 45.250	1	1	0.000 0.000	4.500	11.000	0.000
*										
CCI-SFP-040075	B	No	Surface Af (CaAa)	75.250 - 45.250	1	1	0.000 0.000	4.000	9.500	0.000
*										
CCI-SFP-040075	B	No	Surface Af (CaAa)	100.330 - 75.330	1	1	0.000 0.000	4.000	9.500	0.000
CCI-SFP-040075	C	No	Surface Af (CaAa)	100.330 - 75.330	1	1	0.000 0.000	4.000	9.500	0.000
*										
CCI-SFP-040075	A	No	Surface Af (CaAa)	90.333 - 75.333	1	1	-0.500 -0.500	4.000	9.500	0.000
*										
CCI-AFP-05012520	C	No	Surface Af (CaAa)	105.330 - 85.330	1	1	0.000 0.000	5.000	12.500	0.000
*										
CCI-AFP-045100	A	No	Surface Af (CaAa)	125.416 - 100.416	1	1	0.000 0.000	4.500	11.000	0.000
CCI-AFP-045100	B	No	Surface Af (CaAa)	125.416 - 100.416	1	1	0.000 0.000	4.500	11.000	0.000
CCI-AFP-045100	C	No	Surface Af (CaAa)	125.416 - 100.416	1	1	0.000 0.000	4.500	11.000	0.000
*										
CCI-AFP-040075	A	No	Surface Af (CaAa)	111.000 - 96.000	1	1	-0.500 -0.500	4.000	9.500	0.000
*										
CCI-AFP-040075	B	No	Surface Af (CaAa)	111.000 - 101.000	1	1	-0.500 -0.500	4.000	9.500	0.000
*										

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight klf
MLC6C-06C-008R-008R(1-1/2)	B	No	No	Inside Pole	130.000 - 0.000	1	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.002 0.002 0.002
HB114-1-0813U4-M5J(1-1/4)	B	No	No	Inside Pole	130.000 - 0.000	3	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.001 0.001 0.001
*									
*									
LDF7-50A(1-5/8)	B	No	No	Inside Pole	110.000 - 0.000	6	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.001 0.001 0.001

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight klf
HB114-U6S12-XXX-LI(1-1/4)	B	No	No	Inside Pole	110.000 - 0.000	2	No Ice	0.000	0.002
							1/2" Ice	0.000	0.002
							1" Ice	0.000	0.002
LDF4-50A(1/2)	B	No	No	Inside Pole	110.000 - 0.000	1	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
*									
HB158-21U6S24-xxM_TMO(1-5/8)	C	No	No	Inside Pole	100.000 - 0.000	1	No Ice	0.000	0.003
							1/2" Ice	0.000	0.003
							1" Ice	0.000	0.003
*									
LDF4-50A(1/2)	B	No	No	Inside Pole	50.000 - 0.000	1	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
*									

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	144.250-139.250	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	2.357	0.000	0.024
		C	0.000	0.000	0.000	0.000	0.000
L2	139.250-134.750	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	2.224	0.000	0.023
		C	0.000	0.000	0.000	0.000	0.000
L3	134.750-134.250	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	0.247	0.000	0.003
		C	0.000	0.000	0.000	0.000	0.000
L4	134.250-129.250	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	2.514	0.000	0.029
		C	0.000	0.000	0.000	0.000	0.000
L5	129.250-124.250	A	0.000	0.000	0.875	0.000	0.000
		B	0.000	0.000	3.632	0.000	0.052
		C	0.000	0.000	0.875	0.000	0.000
L6	124.250-123.416	A	0.000	0.000	0.625	0.000	0.000
		B	0.000	0.000	1.085	0.000	0.009
		C	0.000	0.000	0.625	0.000	0.000
L7	123.416-123.166	A	0.000	0.000	0.188	0.000	0.000
		B	0.000	0.000	0.325	0.000	0.003
		C	0.000	0.000	0.188	0.000	0.000
L8	123.166-118.166	A	0.000	0.000	3.750	0.000	0.000
		B	0.000	0.000	6.801	0.000	0.056
		C	0.000	0.000	3.750	0.000	0.000
L9	118.166-113.166	A	0.000	0.000	3.750	0.000	0.000
		B	0.000	0.000	7.308	0.000	0.064
		C	0.000	0.000	3.750	0.000	0.000
L10	113.166-109.500	A	0.000	0.000	3.749	0.000	0.000
		B	0.000	0.000	6.358	0.000	0.051
		C	0.000	0.000	2.749	0.000	0.000
L11	109.500-109.250	A	0.000	0.000	0.354	0.000	0.000
		B	0.000	0.000	0.532	0.000	0.005
		C	0.000	0.000	0.188	0.000	0.000

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L12	109.250-104.750	A	0.000	0.000	7.542	0.000	0.000
		B	0.000	0.000	10.744	0.000	0.095
		C	0.000	0.000	5.025	0.000	0.000
L13	104.750-104.500	A	0.000	0.000	0.521	0.000	0.000
		B	0.000	0.000	0.699	0.000	0.005
		C	0.000	0.000	0.563	0.000	0.000
L14	104.500-102.416	A	0.000	0.000	4.342	0.000	0.000
		B	0.000	0.000	5.825	0.000	0.044
		C	0.000	0.000	4.689	0.000	0.000
L15	102.416-102.166	A	0.000	0.000	0.521	0.000	0.000
		B	0.000	0.000	0.699	0.000	0.005
		C	0.000	0.000	0.563	0.000	0.000
L16	102.166-98.750	A	0.000	0.000	6.622	0.000	0.000
		B	0.000	0.000	8.606	0.000	0.072
		C	0.000	0.000	8.628	0.000	0.005
L17	98.750-98.500	A	0.000	0.000	0.484	0.000	0.000
		B	0.000	0.000	0.662	0.000	0.005
		C	0.000	0.000	0.769	0.000	0.001
L18	98.500-97.500	A	0.000	0.000	1.938	0.000	0.000
		B	0.000	0.000	2.649	0.000	0.021
		C	0.000	0.000	3.077	0.000	0.004
L19	97.500-97.250	A	0.000	0.000	0.484	0.000	0.000
		B	0.000	0.000	0.662	0.000	0.005
		C	0.000	0.000	0.769	0.000	0.001
L20	97.250-92.000	A	0.000	0.000	7.505	0.000	0.000
		B	0.000	0.000	13.907	0.000	0.111
		C	0.000	0.000	16.153	0.000	0.019
L21	92.000-90.552	A	0.000	0.000	1.840	0.000	0.000
		B	0.000	0.000	3.836	0.000	0.031
		C	0.000	0.000	4.455	0.000	0.005
L22	90.552-89.250	A	0.000	0.000	2.377	0.000	0.000
		B	0.000	0.000	3.449	0.000	0.028
		C	0.000	0.000	4.006	0.000	0.005
L23	89.250-89.000	A	0.000	0.000	0.563	0.000	0.000
		B	0.000	0.000	0.740	0.000	0.005
		C	0.000	0.000	0.847	0.000	0.001
L24	89.000-88.250	A	0.000	0.000	1.688	0.000	0.000
		B	0.000	0.000	2.221	0.000	0.016
		C	0.000	0.000	2.542	0.000	0.003
L25	88.250-88.000	A	0.000	0.000	0.563	0.000	0.000
		B	0.000	0.000	0.740	0.000	0.005
		C	0.000	0.000	0.847	0.000	0.001
L26	88.000-87.833	A	0.000	0.000	0.376	0.000	0.000
		B	0.000	0.000	0.495	0.000	0.004
		C	0.000	0.000	0.566	0.000	0.001
L27	87.833-87.583	A	0.000	0.000	0.563	0.000	0.000
		B	0.000	0.000	0.740	0.000	0.005
		C	0.000	0.000	0.847	0.000	0.001
L28	87.583-82.583	A	0.000	0.000	8.639	0.000	0.000
		B	0.000	0.000	12.196	0.000	0.106
		C	0.000	0.000	12.046	0.000	0.018
L29	82.583-77.583	A	0.000	0.000	8.695	0.000	0.000
		B	0.000	0.000	12.252	0.000	0.106
		C	0.000	0.000	10.225	0.000	0.018
L30	77.583-77.000	A	0.000	0.000	1.312	0.000	0.000
		B	0.000	0.000	1.727	0.000	0.012
		C	0.000	0.000	1.490	0.000	0.002
L31	77.000-76.750	A	0.000	0.000	0.563	0.000	0.000
		B	0.000	0.000	0.740	0.000	0.005
		C	0.000	0.000	0.639	0.000	0.001
L32	76.750-76.333	A	0.000	0.000	0.938	0.000	0.000

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		B	0.000	0.000	1.235	0.000	0.009
		C	0.000	0.000	1.066	0.000	0.002
L33	76.333-76.083	A	0.000	0.000	0.563	0.000	0.000
		B	0.000	0.000	0.740	0.000	0.005
		C	0.000	0.000	0.639	0.000	0.001
L34	76.083-74.250	A	0.000	0.000	4.152	0.000	0.000
		B	0.000	0.000	6.125	0.000	0.039
		C	0.000	0.000	3.965	0.000	0.007
L35	74.250-74.000	A	0.000	0.000	0.583	0.000	0.000
		B	0.000	0.000	0.928	0.000	0.005
		C	0.000	0.000	0.472	0.000	0.001
L36	74.000-73.750	A	0.000	0.000	0.583	0.000	0.000
		B	0.000	0.000	0.928	0.000	0.005
		C	0.000	0.000	0.472	0.000	0.001
L37	73.750-73.500	A	0.000	0.000	0.583	0.000	0.000
		B	0.000	0.000	0.928	0.000	0.005
		C	0.000	0.000	0.472	0.000	0.001
L38	73.500-68.500	A	0.000	0.000	11.667	0.000	0.000
		B	0.000	0.000	18.558	0.000	0.106
		C	0.000	0.000	9.447	0.000	0.018
L39	68.500-63.500	A	0.000	0.000	11.667	0.000	0.000
		B	0.000	0.000	18.558	0.000	0.106
		C	0.000	0.000	9.447	0.000	0.018
L40	63.500-60.500	A	0.000	0.000	8.167	0.000	0.000
		B	0.000	0.000	12.301	0.000	0.064
		C	0.000	0.000	6.835	0.000	0.011
L41	60.500-60.250	A	0.000	0.000	0.750	0.000	0.000
		B	0.000	0.000	1.095	0.000	0.005
		C	0.000	0.000	0.639	0.000	0.001
L42	60.250-59.500	A	0.000	0.000	2.250	0.000	0.000
		B	0.000	0.000	3.284	0.000	0.016
		C	0.000	0.000	1.917	0.000	0.003
L43	59.500-59.250	A	0.000	0.000	0.797	0.000	0.000
		B	0.000	0.000	1.141	0.000	0.005
		C	0.000	0.000	0.686	0.000	0.001
L44	59.250-54.250	A	0.000	0.000	12.938	0.000	0.000
		B	0.000	0.000	19.829	0.000	0.106
		C	0.000	0.000	10.717	0.000	0.018
L45	54.250-45.802	A	0.000	0.000	21.296	0.000	0.000
		B	0.000	0.000	32.939	0.000	0.180
		C	0.000	0.000	17.545	0.000	0.031
L46	45.802-44.802	A	0.000	0.000	2.393	0.000	0.000
		B	0.000	0.000	3.597	0.000	0.021
		C	0.000	0.000	2.410	0.000	0.004
L47	44.802-43.583	A	0.000	0.000	3.073	0.000	0.000
		B	0.000	0.000	4.138	0.000	0.026
		C	0.000	0.000	3.644	0.000	0.004
L48	43.583-43.333	A	0.000	0.000	0.630	0.000	0.000
		B	0.000	0.000	0.849	0.000	0.005
		C	0.000	0.000	0.747	0.000	0.001
L49	43.333-43.166	A	0.000	0.000	0.421	0.000	0.000
		B	0.000	0.000	0.567	0.000	0.004
		C	0.000	0.000	0.499	0.000	0.001
L50	43.166-42.916	A	0.000	0.000	0.630	0.000	0.000
		B	0.000	0.000	0.849	0.000	0.005
		C	0.000	0.000	0.747	0.000	0.001
L51	42.916-39.000	A	0.000	0.000	9.872	0.000	0.000
		B	0.000	0.000	13.293	0.000	0.084
		C	0.000	0.000	12.871	0.000	0.014
L52	39.000-38.750	A	0.000	0.000	0.630	0.000	0.000
		B	0.000	0.000	0.849	0.000	0.005

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		C	0.000	0.000	0.914	0.000	0.001
L53	38.750-37.166	A	0.000	0.000	3.993	0.000	0.000
		B	0.000	0.000	5.377	0.000	0.034
		C	0.000	0.000	5.791	0.000	0.006
L54	37.166-36.916	A	0.000	0.000	0.630	0.000	0.000
		B	0.000	0.000	0.849	0.000	0.005
		C	0.000	0.000	0.914	0.000	0.001
L55	36.916-34.000	A	0.000	0.000	8.517	0.000	0.000
		B	0.000	0.000	10.813	0.000	0.062
		C	0.000	0.000	10.408	0.000	0.011
L56	34.000-33.750	A	0.000	0.000	0.797	0.000	0.000
		B	0.000	0.000	0.975	0.000	0.005
		C	0.000	0.000	0.873	0.000	0.001
L57	33.750-29.750	A	0.000	0.000	11.083	0.000	0.000
		B	0.000	0.000	13.929	0.000	0.085
		C	0.000	0.000	12.307	0.000	0.015
L58	29.750-29.500	A	0.000	0.000	0.641	0.000	0.000
		B	0.000	0.000	0.819	0.000	0.005
		C	0.000	0.000	0.717	0.000	0.001
L59	29.500-24.500	A	0.000	0.000	12.375	0.000	0.000
		B	0.000	0.000	16.870	0.000	0.107
		C	0.000	0.000	14.905	0.000	0.018
L60	24.500-23.000	A	0.000	0.000	2.719	0.000	0.000
		B	0.000	0.000	6.411	0.000	0.032
		C	0.000	0.000	6.178	0.000	0.006
L61	23.000-22.750	A	0.000	0.000	0.453	0.000	0.000
		B	0.000	0.000	1.069	0.000	0.005
		C	0.000	0.000	1.030	0.000	0.001
L62	22.750-21.583	A	0.000	0.000	2.115	0.000	0.000
		B	0.000	0.000	4.988	0.000	0.025
		C	0.000	0.000	4.806	0.000	0.004
L63	21.583-21.333	A	0.000	0.000	0.453	0.000	0.000
		B	0.000	0.000	1.069	0.000	0.005
		C	0.000	0.000	1.030	0.000	0.001
L64	21.333-16.333	A	0.000	0.000	9.063	0.000	0.000
		B	0.000	0.000	18.558	0.000	0.107
		C	0.000	0.000	20.792	0.000	0.018
L65	16.333-12.917	A	0.000	0.000	6.191	0.000	0.000
		B	0.000	0.000	12.038	0.000	0.073
		C	0.000	0.000	21.897	0.000	0.013
L66	12.917-12.667	A	0.000	0.000	0.453	0.000	0.000
		B	0.000	0.000	0.881	0.000	0.005
		C	0.000	0.000	1.603	0.000	0.001
L67	12.667-12.500	A	0.000	0.000	0.303	0.000	0.000
		B	0.000	0.000	0.589	0.000	0.004
		C	0.000	0.000	1.070	0.000	0.001
L68	12.500-12.250	A	0.000	0.000	0.453	0.000	0.000
		B	0.000	0.000	0.881	0.000	0.005
		C	0.000	0.000	1.603	0.000	0.001
L69	12.250-12.000	A	0.000	0.000	0.453	0.000	0.000
		B	0.000	0.000	0.881	0.000	0.005
		C	0.000	0.000	1.603	0.000	0.001
L70	12.000-11.750	A	0.000	0.000	0.453	0.000	0.000
		B	0.000	0.000	0.881	0.000	0.005
		C	0.000	0.000	1.603	0.000	0.001
L71	11.750-8.500	A	0.000	0.000	4.684	0.000	0.000
		B	0.000	0.000	10.247	0.000	0.069
		C	0.000	0.000	17.359	0.000	0.012
L72	8.500-8.250	A	0.000	0.000	0.323	0.000	0.000
		B	0.000	0.000	0.751	0.000	0.005
		C	0.000	0.000	0.936	0.000	0.001

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L73	8.250-7.000	A	0.000	0.000	1.616	0.000	0.000
		B	0.000	0.000	3.755	0.000	0.027
		C	0.000	0.000	4.680	0.000	0.005
L74	7.000-6.750	A	0.000	0.000	0.323	0.000	0.000
		B	0.000	0.000	0.751	0.000	0.005
		C	0.000	0.000	0.936	0.000	0.001
L75	6.750-1.750	A	0.000	0.000	6.463	0.000	0.000
		B	0.000	0.000	11.770	0.000	0.107
		C	0.000	0.000	15.472	0.000	0.018
L76	1.750-0.000	A	0.000	0.000	2.262	0.000	0.000
		B	0.000	0.000	3.507	0.000	0.037
		C	0.000	0.000	4.803	0.000	0.006

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	144.250-139.250	A	0.983	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	7.930	0.000	0.081
		C		0.000	0.000	0.000	0.000	0.000
L2	139.250-134.750	A	0.980	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	7.441	0.000	0.076
		C		0.000	0.000	0.000	0.000	0.000
L3	134.750-134.250	A	0.978	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	0.826	0.000	0.008
		C		0.000	0.000	0.000	0.000	0.000
L4	134.250-129.250	A	0.976	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	8.436	0.000	0.092
		C		0.000	0.000	0.000	0.000	0.000
L5	129.250-124.250	A	0.972	0.000	0.000	1.101	0.000	0.006
		B		0.000	0.000	10.586	0.000	0.144
		C		0.000	0.000	1.101	0.000	0.006
L6	124.250-123.416	A	0.970	0.000	0.000	0.787	0.000	0.005
		B		0.000	0.000	2.367	0.000	0.028
		C		0.000	0.000	0.787	0.000	0.005
L7	123.416-123.166	A	0.970	0.000	0.000	0.236	0.000	0.001
		B		0.000	0.000	0.709	0.000	0.008
		C		0.000	0.000	0.236	0.000	0.001
L8	123.166-118.166	A	0.968	0.000	0.000	4.718	0.000	0.028
		B		0.000	0.000	14.819	0.000	0.175
		C		0.000	0.000	4.718	0.000	0.028
L9	118.166-113.166	A	0.964	0.000	0.000	4.714	0.000	0.027
		B		0.000	0.000	15.904	0.000	0.191
		C		0.000	0.000	4.714	0.000	0.027
L10	113.166-109.500	A	0.960	0.000	0.000	4.741	0.000	0.027
		B		0.000	0.000	12.862	0.000	0.151
		C		0.000	0.000	3.453	0.000	0.020
L11	109.500-109.250	A	0.958	0.000	0.000	0.450	0.000	0.003
		B		0.000	0.000	0.997	0.000	0.013
		C		0.000	0.000	0.235	0.000	0.001
L12	109.250-104.750	A	0.956	0.000	0.000	9.597	0.000	0.055
		B		0.000	0.000	19.429	0.000	0.239
		C		0.000	0.000	6.331	0.000	0.037
L13	104.750-104.500	A	0.954	0.000	0.000	0.664	0.000	0.004
		B		0.000	0.000	1.209	0.000	0.014
		C		0.000	0.000	0.706	0.000	0.004
L14	104.500-102.416	A	0.953	0.000	0.000	5.533	0.000	0.032

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		B		0.000	0.000	10.077	0.000	0.117
		C		0.000	0.000	5.880	0.000	0.034
L15	102.416-102.166	A	0.952	0.000	0.000	0.664	0.000	0.004
		B		0.000	0.000	1.208	0.000	0.014
		C		0.000	0.000	0.705	0.000	0.004
L16	102.166-98.750	A	0.950	0.000	0.000	8.481	0.000	0.049
		B		0.000	0.000	15.435	0.000	0.185
		C		0.000	0.000	11.179	0.000	0.071
L17	98.750-98.500	A	0.948	0.000	0.000	0.625	0.000	0.004
		B		0.000	0.000	1.179	0.000	0.014
		C		0.000	0.000	1.035	0.000	0.007
L18	98.500-97.500	A	0.948	0.000	0.000	2.499	0.000	0.015
		B		0.000	0.000	4.713	0.000	0.055
		C		0.000	0.000	4.141	0.000	0.029
L19	97.500-97.250	A	0.947	0.000	0.000	0.625	0.000	0.004
		B		0.000	0.000	1.178	0.000	0.014
		C		0.000	0.000	1.035	0.000	0.007
L20	97.250-92.000	A	0.944	0.000	0.000	9.685	0.000	0.058
		B		0.000	0.000	24.707	0.000	0.290
		C		0.000	0.000	21.722	0.000	0.149
L21	92.000-90.552	A	0.941	0.000	0.000	2.377	0.000	0.014
		B		0.000	0.000	6.814	0.000	0.080
		C		0.000	0.000	5.991	0.000	0.041
L22	90.552-89.250	A	0.940	0.000	0.000	3.060	0.000	0.018
		B		0.000	0.000	6.114	0.000	0.072
		C		0.000	0.000	5.381	0.000	0.037
L23	89.250-89.000	A	0.939	0.000	0.000	0.703	0.000	0.004
		B		0.000	0.000	1.254	0.000	0.014
		C		0.000	0.000	1.113	0.000	0.007
L24	89.000-88.250	A	0.938	0.000	0.000	2.110	0.000	0.012
		B		0.000	0.000	3.760	0.000	0.042
		C		0.000	0.000	3.338	0.000	0.022
L25	88.250-88.000	A	0.938	0.000	0.000	0.703	0.000	0.004
		B		0.000	0.000	1.253	0.000	0.014
		C		0.000	0.000	1.113	0.000	0.007
L26	88.000-87.833	A	0.938	0.000	0.000	0.470	0.000	0.003
		B		0.000	0.000	0.837	0.000	0.009
		C		0.000	0.000	0.743	0.000	0.005
L27	87.833-87.583	A	0.937	0.000	0.000	0.703	0.000	0.004
		B		0.000	0.000	1.253	0.000	0.014
		C		0.000	0.000	1.112	0.000	0.007
L28	87.583-82.583	A	0.934	0.000	0.000	10.710	0.000	0.060
		B		0.000	0.000	21.682	0.000	0.261
		C		0.000	0.000	16.089	0.000	0.112
L29	82.583-77.583	A	0.929	0.000	0.000	10.769	0.000	0.060
		B		0.000	0.000	21.698	0.000	0.260
		C		0.000	0.000	13.842	0.000	0.099
L30	77.583-77.000	A	0.926	0.000	0.000	1.635	0.000	0.009
		B		0.000	0.000	2.907	0.000	0.032
		C		0.000	0.000	1.993	0.000	0.014
L31	77.000-76.750	A	0.925	0.000	0.000	0.701	0.000	0.004
		B		0.000	0.000	1.246	0.000	0.014
		C		0.000	0.000	0.855	0.000	0.006
L32	76.750-76.333	A	0.925	0.000	0.000	1.170	0.000	0.007
		B		0.000	0.000	2.078	0.000	0.023
		C		0.000	0.000	1.425	0.000	0.010
L33	76.333-76.083	A	0.924	0.000	0.000	0.701	0.000	0.004
		B		0.000	0.000	1.246	0.000	0.014
		C		0.000	0.000	0.855	0.000	0.006
L34	76.083-74.250	A	0.923	0.000	0.000	5.152	0.000	0.029
		B		0.000	0.000	9.996	0.000	0.107

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		C		0.000	0.000	5.344	0.000	0.038
L35	74.250-74.000	A	0.922	0.000	0.000	0.722	0.000	0.004
		B		0.000	0.000	1.478	0.000	0.015
		C		0.000	0.000	0.641	0.000	0.005
L36	74.000-73.750	A	0.921	0.000	0.000	0.722	0.000	0.004
		B		0.000	0.000	1.478	0.000	0.015
		C		0.000	0.000	0.641	0.000	0.005
L37	73.750-73.500	A	0.921	0.000	0.000	0.721	0.000	0.004
		B		0.000	0.000	1.478	0.000	0.015
		C		0.000	0.000	0.641	0.000	0.005
L38	73.500-68.500	A	0.918	0.000	0.000	14.420	0.000	0.080
		B		0.000	0.000	29.517	0.000	0.302
		C		0.000	0.000	12.812	0.000	0.093
L39	68.500-63.500	A	0.911	0.000	0.000	14.400	0.000	0.079
		B		0.000	0.000	29.440	0.000	0.300
		C		0.000	0.000	12.790	0.000	0.092
L40	63.500-60.500	A	0.905	0.000	0.000	10.113	0.000	0.056
		B		0.000	0.000	19.108	0.000	0.187
		C		0.000	0.000	9.146	0.000	0.063
L41	60.500-60.250	A	0.903	0.000	0.000	0.931	0.000	0.005
		B		0.000	0.000	1.679	0.000	0.016
		C		0.000	0.000	0.850	0.000	0.006
L42	60.250-59.500	A	0.902	0.000	0.000	2.791	0.000	0.015
		B		0.000	0.000	5.036	0.000	0.048
		C		0.000	0.000	2.550	0.000	0.017
L43	59.500-59.250	A	0.901	0.000	0.000	0.977	0.000	0.005
		B		0.000	0.000	1.725	0.000	0.016
		C		0.000	0.000	0.897	0.000	0.006
L44	59.250-54.250	A	0.897	0.000	0.000	15.719	0.000	0.084
		B		0.000	0.000	30.644	0.000	0.303
		C		0.000	0.000	14.106	0.000	0.097
L45	54.250-45.802	A	0.886	0.000	0.000	25.787	0.000	0.136
		B		0.000	0.000	50.841	0.000	0.502
		C		0.000	0.000	23.057	0.000	0.158
L46	45.802-44.802	A	0.877	0.000	0.000	2.895	0.000	0.015
		B		0.000	0.000	5.593	0.000	0.058
		C		0.000	0.000	3.097	0.000	0.021
L47	44.802-43.583	A	0.875	0.000	0.000	3.713	0.000	0.019
		B		0.000	0.000	6.379	0.000	0.068
		C		0.000	0.000	4.545	0.000	0.030
L48	43.583-43.333	A	0.874	0.000	0.000	0.761	0.000	0.004
		B		0.000	0.000	1.307	0.000	0.014
		C		0.000	0.000	0.932	0.000	0.006
L49	43.333-43.166	A	0.873	0.000	0.000	0.508	0.000	0.003
		B		0.000	0.000	0.873	0.000	0.009
		C		0.000	0.000	0.622	0.000	0.004
L50	43.166-42.916	A	0.873	0.000	0.000	0.761	0.000	0.004
		B		0.000	0.000	1.307	0.000	0.014
		C		0.000	0.000	0.932	0.000	0.006
L51	42.916-39.000	A	0.869	0.000	0.000	11.912	0.000	0.062
		B		0.000	0.000	20.439	0.000	0.216
		C		0.000	0.000	16.052	0.000	0.103
L52	39.000-38.750	A	0.864	0.000	0.000	0.760	0.000	0.004
		B		0.000	0.000	1.303	0.000	0.014
		C		0.000	0.000	1.140	0.000	0.007
L53	38.750-37.166	A	0.862	0.000	0.000	4.812	0.000	0.025
		B		0.000	0.000	8.247	0.000	0.087
		C		0.000	0.000	7.219	0.000	0.045
L54	37.166-36.916	A	0.860	0.000	0.000	0.759	0.000	0.004
		B		0.000	0.000	1.300	0.000	0.014
		C		0.000	0.000	1.139	0.000	0.007

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L55	36.916-34.000	A	0.856	0.000	0.000	10.315	0.000	0.053
		B		0.000	0.000	16.439	0.000	0.165
		C		0.000	0.000	13.026	0.000	0.081
L56	34.000-33.750	A	0.852	0.000	0.000	0.967	0.000	0.005
		B		0.000	0.000	1.485	0.000	0.014
		C		0.000	0.000	1.099	0.000	0.007
L57	33.750-29.750	A	0.847	0.000	0.000	13.369	0.000	0.068
		B		0.000	0.000	21.621	0.000	0.219
		C		0.000	0.000	15.480	0.000	0.097
L58	29.750-29.500	A	0.841	0.000	0.000	0.767	0.000	0.004
		B		0.000	0.000	1.280	0.000	0.013
		C		0.000	0.000	0.898	0.000	0.006
L59	29.500-24.500	A	0.833	0.000	0.000	14.777	0.000	0.073
		B		0.000	0.000	26.107	0.000	0.266
		C		0.000	0.000	18.607	0.000	0.115
L60	24.500-23.000	A	0.822	0.000	0.000	3.212	0.000	0.016
		B		0.000	0.000	9.370	0.000	0.086
		C		0.000	0.000	7.581	0.000	0.043
L61	23.000-22.750	A	0.819	0.000	0.000	0.535	0.000	0.003
		B		0.000	0.000	1.560	0.000	0.014
		C		0.000	0.000	1.263	0.000	0.007
L62	22.750-21.583	A	0.817	0.000	0.000	2.496	0.000	0.012
		B		0.000	0.000	7.275	0.000	0.067
		C		0.000	0.000	5.891	0.000	0.033
L63	21.583-21.333	A	0.814	0.000	0.000	0.535	0.000	0.003
		B		0.000	0.000	1.557	0.000	0.014
		C		0.000	0.000	1.261	0.000	0.007
L64	21.333-16.333	A	0.804	0.000	0.000	10.670	0.000	0.051
		B		0.000	0.000	27.602	0.000	0.266
		C		0.000	0.000	25.398	0.000	0.140
L65	16.333-12.917	A	0.784	0.000	0.000	7.262	0.000	0.033
		B		0.000	0.000	17.936	0.000	0.174
		C		0.000	0.000	25.947	0.000	0.133
L66	12.917-12.667	A	0.773	0.000	0.000	0.530	0.000	0.002
		B		0.000	0.000	1.307	0.000	0.013
		C		0.000	0.000	1.896	0.000	0.010
L67	12.667-12.500	A	0.772	0.000	0.000	0.354	0.000	0.002
		B		0.000	0.000	0.873	0.000	0.008
		C		0.000	0.000	1.266	0.000	0.006
L68	12.500-12.250	A	0.771	0.000	0.000	0.530	0.000	0.002
		B		0.000	0.000	1.306	0.000	0.013
		C		0.000	0.000	1.895	0.000	0.010
L69	12.250-12.000	A	0.769	0.000	0.000	0.530	0.000	0.002
		B		0.000	0.000	1.305	0.000	0.013
		C		0.000	0.000	1.894	0.000	0.010
L70	12.000-11.750	A	0.767	0.000	0.000	0.530	0.000	0.002
		B		0.000	0.000	1.304	0.000	0.013
		C		0.000	0.000	1.894	0.000	0.010
L71	11.750-8.500	A	0.755	0.000	0.000	5.560	0.000	0.033
		B		0.000	0.000	15.559	0.000	0.164
		C		0.000	0.000	20.669	0.000	0.113
L72	8.500-8.250	A	0.741	0.000	0.000	0.389	0.000	0.003
		B		0.000	0.000	1.152	0.000	0.013
		C		0.000	0.000	1.138	0.000	0.007
L73	8.250-7.000	A	0.734	0.000	0.000	1.941	0.000	0.013
		B		0.000	0.000	5.742	0.000	0.063
		C		0.000	0.000	5.681	0.000	0.035
L74	7.000-6.750	A	0.727	0.000	0.000	0.388	0.000	0.003
		B		0.000	0.000	1.145	0.000	0.012
		C		0.000	0.000	1.135	0.000	0.007
L75	6.750-1.750	A	0.692	0.000	0.000	7.693	0.000	0.050

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		B		0.000	0.000	18.841	0.000	0.227
		C		0.000	0.000	18.851	0.000	0.117
L76	1.750-0.000	A	0.591	0.000	0.000	2.631	0.000	0.015
		B		0.000	0.000	5.570	0.000	0.070
		C		0.000	0.000	5.765	0.000	0.033

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
L1	144.250-139.250	2.344	-1.002	2.476	-1.225
L2	139.250-134.750	2.389	-1.012	2.528	-1.233
L3	134.750-134.250	2.465	-1.044	2.612	-1.274
L4	134.250-129.250	1.823	-0.803	2.637	-1.347
L5	129.250-124.250	1.498	-0.792	2.371	-1.491
L6	124.250-123.416	0.905	-0.478	1.690	-1.063
L7	123.416-123.166	0.910	-0.481	1.701	-1.070
L8	123.166-118.166	1.012	-0.566	1.830	-1.179
L9	118.166-113.166	1.191	-0.715	2.055	-1.368
L10	113.166-109.500	0.412	-0.490	1.437	-1.148
L11	109.500-109.250	-0.497	-0.219	0.643	-0.848
L12	109.250-104.750	-0.435	-0.031	0.582	-0.643
L13	104.750-104.500	-0.336	0.793	0.479	0.167
L14	104.500-102.416	-0.340	0.801	0.483	0.169
L15	102.416-102.166	-0.349	0.821	0.487	0.171
L16	102.166-98.750	0.352	1.624	1.034	0.883
L17	98.750-98.500	0.745	2.115	1.218	1.381
L18	98.500-97.500	0.749	2.124	1.224	1.389
L19	97.500-97.250	0.752	2.133	1.229	1.395
L20	97.250-92.000	1.039	1.486	1.509	0.808
L21	92.000-90.552	1.140	1.274	1.609	0.615
L22	90.552-89.250	0.840	2.070	1.335	1.327
L23	89.250-89.000	0.715	2.028	1.205	1.376
L24	89.000-88.250	0.719	2.038	1.211	1.382
L25	88.250-88.000	0.723	2.050	1.217	1.390
L26	88.000-87.833	0.724	2.053	1.219	1.393
L27	87.833-87.583	0.725	2.055	1.221	1.395
L28	87.583-82.583	0.922	1.980	1.483	1.185
L29	82.583-77.583	0.993	1.583	1.581	0.828
L30	77.583-77.000	0.842	1.342	1.397	0.735
L31	77.000-76.750	0.845	1.347	1.401	0.737
L32	76.750-76.333	0.847	1.350	1.404	0.739
L33	76.333-76.083	0.849	1.353	1.407	0.741
L34	76.083-74.250	1.011	-0.289	1.554	-0.686
L35	74.250-74.000	1.161	-1.515	1.685	-1.752
L36	74.000-73.750	1.163	-1.518	1.687	-1.755
L37	73.750-73.500	1.165	-1.520	1.690	-1.758
L38	73.500-68.500	1.185	-1.546	1.716	-1.785
L39	68.500-63.500	1.223	-1.596	1.765	-1.838
L40	63.500-60.500	1.128	-1.472	1.644	-1.713
L41	60.500-60.250	1.063	-1.388	1.561	-1.626
L42	60.250-59.500	1.067	-1.392	1.565	-1.631
L43	59.500-59.250	1.024	-1.337	1.521	-1.585
L44	59.250-54.250	1.228	-1.603	1.760	-1.835
L45	54.250-45.802	1.301	-1.698	1.847	-1.928
L46	45.802-44.802	1.069	-0.655	1.634	-1.078

Section	Elevation	CP_X	CP_Z	CP_X Ice	CP_Z Ice
	ft	in	in	in	in
L47	44.802-43.583	0.535	0.922	1.095	0.284
L48	43.583-43.333	0.537	0.925	1.099	0.286
L49	43.333-43.166	0.538	0.926	1.100	0.287
L50	43.166-42.916	0.538	0.927	1.101	0.287
L51	42.916-39.000	0.898	1.164	1.419	0.513
L52	39.000-38.750	1.323	1.441	1.794	0.779
L53	38.750-37.166	1.329	1.448	1.801	0.783
L54	37.166-36.916	1.335	1.455	1.808	0.788
L55	36.916-34.000	0.786	0.523	1.322	-0.036
L56	34.000-33.750	0.430	-0.064	1.036	-0.562
L57	33.750-29.750	0.479	-0.071	1.139	-0.616
L58	29.750-29.500	0.510	-0.076	1.204	-0.650
L59	29.500-24.500	0.636	-0.178	1.310	-0.732
L60	24.500-23.000	1.427	-0.741	1.941	-1.154
L61	23.000-22.750	1.432	-0.744	1.947	-1.157
L62	22.750-21.583	1.436	-0.746	1.952	-1.160
L63	21.583-21.333	1.440	-0.748	1.956	-1.162
L64	21.333-16.333	0.767	-0.360	1.392	-0.840
L65	16.333-12.917	-1.474	0.756	-0.568	0.158
L66	12.917-12.667	-1.486	0.761	-0.581	0.165
L67	12.667-12.500	-1.487	0.762	-0.583	0.166
L68	12.500-12.250	-1.488	0.762	-0.585	0.167
L69	12.250-12.000	-1.489	0.763	-0.587	0.168
L70	12.000-11.750	-1.491	0.763	-0.589	0.169
L71	11.750-8.500	-1.958	0.995	-0.902	0.426
L72	8.500-8.250	-1.660	0.076	-0.539	-0.351
L73	8.250-7.000	-1.665	0.076	-0.549	-0.348
L74	7.000-6.750	-1.670	0.076	-0.560	-0.345
L75	6.750-1.750	-0.713	0.086	0.345	-0.364
L76	1.750-0.000	-0.091	0.092	0.828	-0.327

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_a No Ice	K_a Ice
L1	2	FB-L98B-034-XXX(3/8)	139.25 - 144.00	1.0000	1.0000
L1	3	PWRT-608-S(13/16)	139.25 - 144.00	1.0000	1.0000
L1	4	PWRT-606-S(7/8)	139.25 - 144.00	1.0000	1.0000
L1	5	RFFT-48SM-001-XXX(3/8)	139.25 - 144.00	1.0000	1.0000
L1	27	Safety Line 3/8	139.25 - 144.25	1.0000	1.0000
L2	2	FB-L98B-034-XXX(3/8)	134.75 - 139.25	1.0000	1.0000
L2	3	PWRT-608-S(13/16)	134.75 - 139.25	1.0000	1.0000
L2	4	PWRT-606-S(7/8)	134.75 - 139.25	1.0000	1.0000
L2	5	RFFT-48SM-001-XXX(3/8)	134.75 - 139.25	1.0000	1.0000
L2	27	Safety Line 3/8	134.75 - 139.25	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L3	2	FB-L98B-034-XXX(3/8)	134.25 - 134.75	1.0000	1.0000
L3	3	PWRT-608-S(13/16)	134.25 - 134.75	1.0000	1.0000
L3	4	PWRT-606-S(7/8)	134.25 - 134.75	1.0000	1.0000
L3	5	RFFT-48SM-001-XXX(3/8)	134.25 - 134.75	1.0000	1.0000
L3	27	Safety Line 3/8	134.25 - 134.75	1.0000	1.0000
L4	2	FB-L98B-034-XXX(3/8)	129.25 - 134.25	1.0000	1.0000
L4	3	PWRT-608-S(13/16)	129.25 - 134.25	1.0000	1.0000
L4	4	PWRT-606-S(7/8)	129.25 - 134.25	1.0000	1.0000
L4	5	RFFT-48SM-001-XXX(3/8)	129.25 - 134.25	1.0000	1.0000
L4	7	7983A(ELLIPTICAL)	129.25 - 130.00	1.0000	1.0000
L4	27	Safety Line 3/8	129.25 - 134.25	1.0000	1.0000
L5	2	FB-L98B-034-XXX(3/8)	124.25 - 129.25	1.0000	1.0000
L5	3	PWRT-608-S(13/16)	124.25 - 129.25	1.0000	1.0000
L5	4	PWRT-606-S(7/8)	124.25 - 129.25	1.0000	1.0000
L5	5	RFFT-48SM-001-XXX(3/8)	124.25 - 129.25	1.0000	1.0000
L5	7	7983A(ELLIPTICAL)	124.25 - 129.25	1.0000	1.0000
L5	27	Safety Line 3/8	124.25 - 129.25	1.0000	1.0000
L5	93	CCI-AFP-045100	124.25 - 125.42	1.0000	1.0000
L5	94	CCI-AFP-045100	124.25 - 125.42	1.0000	1.0000
L5	95	CCI-AFP-045100	124.25 - 125.42	1.0000	1.0000
L6	2	FB-L98B-034-XXX(3/8)	123.42 - 124.25	1.0000	1.0000
L6	3	PWRT-608-S(13/16)	123.42 - 124.25	1.0000	1.0000
L6	4	PWRT-606-S(7/8)	123.42 - 124.25	1.0000	1.0000
L6	5	RFFT-48SM-001-XXX(3/8)	123.42 - 124.25	1.0000	1.0000
L6	7	7983A(ELLIPTICAL)	123.42 - 124.25	1.0000	1.0000
L6	27	Safety Line 3/8	123.42 - 124.25	1.0000	1.0000
L6	93	CCI-AFP-045100	123.42 - 124.25	1.0000	1.0000
L6	94	CCI-AFP-045100	123.42 - 124.25	1.0000	1.0000
L6	95	CCI-AFP-045100	123.42 - 124.25	1.0000	1.0000
L7	2	FB-L98B-034-XXX(3/8)	123.17 - 123.42	1.0000	1.0000
L7	3	PWRT-608-S(13/16)	123.17 - 123.42	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L7	4	PWRT-606-S(7/8)	123.17 - 123.42	1.0000	1.0000
L7	5	RFFT-48SM-001-XXX(3/8)	123.17 - 123.42	1.0000	1.0000
L7	7	7983A(ELLIPTICAL)	123.17 - 123.42	1.0000	1.0000
L7	27	Safety Line 3/8	123.17 - 123.42	1.0000	1.0000
L7	93	CCI-AFP-045100	123.17 - 123.42	1.0000	1.0000
L7	94	CCI-AFP-045100	123.17 - 123.42	1.0000	1.0000
L7	95	CCI-AFP-045100	123.17 - 123.42	1.0000	1.0000
L8	2	FB-L98B-034-XXX(3/8)	118.17 - 123.17	1.0000	1.0000
L8	3	PWRT-608-S(13/16)	118.17 - 123.17	1.0000	1.0000
L8	4	PWRT-606-S(7/8)	118.17 - 123.17	1.0000	1.0000
L8	5	RFFT-48SM-001-XXX(3/8)	118.17 - 123.17	1.0000	1.0000
L8	7	7983A(ELLIPTICAL)	118.17 - 123.17	1.0000	1.0000
L8	12	CU12PSM9P6XXX(1-1/2)	118.17 - 120.00	1.0000	1.0000
L8	27	Safety Line 3/8	118.17 - 123.17	1.0000	1.0000
L8	93	CCI-AFP-045100	118.17 - 123.17	1.0000	1.0000
L8	94	CCI-AFP-045100	118.17 - 123.17	1.0000	1.0000
L8	95	CCI-AFP-045100	118.17 - 123.17	1.0000	1.0000
L9	2	FB-L98B-034-XXX(3/8)	113.17 - 118.17	1.0000	1.0000
L9	3	PWRT-608-S(13/16)	113.17 - 118.17	1.0000	1.0000
L9	4	PWRT-606-S(7/8)	113.17 - 118.17	1.0000	1.0000
L9	5	RFFT-48SM-001-XXX(3/8)	113.17 - 118.17	1.0000	1.0000
L9	7	7983A(ELLIPTICAL)	113.17 - 118.17	1.0000	1.0000
L9	12	CU12PSM9P6XXX(1-1/2)	113.17 - 118.17	1.0000	1.0000
L9	27	Safety Line 3/8	113.17 - 118.17	1.0000	1.0000
L9	93	CCI-AFP-045100	113.17 - 118.17	1.0000	1.0000
L9	94	CCI-AFP-045100	113.17 - 118.17	1.0000	1.0000
L9	95	CCI-AFP-045100	113.17 - 118.17	1.0000	1.0000
L10	2	FB-L98B-034-XXX(3/8)	109.50 - 113.17	1.0000	1.0000
L10	3	PWRT-608-S(13/16)	109.50 - 113.17	1.0000	1.0000
L10	4	PWRT-606-S(7/8)	109.50 - 113.17	1.0000	1.0000
L10	5	RFFT-48SM-001-XXX(3/8)	109.50 - 113.17	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L10	7	7983A(ELLIPTICAL)	109.50 - 113.17	1.0000	1.0000
L10	12	CU12PSM9P6XXX(1-1/2)	109.50 - 113.17	1.0000	1.0000
L10	27	Safety Line 3/8	109.50 - 113.17	1.0000	1.0000
L10	93	CCI-AFP-045100	109.50 - 113.17	1.0000	1.0000
L10	94	CCI-AFP-045100	109.50 - 113.17	1.0000	1.0000
L10	95	CCI-AFP-045100	109.50 - 113.17	1.0000	1.0000
L10	97	CCI-AFP-040075	109.50 - 111.00	1.0000	1.0000
L10	99	CCI-AFP-040075	109.50 - 111.00	1.0000	1.0000
L11	2	FB-L98B-034-XXX(3/8)	109.25 - 109.50	1.0000	1.0000
L11	3	PWRT-608-S(13/16)	109.25 - 109.50	1.0000	1.0000
L11	4	PWRT-606-S(7/8)	109.25 - 109.50	1.0000	1.0000
L11	5	RFFT-48SM-001-XXX(3/8)	109.25 - 109.50	1.0000	1.0000
L11	7	7983A(ELLIPTICAL)	109.25 - 109.50	1.0000	1.0000
L11	12	CU12PSM9P6XXX(1-1/2)	109.25 - 109.50	1.0000	1.0000
L11	27	Safety Line 3/8	109.25 - 109.50	1.0000	1.0000
L11	93	CCI-AFP-045100	109.25 - 109.50	1.0000	1.0000
L11	94	CCI-AFP-045100	109.25 - 109.50	1.0000	1.0000
L11	95	CCI-AFP-045100	109.25 - 109.50	1.0000	1.0000
L11	97	CCI-AFP-040075	109.25 - 109.50	1.0000	1.0000
L11	99	CCI-AFP-040075	109.25 - 109.50	1.0000	1.0000
L12	2	FB-L98B-034-XXX(3/8)	104.75 - 109.25	1.0000	1.0000
L12	3	PWRT-608-S(13/16)	104.75 - 109.25	1.0000	1.0000
L12	4	PWRT-606-S(7/8)	104.75 - 109.25	1.0000	1.0000
L12	5	RFFT-48SM-001-XXX(3/8)	104.75 - 109.25	1.0000	1.0000
L12	7	7983A(ELLIPTICAL)	104.75 - 109.25	1.0000	1.0000
L12	12	CU12PSM9P6XXX(1-1/2)	104.75 - 109.25	1.0000	1.0000
L12	27	Safety Line 3/8	104.75 - 109.25	1.0000	1.0000
L12	59	PL1x4 Reinforcement	104.75 - 106.50	1.0000	1.0000
L12	60	PL1x4 Reinforcement	104.75 - 106.50	1.0000	1.0000
L12	61	PL1x4 Reinforcement	104.75 - 106.50	1.0000	1.0000
L12	91	CCI-AFP-05012520	104.75 - 105.33	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L12	93	CCI-AFP-045100	104.75 - 109.25	1.0000	1.0000
L12	94	CCI-AFP-045100	104.75 - 109.25	1.0000	1.0000
L12	95	CCI-AFP-045100	104.75 - 109.25	1.0000	1.0000
L12	97	CCI-AFP-040075	104.75 - 109.25	1.0000	1.0000
L12	99	CCI-AFP-040075	104.75 - 109.25	1.0000	1.0000
L13	2	FB-L98B-034-XXX(3/8)	104.50 - 104.75	1.0000	1.0000
L13	3	PWRT-608-S(13/16)	104.50 - 104.75	1.0000	1.0000
L13	4	PWRT-606-S(7/8)	104.50 - 104.75	1.0000	1.0000
L13	5	RFFT-48SM-001-XXX(3/8)	104.50 - 104.75	1.0000	1.0000
L13	7	7983A(ELLIPTICAL)	104.50 - 104.75	1.0000	1.0000
L13	12	CU12PSM9P6XXX(1-1/2)	104.50 - 104.75	1.0000	1.0000
L13	27	Safety Line 3/8	104.50 - 104.75	1.0000	1.0000
L13	59	PL1x4 Reinforcement	104.50 - 104.75	1.0000	1.0000
L13	60	PL1x4 Reinforcement	104.50 - 104.75	1.0000	1.0000
L13	61	PL1x4 Reinforcement	104.50 - 104.75	1.0000	1.0000
L13	91	CCI-AFP-05012520	104.50 - 104.75	1.0000	1.0000
L13	93	CCI-AFP-045100	104.50 - 104.75	1.0000	1.0000
L13	94	CCI-AFP-045100	104.50 - 104.75	1.0000	1.0000
L13	95	CCI-AFP-045100	104.50 - 104.75	1.0000	1.0000
L13	97	CCI-AFP-040075	104.50 - 104.75	1.0000	1.0000
L13	99	CCI-AFP-040075	104.50 - 104.75	1.0000	1.0000
L14	2	FB-L98B-034-XXX(3/8)	102.42 - 104.50	1.0000	1.0000
L14	3	PWRT-608-S(13/16)	102.42 - 104.50	1.0000	1.0000
L14	4	PWRT-606-S(7/8)	102.42 - 104.50	1.0000	1.0000
L14	5	RFFT-48SM-001-XXX(3/8)	102.42 - 104.50	1.0000	1.0000
L14	7	7983A(ELLIPTICAL)	102.42 - 104.50	1.0000	1.0000
L14	12	CU12PSM9P6XXX(1-1/2)	102.42 - 104.50	1.0000	1.0000
L14	27	Safety Line 3/8	102.42 - 104.50	1.0000	1.0000
L14	59	PL1x4 Reinforcement	102.42 - 104.50	1.0000	1.0000
L14	60	PL1x4 Reinforcement	102.42 - 104.50	1.0000	1.0000
L14	61	PL1x4 Reinforcement	102.42 - 104.50	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L14	91	CCI-AFP-05012520	102.42 - 104.50	1.0000	1.0000
L14	93	CCI-AFP-045100	102.42 - 104.50	1.0000	1.0000
L14	94	CCI-AFP-045100	102.42 - 104.50	1.0000	1.0000
L14	95	CCI-AFP-045100	102.42 - 104.50	1.0000	1.0000
L14	97	CCI-AFP-040075	102.42 - 104.50	1.0000	1.0000
L14	99	CCI-AFP-040075	102.42 - 104.50	1.0000	1.0000
L15	2	FB-L98B-034-XXX(3/8)	102.17 - 102.42	1.0000	1.0000
L15	3	PWRT-608-S(13/16)	102.17 - 102.42	1.0000	1.0000
L15	4	PWRT-606-S(7/8)	102.17 - 102.42	1.0000	1.0000
L15	5	RFFT-48SM-001-XXX(3/8)	102.17 - 102.42	1.0000	1.0000
L15	7	7983A(ELLIPTICAL)	102.17 - 102.42	1.0000	1.0000
L15	12	CU12PSM9P6XXX(1-1/2)	102.17 - 102.42	1.0000	1.0000
L15	27	Safety Line 3/8	102.17 - 102.42	1.0000	1.0000
L15	59	PL1x4 Reinforcement	102.17 - 102.42	1.0000	1.0000
L15	60	PL1x4 Reinforcement	102.17 - 102.42	1.0000	1.0000
L15	61	PL1x4 Reinforcement	102.17 - 102.42	1.0000	1.0000
L15	91	CCI-AFP-05012520	102.17 - 102.42	1.0000	1.0000
L15	93	CCI-AFP-045100	102.17 - 102.42	1.0000	1.0000
L15	94	CCI-AFP-045100	102.17 - 102.42	1.0000	1.0000
L15	95	CCI-AFP-045100	102.17 - 102.42	1.0000	1.0000
L15	97	CCI-AFP-040075	102.17 - 102.42	1.0000	1.0000
L15	99	CCI-AFP-040075	102.17 - 102.42	1.0000	1.0000
L16	2	FB-L98B-034-XXX(3/8)	98.75 - 102.17	1.0000	1.0000
L16	3	PWRT-608-S(13/16)	98.75 - 102.17	1.0000	1.0000
L16	4	PWRT-606-S(7/8)	98.75 - 102.17	1.0000	1.0000
L16	5	RFFT-48SM-001-XXX(3/8)	98.75 - 102.17	1.0000	1.0000
L16	7	7983A(ELLIPTICAL)	98.75 - 102.17	1.0000	1.0000
L16	12	CU12PSM9P6XXX(1-1/2)	98.75 - 102.17	1.0000	1.0000
L16	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	98.75 - 100.00	1.0000	1.0000
L16	27	Safety Line 3/8	98.75 - 102.17	1.0000	1.0000
L16	43	PL1.25x3.625 Reinforcement	98.75 - 100.00	1.0000	1.0000
L16	44	PL1.25x3.625 Reinforcement	98.75 - 100.00	1.0000	1.0000
L16	45	PL1.25x3.625 Reinforcement	98.75 - 100.00	1.0000	1.0000
L16	59	PL1x4 Reinforcement	98.75 - 102.17	1.0000	1.0000
L16	60	PL1x4 Reinforcement	98.75 - 102.17	1.0000	1.0000
L16	61	PL1x4 Reinforcement	98.75 - 102.17	1.0000	1.0000
L16	86	CCI-SFP-040075	98.75 - 100.33	1.0000	1.0000
L16	87	CCI-SFP-040075	98.75 - 100.33	1.0000	1.0000
L16	91	CCI-AFP-05012520	98.75 - 102.17	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L16	93	CCI-AFP-045100	100.42 - 102.17	1.0000	1.0000
L16	94	CCI-AFP-045100	100.42 - 102.17	1.0000	1.0000
L16	95	CCI-AFP-045100	100.42 - 102.17	1.0000	1.0000
L16	97	CCI-AFP-040075	98.75 - 102.17	1.0000	1.0000
L16	99	CCI-AFP-040075	101.00 - 102.17	1.0000	1.0000
L17	2	FB-L98B-034-XXX(3/8)	98.50 - 98.75	1.0000	1.0000
L17	3	PWRT-608-S(13/16)	98.50 - 98.75	1.0000	1.0000
L17	4	PWRT-606-S(7/8)	98.50 - 98.75	1.0000	1.0000
L17	5	RFFT-48SM-001-XXX(3/8)	98.50 - 98.75	1.0000	1.0000
L17	7	7983A(ELLIPTICAL)	98.50 - 98.75	1.0000	1.0000
L17	12	CU12PSM9P6XXX(1-1/2)	98.50 - 98.75	1.0000	1.0000
L17	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	98.50 - 98.75	1.0000	1.0000
L17	27	Safety Line 3/8	98.50 - 98.75	1.0000	1.0000
L17	43	PL1.25x3.625 Reinforcement	98.50 - 98.75	1.0000	1.0000
L17	44	PL1.25x3.625 Reinforcement	98.50 - 98.75	1.0000	1.0000
L17	45	PL1.25x3.625 Reinforcement	98.50 - 98.75	1.0000	1.0000
L17	59	PL1x4 Reinforcement	98.50 - 98.75	1.0000	1.0000
L17	60	PL1x4 Reinforcement	98.50 - 98.75	1.0000	1.0000
L17	61	PL1x4 Reinforcement	98.50 - 98.75	1.0000	1.0000
L17	86	CCI-SFP-040075	98.50 - 98.75	1.0000	1.0000
L17	87	CCI-SFP-040075	98.50 - 98.75	1.0000	1.0000
L17	91	CCI-AFP-05012520	98.50 - 98.75	1.0000	1.0000
L17	97	CCI-AFP-040075	98.50 - 98.75	1.0000	1.0000
L18	2	FB-L98B-034-XXX(3/8)	97.50 - 98.50	1.0000	1.0000
L18	3	PWRT-608-S(13/16)	97.50 - 98.50	1.0000	1.0000
L18	4	PWRT-606-S(7/8)	97.50 - 98.50	1.0000	1.0000
L18	5	RFFT-48SM-001-XXX(3/8)	97.50 - 98.50	1.0000	1.0000
L18	7	7983A(ELLIPTICAL)	97.50 - 98.50	1.0000	1.0000
L18	12	CU12PSM9P6XXX(1-1/2)	97.50 - 98.50	1.0000	1.0000
L18	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	97.50 - 98.50	1.0000	1.0000
L18	27	Safety Line 3/8	97.50 - 98.50	1.0000	1.0000
L18	43	PL1.25x3.625 Reinforcement	97.50 - 98.50	1.0000	1.0000
L18	44	PL1.25x3.625 Reinforcement	97.50 - 98.50	1.0000	1.0000
L18	45	PL1.25x3.625 Reinforcement	97.50 - 98.50	1.0000	1.0000
L18	59	PL1x4 Reinforcement	97.50 - 98.50	1.0000	1.0000
L18	60	PL1x4 Reinforcement	97.50 - 98.50	1.0000	1.0000
L18	61	PL1x4 Reinforcement	97.50 - 98.50	1.0000	1.0000
L18	86	CCI-SFP-040075	97.50 - 98.50	1.0000	1.0000
L18	87	CCI-SFP-040075	97.50 - 98.50	1.0000	1.0000
L18	91	CCI-AFP-05012520	97.50 - 98.50	1.0000	1.0000
L18	97	CCI-AFP-040075	97.50 - 98.50	1.0000	1.0000
L19	2	FB-L98B-034-XXX(3/8)	97.25 - 97.50	1.0000	1.0000
L19	3	PWRT-608-S(13/16)	97.25 - 97.50	1.0000	1.0000
L19	4	PWRT-606-S(7/8)	97.25 - 97.50	1.0000	1.0000
L19	5	RFFT-48SM-001-XXX(3/8)	97.25 - 97.50	1.0000	1.0000
L19	7	7983A(ELLIPTICAL)	97.25 - 97.50	1.0000	1.0000
L19	12	CU12PSM9P6XXX(1-1/2)	97.25 - 97.50	1.0000	1.0000
L19	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	97.25 - 97.50	1.0000	1.0000
L19	27	Safety Line 3/8	97.25 - 97.50	1.0000	1.0000
L19	43	PL1.25x3.625 Reinforcement	97.25 - 97.50	1.0000	1.0000
L19	44	PL1.25x3.625 Reinforcement	97.25 - 97.50	1.0000	1.0000
L19	45	PL1.25x3.625 Reinforcement	97.25 - 97.50	1.0000	1.0000
L19	59	PL1x4 Reinforcement	97.25 - 97.50	1.0000	1.0000
L19	60	PL1x4 Reinforcement	97.25 - 97.50	1.0000	1.0000
L19	61	PL1x4 Reinforcement	97.25 - 97.50	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L19	86	CCI-SFP-040075	97.25 - 97.50	1.0000	1.0000
L19	87	CCI-SFP-040075	97.25 - 97.50	1.0000	1.0000
L19	91	CCI-AFP-05012520	97.25 - 97.50	1.0000	1.0000
L19	97	CCI-AFP-040075	97.25 - 97.50	1.0000	1.0000
L20	2	FB-L98B-034-XXX(3/8)	92.00 - 97.25	1.0000	1.0000
L20	3	PWRT-608-S(13/16)	92.00 - 97.25	1.0000	1.0000
L20	4	PWRT-606-S(7/8)	92.00 - 97.25	1.0000	1.0000
L20	5	RFFT-48SM-001-XXX(3/8)	92.00 - 97.25	1.0000	1.0000
L20	7	7983A(ELLIPTICAL)	92.00 - 97.25	1.0000	1.0000
L20	12	CU12PSM9P6XXX(1-1/2)	92.00 - 97.25	1.0000	1.0000
L20	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	92.00 - 97.25	1.0000	1.0000
L20	27	Safety Line 3/8	92.00 - 97.25	1.0000	1.0000
L20	43	PL1.25x3.625 Reinforcement	92.00 - 97.25	1.0000	1.0000
L20	44	PL1.25x3.625 Reinforcement	92.00 - 97.25	1.0000	1.0000
L20	45	PL1.25x3.625 Reinforcement	92.00 - 97.25	1.0000	1.0000
L20	59	PL1x4 Reinforcement	92.00 - 97.25	1.0000	1.0000
L20	60	PL1x4 Reinforcement	92.00 - 97.25	1.0000	1.0000
L20	61	PL1x4 Reinforcement	92.00 - 97.25	1.0000	1.0000
L20	86	CCI-SFP-040075	92.00 - 97.25	1.0000	1.0000
L20	87	CCI-SFP-040075	92.00 - 97.25	1.0000	1.0000
L20	91	CCI-AFP-05012520	92.00 - 97.25	1.0000	1.0000
L20	97	CCI-AFP-040075	96.00 - 97.25	1.0000	1.0000
L21	2	FB-L98B-034-XXX(3/8)	90.55 - 92.00	1.0000	1.0000
L21	3	PWRT-608-S(13/16)	90.55 - 92.00	1.0000	1.0000
L21	4	PWRT-606-S(7/8)	90.55 - 92.00	1.0000	1.0000
L21	5	RFFT-48SM-001-XXX(3/8)	90.55 - 92.00	1.0000	1.0000
L21	7	7983A(ELLIPTICAL)	90.55 - 92.00	1.0000	1.0000
L21	12	CU12PSM9P6XXX(1-1/2)	90.55 - 92.00	1.0000	1.0000
L21	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	90.55 - 92.00	1.0000	1.0000
L21	27	Safety Line 3/8	90.55 - 92.00	1.0000	1.0000
L21	43	PL1.25x3.625 Reinforcement	90.55 - 92.00	1.0000	1.0000
L21	44	PL1.25x3.625 Reinforcement	90.55 - 92.00	1.0000	1.0000
L21	45	PL1.25x3.625 Reinforcement	90.55 - 92.00	1.0000	1.0000
L21	59	PL1x4 Reinforcement	90.55 - 92.00	1.0000	1.0000
L21	60	PL1x4 Reinforcement	90.55 - 92.00	1.0000	1.0000
L21	61	PL1x4 Reinforcement	90.55 - 92.00	1.0000	1.0000
L21	86	CCI-SFP-040075	90.55 - 92.00	1.0000	1.0000
L21	87	CCI-SFP-040075	90.55 - 92.00	1.0000	1.0000
L21	91	CCI-AFP-05012520	90.55 - 92.00	1.0000	1.0000
L22	2	FB-L98B-034-XXX(3/8)	89.25 - 90.55	1.0000	1.0000
L22	3	PWRT-608-S(13/16)	89.25 - 90.55	1.0000	1.0000
L22	4	PWRT-606-S(7/8)	89.25 - 90.55	1.0000	1.0000
L22	5	RFFT-48SM-001-XXX(3/8)	89.25 - 90.55	1.0000	1.0000
L22	7	7983A(ELLIPTICAL)	89.25 - 90.55	1.0000	1.0000
L22	12	CU12PSM9P6XXX(1-1/2)	89.25 - 90.55	1.0000	1.0000
L22	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	89.25 - 90.55	1.0000	1.0000
L22	27	Safety Line 3/8	89.25 - 90.55	1.0000	1.0000
L22	43	PL1.25x3.625 Reinforcement	89.25 - 90.55	1.0000	1.0000
L22	44	PL1.25x3.625 Reinforcement	89.25 - 90.55	1.0000	1.0000
L22	45	PL1.25x3.625 Reinforcement	89.25 - 90.55	1.0000	1.0000
L22	59	PL1x4 Reinforcement	89.25 - 90.55	1.0000	1.0000
L22	60	PL1x4 Reinforcement	89.25 - 90.55	1.0000	1.0000
L22	61	PL1x4 Reinforcement	89.25 - 90.55	1.0000	1.0000
L22	86	CCI-SFP-040075	89.25 - 90.55	1.0000	1.0000
L22	87	CCI-SFP-040075	89.25 - 90.55	1.0000	1.0000
L22	89	CCI-SFP-040075	89.25 - 90.33	1.0000	1.0000
L22	91	CCI-AFP-05012520	89.25 - 90.55	1.0000	1.0000
L23	2	FB-L98B-034-XXX(3/8)	89.00 - 89.25	1.0000	1.0000
L23	3	PWRT-608-S(13/16)	89.00 - 89.25	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L23	4	PWRT-606-S(7/8)	89.00 - 89.25	1.0000	1.0000
L23	5	RFFT-48SM-001-XXX(3/8)	89.00 - 89.25	1.0000	1.0000
L23	7	7983A(ELLIPTICAL)	89.00 - 89.25	1.0000	1.0000
L23	12	CU12PSM9P6XXX(1-1/2)	89.00 - 89.25	1.0000	1.0000
L23	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	89.00 - 89.25	1.0000	1.0000
L23	27	Safety Line 3/8	89.00 - 89.25	1.0000	1.0000
L23	39	PL1.25x5.5 Reinforcement	89.00 - 89.25	1.0000	1.0000
L23	40	PL1.25x5.5 Reinforcement	89.00 - 89.25	1.0000	1.0000
L23	41	PL1.25x5.5 Reinforcement	89.00 - 89.25	1.0000	1.0000
L23	59	PL1x4 Reinforcement	89.00 - 89.25	1.0000	1.0000
L23	60	PL1x4 Reinforcement	89.00 - 89.25	1.0000	1.0000
L23	61	PL1x4 Reinforcement	89.00 - 89.25	1.0000	1.0000
L23	86	CCI-SFP-040075	89.00 - 89.25	1.0000	1.0000
L23	87	CCI-SFP-040075	89.00 - 89.25	1.0000	1.0000
L23	89	CCI-SFP-040075	89.00 - 89.25	1.0000	1.0000
L23	91	CCI-AFP-05012520	89.00 - 89.25	1.0000	1.0000
L24	2	FB-L98B-034-XXX(3/8)	88.25 - 89.00	1.0000	1.0000
L24	3	PWRT-608-S(13/16)	88.25 - 89.00	1.0000	1.0000
L24	4	PWRT-606-S(7/8)	88.25 - 89.00	1.0000	1.0000
L24	5	RFFT-48SM-001-XXX(3/8)	88.25 - 89.00	1.0000	1.0000
L24	7	7983A(ELLIPTICAL)	88.25 - 89.00	1.0000	1.0000
L24	12	CU12PSM9P6XXX(1-1/2)	88.25 - 89.00	1.0000	1.0000
L24	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	88.25 - 89.00	1.0000	1.0000
L24	27	Safety Line 3/8	88.25 - 89.00	1.0000	1.0000
L24	39	PL1.25x5.5 Reinforcement	88.25 - 89.00	1.0000	1.0000
L24	40	PL1.25x5.5 Reinforcement	88.25 - 89.00	1.0000	1.0000
L24	41	PL1.25x5.5 Reinforcement	88.25 - 89.00	1.0000	1.0000
L24	59	PL1x4 Reinforcement	88.25 - 89.00	1.0000	1.0000
L24	60	PL1x4 Reinforcement	88.25 - 89.00	1.0000	1.0000
L24	61	PL1x4 Reinforcement	88.25 - 89.00	1.0000	1.0000
L24	86	CCI-SFP-040075	88.25 - 89.00	1.0000	1.0000
L24	87	CCI-SFP-040075	88.25 - 89.00	1.0000	1.0000
L24	89	CCI-SFP-040075	88.25 - 89.00	1.0000	1.0000
L24	91	CCI-AFP-05012520	88.25 - 89.00	1.0000	1.0000
L25	2	FB-L98B-034-XXX(3/8)	88.00 - 88.25	1.0000	1.0000
L25	3	PWRT-608-S(13/16)	88.00 - 88.25	1.0000	1.0000
L25	4	PWRT-606-S(7/8)	88.00 - 88.25	1.0000	1.0000
L25	5	RFFT-48SM-001-XXX(3/8)	88.00 - 88.25	1.0000	1.0000
L25	7	7983A(ELLIPTICAL)	88.00 - 88.25	1.0000	1.0000
L25	12	CU12PSM9P6XXX(1-1/2)	88.00 - 88.25	1.0000	1.0000
L25	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	88.00 - 88.25	1.0000	1.0000
L25	27	Safety Line 3/8	88.00 - 88.25	1.0000	1.0000
L25	39	PL1.25x5.5 Reinforcement	88.00 - 88.25	1.0000	1.0000
L25	40	PL1.25x5.5 Reinforcement	88.00 - 88.25	1.0000	1.0000
L25	41	PL1.25x5.5 Reinforcement	88.00 - 88.25	1.0000	1.0000
L25	59	PL1x4 Reinforcement	88.00 - 88.25	1.0000	1.0000
L25	60	PL1x4 Reinforcement	88.00 - 88.25	1.0000	1.0000
L25	61	PL1x4 Reinforcement	88.00 - 88.25	1.0000	1.0000
L25	86	CCI-SFP-040075	88.00 - 88.25	1.0000	1.0000
L25	87	CCI-SFP-040075	88.00 - 88.25	1.0000	1.0000
L25	89	CCI-SFP-040075	88.00 - 88.25	1.0000	1.0000
L25	91	CCI-AFP-05012520	88.00 - 88.25	1.0000	1.0000
L26	2	FB-L98B-034-XXX(3/8)	87.83 - 88.00	1.0000	1.0000
L26	3	PWRT-608-S(13/16)	87.83 - 88.00	1.0000	1.0000
L26	4	PWRT-606-S(7/8)	87.83 - 88.00	1.0000	1.0000
L26	5	RFFT-48SM-001-XXX(3/8)	87.83 - 88.00	1.0000	1.0000
L26	7	7983A(ELLIPTICAL)	87.83 - 88.00	1.0000	1.0000
L26	12	CU12PSM9P6XXX(1-1/2)	87.83 - 88.00	1.0000	1.0000
L26	21	MLC HYBRID 6X12	87.83 - 88.00	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
		6AWGX6(1-1/2)			
L26	27	Safety Line 3/8	87.83 - 88.00	1.0000	1.0000
L26	39	PL1.25x5.5 Reinforcement	87.83 - 88.00	1.0000	1.0000
L26	40	PL1.25x5.5 Reinforcement	87.83 - 88.00	1.0000	1.0000
L26	41	PL1.25x5.5 Reinforcement	87.83 - 88.00	1.0000	1.0000
L26	59	PL1x4 Reinforcement	87.83 - 88.00	1.0000	1.0000
L26	60	PL1x4 Reinforcement	87.83 - 88.00	1.0000	1.0000
L26	61	PL1x4 Reinforcement	87.83 - 88.00	1.0000	1.0000
L26	86	CCI-SFP-040075	87.83 - 88.00	1.0000	1.0000
L26	87	CCI-SFP-040075	87.83 - 88.00	1.0000	1.0000
L26	89	CCI-SFP-040075	87.83 - 88.00	1.0000	1.0000
L26	91	CCI-AFP-05012520	87.83 - 88.00	1.0000	1.0000
L27	2	FB-L98B-034-XXX(3/8)	87.58 - 87.83	1.0000	1.0000
L27	3	PWRT-608-S(13/16)	87.58 - 87.83	1.0000	1.0000
L27	4	PWRT-606-S(7/8)	87.58 - 87.83	1.0000	1.0000
L27	5	RFFT-48SM-001-XXX(3/8)	87.58 - 87.83	1.0000	1.0000
L27	7	7983A(ELLIPTICAL)	87.58 - 87.83	1.0000	1.0000
L27	12	CU12PSM9P6XXX(1-1/2)	87.58 - 87.83	1.0000	1.0000
L27	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	87.58 - 87.83	1.0000	1.0000
L27	27	Safety Line 3/8	87.58 - 87.83	1.0000	1.0000
L27	39	PL1.25x5.5 Reinforcement	87.58 - 87.83	1.0000	1.0000
L27	40	PL1.25x5.5 Reinforcement	87.58 - 87.83	1.0000	1.0000
L27	41	PL1.25x5.5 Reinforcement	87.58 - 87.83	1.0000	1.0000
L27	59	PL1x4 Reinforcement	87.58 - 87.83	1.0000	1.0000
L27	60	PL1x4 Reinforcement	87.58 - 87.83	1.0000	1.0000
L27	61	PL1x4 Reinforcement	87.58 - 87.83	1.0000	1.0000
L27	86	CCI-SFP-040075	87.58 - 87.83	1.0000	1.0000
L27	87	CCI-SFP-040075	87.58 - 87.83	1.0000	1.0000
L27	89	CCI-SFP-040075	87.58 - 87.83	1.0000	1.0000
L27	91	CCI-AFP-05012520	87.58 - 87.83	1.0000	1.0000
L28	2	FB-L98B-034-XXX(3/8)	82.58 - 87.58	1.0000	1.0000
L28	3	PWRT-608-S(13/16)	82.58 - 87.58	1.0000	1.0000
L28	4	PWRT-606-S(7/8)	82.58 - 87.58	1.0000	1.0000
L28	5	RFFT-48SM-001-XXX(3/8)	82.58 - 87.58	1.0000	1.0000
L28	7	7983A(ELLIPTICAL)	82.58 - 87.58	1.0000	1.0000
L28	12	CU12PSM9P6XXX(1-1/2)	82.58 - 87.58	1.0000	1.0000
L28	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	82.58 - 87.58	1.0000	1.0000
L28	27	Safety Line 3/8	82.58 - 87.58	1.0000	1.0000
L28	39	PL1.25x5.5 Reinforcement	82.58 - 87.58	1.0000	1.0000
L28	40	PL1.25x5.5 Reinforcement	82.58 - 87.58	1.0000	1.0000
L28	41	PL1.25x5.5 Reinforcement	82.58 - 87.58	1.0000	1.0000
L28	59	PL1x4 Reinforcement	86.50 - 87.58	1.0000	1.0000
L28	60	PL1x4 Reinforcement	86.50 - 87.58	1.0000	1.0000
L28	61	PL1x4 Reinforcement	86.50 - 87.58	1.0000	1.0000
L28	86	CCI-SFP-040075	82.58 - 87.58	1.0000	1.0000
L28	87	CCI-SFP-040075	82.58 - 87.58	1.0000	1.0000
L28	89	CCI-SFP-040075	82.58 - 87.58	1.0000	1.0000
L28	91	CCI-AFP-05012520	85.33 - 87.58	1.0000	1.0000
L29	2	FB-L98B-034-XXX(3/8)	77.58 - 82.58	1.0000	1.0000
L29	3	PWRT-608-S(13/16)	77.58 - 82.58	1.0000	1.0000
L29	4	PWRT-606-S(7/8)	77.58 - 82.58	1.0000	1.0000
L29	5	RFFT-48SM-001-XXX(3/8)	77.58 - 82.58	1.0000	1.0000
L29	7	7983A(ELLIPTICAL)	77.58 - 82.58	1.0000	1.0000
L29	12	CU12PSM9P6XXX(1-1/2)	77.58 - 82.58	1.0000	1.0000
L29	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	77.58 - 82.58	1.0000	1.0000
L29	27	Safety Line 3/8	77.58 - 82.58	1.0000	1.0000
L29	39	PL1.25x5.5 Reinforcement	77.58 - 82.58	1.0000	1.0000
L29	40	PL1.25x5.5 Reinforcement	77.58 - 82.58	1.0000	1.0000
L29	41	PL1.25x5.5 Reinforcement	77.58 - 82.58	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L29	55	PL1x4 Reinforcement	77.58 - 78.75	1.0000	1.0000
L29	56	PL1x4 Reinforcement	77.58 - 78.75	1.0000	1.0000
L29	57	PL1x4 Reinforcement	77.58 - 78.75	1.0000	1.0000
L29	86	CCI-SFP-040075	77.58 - 82.58	1.0000	1.0000
L29	87	CCI-SFP-040075	77.58 - 82.58	1.0000	1.0000
L29	89	CCI-SFP-040075	77.58 - 82.58	1.0000	1.0000
L30	2	FB-L98B-034-XXX(3/8)	77.00 - 77.58	1.0000	1.0000
L30	3	PWRT-608-S(13/16)	77.00 - 77.58	1.0000	1.0000
L30	4	PWRT-606-S(7/8)	77.00 - 77.58	1.0000	1.0000
L30	5	RFFT-48SM-001-XXX(3/8)	77.00 - 77.58	1.0000	1.0000
L30	7	7983A(ELLIPTICAL)	77.00 - 77.58	1.0000	1.0000
L30	12	CU12PSM9P6XXX(1-1/2)	77.00 - 77.58	1.0000	1.0000
L30	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	77.00 - 77.58	1.0000	1.0000
L30	27	Safety Line 3/8	77.00 - 77.58	1.0000	1.0000
L30	39	PL1.25x5.5 Reinforcement	77.00 - 77.58	1.0000	1.0000
L30	40	PL1.25x5.5 Reinforcement	77.00 - 77.58	1.0000	1.0000
L30	41	PL1.25x5.5 Reinforcement	77.00 - 77.58	1.0000	1.0000
L30	55	PL1x4 Reinforcement	77.00 - 77.58	1.0000	1.0000
L30	56	PL1x4 Reinforcement	77.00 - 77.58	1.0000	1.0000
L30	57	PL1x4 Reinforcement	77.00 - 77.58	1.0000	1.0000
L30	86	CCI-SFP-040075	77.00 - 77.58	1.0000	1.0000
L30	87	CCI-SFP-040075	77.00 - 77.58	1.0000	1.0000
L30	89	CCI-SFP-040075	77.00 - 77.58	1.0000	1.0000
L31	2	FB-L98B-034-XXX(3/8)	76.75 - 77.00	1.0000	1.0000
L31	3	PWRT-608-S(13/16)	76.75 - 77.00	1.0000	1.0000
L31	4	PWRT-606-S(7/8)	76.75 - 77.00	1.0000	1.0000
L31	5	RFFT-48SM-001-XXX(3/8)	76.75 - 77.00	1.0000	1.0000
L31	7	7983A(ELLIPTICAL)	76.75 - 77.00	1.0000	1.0000
L31	12	CU12PSM9P6XXX(1-1/2)	76.75 - 77.00	1.0000	1.0000
L31	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	76.75 - 77.00	1.0000	1.0000
L31	27	Safety Line 3/8	76.75 - 77.00	1.0000	1.0000
L31	39	PL1.25x5.5 Reinforcement	76.75 - 77.00	1.0000	1.0000
L31	40	PL1.25x5.5 Reinforcement	76.75 - 77.00	1.0000	1.0000
L31	41	PL1.25x5.5 Reinforcement	76.75 - 77.00	1.0000	1.0000
L31	55	PL1x4 Reinforcement	76.75 - 77.00	1.0000	1.0000
L31	56	PL1x4 Reinforcement	76.75 - 77.00	1.0000	1.0000
L31	57	PL1x4 Reinforcement	76.75 - 77.00	1.0000	1.0000
L31	86	CCI-SFP-040075	76.75 - 77.00	1.0000	1.0000
L31	87	CCI-SFP-040075	76.75 - 77.00	1.0000	1.0000
L31	89	CCI-SFP-040075	76.75 - 77.00	1.0000	1.0000
L32	2	FB-L98B-034-XXX(3/8)	76.33 - 76.75	1.0000	1.0000
L32	3	PWRT-608-S(13/16)	76.33 - 76.75	1.0000	1.0000
L32	4	PWRT-606-S(7/8)	76.33 - 76.75	1.0000	1.0000
L32	5	RFFT-48SM-001-XXX(3/8)	76.33 - 76.75	1.0000	1.0000
L32	7	7983A(ELLIPTICAL)	76.33 - 76.75	1.0000	1.0000
L32	12	CU12PSM9P6XXX(1-1/2)	76.33 - 76.75	1.0000	1.0000
L32	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	76.33 - 76.75	1.0000	1.0000
L32	27	Safety Line 3/8	76.33 - 76.75	1.0000	1.0000
L32	39	PL1.25x5.5 Reinforcement	76.33 - 76.75	1.0000	1.0000
L32	40	PL1.25x5.5 Reinforcement	76.33 - 76.75	1.0000	1.0000
L32	41	PL1.25x5.5 Reinforcement	76.33 - 76.75	1.0000	1.0000
L32	55	PL1x4 Reinforcement	76.33 - 76.75	1.0000	1.0000
L32	56	PL1x4 Reinforcement	76.33 - 76.75	1.0000	1.0000
L32	57	PL1x4 Reinforcement	76.33 - 76.75	1.0000	1.0000
L32	86	CCI-SFP-040075	76.33 - 76.75	1.0000	1.0000
L32	87	CCI-SFP-040075	76.33 - 76.75	1.0000	1.0000
L32	89	CCI-SFP-040075	76.33 - 76.75	1.0000	1.0000
L33	2	FB-L98B-034-XXX(3/8)	76.08 - 76.33	1.0000	1.0000
L33	3	PWRT-608-S(13/16)	76.08 - 76.33	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L33	4	PWRT-606-S(7/8)	76.08 - 76.33	1.0000	1.0000
L33	5	RFFT-48SM-001-XXX(3/8)	76.08 - 76.33	1.0000	1.0000
L33	7	7983A(ELLIPTICAL)	76.08 - 76.33	1.0000	1.0000
L33	12	CU12PSM9P6XXX(1-1/2)	76.08 - 76.33	1.0000	1.0000
L33	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	76.08 - 76.33	1.0000	1.0000
L33	27	Safety Line 3/8	76.08 - 76.33	1.0000	1.0000
L33	39	PL1.25x5.5 Reinforcement	76.08 - 76.33	1.0000	1.0000
L33	40	PL1.25x5.5 Reinforcement	76.08 - 76.33	1.0000	1.0000
L33	41	PL1.25x5.5 Reinforcement	76.08 - 76.33	1.0000	1.0000
L33	55	PL1x4 Reinforcement	76.08 - 76.33	1.0000	1.0000
L33	56	PL1x4 Reinforcement	76.08 - 76.33	1.0000	1.0000
L33	57	PL1x4 Reinforcement	76.08 - 76.33	1.0000	1.0000
L33	86	CCI-SFP-040075	76.08 - 76.33	1.0000	1.0000
L33	87	CCI-SFP-040075	76.08 - 76.33	1.0000	1.0000
L33	89	CCI-SFP-040075	76.08 - 76.33	1.0000	1.0000
L34	2	FB-L98B-034-XXX(3/8)	74.25 - 76.08	1.0000	1.0000
L34	3	PWRT-608-S(13/16)	74.25 - 76.08	1.0000	1.0000
L34	4	PWRT-606-S(7/8)	74.25 - 76.08	1.0000	1.0000
L34	5	RFFT-48SM-001-XXX(3/8)	74.25 - 76.08	1.0000	1.0000
L34	7	7983A(ELLIPTICAL)	74.25 - 76.08	1.0000	1.0000
L34	12	CU12PSM9P6XXX(1-1/2)	74.25 - 76.08	1.0000	1.0000
L34	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	74.25 - 76.08	1.0000	1.0000
L34	27	Safety Line 3/8	74.25 - 76.08	1.0000	1.0000
L34	39	PL1.25x5.5 Reinforcement	74.25 - 76.08	1.0000	1.0000
L34	40	PL1.25x5.5 Reinforcement	74.25 - 76.08	1.0000	1.0000
L34	41	PL1.25x5.5 Reinforcement	74.25 - 76.08	1.0000	1.0000
L34	55	PL1x4 Reinforcement	74.25 - 76.08	1.0000	1.0000
L34	56	PL1x4 Reinforcement	74.25 - 76.08	1.0000	1.0000
L34	57	PL1x4 Reinforcement	74.25 - 76.08	1.0000	1.0000
L34	81	CCI-SFP-045100	74.25 - 75.25	1.0000	1.0000
L34	82	CCI-SFP-045100	74.25 - 75.25	1.0000	1.0000
L34	84	CCI-SFP-040075	74.25 - 75.25	1.0000	1.0000
L34	86	CCI-SFP-040075	75.33 - 76.08	1.0000	1.0000
L34	87	CCI-SFP-040075	75.33 - 76.08	1.0000	1.0000
L34	89	CCI-SFP-040075	75.33 - 76.08	1.0000	1.0000
L35	2	FB-L98B-034-XXX(3/8)	74.00 - 74.25	1.0000	1.0000
L35	3	PWRT-608-S(13/16)	74.00 - 74.25	1.0000	1.0000
L35	4	PWRT-606-S(7/8)	74.00 - 74.25	1.0000	1.0000
L35	5	RFFT-48SM-001-XXX(3/8)	74.00 - 74.25	1.0000	1.0000
L35	7	7983A(ELLIPTICAL)	74.00 - 74.25	1.0000	1.0000
L35	12	CU12PSM9P6XXX(1-1/2)	74.00 - 74.25	1.0000	1.0000
L35	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	74.00 - 74.25	1.0000	1.0000
L35	27	Safety Line 3/8	74.00 - 74.25	1.0000	1.0000
L35	39	PL1.25x5.5 Reinforcement	74.00 - 74.25	1.0000	1.0000
L35	40	PL1.25x5.5 Reinforcement	74.00 - 74.25	1.0000	1.0000
L35	41	PL1.25x5.5 Reinforcement	74.00 - 74.25	1.0000	1.0000
L35	55	PL1x4 Reinforcement	74.00 - 74.25	1.0000	1.0000
L35	56	PL1x4 Reinforcement	74.00 - 74.25	1.0000	1.0000
L35	57	PL1x4 Reinforcement	74.00 - 74.25	1.0000	1.0000
L35	81	CCI-SFP-045100	74.00 - 74.25	1.0000	1.0000
L35	82	CCI-SFP-045100	74.00 - 74.25	1.0000	1.0000
L35	84	CCI-SFP-040075	74.00 - 74.25	1.0000	1.0000
L36	2	FB-L98B-034-XXX(3/8)	73.75 - 74.00	1.0000	1.0000
L36	3	PWRT-608-S(13/16)	73.75 - 74.00	1.0000	1.0000
L36	4	PWRT-606-S(7/8)	73.75 - 74.00	1.0000	1.0000
L36	5	RFFT-48SM-001-XXX(3/8)	73.75 - 74.00	1.0000	1.0000
L36	7	7983A(ELLIPTICAL)	73.75 - 74.00	1.0000	1.0000
L36	12	CU12PSM9P6XXX(1-1/2)	73.75 - 74.00	1.0000	1.0000
L36	21	MLC HYBRID 6X12	73.75 - 74.00	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
		6AWGX6(1-1/2)			
L36	27	Safety Line 3/8	73.75 - 74.00	1.0000	1.0000
L36	39	PL1.25x5.5 Reinforcement	73.75 - 74.00	1.0000	1.0000
L36	40	PL1.25x5.5 Reinforcement	73.75 - 74.00	1.0000	1.0000
L36	41	PL1.25x5.5 Reinforcement	73.75 - 74.00	1.0000	1.0000
L36	55	PL1x4 Reinforcement	73.75 - 74.00	1.0000	1.0000
L36	56	PL1x4 Reinforcement	73.75 - 74.00	1.0000	1.0000
L36	57	PL1x4 Reinforcement	73.75 - 74.00	1.0000	1.0000
L36	81	CCI-SFP-045100	73.75 - 74.00	1.0000	1.0000
L36	82	CCI-SFP-045100	73.75 - 74.00	1.0000	1.0000
L36	84	CCI-SFP-040075	73.75 - 74.00	1.0000	1.0000
L37	2	FB-L98B-034-XXX(3/8)	73.50 - 73.75	1.0000	1.0000
L37	3	PWRT-608-S(13/16)	73.50 - 73.75	1.0000	1.0000
L37	4	PWRT-606-S(7/8)	73.50 - 73.75	1.0000	1.0000
L37	5	RFFT-48SM-001-XXX(3/8)	73.50 - 73.75	1.0000	1.0000
L37	7	7983A(ELLIPTICAL)	73.50 - 73.75	1.0000	1.0000
L37	12	CU12PSM9P6XXX(1-1/2)	73.50 - 73.75	1.0000	1.0000
L37	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	73.50 - 73.75	1.0000	1.0000
L37	27	Safety Line 3/8	73.50 - 73.75	1.0000	1.0000
L37	39	PL1.25x5.5 Reinforcement	73.50 - 73.75	1.0000	1.0000
L37	40	PL1.25x5.5 Reinforcement	73.50 - 73.75	1.0000	1.0000
L37	41	PL1.25x5.5 Reinforcement	73.50 - 73.75	1.0000	1.0000
L37	55	PL1x4 Reinforcement	73.50 - 73.75	1.0000	1.0000
L37	56	PL1x4 Reinforcement	73.50 - 73.75	1.0000	1.0000
L37	57	PL1x4 Reinforcement	73.50 - 73.75	1.0000	1.0000
L37	81	CCI-SFP-045100	73.50 - 73.75	1.0000	1.0000
L37	82	CCI-SFP-045100	73.50 - 73.75	1.0000	1.0000
L37	84	CCI-SFP-040075	73.50 - 73.75	1.0000	1.0000
L38	2	FB-L98B-034-XXX(3/8)	68.50 - 73.50	1.0000	1.0000
L38	3	PWRT-608-S(13/16)	68.50 - 73.50	1.0000	1.0000
L38	4	PWRT-606-S(7/8)	68.50 - 73.50	1.0000	1.0000
L38	5	RFFT-48SM-001-XXX(3/8)	68.50 - 73.50	1.0000	1.0000
L38	7	7983A(ELLIPTICAL)	68.50 - 73.50	1.0000	1.0000
L38	12	CU12PSM9P6XXX(1-1/2)	68.50 - 73.50	1.0000	1.0000
L38	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	68.50 - 73.50	1.0000	1.0000
L38	27	Safety Line 3/8	68.50 - 73.50	1.0000	1.0000
L38	39	PL1.25x5.5 Reinforcement	68.50 - 73.50	1.0000	1.0000
L38	40	PL1.25x5.5 Reinforcement	68.50 - 73.50	1.0000	1.0000
L38	41	PL1.25x5.5 Reinforcement	68.50 - 73.50	1.0000	1.0000
L38	55	PL1x4 Reinforcement	68.50 - 73.50	1.0000	1.0000
L38	56	PL1x4 Reinforcement	68.50 - 73.50	1.0000	1.0000
L38	57	PL1x4 Reinforcement	68.50 - 73.50	1.0000	1.0000
L38	81	CCI-SFP-045100	68.50 - 73.50	1.0000	1.0000
L38	82	CCI-SFP-045100	68.50 - 73.50	1.0000	1.0000
L38	84	CCI-SFP-040075	68.50 - 73.50	1.0000	1.0000
L39	2	FB-L98B-034-XXX(3/8)	63.50 - 68.50	1.0000	1.0000
L39	3	PWRT-608-S(13/16)	63.50 - 68.50	1.0000	1.0000
L39	4	PWRT-606-S(7/8)	63.50 - 68.50	1.0000	1.0000
L39	5	RFFT-48SM-001-XXX(3/8)	63.50 - 68.50	1.0000	1.0000
L39	7	7983A(ELLIPTICAL)	63.50 - 68.50	1.0000	1.0000
L39	12	CU12PSM9P6XXX(1-1/2)	63.50 - 68.50	1.0000	1.0000
L39	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	63.50 - 68.50	1.0000	1.0000
L39	27	Safety Line 3/8	63.50 - 68.50	1.0000	1.0000
L39	39	PL1.25x5.5 Reinforcement	63.50 - 68.50	1.0000	1.0000
L39	40	PL1.25x5.5 Reinforcement	63.50 - 68.50	1.0000	1.0000
L39	41	PL1.25x5.5 Reinforcement	63.50 - 68.50	1.0000	1.0000
L39	55	PL1x4 Reinforcement	63.50 - 68.50	1.0000	1.0000
L39	56	PL1x4 Reinforcement	63.50 - 68.50	1.0000	1.0000
L39	57	PL1x4 Reinforcement	63.50 - 68.50	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L39	81	CCI-SFP-045100	63.50 - 68.50	1.0000	1.0000
L39	82	CCI-SFP-045100	63.50 - 68.50	1.0000	1.0000
L39	84	CCI-SFP-040075	63.50 - 68.50	1.0000	1.0000
L40	2	FB-L98B-034-XXX(3/8)	60.50 - 63.50	1.0000	1.0000
L40	3	PWRT-608-S(13/16)	60.50 - 63.50	1.0000	1.0000
L40	4	PWRT-606-S(7/8)	60.50 - 63.50	1.0000	1.0000
L40	5	RFFT-48SM-001-XXX(3/8)	60.50 - 63.50	1.0000	1.0000
L40	7	7983A(ELLIPTICAL)	60.50 - 63.50	1.0000	1.0000
L40	12	CU12PSM9P6XXX(1-1/2)	60.50 - 63.50	1.0000	1.0000
L40	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	60.50 - 63.50	1.0000	1.0000
L40	27	Safety Line 3/8	60.50 - 63.50	1.0000	1.0000
L40	39	PL1.25x5.5 Reinforcement	60.50 - 63.50	1.0000	1.0000
L40	40	PL1.25x5.5 Reinforcement	60.50 - 63.50	1.0000	1.0000
L40	41	PL1.25x5.5 Reinforcement	60.50 - 63.50	1.0000	1.0000
L40	51	PL1x4 Reinforcement	60.50 - 62.25	1.0000	1.0000
L40	52	PL1x4 Reinforcement	60.50 - 62.25	1.0000	1.0000
L40	53	PL1x4 Reinforcement	60.50 - 62.25	1.0000	1.0000
L40	55	PL1x4 Reinforcement	60.50 - 63.50	1.0000	1.0000
L40	56	PL1x4 Reinforcement	60.50 - 63.50	1.0000	1.0000
L40	57	PL1x4 Reinforcement	60.50 - 63.50	1.0000	1.0000
L40	81	CCI-SFP-045100	60.50 - 63.50	1.0000	1.0000
L40	82	CCI-SFP-045100	60.50 - 63.50	1.0000	1.0000
L40	84	CCI-SFP-040075	60.50 - 63.50	1.0000	1.0000
L41	2	FB-L98B-034-XXX(3/8)	60.25 - 60.50	1.0000	1.0000
L41	3	PWRT-608-S(13/16)	60.25 - 60.50	1.0000	1.0000
L41	4	PWRT-606-S(7/8)	60.25 - 60.50	1.0000	1.0000
L41	5	RFFT-48SM-001-XXX(3/8)	60.25 - 60.50	1.0000	1.0000
L41	7	7983A(ELLIPTICAL)	60.25 - 60.50	1.0000	1.0000
L41	12	CU12PSM9P6XXX(1-1/2)	60.25 - 60.50	1.0000	1.0000
L41	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	60.25 - 60.50	1.0000	1.0000
L41	27	Safety Line 3/8	60.25 - 60.50	1.0000	1.0000
L41	39	PL1.25x5.5 Reinforcement	60.25 - 60.50	1.0000	1.0000
L41	40	PL1.25x5.5 Reinforcement	60.25 - 60.50	1.0000	1.0000
L41	41	PL1.25x5.5 Reinforcement	60.25 - 60.50	1.0000	1.0000
L41	51	PL1x4 Reinforcement	60.25 - 60.50	1.0000	1.0000
L41	52	PL1x4 Reinforcement	60.25 - 60.50	1.0000	1.0000
L41	53	PL1x4 Reinforcement	60.25 - 60.50	1.0000	1.0000
L41	55	PL1x4 Reinforcement	60.25 - 60.50	1.0000	1.0000
L41	56	PL1x4 Reinforcement	60.25 - 60.50	1.0000	1.0000
L41	57	PL1x4 Reinforcement	60.25 - 60.50	1.0000	1.0000
L41	81	CCI-SFP-045100	60.25 - 60.50	1.0000	1.0000
L41	82	CCI-SFP-045100	60.25 - 60.50	1.0000	1.0000
L41	84	CCI-SFP-040075	60.25 - 60.50	1.0000	1.0000
L42	2	FB-L98B-034-XXX(3/8)	59.50 - 60.25	1.0000	1.0000
L42	3	PWRT-608-S(13/16)	59.50 - 60.25	1.0000	1.0000
L42	4	PWRT-606-S(7/8)	59.50 - 60.25	1.0000	1.0000
L42	5	RFFT-48SM-001-XXX(3/8)	59.50 - 60.25	1.0000	1.0000
L42	7	7983A(ELLIPTICAL)	59.50 - 60.25	1.0000	1.0000
L42	12	CU12PSM9P6XXX(1-1/2)	59.50 - 60.25	1.0000	1.0000
L42	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	59.50 - 60.25	1.0000	1.0000
L42	27	Safety Line 3/8	59.50 - 60.25	1.0000	1.0000
L42	39	PL1.25x5.5 Reinforcement	59.50 - 60.25	1.0000	1.0000
L42	40	PL1.25x5.5 Reinforcement	59.50 - 60.25	1.0000	1.0000
L42	41	PL1.25x5.5 Reinforcement	59.50 - 60.25	1.0000	1.0000
L42	51	PL1x4 Reinforcement	59.50 - 60.25	1.0000	1.0000
L42	52	PL1x4 Reinforcement	59.50 - 60.25	1.0000	1.0000
L42	53	PL1x4 Reinforcement	59.50 - 60.25	1.0000	1.0000
L42	55	PL1x4 Reinforcement	59.50 - 60.25	1.0000	1.0000
L42	56	PL1x4 Reinforcement	59.50 - 60.25	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L42	57	PL1x4 Reinforcement	59.50 - 60.25	1.0000	1.0000
L42	81	CCI-SFP-045100	59.50 - 60.25	1.0000	1.0000
L42	82	CCI-SFP-045100	59.50 - 60.25	1.0000	1.0000
L42	84	CCI-SFP-040075	59.50 - 60.25	1.0000	1.0000
L43	2	FB-L98B-034-XXX(3/8)	59.25 - 59.50	1.0000	1.0000
L43	3	PWRT-608-S(13/16)	59.25 - 59.50	1.0000	1.0000
L43	4	PWRT-606-S(7/8)	59.25 - 59.50	1.0000	1.0000
L43	5	RFFT-48SM-001-XXX(3/8)	59.25 - 59.50	1.0000	1.0000
L43	7	7983A(ELLIPTICAL)	59.25 - 59.50	1.0000	1.0000
L43	12	CU12PSM9P6XXX(1-1/2)	59.25 - 59.50	1.0000	1.0000
L43	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	59.25 - 59.50	1.0000	1.0000
L43	27	Safety Line 3/8	59.25 - 59.50	1.0000	1.0000
L43	35	PL1.25x6.625 Reinforcement	59.25 - 59.50	1.0000	1.0000
L43	36	PL1.25x6.625 Reinforcement	59.25 - 59.50	1.0000	1.0000
L43	37	PL1.25x6.625 Reinforcement	59.25 - 59.50	1.0000	1.0000
L43	51	PL1x4 Reinforcement	59.25 - 59.50	1.0000	1.0000
L43	52	PL1x4 Reinforcement	59.25 - 59.50	1.0000	1.0000
L43	53	PL1x4 Reinforcement	59.25 - 59.50	1.0000	1.0000
L43	55	PL1x4 Reinforcement	59.25 - 59.50	1.0000	1.0000
L43	56	PL1x4 Reinforcement	59.25 - 59.50	1.0000	1.0000
L43	57	PL1x4 Reinforcement	59.25 - 59.50	1.0000	1.0000
L43	81	CCI-SFP-045100	59.25 - 59.50	1.0000	1.0000
L43	82	CCI-SFP-045100	59.25 - 59.50	1.0000	1.0000
L43	84	CCI-SFP-040075	59.25 - 59.50	1.0000	1.0000
L44	2	FB-L98B-034-XXX(3/8)	54.25 - 59.25	1.0000	1.0000
L44	3	PWRT-608-S(13/16)	54.25 - 59.25	1.0000	1.0000
L44	4	PWRT-606-S(7/8)	54.25 - 59.25	1.0000	1.0000
L44	5	RFFT-48SM-001-XXX(3/8)	54.25 - 59.25	1.0000	1.0000
L44	7	7983A(ELLIPTICAL)	54.25 - 59.25	1.0000	1.0000
L44	12	CU12PSM9P6XXX(1-1/2)	54.25 - 59.25	1.0000	1.0000
L44	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	54.25 - 59.25	1.0000	1.0000
L44	27	Safety Line 3/8	54.25 - 59.25	1.0000	1.0000
L44	35	PL1.25x6.625 Reinforcement	54.25 - 59.25	1.0000	1.0000
L44	36	PL1.25x6.625 Reinforcement	54.25 - 59.25	1.0000	1.0000
L44	37	PL1.25x6.625 Reinforcement	54.25 - 59.25	1.0000	1.0000
L44	51	PL1x4 Reinforcement	54.25 - 59.25	1.0000	1.0000
L44	52	PL1x4 Reinforcement	54.25 - 59.25	1.0000	1.0000
L44	53	PL1x4 Reinforcement	54.25 - 59.25	1.0000	1.0000
L44	55	PL1x4 Reinforcement	58.75 - 59.25	1.0000	1.0000
L44	56	PL1x4 Reinforcement	58.75 - 59.25	1.0000	1.0000
L44	57	PL1x4 Reinforcement	58.75 - 59.25	1.0000	1.0000
L44	81	CCI-SFP-045100	54.25 - 59.25	1.0000	1.0000
L44	82	CCI-SFP-045100	54.25 - 59.25	1.0000	1.0000
L44	84	CCI-SFP-040075	54.25 - 59.25	1.0000	1.0000
L45	2	FB-L98B-034-XXX(3/8)	45.80 - 54.25	1.0000	1.0000
L45	3	PWRT-608-S(13/16)	45.80 - 54.25	1.0000	1.0000
L45	4	PWRT-606-S(7/8)	45.80 - 54.25	1.0000	1.0000
L45	5	RFFT-48SM-001-XXX(3/8)	45.80 - 54.25	1.0000	1.0000
L45	7	7983A(ELLIPTICAL)	45.80 - 54.25	1.0000	1.0000
L45	12	CU12PSM9P6XXX(1-1/2)	45.80 - 54.25	1.0000	1.0000
L45	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	45.80 - 54.25	1.0000	1.0000
L45	27	Safety Line 3/8	45.80 - 54.25	1.0000	1.0000
L45	35	PL1.25x6.625 Reinforcement	45.80 - 54.25	1.0000	1.0000
L45	36	PL1.25x6.625 Reinforcement	45.80 - 54.25	1.0000	1.0000
L45	37	PL1.25x6.625 Reinforcement	45.80 - 54.25	1.0000	1.0000
L45	51	PL1x4 Reinforcement	45.80 - 54.25	1.0000	1.0000
L45	52	PL1x4 Reinforcement	45.80 - 54.25	1.0000	1.0000
L45	53	PL1x4 Reinforcement	45.80 - 54.25	1.0000	1.0000
L45	81	CCI-SFP-045100	45.80 - 54.25	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L45	82	CCI-SFP-045100	45.80 - 54.25	1.0000	1.0000
L45	84	CCI-SFP-040075	45.80 - 54.25	1.0000	1.0000
L46	2	FB-L98B-034-XXX(3/8)	44.80 - 45.80	1.0000	1.0000
L46	3	PWRT-608-S(13/16)	44.80 - 45.80	1.0000	1.0000
L46	4	PWRT-606-S(7/8)	44.80 - 45.80	1.0000	1.0000
L46	5	RFFT-48SM-001-XXX(3/8)	44.80 - 45.80	1.0000	1.0000
L46	7	7983A(ELLIPTICAL)	44.80 - 45.80	1.0000	1.0000
L46	12	CU12PSM9P6XXX(1-1/2)	44.80 - 45.80	1.0000	1.0000
L46	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	44.80 - 45.80	1.0000	1.0000
L46	27	Safety Line 3/8	44.80 - 45.80	1.0000	1.0000
L46	35	PL1.25x6.625 Reinforcement	44.80 - 45.80	1.0000	1.0000
L46	36	PL1.25x6.625 Reinforcement	44.80 - 45.80	1.0000	1.0000
L46	37	PL1.25x6.625 Reinforcement	44.80 - 45.80	1.0000	1.0000
L46	51	PL1x4 Reinforcement	44.80 - 45.80	1.0000	1.0000
L46	52	PL1x4 Reinforcement	44.80 - 45.80	1.0000	1.0000
L46	53	PL1x4 Reinforcement	44.80 - 45.80	1.0000	1.0000
L46	76	CCI-SFP-045100	44.80 - 45.08	1.0000	1.0000
L46	78	CCI-SFP-060100	44.80 - 45.17	1.0000	1.0000
L46	79	CCI-SFP-060100	44.80 - 45.17	1.0000	1.0000
L46	81	CCI-SFP-045100	45.25 - 45.80	1.0000	1.0000
L46	82	CCI-SFP-045100	45.25 - 45.80	1.0000	1.0000
L46	84	CCI-SFP-040075	45.25 - 45.80	1.0000	1.0000
L47	2	FB-L98B-034-XXX(3/8)	43.58 - 44.80	1.0000	1.0000
L47	3	PWRT-608-S(13/16)	43.58 - 44.80	1.0000	1.0000
L47	4	PWRT-606-S(7/8)	43.58 - 44.80	1.0000	1.0000
L47	5	RFFT-48SM-001-XXX(3/8)	43.58 - 44.80	1.0000	1.0000
L47	7	7983A(ELLIPTICAL)	43.58 - 44.80	1.0000	1.0000
L47	12	CU12PSM9P6XXX(1-1/2)	43.58 - 44.80	1.0000	1.0000
L47	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	43.58 - 44.80	1.0000	1.0000
L47	27	Safety Line 3/8	43.58 - 44.80	1.0000	1.0000
L47	35	PL1.25x6.625 Reinforcement	43.58 - 44.80	1.0000	1.0000
L47	36	PL1.25x6.625 Reinforcement	43.58 - 44.80	1.0000	1.0000
L47	37	PL1.25x6.625 Reinforcement	43.58 - 44.80	1.0000	1.0000
L47	51	PL1x4 Reinforcement	43.58 - 44.80	1.0000	1.0000
L47	52	PL1x4 Reinforcement	43.58 - 44.80	1.0000	1.0000
L47	53	PL1x4 Reinforcement	43.58 - 44.80	1.0000	1.0000
L47	76	CCI-SFP-045100	43.58 - 44.80	1.0000	1.0000
L47	78	CCI-SFP-060100	43.58 - 44.80	1.0000	1.0000
L47	79	CCI-SFP-060100	43.58 - 44.80	1.0000	1.0000
L48	2	FB-L98B-034-XXX(3/8)	43.33 - 43.58	1.0000	1.0000
L48	3	PWRT-608-S(13/16)	43.33 - 43.58	1.0000	1.0000
L48	4	PWRT-606-S(7/8)	43.33 - 43.58	1.0000	1.0000
L48	5	RFFT-48SM-001-XXX(3/8)	43.33 - 43.58	1.0000	1.0000
L48	7	7983A(ELLIPTICAL)	43.33 - 43.58	1.0000	1.0000
L48	12	CU12PSM9P6XXX(1-1/2)	43.33 - 43.58	1.0000	1.0000
L48	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	43.33 - 43.58	1.0000	1.0000
L48	27	Safety Line 3/8	43.33 - 43.58	1.0000	1.0000
L48	35	PL1.25x6.625 Reinforcement	43.33 - 43.58	1.0000	1.0000
L48	36	PL1.25x6.625 Reinforcement	43.33 - 43.58	1.0000	1.0000
L48	37	PL1.25x6.625 Reinforcement	43.33 - 43.58	1.0000	1.0000
L48	51	PL1x4 Reinforcement	43.33 - 43.58	1.0000	1.0000
L48	52	PL1x4 Reinforcement	43.33 - 43.58	1.0000	1.0000
L48	53	PL1x4 Reinforcement	43.33 - 43.58	1.0000	1.0000
L48	76	CCI-SFP-045100	43.33 - 43.58	1.0000	1.0000
L48	78	CCI-SFP-060100	43.33 - 43.58	1.0000	1.0000
L48	79	CCI-SFP-060100	43.33 - 43.58	1.0000	1.0000
L49	2	FB-L98B-034-XXX(3/8)	43.17 - 43.33	1.0000	1.0000
L49	3	PWRT-608-S(13/16)	43.17 - 43.33	1.0000	1.0000
L49	4	PWRT-606-S(7/8)	43.17 - 43.33	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L49	5	RFFT-48SM-001-XXX(3/8)	43.17 - 43.33	1.0000	1.0000
L49	7	7983A(ELLIPTICAL)	43.17 - 43.33	1.0000	1.0000
L49	12	CU12PSM9P6XXX(1-1/2)	43.17 - 43.33	1.0000	1.0000
L49	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	43.17 - 43.33	1.0000	1.0000
L49	27	Safety Line 3/8	43.17 - 43.33	1.0000	1.0000
L49	35	PL1.25x6.625 Reinforcement	43.17 - 43.33	1.0000	1.0000
L49	36	PL1.25x6.625 Reinforcement	43.17 - 43.33	1.0000	1.0000
L49	37	PL1.25x6.625 Reinforcement	43.17 - 43.33	1.0000	1.0000
L49	51	PL1x4 Reinforcement	43.17 - 43.33	1.0000	1.0000
L49	52	PL1x4 Reinforcement	43.17 - 43.33	1.0000	1.0000
L49	53	PL1x4 Reinforcement	43.17 - 43.33	1.0000	1.0000
L49	76	CCI-SFP-045100	43.17 - 43.33	1.0000	1.0000
L49	78	CCI-SFP-060100	43.17 - 43.33	1.0000	1.0000
L49	79	CCI-SFP-060100	43.17 - 43.33	1.0000	1.0000
L50	2	FB-L98B-034-XXX(3/8)	42.92 - 43.17	1.0000	1.0000
L50	3	PWRT-608-S(13/16)	42.92 - 43.17	1.0000	1.0000
L50	4	PWRT-606-S(7/8)	42.92 - 43.17	1.0000	1.0000
L50	5	RFFT-48SM-001-XXX(3/8)	42.92 - 43.17	1.0000	1.0000
L50	7	7983A(ELLIPTICAL)	42.92 - 43.17	1.0000	1.0000
L50	12	CU12PSM9P6XXX(1-1/2)	42.92 - 43.17	1.0000	1.0000
L50	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	42.92 - 43.17	1.0000	1.0000
L50	27	Safety Line 3/8	42.92 - 43.17	1.0000	1.0000
L50	35	PL1.25x6.625 Reinforcement	42.92 - 43.17	1.0000	1.0000
L50	36	PL1.25x6.625 Reinforcement	42.92 - 43.17	1.0000	1.0000
L50	37	PL1.25x6.625 Reinforcement	42.92 - 43.17	1.0000	1.0000
L50	51	PL1x4 Reinforcement	42.92 - 43.17	1.0000	1.0000
L50	52	PL1x4 Reinforcement	42.92 - 43.17	1.0000	1.0000
L50	53	PL1x4 Reinforcement	42.92 - 43.17	1.0000	1.0000
L50	76	CCI-SFP-045100	42.92 - 43.17	1.0000	1.0000
L50	78	CCI-SFP-060100	42.92 - 43.17	1.0000	1.0000
L50	79	CCI-SFP-060100	42.92 - 43.17	1.0000	1.0000
L51	2	FB-L98B-034-XXX(3/8)	39.00 - 42.92	1.0000	1.0000
L51	3	PWRT-608-S(13/16)	39.00 - 42.92	1.0000	1.0000
L51	4	PWRT-606-S(7/8)	39.00 - 42.92	1.0000	1.0000
L51	5	RFFT-48SM-001-XXX(3/8)	39.00 - 42.92	1.0000	1.0000
L51	7	7983A(ELLIPTICAL)	39.00 - 42.92	1.0000	1.0000
L51	12	CU12PSM9P6XXX(1-1/2)	39.00 - 42.92	1.0000	1.0000
L51	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	39.00 - 42.92	1.0000	1.0000
L51	27	Safety Line 3/8	39.00 - 42.92	1.0000	1.0000
L51	35	PL1.25x6.625 Reinforcement	39.00 - 42.92	1.0000	1.0000
L51	36	PL1.25x6.625 Reinforcement	39.00 - 42.92	1.0000	1.0000
L51	37	PL1.25x6.625 Reinforcement	39.00 - 42.92	1.0000	1.0000
L51	49	PL1x4 Reinforcement	39.00 - 40.75	1.0000	1.0000
L51	51	PL1x4 Reinforcement	39.00 - 42.92	1.0000	1.0000
L51	52	PL1x4 Reinforcement	39.00 - 42.92	1.0000	1.0000
L51	53	PL1x4 Reinforcement	39.00 - 42.92	1.0000	1.0000
L51	76	CCI-SFP-045100	39.00 - 42.92	1.0000	1.0000
L51	78	CCI-SFP-060100	39.00 - 42.92	1.0000	1.0000
L51	79	CCI-SFP-060100	39.00 - 42.92	1.0000	1.0000
L52	2	FB-L98B-034-XXX(3/8)	38.75 - 39.00	1.0000	1.0000
L52	3	PWRT-608-S(13/16)	38.75 - 39.00	1.0000	1.0000
L52	4	PWRT-606-S(7/8)	38.75 - 39.00	1.0000	1.0000
L52	5	RFFT-48SM-001-XXX(3/8)	38.75 - 39.00	1.0000	1.0000
L52	7	7983A(ELLIPTICAL)	38.75 - 39.00	1.0000	1.0000
L52	12	CU12PSM9P6XXX(1-1/2)	38.75 - 39.00	1.0000	1.0000
L52	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	38.75 - 39.00	1.0000	1.0000
L52	27	Safety Line 3/8	38.75 - 39.00	1.0000	1.0000
L52	35	PL1.25x6.625 Reinforcement	38.75 - 39.00	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L52	36	PL1.25x6.625 Reinforcement	38.75 - 39.00	1.0000	1.0000
L52	37	PL1.25x6.625 Reinforcement	38.75 - 39.00	1.0000	1.0000
L52	49	PL1x4 Reinforcement	38.75 - 39.00	1.0000	1.0000
L52	51	PL1x4 Reinforcement	38.75 - 39.00	1.0000	1.0000
L52	52	PL1x4 Reinforcement	38.75 - 39.00	1.0000	1.0000
L52	53	PL1x4 Reinforcement	38.75 - 39.00	1.0000	1.0000
L52	76	CCI-SFP-045100	38.75 - 39.00	1.0000	1.0000
L52	78	CCI-SFP-060100	38.75 - 39.00	1.0000	1.0000
L52	79	CCI-SFP-060100	38.75 - 39.00	1.0000	1.0000
L53	2	FB-L98B-034-XXX(3/8)	37.17 - 38.75	1.0000	1.0000
L53	3	PWRT-608-S(13/16)	37.17 - 38.75	1.0000	1.0000
L53	4	PWRT-606-S(7/8)	37.17 - 38.75	1.0000	1.0000
L53	5	RFFT-48SM-001-XXX(3/8)	37.17 - 38.75	1.0000	1.0000
L53	7	7983A(ELLIPTICAL)	37.17 - 38.75	1.0000	1.0000
L53	12	CU12PSM9P6XXX(1-1/2)	37.17 - 38.75	1.0000	1.0000
L53	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	37.17 - 38.75	1.0000	1.0000
L53	27	Safety Line 3/8	37.17 - 38.75	1.0000	1.0000
L53	35	PL1.25x6.625 Reinforcement	37.17 - 38.75	1.0000	1.0000
L53	36	PL1.25x6.625 Reinforcement	37.17 - 38.75	1.0000	1.0000
L53	37	PL1.25x6.625 Reinforcement	37.17 - 38.75	1.0000	1.0000
L53	49	PL1x4 Reinforcement	37.17 - 38.75	1.0000	1.0000
L53	51	PL1x4 Reinforcement	37.17 - 38.75	1.0000	1.0000
L53	52	PL1x4 Reinforcement	37.17 - 38.75	1.0000	1.0000
L53	53	PL1x4 Reinforcement	37.17 - 38.75	1.0000	1.0000
L53	76	CCI-SFP-045100	37.17 - 38.75	1.0000	1.0000
L53	78	CCI-SFP-060100	37.17 - 38.75	1.0000	1.0000
L53	79	CCI-SFP-060100	37.17 - 38.75	1.0000	1.0000
L54	2	FB-L98B-034-XXX(3/8)	36.92 - 37.17	1.0000	1.0000
L54	3	PWRT-608-S(13/16)	36.92 - 37.17	1.0000	1.0000
L54	4	PWRT-606-S(7/8)	36.92 - 37.17	1.0000	1.0000
L54	5	RFFT-48SM-001-XXX(3/8)	36.92 - 37.17	1.0000	1.0000
L54	7	7983A(ELLIPTICAL)	36.92 - 37.17	1.0000	1.0000
L54	12	CU12PSM9P6XXX(1-1/2)	36.92 - 37.17	1.0000	1.0000
L54	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	36.92 - 37.17	1.0000	1.0000
L54	27	Safety Line 3/8	36.92 - 37.17	1.0000	1.0000
L54	35	PL1.25x6.625 Reinforcement	36.92 - 37.17	1.0000	1.0000
L54	36	PL1.25x6.625 Reinforcement	36.92 - 37.17	1.0000	1.0000
L54	37	PL1.25x6.625 Reinforcement	36.92 - 37.17	1.0000	1.0000
L54	49	PL1x4 Reinforcement	36.92 - 37.17	1.0000	1.0000
L54	51	PL1x4 Reinforcement	36.92 - 37.17	1.0000	1.0000
L54	52	PL1x4 Reinforcement	36.92 - 37.17	1.0000	1.0000
L54	53	PL1x4 Reinforcement	36.92 - 37.17	1.0000	1.0000
L54	76	CCI-SFP-045100	36.92 - 37.17	1.0000	1.0000
L54	78	CCI-SFP-060100	36.92 - 37.17	1.0000	1.0000
L54	79	CCI-SFP-060100	36.92 - 37.17	1.0000	1.0000
L55	2	FB-L98B-034-XXX(3/8)	34.00 - 36.92	1.0000	1.0000
L55	3	PWRT-608-S(13/16)	34.00 - 36.92	1.0000	1.0000
L55	4	PWRT-606-S(7/8)	34.00 - 36.92	1.0000	1.0000
L55	5	RFFT-48SM-001-XXX(3/8)	34.00 - 36.92	1.0000	1.0000
L55	7	7983A(ELLIPTICAL)	34.00 - 36.92	1.0000	1.0000
L55	12	CU12PSM9P6XXX(1-1/2)	34.00 - 36.92	1.0000	1.0000
L55	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	34.00 - 36.92	1.0000	1.0000
L55	27	Safety Line 3/8	34.00 - 36.92	1.0000	1.0000
L55	35	PL1.25x6.625 Reinforcement	34.00 - 36.92	1.0000	1.0000
L55	36	PL1.25x6.625 Reinforcement	34.00 - 36.92	1.0000	1.0000
L55	37	PL1.25x6.625 Reinforcement	34.00 - 36.92	1.0000	1.0000
L55	47	PL1x4 Reinforcement	34.00 - 35.75	1.0000	1.0000
L55	48	PL1x4 Reinforcement	34.00 - 35.75	1.0000	1.0000
L55	49	PL1x4 Reinforcement	34.00 - 36.92	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L55	51	PL1x4 Reinforcement	34.00 - 36.92	1.0000	1.0000
L55	52	PL1x4 Reinforcement	34.00 - 36.92	1.0000	1.0000
L55	53	PL1x4 Reinforcement	34.00 - 36.92	1.0000	1.0000
L55	72	CCI-SFP-045100	34.00 - 35.08	1.0000	1.0000
L55	74	CCI-SFP-045100	34.00 - 35.08	1.0000	1.0000
L55	76	CCI-SFP-045100	34.00 - 36.92	1.0000	1.0000
L55	78	CCI-SFP-060100	35.17 - 36.92	1.0000	1.0000
L55	79	CCI-SFP-060100	35.17 - 36.92	1.0000	1.0000
L56	2	FB-L98B-034-XXX(3/8)	33.75 - 34.00	1.0000	1.0000
L56	3	PWRT-608-S(13/16)	33.75 - 34.00	1.0000	1.0000
L56	4	PWRT-606-S(7/8)	33.75 - 34.00	1.0000	1.0000
L56	5	RFFT-48SM-001-XXX(3/8)	33.75 - 34.00	1.0000	1.0000
L56	7	7983A(ELLIPTICAL)	33.75 - 34.00	1.0000	1.0000
L56	12	CU12PSM9P6XXX(1-1/2)	33.75 - 34.00	1.0000	1.0000
L56	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	33.75 - 34.00	1.0000	1.0000
L56	27	Safety Line 3/8	33.75 - 34.00	1.0000	1.0000
L56	35	PL1.25x6.625 Reinforcement	33.75 - 34.00	1.0000	1.0000
L56	36	PL1.25x6.625 Reinforcement	33.75 - 34.00	1.0000	1.0000
L56	37	PL1.25x6.625 Reinforcement	33.75 - 34.00	1.0000	1.0000
L56	47	PL1x4 Reinforcement	33.75 - 34.00	1.0000	1.0000
L56	48	PL1x4 Reinforcement	33.75 - 34.00	1.0000	1.0000
L56	49	PL1x4 Reinforcement	33.75 - 34.00	1.0000	1.0000
L56	51	PL1x4 Reinforcement	33.75 - 34.00	1.0000	1.0000
L56	52	PL1x4 Reinforcement	33.75 - 34.00	1.0000	1.0000
L56	53	PL1x4 Reinforcement	33.75 - 34.00	1.0000	1.0000
L56	72	CCI-SFP-045100	33.75 - 34.00	1.0000	1.0000
L56	74	CCI-SFP-045100	33.75 - 34.00	1.0000	1.0000
L56	76	CCI-SFP-045100	33.75 - 34.00	1.0000	1.0000
L57	2	FB-L98B-034-XXX(3/8)	29.75 - 33.75	1.0000	1.0000
L57	3	PWRT-608-S(13/16)	29.75 - 33.75	1.0000	1.0000
L57	4	PWRT-606-S(7/8)	29.75 - 33.75	1.0000	1.0000
L57	5	RFFT-48SM-001-XXX(3/8)	29.75 - 33.75	1.0000	1.0000
L57	7	7983A(ELLIPTICAL)	29.75 - 33.75	1.0000	1.0000
L57	12	CU12PSM9P6XXX(1-1/2)	29.75 - 33.75	1.0000	1.0000
L57	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	29.75 - 33.75	1.0000	1.0000
L57	27	Safety Line 3/8	29.75 - 33.75	1.0000	1.0000
L57	35	PL1.25x6.625 Reinforcement	29.75 - 33.75	1.0000	1.0000
L57	36	PL1.25x6.625 Reinforcement	29.75 - 33.75	1.0000	1.0000
L57	37	PL1.25x6.625 Reinforcement	29.75 - 33.75	1.0000	1.0000
L57	47	PL1x4 Reinforcement	29.75 - 33.75	1.0000	1.0000
L57	48	PL1x4 Reinforcement	29.75 - 33.75	1.0000	1.0000
L57	49	PL1x4 Reinforcement	29.75 - 33.75	1.0000	1.0000
L57	51	PL1x4 Reinforcement	32.25 - 33.75	1.0000	1.0000
L57	52	PL1x4 Reinforcement	32.25 - 33.75	1.0000	1.0000
L57	53	PL1x4 Reinforcement	32.25 - 33.75	1.0000	1.0000
L57	72	CCI-SFP-045100	29.75 - 33.75	1.0000	1.0000
L57	74	CCI-SFP-045100	29.75 - 33.75	1.0000	1.0000
L57	76	CCI-SFP-045100	29.75 - 33.75	1.0000	1.0000
L58	2	FB-L98B-034-XXX(3/8)	29.50 - 29.75	1.0000	1.0000
L58	3	PWRT-608-S(13/16)	29.50 - 29.75	1.0000	1.0000
L58	4	PWRT-606-S(7/8)	29.50 - 29.75	1.0000	1.0000
L58	5	RFFT-48SM-001-XXX(3/8)	29.50 - 29.75	1.0000	1.0000
L58	7	7983A(ELLIPTICAL)	29.50 - 29.75	1.0000	1.0000
L58	12	CU12PSM9P6XXX(1-1/2)	29.50 - 29.75	1.0000	1.0000
L58	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	29.50 - 29.75	1.0000	1.0000
L58	27	Safety Line 3/8	29.50 - 29.75	1.0000	1.0000
L58	29	PL1.25x6.875 Reinforcement	29.50 - 29.75	1.0000	1.0000
L58	30	PL1.25x6.875 Reinforcement	29.50 - 29.75	1.0000	1.0000
L58	31	PL1.25x6.875 Reinforcement	29.50 - 29.75	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L58	47	PL1x4 Reinforcement	29.50 - 29.75	1.0000	1.0000
L58	48	PL1x4 Reinforcement	29.50 - 29.75	1.0000	1.0000
L58	49	PL1x4 Reinforcement	29.50 - 29.75	1.0000	1.0000
L58	72	CCI-SFP-045100	29.50 - 29.75	1.0000	1.0000
L58	74	CCI-SFP-045100	29.50 - 29.75	1.0000	1.0000
L58	76	CCI-SFP-045100	29.50 - 29.75	1.0000	1.0000
L59	2	FB-L98B-034-XXX(3/8)	24.50 - 29.50	1.0000	1.0000
L59	3	PWRT-608-S(13/16)	24.50 - 29.50	1.0000	1.0000
L59	4	PWRT-606-S(7/8)	24.50 - 29.50	1.0000	1.0000
L59	5	RFFT-48SM-001-XXX(3/8)	24.50 - 29.50	1.0000	1.0000
L59	7	7983A(ELLIPTICAL)	24.50 - 29.50	1.0000	1.0000
L59	12	CU12PSM9P6XXX(1-1/2)	24.50 - 29.50	1.0000	1.0000
L59	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	24.50 - 29.50	1.0000	1.0000
L59	27	Safety Line 3/8	24.50 - 29.50	1.0000	1.0000
L59	29	PL1.25x6.875 Reinforcement	24.50 - 29.50	1.0000	1.0000
L59	30	PL1.25x6.875 Reinforcement	24.50 - 29.50	1.0000	1.0000
L59	31	PL1.25x6.875 Reinforcement	24.50 - 29.50	1.0000	1.0000
L59	47	PL1x4 Reinforcement	24.50 - 29.50	1.0000	1.0000
L59	48	PL1x4 Reinforcement	24.50 - 29.50	1.0000	1.0000
L59	49	PL1x4 Reinforcement	24.50 - 29.50	1.0000	1.0000
L59	67	CCI-SFP-060100	24.50 - 25.00	1.0000	1.0000
L59	68	CCI-SFP-060100	24.50 - 25.00	1.0000	1.0000
L59	70	CCI-SFP-060100	24.50 - 25.00	1.0000	1.0000
L59	72	CCI-SFP-045100	24.50 - 29.50	1.0000	1.0000
L59	74	CCI-SFP-045100	25.08 - 29.50	1.0000	1.0000
L59	76	CCI-SFP-045100	25.08 - 29.50	1.0000	1.0000
L60	2	FB-L98B-034-XXX(3/8)	23.00 - 24.50	1.0000	1.0000
L60	3	PWRT-608-S(13/16)	23.00 - 24.50	1.0000	1.0000
L60	4	PWRT-606-S(7/8)	23.00 - 24.50	1.0000	1.0000
L60	5	RFFT-48SM-001-XXX(3/8)	23.00 - 24.50	1.0000	1.0000
L60	7	7983A(ELLIPTICAL)	23.00 - 24.50	1.0000	1.0000
L60	12	CU12PSM9P6XXX(1-1/2)	23.00 - 24.50	1.0000	1.0000
L60	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	23.00 - 24.50	1.0000	1.0000
L60	27	Safety Line 3/8	23.00 - 24.50	1.0000	1.0000
L60	29	PL1.25x6.875 Reinforcement	23.00 - 24.50	1.0000	1.0000
L60	30	PL1.25x6.875 Reinforcement	23.00 - 24.50	1.0000	1.0000
L60	31	PL1.25x6.875 Reinforcement	23.00 - 24.50	1.0000	1.0000
L60	47	PL1x4 Reinforcement	23.00 - 24.50	1.0000	1.0000
L60	48	PL1x4 Reinforcement	23.00 - 24.50	1.0000	1.0000
L60	49	PL1x4 Reinforcement	23.00 - 24.50	1.0000	1.0000
L60	67	CCI-SFP-060100	23.00 - 24.50	1.0000	1.0000
L60	68	CCI-SFP-060100	23.00 - 24.50	1.0000	1.0000
L60	70	CCI-SFP-060100	23.00 - 24.50	1.0000	1.0000
L60	72	CCI-SFP-045100	23.00 - 24.50	1.0000	1.0000
L61	2	FB-L98B-034-XXX(3/8)	22.75 - 23.00	1.0000	1.0000
L61	3	PWRT-608-S(13/16)	22.75 - 23.00	1.0000	1.0000
L61	4	PWRT-606-S(7/8)	22.75 - 23.00	1.0000	1.0000
L61	5	RFFT-48SM-001-XXX(3/8)	22.75 - 23.00	1.0000	1.0000
L61	7	7983A(ELLIPTICAL)	22.75 - 23.00	1.0000	1.0000
L61	12	CU12PSM9P6XXX(1-1/2)	22.75 - 23.00	1.0000	1.0000
L61	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	22.75 - 23.00	1.0000	1.0000
L61	27	Safety Line 3/8	22.75 - 23.00	1.0000	1.0000
L61	29	PL1.25x6.875 Reinforcement	22.75 - 23.00	1.0000	1.0000
L61	30	PL1.25x6.875 Reinforcement	22.75 - 23.00	1.0000	1.0000
L61	31	PL1.25x6.875 Reinforcement	22.75 - 23.00	1.0000	1.0000
L61	47	PL1x4 Reinforcement	22.75 - 23.00	1.0000	1.0000
L61	48	PL1x4 Reinforcement	22.75 - 23.00	1.0000	1.0000
L61	49	PL1x4 Reinforcement	22.75 - 23.00	1.0000	1.0000
L61	67	CCI-SFP-060100	22.75 - 23.00	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L61	68	CCI-SFP-060100	22.75 - 23.00	1.0000	1.0000
L61	70	CCI-SFP-060100	22.75 - 23.00	1.0000	1.0000
L61	72	CCI-SFP-045100	22.75 - 23.00	1.0000	1.0000
L62	2	FB-L98B-034-XXX(3/8)	21.58 - 22.75	1.0000	1.0000
L62	3	PWRT-608-S(13/16)	21.58 - 22.75	1.0000	1.0000
L62	4	PWRT-606-S(7/8)	21.58 - 22.75	1.0000	1.0000
L62	5	RFFT-48SM-001-XXX(3/8)	21.58 - 22.75	1.0000	1.0000
L62	7	7983A(ELLIPTICAL)	21.58 - 22.75	1.0000	1.0000
L62	12	CU12PSM9P6XXX(1-1/2)	21.58 - 22.75	1.0000	1.0000
L62	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	21.58 - 22.75	1.0000	1.0000
L62	27	Safety Line 3/8	21.58 - 22.75	1.0000	1.0000
L62	29	PL1.25x6.875 Reinforcement	21.58 - 22.75	1.0000	1.0000
L62	30	PL1.25x6.875 Reinforcement	21.58 - 22.75	1.0000	1.0000
L62	31	PL1.25x6.875 Reinforcement	21.58 - 22.75	1.0000	1.0000
L62	47	PL1x4 Reinforcement	21.58 - 22.75	1.0000	1.0000
L62	48	PL1x4 Reinforcement	21.58 - 22.75	1.0000	1.0000
L62	49	PL1x4 Reinforcement	21.58 - 22.75	1.0000	1.0000
L62	67	CCI-SFP-060100	21.58 - 22.75	1.0000	1.0000
L62	68	CCI-SFP-060100	21.58 - 22.75	1.0000	1.0000
L62	70	CCI-SFP-060100	21.58 - 22.75	1.0000	1.0000
L62	72	CCI-SFP-045100	21.58 - 22.75	1.0000	1.0000
L63	2	FB-L98B-034-XXX(3/8)	21.33 - 21.58	1.0000	1.0000
L63	3	PWRT-608-S(13/16)	21.33 - 21.58	1.0000	1.0000
L63	4	PWRT-606-S(7/8)	21.33 - 21.58	1.0000	1.0000
L63	5	RFFT-48SM-001-XXX(3/8)	21.33 - 21.58	1.0000	1.0000
L63	7	7983A(ELLIPTICAL)	21.33 - 21.58	1.0000	1.0000
L63	12	CU12PSM9P6XXX(1-1/2)	21.33 - 21.58	1.0000	1.0000
L63	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	21.33 - 21.58	1.0000	1.0000
L63	27	Safety Line 3/8	21.33 - 21.58	1.0000	1.0000
L63	29	PL1.25x6.875 Reinforcement	21.33 - 21.58	1.0000	1.0000
L63	30	PL1.25x6.875 Reinforcement	21.33 - 21.58	1.0000	1.0000
L63	31	PL1.25x6.875 Reinforcement	21.33 - 21.58	1.0000	1.0000
L63	47	PL1x4 Reinforcement	21.33 - 21.58	1.0000	1.0000
L63	48	PL1x4 Reinforcement	21.33 - 21.58	1.0000	1.0000
L63	49	PL1x4 Reinforcement	21.33 - 21.58	1.0000	1.0000
L63	67	CCI-SFP-060100	21.33 - 21.58	1.0000	1.0000
L63	68	CCI-SFP-060100	21.33 - 21.58	1.0000	1.0000
L63	70	CCI-SFP-060100	21.33 - 21.58	1.0000	1.0000
L63	72	CCI-SFP-045100	21.33 - 21.58	1.0000	1.0000
L64	2	FB-L98B-034-XXX(3/8)	16.33 - 21.33	1.0000	1.0000
L64	3	PWRT-608-S(13/16)	16.33 - 21.33	1.0000	1.0000
L64	4	PWRT-606-S(7/8)	16.33 - 21.33	1.0000	1.0000
L64	5	RFFT-48SM-001-XXX(3/8)	16.33 - 21.33	1.0000	1.0000
L64	7	7983A(ELLIPTICAL)	16.33 - 21.33	1.0000	1.0000
L64	12	CU12PSM9P6XXX(1-1/2)	16.33 - 21.33	1.0000	1.0000
L64	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	16.33 - 21.33	1.0000	1.0000
L64	27	Safety Line 3/8	16.33 - 21.33	1.0000	1.0000
L64	29	PL1.25x6.875 Reinforcement	16.33 - 21.33	1.0000	1.0000
L64	30	PL1.25x6.875 Reinforcement	16.33 - 21.33	1.0000	1.0000
L64	31	PL1.25x6.875 Reinforcement	16.33 - 21.33	1.0000	1.0000
L64	32	PL1.25x6.875 Reinforcement	16.33 - 16.42	1.0000	1.0000
L64	33	PL1.25x6.875 Reinforcement	16.33 - 16.42	1.0000	1.0000
L64	47	PL1x4 Reinforcement	16.33 - 21.33	1.0000	1.0000
L64	48	PL1x4 Reinforcement	16.33 - 21.33	1.0000	1.0000
L64	49	PL1x4 Reinforcement	16.33 - 21.33	1.0000	1.0000
L64	67	CCI-SFP-060100	16.33 - 21.33	1.0000	1.0000
L64	68	CCI-SFP-060100	16.33 - 21.33	1.0000	1.0000
L64	70	CCI-SFP-060100	16.33 - 21.33	1.0000	1.0000
L64	72	CCI-SFP-045100	20.08 - 21.33	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L65	2	FB-L98B-034-XXX(3/8)	12.92 - 16.33	1.0000	1.0000
L65	3	PWRT-608-S(13/16)	12.92 - 16.33	1.0000	1.0000
L65	4	PWRT-606-S(7/8)	12.92 - 16.33	1.0000	1.0000
L65	5	RFFT-48SM-001-XXX(3/8)	12.92 - 16.33	1.0000	1.0000
L65	7	7983A(ELLIPTICAL)	12.92 - 16.33	1.0000	1.0000
L65	12	CU12PSM9P6XXX(1-1/2)	12.92 - 16.33	1.0000	1.0000
L65	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	12.92 - 16.33	1.0000	1.0000
L65	27	Safety Line 3/8	12.92 - 16.33	1.0000	1.0000
L65	29	PL1.25x6.875 Reinforcement	12.92 - 16.33	1.0000	1.0000
L65	30	PL1.25x6.875 Reinforcement	12.92 - 16.33	1.0000	1.0000
L65	31	PL1.25x6.875 Reinforcement	12.92 - 16.33	1.0000	1.0000
L65	32	PL1.25x6.875 Reinforcement	12.92 - 16.33	1.0000	1.0000
L65	33	PL1.25x6.875 Reinforcement	12.92 - 16.33	1.0000	1.0000
L65	47	PL1x4 Reinforcement	12.92 - 16.33	1.0000	1.0000
L65	48	PL1x4 Reinforcement	12.92 - 16.33	1.0000	1.0000
L65	49	PL1x4 Reinforcement	12.92 - 16.33	1.0000	1.0000
L65	67	CCI-SFP-060100	12.92 - 16.33	1.0000	1.0000
L65	68	CCI-SFP-060100	12.92 - 16.33	1.0000	1.0000
L65	70	CCI-SFP-060100	12.92 - 16.33	1.0000	1.0000
L66	2	FB-L98B-034-XXX(3/8)	12.67 - 12.92	1.0000	1.0000
L66	3	PWRT-608-S(13/16)	12.67 - 12.92	1.0000	1.0000
L66	4	PWRT-606-S(7/8)	12.67 - 12.92	1.0000	1.0000
L66	5	RFFT-48SM-001-XXX(3/8)	12.67 - 12.92	1.0000	1.0000
L66	7	7983A(ELLIPTICAL)	12.67 - 12.92	1.0000	1.0000
L66	12	CU12PSM9P6XXX(1-1/2)	12.67 - 12.92	1.0000	1.0000
L66	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	12.67 - 12.92	1.0000	1.0000
L66	27	Safety Line 3/8	12.67 - 12.92	1.0000	1.0000
L66	29	PL1.25x6.875 Reinforcement	12.67 - 12.92	1.0000	1.0000
L66	30	PL1.25x6.875 Reinforcement	12.67 - 12.92	1.0000	1.0000
L66	31	PL1.25x6.875 Reinforcement	12.67 - 12.92	1.0000	1.0000
L66	32	PL1.25x6.875 Reinforcement	12.67 - 12.92	1.0000	1.0000
L66	33	PL1.25x6.875 Reinforcement	12.67 - 12.92	1.0000	1.0000
L66	47	PL1x4 Reinforcement	12.67 - 12.92	1.0000	1.0000
L66	48	PL1x4 Reinforcement	12.67 - 12.92	1.0000	1.0000
L66	49	PL1x4 Reinforcement	12.67 - 12.92	1.0000	1.0000
L66	67	CCI-SFP-060100	12.67 - 12.92	1.0000	1.0000
L66	68	CCI-SFP-060100	12.67 - 12.92	1.0000	1.0000
L66	70	CCI-SFP-060100	12.67 - 12.92	1.0000	1.0000
L67	2	FB-L98B-034-XXX(3/8)	12.50 - 12.67	1.0000	1.0000
L67	3	PWRT-608-S(13/16)	12.50 - 12.67	1.0000	1.0000
L67	4	PWRT-606-S(7/8)	12.50 - 12.67	1.0000	1.0000
L67	5	RFFT-48SM-001-XXX(3/8)	12.50 - 12.67	1.0000	1.0000
L67	7	7983A(ELLIPTICAL)	12.50 - 12.67	1.0000	1.0000
L67	12	CU12PSM9P6XXX(1-1/2)	12.50 - 12.67	1.0000	1.0000
L67	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	12.50 - 12.67	1.0000	1.0000
L67	27	Safety Line 3/8	12.50 - 12.67	1.0000	1.0000
L67	29	PL1.25x6.875 Reinforcement	12.50 - 12.67	1.0000	1.0000
L67	30	PL1.25x6.875 Reinforcement	12.50 - 12.67	1.0000	1.0000
L67	31	PL1.25x6.875 Reinforcement	12.50 - 12.67	1.0000	1.0000
L67	32	PL1.25x6.875 Reinforcement	12.50 - 12.67	1.0000	1.0000
L67	33	PL1.25x6.875 Reinforcement	12.50 - 12.67	1.0000	1.0000
L67	47	PL1x4 Reinforcement	12.50 - 12.67	1.0000	1.0000
L67	48	PL1x4 Reinforcement	12.50 - 12.67	1.0000	1.0000
L67	49	PL1x4 Reinforcement	12.50 - 12.67	1.0000	1.0000
L67	67	CCI-SFP-060100	12.50 - 12.67	1.0000	1.0000
L67	68	CCI-SFP-060100	12.50 - 12.67	1.0000	1.0000
L67	70	CCI-SFP-060100	12.50 - 12.67	1.0000	1.0000
L68	2	FB-L98B-034-XXX(3/8)	12.25 - 12.50	1.0000	1.0000
L68	3	PWRT-608-S(13/16)	12.25 - 12.50	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L68	4	PWRT-606-S(7/8)	12.25 - 12.50	1.0000	1.0000
L68	5	RFFT-48SM-001-XXX(3/8)	12.25 - 12.50	1.0000	1.0000
L68	7	7983A(ELLIPTICAL)	12.25 - 12.50	1.0000	1.0000
L68	12	CU12PSM9P6XXX(1-1/2)	12.25 - 12.50	1.0000	1.0000
L68	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	12.25 - 12.50	1.0000	1.0000
L68	27	Safety Line 3/8	12.25 - 12.50	1.0000	1.0000
L68	29	PL1.25x6.875 Reinforcement	12.25 - 12.50	1.0000	1.0000
L68	30	PL1.25x6.875 Reinforcement	12.25 - 12.50	1.0000	1.0000
L68	31	PL1.25x6.875 Reinforcement	12.25 - 12.50	1.0000	1.0000
L68	32	PL1.25x6.875 Reinforcement	12.25 - 12.50	1.0000	1.0000
L68	33	PL1.25x6.875 Reinforcement	12.25 - 12.50	1.0000	1.0000
L68	47	PL1x4 Reinforcement	12.25 - 12.50	1.0000	1.0000
L68	48	PL1x4 Reinforcement	12.25 - 12.50	1.0000	1.0000
L68	49	PL1x4 Reinforcement	12.25 - 12.50	1.0000	1.0000
L68	67	CCI-SFP-060100	12.25 - 12.50	1.0000	1.0000
L68	68	CCI-SFP-060100	12.25 - 12.50	1.0000	1.0000
L68	70	CCI-SFP-060100	12.25 - 12.50	1.0000	1.0000
L69	2	FB-L98B-034-XXX(3/8)	12.00 - 12.25	1.0000	1.0000
L69	3	PWRT-608-S(13/16)	12.00 - 12.25	1.0000	1.0000
L69	4	PWRT-606-S(7/8)	12.00 - 12.25	1.0000	1.0000
L69	5	RFFT-48SM-001-XXX(3/8)	12.00 - 12.25	1.0000	1.0000
L69	7	7983A(ELLIPTICAL)	12.00 - 12.25	1.0000	1.0000
L69	12	CU12PSM9P6XXX(1-1/2)	12.00 - 12.25	1.0000	1.0000
L69	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	12.00 - 12.25	1.0000	1.0000
L69	27	Safety Line 3/8	12.00 - 12.25	1.0000	1.0000
L69	29	PL1.25x6.875 Reinforcement	12.00 - 12.25	1.0000	1.0000
L69	30	PL1.25x6.875 Reinforcement	12.00 - 12.25	1.0000	1.0000
L69	31	PL1.25x6.875 Reinforcement	12.00 - 12.25	1.0000	1.0000
L69	32	PL1.25x6.875 Reinforcement	12.00 - 12.25	1.0000	1.0000
L69	33	PL1.25x6.875 Reinforcement	12.00 - 12.25	1.0000	1.0000
L69	47	PL1x4 Reinforcement	12.00 - 12.25	1.0000	1.0000
L69	48	PL1x4 Reinforcement	12.00 - 12.25	1.0000	1.0000
L69	49	PL1x4 Reinforcement	12.00 - 12.25	1.0000	1.0000
L69	67	CCI-SFP-060100	12.00 - 12.25	1.0000	1.0000
L69	68	CCI-SFP-060100	12.00 - 12.25	1.0000	1.0000
L69	70	CCI-SFP-060100	12.00 - 12.25	1.0000	1.0000
L70	2	FB-L98B-034-XXX(3/8)	11.75 - 12.00	1.0000	1.0000
L70	3	PWRT-608-S(13/16)	11.75 - 12.00	1.0000	1.0000
L70	4	PWRT-606-S(7/8)	11.75 - 12.00	1.0000	1.0000
L70	5	RFFT-48SM-001-XXX(3/8)	11.75 - 12.00	1.0000	1.0000
L70	7	7983A(ELLIPTICAL)	11.75 - 12.00	1.0000	1.0000
L70	12	CU12PSM9P6XXX(1-1/2)	11.75 - 12.00	1.0000	1.0000
L70	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	11.75 - 12.00	1.0000	1.0000
L70	27	Safety Line 3/8	11.75 - 12.00	1.0000	1.0000
L70	29	PL1.25x6.875 Reinforcement	11.75 - 12.00	1.0000	1.0000
L70	30	PL1.25x6.875 Reinforcement	11.75 - 12.00	1.0000	1.0000
L70	31	PL1.25x6.875 Reinforcement	11.75 - 12.00	1.0000	1.0000
L70	32	PL1.25x6.875 Reinforcement	11.75 - 12.00	1.0000	1.0000
L70	33	PL1.25x6.875 Reinforcement	11.75 - 12.00	1.0000	1.0000
L70	47	PL1x4 Reinforcement	11.75 - 12.00	1.0000	1.0000
L70	48	PL1x4 Reinforcement	11.75 - 12.00	1.0000	1.0000
L70	49	PL1x4 Reinforcement	11.75 - 12.00	1.0000	1.0000
L70	67	CCI-SFP-060100	11.75 - 12.00	1.0000	1.0000
L70	68	CCI-SFP-060100	11.75 - 12.00	1.0000	1.0000
L70	70	CCI-SFP-060100	11.75 - 12.00	1.0000	1.0000
L71	2	FB-L98B-034-XXX(3/8)	8.50 - 11.75	1.0000	1.0000
L71	3	PWRT-608-S(13/16)	8.50 - 11.75	1.0000	1.0000
L71	4	PWRT-606-S(7/8)	8.50 - 11.75	1.0000	1.0000
L71	5	RFFT-48SM-001-XXX(3/8)	8.50 - 11.75	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L71	7	7983A(ELLIPTICAL)	8.50 - 11.75	1.0000	1.0000
L71	12	CU12PSM9P6XXX(1-1/2)	8.50 - 11.75	1.0000	1.0000
L71	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	8.50 - 11.75	1.0000	1.0000
L71	27	Safety Line 3/8	8.50 - 11.75	1.0000	1.0000
L71	29	PL1.25x6.875 Reinforcement	8.50 - 11.75	1.0000	1.0000
L71	30	PL1.25x6.875 Reinforcement	8.50 - 11.75	1.0000	1.0000
L71	31	PL1.25x6.875 Reinforcement	9.17 - 11.75	1.0000	1.0000
L71	32	PL1.25x6.875 Reinforcement	8.50 - 11.75	1.0000	1.0000
L71	33	PL1.25x6.875 Reinforcement	8.50 - 11.75	1.0000	1.0000
L71	47	PL1x4 Reinforcement	10.75 - 11.75	1.0000	1.0000
L71	48	PL1x4 Reinforcement	10.75 - 11.75	1.0000	1.0000
L71	49	PL1x4 Reinforcement	10.75 - 11.75	1.0000	1.0000
L71	63	Transition Stiffener 1x7	8.50 - 10.50	1.0000	1.0000
L71	64	Transition Stiffener 1x7	8.50 - 10.50	1.0000	1.0000
L71	65	Transition Stiffener 1x7	8.50 - 10.50	1.0000	1.0000
L71	67	CCI-SFP-060100	8.50 - 11.75	1.0000	1.0000
L71	68	CCI-SFP-060100	8.50 - 11.75	1.0000	1.0000
L71	70	CCI-SFP-060100	10.00 - 11.75	1.0000	1.0000
L72	2	FB-L98B-034-XXX(3/8)	8.25 - 8.50	1.0000	1.0000
L72	3	PWRT-608-S(13/16)	8.25 - 8.50	1.0000	1.0000
L72	4	PWRT-606-S(7/8)	8.25 - 8.50	1.0000	1.0000
L72	5	RFFT-48SM-001-XXX(3/8)	8.25 - 8.50	1.0000	1.0000
L72	7	7983A(ELLIPTICAL)	8.25 - 8.50	1.0000	1.0000
L72	12	CU12PSM9P6XXX(1-1/2)	8.25 - 8.50	1.0000	1.0000
L72	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	8.25 - 8.50	1.0000	1.0000
L72	27	Safety Line 3/8	8.25 - 8.50	1.0000	1.0000
L72	29	PL1.25x6.875 Reinforcement	8.25 - 8.50	1.0000	1.0000
L72	30	PL1.25x6.875 Reinforcement	8.25 - 8.50	1.0000	1.0000
L72	32	PL1.25x6.875 Reinforcement	8.25 - 8.50	1.0000	1.0000
L72	33	PL1.25x6.875 Reinforcement	8.25 - 8.50	1.0000	1.0000
L72	63	Transition Stiffener 1x7	8.25 - 8.50	1.0000	1.0000
L72	64	Transition Stiffener 1x7	8.25 - 8.50	1.0000	1.0000
L72	65	Transition Stiffener 1x7	8.25 - 8.50	1.0000	1.0000
L72	67	CCI-SFP-060100	8.25 - 8.50	1.0000	1.0000
L72	68	CCI-SFP-060100	8.25 - 8.50	1.0000	1.0000
L73	2	FB-L98B-034-XXX(3/8)	7.00 - 8.25	1.0000	1.0000
L73	3	PWRT-608-S(13/16)	7.00 - 8.25	1.0000	1.0000
L73	4	PWRT-606-S(7/8)	7.00 - 8.25	1.0000	1.0000
L73	5	RFFT-48SM-001-XXX(3/8)	7.00 - 8.25	1.0000	1.0000
L73	7	7983A(ELLIPTICAL)	7.00 - 8.25	1.0000	1.0000
L73	12	CU12PSM9P6XXX(1-1/2)	7.00 - 8.25	1.0000	1.0000
L73	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	7.00 - 8.25	1.0000	1.0000
L73	27	Safety Line 3/8	7.00 - 8.25	1.0000	1.0000
L73	29	PL1.25x6.875 Reinforcement	7.00 - 8.25	1.0000	1.0000
L73	30	PL1.25x6.875 Reinforcement	7.00 - 8.25	1.0000	1.0000
L73	32	PL1.25x6.875 Reinforcement	7.00 - 8.25	1.0000	1.0000
L73	33	PL1.25x6.875 Reinforcement	7.00 - 8.25	1.0000	1.0000
L73	63	Transition Stiffener 1x7	7.00 - 8.25	1.0000	1.0000
L73	64	Transition Stiffener 1x7	7.00 - 8.25	1.0000	1.0000
L73	65	Transition Stiffener 1x7	7.00 - 8.25	1.0000	1.0000
L73	67	CCI-SFP-060100	7.00 - 8.25	1.0000	1.0000
L73	68	CCI-SFP-060100	7.00 - 8.25	1.0000	1.0000
L74	2	FB-L98B-034-XXX(3/8)	6.75 - 7.00	1.0000	1.0000
L74	3	PWRT-608-S(13/16)	6.75 - 7.00	1.0000	1.0000
L74	4	PWRT-606-S(7/8)	6.75 - 7.00	1.0000	1.0000
L74	5	RFFT-48SM-001-XXX(3/8)	6.75 - 7.00	1.0000	1.0000
L74	7	7983A(ELLIPTICAL)	6.75 - 7.00	1.0000	1.0000
L74	12	CU12PSM9P6XXX(1-1/2)	6.75 - 7.00	1.0000	1.0000
L74	21	MLC HYBRID 6X12	6.75 - 7.00	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
		6AWGX6(1-1/2)			
L74	27	Safety Line 3/8	6.75 - 7.00	1.0000	1.0000
L74	29	PL1.25x6.875 Reinforcement	6.75 - 7.00	1.0000	1.0000
L74	30	PL1.25x6.875 Reinforcement	6.75 - 7.00	1.0000	1.0000
L74	32	PL1.25x6.875 Reinforcement	6.75 - 7.00	1.0000	1.0000
L74	33	PL1.25x6.875 Reinforcement	6.75 - 7.00	1.0000	1.0000
L74	63	Transition Stiffener 1x7	6.75 - 7.00	1.0000	1.0000
L74	64	Transition Stiffener 1x7	6.75 - 7.00	1.0000	1.0000
L74	65	Transition Stiffener 1x7	6.75 - 7.00	1.0000	1.0000
L74	67	CCI-SFP-060100	6.75 - 7.00	1.0000	1.0000
L74	68	CCI-SFP-060100	6.75 - 7.00	1.0000	1.0000
L75	2	FB-L98B-034-XXX(3/8)	1.75 - 6.75	1.0000	1.0000
L75	3	PWRT-608-S(13/16)	1.75 - 6.75	1.0000	1.0000
L75	4	PWRT-606-S(7/8)	1.75 - 6.75	1.0000	1.0000
L75	5	RFFT-48SM-001-XXX(3/8)	1.75 - 6.75	1.0000	1.0000
L75	7	7983A(ELLIPTICAL)	1.75 - 6.75	1.0000	1.0000
L75	12	CU12PSM9P6XXX(1-1/2)	1.75 - 6.75	1.0000	1.0000
L75	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	1.75 - 6.75	1.0000	1.0000
L75	27	Safety Line 3/8	1.75 - 6.75	1.0000	1.0000
L75	29	PL1.25x6.875 Reinforcement	1.75 - 6.75	1.0000	1.0000
L75	30	PL1.25x6.875 Reinforcement	1.75 - 6.75	1.0000	1.0000
L75	32	PL1.25x6.875 Reinforcement	1.75 - 6.75	1.0000	1.0000
L75	33	PL1.25x6.875 Reinforcement	1.75 - 6.75	1.0000	1.0000
L75	63	Transition Stiffener 1x7	1.75 - 6.75	1.0000	1.0000
L75	64	Transition Stiffener 1x7	1.75 - 6.75	1.0000	1.0000
L75	65	Transition Stiffener 1x7	1.75 - 6.75	1.0000	1.0000
L75	67	CCI-SFP-060100	5.00 - 6.75	1.0000	1.0000
L75	68	CCI-SFP-060100	5.00 - 6.75	1.0000	1.0000
L76	2	FB-L98B-034-XXX(3/8)	0.00 - 1.75	1.0000	1.0000
L76	3	PWRT-608-S(13/16)	0.00 - 1.75	1.0000	1.0000
L76	4	PWRT-606-S(7/8)	0.00 - 1.75	1.0000	1.0000
L76	5	RFFT-48SM-001-XXX(3/8)	0.00 - 1.75	1.0000	1.0000
L76	7	7983A(ELLIPTICAL)	0.00 - 1.75	1.0000	1.0000
L76	12	CU12PSM9P6XXX(1-1/2)	0.00 - 1.75	1.0000	1.0000
L76	21	MLC HYBRID 6X12 6AWGX6(1-1/2)	0.00 - 1.75	1.0000	1.0000
L76	27	Safety Line 3/8	0.00 - 1.75	1.0000	1.0000
L76	29	PL1.25x6.875 Reinforcement	0.00 - 1.75	1.0000	1.0000
L76	30	PL1.25x6.875 Reinforcement	0.00 - 1.75	1.0000	1.0000
L76	32	PL1.25x6.875 Reinforcement	0.00 - 1.75	1.0000	1.0000
L76	33	PL1.25x6.875 Reinforcement	0.00 - 1.75	1.0000	1.0000
L76	63	Transition Stiffener 1x7	0.00 - 1.75	1.0000	1.0000
L76	64	Transition Stiffener 1x7	0.00 - 1.75	1.0000	1.0000
L76	65	Transition Stiffener 1x7	0.00 - 1.75	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
L5	93	CCI-AFP-045100	124.25 - 125.42	Auto	0.1983
L5	94	CCI-AFP-045100	124.25 - 125.42	Auto	0.1983
L5	95	CCI-AFP-045100	124.25 - 125.42	Auto	0.1983
L6	93	CCI-AFP-045100	123.42 - 124.25	Auto	0.1865
L6	94	CCI-AFP-045100	123.42 -	Auto	0.1865

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L6	95	CCI-AFP-045100	124.25 123.42 - 124.25	Auto	0.1865
L7	93	CCI-AFP-045100	123.17 - 123.42	Auto	0.3886
L7	94	CCI-AFP-045100	123.17 - 123.42	Auto	0.3886
L7	95	CCI-AFP-045100	123.17 - 123.42	Auto	0.3886
L8	93	CCI-AFP-045100	118.17 - 123.17	Auto	0.3429
L8	94	CCI-AFP-045100	118.17 - 123.17	Auto	0.3429
L8	95	CCI-AFP-045100	118.17 - 123.17	Auto	0.3429
L9	93	CCI-AFP-045100	113.17 - 118.17	Auto	0.2693
L9	94	CCI-AFP-045100	113.17 - 118.17	Auto	0.2693
L9	95	CCI-AFP-045100	113.17 - 118.17	Auto	0.2693
L10	93	CCI-AFP-045100	109.50 - 113.17	Auto	0.2110
L10	94	CCI-AFP-045100	109.50 - 113.17	Auto	0.2110
L10	95	CCI-AFP-045100	109.50 - 113.17	Auto	0.2110
L10	97	CCI-AFP-040075	109.50 - 111.00	Auto	0.0981
L10	99	CCI-AFP-040075	109.50 - 111.00	Auto	0.0981
L11	93	CCI-AFP-045100	109.25 - 109.50	Auto	0.2550
L11	94	CCI-AFP-045100	109.25 - 109.50	Auto	0.2550
L11	95	CCI-AFP-045100	109.25 - 109.50	Auto	0.2550
L11	97	CCI-AFP-040075	109.25 - 109.50	Auto	0.1619
L11	99	CCI-AFP-040075	109.25 - 109.50	Auto	0.1619
L12	59	PL1x4 Reinforcement	104.75 - 106.50	Auto	0.0956
L12	60	PL1x4 Reinforcement	104.75 - 106.50	Auto	0.0956
L12	61	PL1x4 Reinforcement	104.75 - 106.50	Auto	0.0956
L12	91	CCI-AFP-05012520	104.75 - 105.33	Auto	0.2703
L12	93	CCI-AFP-045100	104.75 - 109.25	Auto	0.2122
L12	94	CCI-AFP-045100	104.75 - 109.25	Auto	0.2122
L12	95	CCI-AFP-045100	104.75 - 109.25	Auto	0.2122
L12	97	CCI-AFP-040075	104.75 - 109.25	Auto	0.1138
L12	99	CCI-AFP-040075	104.75 - 109.25	Auto	0.1138
L13	59	PL1x4 Reinforcement	104.50 - 104.75	Auto	0.2248

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L13	60	PL1x4 Reinforcement	104.50 - 104.75	Auto	0.2248
L13	61	PL1x4 Reinforcement	104.50 - 104.75	Auto	0.2248
L13	91	CCI-AFP-05012520	104.50 - 104.75	Auto	0.3798
L13	93	CCI-AFP-045100	104.50 - 104.75	Auto	0.3109
L13	94	CCI-AFP-045100	104.50 - 104.75	Auto	0.3109
L13	95	CCI-AFP-045100	104.50 - 104.75	Auto	0.3109
L13	97	CCI-AFP-040075	104.50 - 104.75	Auto	0.2248
L13	99	CCI-AFP-040075	104.50 - 104.75	Auto	0.2248
L14	59	PL1x4 Reinforcement	102.42 - 104.50	Auto	0.2010
L14	60	PL1x4 Reinforcement	102.42 - 104.50	Auto	0.2010
L14	61	PL1x4 Reinforcement	102.42 - 104.50	Auto	0.2010
L14	91	CCI-AFP-05012520	102.42 - 104.50	Auto	0.3608
L14	93	CCI-AFP-045100	102.42 - 104.50	Auto	0.2897
L14	94	CCI-AFP-045100	102.42 - 104.50	Auto	0.2897
L14	95	CCI-AFP-045100	102.42 - 104.50	Auto	0.2897
L14	97	CCI-AFP-040075	102.42 - 104.50	Auto	0.2010
L14	99	CCI-AFP-040075	102.42 - 104.50	Auto	0.2010
L15	59	PL1x4 Reinforcement	102.17 - 102.42	Auto	0.0515
L15	60	PL1x4 Reinforcement	102.17 - 102.42	Auto	0.0515
L15	61	PL1x4 Reinforcement	102.17 - 102.42	Auto	0.0515
L15	91	CCI-AFP-05012520	102.17 - 102.42	Auto	0.2412
L15	93	CCI-AFP-045100	102.17 - 102.42	Auto	0.1569
L15	94	CCI-AFP-045100	102.17 - 102.42	Auto	0.1569
L15	95	CCI-AFP-045100	102.17 - 102.42	Auto	0.1569
L15	97	CCI-AFP-040075	102.17 - 102.42	Auto	0.0515
L15	99	CCI-AFP-040075	102.17 - 102.42	Auto	0.0515
L16	43	PL1.25x3.625 Reinforcement	98.75 - 100.00	Auto	0.0000
L16	44	PL1.25x3.625 Reinforcement	98.75 - 100.00	Auto	0.0000
L16	45	PL1.25x3.625 Reinforcement	98.75 - 100.00	Auto	0.0000
L16	59	PL1x4 Reinforcement	98.75 - 102.17	Auto	0.0191
L16	60	PL1x4 Reinforcement	98.75 - 102.17	Auto	0.0191
L16	61	PL1x4 Reinforcement	98.75 - 102.17	Auto	0.0191
L16	86	CCI-SFP-040075	98.75 - 100.33	Auto	0.0071
L16	87	CCI-SFP-040075	98.75 - 100.33	Auto	0.0071
L16	91	CCI-AFP-05012520	98.75 - 102.17	Auto	0.2152

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L16	93	CCI-AFP-045100	100.42 - 102.17	Auto	0.1377
L16	94	CCI-AFP-045100	100.42 - 102.17	Auto	0.1377
L16	95	CCI-AFP-045100	100.42 - 102.17	Auto	0.1377
L16	97	CCI-AFP-040075	98.75 - 102.17	Auto	0.0191
L16	99	CCI-AFP-040075	101.00 - 102.17	Auto	0.0338
L17	43	PL1.25x3.625 Reinforcement	98.50 - 98.75	Auto	0.1033
L17	44	PL1.25x3.625 Reinforcement	98.50 - 98.75	Auto	0.1033
L17	45	PL1.25x3.625 Reinforcement	98.50 - 98.75	Auto	0.1033
L17	59	PL1x4 Reinforcement	98.50 - 98.75	Auto	0.1874
L17	60	PL1x4 Reinforcement	98.50 - 98.75	Auto	0.1874
L17	61	PL1x4 Reinforcement	98.50 - 98.75	Auto	0.1874
L17	86	CCI-SFP-040075	98.50 - 98.75	Auto	0.1874
L17	87	CCI-SFP-040075	98.50 - 98.75	Auto	0.1874
L17	91	CCI-AFP-05012520	98.50 - 98.75	Auto	0.3499
L17	97	CCI-AFP-040075	98.50 - 98.75	Auto	0.1874
L18	43	PL1.25x3.625 Reinforcement	97.50 - 98.50	Auto	0.0942
L18	44	PL1.25x3.625 Reinforcement	97.50 - 98.50	Auto	0.0942
L18	45	PL1.25x3.625 Reinforcement	97.50 - 98.50	Auto	0.0942
L18	59	PL1x4 Reinforcement	97.50 - 98.50	Auto	0.1791
L18	60	PL1x4 Reinforcement	97.50 - 98.50	Auto	0.1791
L18	61	PL1x4 Reinforcement	97.50 - 98.50	Auto	0.1791
L18	86	CCI-SFP-040075	97.50 - 98.50	Auto	0.1791
L18	87	CCI-SFP-040075	97.50 - 98.50	Auto	0.1791
L18	91	CCI-AFP-05012520	97.50 - 98.50	Auto	0.3433
L18	97	CCI-AFP-040075	97.50 - 98.50	Auto	0.1791
L19	43	PL1.25x3.625 Reinforcement	97.25 - 97.50	Auto	0.0204
L19	44	PL1.25x3.625 Reinforcement	97.25 - 97.50	Auto	0.0204
L19	45	PL1.25x3.625 Reinforcement	97.25 - 97.50	Auto	0.0204
L19	59	PL1x4 Reinforcement	97.25 - 97.50	Auto	0.1122
L19	60	PL1x4 Reinforcement	97.25 - 97.50	Auto	0.1122
L19	61	PL1x4 Reinforcement	97.25 - 97.50	Auto	0.1122
L19	86	CCI-SFP-040075	97.25 - 97.50	Auto	0.1122
L19	87	CCI-SFP-040075	97.25 - 97.50	Auto	0.1122
L19	91	CCI-AFP-05012520	97.25 - 97.50	Auto	0.2898
L19	97	CCI-AFP-040075	97.25 - 97.50	Auto	0.1122
L20	43	PL1.25x3.625 Reinforcement	92.00 - 97.25	Auto	0.0006
L20	44	PL1.25x3.625 Reinforcement	92.00 - 97.25	Auto	0.0006
L20	45	PL1.25x3.625 Reinforcement	92.00 - 97.25	Auto	0.0006
L20	59	PL1x4 Reinforcement	92.00 - 97.25	Auto	0.0675
L20	60	PL1x4 Reinforcement	92.00 - 97.25	Auto	0.0675
L20	61	PL1x4 Reinforcement	92.00 - 97.25	Auto	0.0675
L20	86	CCI-SFP-040075	92.00 - 97.25	Auto	0.0675
L20	87	CCI-SFP-040075	92.00 - 97.25	Auto	0.0675
L20	91	CCI-AFP-05012520	92.00 - 97.25	Auto	0.2540
L20	97	CCI-AFP-040075	96.00 - 97.25	Auto	0.0939
L21	43	PL1.25x3.625 Reinforcement	90.55 - 92.00	Auto	0.0009
L21	44	PL1.25x3.625 Reinforcement	90.55 - 92.00	Auto	0.0009
L21	45	PL1.25x3.625 Reinforcement	90.55 - 92.00	Auto	0.0009
L21	59	PL1x4 Reinforcement	90.55 - 92.00	Auto	0.0897
L21	60	PL1x4 Reinforcement	90.55 - 92.00	Auto	0.0897
L21	61	PL1x4 Reinforcement	90.55 - 92.00	Auto	0.0897
L21	86	CCI-SFP-040075	90.55 - 92.00	Auto	0.0897
L21	87	CCI-SFP-040075	90.55 - 92.00	Auto	0.0897
L21	91	CCI-AFP-05012520	90.55 - 92.00	Auto	0.2718
L22	43	PL1.25x3.625 Reinforcement	89.25 - 90.55	Auto	0.0000
L22	44	PL1.25x3.625 Reinforcement	89.25 - 90.55	Auto	0.0000
L22	45	PL1.25x3.625 Reinforcement	89.25 - 90.55	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L22	59	PL1x4 Reinforcement	89.25 - 90.55	Auto	0.0546
L22	60	PL1x4 Reinforcement	89.25 - 90.55	Auto	0.0546
L22	61	PL1x4 Reinforcement	89.25 - 90.55	Auto	0.0546
L22	86	CCI-SFP-040075	89.25 - 90.55	Auto	0.0546
L22	87	CCI-SFP-040075	89.25 - 90.55	Auto	0.0546
L22	89	CCI-SFP-040075	89.25 - 90.33	Auto	0.0532
L22	91	CCI-AFP-05012520	89.25 - 90.55	Auto	0.2437
L23	39	PL1.25x5.5 Reinforcement	89.00 - 89.25	Auto	0.4146
L23	40	PL1.25x5.5 Reinforcement	89.00 - 89.25	Auto	0.4146
L23	41	PL1.25x5.5 Reinforcement	89.00 - 89.25	Auto	0.4146
L23	59	PL1x4 Reinforcement	89.00 - 89.25	Auto	0.1950
L23	60	PL1x4 Reinforcement	89.00 - 89.25	Auto	0.1950
L23	61	PL1x4 Reinforcement	89.00 - 89.25	Auto	0.1950
L23	86	CCI-SFP-040075	89.00 - 89.25	Auto	0.1950
L23	87	CCI-SFP-040075	89.00 - 89.25	Auto	0.1950
L23	89	CCI-SFP-040075	89.00 - 89.25	Auto	0.1950
L23	91	CCI-AFP-05012520	89.00 - 89.25	Auto	0.3560
L24	39	PL1.25x5.5 Reinforcement	88.25 - 89.00	Auto	0.3975
L24	40	PL1.25x5.5 Reinforcement	88.25 - 89.00	Auto	0.3975
L24	41	PL1.25x5.5 Reinforcement	88.25 - 89.00	Auto	0.3975
L24	59	PL1x4 Reinforcement	88.25 - 89.00	Auto	0.1716
L24	60	PL1x4 Reinforcement	88.25 - 89.00	Auto	0.1716
L24	61	PL1x4 Reinforcement	88.25 - 89.00	Auto	0.1716
L24	86	CCI-SFP-040075	88.25 - 89.00	Auto	0.1716
L24	87	CCI-SFP-040075	88.25 - 89.00	Auto	0.1716
L24	89	CCI-SFP-040075	88.25 - 89.00	Auto	0.1716
L24	91	CCI-AFP-05012520	88.25 - 89.00	Auto	0.3373
L25	39	PL1.25x5.5 Reinforcement	88.00 - 88.25	Auto	0.2891
L25	40	PL1.25x5.5 Reinforcement	88.00 - 88.25	Auto	0.2891
L25	41	PL1.25x5.5 Reinforcement	88.00 - 88.25	Auto	0.2891
L25	59	PL1x4 Reinforcement	88.00 - 88.25	Auto	0.0226
L25	60	PL1x4 Reinforcement	88.00 - 88.25	Auto	0.0226
L25	61	PL1x4 Reinforcement	88.00 - 88.25	Auto	0.0226
L25	86	CCI-SFP-040075	88.00 - 88.25	Auto	0.0226
L25	87	CCI-SFP-040075	88.00 - 88.25	Auto	0.0226
L25	89	CCI-SFP-040075	88.00 - 88.25	Auto	0.0226
L25	91	CCI-AFP-05012520	88.00 - 88.25	Auto	0.2181
L26	39	PL1.25x5.5 Reinforcement	87.83 - 88.00	Auto	0.2871
L26	40	PL1.25x5.5 Reinforcement	87.83 - 88.00	Auto	0.2871
L26	41	PL1.25x5.5 Reinforcement	87.83 - 88.00	Auto	0.2871
L26	59	PL1x4 Reinforcement	87.83 - 88.00	Auto	0.0198
L26	60	PL1x4 Reinforcement	87.83 - 88.00	Auto	0.0198
L26	61	PL1x4 Reinforcement	87.83 - 88.00	Auto	0.0198
L26	86	CCI-SFP-040075	87.83 - 88.00	Auto	0.0198
L26	87	CCI-SFP-040075	87.83 - 88.00	Auto	0.0198
L26	89	CCI-SFP-040075	87.83 - 88.00	Auto	0.0198
L26	91	CCI-AFP-05012520	87.83 - 88.00	Auto	0.2158
L27	39	PL1.25x5.5 Reinforcement	87.58 - 87.83	Auto	0.2425
L27	40	PL1.25x5.5 Reinforcement	87.58 - 87.83	Auto	0.2425
L27	41	PL1.25x5.5 Reinforcement	87.58 - 87.83	Auto	0.2425
L27	59	PL1x4 Reinforcement	87.58 - 87.83	Auto	0.0000
L27	60	PL1x4 Reinforcement	87.58 - 87.83	Auto	0.0000
L27	61	PL1x4 Reinforcement	87.58 - 87.83	Auto	0.0000
L27	86	CCI-SFP-040075	87.58 - 87.83	Auto	0.0000
L27	87	CCI-SFP-040075	87.58 - 87.83	Auto	0.0000
L27	89	CCI-SFP-040075	87.58 - 87.83	Auto	0.0000
L27	91	CCI-AFP-05012520	87.58 - 87.83	Auto	0.1667
L28	39	PL1.25x5.5 Reinforcement	82.58 - 87.58	Auto	0.2048
L28	40	PL1.25x5.5 Reinforcement	82.58 - 87.58	Auto	0.2048
L28	41	PL1.25x5.5 Reinforcement	82.58 - 87.58	Auto	0.2048
L28	59	PL1x4 Reinforcement	86.50 - 87.58	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L28	60	PL1x4 Reinforcement	86.50 - 87.58	Auto	0.0000
L28	61	PL1x4 Reinforcement	86.50 - 87.58	Auto	0.0000
L28	86	CCI-SFP-040075	82.58 - 87.58	Auto	0.0000
L28	87	CCI-SFP-040075	82.58 - 87.58	Auto	0.0000
L28	89	CCI-SFP-040075	82.58 - 87.58	Auto	0.0000
L28	91	CCI-AFP-05012520	85.33 - 87.58	Auto	0.1400
L29	39	PL1.25x5.5 Reinforcement	77.58 - 82.58	Auto	0.1441
L29	40	PL1.25x5.5 Reinforcement	77.58 - 82.58	Auto	0.1441
L29	41	PL1.25x5.5 Reinforcement	77.58 - 82.58	Auto	0.1441
L29	55	PL1x4 Reinforcement	77.58 - 78.75	Auto	0.0000
L29	56	PL1x4 Reinforcement	77.58 - 78.75	Auto	0.0000
L29	57	PL1x4 Reinforcement	77.58 - 78.75	Auto	0.0000
L29	86	CCI-SFP-040075	77.58 - 82.58	Auto	0.0000
L29	87	CCI-SFP-040075	77.58 - 82.58	Auto	0.0000
L29	89	CCI-SFP-040075	77.58 - 82.58	Auto	0.0000
L30	39	PL1.25x5.5 Reinforcement	77.00 - 77.58	Auto	0.1170
L30	40	PL1.25x5.5 Reinforcement	77.00 - 77.58	Auto	0.1170
L30	41	PL1.25x5.5 Reinforcement	77.00 - 77.58	Auto	0.1170
L30	55	PL1x4 Reinforcement	77.00 - 77.58	Auto	0.0000
L30	56	PL1x4 Reinforcement	77.00 - 77.58	Auto	0.0000
L30	57	PL1x4 Reinforcement	77.00 - 77.58	Auto	0.0000
L30	86	CCI-SFP-040075	77.00 - 77.58	Auto	0.0000
L30	87	CCI-SFP-040075	77.00 - 77.58	Auto	0.0000
L30	89	CCI-SFP-040075	77.00 - 77.58	Auto	0.0000
L31	39	PL1.25x5.5 Reinforcement	76.75 - 77.00	Auto	0.2105
L31	40	PL1.25x5.5 Reinforcement	76.75 - 77.00	Auto	0.2105
L31	41	PL1.25x5.5 Reinforcement	76.75 - 77.00	Auto	0.2105
L31	55	PL1x4 Reinforcement	76.75 - 77.00	Auto	0.0000
L31	56	PL1x4 Reinforcement	76.75 - 77.00	Auto	0.0000
L31	57	PL1x4 Reinforcement	76.75 - 77.00	Auto	0.0000
L31	86	CCI-SFP-040075	76.75 - 77.00	Auto	0.0000
L31	87	CCI-SFP-040075	76.75 - 77.00	Auto	0.0000
L31	89	CCI-SFP-040075	76.75 - 77.00	Auto	0.0000
L32	39	PL1.25x5.5 Reinforcement	76.33 - 76.75	Auto	0.2072
L32	40	PL1.25x5.5 Reinforcement	76.33 - 76.75	Auto	0.2072
L32	41	PL1.25x5.5 Reinforcement	76.33 - 76.75	Auto	0.2072
L32	55	PL1x4 Reinforcement	76.33 - 76.75	Auto	0.0000
L32	56	PL1x4 Reinforcement	76.33 - 76.75	Auto	0.0000
L32	57	PL1x4 Reinforcement	76.33 - 76.75	Auto	0.0000
L32	86	CCI-SFP-040075	76.33 - 76.75	Auto	0.0000
L32	87	CCI-SFP-040075	76.33 - 76.75	Auto	0.0000
L32	89	CCI-SFP-040075	76.33 - 76.75	Auto	0.0000
L33	39	PL1.25x5.5 Reinforcement	76.08 - 76.33	Auto	0.2040
L33	40	PL1.25x5.5 Reinforcement	76.08 - 76.33	Auto	0.2040
L33	41	PL1.25x5.5 Reinforcement	76.08 - 76.33	Auto	0.2040
L33	55	PL1x4 Reinforcement	76.08 - 76.33	Auto	0.0000
L33	56	PL1x4 Reinforcement	76.08 - 76.33	Auto	0.0000
L33	57	PL1x4 Reinforcement	76.08 - 76.33	Auto	0.0000
L33	86	CCI-SFP-040075	76.08 - 76.33	Auto	0.0000
L33	87	CCI-SFP-040075	76.08 - 76.33	Auto	0.0000
L33	89	CCI-SFP-040075	76.08 - 76.33	Auto	0.0000
L34	39	PL1.25x5.5 Reinforcement	74.25 - 76.08	Auto	0.1817
L34	40	PL1.25x5.5 Reinforcement	74.25 - 76.08	Auto	0.1817
L34	41	PL1.25x5.5 Reinforcement	74.25 - 76.08	Auto	0.1817
L34	55	PL1x4 Reinforcement	74.25 - 76.08	Auto	0.0000
L34	56	PL1x4 Reinforcement	74.25 - 76.08	Auto	0.0000
L34	57	PL1x4 Reinforcement	74.25 - 76.08	Auto	0.0000
L34	81	CCI-SFP-045100	74.25 - 75.25	Auto	0.0000
L34	82	CCI-SFP-045100	74.25 - 75.25	Auto	0.0000
L34	84	CCI-SFP-040075	74.25 - 75.25	Auto	0.0000
L34	86	CCI-SFP-040075	75.33 - 76.08	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L34	87	CCI-SFP-040075	75.33 - 76.08	Auto	0.0000
L34	89	CCI-SFP-040075	75.33 - 76.08	Auto	0.0000
L35	39	PL1.25x5.5 Reinforcement	74.00 - 74.25	Auto	0.2142
L35	40	PL1.25x5.5 Reinforcement	74.00 - 74.25	Auto	0.2142
L35	41	PL1.25x5.5 Reinforcement	74.00 - 74.25	Auto	0.2142
L35	55	PL1x4 Reinforcement	74.00 - 74.25	Auto	0.0000
L35	56	PL1x4 Reinforcement	74.00 - 74.25	Auto	0.0000
L35	57	PL1x4 Reinforcement	74.00 - 74.25	Auto	0.0000
L35	81	CCI-SFP-045100	74.00 - 74.25	Auto	0.0396
L35	82	CCI-SFP-045100	74.00 - 74.25	Auto	0.0396
L35	84	CCI-SFP-040075	74.00 - 74.25	Auto	0.0000
L36	39	PL1.25x5.5 Reinforcement	73.75 - 74.00	Auto	0.2118
L36	40	PL1.25x5.5 Reinforcement	73.75 - 74.00	Auto	0.2118
L36	41	PL1.25x5.5 Reinforcement	73.75 - 74.00	Auto	0.2118
L36	55	PL1x4 Reinforcement	73.75 - 74.00	Auto	0.0000
L36	56	PL1x4 Reinforcement	73.75 - 74.00	Auto	0.0000
L36	57	PL1x4 Reinforcement	73.75 - 74.00	Auto	0.0000
L36	81	CCI-SFP-045100	73.75 - 74.00	Auto	0.0367
L36	82	CCI-SFP-045100	73.75 - 74.00	Auto	0.0367
L36	84	CCI-SFP-040075	73.75 - 74.00	Auto	0.0000
L37	39	PL1.25x5.5 Reinforcement	73.50 - 73.75	Auto	0.2216
L37	40	PL1.25x5.5 Reinforcement	73.50 - 73.75	Auto	0.2216
L37	41	PL1.25x5.5 Reinforcement	73.50 - 73.75	Auto	0.2216
L37	55	PL1x4 Reinforcement	73.50 - 73.75	Auto	0.0000
L37	56	PL1x4 Reinforcement	73.50 - 73.75	Auto	0.0000
L37	57	PL1x4 Reinforcement	73.50 - 73.75	Auto	0.0000
L37	81	CCI-SFP-045100	73.50 - 73.75	Auto	0.0486
L37	82	CCI-SFP-045100	73.50 - 73.75	Auto	0.0486
L37	84	CCI-SFP-040075	73.50 - 73.75	Auto	0.0000
L38	39	PL1.25x5.5 Reinforcement	68.50 - 73.50	Auto	0.1778
L38	40	PL1.25x5.5 Reinforcement	68.50 - 73.50	Auto	0.1778
L38	41	PL1.25x5.5 Reinforcement	68.50 - 73.50	Auto	0.1778
L38	55	PL1x4 Reinforcement	68.50 - 73.50	Auto	0.0000
L38	56	PL1x4 Reinforcement	68.50 - 73.50	Auto	0.0000
L38	57	PL1x4 Reinforcement	68.50 - 73.50	Auto	0.0000
L38	81	CCI-SFP-045100	68.50 - 73.50	Auto	0.0052
L38	82	CCI-SFP-045100	68.50 - 73.50	Auto	0.0052
L38	84	CCI-SFP-040075	68.50 - 73.50	Auto	0.0000
L39	39	PL1.25x5.5 Reinforcement	63.50 - 68.50	Auto	0.1171
L39	40	PL1.25x5.5 Reinforcement	63.50 - 68.50	Auto	0.1171
L39	41	PL1.25x5.5 Reinforcement	63.50 - 68.50	Auto	0.1171
L39	55	PL1x4 Reinforcement	63.50 - 68.50	Auto	0.0000
L39	56	PL1x4 Reinforcement	63.50 - 68.50	Auto	0.0000
L39	57	PL1x4 Reinforcement	63.50 - 68.50	Auto	0.0000
L39	81	CCI-SFP-045100	63.50 - 68.50	Auto	0.0000
L39	82	CCI-SFP-045100	63.50 - 68.50	Auto	0.0000
L39	84	CCI-SFP-040075	63.50 - 68.50	Auto	0.0000
L40	39	PL1.25x5.5 Reinforcement	60.50 - 63.50	Auto	0.0661
L40	40	PL1.25x5.5 Reinforcement	60.50 - 63.50	Auto	0.0661
L40	41	PL1.25x5.5 Reinforcement	60.50 - 63.50	Auto	0.0661
L40	51	PL1x4 Reinforcement	60.50 - 62.25	Auto	0.0000
L40	52	PL1x4 Reinforcement	60.50 - 62.25	Auto	0.0000
L40	53	PL1x4 Reinforcement	60.50 - 62.25	Auto	0.0000
L40	55	PL1x4 Reinforcement	60.50 - 63.50	Auto	0.0000
L40	56	PL1x4 Reinforcement	60.50 - 63.50	Auto	0.0000
L40	57	PL1x4 Reinforcement	60.50 - 63.50	Auto	0.0000
L40	81	CCI-SFP-045100	60.50 - 63.50	Auto	0.0000
L40	82	CCI-SFP-045100	60.50 - 63.50	Auto	0.0000
L40	84	CCI-SFP-040075	60.50 - 63.50	Auto	0.0000
L41	39	PL1.25x5.5 Reinforcement	60.25 - 60.50	Auto	0.0504
L41	40	PL1.25x5.5 Reinforcement	60.25 - 60.50	Auto	0.0504

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L41	41	PL1.25x5.5 Reinforcement	60.25 - 60.50	Auto	0.0504
L41	51	PL1x4 Reinforcement	60.25 - 60.50	Auto	0.0000
L41	52	PL1x4 Reinforcement	60.25 - 60.50	Auto	0.0000
L41	53	PL1x4 Reinforcement	60.25 - 60.50	Auto	0.0000
L41	55	PL1x4 Reinforcement	60.25 - 60.50	Auto	0.0000
L41	56	PL1x4 Reinforcement	60.25 - 60.50	Auto	0.0000
L41	57	PL1x4 Reinforcement	60.25 - 60.50	Auto	0.0000
L41	81	CCI-SFP-045100	60.25 - 60.50	Auto	0.0000
L41	82	CCI-SFP-045100	60.25 - 60.50	Auto	0.0000
L41	84	CCI-SFP-040075	60.25 - 60.50	Auto	0.0000
L42	39	PL1.25x5.5 Reinforcement	59.50 - 60.25	Auto	0.0455
L42	40	PL1.25x5.5 Reinforcement	59.50 - 60.25	Auto	0.0455
L42	41	PL1.25x5.5 Reinforcement	59.50 - 60.25	Auto	0.0455
L42	51	PL1x4 Reinforcement	59.50 - 60.25	Auto	0.0000
L42	52	PL1x4 Reinforcement	59.50 - 60.25	Auto	0.0000
L42	53	PL1x4 Reinforcement	59.50 - 60.25	Auto	0.0000
L42	55	PL1x4 Reinforcement	59.50 - 60.25	Auto	0.0000
L42	56	PL1x4 Reinforcement	59.50 - 60.25	Auto	0.0000
L42	57	PL1x4 Reinforcement	59.50 - 60.25	Auto	0.0000
L42	81	CCI-SFP-045100	59.50 - 60.25	Auto	0.0000
L42	82	CCI-SFP-045100	59.50 - 60.25	Auto	0.0000
L42	84	CCI-SFP-040075	59.50 - 60.25	Auto	0.0000
L43	35	PL1.25x6.625 Reinforcement	59.25 - 59.50	Auto	0.2289
L43	36	PL1.25x6.625 Reinforcement	59.25 - 59.50	Auto	0.2289
L43	37	PL1.25x6.625 Reinforcement	59.25 - 59.50	Auto	0.2289
L43	51	PL1x4 Reinforcement	59.25 - 59.50	Auto	0.0000
L43	52	PL1x4 Reinforcement	59.25 - 59.50	Auto	0.0000
L43	53	PL1x4 Reinforcement	59.25 - 59.50	Auto	0.0000
L43	55	PL1x4 Reinforcement	59.25 - 59.50	Auto	0.0000
L43	56	PL1x4 Reinforcement	59.25 - 59.50	Auto	0.0000
L43	57	PL1x4 Reinforcement	59.25 - 59.50	Auto	0.0000
L43	81	CCI-SFP-045100	59.25 - 59.50	Auto	0.0000
L43	82	CCI-SFP-045100	59.25 - 59.50	Auto	0.0000
L43	84	CCI-SFP-040075	59.25 - 59.50	Auto	0.0000
L44	35	PL1.25x6.625 Reinforcement	54.25 - 59.25	Auto	0.1926
L44	36	PL1.25x6.625 Reinforcement	54.25 - 59.25	Auto	0.1926
L44	37	PL1.25x6.625 Reinforcement	54.25 - 59.25	Auto	0.1926
L44	51	PL1x4 Reinforcement	54.25 - 59.25	Auto	0.0000
L44	52	PL1x4 Reinforcement	54.25 - 59.25	Auto	0.0000
L44	53	PL1x4 Reinforcement	54.25 - 59.25	Auto	0.0000
L44	55	PL1x4 Reinforcement	58.75 - 59.25	Auto	0.0000
L44	56	PL1x4 Reinforcement	58.75 - 59.25	Auto	0.0000
L44	57	PL1x4 Reinforcement	58.75 - 59.25	Auto	0.0000
L44	81	CCI-SFP-045100	54.25 - 59.25	Auto	0.0000
L44	82	CCI-SFP-045100	54.25 - 59.25	Auto	0.0000
L44	84	CCI-SFP-040075	54.25 - 59.25	Auto	0.0000
L45	35	PL1.25x6.625 Reinforcement	45.80 - 54.25	Auto	0.1333
L45	36	PL1.25x6.625 Reinforcement	45.80 - 54.25	Auto	0.1333
L45	37	PL1.25x6.625 Reinforcement	45.80 - 54.25	Auto	0.1333
L45	51	PL1x4 Reinforcement	45.80 - 54.25	Auto	0.0000
L45	52	PL1x4 Reinforcement	45.80 - 54.25	Auto	0.0000
L45	53	PL1x4 Reinforcement	45.80 - 54.25	Auto	0.0000
L45	81	CCI-SFP-045100	45.80 - 54.25	Auto	0.0000
L45	82	CCI-SFP-045100	45.80 - 54.25	Auto	0.0000
L45	84	CCI-SFP-040075	45.80 - 54.25	Auto	0.0000
L46	35	PL1.25x6.625 Reinforcement	44.80 - 45.80	Auto	0.1157
L46	36	PL1.25x6.625 Reinforcement	44.80 - 45.80	Auto	0.1157
L46	37	PL1.25x6.625 Reinforcement	44.80 - 45.80	Auto	0.1157
L46	51	PL1x4 Reinforcement	44.80 - 45.80	Auto	0.0000
L46	52	PL1x4 Reinforcement	44.80 - 45.80	Auto	0.0000
L46	53	PL1x4 Reinforcement	44.80 - 45.80	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L46	76	CCI-SFP-045100	44.80 - 45.08	Auto	0.0000
L46	78	CCI-SFP-060100	44.80 - 45.17	Auto	0.0208
L46	79	CCI-SFP-060100	44.80 - 45.17	Auto	0.0208
L46	81	CCI-SFP-045100	45.25 - 45.80	Auto	0.0000
L46	82	CCI-SFP-045100	45.25 - 45.80	Auto	0.0000
L46	84	CCI-SFP-040075	45.25 - 45.80	Auto	0.0000
L47	35	PL1.25x6.625 Reinforcement	43.58 - 44.80	Auto	0.1069
L47	36	PL1.25x6.625 Reinforcement	43.58 - 44.80	Auto	0.1069
L47	37	PL1.25x6.625 Reinforcement	43.58 - 44.80	Auto	0.1069
L47	51	PL1x4 Reinforcement	43.58 - 44.80	Auto	0.0000
L47	52	PL1x4 Reinforcement	43.58 - 44.80	Auto	0.0000
L47	53	PL1x4 Reinforcement	43.58 - 44.80	Auto	0.0000
L47	76	CCI-SFP-045100	43.58 - 44.80	Auto	0.0000
L47	78	CCI-SFP-060100	43.58 - 44.80	Auto	0.0138
L47	79	CCI-SFP-060100	43.58 - 44.80	Auto	0.0138
L48	35	PL1.25x6.625 Reinforcement	43.33 - 43.58	Auto	0.1060
L48	36	PL1.25x6.625 Reinforcement	43.33 - 43.58	Auto	0.1060
L48	37	PL1.25x6.625 Reinforcement	43.33 - 43.58	Auto	0.1060
L48	51	PL1x4 Reinforcement	43.33 - 43.58	Auto	0.0000
L48	52	PL1x4 Reinforcement	43.33 - 43.58	Auto	0.0000
L48	53	PL1x4 Reinforcement	43.33 - 43.58	Auto	0.0000
L48	76	CCI-SFP-045100	43.33 - 43.58	Auto	0.0000
L48	78	CCI-SFP-060100	43.33 - 43.58	Auto	0.0129
L48	79	CCI-SFP-060100	43.33 - 43.58	Auto	0.0129
L49	35	PL1.25x6.625 Reinforcement	43.17 - 43.33	Auto	0.1044
L49	36	PL1.25x6.625 Reinforcement	43.17 - 43.33	Auto	0.1044
L49	37	PL1.25x6.625 Reinforcement	43.17 - 43.33	Auto	0.1044
L49	51	PL1x4 Reinforcement	43.17 - 43.33	Auto	0.0000
L49	52	PL1x4 Reinforcement	43.17 - 43.33	Auto	0.0000
L49	53	PL1x4 Reinforcement	43.17 - 43.33	Auto	0.0000
L49	76	CCI-SFP-045100	43.17 - 43.33	Auto	0.0000
L49	78	CCI-SFP-060100	43.17 - 43.33	Auto	0.0111
L49	79	CCI-SFP-060100	43.17 - 43.33	Auto	0.0111
L50	35	PL1.25x6.625 Reinforcement	42.92 - 43.17	Auto	0.1381
L50	36	PL1.25x6.625 Reinforcement	42.92 - 43.17	Auto	0.1381
L50	37	PL1.25x6.625 Reinforcement	42.92 - 43.17	Auto	0.1381
L50	51	PL1x4 Reinforcement	42.92 - 43.17	Auto	0.0000
L50	52	PL1x4 Reinforcement	42.92 - 43.17	Auto	0.0000
L50	53	PL1x4 Reinforcement	42.92 - 43.17	Auto	0.0000
L50	76	CCI-SFP-045100	42.92 - 43.17	Auto	0.0000
L50	78	CCI-SFP-060100	42.92 - 43.17	Auto	0.0483
L50	79	CCI-SFP-060100	42.92 - 43.17	Auto	0.0483
L51	35	PL1.25x6.625 Reinforcement	39.00 - 42.92	Auto	0.1113
L51	36	PL1.25x6.625 Reinforcement	39.00 - 42.92	Auto	0.1113
L51	37	PL1.25x6.625 Reinforcement	39.00 - 42.92	Auto	0.1113
L51	49	PL1x4 Reinforcement	39.00 - 40.75	Auto	0.0000
L51	51	PL1x4 Reinforcement	39.00 - 42.92	Auto	0.0000
L51	52	PL1x4 Reinforcement	39.00 - 42.92	Auto	0.0000
L51	53	PL1x4 Reinforcement	39.00 - 42.92	Auto	0.0000
L51	76	CCI-SFP-045100	39.00 - 42.92	Auto	0.0000
L51	78	CCI-SFP-060100	39.00 - 42.92	Auto	0.0187
L51	79	CCI-SFP-060100	39.00 - 42.92	Auto	0.0187
L52	35	PL1.25x6.625 Reinforcement	38.75 - 39.00	Auto	0.1098
L52	36	PL1.25x6.625 Reinforcement	38.75 - 39.00	Auto	0.1098
L52	37	PL1.25x6.625 Reinforcement	38.75 - 39.00	Auto	0.1098
L52	49	PL1x4 Reinforcement	38.75 - 39.00	Auto	0.0000
L52	51	PL1x4 Reinforcement	38.75 - 39.00	Auto	0.0000
L52	52	PL1x4 Reinforcement	38.75 - 39.00	Auto	0.0000
L52	53	PL1x4 Reinforcement	38.75 - 39.00	Auto	0.0000
L52	76	CCI-SFP-045100	38.75 - 39.00	Auto	0.0000
L52	78	CCI-SFP-060100	38.75 - 39.00	Auto	0.0171

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L52	79	CCI-SFP-060100	38.75 - 39.00	Auto	0.0171
L53	35	PL1.25x6.625 Reinforcement	37.17 - 38.75	Auto	0.0974
L53	36	PL1.25x6.625 Reinforcement	37.17 - 38.75	Auto	0.0974
L53	37	PL1.25x6.625 Reinforcement	37.17 - 38.75	Auto	0.0974
L53	49	PL1x4 Reinforcement	37.17 - 38.75	Auto	0.0000
L53	51	PL1x4 Reinforcement	37.17 - 38.75	Auto	0.0000
L53	52	PL1x4 Reinforcement	37.17 - 38.75	Auto	0.0000
L53	53	PL1x4 Reinforcement	37.17 - 38.75	Auto	0.0000
L53	76	CCI-SFP-045100	37.17 - 38.75	Auto	0.0000
L53	78	CCI-SFP-060100	37.17 - 38.75	Auto	0.0038
L53	79	CCI-SFP-060100	37.17 - 38.75	Auto	0.0038
L54	35	PL1.25x6.625 Reinforcement	36.92 - 37.17	Auto	0.0698
L54	36	PL1.25x6.625 Reinforcement	36.92 - 37.17	Auto	0.0698
L54	37	PL1.25x6.625 Reinforcement	36.92 - 37.17	Auto	0.0698
L54	49	PL1x4 Reinforcement	36.92 - 37.17	Auto	0.0000
L54	51	PL1x4 Reinforcement	36.92 - 37.17	Auto	0.0000
L54	52	PL1x4 Reinforcement	36.92 - 37.17	Auto	0.0000
L54	53	PL1x4 Reinforcement	36.92 - 37.17	Auto	0.0000
L54	76	CCI-SFP-045100	36.92 - 37.17	Auto	0.0000
L54	78	CCI-SFP-060100	36.92 - 37.17	Auto	0.0000
L54	79	CCI-SFP-060100	36.92 - 37.17	Auto	0.0000
L55	35	PL1.25x6.625 Reinforcement	34.00 - 36.92	Auto	0.0572
L55	36	PL1.25x6.625 Reinforcement	34.00 - 36.92	Auto	0.0572
L55	37	PL1.25x6.625 Reinforcement	34.00 - 36.92	Auto	0.0572
L55	47	PL1x4 Reinforcement	34.00 - 35.75	Auto	0.0000
L55	48	PL1x4 Reinforcement	34.00 - 35.75	Auto	0.0000
L55	49	PL1x4 Reinforcement	34.00 - 36.92	Auto	0.0000
L55	51	PL1x4 Reinforcement	34.00 - 36.92	Auto	0.0000
L55	52	PL1x4 Reinforcement	34.00 - 36.92	Auto	0.0000
L55	53	PL1x4 Reinforcement	34.00 - 36.92	Auto	0.0000
L55	72	CCI-SFP-045100	34.00 - 35.08	Auto	0.0000
L55	74	CCI-SFP-045100	34.00 - 35.08	Auto	0.0000
L55	76	CCI-SFP-045100	34.00 - 36.92	Auto	0.0000
L55	78	CCI-SFP-060100	35.17 - 36.92	Auto	0.0000
L55	79	CCI-SFP-060100	35.17 - 36.92	Auto	0.0000
L56	35	PL1.25x6.625 Reinforcement	33.75 - 34.00	Auto	0.0394
L56	36	PL1.25x6.625 Reinforcement	33.75 - 34.00	Auto	0.0394
L56	37	PL1.25x6.625 Reinforcement	33.75 - 34.00	Auto	0.0394
L56	47	PL1x4 Reinforcement	33.75 - 34.00	Auto	0.0000
L56	48	PL1x4 Reinforcement	33.75 - 34.00	Auto	0.0000
L56	49	PL1x4 Reinforcement	33.75 - 34.00	Auto	0.0000
L56	51	PL1x4 Reinforcement	33.75 - 34.00	Auto	0.0000
L56	52	PL1x4 Reinforcement	33.75 - 34.00	Auto	0.0000
L56	53	PL1x4 Reinforcement	33.75 - 34.00	Auto	0.0000
L56	72	CCI-SFP-045100	33.75 - 34.00	Auto	0.0000
L56	74	CCI-SFP-045100	33.75 - 34.00	Auto	0.0000
L56	76	CCI-SFP-045100	33.75 - 34.00	Auto	0.0000
L57	35	PL1.25x6.625 Reinforcement	29.75 - 33.75	Auto	0.0174
L57	36	PL1.25x6.625 Reinforcement	29.75 - 33.75	Auto	0.0174
L57	37	PL1.25x6.625 Reinforcement	29.75 - 33.75	Auto	0.0174
L57	47	PL1x4 Reinforcement	29.75 - 33.75	Auto	0.0000
L57	48	PL1x4 Reinforcement	29.75 - 33.75	Auto	0.0000
L57	49	PL1x4 Reinforcement	29.75 - 33.75	Auto	0.0000
L57	51	PL1x4 Reinforcement	32.25 - 33.75	Auto	0.0000
L57	52	PL1x4 Reinforcement	32.25 - 33.75	Auto	0.0000
L57	53	PL1x4 Reinforcement	32.25 - 33.75	Auto	0.0000
L57	72	CCI-SFP-045100	29.75 - 33.75	Auto	0.0000
L57	74	CCI-SFP-045100	29.75 - 33.75	Auto	0.0000
L57	76	CCI-SFP-045100	29.75 - 33.75	Auto	0.0000
L58	29	PL1.25x6.875 Reinforcement	29.50 - 29.75	Auto	0.0367
L58	30	PL1.25x6.875 Reinforcement	29.50 - 29.75	Auto	0.0367

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L58	31	PL1.25x6.875 Reinforcement	29.50 - 29.75	Auto	0.0367
L58	47	PL1x4 Reinforcement	29.50 - 29.75	Auto	0.0000
L58	48	PL1x4 Reinforcement	29.50 - 29.75	Auto	0.0000
L58	49	PL1x4 Reinforcement	29.50 - 29.75	Auto	0.0000
L58	72	CCI-SFP-045100	29.50 - 29.75	Auto	0.0000
L58	74	CCI-SFP-045100	29.50 - 29.75	Auto	0.0000
L58	76	CCI-SFP-045100	29.50 - 29.75	Auto	0.0000
L59	29	PL1.25x6.875 Reinforcement	24.50 - 29.50	Auto	0.0123
L59	30	PL1.25x6.875 Reinforcement	24.50 - 29.50	Auto	0.0123
L59	31	PL1.25x6.875 Reinforcement	24.50 - 29.50	Auto	0.0123
L59	47	PL1x4 Reinforcement	24.50 - 29.50	Auto	0.0000
L59	48	PL1x4 Reinforcement	24.50 - 29.50	Auto	0.0000
L59	49	PL1x4 Reinforcement	24.50 - 29.50	Auto	0.0000
L59	67	CCI-SFP-060100	24.50 - 25.00	Auto	0.0000
L59	68	CCI-SFP-060100	24.50 - 25.00	Auto	0.0000
L59	70	CCI-SFP-060100	24.50 - 25.00	Auto	0.0000
L59	72	CCI-SFP-045100	24.50 - 29.50	Auto	0.0000
L59	74	CCI-SFP-045100	25.08 - 29.50	Auto	0.0000
L59	76	CCI-SFP-045100	25.08 - 29.50	Auto	0.0000
L60	29	PL1.25x6.875 Reinforcement	23.00 - 24.50	Auto	0.0000
L60	30	PL1.25x6.875 Reinforcement	23.00 - 24.50	Auto	0.0000
L60	31	PL1.25x6.875 Reinforcement	23.00 - 24.50	Auto	0.0000
L60	47	PL1x4 Reinforcement	23.00 - 24.50	Auto	0.0000
L60	48	PL1x4 Reinforcement	23.00 - 24.50	Auto	0.0000
L60	49	PL1x4 Reinforcement	23.00 - 24.50	Auto	0.0000
L60	67	CCI-SFP-060100	23.00 - 24.50	Auto	0.0000
L60	68	CCI-SFP-060100	23.00 - 24.50	Auto	0.0000
L60	70	CCI-SFP-060100	23.00 - 24.50	Auto	0.0000
L60	72	CCI-SFP-045100	23.00 - 24.50	Auto	0.0000
L61	29	PL1.25x6.875 Reinforcement	22.75 - 23.00	Auto	0.0236
L61	30	PL1.25x6.875 Reinforcement	22.75 - 23.00	Auto	0.0236
L61	31	PL1.25x6.875 Reinforcement	22.75 - 23.00	Auto	0.0236
L61	47	PL1x4 Reinforcement	22.75 - 23.00	Auto	0.0000
L61	48	PL1x4 Reinforcement	22.75 - 23.00	Auto	0.0000
L61	49	PL1x4 Reinforcement	22.75 - 23.00	Auto	0.0000
L61	67	CCI-SFP-060100	22.75 - 23.00	Auto	0.0000
L61	68	CCI-SFP-060100	22.75 - 23.00	Auto	0.0000
L61	70	CCI-SFP-060100	22.75 - 23.00	Auto	0.0000
L61	72	CCI-SFP-045100	22.75 - 23.00	Auto	0.0000
L62	29	PL1.25x6.875 Reinforcement	21.58 - 22.75	Auto	0.0181
L62	30	PL1.25x6.875 Reinforcement	21.58 - 22.75	Auto	0.0181
L62	31	PL1.25x6.875 Reinforcement	21.58 - 22.75	Auto	0.0181
L62	47	PL1x4 Reinforcement	21.58 - 22.75	Auto	0.0000
L62	48	PL1x4 Reinforcement	21.58 - 22.75	Auto	0.0000
L62	49	PL1x4 Reinforcement	21.58 - 22.75	Auto	0.0000
L62	67	CCI-SFP-060100	21.58 - 22.75	Auto	0.0000
L62	68	CCI-SFP-060100	21.58 - 22.75	Auto	0.0000
L62	70	CCI-SFP-060100	21.58 - 22.75	Auto	0.0000
L62	72	CCI-SFP-045100	21.58 - 22.75	Auto	0.0000
L63	29	PL1.25x6.875 Reinforcement	21.33 - 21.58	Auto	0.0000
L63	30	PL1.25x6.875 Reinforcement	21.33 - 21.58	Auto	0.0000
L63	31	PL1.25x6.875 Reinforcement	21.33 - 21.58	Auto	0.0000
L63	47	PL1x4 Reinforcement	21.33 - 21.58	Auto	0.0000
L63	48	PL1x4 Reinforcement	21.33 - 21.58	Auto	0.0000
L63	49	PL1x4 Reinforcement	21.33 - 21.58	Auto	0.0000
L63	67	CCI-SFP-060100	21.33 - 21.58	Auto	0.0000
L63	68	CCI-SFP-060100	21.33 - 21.58	Auto	0.0000
L63	70	CCI-SFP-060100	21.33 - 21.58	Auto	0.0000
L63	72	CCI-SFP-045100	21.33 - 21.58	Auto	0.0000
L64	29	PL1.25x6.875 Reinforcement	16.33 - 21.33	Auto	0.0000
L64	30	PL1.25x6.875 Reinforcement	16.33 - 21.33	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L64	31	PL1.25x6.875 Reinforcement	16.33 - 21.33	Auto	0.0000
L64	32	PL1.25x6.875 Reinforcement	16.33 - 16.42	Auto	0.0000
L64	33	PL1.25x6.875 Reinforcement	16.33 - 16.42	Auto	0.0000
L64	47	PL1x4 Reinforcement	16.33 - 21.33	Auto	0.0000
L64	48	PL1x4 Reinforcement	16.33 - 21.33	Auto	0.0000
L64	49	PL1x4 Reinforcement	16.33 - 21.33	Auto	0.0000
L64	67	CCI-SFP-060100	16.33 - 21.33	Auto	0.0000
L64	68	CCI-SFP-060100	16.33 - 21.33	Auto	0.0000
L64	70	CCI-SFP-060100	16.33 - 21.33	Auto	0.0000
L64	72	CCI-SFP-045100	20.08 - 21.33	Auto	0.0000
L65	29	PL1.25x6.875 Reinforcement	12.92 - 16.33	Auto	0.0000
L65	30	PL1.25x6.875 Reinforcement	12.92 - 16.33	Auto	0.0000
L65	31	PL1.25x6.875 Reinforcement	12.92 - 16.33	Auto	0.0000
L65	32	PL1.25x6.875 Reinforcement	12.92 - 16.33	Auto	0.0000
L65	33	PL1.25x6.875 Reinforcement	12.92 - 16.33	Auto	0.0000
L65	47	PL1x4 Reinforcement	12.92 - 16.33	Auto	0.0000
L65	48	PL1x4 Reinforcement	12.92 - 16.33	Auto	0.0000
L65	49	PL1x4 Reinforcement	12.92 - 16.33	Auto	0.0000
L65	67	CCI-SFP-060100	12.92 - 16.33	Auto	0.0000
L65	68	CCI-SFP-060100	12.92 - 16.33	Auto	0.0000
L65	70	CCI-SFP-060100	12.92 - 16.33	Auto	0.0000
L66	29	PL1.25x6.875 Reinforcement	12.67 - 12.92	Auto	0.0000
L66	30	PL1.25x6.875 Reinforcement	12.67 - 12.92	Auto	0.0000
L66	31	PL1.25x6.875 Reinforcement	12.67 - 12.92	Auto	0.0000
L66	32	PL1.25x6.875 Reinforcement	12.67 - 12.92	Auto	0.0000
L66	33	PL1.25x6.875 Reinforcement	12.67 - 12.92	Auto	0.0000
L66	47	PL1x4 Reinforcement	12.67 - 12.92	Auto	0.0000
L66	48	PL1x4 Reinforcement	12.67 - 12.92	Auto	0.0000
L66	49	PL1x4 Reinforcement	12.67 - 12.92	Auto	0.0000
L66	67	CCI-SFP-060100	12.67 - 12.92	Auto	0.0000
L66	68	CCI-SFP-060100	12.67 - 12.92	Auto	0.0000
L66	70	CCI-SFP-060100	12.67 - 12.92	Auto	0.0000
L67	29	PL1.25x6.875 Reinforcement	12.50 - 12.67	Auto	0.0000
L67	30	PL1.25x6.875 Reinforcement	12.50 - 12.67	Auto	0.0000
L67	31	PL1.25x6.875 Reinforcement	12.50 - 12.67	Auto	0.0000
L67	32	PL1.25x6.875 Reinforcement	12.50 - 12.67	Auto	0.0000
L67	33	PL1.25x6.875 Reinforcement	12.50 - 12.67	Auto	0.0000
L67	47	PL1x4 Reinforcement	12.50 - 12.67	Auto	0.0000
L67	48	PL1x4 Reinforcement	12.50 - 12.67	Auto	0.0000
L67	49	PL1x4 Reinforcement	12.50 - 12.67	Auto	0.0000
L67	67	CCI-SFP-060100	12.50 - 12.67	Auto	0.0000
L67	68	CCI-SFP-060100	12.50 - 12.67	Auto	0.0000
L67	70	CCI-SFP-060100	12.50 - 12.67	Auto	0.0000
L68	29	PL1.25x6.875 Reinforcement	12.25 - 12.50	Auto	0.0000
L68	30	PL1.25x6.875 Reinforcement	12.25 - 12.50	Auto	0.0000
L68	31	PL1.25x6.875 Reinforcement	12.25 - 12.50	Auto	0.0000
L68	32	PL1.25x6.875 Reinforcement	12.25 - 12.50	Auto	0.0000
L68	33	PL1.25x6.875 Reinforcement	12.25 - 12.50	Auto	0.0000
L68	47	PL1x4 Reinforcement	12.25 - 12.50	Auto	0.0000
L68	48	PL1x4 Reinforcement	12.25 - 12.50	Auto	0.0000
L68	49	PL1x4 Reinforcement	12.25 - 12.50	Auto	0.0000
L68	67	CCI-SFP-060100	12.25 - 12.50	Auto	0.0000
L68	68	CCI-SFP-060100	12.25 - 12.50	Auto	0.0000
L68	70	CCI-SFP-060100	12.25 - 12.50	Auto	0.0000
L69	29	PL1.25x6.875 Reinforcement	12.00 - 12.25	Auto	0.0000
L69	30	PL1.25x6.875 Reinforcement	12.00 - 12.25	Auto	0.0000
L69	31	PL1.25x6.875 Reinforcement	12.00 - 12.25	Auto	0.0000
L69	32	PL1.25x6.875 Reinforcement	12.00 - 12.25	Auto	0.0000
L69	33	PL1.25x6.875 Reinforcement	12.00 - 12.25	Auto	0.0000
L69	47	PL1x4 Reinforcement	12.00 - 12.25	Auto	0.0000
L69	48	PL1x4 Reinforcement	12.00 - 12.25	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L69	49	PL1x4 Reinforcement	12.00 - 12.25	Auto	0.0000
L69	67	CCI-SFP-060100	12.00 - 12.25	Auto	0.0000
L69	68	CCI-SFP-060100	12.00 - 12.25	Auto	0.0000
L69	70	CCI-SFP-060100	12.00 - 12.25	Auto	0.0000
L70	29	PL1.25x6.875 Reinforcement	11.75 - 12.00	Auto	0.0000
L70	30	PL1.25x6.875 Reinforcement	11.75 - 12.00	Auto	0.0000
L70	31	PL1.25x6.875 Reinforcement	11.75 - 12.00	Auto	0.0000
L70	32	PL1.25x6.875 Reinforcement	11.75 - 12.00	Auto	0.0000
L70	33	PL1.25x6.875 Reinforcement	11.75 - 12.00	Auto	0.0000
L70	47	PL1x4 Reinforcement	11.75 - 12.00	Auto	0.0000
L70	48	PL1x4 Reinforcement	11.75 - 12.00	Auto	0.0000
L70	49	PL1x4 Reinforcement	11.75 - 12.00	Auto	0.0000
L70	67	CCI-SFP-060100	11.75 - 12.00	Auto	0.0000
L70	68	CCI-SFP-060100	11.75 - 12.00	Auto	0.0000
L70	70	CCI-SFP-060100	11.75 - 12.00	Auto	0.0000
L71	29	PL1.25x6.875 Reinforcement	8.50 - 11.75	Auto	0.0000
L71	30	PL1.25x6.875 Reinforcement	8.50 - 11.75	Auto	0.0000
L71	31	PL1.25x6.875 Reinforcement	9.17 - 11.75	Auto	0.0000
L71	32	PL1.25x6.875 Reinforcement	8.50 - 11.75	Auto	0.0000
L71	33	PL1.25x6.875 Reinforcement	8.50 - 11.75	Auto	0.0000
L71	47	PL1x4 Reinforcement	10.75 - 11.75	Auto	0.0000
L71	48	PL1x4 Reinforcement	10.75 - 11.75	Auto	0.0000
L71	49	PL1x4 Reinforcement	10.75 - 11.75	Auto	0.0000
L71	63	Transition Stiffener 1x7	8.50 - 10.50	Auto	0.0000
L71	64	Transition Stiffener 1x7	8.50 - 10.50	Auto	0.0000
L71	65	Transition Stiffener 1x7	8.50 - 10.50	Auto	0.0000
L71	67	CCI-SFP-060100	8.50 - 11.75	Auto	0.0000
L71	68	CCI-SFP-060100	8.50 - 11.75	Auto	0.0000
L71	70	CCI-SFP-060100	10.00 - 11.75	Auto	0.0000
L72	29	PL1.25x6.875 Reinforcement	8.25 - 8.50	Auto	0.0000
L72	30	PL1.25x6.875 Reinforcement	8.25 - 8.50	Auto	0.0000
L72	32	PL1.25x6.875 Reinforcement	8.25 - 8.50	Auto	0.0000
L72	33	PL1.25x6.875 Reinforcement	8.25 - 8.50	Auto	0.0000
L72	63	Transition Stiffener 1x7	8.25 - 8.50	Auto	0.0000
L72	64	Transition Stiffener 1x7	8.25 - 8.50	Auto	0.0000
L72	65	Transition Stiffener 1x7	8.25 - 8.50	Auto	0.0000
L72	67	CCI-SFP-060100	8.25 - 8.50	Auto	0.0000
L72	68	CCI-SFP-060100	8.25 - 8.50	Auto	0.0000
L73	29	PL1.25x6.875 Reinforcement	7.00 - 8.25	Auto	0.0000
L73	30	PL1.25x6.875 Reinforcement	7.00 - 8.25	Auto	0.0000
L73	32	PL1.25x6.875 Reinforcement	7.00 - 8.25	Auto	0.0000
L73	33	PL1.25x6.875 Reinforcement	7.00 - 8.25	Auto	0.0000
L73	63	Transition Stiffener 1x7	7.00 - 8.25	Auto	0.0000
L73	64	Transition Stiffener 1x7	7.00 - 8.25	Auto	0.0000
L73	65	Transition Stiffener 1x7	7.00 - 8.25	Auto	0.0000
L73	67	CCI-SFP-060100	7.00 - 8.25	Auto	0.0000
L73	68	CCI-SFP-060100	7.00 - 8.25	Auto	0.0000
L74	29	PL1.25x6.875 Reinforcement	6.75 - 7.00	Auto	0.0000
L74	30	PL1.25x6.875 Reinforcement	6.75 - 7.00	Auto	0.0000
L74	32	PL1.25x6.875 Reinforcement	6.75 - 7.00	Auto	0.0000
L74	33	PL1.25x6.875 Reinforcement	6.75 - 7.00	Auto	0.0000
L74	63	Transition Stiffener 1x7	6.75 - 7.00	Auto	0.0000
L74	64	Transition Stiffener 1x7	6.75 - 7.00	Auto	0.0000
L74	65	Transition Stiffener 1x7	6.75 - 7.00	Auto	0.0000
L74	67	CCI-SFP-060100	6.75 - 7.00	Auto	0.0000
L74	68	CCI-SFP-060100	6.75 - 7.00	Auto	0.0000
L75	29	PL1.25x6.875 Reinforcement	1.75 - 6.75	Auto	0.0000
L75	30	PL1.25x6.875 Reinforcement	1.75 - 6.75	Auto	0.0000
L75	32	PL1.25x6.875 Reinforcement	1.75 - 6.75	Auto	0.0000
L75	33	PL1.25x6.875 Reinforcement	1.75 - 6.75	Auto	0.0000
L75	63	Transition Stiffener 1x7	1.75 - 6.75	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L75	64	Transition Stiffener 1x7	1.75 - 6.75	Auto	0.0000
L75	65	Transition Stiffener 1x7	1.75 - 6.75	Auto	0.0000
L75	67	CCI-SFP-060100	5.00 - 6.75	Auto	0.0000
L75	68	CCI-SFP-060100	5.00 - 6.75	Auto	0.0000
L76	29	PL1.25x6.875 Reinforcement	0.00 - 1.75	Auto	0.0000
L76	30	PL1.25x6.875 Reinforcement	0.00 - 1.75	Auto	0.0000
L76	32	PL1.25x6.875 Reinforcement	0.00 - 1.75	Auto	0.0000
L76	33	PL1.25x6.875 Reinforcement	0.00 - 1.75	Auto	0.0000
L76	63	Transition Stiffener 1x7	0.00 - 1.75	Auto	0.0000
L76	64	Transition Stiffener 1x7	0.00 - 1.75	Auto	0.0000
L76	65	Transition Stiffener 1x7	0.00 - 1.75	Auto	0.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
EPBQ-654L8H8-L2 w/ Mount Pipe	A	From Leg	4.000 0.000 -1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	14.860 15.720 16.590	6.250 7.020 7.800	0.119 0.228 0.351
EPBQ-654L8H8-L2 w/ Mount Pipe	B	From Leg	4.000 0.000 -1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	14.860 15.720 16.590	6.250 7.020 7.800	0.119 0.228 0.351
EPBQ-654L8H8-L2 w/ Mount Pipe	C	From Leg	4.000 0.000 -1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	14.860 15.720 16.590	6.250 7.020 7.800	0.119 0.228 0.351
RRUS 4478 B14	A	From Leg	4.000 0.000 -1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	1.843 2.012 2.190	1.059 1.197 1.342	0.060 0.076 0.094
RRUS 4478 B14	B	From Leg	4.000 0.000 -1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	1.843 2.012 2.190	1.059 1.197 1.342	0.060 0.076 0.094
RRUS 4478 B14	C	From Leg	4.000 0.000 -1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	1.843 2.012 2.190	1.059 1.197 1.342	0.060 0.076 0.094
RADIO 4415 B30	A	From Leg	4.000 0.000 -1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	1.643 1.803 1.971	0.639 0.750 0.867	0.043 0.055 0.069
RADIO 4415 B30	B	From Leg	4.000 0.000 -1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	1.643 1.803 1.971	0.639 0.750 0.867	0.043 0.055 0.069
RADIO 4415 B30	C	From Leg	4.000 0.000 -1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	1.643 1.803 1.971	0.639 0.750 0.867	0.043 0.055 0.069
RRUS 8843 B2/B66A	A	From Leg	4.000 0.000 -1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	1.639 1.799 1.966	1.353 1.500 1.655	0.072 0.090 0.110
RRUS 8843 B2/B66A	B	From Leg	4.000 0.000 -1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	1.639 1.799 1.966	1.353 1.500 1.655	0.072 0.090 0.110

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
RRUS 8843 B2/B66A	C	From Leg	4.000 0.000 -1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	1.639 1.799 1.966	1.353 1.500 1.655	0.072 0.090 0.110
RRUS 4449 B5/B12	A	From Leg	4.000 0.000 -1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	1.968 2.144 2.328	1.408 1.564 1.727	0.071 0.090 0.111
RRUS 4449 B5/B12	B	From Leg	4.000 0.000 -1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	1.968 2.144 2.328	1.408 1.564 1.727	0.071 0.090 0.111
RRUS 4449 B5/B12	C	From Leg	4.000 0.000 -1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	1.968 2.144 2.328	1.408 1.564 1.727	0.071 0.090 0.111
DC6-48-60-18-8F	A	From Leg	4.000 0.000 -1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	0.850 1.356 1.532	0.850 1.356 1.532	0.019 0.036 0.055
DC6-48-60-18-8F	C	From Leg	4.000 0.000 -1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	0.850 1.356 1.532	0.850 1.356 1.532	0.019 0.036 0.055
AIR 6419 B77G_CCIV3 w/ Mount Pipe	A	From Leg	4.000 0.000 1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	4.380 4.708 5.045	2.760 3.191 3.639	0.057 0.096 0.140
AIR 6419 B77G_CCIV3 w/ Mount Pipe	B	From Leg	4.000 0.000 1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	4.380 4.708 5.045	2.760 3.191 3.639	0.057 0.096 0.140
AIR 6419 B77G_CCIV3 w/ Mount Pipe	C	From Leg	4.000 0.000 1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	4.380 4.708 5.045	2.760 3.191 3.639	0.057 0.096 0.140
AIR 6449 B77D_CCVI2 w/ Mount Pipe	A	From Leg	4.000 0.000 -3.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	3.580 3.920 4.270	2.310 2.600 2.910	0.095 0.130 0.173
AIR 6449 B77D_CCVI2 w/ Mount Pipe	B	From Leg	4.000 0.000 -3.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	3.580 3.920 4.270	2.310 2.600 2.910	0.095 0.130 0.173
AIR 6449 B77D_CCVI2 w/ Mount Pipe	C	From Leg	4.000 0.000 -3.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	3.580 3.920 4.270	2.310 2.600 2.910	0.095 0.130 0.173
QD8616-7 w/ Mount Pipe	A	From Leg	4.000 0.000 -1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	16.930 17.870 18.830	9.310 10.170 11.050	0.183 0.308 0.448
QD8616-7 w/ Mount Pipe	B	From Leg	4.000 0.000 -1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	16.930 17.870 18.830	9.310 10.170 11.050	0.183 0.308 0.448
QD8616-7 w/ Mount Pipe	C	From Leg	4.000 0.000 -1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	16.930 17.870 18.830	9.310 10.170 11.050	0.183 0.308 0.448
2012 B29	A	From Leg	4.000 0.000 -1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	1.856 2.027 2.204	0.695 0.814 0.939	0.043 0.056 0.072
2012 B29	B	From Leg	4.000 0.000 -1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	1.856 2.027 2.204	0.695 0.814 0.939	0.043 0.056 0.072
2012 B29	C	From Leg	4.000 0.000 -1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	1.856 2.027 2.204	0.695 0.814 0.939	0.043 0.056 0.072
DC9-48-60-24-8C-EV	B	From Leg	4.000 0.000 -1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	2.737 2.963 3.196	4.785 5.065 5.352	0.026 0.063 0.104

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
(2) 10' x 2" Mount Pipe	A	From Leg	4.000 0.000 -1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	2.375 3.403 4.448	0.037 0.054 0.079
(2) 10' x 2" Mount Pipe	B	From Leg	4.000 0.000 -1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	2.375 3.403 4.448	0.037 0.054 0.079
(2) 10' x 2" Mount Pipe	C	From Leg	4.000 0.000 -1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	2.375 3.403 4.448	0.037 0.054 0.079
10' x 2" Mount Pipe	A	From Leg	4.000 0.000 -1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	2.375 3.403 4.448	2.375 3.403 4.448	0.037 0.054 0.079
10' x 2" Mount Pipe	B	From Leg	4.000 0.000 -1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	2.375 3.403 4.448	2.375 3.403 4.448	0.037 0.054 0.079
10' x 2" Mount Pipe	C	From Leg	4.000 0.000 -1.000	0.000	144.000	No Ice 1/2" Ice 1" Ice	2.375 3.403 4.448	2.375 3.403 4.448	0.037 0.054 0.079
F3P-12W	C	None		0.000	144.000	No Ice 1/2" Ice 1" Ice	25.520 31.740 40.100	25.520 31.740 40.100	1.999 2.599 3.414
Miscellaneous [NA 507-1]	C	None		0.000	144.000	No Ice 1/2" Ice 1" Ice	4.560 6.390 8.180	4.560 6.390 8.180	0.245 0.311 0.402
*									
(2) APXVSPP18-C-A20 w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	130.000	No Ice 1/2" Ice 1" Ice	4.600 5.050 5.500	4.010 4.450 4.890	0.095 0.160 0.235
APXVSPP18-C-A20 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	130.000	No Ice 1/2" Ice 1" Ice	4.600 5.050 5.500	4.010 4.450 4.890	0.095 0.160 0.235
APXVSPP18-C-A20 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	130.000	No Ice 1/2" Ice 1" Ice	4.600 5.050 5.500	4.010 4.450 4.890	0.095 0.160 0.235
AAHC w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	130.000	No Ice 1/2" Ice 1" Ice	4.120 4.480 4.870	2.440 2.750 3.060	0.115 0.153 0.197
(2) AAHC w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	130.000	No Ice 1/2" Ice 1" Ice	4.120 4.480 4.870	2.440 2.750 3.060	0.115 0.153 0.197
(2) IBC1900HB-2	A	From Leg	4.000 0.000 0.000	0.000	130.000	No Ice 1/2" Ice 1" Ice	1.125 1.270 1.423	0.713 0.837 0.968	0.040 0.049 0.060
IBC1900HB-2	B	From Leg	4.000 0.000 0.000	0.000	130.000	No Ice 1/2" Ice 1" Ice	1.125 1.270 1.423	0.713 0.837 0.968	0.040 0.049 0.060
IBC1900HB-2	C	From Leg	4.000 0.000 0.000	0.000	130.000	No Ice 1/2" Ice 1" Ice	1.125 1.270 1.423	0.713 0.837 0.968	0.040 0.049 0.060
800 EXTERNAL NOTCH FILTER	A	From Leg	4.000 0.000 0.000	0.000	130.000	No Ice 1/2" Ice 1" Ice	0.660 0.763 0.873	0.321 0.398 0.483	0.011 0.017 0.024
800 EXTERNAL NOTCH FILTER	B	From Leg	4.000 0.000 0.000	0.000	130.000	No Ice 1/2" Ice 1" Ice	0.660 0.763 0.873	0.321 0.398 0.483	0.011 0.017 0.024
800 EXTERNAL NOTCH FILTER	C	From Leg	4.000 0.000	0.000	130.000	No Ice 1/2" Ice	0.660 0.763	0.321 0.398	0.011 0.017

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.000			1" Ice	0.873	0.483	0.024
(2) 1900MHZ RRH (65MHZ)	A	From Leg	4.000	0.000	130.000	No Ice	2.313	2.375	0.060
			0.000			1/2" Ice	2.517	2.581	0.084
			0.000			1" Ice	2.728	2.794	0.111
(2) 1900MHZ RRH (65MHZ)	B	From Leg	4.000	0.000	130.000	No Ice	2.313	2.375	0.060
			0.000			1/2" Ice	2.517	2.581	0.084
			0.000			1" Ice	2.728	2.794	0.111
(2) 1900MHZ RRH (65MHZ)	C	From Leg	4.000	0.000	130.000	No Ice	2.313	2.375	0.060
			0.000			1/2" Ice	2.517	2.581	0.084
			0.000			1" Ice	2.728	2.794	0.111
800MHZ RRH	A	From Leg	4.000	0.000	130.000	No Ice	2.134	1.773	0.053
			0.000			1/2" Ice	2.320	1.946	0.074
			0.000			1" Ice	2.512	2.127	0.098
800MHZ RRH	B	From Leg	4.000	0.000	130.000	No Ice	2.134	1.773	0.053
			0.000			1/2" Ice	2.320	1.946	0.074
			0.000			1" Ice	2.512	2.127	0.098
800MHZ RRH	C	From Leg	4.000	0.000	130.000	No Ice	2.134	1.773	0.053
			0.000			1/2" Ice	2.320	1.946	0.074
			0.000			1" Ice	2.512	2.127	0.098
(2) PD2DE-700/2700	A	From Leg	4.000	0.000	130.000	No Ice	0.114	0.114	0.001
			0.000			1/2" Ice	0.179	0.179	0.002
			0.000			1" Ice	0.250	0.250	0.004
6' x 2" Mount Pipe	A	From Leg	4.000	0.000	130.000	No Ice	1.425	1.425	0.022
			0.000			1/2" Ice	1.925	1.925	0.033
			0.000			1" Ice	2.294	2.294	0.048
(2) 6' x 2" Mount Pipe	A	From Leg	4.000	0.000	130.000	No Ice	0.000	1.425	0.022
			0.000			1/2" Ice	0.000	1.925	0.033
			0.000			1" Ice	0.000	2.294	0.048
(3) 6' x 2" Mount Pipe	B	From Leg	4.000	0.000	130.000	No Ice	1.425	1.425	0.022
			0.000			1/2" Ice	1.925	1.925	0.033
			0.000			1" Ice	2.294	2.294	0.048
(2) 6' x 2" Mount Pipe	C	From Leg	4.000	0.000	130.000	No Ice	1.425	1.425	0.022
			0.000			1/2" Ice	1.925	1.925	0.033
			0.000			1" Ice	2.294	2.294	0.048
3' x 2" Pipe Mount	A	From Leg	4.000	0.000	130.000	No Ice	0.000	0.583	0.011
			0.000			1/2" Ice	0.000	0.770	0.017
			-1.000			1" Ice	0.000	0.967	0.024
3' x 2" Pipe Mount	B	From Leg	4.000	0.000	130.000	No Ice	0.000	0.583	0.011
			0.000			1/2" Ice	0.000	0.770	0.017
			-1.000			1" Ice	0.000	0.967	0.024
3' x 2" Pipe Mount	C	From Leg	4.000	0.000	130.000	No Ice	0.000	0.583	0.011
			0.000			1/2" Ice	0.000	0.770	0.017
			-1.000			1" Ice	0.000	0.967	0.024
(2) 5' x 2" Pipe Mount	A	From Leg	4.000	0.000	130.000	No Ice	1.188	1.188	0.018
			0.000			1/2" Ice	1.496	1.496	0.027
			0.000			1" Ice	1.807	1.807	0.040
5' x 2" Pipe Mount	B	From Leg	4.000	0.000	130.000	No Ice	1.188	1.188	0.018
			0.000			1/2" Ice	1.496	1.496	0.027
			0.000			1" Ice	1.807	1.807	0.040
5' x 2" Pipe Mount	C	From Leg	4.000	0.000	130.000	No Ice	1.188	1.188	0.018
			0.000			1/2" Ice	1.496	1.496	0.027
			0.000			1" Ice	1.807	1.807	0.040
Pipe Mount [PM 601-3]	C	None		0.000	130.000	No Ice	3.170	3.170	0.195
						1/2" Ice	3.790	3.790	0.232
						1" Ice	4.420	4.420	0.279
Platform Mount [LP 602-1]	C	None		0.000	130.000	No Ice	31.070	31.070	1.343
						1/2" Ice	34.820	34.820	1.967

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						1" Ice	38.480	38.480	2.669
*									
MX08FRO665-21 w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	120.000	No Ice 1/2" Ice 1" Ice	8.010 8.520 9.040	4.230 4.690 5.160	0.108 0.194 0.292
MX08FRO665-21 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	120.000	No Ice 1/2" Ice 1" Ice	8.010 8.520 9.040	4.230 4.690 5.160	0.108 0.194 0.292
MX08FRO665-21 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	120.000	No Ice 1/2" Ice 1" Ice	8.010 8.520 9.040	4.230 4.690 5.160	0.108 0.194 0.292
TA08025-B604	A	From Leg	4.000 0.000 0.000	0.000	120.000	No Ice 1/2" Ice 1" Ice	1.964 2.138 2.320	0.981 1.112 1.250	0.064 0.081 0.100
TA08025-B604	B	From Leg	4.000 0.000 0.000	0.000	120.000	No Ice 1/2" Ice 1" Ice	1.964 2.138 2.320	0.981 1.112 1.250	0.064 0.081 0.100
TA08025-B604	C	From Leg	4.000 0.000 0.000	0.000	120.000	No Ice 1/2" Ice 1" Ice	1.964 2.138 2.320	0.981 1.112 1.250	0.064 0.081 0.100
TA08025-B605	A	From Leg	4.000 0.000 0.000	0.000	120.000	No Ice 1/2" Ice 1" Ice	1.964 2.138 2.320	1.129 1.267 1.411	0.075 0.093 0.114
TA08025-B605	B	From Leg	4.000 0.000 0.000	0.000	120.000	No Ice 1/2" Ice 1" Ice	1.964 2.138 2.320	1.129 1.267 1.411	0.075 0.093 0.114
TA08025-B605	C	From Leg	4.000 0.000 0.000	0.000	120.000	No Ice 1/2" Ice 1" Ice	1.964 2.138 2.320	1.129 1.267 1.411	0.075 0.093 0.114
RDIDC-9181-PF-48	A	From Leg	4.000 0.000 0.000	0.000	120.000	No Ice 1/2" Ice 1" Ice	2.012 2.189 2.373	1.168 1.311 1.461	0.022 0.040 0.060
(2) 8' x 2" Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	120.000	No Ice 1/2" Ice 1" Ice	1.900 2.728 3.401	1.900 2.728 3.401	0.029 0.044 0.063
(2) 8' x 2" Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	120.000	No Ice 1/2" Ice 1" Ice	1.900 2.728 3.401	1.900 2.728 3.401	0.029 0.044 0.063
(2) 8' x 2" Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	120.000	No Ice 1/2" Ice 1" Ice	1.900 2.728 3.401	1.900 2.728 3.401	0.029 0.044 0.063
Commscope MC-PK8-DSH	C	None		0.000	120.000	No Ice 1/2" Ice 1" Ice	34.240 62.950 91.660	34.240 62.950 91.660	1.749 2.099 2.450
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SBNHH-1D65B w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	110.000	No Ice 1/2" Ice 1" Ice	4.090 4.490 4.890	3.300 3.680 4.070	0.066 0.130 0.204
SBNHH-1D65B w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	110.000	No Ice 1/2" Ice 1" Ice	4.090 4.490 4.890	3.300 3.680 4.070	0.066 0.130 0.204
SBNHH-1D65B w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	110.000	No Ice 1/2" Ice 1" Ice	4.090 4.490 4.890	3.300 3.680 4.070	0.066 0.130 0.204
SBNHH-1D65B	A	From Leg	4.000 0.000 0.000	0.000	110.000	No Ice 1/2" Ice 1" Ice	4.160 4.570 4.990	2.490 2.880 3.270	0.041 0.091 0.148

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
SBNHH-1D65B	B	From Leg	4.000 0.000 0.000	0.000	110.000	No Ice 1/2" Ice 1" Ice	4.160 4.570 4.990	2.490 2.880 3.270	0.041 0.091 0.148
SBNHH-1D65B	C	From Leg	4.000 0.000 0.000	0.000	110.000	No Ice 1/2" Ice 1" Ice	4.160 4.570 4.990	2.490 2.880 3.270	0.041 0.091 0.148
BXA-80063/4CF w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	110.000	No Ice 1/2" Ice 1" Ice	4.830 5.350 5.880	3.650 4.140 4.640	0.028 0.065 0.109
BXA-80063/4CF w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	110.000	No Ice 1/2" Ice 1" Ice	4.830 5.350 5.880	3.650 4.140 4.640	0.028 0.065 0.109
BXA-80063/4CF w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	110.000	No Ice 1/2" Ice 1" Ice	4.830 5.350 5.880	3.650 4.140 4.640	0.028 0.065 0.109
BULLET III	C	From Leg	4.000 0.000 3.000	0.000	110.000	No Ice 1/2" Ice 1" Ice	0.066 0.101 0.144	0.066 0.101 0.144	0.000 0.002 0.003
RFV01U-D1A	A	From Leg	4.000 0.000 0.000	0.000	110.000	No Ice 1/2" Ice 1" Ice	1.875 2.045 2.223	1.250 1.393 1.543	0.084 0.103 0.124
RFV01U-D1A	B	From Leg	4.000 0.000 0.000	0.000	110.000	No Ice 1/2" Ice 1" Ice	1.875 2.045 2.223	1.250 1.393 1.543	0.084 0.103 0.124
RFV01U-D1A	C	From Leg	4.000 0.000 0.000	0.000	110.000	No Ice 1/2" Ice 1" Ice	1.875 2.045 2.223	1.250 1.393 1.543	0.084 0.103 0.124
RFV01U-D2A	A	From Leg	4.000 0.000 0.000	0.000	110.000	No Ice 1/2" Ice 1" Ice	1.875 2.045 2.223	1.013 1.145 1.284	0.070 0.087 0.106
RFV01U-D2A	B	From Leg	4.000 0.000 0.000	0.000	110.000	No Ice 1/2" Ice 1" Ice	1.875 2.045 2.223	1.013 1.145 1.284	0.070 0.087 0.106
RFV01U-D2A	C	From Leg	4.000 0.000 0.000	0.000	110.000	No Ice 1/2" Ice 1" Ice	1.875 2.045 2.223	1.013 1.145 1.284	0.070 0.087 0.106
RVZDC-6627-PF-48	C	From Leg	4.000 0.000 0.000	0.000	110.000	No Ice 1/2" Ice 1" Ice	3.792 4.044 4.303	2.514 2.727 2.947	0.032 0.063 0.099
MT6407-77A w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	110.000	No Ice 1/2" Ice 1" Ice	4.907 5.256 5.615	2.682 3.145 3.624	0.096 0.136 0.180
MT6407-77A w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	110.000	No Ice 1/2" Ice 1" Ice	4.907 5.256 5.615	2.682 3.145 3.624	0.096 0.136 0.180
MT6407-77A w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	110.000	No Ice 1/2" Ice 1" Ice	4.907 5.256 5.615	2.682 3.145 3.624	0.096 0.136 0.180
(3) 3' x 2" Pipe Mount	A	From Leg	4.000 0.000 0.000	0.000	110.000	No Ice 1/2" Ice 1" Ice	0.583 0.770 0.967	0.583 0.770 0.967	0.011 0.017 0.024
(3) 3' x 2" Pipe Mount	B	From Leg	4.000 0.000 0.000	0.000	110.000	No Ice 1/2" Ice 1" Ice	0.583 0.770 0.967	0.583 0.770 0.967	0.011 0.017 0.024
(2) 3' x 2" Pipe Mount	C	From Leg	4.000 0.000 0.000	0.000	110.000	No Ice 1/2" Ice 1" Ice	0.583 0.770 0.967	0.583 0.770 0.967	0.011 0.017 0.024

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
6' x 2" Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	110.000	No Ice 1/2" Ice 1" Ice	1.425 1.925 2.294	1.425 1.925 2.294	0.022 0.033 0.048
6' x 2" Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	110.000	No Ice 1/2" Ice 1" Ice	1.425 1.925 2.294	1.425 1.925 2.294	0.022 0.033 0.048
(2) 6' x 2" Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	110.000	No Ice 1/2" Ice 1" Ice	1.425 1.925 2.294	1.425 1.925 2.294	0.022 0.033 0.048
Side Arm Mount [SO 102-3]	C	None		0.000	110.000	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.000 0.000 0.000	0.075 0.105 0.135
Mount Reinforcement Specifications	C	None		0.000	110.000	No Ice 1/2" Ice 1" Ice	28.630 37.310 45.800	28.630 37.310 45.800	0.280 0.670 0.940
Platform Mount [LP 713-1]	C	None		0.000	110.000	No Ice 1/2" Ice 1" Ice	32.890 35.760 38.760	32.890 35.760 38.760	1.510 2.228 3.026
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AIR -32 B2A/B66AA w/ Mount Pipe	A	From Leg	4.000 0.000 1.000	0.000	100.000	No Ice 1/2" Ice 1" Ice	3.760 4.120 4.480	3.150 3.490 3.840	0.194 0.252 0.320
AIR -32 B2A/B66AA w/ Mount Pipe	B	From Leg	4.000 0.000 1.000	0.000	100.000	No Ice 1/2" Ice 1" Ice	3.760 4.120 4.480	3.150 3.490 3.840	0.194 0.252 0.320
AIR -32 B2A/B66AA w/ Mount Pipe	C	From Leg	4.000 0.000 1.000	0.000	100.000	No Ice 1/2" Ice 1" Ice	3.760 4.120 4.480	3.150 3.490 3.840	0.194 0.252 0.320
APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Leg	4.000 0.000 1.000	0.000	100.000	No Ice 1/2" Ice 1" Ice	14.690 15.460 16.230	6.870 7.550 8.250	0.186 0.315 0.458
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Leg	4.000 0.000 1.000	0.000	100.000	No Ice 1/2" Ice 1" Ice	14.690 15.460 16.230	6.870 7.550 8.250	0.186 0.315 0.458
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Leg	4.000 0.000 1.000	0.000	100.000	No Ice 1/2" Ice 1" Ice	14.690 15.460 16.230	6.870 7.550 8.250	0.186 0.315 0.458
AIR 6419 B41_TMO w/ Mount Pipe	A	From Leg	4.000 0.000 1.000	0.000	100.000	No Ice 1/2" Ice 1" Ice	6.580 7.060 7.570	3.500 3.900 4.320	0.111 0.162 0.220
AIR 6419 B41_TMO w/ Mount Pipe	B	From Leg	4.000 0.000 1.000	0.000	100.000	No Ice 1/2" Ice 1" Ice	6.580 7.060 7.570	3.500 3.900 4.320	0.111 0.162 0.220
AIR 6419 B41_TMO w/ Mount Pipe	C	From Leg	4.000 0.000 1.000	0.000	100.000	No Ice 1/2" Ice 1" Ice	6.580 7.060 7.570	3.500 3.900 4.320	0.111 0.162 0.220
RADIO 4449 B71 B85A_T-MOBILE	A	From Leg	4.000 0.000 1.000	0.000	100.000	No Ice 1/2" Ice 1" Ice	1.970 2.147 2.331	1.587 1.749 1.918	0.073 0.093 0.116
RADIO 4449 B71 B85A_T-MOBILE	B	From Leg	4.000 0.000 1.000	0.000	100.000	No Ice 1/2" Ice 1" Ice	1.970 2.147 2.331	1.587 1.749 1.918	0.073 0.093 0.116
RADIO 4449 B71 B85A_T-MOBILE	C	From Leg	4.000 0.000 1.000	0.000	100.000	No Ice 1/2" Ice 1" Ice	1.970 2.147 2.331	1.587 1.749 1.918	0.073 0.093 0.116
RADIO 4460 B2/B25 B66_TMO	A	From Leg	4.000 0.000	0.000	100.000	No Ice 1/2" Ice	2.139 2.321	1.686 1.850	0.109 0.131

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			1.000			1" Ice	2.511	2.022	0.156
RADIO 4460 B2/B25 B66_TMO	B	From Leg	4.000 0.000 1.000	0.000	100.000	No Ice 1/2" Ice 1" Ice	2.139 2.321 2.511	1.686 1.850 2.022	0.109 0.131 0.156
RADIO 4460 B2/B25 B66_TMO	C	From Leg	4.000 0.000 1.000	0.000	100.000	No Ice 1/2" Ice 1" Ice	2.139 2.321 2.511	1.686 1.850 2.022	0.109 0.131 0.156
Platform Mount [LP 303-1_HR-1]	C	None		0.000	100.000	No Ice 1/2" Ice 1" Ice	17.090 21.470 25.720	17.090 21.470 25.720	1.495 1.881 2.346
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KS24019-L112A	C	From Leg	4.000 0.000 1.000	0.000	50.000	No Ice 1/2" Ice 1" Ice	0.141 0.198 0.262	0.141 0.198 0.262	0.005 0.007 0.009
Side Arm Mount [SO 701-1]	C	From Leg	2.000 0.000 0.000	0.000	50.000	No Ice 1/2" Ice 1" Ice	0.850 1.140 1.430	1.670 2.340 3.010	0.065 0.079 0.093
*									

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral ft / Vert ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft		Aperture Area ft^2	Weight K
VHLP2-23	A	Paraboloid w/Shroud (HP)	From Leg	4.000 0.000 3.000	0.000		130.000	2.175	No Ice 1/2" Ice 1" Ice	3.715 4.006 4.296	0.031 0.052 0.072
VHLP2-23	B	Paraboloid w/Shroud (HP)	From Leg	4.000 0.000 3.000	-50.000		130.000	2.175	No Ice 1/2" Ice 1" Ice	3.715 4.006 4.296	0.031 0.052 0.072
VHLP2-18	C	Paraboloid w/Shroud (HP)	From Leg	4.000 0.000 3.000	-60.000		130.000	2.175	No Ice 1/2" Ice 1" Ice	3.715 4.006 4.296	0.031 0.052 0.072
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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

Comb. No.	Description
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
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	144.25 - 139.25	Pole	Max Tension	21	0.000	-0.000	0.000
			Max. Compression	26	-10.802	-0.291	-0.053
			Max. Mx	8	-5.162	-26.842	0.173
			Max. My	14	-5.140	0.150	-27.040
			Max. Vy	8	6.571	-26.842	0.173
			Max. Vx	2	-6.642	-0.108	27.038
			Max. Torque	17			0.613

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L2	139.25 - 134.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-11.224	-0.380	0.007
			Max. Mx	8	-5.456	-56.730	0.336
			Max. My	2	-5.424	-0.293	57.297
			Max. Vy	8	6.709	-56.730	0.336
			Max. Vx	2	-6.804	-0.293	57.297
			Max. Torque	17			0.613
L3	134.75 - 134.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-11.273	-0.390	0.014
			Max. Mx	8	-5.493	-60.089	0.355
			Max. My	2	-5.461	-0.315	60.703
			Max. Vy	8	6.722	-60.089	0.355
			Max. Vx	2	-6.820	-0.315	60.703
			Max. Torque	17			0.613
L4	134.25 - 129.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-18.809	-2.440	1.904
			Max. Mx	8	-9.153	-99.412	1.424
			Max. My	2	-9.099	-1.780	100.654
			Max. Vy	20	-11.106	96.967	0.355
			Max. Vx	2	-11.262	-1.780	100.654
			Max. Torque	15			1.214
L5	129.25 - 124.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-19.255	-2.580	2.001
			Max. Mx	8	-9.500	-155.106	1.537
			Max. My	2	-9.446	-2.008	157.350
			Max. Vy	20	-11.250	152.788	0.247
			Max. Vx	2	-11.432	-2.008	157.350
			Max. Torque	15			1.214
L6	124.25 - 123.416	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-19.342	-2.602	2.015
			Max. Mx	8	-9.564	-164.463	1.555
			Max. My	2	-9.511	-2.045	166.886
			Max. Vy	20	-11.275	162.168	0.229
			Max. Vx	2	-11.456	-2.045	166.886
			Max. Torque	15			1.212
L7	123.416 - 123.166	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-19.382	-2.609	2.020
			Max. Mx	8	-9.603	-167.273	1.561
			Max. My	2	-9.550	-2.057	169.749
			Max. Vy	20	-11.279	164.985	0.224
			Max. Vx	2	-11.460	-2.057	169.749
			Max. Torque	15			1.212
L8	123.166 - 118.166	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-25.075	-2.747	2.408
			Max. Mx	8	-13.045	-229.294	1.774
			Max. My	2	-12.985	-2.283	233.004
			Max. Vy	20	-14.338	227.132	0.218
			Max. Vx	2	-14.545	-2.283	233.004
			Max. Torque	15			1.212
L9	118.166 - 113.166	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-25.920	-2.903	2.511
			Max. Mx	8	-13.660	-301.413	1.891
			Max. My	2	-13.603	-2.520	306.304

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vy	20	-14.585	299.364	0.111
			Max. Vx	2	-14.787	-2.520	306.304
			Max. Torque	15			1.211
L10	113.166 - 109.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-34.251	-2.473	2.280
			Max. Mx	8	-17.501	-357.117	1.887
			Max. My	2	-17.441	-2.532	362.926
			Max. Vy	20	-19.268	355.576	-0.073
			Max. Vx	2	-19.446	-2.532	362.926
			Max. Torque	15			1.210
L11	109.5 - 109.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-34.305	-2.482	2.287
			Max. Mx	8	-17.558	-361.925	1.897
			Max. My	2	-17.499	-2.549	367.786
			Max. Vy	20	-19.269	360.389	-0.082
			Max. Vx	2	-19.445	-2.549	367.786
			Max. Torque	15			0.824
L12	109.25 - 104.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-35.320	-2.614	2.399
			Max. Mx	8	-18.304	-449.048	2.075
			Max. My	2	-18.249	-2.837	455.793
			Max. Vy	20	-19.529	447.612	-0.250
			Max. Vx	2	-19.680	-2.837	455.793
			Max. Torque	15			0.824
L13	104.75 - 104.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-35.393	-2.622	2.405
			Max. Mx	8	-18.370	-453.922	2.085
			Max. My	2	-18.317	-2.853	460.712
			Max. Vy	20	-19.539	452.492	-0.259
			Max. Vx	2	-19.686	-2.853	460.712
			Max. Torque	15			0.823
L14	104.5 - 102.416	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-36.001	-2.682	2.446
			Max. Mx	8	-18.803	-494.764	2.167
			Max. My	2	-18.754	-2.986	501.891
			Max. Vy	20	-19.730	493.380	-0.337
			Max. Vx	2	-19.839	-2.986	501.891
			Max. Torque	15			0.823
L15	102.416 - 102.166	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-36.070	-2.690	2.452
			Max. Mx	8	-18.862	-499.689	2.177
			Max. My	2	-18.814	-3.002	506.850
			Max. Vy	20	-19.743	498.311	-0.346
			Max. Vx	2	-19.847	-3.002	506.850
			Max. Torque	15			0.823
L16	102.166 - 98.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-43.734	-2.794	2.499
			Max. Mx	8	-23.502	-572.854	2.311
			Max. My	2	-23.450	-3.222	580.487
			Max. Vy	20	-22.845	571.549	-0.475
			Max. Vx	2	-22.955	-3.222	580.487
			Max. Torque	15			0.823
L17	98.75 - 98.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-43.820	-2.804	2.502
			Max. Mx	8	-23.585	-578.554	2.322
			Max. My	2	-23.533	-3.239	586.224

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vy	20	-22.845	577.256	-0.485
			Max. Vx	2	-22.961	-3.239	586.224
			Max. Torque	15			0.823
L18	98.5 - 97.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-44.166	-2.836	2.510
			Max. Mx	8	-23.839	-601.398	2.360
			Max. My	2	-23.785	-3.303	609.227
			Max. Vy	20	-22.918	600.121	-0.524
			Max. Vx	2	-23.058	-3.303	609.227
			Max. Torque	15			0.824
L19	97.5 - 97.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-44.250	-2.845	2.512
			Max. Mx	8	-23.912	-607.119	2.370
			Max. My	2	-23.857	-3.320	614.992
			Max. Vy	20	-22.926	605.847	-0.534
			Max. Vx	2	-23.072	-3.320	614.992
			Max. Torque	15			0.824
L20	97.25 - 92	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-44.811	-2.908	2.527
			Max. Mx	8	-24.324	-646.075	2.436
			Max. My	2	-24.266	-3.430	654.284
			Max. Vy	20	-23.047	644.839	-0.599
			Max. Vx	2	-23.234	-3.430	654.284
			Max. Torque	15			0.828
L21	92 - 90.552	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-47.380	-3.101	2.572
			Max. Mx	8	-26.374	-762.196	2.632
			Max. My	2	-26.305	-3.757	771.817
			Max. Vy	20	-23.469	761.066	-0.794
			Max. Vx	2	-23.784	-3.757	771.817
			Max. Torque	15			0.838
L22	90.552 - 89.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-47.840	-3.146	2.582
			Max. Mx	8	-26.737	-792.733	2.682
			Max. My	2	-26.668	-3.842	802.809
			Max. Vy	20	-23.542	791.630	-0.845
			Max. Vx	2	-23.865	-3.842	802.809
			Max. Torque	15			0.838
L23	89.25 - 89	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-47.940	-3.156	2.585
			Max. Mx	8	-26.832	-798.609	2.693
			Max. My	2	-26.763	-3.859	808.773
			Max. Vy	20	-23.541	797.510	-0.854
			Max. Vx	2	-23.866	-3.859	808.773
			Max. Torque	15			0.838
L24	89 - 88.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-48.241	-3.180	2.590
			Max. Mx	8	-27.061	-816.259	2.722
			Max. My	2	-26.992	-3.908	826.692
			Max. Vy	20	-23.596	815.175	-0.884
			Max. Vx	2	-23.928	-3.908	826.692
			Max. Torque	15			0.838
L25	88.25 - 88	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-48.329	-3.189	2.592
			Max. Mx	8	-27.135	-822.151	2.732
			Max. My	2	-27.066	-3.924	832.674
			Max. Vy	20	-23.605	821.072	-0.893
			Max. Vx	2	-23.938	-3.924	832.674
			Max. Torque	15			0.838
L26	88 - 87.833	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-48.388	-3.196	2.594

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Mx	8	-27.181	-826.088	2.738
			Max. My	2	-27.113	-3.936	836.672
			Max. Vy	20	-23.615	825.012	-0.900
			Max. Vx	2	-23.949	-3.936	836.672
			Max. Torque	15			0.838
L27	87.833 - 87.583	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-48.470	-3.203	2.595
			Max. Mx	8	-27.242	-831.985	2.748
			Max. My	2	-27.173	-3.952	842.660
			Max. Vy	20	-23.627	830.914	-0.910
			Max. Vx	2	-23.963	-3.952	842.660
			Max. Torque	15			0.838
L28	87.583 - 82.583	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-50.030	-3.369	2.645
			Max. Mx	8	-28.490	-950.446	2.941
			Max. My	2	-28.421	-4.277	963.049
			Max. Vy	20	-23.839	949.469	-1.104
			Max. Vx	2	-24.215	-4.277	963.049
			Max. Torque	15			0.838
L29	82.583 - 77.583	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-51.599	-3.536	2.704
			Max. Mx	8	-29.777	-1069.826	3.133
			Max. My	2	-29.711	-4.600	1084.571
			Max. Vy	20	-24.011	1068.940	-1.297
			Max. Vx	2	-24.433	-4.600	1084.571
			Max. Torque	15			0.837
L30	77.583 - 77	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-51.790	-3.555	2.711
			Max. Mx	8	-29.938	-1083.801	3.156
			Max. My	2	-29.871	-4.638	1098.812
			Max. Vy	20	-24.021	1082.926	-1.319
			Max. Vx	2	-24.452	-4.638	1098.812
			Max. Torque	15			0.836
L31	77 - 76.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-51.885	-3.565	2.715
			Max. Mx	8	-30.021	-1089.798	3.165
			Max. My	2	-29.954	-4.655	1104.924
			Max. Vy	20	-24.025	1088.927	-1.329
			Max. Vx	2	-24.459	-4.655	1104.924
			Max. Torque	15			0.836
L32	76.75 - 76.333	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-52.043	-3.578	2.719
			Max. Mx	8	-30.145	-1099.807	3.181
			Max. My	2	-30.078	-4.681	1115.128
			Max. Vy	20	-24.047	1098.943	-1.345
			Max. Vx	2	-24.487	-4.681	1115.128
			Max. Torque	15			0.836
L33	76.333 - 76.083	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-52.135	-3.587	2.723
			Max. Mx	8	-30.220	-1105.811	3.191
			Max. My	2	-30.153	-4.698	1121.251
			Max. Vy	20	-24.056	1104.952	-1.354
			Max. Vx	2	-24.500	-4.698	1121.251
			Max. Torque	15			0.836
L34	76.083 - 74.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-52.807	-3.653	2.755
			Max. Mx	8	-30.730	-1149.923	3.260

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. My	2	-30.663	-4.815	1166.255
			Max. Vy	20	-24.168	1149.097	-1.425
			Max. Vx	2	-24.638	-4.815	1166.255
			Max. Torque	15			0.836
L35	74.25 - 74	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-52.902	-3.664	2.762
			Max. Mx	8	-30.829	-1155.952	3.270
			Max. My	2	-30.762	-4.832	1172.409
			Max. Vy	20	-24.152	1155.130	-1.434
			Max. Vx	2	-24.626	-4.832	1172.409
			Max. Torque	15			0.836
L36	74 - 73.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-52.998	-3.674	2.768
			Max. Mx	8	-30.905	-1161.983	3.279
			Max. My	2	-30.838	-4.848	1178.567
			Max. Vy	20	-24.164	1161.166	-1.444
			Max. Vx	2	-24.641	-4.848	1178.567
			Max. Torque	15			0.836
L37	73.75 - 73.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-53.096	-3.684	2.774
			Max. Mx	8	-30.984	-1168.018	3.289
			Max. My	2	-30.917	-4.864	1184.729
			Max. Vy	20	-24.176	1167.205	-1.453
			Max. Vx	2	-24.657	-4.864	1184.729
			Max. Torque	15			0.836
L38	73.5 - 68.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-55.060	-3.883	2.891
			Max. Mx	8	-32.545	-1289.340	3.478
			Max. My	2	-32.478	-5.185	1308.771
			Max. Vy	20	-24.430	1288.614	-1.644
			Max. Vx	2	-24.978	-5.185	1308.771
			Max. Torque	15			0.835
L39	68.5 - 63.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-57.042	-4.085	3.010
			Max. Mx	8	-34.137	-1411.841	3.667
			Max. My	2	-34.071	-5.505	1434.316
			Max. Vy	20	-24.661	1411.199	-1.834
			Max. Vx	2	-25.271	-5.505	1434.316
			Max. Torque	15			0.835
L40	63.5 - 60.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-58.269	-4.207	3.081
			Max. Mx	8	-35.106	-1485.887	3.780
			Max. My	2	-35.041	-5.697	1510.333
			Max. Vy	20	-24.794	1485.294	-1.948
			Max. Vx	2	-25.439	-5.697	1510.333
			Max. Torque	15			0.834
L41	60.5 - 60.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-58.373	-4.218	3.088
			Max. Mx	8	-35.198	-1492.075	3.789
			Max. My	2	-35.134	-5.713	1516.690
			Max. Vy	20	-24.792	1491.487	-1.957
			Max. Vx	2	-25.439	-5.713	1516.690
			Max. Torque	15			0.834
L42	60.25 - 59.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-58.686	-4.248	3.105
			Max. Mx	8	-35.435	-1510.657	3.817
			Max. My	2	-35.371	-5.761	1535.783
			Max. Vy	20	-24.833	1510.081	-1.985
			Max. Vx	2	-25.489	-5.761	1535.783
			Max. Torque	15			0.834
L43	59.5 - 59.25	Pole	Max Tension	1	0.000	0.000	0.000

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Compression	26	-58.796	-4.259	3.112
			Max. Mx	8	-35.528	-1516.857	3.827
			Max. My	2	-35.464	-5.777	1542.154
			Max. Vy	20	-24.836	1516.284	-1.995
			Max. Vx	2	-25.495	-5.777	1542.154
			Max. Torque	15			0.834
L44	59.25 - 54.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-60.914	-4.461	3.229
			Max. Mx	8	-37.225	-1641.433	4.013
			Max. My	2	-37.165	-6.095	1670.223
			Max. Vy	20	-25.072	1640.939	-2.182
			Max. Vx	2	-25.752	-6.095	1670.223
			Max. Torque	15			0.834
L45	54.25 - 45.802	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-62.724	-4.637	3.330
			Max. Mx	8	-38.693	-1748.174	4.171
			Max. My	2	-38.637	-6.366	1779.999
			Max. Vy	20	-25.251	1747.745	-2.341
			Max. Vx	2	-25.941	-6.366	1779.999
			Max. Torque	15			0.834
L46	45.802 - 44.802	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-66.493	-4.516	3.255
			Max. Mx	20	-41.815	1880.272	-2.620
			Max. My	2	-41.763	-6.405	1915.899
			Max. Vy	20	-25.639	1880.272	-2.620
			Max. Vx	2	-26.357	-6.405	1915.899
			Max. Torque	15			0.676
L47	44.802 - 43.583	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-67.029	-4.560	3.269
			Max. Mx	20	-42.249	1911.515	-2.653
			Max. My	2	-42.198	-6.471	1948.039
			Max. Vy	20	-25.690	1911.515	-2.653
			Max. Vx	2	-26.416	-6.471	1948.039
			Max. Torque	15			0.676
L48	43.583 - 43.333	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-67.144	-4.570	3.273
			Max. Mx	20	-42.356	1917.929	-2.660
			Max. My	2	-42.307	-6.484	1954.639
			Max. Vy	20	-25.680	1917.929	-2.660
			Max. Vx	2	-26.407	-6.484	1954.639
			Max. Torque	15			0.676
L49	43.333 - 43.166	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-67.221	-4.577	3.275
			Max. Mx	20	-42.420	1922.215	-2.664
			Max. My	2	-42.371	-6.493	1959.050
			Max. Vy	20	-25.687	1922.215	-2.664
			Max. Vx	2	-26.415	-6.493	1959.050
			Max. Torque	15			0.676
L50	43.166 - 42.916	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-67.340	-4.584	3.276
			Max. Mx	20	-42.518	1928.634	-2.671
			Max. My	2	-42.469	-6.506	1965.654
			Max. Vy	20	-25.696	1928.634	-2.671
			Max. Vx	2	-26.427	-6.506	1965.654
			Max. Torque	15			0.676
L51	42.916 - 39	Pole	Max Tension	1	0.000	0.000	0.000

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Compression	26	-69.215	-4.706	3.293
			Max. Mx	20	-44.047	2029.500	-2.776
			Max. My	2	-44.000	-6.716	2069.490
			Max. Vy	20	-25.874	2029.500	-2.776
			Max. Vx	2	-26.631	-6.716	2069.490
			Max. Torque	15			0.676
L52	39 - 38.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-69.340	-4.716	3.295
			Max. Mx	20	-44.163	2035.960	-2.783
			Max. My	2	-44.117	-6.729	2076.144
			Max. Vy	20	-25.864	2035.960	-2.783
			Max. Vx	2	-26.622	-6.729	2076.144
			Max. Torque	15			0.676
L53	38.75 - 37.166	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-70.134	-4.768	3.296
			Max. Mx	20	-44.802	2076.951	-2.825
			Max. My	2	-44.756	-6.814	2118.368
			Max. Vy	20	-25.953	2076.951	-2.825
			Max. Vx	2	-26.722	-6.814	2118.368
			Max. Torque	15			0.676
L54	37.166 - 36.916	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-70.257	-4.777	3.297
			Max. Mx	20	-44.918	2083.430	-2.832
			Max. My	2	-44.874	-6.827	2125.043
			Max. Vy	20	-25.938	2083.430	-2.832
			Max. Vx	2	-26.708	-6.827	2125.043
			Max. Torque	15			0.676
L55	36.916 - 34	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-71.698	-4.870	3.316
			Max. Mx	20	-46.079	2159.163	-2.909
			Max. My	2	-46.037	-6.982	2203.095
			Max. Vy	20	-26.066	2159.163	-2.909
			Max. Vx	2	-26.856	-6.982	2203.095
			Max. Torque	15			0.676
L56	34 - 33.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-71.819	-4.880	3.320
			Max. Mx	20	-46.192	2165.670	-2.916
			Max. My	2	-46.150	-6.996	2209.803
			Max. Vy	20	-26.050	2165.670	-2.916
			Max. Vx	2	-26.841	-6.996	2209.803
			Max. Torque	15			0.675
L57	33.75 - 29.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-73.714	-5.005	3.362
			Max. Mx	20	-47.742	2270.050	-3.021
			Max. My	2	-47.705	-7.208	2317.455
			Max. Vy	20	-26.193	2270.050	-3.021
			Max. Vx	2	-27.007	-7.208	2317.455
			Max. Torque	15			0.675
L58	29.75 - 29.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-73.834	-5.014	3.366
			Max. Mx	20	-47.851	2276.591	-3.027
			Max. My	2	-47.814	-7.221	2324.204
			Max. Vy	20	-26.185	2276.591	-3.027
			Max. Vx	2	-27.000	-7.221	2324.204
			Max. Torque	15			0.675
L59	29.5 - 24.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-76.215	-5.180	3.420
			Max. Mx	20	-49.827	2407.802	-3.157
			Max. My	2	-49.795	-7.485	2459.624
			Max. Vy	20	-26.352	2407.802	-3.157

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vx	2	-27.189	-7.485	2459.624
			Max. Torque	15			0.675
L60	24.5 - 23	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-76.946	-5.250	3.438
			Max. Mx	20	-50.423	2447.313	-3.195
			Max. My	2	-50.393	-7.564	2500.414
			Max. Vy	20	-26.409	2447.313	-3.195
			Max. Vx	2	-27.245	-7.564	2500.414
			Max. Torque	15			0.675
L61	23 - 22.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-77.077	-5.263	3.442
			Max. Mx	20	-50.548	2453.905	-3.202
			Max. My	2	-50.519	-7.577	2507.219
			Max. Vy	20	-26.390	2453.905	-3.202
			Max. Vx	2	-27.226	-7.577	2507.219
			Max. Torque	15			0.675
L62	22.75 - 21.583	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-77.689	-5.316	3.455
			Max. Mx	20	-51.048	2484.706	-3.231
			Max. My	2	-51.020	-7.639	2539.014
			Max. Vy	20	-26.450	2484.706	-3.231
			Max. Vx	2	-27.285	-7.639	2539.014
			Max. Torque	15			0.675
L63	21.583 - 21.333	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-77.816	-5.328	3.458
			Max. Mx	20	-51.163	2491.310	-3.238
			Max. My	2	-51.136	-7.652	2545.831
			Max. Vy	20	-26.441	2491.310	-3.238
			Max. Vx	2	-27.276	-7.652	2545.831
			Max. Torque	15			0.675
L64	21.333 - 16.333	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-80.327	-5.539	3.503
			Max. Mx	20	-53.263	2623.796	-3.364
			Max. My	2	-53.241	-7.914	2682.563
			Max. Vy	20	-26.608	2623.796	-3.364
			Max. Vx	2	-27.438	-7.914	2682.563
			Max. Torque	15			0.675
L65	16.333 - 12.917	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-82.086	-5.648	3.469
			Max. Mx	20	-54.717	2714.766	-3.450
			Max. My	2	-54.700	-8.092	2776.394
			Max. Vy	20	-26.729	2714.766	-3.450
			Max. Vx	2	-27.539	-8.092	2776.394
			Max. Torque	15			0.675
L66	12.917 - 12.667	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-82.224	-5.657	3.468
			Max. Mx	20	-54.843	2721.440	-3.456
			Max. My	2	-54.827	-8.105	2783.274
			Max. Vy	20	-26.718	2721.440	-3.456
			Max. Vx	2	-27.526	-8.105	2783.274
			Max. Torque	15			0.675
L67	12.667 - 12.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-82.317	-5.662	3.466
			Max. Mx	20	-54.921	2725.899	-3.460
			Max. My	2	-54.905	-8.114	2787.872
			Max. Vy	20	-26.723	2725.899	-3.460
			Max. Vx	2	-27.531	-8.114	2787.872

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Torque	15			0.675
L68	12.5 - 12.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-82.442	-5.670	3.463
			Max. Mx	20	-55.024	2732.576	-3.466
			Max. My	2	-55.009	-8.127	2794.755
			Max. Vy	20	-26.733	2732.576	-3.466
			Max. Vx	2	-27.539	-8.127	2794.755
			Max. Torque	15			0.675
L69	12.25 - 12	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-82.568	-5.678	3.461
			Max. Mx	20	-55.129	2739.256	-3.472
			Max. My	2	-55.113	-8.139	2801.640
			Max. Vy	20	-26.740	2739.256	-3.472
			Max. Vx	2	-27.545	-8.139	2801.640
			Max. Torque	15			0.675
L70	12 - 11.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-82.688	-5.686	3.458
			Max. Mx	20	-55.228	2745.936	-3.479
			Max. My	2	-55.213	-8.152	2808.526
			Max. Vy	20	-26.747	2745.936	-3.479
			Max. Vx	2	-27.551	-8.152	2808.526
			Max. Torque	15			0.675
L71	11.75 - 8.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-84.234	-5.778	3.432
			Max. Mx	20	-56.506	2833.130	-3.559
			Max. My	2	-56.496	-8.321	2898.194
			Max. Vy	20	-26.977	2833.130	-3.559
			Max. Vx	2	-27.661	-8.321	2898.194
			Max. Torque	15			0.675
L72	8.5 - 8.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-84.374	-5.786	3.433
			Max. Mx	20	-56.638	2839.866	-3.565
			Max. My	2	-56.629	-8.333	2905.104
			Max. Vy	20	-26.973	2839.866	-3.565
			Max. Vx	2	-27.646	-8.333	2905.104
			Max. Torque	15			0.675
L73	8.25 - 7	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-85.071	-5.821	3.434
			Max. Mx	20	-57.225	2873.628	-3.595
			Max. My	2	-57.217	-8.398	2939.701
			Max. Vy	20	-27.105	2873.628	-3.595
			Max. Vx	2	-27.732	-8.398	2939.701
			Max. Torque	15			0.675
L74	7 - 6.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-85.198	-5.828	3.434
			Max. Mx	20	-57.343	2880.397	-3.601
			Max. My	2	-57.336	-8.411	2946.630
			Max. Vy	20	-27.105	2880.397	-3.601
			Max. Vx	2	-27.722	-8.411	2946.630
			Max. Torque	15			0.675
L75	6.75 - 1.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-87.685	-5.956	3.432
			Max. Mx	20	-59.498	3016.799	-3.722
			Max. My	2	-59.496	-8.667	3085.777
			Max. Vy	20	-27.514	3016.799	-3.722
			Max. Vx	2	-27.959	-8.667	3085.777
			Max. Torque	15			0.675
L76	1.75 - 0	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-88.535	-5.996	3.431
			Max. Mx	20	-60.254	3065.000	-3.763
			Max. My	2	-60.254	-8.756	3134.736

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vy	20	-27.668	3065.000	-3.763
			Max. Vx	2	-28.054	-8.756	3134.736
			Max. Torque	15			0.675

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	38	88.535	3.788	6.584
	Max. H_x	21	45.206	27.624	-0.029
	Max. H_z	2	60.274	-0.038	28.009
	Max. M_x	2	3134.736	-0.038	28.009
	Max. M_z	8	3064.336	-27.589	0.020
	Max. Torsion	15	0.675	0.057	-27.996
	Min. Vert	5	45.206	-13.339	23.194
	Min. H_x	8	60.274	-27.589	0.020
	Min. H_z	14	60.274	0.057	-27.996
	Min. M_x	14	-3130.328	0.057	-27.996
	Min. M_z	20	-3065.000	27.624	-0.029
	Min. Torsion	3	-0.531	-0.038	28.009

Tower Mast Reaction Summary

Load Combination	Vertical K	$Shear_x$ K	$Shear_z$ K	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
Dead Only	50.229	0.000	-0.000	-1.159	-1.796	0.000
1.2 Dead+1.0 Wind 0 deg - No Ice	60.274	0.038	-28.009	-3134.736	-8.756	0.524
0.9 Dead+1.0 Wind 0 deg - No Ice	45.206	0.038	-28.009	-3069.046	-7.967	0.531
1.2 Dead+1.0 Wind 30 deg - No Ice	60.274	13.339	-23.194	-2634.994	-1515.988	0.216
0.9 Dead+1.0 Wind 30 deg - No Ice	45.206	13.339	-23.194	-2579.300	-1483.600	0.220
1.2 Dead+1.0 Wind 60 deg - No Ice	60.274	23.416	-13.666	-1532.757	-2616.873	-0.218
0.9 Dead+1.0 Wind 60 deg - No Ice	45.206	23.416	-13.666	-1500.184	-2561.442	-0.218
1.2 Dead+1.0 Wind 90 deg - No Ice	60.274	27.589	-0.020	-5.343	-3064.336	-0.165
0.9 Dead+1.0 Wind 90 deg - No Ice	45.206	27.589	-0.020	-4.826	-2999.659	-0.168
1.2 Dead+1.0 Wind 120 deg - No Ice	60.274	25.627	14.890	1606.248	-2764.511	-0.109
0.9 Dead+1.0 Wind 120 deg - No Ice	45.206	25.627	14.890	1573.571	-2707.083	-0.115
1.2 Dead+1.0 Wind 150 deg - No Ice	60.274	15.686	27.297	2904.437	-1668.880	-0.577
0.9 Dead+1.0 Wind 150 deg - No Ice	45.206	15.686	27.297	2845.564	-1634.297	-0.586
1.2 Dead+1.0 Wind 180 deg -	60.274	-0.057	27.996	3130.328	7.103	-0.667

Load Combination	Vertical K	$Shear_x$ K	$Shear_z$ K	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
No Ice						
0.9 Dead+1.0 Wind 180 deg - No Ice	45.206	-0.057	27.996	3065.481	7.495	-0.675
1.2 Dead+1.0 Wind 210 deg - No Ice	60.274	-13.331	23.151	2628.259	1511.682	-0.448
0.9 Dead+1.0 Wind 210 deg - No Ice	45.206	-13.331	23.151	2573.436	1480.514	-0.453
1.2 Dead+1.0 Wind 240 deg - No Ice	60.274	-23.406	13.653	1528.896	2612.609	-0.144
0.9 Dead+1.0 Wind 240 deg - No Ice	45.206	-23.406	13.653	1497.151	2558.390	-0.145
1.2 Dead+1.0 Wind 270 deg - No Ice	60.274	-27.624	0.029	3.763	3065.000	0.134
0.9 Dead+1.0 Wind 270 deg - No Ice	45.206	-27.624	0.029	4.043	3001.446	0.138
1.2 Dead+1.0 Wind 300 deg - No Ice	60.274	-25.657	-14.879	-1607.576	2764.239	-0.032
0.9 Dead+1.0 Wind 300 deg - No Ice	45.206	-25.657	-14.879	-1574.104	2707.970	-0.026
1.2 Dead+1.0 Wind 330 deg - No Ice	60.274	-15.677	-27.299	-2907.638	1662.973	0.469
0.9 Dead+1.0 Wind 330 deg - No Ice	45.206	-15.677	-27.299	-2847.938	1629.677	0.477
1.2 Dead+1.0 Ice+1.0 Temp	88.535	0.000	-0.000	-3.431	-5.996	0.000
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	88.535	0.006	-6.686	-815.780	-7.480	0.098
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	88.535	3.308	-5.744	-702.371	-408.627	0.016
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	88.535	5.760	-3.352	-409.361	-701.781	-0.080
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	88.535	6.723	-0.003	-4.281	-813.063	-0.069
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	88.535	6.126	3.554	416.488	-729.495	-0.076
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	88.535	3.790	6.584	758.607	-444.283	-0.233
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	88.535	-0.010	6.686	808.679	-4.139	-0.129
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	88.535	-3.313	5.747	695.811	397.174	-0.065
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	88.535	-5.766	3.354	402.711	690.586	0.002
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	88.535	-6.731	0.005	-2.439	802.008	0.062
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	88.535	-6.132	-3.552	-423.148	718.182	0.047
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	88.535	-3.788	-6.584	-765.686	431.722	0.210
Dead+Wind 0 deg - Service	50.229	0.009	-6.837	-757.940	-3.439	0.130
Dead+Wind 30 deg - Service	50.229	3.255	-5.660	-636.880	-367.257	0.051
Dead+Wind 60 deg - Service	50.229	5.714	-3.335	-370.814	-632.986	-0.058
Dead+Wind 90 deg - Service	50.229	6.732	-0.005	-2.145	-741.002	-0.044
Dead+Wind 120 deg - Service	50.229	6.252	3.633	386.909	-668.738	-0.029
Dead+Wind 150 deg - Service	50.229	3.828	6.661	700.761	-404.494	-0.145
Dead+Wind 180 deg - Service	50.229	-0.014	6.833	755.149	0.371	-0.166
Dead+Wind 210 deg - Service	50.229	-3.253	5.649	633.529	363.549	-0.110
Dead+Wind 240 deg - Service	50.229	-5.711	3.331	368.159	629.290	-0.033
Dead+Wind 270 deg - Service	50.229	-6.740	0.007	0.042	738.500	0.037
Dead+Wind 300 deg - Service	50.229	-6.260	-3.630	-388.951	666.013	-0.006
Dead+Wind 330 deg - Service	50.229	-3.826	-6.662	-703.258	400.407	0.118

Solution Summary

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX K	PY K	PZ K	PX K	PY K	PZ K	% Error
1	0.000	-50.229	0.000	-0.000	50.229	0.000	0.000%
2	0.038	-60.274	-28.009	-0.038	60.274	28.009	0.000%
3	0.038	-45.206	-28.009	-0.038	45.206	28.009	0.000%
4	13.339	-60.274	-23.194	-13.339	60.274	23.194	0.000%
5	13.339	-45.206	-23.194	-13.339	45.206	23.194	0.000%
6	23.416	-60.274	-13.666	-23.416	60.274	13.666	0.000%
7	23.416	-45.206	-13.666	-23.416	45.206	13.666	0.000%
8	27.589	-60.274	-0.020	-27.589	60.274	0.020	0.000%
9	27.589	-45.206	-0.020	-27.589	45.206	0.020	0.000%
10	25.627	-60.274	14.890	-25.627	60.274	-14.890	0.000%
11	25.627	-45.206	14.890	-25.627	45.206	-14.890	0.000%
12	15.686	-60.274	27.297	-15.686	60.274	-27.297	0.000%
13	15.686	-45.206	27.297	-15.686	45.206	-27.297	0.000%
14	-0.057	-60.274	27.996	0.057	60.274	-27.996	0.000%
15	-0.057	-45.206	27.996	0.057	45.206	-27.996	0.000%
16	-13.331	-60.274	23.151	13.331	60.274	-23.151	0.000%
17	-13.331	-45.206	23.151	13.331	45.206	-23.151	0.000%
18	-23.406	-60.274	13.653	23.406	60.274	-13.653	0.000%
19	-23.406	-45.206	13.653	23.406	45.206	-13.653	0.000%
20	-27.624	-60.274	0.029	27.624	60.274	-0.029	0.000%
21	-27.624	-45.206	0.029	27.624	45.206	-0.029	0.000%
22	-25.657	-60.274	-14.879	25.657	60.274	14.879	0.000%
23	-25.657	-45.206	-14.879	25.657	45.206	14.879	0.000%
24	-15.677	-60.274	-27.299	15.677	60.274	27.299	0.000%
25	-15.677	-45.206	-27.299	15.677	45.206	27.299	0.000%
26	0.000	-88.535	0.000	-0.000	88.535	0.000	0.000%
27	0.006	-88.535	-6.686	-0.006	88.535	6.686	0.000%
28	3.308	-88.535	-5.744	-3.308	88.535	5.744	0.000%
29	5.760	-88.535	-3.352	-5.760	88.535	3.352	0.000%
30	6.723	-88.535	-0.003	-6.723	88.535	0.003	0.000%
31	6.126	-88.535	3.554	-6.126	88.535	-3.554	0.000%
32	3.790	-88.535	6.584	-3.790	88.535	-6.584	0.000%
33	-0.010	-88.535	6.686	0.010	88.535	-6.686	0.000%
34	-3.313	-88.535	5.747	3.313	88.535	-5.747	0.000%
35	-5.766	-88.535	3.354	5.766	88.535	-3.354	0.000%
36	-6.731	-88.535	0.005	6.731	88.535	-0.005	0.000%
37	-6.132	-88.535	-3.552	6.132	88.535	3.552	0.000%
38	-3.788	-88.535	-6.584	3.788	88.535	6.584	0.000%
39	0.009	-50.229	-6.837	-0.009	50.229	6.837	0.000%
40	3.255	-50.229	-5.660	-3.255	50.229	5.660	0.000%
41	5.714	-50.229	-3.335	-5.714	50.229	3.335	0.000%
42	6.732	-50.229	-0.005	-6.732	50.229	0.005	0.000%
43	6.252	-50.229	3.633	-6.252	50.229	-3.633	0.000%
44	3.828	-50.229	6.661	-3.828	50.229	-6.661	0.000%
45	-0.014	-50.229	6.833	0.014	50.229	-6.833	0.000%
46	-3.253	-50.229	5.649	3.253	50.229	-5.649	0.000%
47	-5.711	-50.229	3.331	5.711	50.229	-3.331	0.000%
48	-6.740	-50.229	0.007	6.740	50.229	-0.007	0.000%
49	-6.260	-50.229	-3.630	6.260	50.229	3.630	0.000%
50	-3.826	-50.229	-6.662	3.826	50.229	6.662	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00002131
2	Yes	6	0.00000001	0.00059662
3	Yes	6	0.00000001	0.00020406
4	Yes	8	0.00000001	0.00020562
5	Yes	7	0.00000001	0.00052102
6	Yes	8	0.00000001	0.00020526
7	Yes	7	0.00000001	0.00052006
8	Yes	6	0.00000001	0.00031895
9	Yes	6	0.00000001	0.00010310
10	Yes	8	0.00000001	0.00021360
11	Yes	7	0.00000001	0.00053634
12	Yes	8	0.00000001	0.00022749
13	Yes	7	0.00000001	0.00056730
14	Yes	6	0.00000001	0.00035108
15	Yes	6	0.00000001	0.00011947
16	Yes	8	0.00000001	0.00020229
17	Yes	7	0.00000001	0.00051225
18	Yes	8	0.00000001	0.00020488
19	Yes	7	0.00000001	0.00051940
20	Yes	6	0.00000001	0.00018110
21	Yes	5	0.00000001	0.00070142
22	Yes	8	0.00000001	0.00021487
23	Yes	7	0.00000001	0.00053990
24	Yes	8	0.00000001	0.00022279
25	Yes	7	0.00000001	0.00055445
26	Yes	5	0.00000001	0.00063636
27	Yes	8	0.00000001	0.00021518
28	Yes	8	0.00000001	0.00030607
29	Yes	8	0.00000001	0.00030639
30	Yes	8	0.00000001	0.00021448
31	Yes	8	0.00000001	0.00030927
32	Yes	8	0.00000001	0.00033040
33	Yes	8	0.00000001	0.00021115
34	Yes	8	0.00000001	0.00029139
35	Yes	8	0.00000001	0.00029226
36	Yes	8	0.00000001	0.00020951
37	Yes	8	0.00000001	0.00030916
38	Yes	8	0.00000001	0.00032394
39	Yes	5	0.00000001	0.00045213
40	Yes	6	0.00000001	0.00034225
41	Yes	6	0.00000001	0.00034135
42	Yes	5	0.00000001	0.00037599
43	Yes	6	0.00000001	0.00035817
44	Yes	6	0.00000001	0.00041081
45	Yes	5	0.00000001	0.00044867
46	Yes	6	0.00000001	0.00032046
47	Yes	6	0.00000001	0.00032994
48	Yes	5	0.00000001	0.00036251
49	Yes	6	0.00000001	0.00036242
50	Yes	6	0.00000001	0.00038879

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	144.25 - 139.25	33.223	50	2.379	0.007
L2	139.25 - 134.75	30.737	50	2.366	0.006
L3	134.75 - 134.25	28.527	50	2.320	0.006
L4	134.25 - 129.25	28.285	50	2.313	0.006
L5	129.25 - 124.25	25.930	50	2.181	0.004
L6	124.25 - 123.416	23.735	50	2.004	0.003
L7	123.416 - 123.166	23.388	50	1.971	0.002
L8	123.166 - 118.166	23.285	50	1.968	0.002
L9	118.166 - 113.166	21.269	50	1.883	0.002
L10	113.166 - 109.5	19.349	50	1.783	0.001
L11	109.5 - 109.25	18.011	50	1.702	0.001
L12	109.25 - 104.75	17.922	50	1.698	0.001
L13	104.75 - 104.5	16.364	50	1.607	0.001
L14	104.5 - 102.416	16.280	50	1.603	0.001
L15	102.416 - 102.166	15.588	50	1.570	0.001
L16	102.166 - 98.75	15.506	50	1.564	0.001
L17	98.75 - 98.5	14.414	50	1.488	0.001
L18	98.5 - 97.5	14.336	50	1.485	0.001
L19	97.5 - 97.25	14.027	50	1.469	0.001
L20	97.25 - 92	13.950	50	1.465	0.001
L21	95.552 - 90.552	13.435	50	1.435	0.001
L22	90.552 - 89.25	11.958	50	1.377	0.001
L23	89.25 - 89	11.585	50	1.354	0.001
L24	89 - 88.25	11.515	50	1.350	0.001
L25	88.25 - 88	11.303	50	1.339	0.001
L26	88 - 87.833	11.233	50	1.334	0.001
L27	87.833 - 87.583	11.187	50	1.331	0.001
L28	87.583 - 82.583	11.117	50	1.326	0.001
L29	82.583 - 77.583	9.786	50	1.217	0.001
L30	77.583 - 77	8.571	50	1.104	0.000
L31	77 - 76.75	8.437	50	1.092	0.000
L32	76.75 - 76.333	8.380	50	1.087	0.000
L33	76.333 - 76.083	8.285	50	1.080	0.000
L34	76.083 - 74.25	8.229	50	1.076	0.000
L35	74.25 - 74	7.822	50	1.044	0.000
L36	74 - 73.75	7.767	50	1.040	0.000
L37	73.75 - 73.5	7.713	50	1.036	0.000
L38	73.5 - 68.5	7.659	50	1.032	0.000
L39	68.5 - 63.5	6.621	50	0.951	0.000
L40	63.5 - 60.5	5.667	50	0.870	0.000
L41	60.5 - 60.25	5.136	50	0.821	0.000
L42	60.25 - 59.5	5.093	50	0.817	0.000
L43	59.5 - 59.25	4.966	50	0.805	0.000
L44	59.25 - 54.25	4.924	50	0.801	0.000
L45	54.25 - 45.802	4.126	50	0.723	0.000
L46	50 - 44.802	3.512	50	0.658	0.000
L47	44.802 - 43.583	2.818	50	0.610	0.000
L48	43.583 - 43.333	2.665	50	0.591	0.000
L49	43.333 - 43.166	2.634	50	0.588	0.000
L50	43.166 - 42.916	2.613	50	0.585	0.000
L51	42.916 - 39	2.583	50	0.582	0.000
L52	39 - 38.75	2.128	50	0.526	0.000
L53	38.75 - 37.166	2.101	50	0.523	0.000
L54	37.166 - 36.916	1.931	50	0.502	0.000
L55	36.916 - 34	1.905	50	0.499	0.000
L56	34 - 33.75	1.613	50	0.458	0.000
L57	33.75 - 29.75	1.589	50	0.454	0.000
L58	29.75 - 29.5	1.232	50	0.398	0.000
L59	29.5 - 24.5	1.211	50	0.395	0.000
L60	24.5 - 23	0.834	50	0.326	0.000
L61	23 - 22.75	0.734	50	0.306	0.000

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L62	22.75 - 21.583	0.718	50	0.303	0.000
L63	21.583 - 21.333	0.646	50	0.289	0.000
L64	21.333 - 16.333	0.631	50	0.286	0.000
L65	16.333 - 12.917	0.367	50	0.219	0.000
L66	12.917 - 12.667	0.226	50	0.174	0.000
L67	12.667 - 12.5	0.217	50	0.171	0.000
L68	12.5 - 12.25	0.211	50	0.169	0.000
L69	12.25 - 12	0.203	50	0.166	0.000
L70	12 - 11.75	0.194	50	0.162	0.000
L71	11.75 - 8.5	0.186	50	0.158	0.000
L72	8.5 - 8.25	0.096	50	0.106	0.000
L73	8.25 - 7	0.090	50	0.104	0.000
L74	7 - 6.75	0.065	50	0.089	0.000
L75	6.75 - 1.75	0.060	50	0.086	0.000
L76	1.75 - 0	0.004	50	0.022	0.000

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
144.000	EPBQ-654L8H8-L2 w/ Mount Pipe	50	33.098	2.379	0.008	8667
133.000	VHLP2-23	50	27.684	2.291	0.006	2573
130.000	(2) APXVSPP18-C-A20 w/ Mount Pipe	50	26.274	2.205	0.006	1917
120.000	MX08FRO665-21 w/ Mount Pipe	50	21.998	1.917	0.003	3054
110.000	SBNHH-1D65B w/ Mount Pipe	50	18.190	1.712	0.002	2734
100.000	AIR -32 B2A/B66AA w/ Mount Pipe	50	14.807	1.513	0.001	2929
50.000	KS24019-L112A	50	3.512	0.658	0.000	4965

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	144.25 - 139.25	137.239	24	9.865	0.029
L2	139.25 - 134.75	127.011	24	9.809	0.026
L3	134.75 - 134.25	117.921	24	9.617	0.023
L4	134.25 - 129.25	116.924	24	9.591	0.022
L5	129.25 - 124.25	107.229	24	9.041	0.018
L6	124.25 - 123.416	98.188	24	8.311	0.011
L7	123.416 - 123.166	96.757	24	8.176	0.010
L8	123.166 - 118.166	96.332	24	8.160	0.010
L9	118.166 - 113.166	88.013	24	7.810	0.008
L10	113.166 - 109.5	80.088	24	7.396	0.006
L11	109.5 - 109.25	74.561	24	7.063	0.005
L12	109.25 - 104.75	74.194	24	7.044	0.005
L13	104.75 - 104.5	67.757	24	6.668	0.004
L14	104.5 - 102.416	67.409	24	6.652	0.004
L15	102.416 - 102.166	64.547	24	6.513	0.004
L16	102.166 - 98.75	64.208	24	6.491	0.004

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L17	98.75 - 98.5	59.692	24	6.176	0.003
L18	98.5 - 97.5	59.370	24	6.160	0.003
L19	97.5 - 97.25	58.091	24	6.096	0.003
L20	97.25 - 92	57.774	24	6.078	0.003
L21	95.552 - 90.552	55.641	24	5.953	0.003
L22	90.552 - 89.25	49.529	24	5.714	0.003
L23	89.25 - 89	47.989	24	5.616	0.003
L24	89 - 88.25	47.696	24	5.601	0.003
L25	88.25 - 88	46.822	24	5.554	0.003
L26	88 - 87.833	46.533	24	5.535	0.003
L27	87.833 - 87.583	46.340	24	5.522	0.003
L28	87.583 - 82.583	46.052	24	5.500	0.003
L29	82.583 - 77.583	40.542	24	5.049	0.002
L30	77.583 - 77	35.510	24	4.582	0.002
L31	77 - 76.75	34.954	24	4.529	0.002
L32	76.75 - 76.333	34.718	24	4.511	0.002
L33	76.333 - 76.083	34.326	24	4.481	0.002
L34	76.083 - 74.25	34.093	24	4.463	0.002
L35	74.25 - 74	32.407	24	4.331	0.002
L36	74 - 73.75	32.181	24	4.314	0.002
L37	73.75 - 73.5	31.956	24	4.297	0.002
L38	73.5 - 68.5	31.732	24	4.281	0.002
L39	68.5 - 63.5	27.431	24	3.946	0.001
L40	63.5 - 60.5	23.481	12	3.609	0.001
L41	60.5 - 60.25	21.281	12	3.404	0.001
L42	60.25 - 59.5	21.103	12	3.388	0.001
L43	59.5 - 59.25	20.576	12	3.337	0.001
L44	59.25 - 54.25	20.401	12	3.322	0.001
L45	54.25 - 45.802	17.095	12	2.999	0.001
L46	50 - 44.802	14.549	12	2.728	0.001
L47	44.802 - 43.583	11.674	12	2.529	0.001
L48	43.583 - 43.333	11.039	12	2.451	0.001
L49	43.333 - 43.166	10.911	12	2.436	0.001
L50	43.166 - 42.916	10.826	12	2.425	0.001
L51	42.916 - 39	10.700	12	2.411	0.001
L52	39 - 38.75	8.817	12	2.182	0.001
L53	38.75 - 37.166	8.703	12	2.168	0.001
L54	37.166 - 36.916	7.999	12	2.081	0.001
L55	36.916 - 34	7.890	12	2.067	0.001
L56	34 - 33.75	6.680	12	1.898	0.000
L57	33.75 - 29.75	6.581	12	1.883	0.000
L58	29.75 - 29.5	5.101	12	1.651	0.000
L59	29.5 - 24.5	5.015	12	1.637	0.000
L60	24.5 - 23	3.452	12	1.350	0.000
L61	23 - 22.75	3.041	12	1.266	0.000
L62	22.75 - 21.583	2.975	12	1.254	0.000
L63	21.583 - 21.333	2.676	12	1.197	0.000
L64	21.333 - 16.333	2.614	12	1.183	0.000
L65	16.333 - 12.917	1.520	12	0.907	0.000
L66	12.917 - 12.667	0.938	12	0.721	0.000
L67	12.667 - 12.5	0.900	12	0.709	0.000
L68	12.5 - 12.25	0.876	12	0.701	0.000
L69	12.25 - 12	0.839	12	0.686	0.000
L70	12 - 11.75	0.804	12	0.672	0.000
L71	11.75 - 8.5	0.769	12	0.656	0.000
L72	8.5 - 8.25	0.396	12	0.440	0.000
L73	8.25 - 7	0.373	12	0.429	0.000
L74	7 - 6.75	0.269	12	0.370	0.000
L75	6.75 - 1.75	0.250	12	0.357	0.000
L76	1.75 - 0	0.017	12	0.090	0.000

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
144.000	EPBQ-654L8H8-L2 w/ Mount Pipe	24	136.726	9.864	0.035	2193
133.000	VHLP2-23	24	114.449	9.496	0.027	653
130.000	(2) APXVSPP18-C-A20 w/ Mount Pipe	24	108.646	9.139	0.024	491
120.000	MX08FRO665-21 w/ Mount Pipe	24	91.022	7.953	0.011	771
110.000	SBNHH-1D65B w/ Mount Pipe	24	75.300	7.103	0.006	683
100.000	AIR -32 B2A/B66AA w/ Mount Pipe	24	61.319	6.279	0.005	726
50.000	KS24019-L112A	12	14.549	2.728	0.001	1202

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L1	144.25 - 139.25 (1)	TP12.75x12.75x0.375	5.000	0.000	0.0	14.579	-5.140	603.569	0.009
L2	139.25 - 134.75 (2)	TP12.75x12.75x0.375	4.500	0.000	0.0	14.579	-5.424	603.569	0.009
L3	134.75 - 134.25 (3)	TP13.48x13.48x0.375	0.500	0.000	0.0	15.439	-5.461	639.173	0.009
L4	134.25 - 129.25 (4)	TP14.466x13.48x0.188	5.000	0.000	0.0	8.621	-9.099	504.301	0.018
L5	129.25 - 124.25 (5)	TP15.452x14.466x0.188	5.000	0.000	0.0	9.216	-9.446	539.118	0.018
L6	124.25 - 123.416 (6)	TP15.616x15.452x0.188	0.834	0.000	0.0	9.315	-9.511	544.926	0.017
L7	123.416 - 123.166 (7)	TP15.665x15.616x0.538	0.250	0.000	0.0	26.183	-9.550	1531.670	0.006
L8	123.166 - 118.166 (8)	TP16.651x15.665x0.513	5.000	0.000	0.0	26.633	-12.985	1558.020	0.008
L9	118.166 - 113.166 (9)	TP17.637x16.651x0.488	5.000	0.000	0.0	26.920	-13.499	1574.840	0.009
L10	113.166 - 109.5 (10)	TP18.36x17.637x0.475	3.666	0.000	0.0	27.355	-17.304	1600.250	0.011
L11	109.5 - 109.25 (11)	TP18.409x18.36x0.588	0.250	0.000	0.0	33.714	-17.362	1972.260	0.009
L12	109.25 - 104.75 (12)	TP19.296x18.409x0.563	4.500	0.000	0.0	33.931	-18.098	1984.990	0.009
L13	104.75 - 104.5 (13)	TP19.346x19.296x0.775	0.250	0.000	0.0	46.343	-18.166	2711.050	0.007
L14	104.5 - 102.416 (14)	TP19.756x19.346x0.763	2.084	0.000	0.0	46.635	-18.599	2728.130	0.007
L15	102.416 - 102.166 (15)	TP19.806x19.756x0.563	0.250	0.000	0.0	34.854	-18.658	2038.970	0.009
L16	102.166 -	TP20.479x19.806x0.55	3.416	0.000	0.0	35.295	-23.276	2064.730	0.011

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
	98.75 (16)								
L17	98.75 - 98.5 (17)	TP20.528x20.479x0.838	0.250	0.000	0.0	53.102	-23.360	3106.440	0.008
L18	98.5 - 97.5 (18)	TP20.726x20.528x0.838	1.000	0.000	0.0	53.633	-23.611	3137.550	0.008
L19	97.5 - 97.25 (19)	TP20.775x20.726x0.75	0.250	0.000	0.0	48.360	-23.684	2829.070	0.008
L20	97.25 - 92 (20)	TP21.81x20.775x0.738	5.250	0.000	0.0	48.379	-24.092	2830.160	0.009
L21	92 - 90.552 (21)	TP21.73x20.735x0.8	5.000	0.000	0.0	53.916	-26.131	3154.100	0.008
L22	90.552 - 89.25 (22)	TP21.989x21.73x0.775	1.302	0.000	0.0	52.941	-26.493	3097.030	0.009
L23	89.25 - 89 (23)	TP22.039x21.989x1	0.250	0.000	0.0	67.746	-26.589	3963.150	0.007
L24	89 - 88.25 (24)	TP22.189x22.039x0.975	0.750	0.000	0.0	66.600	-26.816	3896.090	0.007
L25	88.25 - 88 (25)	TP22.238x22.189x0.763	0.250	0.000	0.0	52.729	-26.890	3084.620	0.009
L26	88 - 87.833 (26)	TP22.272x22.238x0.763	0.167	0.000	0.0	52.810	-26.936	3089.390	0.009
L27	87.833 - 87.583 (27)	TP22.321x22.272x0.675	0.250	0.000	0.0	47.048	-26.997	2752.330	0.010
L28	87.583 - 82.583 (28)	TP23.317x22.321x0.65	5.000	0.000	0.0	47.442	-28.240	2775.340	0.010
L29	82.583 - 77.583 (29)	TP24.312x23.317x0.625	5.000	0.000	0.0	47.671	-29.529	2788.740	0.011
L30	77.583 - 77 (30)	TP24.428x24.312x0.625	0.583	0.000	0.0	47.904	-29.690	2802.410	0.011
L31	77 - 76.75 (31)	TP24.478x24.428x0.825	0.250	0.000	0.0	62.835	-29.774	3675.830	0.008
L32	76.75 - 76.333 (32)	TP24.561x24.478x0.825	0.417	0.000	0.0	63.055	-29.898	3688.730	0.008
L33	76.333 - 76.083 (33)	TP24.611x24.561x0.825	0.250	0.000	0.0	63.188	-29.973	3696.470	0.008
L34	76.083 - 74.25 (34)	TP24.976x24.611x0.8	1.833	0.000	0.0	62.277	-30.480	3643.220	0.008
L35	74.25 - 74 (35)	TP25.026x24.976x0.888	0.250	0.000	0.0	68.981	-30.582	4035.390	0.008
L36	74 - 73.75 (36)	TP25.076x25.026x0.888	0.250	0.000	0.0	69.123	-30.658	4043.710	0.008
L37	73.75 - 73.5 (37)	TP25.125x25.076x0.913	0.250	0.000	0.0	71.143	-30.737	4161.880	0.007
L38	73.5 - 68.5 (38)	TP26.121x25.125x0.875	5.000	0.000	0.0	71.130	-32.297	4161.110	0.008
L39	68.5 - 63.5 (39)	TP27.116x26.121x0.85	5.000	0.000	0.0	71.891	-33.893	4205.620	0.008
L40	63.5 - 60.5 (40)	TP27.714x27.116x0.825	3.000	0.000	0.0	71.430	-34.865	4178.630	0.008
L41	60.5 - 60.25 (41)	TP27.763x27.714x0.825	0.250	0.000	0.0	71.562	-34.959	4186.370	0.008
L42	60.25 - 59.5 (42)	TP27.913x27.763x0.825	0.750	0.000	0.0	71.959	-35.197	4209.570	0.008
L43	59.5 - 59.25 (43)	TP27.962x27.913x0.888	0.250	0.000	0.0	77.373	-35.291	4526.350	0.008
L44	59.25 - 54.25 (44)	TP28.958x27.962x0.85	5.000	0.000	0.0	76.932	-36.994	4500.500	0.008
L45	54.25 - 45.802 (45)	TP30.64x28.958x0.838	8.448	0.000	0.0	78.116	-38.471	4569.780	0.008
L46	45.802 - 44.802 (46)	TP30.333x29.304x0.838	5.198	0.000	0.0	79.542	-41.597	4653.200	0.009
L47	44.802 - 43.583 (47)	TP30.574x30.333x0.838	1.219	0.000	0.0	80.192	-42.034	4691.260	0.009
L48	43.583 - 43.333 (48)	TP30.624x30.574x0.85	0.250	0.000	0.0	81.491	-42.145	4767.200	0.009
L49	43.333 - 43.166 (49)	TP30.657x30.624x0.85	0.167	0.000	0.0	81.581	-42.210	4772.490	0.009
L50	43.166 - 42.916 (50)	TP30.706x30.657x0.938	0.250	0.000	0.0	89.864	-42.308	5257.060	0.008
L51	42.916 - 39 (51)	TP31.481x30.706x0.913	3.916	0.000	0.0	89.819	-43.846	5254.390	0.008

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L52	39 - 38.75 (52)	TP31.531x31.481x0.95	0.250	0.000	0.0	93.547	-43.966	5472.470	0.008
L53	38.75 - 37.166 (53)	TP31.844x31.531x0.938	1.584	0.000	0.0	93.300	-44.607	5458.030	0.008
L54	37.166 - 36.916 (54)	TP31.894x31.844x0.888	0.250	0.000	0.0	88.608	-44.727	5183.570	0.009
L55	36.916 - 34 (55)	TP32.471x31.894x0.888	2.916	0.000	0.0	90.257	-45.896	5280.050	0.009
L56	34 - 33.75 (56)	TP32.52x32.471x0.875	0.250	0.000	0.0	89.161	-46.013	5215.900	0.009
L57	33.75 - 29.75 (57)	TP33.312x32.52x0.863	4.000	0.000	0.0	88.471	-46.423	5175.570	0.009
L58	29.75 - 29.5 (58)	TP33.361x33.312x0.863	0.250	0.000	0.0	90.120	-47.599	5272.040	0.009
L59	29.5 - 24.5 (59)	TP34.351x33.361x0.85	5.000	0.000	0.0	88.984	-47.711	5205.560	0.009
L60	24.5 - 23 (60)	TP34.648x34.351x0.838	1.500	0.000	0.0	90.378	-49.728	5287.090	0.009
L61	23 - 22.75 (61)	TP34.697x34.648x0.963	0.250	0.000	0.0	104.400	-50.319	6107.370	0.008
L62	22.75 - 21.583 (62)	TP34.928x34.697x0.963	1.167	0.000	0.0	104.553	-50.441	6116.340	0.008
L63	21.583 - 21.333 (63)	TP34.978x34.928x0.85	0.250	0.000	0.0	93.272	-50.945	5456.440	0.009
L64	21.333 - 16.333 (64)	TP35.967x34.978x0.838	5.000	0.000	0.0	92.068	-51.063	5385.980	0.009
L65	16.333 - 12.917 (65)	TP36.644x35.967x0.825	3.416	0.000	0.0	93.356	-53.199	5461.320	0.010
L66	12.917 - 12.667 (66)	TP36.693x36.644x0.913	0.250	0.000	0.0	104.987	-54.660	6141.720	0.009
L67	12.667 - 12.5 (67)	TP36.726x36.693x0.913	0.167	0.000	0.0	105.132	-54.775	6150.220	0.009
L68	12.5 - 12.25 (68)	TP36.776x36.726x0.763	0.250	0.000	0.0	88.299	-54.855	5165.520	0.011
L69	12.25 - 12 (69)	TP36.825x36.776x0.763	0.250	0.000	0.0	88.421	-54.961	5172.630	0.011
L70	12 - 11.75 (70)	TP36.874x36.825x0.663	0.250	0.000	0.0	77.144	-55.067	4512.900	0.012
L71	11.75 - 8.5 (71)	TP37.518x36.874x0.65	3.250	0.000	0.0	75.818	-55.183	4435.340	0.012
L72	8.5 - 8.25 (72)	TP37.567x37.518x0.925	0.250	0.000	0.0	108.991	-56.479	6376.000	0.009
L73	8.25 - 7 (73)	TP37.815x37.567x0.913	1.250	0.000	0.0	107.701	-56.612	6300.490	0.009
L74	7 - 6.75 (74)	TP37.864x37.815x0.813	0.250	0.000	0.0	96.807	-57.203	5663.190	0.010
L75	6.75 - 1.75 (75)	TP38.854x37.864x0.788	5.000	0.000	0.0	94.017	-57.323	5499.990	0.010
L76	1.75 - 0 (76)	TP39.2x38.854x0.788	1.750	0.000	0.0	96.526	-59.524	5646.780	0.011

Pole Bending Design Data

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L1	144.25 - 139.25 (1)	TP12.75x12.75x0.375	27.041	198.187	0.136	0.000	198.187	0.000
L2	139.25 - 134.75 (2)	TP12.75x12.75x0.375	57.297	198.187	0.289	0.000	198.187	0.000
L3	134.75 - 134.25 (3)	TP13.48x13.48x0.375	60.703	222.251	0.273	0.000	222.251	0.000
L4	134.25 - 129.25 (4)	TP14.466x13.48x0.188	100.669	183.885	0.547	0.000	183.885	0.000
L5	129.25 - 124.25 (5)	TP15.452x14.466x0.188	157.363	210.328	0.748	0.000	210.328	0.000
L6	124.25 - 123.416 (6)	TP15.616x15.452x0.188	166.898	214.735	0.777	0.000	214.735	0.000
L7	123.416 - 123.166 (7)	TP15.665x15.616x0.538	169.762	578.929	0.293	0.000	578.929	0.000
L8	123.166 -	TP16.651x15.665x0.513	233.015	630.532	0.370	0.000	630.532	0.000

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
	118.166 (8)							
L9	118.166 - 113.166 (9)	TP17.637x16.651x0.488	307.582	679.450	0.453	0.000	679.450	0.000
L10	113.166 - 109.5 (10)	TP18.36x17.637x0.475	365.809	721.324	0.507	0.000	721.324	0.000
L11	109.5 - 109.25 (11)	TP18.409x18.36x0.588	370.788	880.375	0.421	0.000	880.375	0.000
L12	109.25 - 104.75 (12)	TP19.296x18.409x0.563	461.273	934.067	0.494	0.000	934.067	0.000
L13	104.75 - 104.5 (13)	TP19.346x19.296x0.775	466.350	1250.400	0.373	0.000	1250.400	0.000
L14	104.5 - 102.416 (14)	TP19.756x19.346x0.763	508.892	1288.933	0.395	0.000	1288.933	0.000
L15	102.416 - 102.166 (15)	TP19.806x19.756x0.563	514.023	986.325	0.521	0.000	986.325	0.000
L16	102.166 - 98.75 (16)	TP20.479x19.806x0.55	590.177	1036.033	0.570	0.000	1036.033	0.000
L17	98.75 - 98.5 (17)	TP20.528x20.479x0.838	596.112	1518.050	0.393	0.000	1518.050	0.000
L18	98.5 - 97.5 (18)	TP20.726x20.528x0.838	619.915	1549.233	0.400	0.000	1549.233	0.000
L19	97.5 - 97.25 (19)	TP20.775x20.726x0.75	625.881	1412.833	0.443	0.000	1412.833	0.000
L20	97.25 - 92 (20)	TP21.81x20.775x0.738	666.550	1439.625	0.463	0.000	1439.625	0.000
L21	92 - 90.552 (21)	TP21.73x20.735x0.8	788.248	1645.142	0.479	0.000	1645.142	0.000
L22	90.552 - 89.25 (22)	TP21.989x21.73x0.775	820.368	1639.983	0.500	0.000	1639.983	0.000
L23	89.25 - 89 (23)	TP22.039x21.989x1	826.553	2059.442	0.401	0.000	2059.442	0.000
L24	89 - 88.25 (24)	TP22.189x22.039x0.975	845.150	2044.433	0.413	0.000	2044.433	0.000
L25	88.25 - 88 (25)	TP22.238x22.189x0.763	851.358	1655.175	0.514	0.000	1655.175	0.000
L26	88 - 87.833 (26)	TP22.272x22.238x0.763	855.508	1660.392	0.515	0.000	1660.392	0.000
L27	87.833 - 87.583 (27)	TP22.321x22.272x0.675	861.725	1494.833	0.576	0.000	1494.833	0.000
L28	87.583 - 82.583 (28)	TP23.317x22.321x0.65	987.142	1582.242	0.624	0.000	1582.242	0.000
L29	82.583 - 77.583 (29)	TP24.312x23.317x0.625	1114.475	1665.175	0.669	0.000	1665.175	0.000
L30	77.583 - 77 (30)	TP24.428x24.312x0.625	1129.450	1681.742	0.672	0.000	1681.742	0.000
L31	77 - 76.75 (31)	TP24.478x24.428x0.825	1135.875	2173.708	0.523	0.000	2173.708	0.000
L32	76.75 - 76.333 (32)	TP24.561x24.478x0.825	1146.608	2189.250	0.524	0.000	2189.250	0.000
L33	76.333 - 76.083 (33)	TP24.611x24.561x0.825	1153.050	2198.600	0.524	0.000	2198.600	0.000
L34	76.083 - 74.25 (34)	TP24.976x24.611x0.8	1200.450	2205.850	0.544	0.000	2205.850	0.000
L35	74.25 - 74 (35)	TP25.026x24.976x0.888	1206.942	2430.833	0.497	0.000	2430.833	0.000
L36	74 - 73.75 (36)	TP25.076x25.026x0.888	1213.433	2441.050	0.497	0.000	2441.050	0.000
L37	73.75 - 73.5 (37)	TP25.125x25.076x0.913	1219.933	2512.542	0.486	0.000	2512.542	0.000
L38	73.5 - 68.5 (38)	TP26.121x25.125x0.875	1351.108	2626.917	0.514	0.000	2626.917	0.000
L39	68.5 - 63.5 (39)	TP27.116x26.121x0.85	1484.508	2768.483	0.536	0.000	2768.483	0.000
L40	63.5 - 60.5 (40)	TP27.714x27.116x0.825	1565.600	2820.475	0.555	0.000	2820.475	0.000
L41	60.5 - 60.25 (41)	TP27.763x27.714x0.825	1572.392	2831.083	0.555	0.000	2831.083	0.000
L42	60.25 - 59.5 (42)	TP27.913x27.763x0.825	1592.808	2863.033	0.556	0.000	2863.033	0.000
L43	59.5 - 59.25 (43)	TP27.962x27.913x0.888	1599.625	3070.117	0.521	0.000	3070.117	0.000

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L44	59.25 - 54.25 (44)	TP28.958x27.962x0.85	1737.108	3176.850	0.547	0.000	3176.850	0.000
L45	54.25 - 45.802 (45)	TP30.64x28.958x0.838	1855.683	3328.592	0.557	0.000	3328.592	0.000
L46	45.802 - 44.802 (46)	TP30.333x29.304x0.838	2003.533	3452.967	0.580	0.000	3452.967	0.000
L47	44.802 - 43.583 (47)	TP30.574x30.333x0.838	2038.592	3510.467	0.581	0.000	3510.467	0.000
L48	43.583 - 43.333 (48)	TP30.624x30.574x0.85	2045.800	3570.392	0.573	0.000	3570.392	0.000
L49	43.333 - 43.166 (49)	TP30.657x30.624x0.85	2050.608	3578.433	0.573	0.000	3578.433	0.000
L50	43.166 - 42.916 (50)	TP30.706x30.657x0.938	2057.825	3925.383	0.524	0.000	3925.383	0.000
L51	42.916 - 39 (51)	TP31.481x30.706x0.913	2171.442	4035.258	0.538	0.000	4035.258	0.000
L52	39 - 38.75 (52)	TP31.531x31.481x0.95	2178.733	4199.433	0.519	0.000	4199.433	0.000
L53	38.75 - 37.166 (53)	TP31.844x31.531x0.938	2225.058	4236.008	0.525	0.000	4236.008	0.000
L54	37.166 - 36.916 (54)	TP31.894x31.844x0.888	2232.392	4042.658	0.552	0.000	4042.658	0.000
L55	36.916 - 34 (55)	TP32.471x31.894x0.888	2318.217	4196.683	0.552	0.000	4196.683	0.000
L56	34 - 33.75 (56)	TP32.52x32.471x0.875	2325.608	4155.650	0.560	0.000	4155.650	0.000
L57	33.75 - 29.75 (57)	TP33.312x32.52x0.863	2355.183	4153.258	0.567	0.000	4153.258	0.000
L58	29.75 - 29.5 (58)	TP33.361x33.312x0.863	2444.200	4311.608	0.567	0.000	4311.608	0.000
L59	29.5 - 24.5 (59)	TP34.351x33.361x0.85	2451.642	4267.175	0.575	0.000	4267.175	0.000
L60	24.5 - 23 (60)	TP34.648x34.351x0.838	2600.917	4472.633	0.582	0.000	4472.633	0.000
L61	23 - 22.75 (61)	TP34.697x34.648x0.963	2645.917	5174.958	0.511	0.000	5174.958	0.000
L62	22.75 - 21.583 (62)	TP34.928x34.697x0.963	2653.425	5190.383	0.511	0.000	5190.383	0.000
L63	21.583 - 21.333 (63)	TP34.978x34.928x0.85	2688.508	4693.900	0.573	0.000	4693.900	0.000
L64	21.333 - 16.333 (64)	TP35.967x34.978x0.838	2696.033	4643.575	0.581	0.000	4643.575	0.000
L65	16.333 - 12.917 (65)	TP36.644x35.967x0.825	2846.983	4851.733	0.587	0.000	4851.733	0.000
L66	12.917 - 12.667 (66)	TP36.693x36.644x0.913	2950.650	5536.417	0.533	0.000	5536.417	0.000
L67	12.667 - 12.5 (67)	TP36.726x36.693x0.913	2958.250	5551.950	0.533	0.000	5551.950	0.000
L68	12.5 - 12.25 (68)	TP36.776x36.726x0.763	2963.333	4706.633	0.630	0.000	4706.633	0.000
L69	12.25 - 12 (69)	TP36.825x36.776x0.763	2970.942	4719.725	0.629	0.000	4719.725	0.000
L70	12 - 11.75 (70)	TP36.874x36.825x0.663	2978.558	4146.442	0.718	0.000	4146.442	0.000
L71	11.75 - 8.5 (71)	TP37.518x36.874x0.65	2986.167	4083.675	0.731	0.000	4083.675	0.000
L72	8.5 - 8.25 (72)	TP37.567x37.518x0.925	3085.517	5887.708	0.524	0.000	5887.708	0.000
L73	8.25 - 7 (73)	TP37.815x37.567x0.913	3093.192	5830.017	0.531	0.000	5830.017	0.000
L74	7 - 6.75 (74)	TP37.864x37.815x0.813	3131.658	5305.175	0.590	0.000	5305.175	0.000
L75	6.75 - 1.75 (75)	TP38.854x37.864x0.788	3139.367	5166.292	0.608	0.000	5166.292	0.000
L76	1.75 - 0 (76)	TP39.2x38.854x0.788	3294.808	5448.700	0.605	0.000	5448.700	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	144.25 - 139.25 (1)	TP12.75x12.75x0.375	6.639	181.071	0.037	0.530	197.003	0.003
L2	139.25 - 134.75 (2)	TP12.75x12.75x0.375	6.804	181.071	0.038	0.530	197.003	0.003
L3	134.75 - 134.25 (3)	TP13.48x13.48x0.375	6.821	191.752	0.036	0.530	220.931	0.002
L4	134.25 - 129.25 (4)	TP14.466x13.48x0.188	11.263	149.201	0.075	1.061	190.015	0.006
L5	129.25 - 124.25 (5)	TP15.452x14.466x0.188	11.432	161.736	0.071	1.059	217.158	0.005
L6	124.25 - 123.416 (6)	TP15.616x15.452x0.188	11.456	163.478	0.070	1.059	221.863	0.005
L7	123.416 - 123.166 (7)	TP15.665x15.616x0.538	11.460	459.502	0.025	1.059	611.454	0.002
L8	123.166 - 118.166 (8)	TP16.651x15.665x0.513	14.545	467.405	0.031	1.058	663.528	0.002
L9	118.166 - 113.166 (9)	TP17.637x16.651x0.488	15.136	472.451	0.032	1.017	712.699	0.001
L10	113.166 - 109.5 (10)	TP18.36x17.637x0.475	19.920	480.074	0.041	1.020	755.248	0.001
L11	109.5 - 109.25 (11)	TP18.409x18.36x0.588	19.929	591.677	0.034	0.582	927.533	0.001
L12	109.25 - 104.75 (12)	TP19.296x18.409x0.563	20.309	595.497	0.034	0.578	981.300	0.001
L13	104.75 - 104.5 (13)	TP19.346x19.296x0.775	20.322	813.314	0.025	0.577	1328.558	0.000
L14	104.5 - 102.416 (14)	TP19.756x19.346x0.763	20.523	818.440	0.025	0.574	1367.417	0.000
L15	102.416 - 102.166 (15)	TP19.806x19.756x0.563	20.538	611.691	0.034	0.573	1035.400	0.001
L16	102.166 - 98.75 (16)	TP20.479x19.806x0.55	23.753	619.420	0.038	0.568	1085.858	0.001
L17	98.75 - 98.5 (17)	TP20.528x20.479x0.838	23.761	931.933	0.025	0.567	1614.175	0.000
L18	98.5 - 97.5 (18)	TP20.726x20.528x0.838	23.866	941.264	0.025	0.566	1646.667	0.000
L19	97.5 - 97.25 (19)	TP20.775x20.726x0.75	23.883	848.721	0.028	0.565	1494.983	0.000
L20	97.25 - 92 (20)	TP21.81x20.775x0.738	24.055	849.049	0.028	0.565	1521.492	0.000
L21	92 - 90.552 (21)	TP21.73x20.735x0.8	24.637	946.229	0.026	0.568	1742.083	0.000
L22	90.552 - 89.25 (22)	TP21.989x21.73x0.775	24.752	929.108	0.027	0.568	1733.792	0.000
L23	89.25 - 89 (23)	TP22.039x21.989x1	24.761	1188.950	0.021	0.567	2200.350	0.000
L24	89 - 88.25 (24)	TP22.189x22.039x0.975	24.842	1168.830	0.021	0.566	2181.042	0.000
L25	88.25 - 88 (25)	TP22.238x22.189x0.763	24.860	925.385	0.027	0.565	1748.125	0.000
L26	88 - 87.833 (26)	TP22.272x22.238x0.763	24.875	926.817	0.027	0.565	1753.542	0.000
L27	87.833 - 87.583 (27)	TP22.321x22.272x0.675	24.895	825.698	0.030	0.565	1572.192	0.000
L28	87.583 - 82.583 (28)	TP23.317x22.321x0.65	25.303	832.602	0.030	0.562	1660.075	0.000
L29	82.583 - 77.583 (29)	TP24.312x23.317x0.625	25.681	836.622	0.031	0.562	1743.192	0.000
L30	77.583 - 77 (30)	TP24.428x24.312x0.625	25.715	840.722	0.031	0.562	1760.317	0.000
L31	77 - 76.75 (31)	TP24.478x24.428x0.825	25.729	1102.750	0.023	0.562	2294.383	0.000
L32	76.75 - 76.333 (32)	TP24.561x24.478x0.825	25.768	1106.620	0.023	0.562	2310.525	0.000
L33	76.333 - 76.083 (33)	TP24.611x24.561x0.825	25.788	1108.940	0.023	0.562	2320.225	0.000

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L34	76.083 - 74.25 (34)	TP24.976x24.611x0.8	25.977	1092.970	0.024	0.567	2324.292	0.000
L35	74.25 - 74 (35)	TP25.026x24.976x0.888	25.971	1210.620	0.021	0.568	2570.467	0.000
L36	74 - 73.75 (36)	TP25.076x25.026x0.888	25.993	1213.110	0.021	0.569	2581.075	0.000
L37	73.75 - 73.5 (37)	TP25.125x25.076x0.913	26.017	1248.560	0.021	0.571	2659.225	0.000
L38	73.5 - 68.5 (38)	TP26.121x25.125x0.875	26.482	1248.330	0.021	0.595	2772.167	0.000
L39	68.5 - 63.5 (39)	TP27.116x26.121x0.85	26.922	1261.680	0.021	0.620	2915.075	0.000
L40	63.5 - 60.5 (40)	TP27.714x27.116x0.825	27.186	1253.590	0.022	0.635	2964.992	0.000
L41	60.5 - 60.25 (41)	TP27.763x27.714x0.825	27.193	1255.910	0.022	0.636	2975.975	0.000
L42	60.25 - 59.5 (42)	TP27.913x27.763x0.825	27.269	1262.870	0.022	0.640	3009.058	0.000
L43	59.5 - 59.25 (43)	TP27.962x27.913x0.888	27.283	1357.910	0.020	0.641	3233.983	0.000
L44	59.25 - 54.25 (44)	TP28.958x27.962x0.85	27.742	1350.150	0.021	0.668	3338.192	0.000
L45	54.25 - 45.802 (45)	TP30.64x28.958x0.838	28.103	1370.930	0.020	0.691	3493.133	0.000
L46	45.802 - 44.802 (46)	TP30.333x29.304x0.838	28.742	1395.960	0.021	0.533	3621.825	0.000
L47	44.802 - 43.583 (47)	TP30.574x30.333x0.838	28.839	1407.380	0.020	0.533	3681.317	0.000
L48	43.583 - 43.333 (48)	TP30.624x30.574x0.85	28.836	1430.160	0.020	0.533	3745.558	0.000
L49	43.333 - 43.166 (49)	TP30.657x30.624x0.85	28.847	1431.750	0.020	0.533	3753.883	0.000
L50	43.166 - 42.916 (50)	TP30.706x30.657x0.938	28.868	1577.120	0.018	0.533	4129.758	0.000
L51	42.916 - 39 (51)	TP31.481x30.706x0.913	29.196	1576.320	0.019	0.534	4238.592	0.000
L52	39 - 38.75 (52)	TP31.531x31.481x0.95	29.193	1641.740	0.018	0.535	4416.233	0.000
L53	38.75 - 37.166 (53)	TP31.844x31.531x0.938	29.345	1637.410	0.018	0.536	4451.542	0.000
L54	37.166 - 36.916 (54)	TP31.894x31.844x0.888	29.335	1555.070	0.019	0.536	4241.300	0.000
L55	36.916 - 34 (55)	TP32.471x31.894x0.888	29.575	1584.020	0.019	0.539	4400.650	0.000
L56	34 - 33.75 (56)	TP32.52x32.471x0.875	29.565	1564.770	0.019	0.539	4355.717	0.000
L57	33.75 - 29.75 (57)	TP33.312x32.52x0.863	29.675	1562.320	0.019	0.539	4350.783	0.000
L58	29.75 - 29.5 (58)	TP33.361x33.312x0.863	29.760	1584.020	0.019	0.539	4514.475	0.000
L59	29.5 - 24.5 (59)	TP34.351x33.361x0.85	29.820	1571.170	0.019	0.539	4466.058	0.000
L60	24.5 - 23 (60)	TP34.648x34.351x0.838	30.061	1600.180	0.019	0.647	4675.825	0.000
L61	23 - 22.75 (61)	TP34.697x34.648x0.963	30.041	1834.900	0.016	0.647	5428.967	0.000
L62	22.75 - 21.583 (62)	TP34.928x34.697x0.963	30.116	1847.470	0.016	0.647	5444.933	0.000
L63	21.583 - 21.333 (63)	TP34.978x34.928x0.85	30.107	1639.310	0.018	0.647	4906.925	0.000
L64	21.333 - 16.333 (64)	TP35.967x34.978x0.838	30.161	1625.160	0.019	0.647	4852.367	0.000
L65	16.333 - 12.917 (65)	TP36.644x35.967x0.825	30.351	1648.900	0.018	0.647	5064.658	0.000
L66	12.917 - 12.667 (66)	TP36.693x36.644x0.913	30.429	1845.070	0.016	0.647	5791.033	0.000
L67	12.667 - 12.5 (67)	TP36.726x36.693x0.913	30.434	1846.770	0.016	0.647	5807.083	0.000
L68	12.5 - 12.25 (68)	TP36.776x36.726x0.763	30.446	1551.790	0.020	0.647	4902.275	0.000

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L69	12.25 - 12 (69)	TP36.825x36.776x0.763	30.455	1553.920	0.020	0.647	4915.775	0.000
L70	12 - 11.75 (70)	TP36.874x36.825x0.663	30.462	1355.720	0.022	0.647	4306.608	0.000
L71	11.75 - 8.5 (71)	TP37.518x36.874x0.65	30.565	1338.480	0.023	0.647	4239.850	0.000
L72	8.5 - 8.25 (72)	TP37.567x37.518x0.925	30.712	1915.390	0.016	0.617	6156.925	0.000
L73	8.25 - 7 (73)	TP37.815x37.567x0.913	30.860	1902.900	0.016	0.614	6094.317	0.000
L74	7 - 6.75 (74)	TP37.864x37.815x0.813	30.861	1701.230	0.018	0.603	5529.792	0.000
L75	6.75 - 1.75 (75)	TP38.854x37.864x0.788	30.974	1658.800	0.019	0.601	5381.242	0.000
L76	1.75 - 0 (76)	TP39.2x38.854x0.788	31.530	1709.450	0.018	0.579	5672.325	0.000

Pole Interaction Design Data

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	144.25 - 139.25 (1)	0.009	0.136	0.000	0.037	0.003	0.147 ✔	1.050	4.8.2 ✔
L2	139.25 - 134.75 (2)	0.009	0.289	0.000	0.038	0.003	0.300 ✔	1.050	4.8.2 ✔
L3	134.75 - 134.25 (3)	0.009	0.273	0.000	0.036	0.002	0.283 ✔	1.050	4.8.2 ✔
L4	134.25 - 129.25 (4)	0.018	0.547	0.000	0.075	0.006	0.572 ✔	1.050	4.8.2 ✔
L5	129.25 - 124.25 (5)	0.018	0.748	0.000	0.071	0.005	0.771 ✔	1.050	4.8.2 ✔
L6	124.25 - 123.416 (6)	0.017	0.777	0.000	0.070	0.005	0.800 ✔	1.050	4.8.2 ✔
L7	123.416 - 123.166 (7)	0.006	0.293	0.000	0.025	0.002	0.300 ✔	1.050	4.8.2 ✔
L8	123.166 - 118.166 (8)	0.008	0.370	0.000	0.031	0.002	0.379 ✔	1.050	4.8.2 ✔
L9	118.166 - 113.166 (9)	0.009	0.453	0.000	0.032	0.001	0.462 ✔	1.050	4.8.2 ✔
L10	113.166 - 109.5 (10)	0.011	0.507	0.000	0.041	0.001	0.520 ✔	1.050	4.8.2 ✔
L11	109.5 - 109.25 (11)	0.009	0.421	0.000	0.034	0.001	0.431 ✔	1.050	4.8.2 ✔
L12	109.25 - 104.75 (12)	0.009	0.494	0.000	0.034	0.001	0.504 ✔	1.050	4.8.2 ✔
L13	104.75 - 104.5 (13)	0.007	0.373	0.000	0.025	0.000	0.380 ✔	1.050	4.8.2 ✔
L14	104.5 - 102.416 (14)	0.007	0.395	0.000	0.025	0.000	0.402 ✔	1.050	4.8.2 ✔
L15	102.416 - 102.166 (15)	0.009	0.521	0.000	0.034	0.001	0.531 ✔	1.050	4.8.2 ✔
L16	102.166 - 98.75 (16)	0.011	0.570	0.000	0.038	0.001	0.582 ✔	1.050	4.8.2 ✔
L17	98.75 - 98.5 (17)	0.008	0.393	0.000	0.025	0.000	0.401 ✔	1.050	4.8.2 ✔
L18	98.5 - 97.5 (18)	0.008	0.400	0.000	0.025	0.000	0.408 ✔	1.050	4.8.2 ✔
L19	97.5 - 97.25 (19)	0.008	0.443	0.000	0.028	0.000	0.452 ✔	1.050	4.8.2 ✔

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
L20	97.25 - 92 (20)	0.009	0.463	0.000	0.028	0.000	0.472 ✔	1.050	4.8.2 ✔
L21	92 - 90.552 (21)	0.008	0.479	0.000	0.026	0.000	0.488 ✔	1.050	4.8.2 ✔
L22	90.552 - 89.25 (22)	0.009	0.500	0.000	0.027	0.000	0.510 ✔	1.050	4.8.2 ✔
L23	89.25 - 89 (23)	0.007	0.401	0.000	0.021	0.000	0.409 ✔	1.050	4.8.2 ✔
L24	89 - 88.25 (24)	0.007	0.413	0.000	0.021	0.000	0.421 ✔	1.050	4.8.2 ✔
L25	88.25 - 88 (25)	0.009	0.514	0.000	0.027	0.000	0.524 ✔	1.050	4.8.2 ✔
L26	88 - 87.833 (26)	0.009	0.515	0.000	0.027	0.000	0.525 ✔	1.050	4.8.2 ✔
L27	87.833 - 87.583 (27)	0.010	0.576	0.000	0.030	0.000	0.587 ✔	1.050	4.8.2 ✔
L28	87.583 - 82.583 (28)	0.010	0.624	0.000	0.030	0.000	0.635 ✔	1.050	4.8.2 ✔
L29	82.583 - 77.583 (29)	0.011	0.669	0.000	0.031	0.000	0.681 ✔	1.050	4.8.2 ✔
L30	77.583 - 77 (30)	0.011	0.672	0.000	0.031	0.000	0.683 ✔	1.050	4.8.2 ✔
L31	77 - 76.75 (31)	0.008	0.523	0.000	0.023	0.000	0.531 ✔	1.050	4.8.2 ✔
L32	76.75 - 76.333 (32)	0.008	0.524	0.000	0.023	0.000	0.532 ✔	1.050	4.8.2 ✔
L33	76.333 - 76.083 (33)	0.008	0.524	0.000	0.023	0.000	0.533 ✔	1.050	4.8.2 ✔
L34	76.083 - 74.25 (34)	0.008	0.544	0.000	0.024	0.000	0.553 ✔	1.050	4.8.2 ✔
L35	74.25 - 74 (35)	0.008	0.497	0.000	0.021	0.000	0.505 ✔	1.050	4.8.2 ✔
L36	74 - 73.75 (36)	0.008	0.497	0.000	0.021	0.000	0.505 ✔	1.050	4.8.2 ✔
L37	73.75 - 73.5 (37)	0.007	0.486	0.000	0.021	0.000	0.493 ✔	1.050	4.8.2 ✔
L38	73.5 - 68.5 (38)	0.008	0.514	0.000	0.021	0.000	0.523 ✔	1.050	4.8.2 ✔
L39	68.5 - 63.5 (39)	0.008	0.536	0.000	0.021	0.000	0.545 ✔	1.050	4.8.2 ✔
L40	63.5 - 60.5 (40)	0.008	0.555	0.000	0.022	0.000	0.564 ✔	1.050	4.8.2 ✔
L41	60.5 - 60.25 (41)	0.008	0.555	0.000	0.022	0.000	0.564 ✔	1.050	4.8.2 ✔
L42	60.25 - 59.5 (42)	0.008	0.556	0.000	0.022	0.000	0.565 ✔	1.050	4.8.2 ✔
L43	59.5 - 59.25 (43)	0.008	0.521	0.000	0.020	0.000	0.529 ✔	1.050	4.8.2 ✔
L44	59.25 - 54.25 (44)	0.008	0.547	0.000	0.021	0.000	0.555 ✔	1.050	4.8.2 ✔
L45	54.25 - 45.802 (45)	0.008	0.557	0.000	0.020	0.000	0.566 ✔	1.050	4.8.2 ✔

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
L46	45.802 - 44.802 (46)	0.009	0.580	0.000	0.021	0.000	0.590 ✔	1.050	4.8.2 ✔
L47	44.802 - 43.583 (47)	0.009	0.581	0.000	0.020	0.000	0.590 ✔	1.050	4.8.2 ✔
L48	43.583 - 43.333 (48)	0.009	0.573	0.000	0.020	0.000	0.582 ✔	1.050	4.8.2 ✔
L49	43.333 - 43.166 (49)	0.009	0.573	0.000	0.020	0.000	0.582 ✔	1.050	4.8.2 ✔
L50	43.166 - 42.916 (50)	0.008	0.524	0.000	0.018	0.000	0.533 ✔	1.050	4.8.2 ✔
L51	42.916 - 39 (51)	0.008	0.538	0.000	0.019	0.000	0.547 ✔	1.050	4.8.2 ✔
L52	39 - 38.75 (52)	0.008	0.519	0.000	0.018	0.000	0.527 ✔	1.050	4.8.2 ✔
L53	38.75 - 37.166 (53)	0.008	0.525	0.000	0.018	0.000	0.534 ✔	1.050	4.8.2 ✔
L54	37.166 - 36.916 (54)	0.009	0.552	0.000	0.019	0.000	0.561 ✔	1.050	4.8.2 ✔
L55	36.916 - 34 (55)	0.009	0.552	0.000	0.019	0.000	0.561 ✔	1.050	4.8.2 ✔
L56	34 - 33.75 (56)	0.009	0.560	0.000	0.019	0.000	0.569 ✔	1.050	4.8.2 ✔
L57	33.75 - 29.75 (57)	0.009	0.567	0.000	0.019	0.000	0.576 ✔	1.050	4.8.2 ✔
L58	29.75 - 29.5 (58)	0.009	0.567	0.000	0.019	0.000	0.576 ✔	1.050	4.8.2 ✔
L59	29.5 - 24.5 (59)	0.009	0.575	0.000	0.019	0.000	0.584 ✔	1.050	4.8.2 ✔
L60	24.5 - 23 (60)	0.009	0.582	0.000	0.019	0.000	0.591 ✔	1.050	4.8.2 ✔
L61	23 - 22.75 (61)	0.008	0.511	0.000	0.016	0.000	0.520 ✔	1.050	4.8.2 ✔
L62	22.75 - 21.583 (62)	0.008	0.511	0.000	0.016	0.000	0.520 ✔	1.050	4.8.2 ✔
L63	21.583 - 21.333 (63)	0.009	0.573	0.000	0.018	0.000	0.582 ✔	1.050	4.8.2 ✔
L64	21.333 - 16.333 (64)	0.009	0.581	0.000	0.019	0.000	0.590 ✔	1.050	4.8.2 ✔
L65	16.333 - 12.917 (65)	0.010	0.587	0.000	0.018	0.000	0.597 ✔	1.050	4.8.2 ✔
L66	12.917 - 12.667 (66)	0.009	0.533	0.000	0.016	0.000	0.542 ✔	1.050	4.8.2 ✔
L67	12.667 - 12.5 (67)	0.009	0.533	0.000	0.016	0.000	0.542 ✔	1.050	4.8.2 ✔
L68	12.5 - 12.25 (68)	0.011	0.630	0.000	0.020	0.000	0.641 ✔	1.050	4.8.2 ✔
L69	12.25 - 12 (69)	0.011	0.629	0.000	0.020	0.000	0.640 ✔	1.050	4.8.2 ✔
L70	12 - 11.75 (70)	0.012	0.718	0.000	0.022	0.000	0.731 ✔	1.050	4.8.2 ✔
L71	11.75 - 8.5 (71)	0.012	0.731	0.000	0.023	0.000	0.744 ✔	1.050	4.8.2 ✔

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L72	8.5 - 8.25 (72)	0.009	0.524	0.000	0.016	0.000	0.533 ✔	1.050	4.8.2 ✔
L73	8.25 - 7 (73)	0.009	0.531	0.000	0.016	0.000	0.540 ✔	1.050	4.8.2 ✔
L74	7 - 6.75 (74)	0.010	0.590	0.000	0.018	0.000	0.601 ✔	1.050	4.8.2 ✔
L75	6.75 - 1.75 (75)	0.010	0.608	0.000	0.019	0.000	0.618 ✔	1.050	4.8.2 ✔
L76	1.75 - 0 (76)	0.011	0.605	0.000	0.018	0.000	0.616 ✔	1.050	4.8.2 ✔

Section Capacity Table

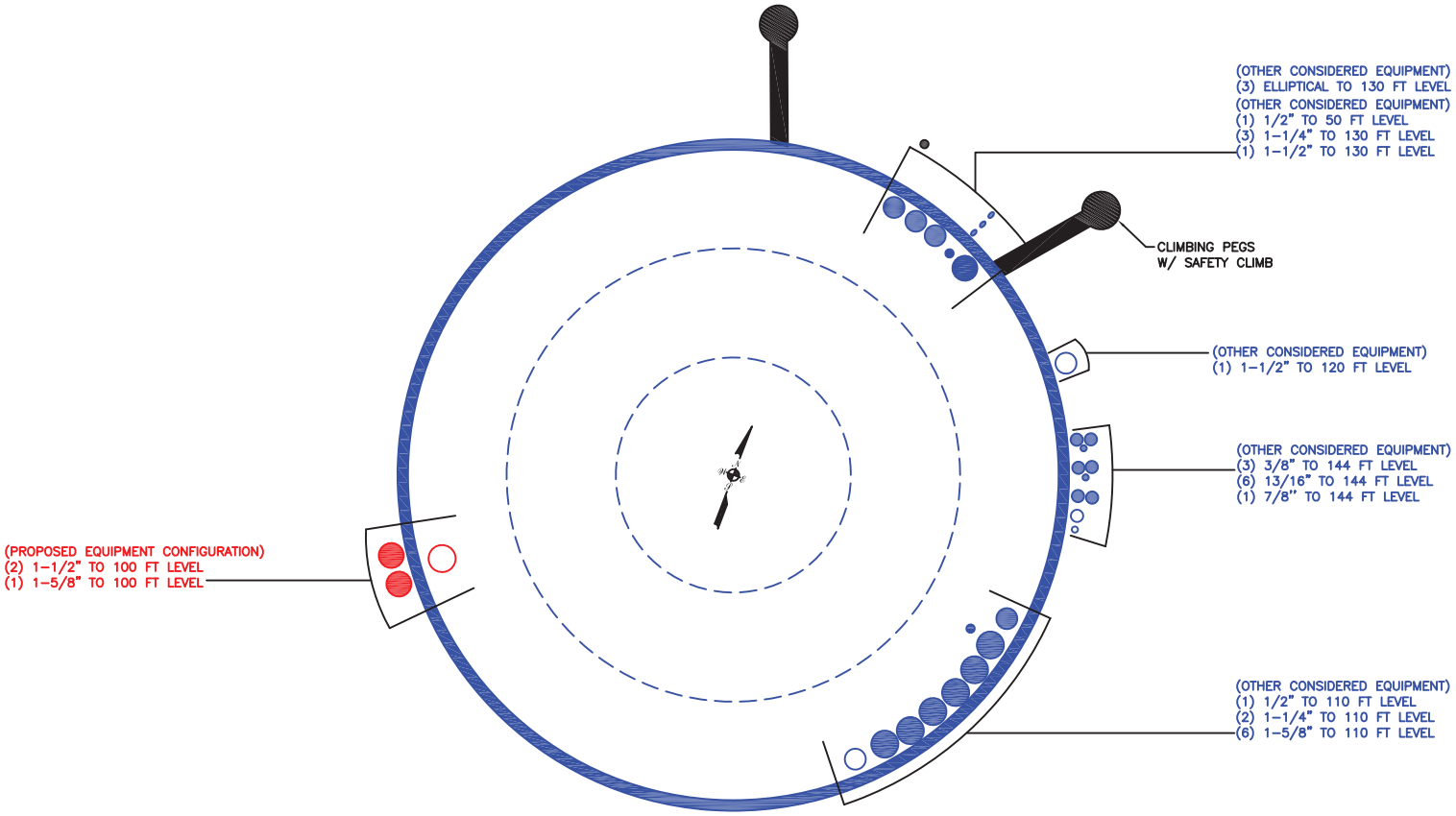
Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	144.25 - 139.25	Pole	TP12.75x12.75x0.375	1	-5.140	633.747	**	**
L2	139.25 - 134.75	Pole	TP12.75x12.75x0.375	2	-5.424	633.747	**	**
L3	134.75 - 134.25	Pole	TP13.48x13.48x0.375	3	-5.461	671.132	**	**
L4	134.25 - 129.25	Pole	TP14.466x13.48x0.188	4	-9.099	529.516	**	**
L5	129.25 - 124.25	Pole	TP15.452x14.466x0.188	5	-9.446	566.074	**	**
L6	124.25 - 123.416	Pole	TP15.616x15.452x0.188	6	-9.511	572.172	**	**
L7	123.416 - 123.166	Pole	TP15.665x15.616x0.538	7	-9.550	1608.253	**	**
L8	123.166 - 118.166	Pole	TP16.651x15.665x0.513	8	-12.985	1635.921	**	**
L9	118.166 - 113.166	Pole	TP17.637x16.651x0.488	9	-13.499	1653.582	**	**
L10	113.166 - 109.5	Pole	TP18.36x17.637x0.475	10	-17.304	1680.262	**	**
L11	109.5 - 109.25	Pole	TP18.409x18.36x0.588	11	-17.362	2070.873	**	**
L12	109.25 - 104.75	Pole	TP19.296x18.409x0.563	12	-18.098	2084.239	**	**
L13	104.75 - 104.5	Pole	TP19.346x19.296x0.775	13	-18.166	2846.602	**	**
L14	104.5 - 102.416	Pole	TP19.756x19.346x0.763	14	-18.599	2864.536	**	**
L15	102.416 - 102.166	Pole	TP19.806x19.756x0.563	15	-18.658	2140.918	**	**
L16	102.166 - 98.75	Pole	TP20.479x19.806x0.55	16	-23.276	2167.966	**	**
L17	98.75 - 98.5	Pole	TP20.528x20.479x0.838	17	-23.360	3261.762	**	**
L18	98.5 - 97.5	Pole	TP20.726x20.528x0.838	18	-23.611	3294.427	**	**
L19	97.5 - 97.25	Pole	TP20.775x20.726x0.75	19	-23.684	2970.523	**	**
L20	97.25 - 92	Pole	TP21.81x20.775x0.738	20	-24.092	2971.668	**	**
L21	92 - 90.552	Pole	TP21.73x20.735x0.8	21	-26.131	3311.805	**	**
L22	90.552 - 89.25	Pole	TP21.989x21.73x0.775	22	-26.493	3251.881	**	**
L23	89.25 - 89	Pole	TP22.039x21.989x1	23	-26.589	4161.307	**	**
L24	89 - 88.25	Pole	TP22.189x22.039x0.975	24	-26.816	4090.894	**	**
L25	88.25 - 88	Pole	TP22.238x22.189x0.763	25	-26.890	3238.851	**	**
L26	88 - 87.833	Pole	TP22.272x22.238x0.763	26	-26.936	3243.859	**	**
L27	87.833 - 87.583	Pole	TP22.321x22.272x0.675	27	-26.997	2889.946	**	**
L28	87.583 - 82.583	Pole	TP23.317x22.321x0.65	28	-28.240	2914.107	**	**
L29	82.583 - 77.583	Pole	TP24.312x23.317x0.625	29	-29.529	2928.177	**	**
L30	77.583 - 77	Pole	TP24.428x24.312x0.625	30	-29.690	2942.530	**	**
L31	77 - 76.75	Pole	TP24.478x24.428x0.825	31	-29.774	3859.621	**	**
L32	76.75 - 76.333	Pole	TP24.561x24.478x0.825	32	-29.898	3873.166	**	**
L33	76.333 - 76.083	Pole	TP24.611x24.561x0.825	33	-29.973	3881.293	**	**
L34	76.083 - 74.25	Pole	TP24.976x24.611x0.8	34	-30.480	3825.381	**	**
L35	74.25 - 74	Pole	TP25.026x24.976x0.888	35	-30.582	4237.159	**	**
L36	74 - 73.75	Pole	TP25.076x25.026x0.888	36	-30.658	4245.895	**	**
L37	73.75 - 73.5	Pole	TP25.125x25.076x0.913	37	-30.737	4369.974	**	**

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L38	73.5 - 68.5	Pole	TP26.121x25.125x0.875	38	-32.297	4369.165	**	**
L39	68.5 - 63.5	Pole	TP27.116x26.121x0.85	39	-33.893	4415.901	**	**
L40	63.5 - 60.5	Pole	TP27.714x27.116x0.825	40	-34.865	4387.561	**	**
L41	60.5 - 60.25	Pole	TP27.763x27.714x0.825	41	-34.959	4395.688	**	**
L42	60.25 - 59.5	Pole	TP27.913x27.763x0.825	42	-35.197	4420.048	**	**
L43	59.5 - 59.25	Pole	TP27.962x27.913x0.888	43	-35.291	4752.667	**	**
L44	59.25 - 54.25	Pole	TP28.958x27.962x0.85	44	-36.994	4725.525	**	**
L45	54.25 - 45.802	Pole	TP30.64x28.958x0.838	45	-38.471	4798.269	**	**
L46	45.802 - 44.802	Pole	TP30.333x29.304x0.838	46	-41.597	4885.860	**	**
L47	44.802 - 43.583	Pole	TP30.574x30.333x0.838	47	-42.034	4925.823	**	**
L48	43.583 - 43.333	Pole	TP30.624x30.574x0.85	48	-42.145	5005.560	**	**
L49	43.333 - 43.166	Pole	TP30.657x30.624x0.85	49	-42.210	5011.114	**	**
L50	43.166 - 42.916	Pole	TP30.706x30.657x0.938	50	-42.308	5519.913	**	**
L51	42.916 - 39	Pole	TP31.481x30.706x0.913	51	-43.846	5517.109	**	**
L52	39 - 38.75	Pole	TP31.531x31.481x0.95	52	-43.966	5746.093	**	**
L53	38.75 - 37.166	Pole	TP31.844x31.531x0.938	53	-44.607	5730.931	**	**
L54	37.166 - 36.916	Pole	TP31.894x31.844x0.888	54	-44.727	5442.748	**	**
L55	36.916 - 34	Pole	TP32.471x31.894x0.888	55	-45.896	5544.052	**	**
L56	34 - 33.75	Pole	TP32.52x32.471x0.875	56	-46.013	5476.695	**	**
L57	33.75 - 29.75	Pole	TP33.312x32.52x0.863	57	-46.423	5434.348	**	**
L58	29.75 - 29.5	Pole	TP33.361x33.312x0.863	58	-47.599	5535.642	**	**
L59	29.5 - 24.5	Pole	TP34.351x33.361x0.85	59	-47.711	5465.838	**	**
L60	24.5 - 23	Pole	TP34.648x34.351x0.838	60	-49.728	5551.444	**	**
L61	23 - 22.75	Pole	TP34.697x34.648x0.963	61	-50.319	6412.738	**	**
L62	22.75 - 21.583	Pole	TP34.928x34.697x0.963	62	-50.441	6422.157	**	**
L63	21.583 - 21.333	Pole	TP34.978x34.928x0.85	63	-50.945	5729.262	**	**
L64	21.333 - 16.333	Pole	TP35.967x34.978x0.838	64	-51.063	5655.279	**	**
L65	16.333 - 12.917	Pole	TP36.644x35.967x0.825	65	-53.199	5734.386	**	**
L66	12.917 - 12.667	Pole	TP36.693x36.644x0.913	66	-54.660	6448.806	**	**
L67	12.667 - 12.5	Pole	TP36.726x36.693x0.913	67	-54.775	6457.731	**	**
L68	12.5 - 12.25	Pole	TP36.776x36.726x0.763	68	-54.855	5423.796	**	**
L69	12.25 - 12	Pole	TP36.825x36.776x0.763	69	-54.961	5431.261	**	**
L70	12 - 11.75	Pole	TP36.874x36.825x0.663	70	-55.067	4738.545	**	**
L71	11.75 - 8.5	Pole	TP37.518x36.874x0.65	71	-55.183	4657.107	**	**
L72	8.5 - 8.25	Pole	TP37.567x37.518x0.925	72	-56.479	6694.800	**	**
L73	8.25 - 7	Pole	TP37.815x37.567x0.913	73	-56.612	6615.514	**	**
L74	7 - 6.75	Pole	TP37.864x37.815x0.813	74	-57.203	5946.349	**	**
L75	6.75 - 1.75	Pole	TP38.854x37.864x0.788	75	-57.323	5774.989	**	**
L76	1.75 - 0	Pole	TP39.2x38.854x0.788	76	-59.524	5929.119	**	**
							Summary	
						Pole (L6)	**	**
						RATING =	**	**

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

APPENDIX B

BASE LEVEL DRAWING



BUSINESS UNIT: 876317

APPENDIX C

ADDITIONAL CALCULATIONS

CCIpole

per TIA-222- H

Site BU: 876317

Work Order: 2108881

CROWN CASTLE

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
1	144.25	9.5	0	0	12.75	12.75	0.375		A500-46
2	134.75	0.5	0	0	13.48	13.48	0.375		A500-46
3	134.25	42.25	3.552	12	13.48	21.81	0.1875	Auto	A572-65
4	95.552	49.75	4.198	12	20.73	30.64	0.25	Auto	A572-65
5	50	50	0	12	29.30	39.2	0.3125	Auto	A572-65

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	0	29.75	plate	PL 6.875x1.25 BW	2				E1								E1
2	0	12.917	plate	PL 6.875x1.25 (14)	2							E1		E1			
3	12.917	29.75	plate	PL 6.875x1.25	1								E1				
4	29.75	59.5	plate	PL 6.625x1.25	3				E1				E1				E1
5	59.5	89.25	plate	PL 5.5x1.25	3				E1				E1				E1
6	89.25	98.75	plate	PL 3.625x1.25	3				E1				E1				E1
7	12.5	39	plate	PL 4x1	1	E2											
8	12.5	34	plate	PL 4x1	2						E2				E2		
9	34	60.5	plate	PL 4x1	3			E2				E2				E2	
10	60.5	77	plate	PL 4x1	3		E2				E2				E2		
11	88.25	104.75	plate	PL 4x1	3		E2				E2				E2		
12	0	8.5	plate	TS 1x7	3			3			3				3		
13	7	23	plate	CCI-SFP-060100	2					E3						E3	
14	12	23	plate	CCI-SFP-060100	1		E3										
15	21.583	37.166	plate	CCI-SFP-045100	1									E3			
16	23	37.166	plate	CCI-SFP-045100	1					E3							
17	23	43.583	plate	CCI-SFP-045100	1		E3										
18	37.166	43.166	plate	CCI-SFP-060100	2					E3				E3			
19	43.166	73.75	plate	CCI-SFP-045100	1									E3			
20	46.75	73.75	plate	CCI-SFP-045100	1	E3											
21	43.166	74.25	plate	CCI-SFP-040075	1					E3							
22	73.75	102.416	plate	CCI-SFP-040075	2	E3								E3			
23	76.333	89.25	plate	CCI-SFP-040075	1			E3									
24	87.833	102.416	plate	CCI-AFP-050125	1							E3					
25	102.416	123.416	plate	CCI-AFP-045100	2	E3								E3			
26	102.416	123.416	plate	CCI-AFP-045100	1					E3							
27	97.5	109.5	plate	CCI-AFP-040075	1			E3									
28	102.416	109.5	plate	CCI-AFP-040075	1											E3	
29																	

Reinforcement Details

	B (in)	H (in)	Gross Area (in^2)	Pole Face to Centroid (in)	Bottom Termination Type	Bottom Termination Length (in)	Top Termination Type	Top Termination Length (in)	Lu (in)	Net Area (in2)	Bolt Hole Size (in)	Reinforcement Material
1	6.875	1.25	8.59375	0.625	Welded	n/a	PC 8.8 - M20 (100)	36.000	15.000	6.953	1.2500	A572-65
2	6.875	1.25	8.59375	0.625	Welded	n/a	PC 8.8 - M20 (100)	42.000	15.000	6.953	1.2500	A572-65
3	6.875	1.25	8.59375	0.625	PC 8.8 - M20 (100)	42	PC 8.8 - M20 (100)	36.000	15.000	6.953	1.2500	A572-65
4	6.625	1.25	8.28125	0.625	None	n/a	PC 8.8 - M20 (100)	30.000	18.000	6.641	1.2500	A572-65
5	5.5	1.25	6.875	0.625	None	n/a	PC 8.8 - M20 (100)	18.000	18.000	5.234	1.2500	A572-65
6	3.625	1.25	4.53125	0.625	None	n/a	PC 8.8 - M20 (100)	15.000	24.000	2.891	1.2500	A572-65
7	4	1	4	0.5	PC 8.8 - M20 (100)	21	PC 8.8 - M20 (100)	21.000	20.000	2.750	1.1875	A572-65
8	4	1	4	0.5	PC 8.8 - M20 (100)	21	PC 8.8 - M20 (100)	21.000	20.000	2.750	1.1875	A572-65
9	4	1	4	0.5	PC 8.8 - M20 (100)	21	PC 8.8 - M20 (100)	21.000	20.000	2.750	1.1875	A572-65
10	4	1	4	0.5	PC 8.8 - M20 (100)	21	PC 8.8 - M20 (100)	21.000	20.000	2.750	1.1875	A572-65
11	4	1	4	0.5	PC 8.8 - M20 (100)	21	PC 8.8 - M20 (100)	21.000	20.000	2.750	1.1875	A572-65
12	1	7	7	3.5	Welded	n/a	Welded	0.000	0.750	7.000	0.0000	A572-65
13	6	1	6	0.5	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	16.000	4.750	1.1875	A572-65
14	6	1	6	0.5	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	16.000	4.750	1.1875	A572-65
15	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
16	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
17	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
18	6	1	6	0.5	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	16.000	4.750	1.1875	A572-65
19	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
20	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
21	4	0.75	3	0.375	PC 8.8 - M20 (100)	12	PC 8.8 - M20 (100)	12.000	16.000	2.063	1.1875	A572-65
22	4	0.75	3	0.375	PC 8.8 - M20 (100)	12	PC 8.8 - M20 (100)	12.000	16.000	2.063	1.1875	A572-65
23	4	0.75	3	0.375	PC 8.8 - M20 (100)	12	PC 8.8 - M20 (100)	12.000	16.000	2.063	1.1875	A572-65
24	5	1.25	6.25	0.625	PC 8.8 - M20 (100)	30	PC 8.8 - M20 (100)	30.000	23.000	4.688	1.1875	A572-65
25	4.5	1	4.5	0.5	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	20.000	3.250	1.1875	A572-65
26	4.5	1	4.5	0.5	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	20.000	3.250	1.1875	A572-65
27	4	0.75	3	0.375	PC 8.8 - M20 (100)	18	PC 8.8 - M20 (100)	18.000	16.000	2.063	1.1875	A572-65
28	4	0.75	3	0.375	PC 8.8 - M20 (100)	18	PC 8.8 - M20 (100)	18.000	16.000	2.063	1.1875	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)
PL 6.875x1.25 BW	Top	12	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	-	-	-	-	70	None	-	-	-	-	-	-	-
PL 6.875x1.25 (14)	Top	14	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	-	-	-	-	70	None	-	-	-	-	-	-	-
PL 6.875x1.25	Top	12	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	14	N	3	3	0	-	-	-	-	-	-	-	-
PL 6.625x1.25	Top	10	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	-	-	-	-	70	None	-	-	-	-	-	-	-
PL 5.5x1.25	Top	6	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	-	-	-	-	70	None	-	-	-	-	-	-	-
PL 3.625x1.25	Top	5	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	-	-	-	-	70	None	-	-	-	-	-	-	-
PL 4x1	Top	7	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	7	N	3	3	0	-	-	-	-	-	-	-	-
TS 1x7	Top	0	-	0	0	80	None	-	-	-	-	125.25	0.313	-
	Bottom	-	-	-	-	80	CJP Groove	12.5	0.5	45	0.3125	-	-	-

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	144.25 - 139.25	5		0	12.750	12.750	0.375	A500-46	1.000
2	139.25 - 134.75	4.5	0	0	12.750	12.750	0.375	A500-46	1.000
3	134.75 - 134.25	0.5	0	0	13.480	13.480	0.375	A500-46	1.000
4	134.25 - 129.25	5		12	13.480	14.466	0.1875	A572-65	1.000
5	129.25 - 124.25	5		12	14.466	15.452	0.1875	A572-65	1.000
6	124.25 - 123.416	0.834		12	15.452	15.616	0.1875	A572-65	1.000
7	123.416 - 123.166	0.25		12	15.616	15.665	0.5375	A572-65	0.873
8	123.166 - 118.166	5		12	15.665	16.651	0.5125	A572-65	0.881
9	118.166 - 113.166	5		12	16.651	17.637	0.4875	A572-65	0.894
10	113.166 - 109.5	3.666		12	17.637	18.360	0.475	A572-65	0.895
11	109.5 - 109.25	0.25		12	18.360	18.409	0.5875	A572-65	0.906
12	109.25 - 104.75	4.5		12	18.409	19.296	0.5625	A572-65	0.916
13	104.75 - 104.5	0.25		12	19.296	19.346	0.775	A572-65	0.930
14	104.5 - 102.416	2.084		12	19.346	19.756	0.7625	A572-65	0.930
15	102.416 - 102.166	0.25		12	19.756	19.806	0.5625	A572-65	1.123
16	102.166 - 98.75	3.416		12	19.806	20.479	0.55	A572-65	1.120
17	98.75 - 98.5	0.25		12	20.479	20.528	0.8375	A572-65	1.002
18	98.5 - 97.5	1		12	20.528	20.726	0.8375	A572-65	0.994
19	97.5 - 97.25	0.25		12	20.726	20.775	0.75	A572-65	1.041
20	97.25 - 95.552	5.25	3.552	12	20.775	21.810	0.7375	A572-65	1.044
21	95.552 - 90.552	5		12	20.735	21.730	0.8	A572-65	1.024
22	90.552 - 89.25	1.302		12	21.730	21.989	0.775	A572-65	1.046
23	89.25 - 89	0.25		12	21.989	22.039	1	A572-65	0.967
24	89 - 88.25	0.75		12	22.039	22.189	0.975	A572-65	0.985
25	88.25 - 88	0.25		12	22.189	22.238	0.7625	A572-65	1.017
26	88 - 87.833	0.167		12	22.238	22.272	0.7625	A572-65	1.016
27	87.833 - 87.583	0.25		12	22.272	22.321	0.675	A572-65	1.008
28	87.583 - 82.583	5		12	22.321	23.317	0.65	A572-65	1.017
29	82.583 - 77.583	5		12	23.317	24.312	0.625	A572-65	1.029
30	77.583 - 77	0.583		12	24.312	24.428	0.625	A572-65	1.026
31	77 - 76.75	0.25		12	24.428	24.478	0.825	A572-65	0.974
32	76.75 - 76.333	0.417		12	24.478	24.561	0.825	A572-65	0.971
33	76.333 - 76.083	0.25		12	24.561	24.611	0.825	A572-65	0.923
34	76.083 - 74.25	1.833		12	24.611	24.976	0.8	A572-65	0.941
35	74.25 - 74	0.25		12	24.976	25.026	0.8875	A572-65	0.893
36	74 - 73.75	0.25		12	25.026	25.076	0.8875	A572-65	0.892
37	73.75 - 73.5	0.25		12	25.076	25.125	0.9125	A572-65	0.910
38	73.5 - 68.5	5		12	25.125	26.121	0.875	A572-65	0.921
39	68.5 - 63.5	5		12	26.121	27.116	0.85	A572-65	0.922
40	63.5 - 60.5	3		12	27.116	27.714	0.825	A572-65	0.935
41	60.5 - 60.25	0.25		12	27.714	27.763	0.825	A572-65	0.934
42	60.25 - 59.5	0.75		12	27.763	27.913	0.825	A572-65	0.931
43	59.5 - 59.25	0.25		12	27.913	27.962	0.8875	A572-65	0.920
44	59.25 - 54.25	5		12	27.962	28.958	0.85	A572-65	0.936
45	54.25 - 50	8.448	4.198	12	28.958	30.640	0.8375	A572-65	0.931
46	50 - 44.802	5.198		12	29.304	30.333	0.8375	A572-65	0.938
47	44.802 - 43.583	1.219		12	30.333	30.574	0.8375	A572-65	0.933
48	43.583 - 43.333	0.25		12	30.574	30.624	0.85	A572-65	0.975
49	43.333 - 43.166	0.167		12	30.624	30.657	0.85	A572-65	0.974
50	43.166 - 42.916	0.25		12	30.657	30.706	0.9375	A572-65	0.935
51	42.916 - 39	3.916		12	30.706	31.481	0.9125	A572-65	0.944
52	39 - 38.75	0.25		12	31.481	31.531	0.95	A572-65	0.950
53	38.75 - 37.166	1.584		12	31.531	31.844	0.9375	A572-65	0.956
54	37.166 - 36.916	0.25		12	31.844	31.894	0.8875	A572-65	0.973
55	36.916 - 34	2.916		12	31.894	32.471	0.8875	A572-65	0.961
56	34 - 33.75	0.25		12	32.471	32.520	0.875	A572-65	0.929
57	33.75 - 29.75	4		12	32.520	33.312	0.8625	A572-65	0.928
58	29.75 - 29.5	0.25		12	33.312	33.361	0.8625	A572-65	0.937
59	29.5 - 24.5	5		12	33.361	34.351	0.85	A572-65	0.934
60	24.5 - 23	1.5		12	34.351	34.648	0.8375	A572-65	0.942
61	23 - 22.75	0.25		12	34.648	34.697	0.9625	A572-65	0.908
62	22.75 - 21.583	1.167		12	34.697	34.928	0.9625	A572-65	0.904
63	21.583 - 21.333	0.25		12	34.928	34.978	0.85	A572-65	0.971
64	21.333 - 16.333	5		12	34.978	35.967	0.8375	A572-65	0.968
65	16.333 - 12.917	3.416		12	35.967	36.644	0.825	A572-65	0.971
66	12.917 - 12.667	0.25		12	36.644	36.693	0.9125	A572-65	0.961
67	12.667 - 12.5	0.167		12	36.693	36.726	0.9125	A572-65	0.961
68	12.5 - 12.25	0.25		12	36.726	36.776	0.7625	A572-65	1.008
69	12.25 - 12	0.25		12	36.776	36.825	0.7625	A572-65	1.007
70	12 - 11.75	0.25		12	36.825	36.874	0.6625	A572-65	1.077
71	11.75 - 8.5	3.25		12	36.874	37.518	0.65	A572-65	1.087
72	8.5 - 8.25	0.25		12	37.518	37.567	0.925	A572-65	0.962
73	8.25 - 7	1.25		12	37.567	37.815	0.9125	A572-65	0.970
74	7 - 6.75	0.25		12	37.815	37.864	0.8125	A572-65	0.962
75	6.75 - 1.75	5		12	37.864	38.854	0.7875	A572-65	0.976
76	1.75 - 0	1.75		12	38.854	39.200	0.7875	A572-65	0.971

TNX Section Forces

Increment (ft): 5

	Section Height (ft)	TNX Output P_u (K)	M_{ux} (kip-ft)	V_u (K)
1	144.25 - 139.25	5.11	27.06	6.63
2	139.25 - 134.75	5.42	57.30	6.80
3	134.75 - 134.25	5.46	60.70	6.82
4	134.25 - 129.25	9.10	100.67	11.26
5	129.25 - 124.25	9.45	157.36	11.43
6	124.25 - 123.416	9.51	166.90	11.46
7	123.416 - 123.166	9.55	169.76	11.46
8	123.166 - 118.166	12.98	233.02	14.55
9	118.166 - 113.166	13.50	307.58	15.14
10	113.166 - 109.5	17.30	365.81	19.92
11	109.5 - 109.25	17.36	370.79	19.93
12	109.25 - 104.75	18.10	461.27	20.31
13	104.75 - 104.5	18.17	466.35	20.32
14	104.5 - 102.416	18.60	508.89	20.52
15	102.416 - 102.166	18.66	514.02	20.54
16	102.166 - 98.75	23.28	590.18	23.75
17	98.75 - 98.5	23.36	596.11	23.76
18	98.5 - 97.5	23.61	619.91	23.87
19	97.5 - 97.25	23.68	625.88	23.88
20	97.25 - 95.552	24.09	666.55	24.05
21	95.552 - 90.552	26.13	788.25	24.64
22	90.552 - 89.25	26.49	820.37	24.75
23	89.25 - 89	26.59	826.55	24.76
24	89 - 88.25	26.82	845.15	24.84
25	88.25 - 88	26.89	851.36	24.86
26	88 - 87.833	26.94	855.51	24.88
27	87.833 - 87.583	27.00	861.73	24.89
28	87.583 - 82.583	28.24	987.14	25.30
29	82.583 - 77.583	29.53	1114.48	25.68
30	77.583 - 77	29.69	1129.45	25.71
31	77 - 76.75	29.77	1135.87	25.73
32	76.75 - 76.333	29.90	1146.61	25.77
33	76.333 - 76.083	29.97	1153.05	25.79
34	76.083 - 74.25	30.48	1200.45	25.98
35	74.25 - 74	30.58	1206.94	25.97
36	74 - 73.75	30.66	1213.43	25.99
37	73.75 - 73.5	30.74	1219.93	26.02
38	73.5 - 68.5	32.30	1351.10	26.48
39	68.5 - 63.5	33.89	1484.51	26.92
40	63.5 - 60.5	34.87	1565.60	27.19
41	60.5 - 60.25	34.96	1572.40	27.19
42	60.25 - 59.5	35.20	1592.81	27.27
43	59.5 - 59.25	35.29	1599.63	27.28
44	59.25 - 54.25	36.99	1737.11	27.74
45	54.25 - 50	38.47	1855.68	28.10
46	50 - 44.802	41.60	2003.53	28.74
47	44.802 - 43.583	42.03	2038.59	28.84
48	43.583 - 43.333	42.15	2045.80	28.84
49	43.333 - 43.166	42.21	2050.61	28.85
50	43.166 - 42.916	42.31	2057.82	28.87
51	42.916 - 39	43.85	2171.44	29.20
52	39 - 38.75	43.97	2178.73	29.19
53	38.75 - 37.166	44.61	2225.06	29.34
54	37.166 - 36.916	44.73	2232.39	29.34
55	36.916 - 34	45.90	2318.22	29.57
56	34 - 33.75	46.01	2325.61	29.56
57	33.75 - 29.75	47.58	2444.20	29.77
58	29.75 - 29.5	47.69	2451.64	29.76
59	29.5 - 24.5	49.69	2600.92	29.99
60	24.5 - 23	50.29	2645.91	30.06
61	23 - 22.75	50.42	2653.42	30.04
62	22.75 - 21.583	50.93	2688.51	30.12
63	21.583 - 21.333	51.04	2696.03	30.11
64	21.333 - 16.333	53.17	2846.99	30.30
65	16.333 - 12.917	54.64	2950.65	30.44
66	12.917 - 12.667	54.77	2958.25	30.43
67	12.667 - 12.5	54.85	2963.34	30.43
68	12.5 - 12.25	54.95	2970.94	30.45
69	12.25 - 12	55.06	2978.56	30.45
70	12 - 11.75	55.16	2986.17	30.46
71	11.75 - 8.5	56.46	3085.52	30.72
72	8.5 - 8.25	56.59	3093.19	30.71
73	8.25 - 7	57.18	3131.66	30.86
74	7 - 6.75	57.31	3139.37	30.86
75	6.75 - 1.75	59.49	3294.81	31.35
76	1.75 - 0	60.25	3349.76	31.53

Analysis Results

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
144.25 - 139.25	Pole	TP12.75x12.75x0.375	Pole	13.9%	Pass
139.25 - 134.75	Pole	TP12.75x12.75x0.375	Pole	28.5%	Pass
134.75 - 134.25	Pole	TP13.48x13.48x0.375	Pole	26.9%	Pass
134.25 - 129.25	Pole	TP14.466x13.48x0.1875	Pole	54.2%	Pass
129.25 - 124.25	Pole	TP15.452x14.466x0.1875	Pole	73.2%	Pass
124.25 - 123.42	Pole	TP15.616x15.452x0.1875	Pole	75.9%	Pass
123.42 - 123.17	Pole + Reinf.	TP15.665x15.616x0.5375	Reinf. 25 Tension Rupture	49.5%	Pass
123.17 - 118.17	Pole + Reinf.	TP16.651x15.665x0.5125	Reinf. 25 Tension Rupture	62.6%	Pass
118.17 - 113.17	Pole + Reinf.	TP17.637x16.651x0.4875	Reinf. 25 Tension Rupture	76.1%	Pass
113.17 - 109.5	Pole + Reinf.	TP18.36x17.637x0.475	Reinf. 25 Tension Rupture	85.8%	Pass
109.5 - 109.25	Pole + Reinf.	TP18.409x18.36x0.5875	Reinf. 25 Tension Rupture	72.3%	Pass
109.25 - 104.75	Pole + Reinf.	TP19.296x18.409x0.5625	Reinf. 25 Tension Rupture	84.2%	Pass
104.75 - 104.5	Pole + Reinf.	TP19.346x19.296x0.775	Reinf. 11 Tension Rupture	68.0%	Pass
104.5 - 102.42	Pole + Reinf.	TP19.756x19.346x0.7625	Reinf. 11 Tension Rupture	72.2%	Pass
102.42 - 102.17	Pole + Reinf.	TP19.806x19.756x0.5625	Reinf. 11 Tension Rupture	90.1%	Pass
102.17 - 98.75	Pole + Reinf.	TP20.479x19.806x0.55	Reinf. 11 Tension Rupture	99.1%	Pass
98.75 - 98.5	Pole + Reinf.	TP20.528x20.479x0.8375	Reinf. 6 Bolt-Shaft Bearing	86.7%	Pass
98.5 - 97.5	Pole + Reinf.	TP20.726x20.528x0.8375	Reinf. 6 Tension Rupture	75.4%	Pass
97.5 - 97.25	Pole + Reinf.	TP20.775x20.726x0.75	Reinf. 6 Tension Rupture	87.8%	Pass
97.25 - 95.55	Pole + Reinf.	TP21.81x20.775x0.7375	Reinf. 6 Tension Rupture	91.7%	Pass
95.55 - 90.55	Pole + Reinf.	TP21.73x20.735x0.8	Reinf. 6 Tension Rupture	95.4%	Pass
90.55 - 89.25	Pole + Reinf.	TP21.989x21.73x0.775	Reinf. 6 Tension Rupture	97.7%	Pass
89.25 - 89	Pole + Reinf.	TP22.039x21.989x1	Reinf. 5 Bolt-Shaft Bearing	84.4%	Pass
89 - 88.25	Pole + Reinf.	TP22.189x22.039x0.975	Reinf. 11 Tension Rupture	70.6%	Pass
88.25 - 88	Pole + Reinf.	TP22.238x22.189x0.7625	Reinf. 5 Tension Rupture	80.8%	Pass
88 - 87.83	Pole + Reinf.	TP22.272x22.238x0.7625	Reinf. 5 Tension Rupture	81.0%	Pass
87.83 - 87.58	Pole + Reinf.	TP22.321x22.272x0.675	Reinf. 5 Tension Rupture	85.9%	Pass
87.58 - 82.58	Pole + Reinf.	TP23.317x22.321x0.65	Reinf. 5 Tension Rupture	92.7%	Pass
82.58 - 77.58	Pole + Reinf.	TP24.312x23.317x0.625	Reinf. 5 Tension Rupture	98.7%	Pass
77.58 - 77	Pole + Reinf.	TP24.428x24.312x0.625	Reinf. 5 Tension Rupture	99.4%	Pass
77 - 76.75	Pole + Reinf.	TP24.478x24.428x0.825	Reinf. 10 Tension Rupture	93.2%	Pass
76.75 - 76.33	Pole + Reinf.	TP24.561x24.478x0.825	Reinf. 10 Tension Rupture	93.7%	Pass
76.33 - 76.08	Pole + Reinf.	TP24.611x24.561x0.825	Reinf. 10 Tension Rupture	94.8%	Pass
76.08 - 74.25	Pole + Reinf.	TP24.976x24.611x0.8	Reinf. 10 Tension Rupture	96.8%	Pass
74.25 - 74	Pole + Reinf.	TP25.026x24.976x0.8875	Reinf. 10 Tension Rupture	85.5%	Pass
74 - 73.75	Pole + Reinf.	TP25.076x25.026x0.8875	Reinf. 10 Tension Rupture	85.7%	Pass
73.75 - 73.5	Pole + Reinf.	TP25.125x25.076x0.9125	Reinf. 21 Tension Rupture	84.9%	Pass
73.5 - 68.5	Pole + Reinf.	TP26.121x25.125x0.875	Reinf. 21 Tension Rupture	89.5%	Pass
68.5 - 63.5	Pole + Reinf.	TP27.116x26.121x0.85	Reinf. 21 Tension Rupture	93.7%	Pass
63.5 - 60.5	Pole + Reinf.	TP27.714x27.116x0.825	Reinf. 21 Tension Rupture	96.1%	Pass
60.5 - 60.25	Pole + Reinf.	TP27.763x27.714x0.825	Reinf. 21 Tension Rupture	96.3%	Pass
60.25 - 59.5	Pole + Reinf.	TP27.913x27.763x0.825	Reinf. 21 Tension Rupture	96.9%	Pass
59.5 - 59.25	Pole + Reinf.	TP27.962x27.913x0.8875	Reinf. 21 Tension Rupture	90.6%	Pass
59.25 - 54.25	Pole + Reinf.	TP28.958x27.962x0.85	Reinf. 21 Tension Rupture	94.1%	Pass
54.25 - 50	Pole + Reinf.	TP30.64x28.958x0.8375	Reinf. 21 Tension Rupture	96.9%	Pass
50 - 44.8	Pole + Reinf.	TP30.333x29.304x0.8375	Reinf. 9 Tension Rupture	98.7%	Pass
44.8 - 43.58	Pole + Reinf.	TP30.574x30.333x0.8375	Reinf. 9 Tension Rupture	99.3%	Pass
43.58 - 43.33	Pole + Reinf.	TP30.624x30.574x0.85	Reinf. 9 Tension Rupture	98.4%	Pass
43.33 - 43.17	Pole + Reinf.	TP30.657x30.624x0.85	Reinf. 9 Tension Rupture	98.5%	Pass
43.17 - 42.92	Pole + Reinf.	TP30.706x30.657x0.9375	Reinf. 9 Tension Rupture	93.2%	Pass
42.92 - 39	Pole + Reinf.	TP31.481x30.706x0.9125	Reinf. 9 Tension Rupture	95.1%	Pass
39 - 38.75	Pole + Reinf.	TP31.531x31.481x0.95	Reinf. 9 Tension Rupture	89.9%	Pass
38.75 - 37.17	Pole + Reinf.	TP31.844x31.531x0.9375	Reinf. 9 Tension Rupture	90.6%	Pass
37.17 - 36.92	Pole + Reinf.	TP31.894x31.844x0.8875	Reinf. 9 Tension Rupture	94.1%	Pass
36.92 - 34	Pole + Reinf.	TP32.471x31.894x0.8875	Reinf. 9 Tension Rupture	95.4%	Pass
34 - 33.75	Pole + Reinf.	TP32.52x32.471x0.875	Reinf. 8 Tension Rupture	95.4%	Pass
33.75 - 29.75	Pole + Reinf.	TP33.312x32.52x0.8625	Reinf. 8 Tension Rupture	97.0%	Pass
29.75 - 29.5	Pole + Reinf.	TP33.361x33.312x0.8625	Reinf. 8 Tension Rupture	96.0%	Pass
29.5 - 24.5	Pole + Reinf.	TP34.351x33.361x0.85	Reinf. 8 Tension Rupture	97.8%	Pass
24.5 - 23	Pole + Reinf.	TP34.648x34.351x0.8375	Reinf. 8 Tension Rupture	98.4%	Pass
23 - 22.75	Pole + Reinf.	TP34.697x34.648x0.9625	Reinf. 8 Tension Rupture	91.2%	Pass
22.75 - 21.58	Pole + Reinf.	TP34.928x34.697x0.9625	Reinf. 8 Tension Rupture	91.6%	Pass
21.58 - 21.33	Pole + Reinf.	TP34.978x34.928x0.85	Reinf. 8 Tension Rupture	96.7%	Pass
21.33 - 16.33	Pole + Reinf.	TP35.967x34.978x0.8375	Reinf. 8 Tension Rupture	98.2%	Pass
16.33 - 12.92	Pole + Reinf.	TP36.644x35.967x0.825	Reinf. 8 Tension Rupture	99.2%	Pass
12.92 - 12.67	Pole + Reinf.	TP36.693x36.644x0.9125	Reinf. 7 Tension Rupture	89.9%	Pass
12.67 - 12.5	Pole + Reinf.	TP36.726x36.693x0.9125	Reinf. 7 Tension Rupture	90.0%	Pass
12.5 - 12.25	Pole + Reinf.	TP36.776x36.726x0.7625	Reinf. 14 Tension Rupture	93.3%	Pass
12.25 - 12	Pole + Reinf.	TP36.825x36.776x0.7625	Reinf. 14 Tension Rupture	93.4%	Pass
12 - 11.75	Pole + Reinf.	TP36.874x36.825x0.6625	Reinf. 2 Tension Rupture	95.5%	Pass
11.75 - 8.5	Pole + Reinf.	TP37.518x36.874x0.65	Reinf. 2 Tension Rupture	96.2%	Pass
8.5 - 8.25	Pole + Reinf.	TP37.567x37.518x0.925	Reinf. 1 Tension Rupture	78.9%	Pass
8.25 - 7	Pole + Reinf.	TP37.815x37.567x0.9125	Reinf. 1 Tension Rupture	79.2%	Pass
7 - 6.75	Pole + Reinf.	TP37.864x37.815x0.8125	Reinf. 1 Tension Rupture	91.7%	Pass
6.75 - 1.75	Pole + Reinf.	TP38.854x37.864x0.7875	Reinf. 1 Tension Rupture	92.9%	Pass
1.75 - 0	Pole + Reinf.	TP39.2x38.854x0.7875	Reinf. 1 Tension Rupture	93.3%	Pass
				Summary	
			Pole	85.4%	Pass
			Reinforcement	99.4%	Pass
			Overall	99.4%	Pass

Additional Calculations

Section Elevation (ft)	Moment of Inertia (in^4)			Area (in^2)			% Capacity* (100% Max. Allowable)																										
	Pole	Reinf.	Total	Pole	Reinf.	Total	Pole	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	R16	R17	R18	R19	R20	R21	R22	R23	R24	R25	R26	R27	R28
144.25 - 139.25	279	n/a	279	14.58	n/a	14.58	13.9%																												
139.25 - 134.75	279	n/a	279	14.58	n/a	14.58	28.8%																												
134.75 - 134.25	332	n/a	332	15.44	n/a	15.44	26.9%																												
134.25 - 129.25	225	n/a	225	8.61	n/a	8.61	54.2%																												
129.25 - 124.25	274	n/a	274	9.20	n/a	9.20	73.2%																												
124.25 - 123.42	283	n/a	283	9.30	n/a	9.30	75.9%																												
123.42 - 123.17	286	481	767	9.33	13.50	22.83	27.8%																									49.5%	49.5%		
123.17 - 118.17	344	538	882	9.93	13.50	23.43	35.9%																									62.6%	62.6%		
118.17 - 113.17	410	598	1008	10.52	13.50	24.02	44.6%																									76.1%	76.1%		
113.17 - 109.5	463	644	1108	10.96	13.50	24.46	51.1%																									85.8%	85.8%		
109.5 - 109.25	472	909	1380	10.99	19.50	30.49	46.0%																									72.3%	72.3%	65.8%	65.8%
109.25 - 104.75	544	993	1536	11.52	19.50	31.02	54.6%																									84.2%	84.2%	76.9%	76.9%
104.75 - 104.5	548	1509	2056	11.55	31.50	43.05	41.1%											68.0%														59.2%	59.2%	56.5%	56.5%
104.5 - 102.42	584	1569	2153	11.80	31.50	43.30	44.1%											72.2%														62.9%	62.9%	60.0%	60.0%
102.42 - 102.17	583	1079	1662	11.83	27.25	39.08	55.0%											90.1%											76.4%		56.4%			76.6%	
102.17 - 98.75	645	1148	1793	12.23	27.25	39.48	61.6%											99.1%											82.2%		62.2%			84.4%	
98.75 - 98.5	649	2001	2651	12.26	40.84	53.11	41.4%						86.7%					68.5%											58.8%		47.5%			60.7%	
98.5 - 97.5	669	2037	2706	12.38	40.84	53.23	42.8%						75.4%					70.4%											60.5%		48.8%			62.4%	
97.5 - 97.25	677	1812	2489	12.41	37.84	50.26	48.3%						87.8%					73.7%											64.7%		48.8%				
97.25 - 95.55	711	1867	2577	12.61	37.84	50.46	50.8%						91.7%					77.0%											67.6%		51.0%				
95.55 - 90.55	1025	1971	2996	17.27	37.84	55.11	48.1%						95.4%					80.7%											71.4%		54.7%				
90.55 - 89.25	1062	2016	3078	17.48	37.84	55.32	49.8%						97.7%					82.7%											73.2%		56.1%				
89.25 - 89	1064	2782	3846	17.52	47.88	65.39	39.1%					84.4%						69.6%											61.1%	63.0%	50.8%				
89 - 88.25	1087	2779	3865	17.64	47.88	65.51	40.7%					63.8%						70.6%											62.0%	63.9%	51.5%				
88.25 - 88	1094	2011	3104	17.68	35.88	53.55	50.5%					80.8%																	77.3%	79.7%	62.3%				
88 - 87.83	1099	2016	3115	17.70	35.88	53.58	50.6%					81.0%																	77.5%	79.9%	62.5%				
87.83 - 87.58	1113	1720	2832	17.74	29.63	47.37	58.9%					85.9%																	85.0%	79.4%					
87.58 - 82.58	1270	1866	3135	18.54	29.63	48.17	64.4%					92.7%																	91.8%	85.9%					
82.58 - 77.58	1441	2018	3459	19.34	29.63	48.97	69.7%					98.7%																	98.0%	91.8%					
77.58 - 77	1462	2036	3498	19.44	29.63	49.06	70.3%					99.4%																	98.7%	92.4%					
77 - 76.75	1468	3032	4501	19.48	41.63	61.10	54.6%					78.7%					93.2%												79.4%	75.4%					
76.75 - 76.33	1483	3052	4535	19.54	41.63	61.17	54.9%					79.1%					93.7%												79.8%	75.8%					
76.33 - 76.08	1494	3049	4544	19.58	38.63	58.21	55.7%					86.6%					94.8%												82.7%						
76.08 - 74.25	1562	3135	4698	19.88	38.63	58.50	57.2%					88.3%					96.8%												84.5%						
74.25 - 74	1565	3585	5150	19.92	41.63	61.54	49.4%					78.0%					85.6%										84.6%	84.6%							
74 - 73.75	1574	3599	5173	19.96	41.63	61.58	49.6%					78.2%					85.7%										84.9%	84.9%							
73.75 - 73.5	1586	3743	5328	20.00	44.63	64.62	49.6%					77.1%					84.5%									76.0%	76.0%	84.9%							
73.5 - 68.5	1784	4029	5813	20.80	44.63	65.42	53.2%					81.2%					89.0%									80.2%	80.2%	89.5%							
68.5 - 63.5	1997	4326	6323	21.60	44.63	66.22	56.6%					85.0%					93.2%									84.0%	84.0%	93.7%							
63.5 - 60.5	2134	4509	6643	22.08	44.63	66.70	58.6%					87.1%					95.5%									86.1%	86.1%	96.1%							
60.5 - 60.25	2145	4524	6670	22.12	44.63	66.74	58.7%					87.3%				92.8%										86.3%	86.3%	96.3%							
60.25 - 59.5	2180	4571	6751	22.24	44.63	66.86	59.2%					87.8%				93.4%										86.8%	86.8%	96.9%							
59.5 - 59.25	2192	5057	7249	22.28	48.84	71.12	55.8%				80.8%					87.6%										81.6%	81.6%	90.6%							
59.25 - 54.25	2437	5404	7841	23.08	48.84	71.92	58.9%				81.0%					91.0%										84.8%	84.8%	94.1%							
54.25 - 50	2658	5709	8368	23.76	48.84	72.60	61.1%				83.4%					93.7%										87.3%	87.3%	96.9%							
50 - 44.8	3482	5456	8938	30.16	44.34	74.51	59.3%				91.6%					98.7%										85.9%		94.9%							
44.8 - 43.58	3567	5539	9106	30.41	44.34	74.75	59.9%				92.1%					99.3%										86.5%		95.5%							
43.58 - 43.33	3582	5665	9247	30.46	48.84	79.30	58.0%				86.1%					98.4%								84.0%		83.6%		96.0%							
43.33 - 43.17	3594	5676	9270	30.49	48.84	79.33	58.1%				86.1%					98.5%								84.0%		83.7%		96.1%							
43.17 - 42.92	3621	6494	10115	30.54	53.34	83.88	56.1%				83.7%					93.2%								83.7%	75.4%										
42.92 - 39	3905	6811	10716	31.32	53.34	84.66	56.7%				85.4%					95.1%								85.4%	77.0%										
39 - 38.75	3914	7251	11165	31.37	57.34	88.71	52.5%				76.4%			83.9%		89.9%								76.0%	76.6%										
38.75 - 37.17	4033	7389	11422	31.68	57.34	89.03	53.1%				77.0%			84.5%		90.6%								76.6%	77.2%										
37.17 - 36.92	4051	6900	10951	31.73	54.34	86.08	55.2%				78.5%			84.9%		94.1%						86.6%	89.2%	77.6%											
36.92 - 34	4277	7140	11418	32.31	54.34	86.66	56.4%				79.5%			86.1%		95.4%						87.7%	90.4%	78.7%											
34 - 33.75	4297	7121	11418	32.36	50.34	82.71	56.7%				82.9%			95.4%	95.4%							90.2%	90.5%	90.2%											
33.75 - 29.75	4622	7457	12079	33.16	50.34	83.50	58.2%				84.3%			97.0%	97.0%							91.7%	92.1%	91.7%											
29.75 - 29.5	4643	7624	12267	33.21	51.28	84.49	57.6%	82.6%		81.8%				96.0%	96.0%							90.7%	91.1%	90.7%											
29.5 - 24.5	5072	8064	13136	34.20	51.28	85.48	59.6%	84.2%		83.4%				97.8%	97.8%							92.6%	92.8%	92.5%											
24.5 - 23	5206	8198	13404	34.50	51.28	85.78	60.1%	84.7%		83.8%				98.4%	98.4%							93.0%	93.3%	93.0%											
23 - 22.75	5252	9911	15163	34.55	60.28	94.83	56.8%	76.9%		82.1%				89.2%	91.2%					76.2%	80.7%	86.8%													
22.75 - 21.58	5358	10038	15397	34.78	60.28	95.06	57.2%	76.2%		82.6%				89.6%	91.6%					76.5%	81.0%	87.2%													
21.58 - 21.33	5366	8584	13950	34.83	55.78	90.61	63.1%	78.1%		93.8%				90.8%	96.7%					76.5%	84.8%														
21.33 - 16.33	5838	9057	14895	35.83	55.78	91.61	65.0%	80.4%		95.2%				92.3%	98.2%					77.8%	86.2%														
16.33 - 12.92	6177	9386	15563	36.51	55.78	92.29	66.2%	81.2%		96.0%				93.3%	99.2%					78.7%	87.0%														
12.92 - 12.67	6193	10933	17126	36.56	64.38	100.93	58.8%	77.2%	79.8%					89.9%	86.4%					72.5%	83.8%														
12.67 - 12.5	6210	10952	17162	36.59	64.38	100.96	58.9%	77.2%	79.9%					90.0%	86.4%					72.5%	83.8%														
12.5 - 12.25	6235	8459	14694	36.64	52.38	89.01	67.1%	83.6%	88.7%											81.4%	93.3%														
12.25 - 12	6261	8481	14742	36.69	52.38	89.06	67.2%	83.5%	88.7%											81.4%	93.4%														
12 - 11.75	6353	6630	12984	36.74	46.38	83.11	84.1%	94.7%	95.5%											82.1%															
11.75 - 8.5	6693	6854	13547	37.38	46.38	83.76	85.4%	95.4%	96.2%											82.9%															
8.5 - 8.25	6727	12128	18855	37.43	67.38	104.81	62.1%	78.9%	75.1%										76.7%	67.4%															
8.25 - 7	6862	12276	19138	37.68	67.38	105.06	62.6%	79.2%	75.4%										76.0%	67.7%															
7 - 6.75	6906	10096	17001	37.73	55.38	93.11	71.0%	91.7%	79.4%										77.0%																
6.75 - 1.75	7464	10587	18051	38.73	55.38	94.10	72.9%	92.9%	80.6%										77.9%																
1.75 - 0	7666	10762	18428	39.07	55.38	94.45	73.6%	93.3%	81.0%										78.2%																

Note: Section capacity checked using 5 degree increments.
**Rating per TIA-222-H Section 15.5.*

Monopole Flange Plate Connection

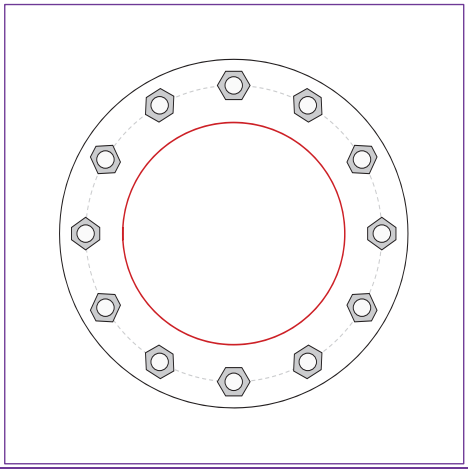
Elevation = 134.25 ft.

BU #	876317
Site Name	WATERBURY,CT
Order #	614658,Rev# 0
TIA-222 Revision	H

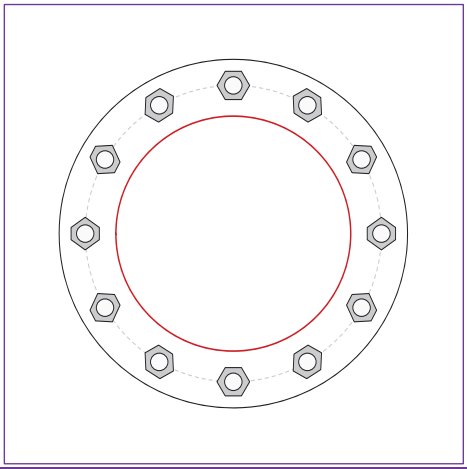
Applied Loads	
Moment (kip-ft)	60.70
Axial Force (kips)	5.46
Shear Force (kips)	6.82

**TIA-222-H Section 15.5 Applied*

Top Plate - External



Bottom Plate - External



Connection Properties

Bolt Data

(12) 1" ø bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 17" BC

Top Plate Data

20" OD x 1" Plate (A572-50; Fy=50 ksi, Fu=65 ksi)

Bottom Plate Data

20" OD x 1" Plate (A572-50; Fy=50 ksi, Fu=65 ksi)

Top Stiffener Data

N/A

Bottom Stiffener Data

N/A

Top Pole Data

12.75" x 0.375" round pole (A500-46; Fy=46 ksi, Fu=62 ksi)

Bottom Pole Data

13.48" x 0.1875" 12-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

Analysis Results

Bolt Capacity

Max Load (kips)	13.81	
Allowable (kips)	54.53	
Stress Rating:	**24.1%**	Pass

Top Plate Capacity

Max Stress (ksi):	20.11	(Flexural)
Allowable Stress (ksi):	45.00	
Stress Rating:	**42.6%**	Pass
Tension Side Stress Rating:	**26.0%**	Pass

Bottom Plate Capacity

Max Stress (ksi):	16.16	(Flexural)
Allowable Stress (ksi):	45.00	
Stress Rating:	**34.2%**	Pass
Tension Side Stress Rating:	**18.9%**	Pass

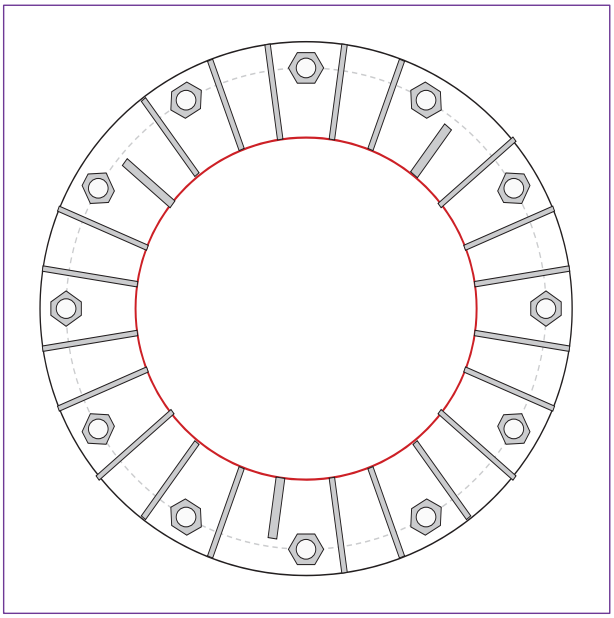
Monopole Base Plate Connection

Site Info	
BU #	876317
Site Name	WATERBURY,CT
Order #	614658,Rev# 0

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
l_{ar} (in)	0.75

Applied Loads	
Moment (kip-ft)	3349.76
Axial Force (kips)	60.25
Shear Force (kips)	31.53

**TIA-222-H Section 15.5 Applied*



Connection Properties

Anchor Rod Data

(12) 2-1/4" ø bolts (A615-75 N; Fy=75 ksi, Fu=100 ksi) on 55.16" BC

Base Plate Data

61.16" OD x 2.5" Plate (S-128; Fy=60 ksi, Fu=80 ksi)

Stiffener Data

Group 1: (21) 21.5"H x 11"W x 0.625"T, Notch: 0.75"
plate: Fy= 50 ksi ; weld: Fy= 80 ksi
horiz. weld: 0.3125" groove, 45° dbl bevel, 0.5" fillet
vert. weld: 0.3125" fillet

Group 2: (3) 126"H x 7"W x 1"T, Notch: 0.75"
plate: Fy= 65 ksi ; weld: Fy= 80 ksi
horiz. weld: 0.5" groove, 45° dbl bevel, 0.3125" fillet
vert. weld: 0.3125" fillet

Pole Data

39.2" x 0.3125" 12-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

Analysis Results

Anchor Rod Summary		*(units of kips, kip-in)*
Pu_t = 237.73	ϕPn_t = 243.75	**Stress Rating**
Vu = 2.63	ϕVn = 149.1	**92.9%**
Mu = n/a	ϕMn = n/a	**Pass**

Base Plate Summary		
Max Stress (ksi):	32.61	(Flexural)
Allowable Stress (ksi):	54	
Stress Rating:	**57.5%**	**Pass**

Stiffener Summary		
Horizontal Weld:	**43.2%**	**Pass**
Vertical Weld:	**43.4%**	**Pass**
Plate Flexure+Shear:	**24.0%**	**Pass**
Plate Tension+Shear:	**45.1%**	**Pass**
Plate Compression:	**64.4%**	**Pass**
Pole Summary		
Punching Shear:	**17.5%**	**Pass**

Pier and Pad Foundation

BU # :	876317
Site Name:	WATERBURY, CT
App. Number:	614658,Rev# 0

TIA-222 Revision:	H
Tower Type:	Monopole

Top & Bot. Pad Rein. Different?:	☑
Block Foundation?:	☑
Rectangular Pad?:	☐

Superstructure Analysis Reactions		
Compression, P_{comp}:	62.25	kips
Base Shear, Vu_comp:	31.53	kips
Moment, M_u:	3349.76	ft-kips
Tower Height, **H**:	143	ft
BP Dist. Above Fdn, bp_{dist}:	2.75	in
Bolt Circle / Bearing Plate Width, **BC**:	55.16	in

Foundation Analysis Checks				
	Capacity	**Demand**	**Rating***	**Check**
Lateral (Sliding) (kips)	278.50	31.53	**10.8%**	**Pass**
Bearing Pressure (ksf)	22.50	7.31	**32.5%**	**Pass**
*Overturning (kip*ft)*	3959.88	3569.81	**90.1%**	**Pass**
*Pad Flexure (kip*ft)*	9014.86	2084.25	**22.0%**	**Pass**
Pad Shear - 1-way (kips)	1732.56	209.44	**11.5%**	**Pass**
Pad Shear - 2-way (Comp) (ksi)	0.190	0.000	**0.0%**	**Pass**
*Flexural 2-way (Comp) (kip*ft)*	18499.97	0.00	**0.0%**	**Pass**

**Rating per TIA-222-H Section 15.5*

Structural Rating*:	**22.0%**
Soil Rating*:	**90.1%**

Pad Properties		
Depth, **D**:	6.75	ft
Pad Width, W_1:	20	ft
Pad Thickness, **T**:	6.75	ft
Pad Rebar Size (Top dir.2), Sp_{top2}:	9	
Pad Rebar Quantity (Top dir. 2), mp_{top2}:	28	
Pad Rebar Size (Bottom dir. 2), Sp_2:	10	
Pad Rebar Quantity (Bottom dir. 2), mp_2:	21	
Pad Clear Cover, cc_{pad}:	3	in

Material Properties		
Rebar Grade, **Fy**:	60	ksi
Concrete Compressive Strength, **F'c**:	4	ksi
Dry Concrete Density, δ**c**:	150	pcf

Soil Properties		
Total Soil Unit Weight, γ:	125	pcf
Ultimate Gross Bearing, Qult:	30.000	ksf
Cohesion, **Cu**:	0.000	ksf
Friction Angle, φ:	36	degrees
SPT Blow Count, N_{blows}:		
Base Friction, μ:	0.5	
Neglected Depth, **N**:	3.33	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, **gw**:	11.5	ft

B2

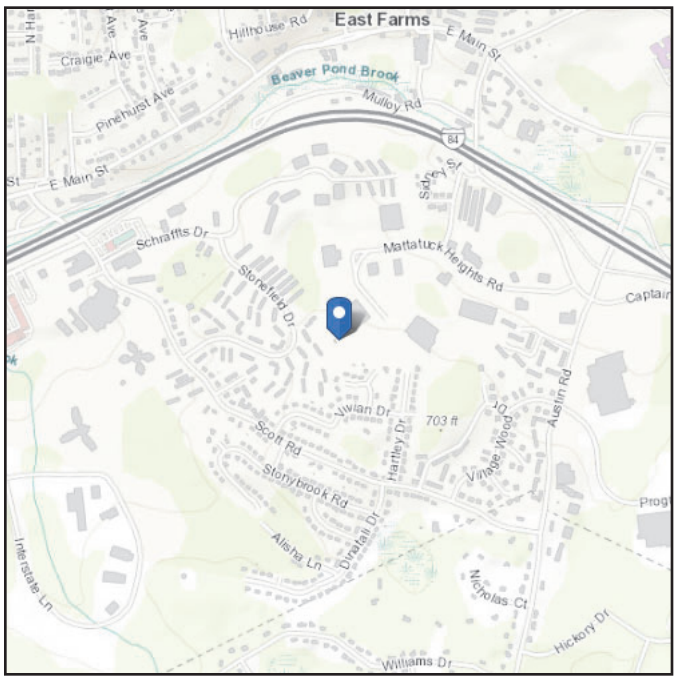
<--Toggle between Gross and Net

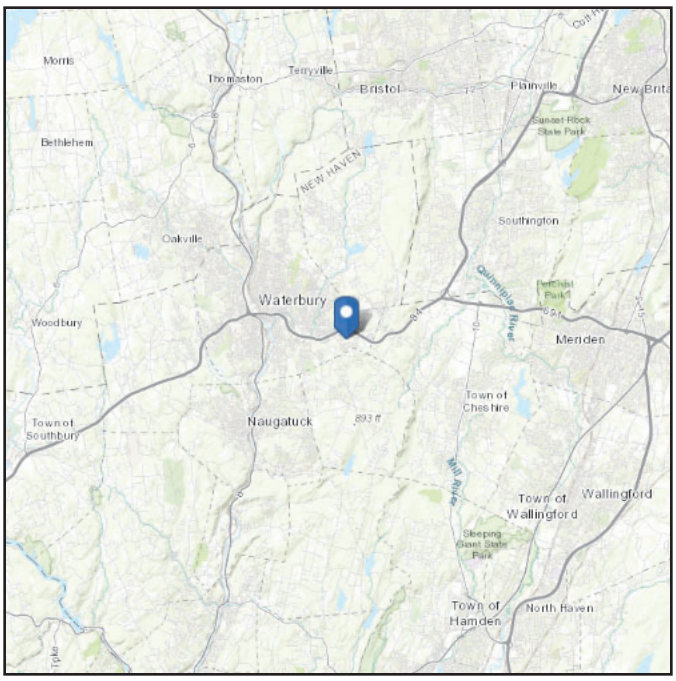
ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-16
Risk Category: II
Soil Class: D - Default (see Section 11.4.3)

Elevation: 660.21 ft (NAVD 88)
Latitude: 41.537861
Longitude: -72.985028





Wind

Results:

Wind Speed	118 Vmph
10-year MRI	75 Vmph
25-year MRI	84 Vmph
50-year MRI	90 Vmph
100-year MRI	97 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed: Sat May 07 2022

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 7-16 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 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

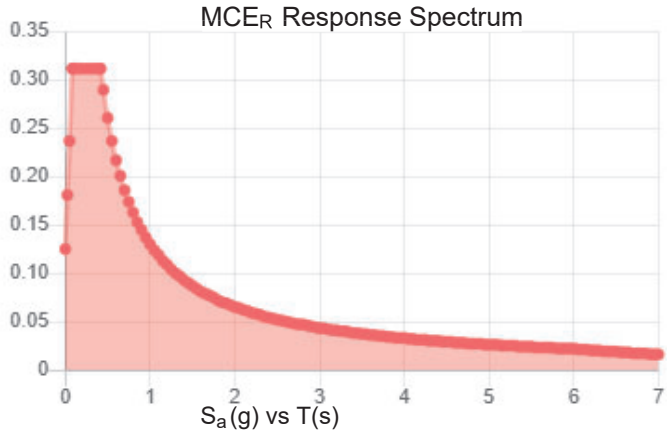
Seismic

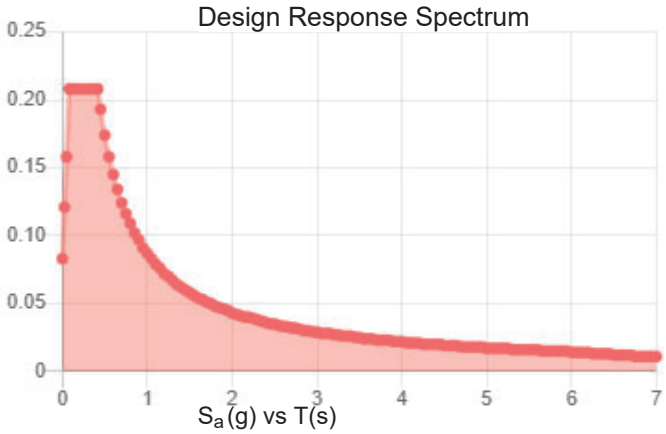
Site Soil Class: D - Default (see Section 11.4.3)

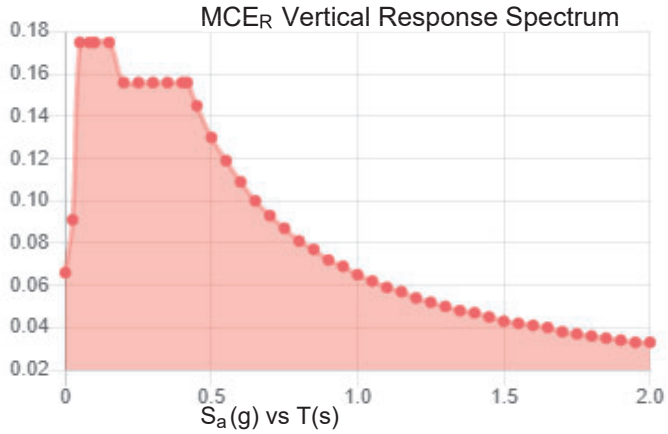
Results:

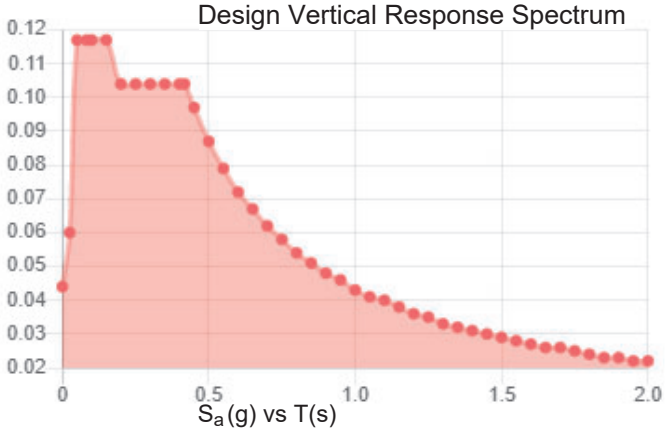
S_S :	0.195	S_{D1} :	0.087
S_1 :	0.054	T_L :	6
F_a :	1.6	PGA :	0.108
F_v :	2.4	PGA_M :	0.171
S_{MS} :	0.312	F_{PGA} :	1.585
S_{M1} :	0.13	I_e :	1
S_{DS} :	0.208	C_v :	0.7

Seismic Design Category B









Data Accessed: **Sat May 07 2022**

Date Source:
USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness:	1.00 in.
Concurrent Temperature:	15 F
Gust Speed	50 mph
Data Source:	Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8
Date Accessed:	Sat May 07 2022

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 500-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.