MASER CONSULTING
CONNECTICUT

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at&t

550 Cochituate Road
Framingham, MA 01701

LTE 2C
Revision 1

Guy Tower Feasibility Study

Site Name: *Ledyard Colonel Rd.*
FA #: *10035428*
Site Number: *CT2184*
Site Address: *889R Colonel Ledyard Highway*
Ledyard, CT 06339
New London County
Maser Project Number: *16963002A*

November 9, 2016

Analysis Type	*Guy Tower*
Pass/Fail	*Pass*
Mount Utilization	*71.3 %*

Frank E. Pazden, P.E.
Connecticut Professional Engineer
PE License # 28188

Objective:

The objective of this report is to determine the capacity of the existing 345' lattice tower structure at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards.

Introduction:

Maser Consulting Connecticut has performed limited field observations on June 29, 2016 to visually verify the existing condition of the structure from grade and to locate and quantify the existing wireless appurtenances where possible. Maser Consulting Connecticut has reviewed the following documents in completing this report:

- RFDS 1111519 provided by Empire Telecom, dated April 21, 2016 for LTE 2C scope of work.
- Rev 0 Construction Drawings prepared by Maser Consulting Connecticut for LTE 2C Scope of Work.
- Limited Visual Site Visit photos and notes prepared by Maser Consulting Connecticut on June 29, 2016.
- Tower Mapping Report prepared by Tower Engineering Professionals TEP# 72502.94719 dated, October 26, 2016.

The existing **AT&T** equipment is supported on an existing 345' lattice tower structure. The primary tower structure is constructed of solid rod legs, diagonals and horizontals. The existing **AT&T** equipment is supported on an existing antenna support mounts constructed of structural steel antenna support pipes supported by HSS tubes, pipes, and solid rods at a centerline of approximately 200'-0" above ground level. This report is based only upon this information, as well as the information obtained in the field.

Discrete and Linear Appurtenances:

Maser Consulting Connecticut understands the existing & proposed **AT&T** loading to be as follows:

- *(3) Powerwave 7770 Antennas (Existing per Mount Mapping)*
- *(2) KMW AM-X-CD-14-65-00T-RET Antennas (Existing per Mount Mapping)*
- *(4) KMW AM-X-CD-17-65-00T-RET Antennas (Existing per Mount Mapping)*
- *(3) Ericsson RRUS-11 (Existing per RFDS)*
- **(3) Ericsson RRUS-11 (Proposed per RFDS)**
- (1) Raycap DC6 *(Existing per Mount Mapping)*
- *(6) DTMABP7819VG 12A Twin PCS TMAs (Existing per Mount Mapping)*

The overall antenna loading is found in the Appendix A of this report.

Codes, Standards and Loading:

Maser Consulting Connecticut utilized the following codes and standards:

- 2016 Connecticut State Building Code, Incorporating The 2012 IBC
- Structural Standards for Antenna Supporting Structures and Antennas ANSI/TIA-222-G
    - Basic Wind Speed – 117 mph, Ice Wind Speed – 50 mph and Ice thickness - 0.75 in
    - Exposure Category – C
    - Structure Class – II
    - Topographic Category - 1
- Specification for Structural Steel Buildings ANSI/AISC 360-10

Analysis Approach & Assumptions:

The analysis approach used in this structural analysis is based on the premise that if the existing lattice structure is structurally adequate to support the existing and proposed equipment per the aforementioned codes and standards, or if the increase in the forces in the structure are deemed to be negligible or acceptable, then the proposed equipment can be installed as intended. Tower Numerics, tnx Tower, a tower analysis and design program, designed specifically for the telecommunications industry and for all applicable codes and standards was used for this structural analysis.

The following assumptions were utilized in this report:

- Structural Steel Main Legs and Diagonals are constructed of A572-50 Grade Steel.
- Structural Steel Flat Bar members are constructed of A36 Grade.
- Structural Bolts are assumed to be A325N grade.
- Tower is installed to plumb and is maintained properly without any structural deficiencies or deteriorations to the original design.
- It is assumed that the telecommunication equipment supports, antenna supports, and existing structure have been designed by a registered licensed professional engineer for the existing loads acting on the structure, as required by all applicable codes, prior to the proposed modifications listed within this report.
- It is assumed that information provided by the client regarding the structure itself, the antenna models, feed lines, and other relevant information is current and correct.
- It is assumed all other existing appurtenances, antennas, cables, etc. belonging to others have been installed and supported per code and per specifications so as not to damage any existing structural support members, and that any contributing loads from adjacent equipment has been taken into consideration for their design.
- Proposed equipment and locations should not deviate from the proposed locations noted herein and shown on the associated Maser Consulting Connecticut final Construction Drawings.

Proposed Modification:

It should be noted that this analysis took into account that the existing **AT&T** mount will need an additional proposed stabilizer arm at each sector, to be in compliance with local codes and standards. For the details please see the Rev 0 construction drawing prepared by Maser Consulting Connecticut.

Calculations:

The calculations are found in Appendix A of this report.

Conclusion:

The existing lattice tower was analyzed for the loading in the applicable codes and standards. The tower has been determined to be structurally **ADEQUATE** to support the proposed and existing antennas, based upon the aforementioned assumptions.

The lattice tower has been determined to be stressed to a maximum of **71.3%** of its structural capacity with the maximum usage occurring at the tower legs located between the elevations 160'-180'. The antenna mounts have been determined to be stressed to a maximum of **214.8%** of its structural capacity with the maximum usage occurring at the main pipe horizontals. Maser Consulting Connecticut recommends adding a 2" STD pipe stabilizer arm to the opposite side of the sector frame, similar to the existing stabilizer arm. With the recommended modifications the sector frame will be structurally adequate at **89.0%** of its structural capacity. Therefore, the proposed **AT&T** installation **CAN** be installed as intended, once the proposed modifications are installed as intended.

Prior to the installation of the proposed equipment, the contractor shall verify that all bolted connections are properly fastened from the original installation. Additionally, the contractor shall inspect all existing hardware and verify that it is in its original condition and free of rust and deterioration. If any deficiencies are noted the contractor shall notify the engineer of the conditions prior to installation of any equipment for additional evaluation.

It should be noted that due to a lack of information Maser Consulting Connecticut did not perform an analysis on the foundation. If information is provided then this report can be amended. The conclusions reached by Maser Consulting Connecticut in this evaluation are only applicable for the existing structural members supporting the proposed **AT&T** telecommunications installation described herein. Further, no structural qualifications are made or implied by this document for the existing structure.

We appreciate the opportunity to be of service on this project. If you should have any questions or require any additional information, please do not hesitate to call our office.

Sincerely,
Maser Consulting Connecticut

Anwesha Bera

Frank Pazden, P.E.
Telecommunications Department Manager

Anwesha Bera, E.I.T.
Structural Design Engineer

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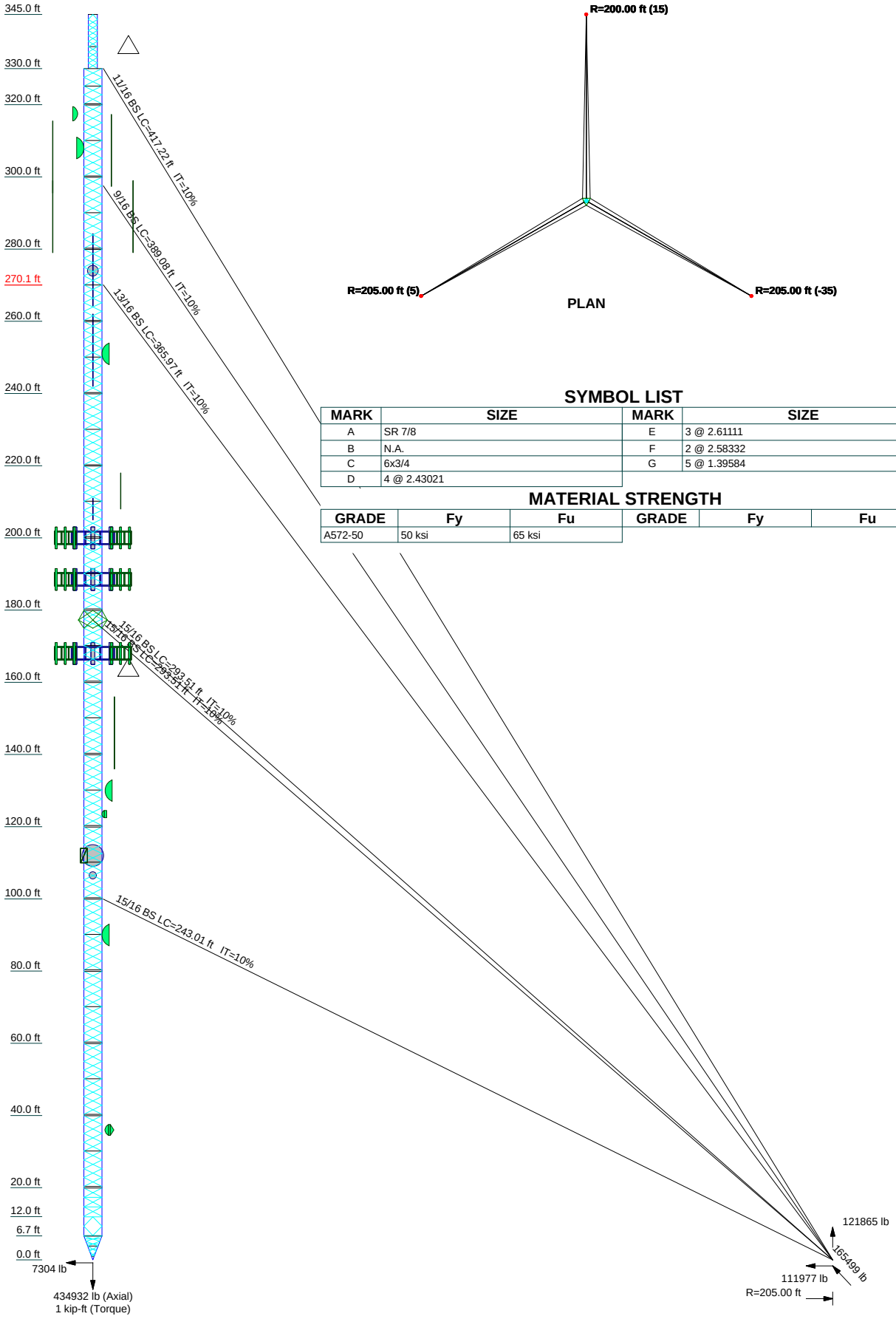
APPENDIX A

Section	T19	T18	T17	T16	T15	T14	T13	T12	T11	T10	T9	T8	T7	T6	T5	T4	T3	T2	T1	L1
Legs							SR 2 3/4					SR 2 1/4	SR 2 1/2			SR 2 1/4				SR 1 1/4
Leg Grade												A572-50								
Diagonals			SR 1 1/4									SR 1 1/4		SR 1				SR 7/8		SR 1/2
Diagonal Grade												A572-50								
Top Girts	C	B	A				SR 1 1/4					SR 1 1/2	SR 1 1/4			SR 1			6x3/4	SR 3/4
Mid Girts	C	N.A.					SR 1 1/4					SR 1 1/2	SR 1 1/4			SR 1				SR 3/4
Bottom Girts	C	N.A.					SR 1 1/4					SR 1 1/2	SR 1 1/4			SR 1				N.A.
Horizontals	N.A.	C	A									N.A.								
Sec. Horizontals	A											N.A.								
Face Width (ft)																			5	2.5
# Panels @ (ft)	G	F	E									80 @ 2.44375				40 @ 2.45469			D	10 @ 1.5
Weight (lb) 37174.7	1284.6	011.0	1051.2	2220.2	2220.2	2220.2	2220.2	2220.2	2220.2	2220.2	3887.9	2728.7	1999.2	1728.9	1728.9	1728.9	1553.1	1553.1	1038.2	339.4



SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	SR 7/8	E	3 @ 2.61111
B	N.A.	F	2 @ 2.58332
C	6x3/4	G	5 @ 1.39584
D	4 @ 2.43021		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi			

ALL REACTIONS ARE FACTORED

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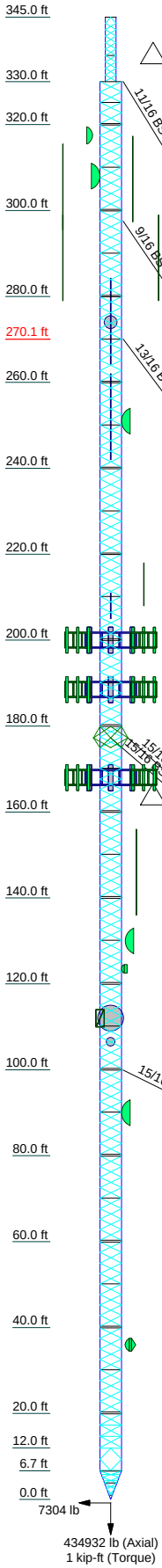
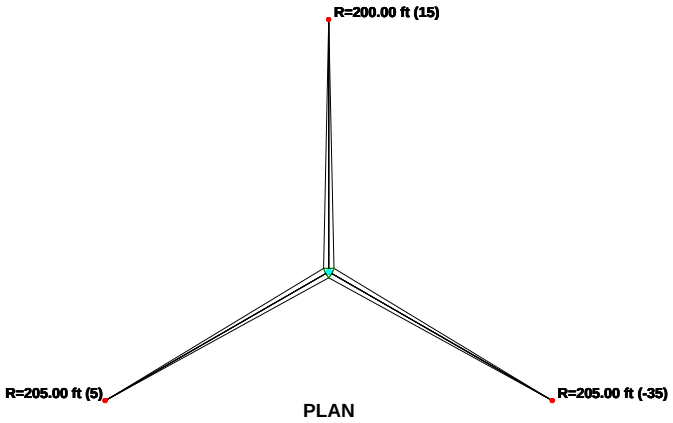
Job: ***Ledyard Colonel Rd***			
Project: ***16963002A***			
Client: AT&T Mobility	Drawn by: ABera	App'd:	
Code: TIA-222-G	Date: 11/09/16	Scale: NTS	
Path: \\maserconsulting.com\lu\Projects\2016\16963000A\16963002A\Structural\Tower Analysis\Rev 1\TNX\Tower.eri		Dwg No. E-1	

Section	T19	T18	T17	T16	T15	T14	T13	T12	T11	T10	T9	T8	T7	T6	T5	T4	T3	T2	T1	L1
Legs							SR 2 3/4						SR 2 1/2			SR 2 1/4				SR 1 1/4
Leg Grade												A572-50								
Diagonals			SR 1 1/4									SR 1				SR 1				SR 1/2
Diagonal Grade												A572-50								
Top Girts	C	B	A									SR 1 1/2	SR 1 1/4			SR 1			6x3/4	SR 3/4
Mid Girts	C	N.A.										SR 1 1/2	SR 1 1/4			SR 1				SR 3/4
Bottom Girts	C	N.A.										SR 1 1/2	SR 1 1/4			SR 1				N.A.
Horizontals	N.A.	C	A									N.A.								
Sec. Horizontals	A											N.A.								
Face Width (ft)																			5	2.5
# Panels @ (ft)	G	F	E									80 @ 2.44375				40 @ 2.45469			D	10 @ 1.5
Weight (lb) 37174.7	1284.6	1011.0	1051.2	2220.2	2220.2	2220.2	2220.2	2220.2	2220.2	2220.2	3887.9	2728.7	1999.2	1728.9	1728.9	1729.9	1553.1	1553.1	1038.2	339.4





DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
1105-1A	342	11', 2" STD Stabilizer Arm (ATI)	200
MP-3E	338	11', 2" STD Stabilizer Arm (ATI)	200
1105-1A	332.5	ERICSSON Generic (T-Mobile)	188.5
P-9A120GN	317.5	ERICSSON KRY 112 (T-Mobile)	188.5
3' Side Arm	317	ERICSSON Generic (T-Mobile)	188.5
SHP-1AE	312	ERICSSON KRY 112 (T-Mobile)	188.5
P-9A72GN-S	308	ERICSSON KRY 112 (T-Mobile)	188.5
3" Dia 20' Omni	307.333	LNX-6515DS-A1M (T-Mobile)	188.5
3" Dia 20' Omni	305.5	(2) AIR 21 B2A B4P (T-Mobile)	188.5
3' Side Arm	295.5	(2) AIR 21 B2A B4P (T-Mobile)	188.5
LeBlanc 10' Standoff (3)	294	(2) AIR 21 B2A B4P (T-Mobile)	188.5
LeBlanc 10' Standoff (3)	294	LNX-6515DS-A1M (T-Mobile)	188.5
3" Dia 20' Omni	294 - 284	(3) 2" pipe 8' long (T-Mobile)	188.5
3" Dia 20' Omni	294 - 284	(3) 2" pipe 8' long (T-Mobile)	188.5
1105-1A	288	(3) 2" pipe 8' long (T-Mobile)	188.5
1105-1A	279	ERICSSON Generic (T-Mobile)	188.5
3" Dia 20' Omni	274.25	LNX-6515DS-A1M (T-Mobile)	188.5
5'3"x4" Pipe Mount	274	Valmont 10' Wireless Frame (3) (T-Mobile)	186.5
SPD6-58	274		
Pirod 4' Side Mount Standoff (1)	264.25	BXA-70063-6CF-EDIN w/MP (Verizon)	169.5
Pirod 4' Side Mount Standoff (1)	262	BXA-70063-6CF-EDIN w/MP (Verizon)	169.5
3" Dia 20' Omni	252	(2) LPA-80063/4CFx5 w/Mount Pipe (Verizon)	169.5
P-9A72GN-S	251		
Site Pro LTF12-4126	226.5	(2) LPA-80080-4CF-EDIN w/MP (Verizon)	169.5
Site Pro LTF12-4126	226.5	(2) LPA-80063/4CFx5 w/Mount Pipe (Verizon)	169.5
Site Pro LTF12-4126	226.5		
(2) 59 1/2x6 1/2x 3 Pannel	226.5	(2) ANDREW E15V95P08 04 (Verizon)	169.5
(2) 59 1/2x6 1/2x 3 Pannel	226.5	BXA-171063-12BF-EDIN-2 w/ MP (Verizon)	169.5
(2) 59 1/2x6 1/2x 3 Pannel	226.5		
1105-1A	219.5	(2) ANDREW E15V95P08 04 (Verizon)	169.5
15' OMNI	213	BXA-171063-12BF-EDIN-2 w/ MP (Verizon)	169.5
MFF-950B	209		
1.9"x4' pipe mount	209	BXA-70063-6CF-EDIN w/MP (Verizon)	169.5
2" Dia 8' Omni	208	(2) ANDREW E15V95P08 04 (Verizon)	169.5
Pirod 6-8' Box Arm (1)	205.5	BXA-171063-12BF-EDIN-2 w/ MP (Verizon)	169.5
Pirod 6-8' Box Arm (1)	204		
7770 (ATI)	200	Pirod 12' T-Frame Sector Mount (1) (Verizon)	168
7770 (ATI)	200	Pirod 12' T-Frame Sector Mount (1) (Verizon)	168
7770 (ATI)	200		
(2) AM-X-CD-14-65-OOT-RET (ATI)	200	Pirod 12' T-Frame Sector Mount (1) (Verizon)	168
RRUS 11 (ATI)	200		
RRUS 11 (ATI)	200	(3) 1.9"x4' pipe mount	150.5
RRUS 11 (ATI)	200	13' Diapole	150.5
RRUS 11 (ATI)	200	3" Dia 20' Omni	146
RRUS 11 (ATI)	200	Pirod 4' Side Mount Standoff (1)	138.5
RRUS 11 (ATI)	200	P-9A72GN-S	130
DTMABP7819VG12A (ATI)	200	2'6"x4" Pipe Mount	130
DTMABP7819VG12A (ATI)	200	HP2-18	123.5
DTMABP7819VG12A (ATI)	200	MTZ-940B	112
DC6-48-60-18-8F (ATI)	200	3' Side Arm	112
Pirod 10' PCS Frame (1) (ATI)	200	HP2-18	106.5
Pirod 10' PCS Frame (1) (ATI)	200	1.9"x4' pipe mount	90
Pirod 10' PCS Frame (1) (ATI)	200	PR-950	90
(2) AM-X-CD-17-65-OOT-RET (ATI)	200	SPD3-2.4NS	36
(2) AM-X-CD-17-65-OOT-RET (ATI)	200		
11', 2" STD Stabilizer Arm (ATI)	200		

SYMBOL LIST

MARK	SIZE	MARK	SIZE
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B	N.A.	F	2 @ 2.58332
C	6x3/4	G	5 @ 1.39584
D	4 @ 2.43021		

MATERIAL STRENGTH

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Lodyard Colonel Rd

Project: ***16963002A***			
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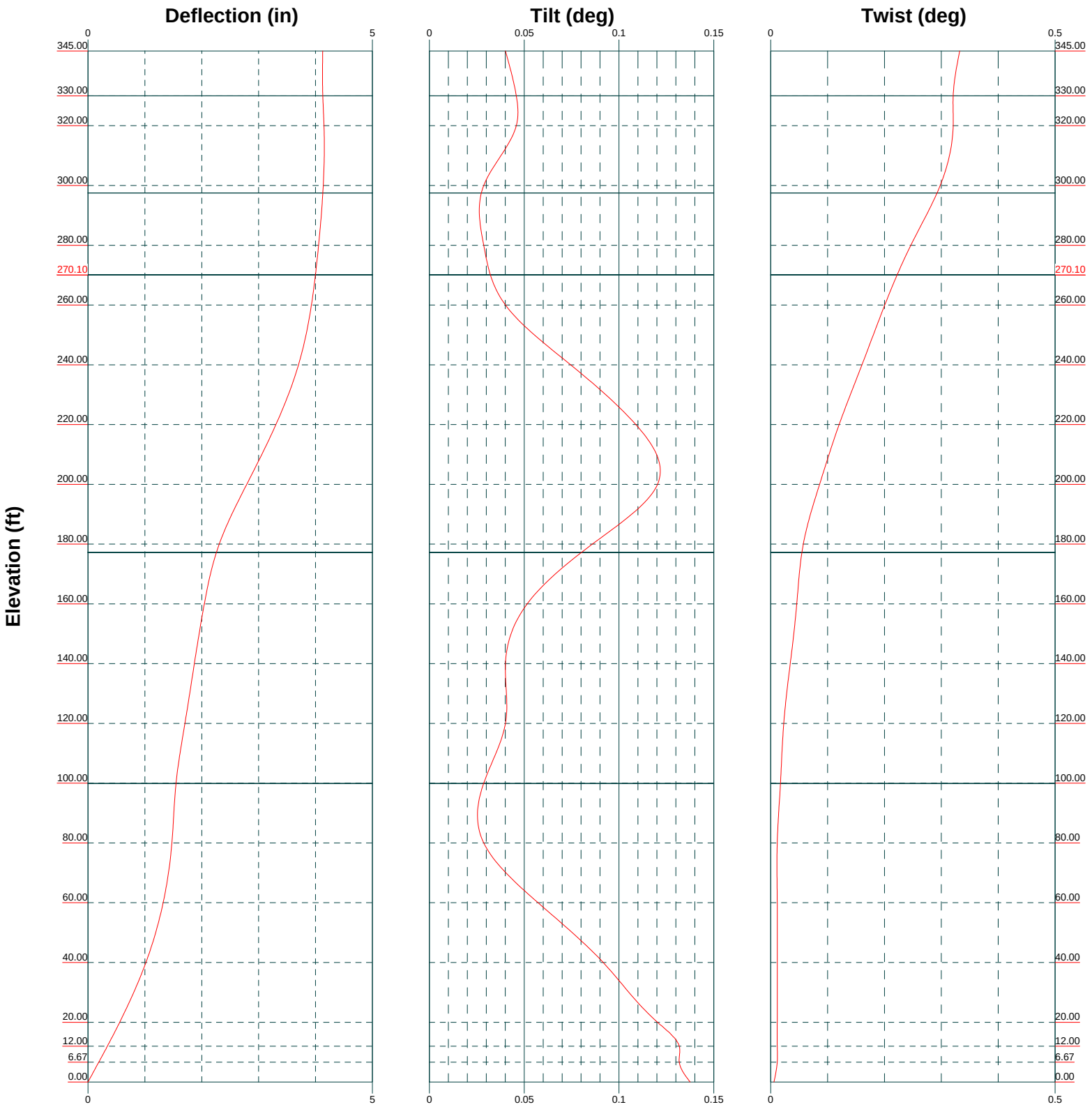
Path: \\maserconsulting.com\lu\Projects\2016\16963000A\16963002A\Structural\Tower Analysis\Rev 1\TNX\Tower.eri		Dwg No. E-1	

TIA-222-G - Service - 60 mph

Maximum Values



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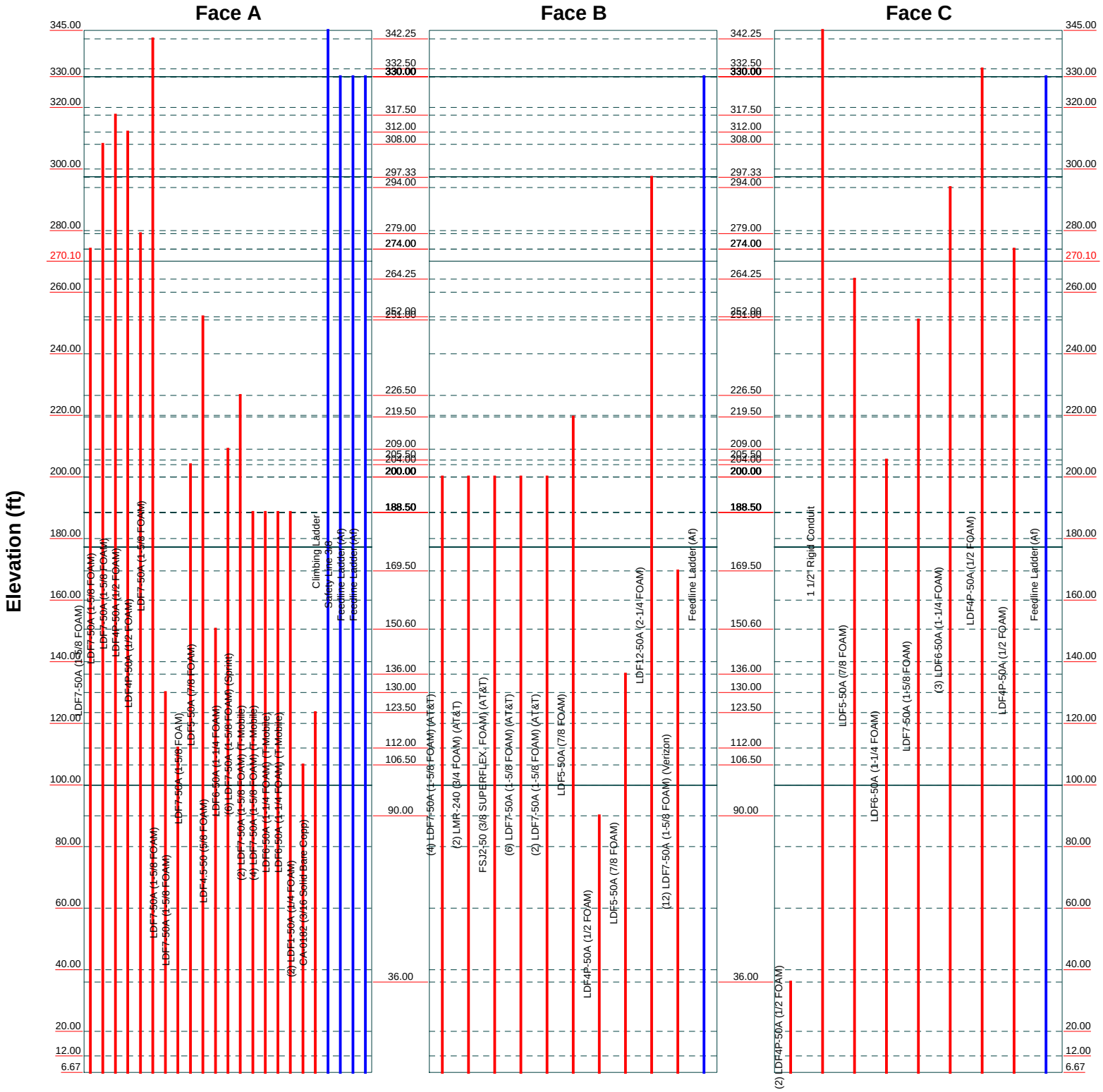
Feed Line Distribution Chart
6'8-1/32" - 345'

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



Maser Consulting P.A. 2000 Midlantic Drive Suite 100 Mount Laurel, NJ Consulting Engineers Phone: 856.797.0412 FAX: 856.722.1120	Job: ***Ledyard Colonel Rd***	
	Project: ***16963002A***	
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	Code: TIA-222-G	Date: 11/09/16 / Scale: NTS
	Path: \\maserconsulting.com\lui\Projects\2016\16963000A\16963002A\Structural\Tower Analysis\Rev 1\TNX\Tower.eri	Dwg No. E-7

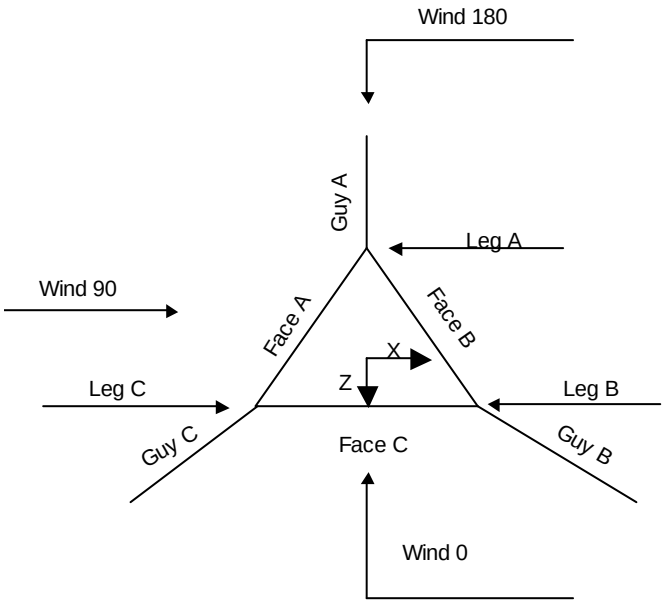
Tower Input Data

The main tower is a 3x guyed tower with an overall height of 345.00 ft above the ground line.
The base of the tower is set at an elevation of 0.00 ft above the ground line.
The face width of the tower is 5.00 ft at the top and tapered at the base.
An index plate is provided at the 3 sided -tower connection.
There is a 3 sided latticed pole with a face width of 2.50 ft.
This tower is designed using the TIA-222-G standard.
The following design criteria apply:

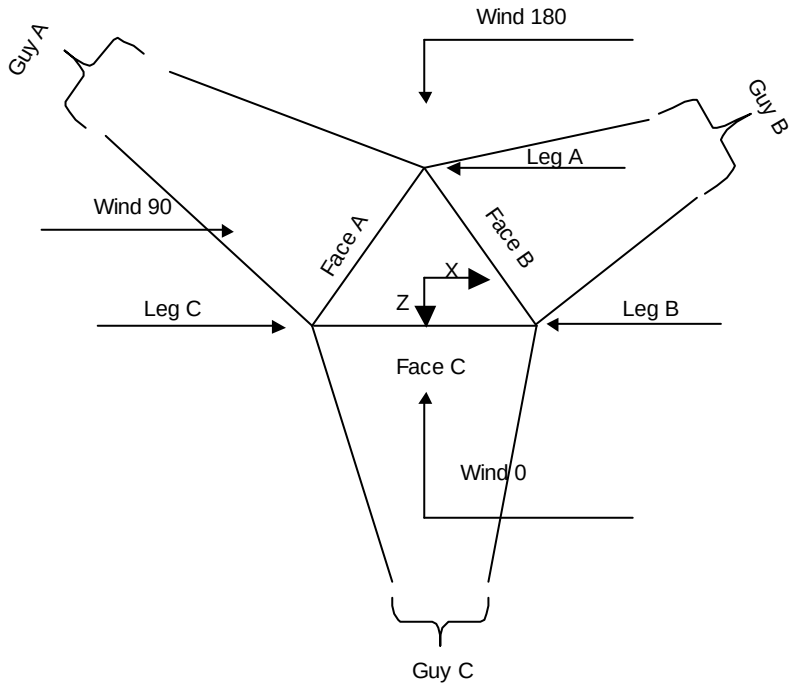
Tower is located in Harrison County, West Virginia.
ASCE 7-10 Wind Data is used (wind speeds converted to nominal values).
Basic wind speed of 91 mph.
Structure Class II.
Exposure Category C.
Topographic Category 1.
Crest Height 0.00 ft.
Nominal ice thickness of 0.7500 in.
Ice thickness is considered to increase with height.
Ice density of 56 pcf.
A wind speed of 50 mph is used in combination with ice.
Temperature drop of 50 °F.
Deflections calculated using a wind speed of 60 mph.
Weld together tower sections have flange connections..
Connections use galvanized A325 bolts, nuts and locking devices. Installation per TIA/EIA-222 and AISC Specifications..
Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards..
Welds are fabricated with ER-70S-6 electrodes..
Pressures are calculated at each section.
Stress ratio used in latticed pole member design is 1.
Safety factor used in guy design is 1.
Stress ratio used in tower member design is 1.
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-G Bracing Resist. Exemption
√	Include Bolts In Member Capacity	√	Autocalc Torque Arm Areas		Use TIA-222-G 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				



Corner & Starmount Guyed Tower



Face Guyed

3 Sided Latticed Pole Section Geometry

Tower Section	Tower Elevation ft	Assembly Database	Description	Section Width ft	Number of Sections	Section Length ft
L1	345.00-330.00			2.50	1	15.00

3 Sided Latticed Pole Section Geometry *(cont'd)*

Tower Section	Tower Elevation ft	Diagonal Spacing ft	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset in	Bottom Girt Offset in
L1	345.00-330.00	1.50	X Brace	Yes	No	0.0000	1.0000

3 Sided Latticed Pole Section Geometry *(cont'd)*

Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
L1 345.00-330.00	Solid Round	1 1/4	A572-50 (50 ksi)	Solid Round	1/2	A572-50 (50 ksi)

3 Sided Latticed Pole Section Geometry *(cont'd)*

Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
L1 345.00-330.00	Solid Round	3/4	A572-50 (50 ksi)	Flat Bar		A36 (36 ksi)

3 Sided Latticed Pole Section Geometry *(cont'd)*

Tower Elevation ft	No. of Mid Girts	Mid Girt Type	Mid Girt Size	Mid Girt Grade	Horizontal Type	Horizontal Size	Horizontal Grade
L1 345.00-330.00	1	Solid Round	3/4	A572-50 (50 ksi)	Flat Bar		A36 (36 ksi)

3 Sided Latticed Pole Section Geometry *(cont'd)*

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 345.00-330.00	0.00	0.0000	A36 (36 ksi)	1.05	1.05	1.05	36.0000	36.0000	36.0000

3 Sided Latticed Pole Section Geometry *(cont'd)*

Tower Elevation ft	Calc K Single Angles	Calc K Solid Rounds	K Factors[1] Legs	X Brace Diags X Y	K Brace Diags X Y	Single Diags X Y	Girts X Y	Horiz. X Y	Sec. Horiz. X Y	Inner Brace X Y
L1 345.00-330.00	Yes	Yes	1	1 1	1 1	1 1	1 0.75	1 1	1 1	1 1

[1]*Note: K factors are applied to member segment lengths. K-braces without inner supporting members will have the K factor in the out-of-plane direction applied to the overall length.*

3 Sided Latticed Pole Section Geometry *(cont'd)*

Tower Elevation ft	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
L1 345.00-330.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75

Tower Section Geometry

Tower Section	Tower Elevation ft	Assembly Database	Description	Section Width ft	Number of Sections	Section Length ft
T1	330.00-320.00			5.00	1	10.00
T2	320.00-300.00			5.00	1	20.00
T3	300.00-280.00			5.00	1	20.00
T4	280.00-260.00			5.00	1	20.00
T5	260.00-240.00			5.00	1	20.00
T6	240.00-220.00			5.00	1	20.00
T7	220.00-200.00			5.00	1	20.00
T8	200.00-180.00			5.00	1	20.00
T9	180.00-160.00			5.00	1	20.00
T10	160.00-140.00			5.00	1	20.00
T11	140.00-120.00			5.00	1	20.00
T12	120.00-100.00			5.00	1	20.00
T13	100.00-80.00			5.00	1	20.00
T14	80.00-60.00			5.00	1	20.00
T15	60.00-40.00			5.00	1	20.00
T16	40.00-20.00			5.00	1	20.00
T17	20.00-12.00			5.00	1	8.00
T18	12.00-6.67			5.00	1	5.33
T19	6.67-0.00			5.00	1	6.67

Tower Section Geometry *(cont'd)*

Tower Section	Tower Elevation ft	Diagonal Spacing ft	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset in	Bottom Girt Offset in
T1	330.00-320.00	2.43	X Brace	No	No	0.0000	3.3500
T2	320.00-300.00	2.45	X Brace	No	No	1.0000	3.3500
T3	300.00-280.00	2.45	X Brace	No	No	1.0000	3.3500
T4	280.00-260.00	2.45	X Brace	No	No	1.0000	3.3500
T5	260.00-240.00	2.45	X Brace	No	No	1.0000	3.3500

Tower Section	Tower Elevation ft	Diagonal Spacing ft	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset in	Bottom Girt Offset in
T6	240.00-220.00	2.45	X Brace	No	No	1.0000	3.3500
T7	220.00-200.00	2.44	X Brace	No	No	1.0000	4.4000
T8	200.00-180.00	2.44	X Brace	No	No	1.0000	4.4000
T9	180.00-160.00	2.44	X Brace	No	No	1.0000	4.4000
T10	160.00-140.00	2.44	X Brace	No	No	1.0000	4.4000
T11	140.00-120.00	2.44	X Brace	No	No	1.0000	4.4000
T12	120.00-100.00	2.44	X Brace	No	No	1.0000	4.4000
T13	100.00-80.00	2.44	X Brace	No	No	1.0000	4.4000
T14	80.00-60.00	2.44	X Brace	No	No	1.0000	4.4000
T15	60.00-40.00	2.44	X Brace	No	No	1.0000	4.4000
T16	40.00-20.00	2.44	X Brace	No	No	1.0000	4.4000
T17	20.00-12.00	2.61	X Brace	No	Yes	1.0000	1.0000
T18	12.00-6.67	2.58	Diamond	No	Yes	1.0000	1.0000
T19	6.67-0.00	1.40	X Brace	No	Yes	1.0000	12.0000

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T1 330.00-320.00	Solid Round	2 1/4	A572-50 (50 ksi)	Solid Round	7/8	A572-50 (50 ksi)
T2 320.00-300.00	Solid Round	2 1/4	A572-50 (50 ksi)	Solid Round	7/8	A572-50 (50 ksi)
T3 300.00-280.00	Solid Round	2 1/4	A572-50 (50 ksi)	Solid Round	7/8	A572-50 (50 ksi)
T4 280.00-260.00	Solid Round	2 1/4	A572-50 (50 ksi)	Solid Round	1	A572-50 (50 ksi)
T5 260.00-240.00	Solid Round	2 1/4	A572-50 (50 ksi)	Solid Round	1	A572-50 (50 ksi)
T6 240.00-220.00	Solid Round	2 1/4	A572-50 (50 ksi)	Solid Round	1	A572-50 (50 ksi)
T7 220.00-200.00	Solid Round	2 1/2	A572-50 (50 ksi)	Solid Round	1	A572-50 (50 ksi)
T8 200.00-180.00	Solid Round	2 3/4	A572-50 (50 ksi)	Solid Round	1 1/4	A572-50 (50 ksi)
T9 180.00-160.00	Solid Round	2 3/4	A572-50 (50 ksi)	Solid Round	1 1/4	A572-50 (50 ksi)
T10 160.00-140.00	Solid Round	2 3/4	A572-50 (50 ksi)	Solid Round	1	A572-50 (50 ksi)
T11 140.00-120.00	Solid Round	2 3/4	A572-50 (50 ksi)	Solid Round	1	A572-50 (50 ksi)
T12 120.00-100.00	Solid Round	2 3/4	A572-50 (50 ksi)	Solid Round	1	A572-50 (50 ksi)
T13 100.00-80.00	Solid Round	2 3/4	A572-50 (50 ksi)	Solid Round	1	A572-50 (50 ksi)
T14 80.00-60.00	Solid Round	2 3/4	A572-50 (50 ksi)	Solid Round	1	A572-50 (50 ksi)
T15 60.00-40.00	Solid Round	2 3/4	A572-50 (50 ksi)	Solid Round	1	A572-50 (50 ksi)
T16 40.00-20.00	Solid Round	2 3/4	A572-50 (50 ksi)	Solid Round	1	A572-50 (50 ksi)
T17 20.00-12.00	Solid Round	2 3/4	A572-50 (50 ksi)	Solid Round	1 1/4	A572-50 (50 ksi)
T18 12.00-6.67	Solid Round	2 3/4	A572-50 (50 ksi)	Solid Round	1 1/4	A572-50 (50 ksi)

Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T19 6.67-0.00	Solid Round	2 3/4	A572-50 (50 ksi)	Solid Round	1 1/4	A572-50 (50 ksi)

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
T1 330.00-320.00	Flat Bar	6x3/4	A36 (36 ksi)	Solid Round	1	A572-50 (50 ksi)
T2 320.00-300.00	Solid Round	1	A572-50 (50 ksi)	Solid Round	1	A572-50 (50 ksi)
T3 300.00-280.00	Solid Round	1	A572-50 (50 ksi)	Solid Round	1	A572-50 (50 ksi)
T4 280.00-260.00	Solid Round	1	A572-50 (50 ksi)	Solid Round	1	A572-50 (50 ksi)
T5 260.00-240.00	Solid Round	1	A572-50 (50 ksi)	Solid Round	1	A572-50 (50 ksi)
T6 240.00-220.00	Solid Round	1	A572-50 (50 ksi)	Solid Round	1	A572-50 (50 ksi)
T7 220.00-200.00	Solid Round	1 1/4	A572-50 (50 ksi)	Solid Round	1 1/4	A572-50 (50 ksi)
T8 200.00-180.00	Solid Round	1 1/2	A572-50 (50 ksi)	Solid Round	1 1/2	A572-50 (50 ksi)
T9 180.00-160.00	Solid Round	1 1/2	A572-50 (50 ksi)	Solid Round	1 1/2	A572-50 (50 ksi)
T10 160.00-140.00	Solid Round	1 1/4	A572-50 (50 ksi)	Solid Round	1 1/4	A572-50 (50 ksi)
T11 140.00-120.00	Solid Round	1 1/4	A572-50 (50 ksi)	Solid Round	1 1/4	A572-50 (50 ksi)
T12 120.00-100.00	Solid Round	1 1/4	A572-50 (50 ksi)	Solid Round	1 1/4	A572-50 (50 ksi)
T13 100.00-80.00	Solid Round	1 1/4	A572-50 (50 ksi)	Solid Round	1 1/4	A572-50 (50 ksi)
T14 80.00-60.00	Solid Round	1 1/4	A572-50 (50 ksi)	Solid Round	1 1/4	A572-50 (50 ksi)
T15 60.00-40.00	Solid Round	1 1/4	A572-50 (50 ksi)	Solid Round	1 1/4	A572-50 (50 ksi)
T16 40.00-20.00	Solid Round	1 1/4	A572-50 (50 ksi)	Solid Round	1 1/4	A572-50 (50 ksi)
T17 20.00-12.00	Solid Round	7/8	A572-50 (50 ksi)	Solid Round		A572-50 (50 ksi)
T19 6.67-0.00	Flat Bar	6x3/4	A36 (36 ksi)	Flat Bar	6x3/4	A36 (36 ksi)

Tower Section Geometry *(cont'd)*

Tower Elevation ft	No. of Mid Girts	Mid Girt Type	Mid Girt Size	Mid Girt Grade	Horizontal Type	Horizontal Size	Horizontal Grade

Tower Elevation ft	No. of Mid Girts	Mid Girt Type	Mid Girt Size	Mid Girt Grade	Horizontal Type	Horizontal Size	Horizontal Grade
T1 330.00-320.00	1	Solid Round	1	A572-50 (50 ksi)	Solid Round		A572-50 (50 ksi)
T2 320.00-300.00	1	Solid Round	1	A572-50 (50 ksi)	Solid Round		A572-50 (50 ksi)
T3 300.00-280.00	1	Solid Round	1	A572-50 (50 ksi)	Solid Round		A572-50 (50 ksi)
T4 280.00-260.00	1	Solid Round	1	A572-50 (50 ksi)	Solid Round		A572-50 (50 ksi)
T5 260.00-240.00	1	Solid Round	1	A572-50 (50 ksi)	Solid Round		A572-50 (50 ksi)
T6 240.00-220.00	1	Solid Round	1	A572-50 (50 ksi)	Solid Round		A572-50 (50 ksi)
T7 220.00-200.00	1	Solid Round	1 1/4	A572-50 (50 ksi)	Solid Round		A572-50 (50 ksi)
T8 200.00-180.00	1	Solid Round	1 1/2	A572-50 (50 ksi)	Solid Round		A572-50 (50 ksi)
T9 180.00-160.00	1	Solid Round	1 1/2	A572-50 (50 ksi)	Solid Round		A572-50 (50 ksi)
T10 160.00-140.00	1	Solid Round	1 1/4	A572-50 (50 ksi)	Solid Round		A572-50 (50 ksi)
T11 140.00-120.00	1	Solid Round	1 1/4	A572-50 (50 ksi)	Solid Round		A572-50 (50 ksi)
T12 120.00-100.00	1	Solid Round	1 1/4	A572-50 (50 ksi)	Solid Round		A572-50 (50 ksi)
T13 100.00-80.00	1	Solid Round	1 1/4	A572-50 (50 ksi)	Solid Round		A572-50 (50 ksi)
T14 80.00-60.00	1	Solid Round	1 1/4	A572-50 (50 ksi)	Solid Round		A572-50 (50 ksi)
T15 60.00-40.00	1	Solid Round	1 1/4	A572-50 (50 ksi)	Solid Round		A572-50 (50 ksi)
T16 40.00-20.00	1	Solid Round	1 1/4	A572-50 (50 ksi)	Solid Round		A572-50 (50 ksi)
T17 20.00-12.00	None	Solid Round		A36 (36 ksi)	Solid Round	7/8	A572-50 (50 ksi)
T18 12.00-6.67	None	Flat Bar		A36 (36 ksi)	Flat Bar	6x3/4	A36 (36 ksi)
T19 6.67-0.00	1	Flat Bar	6x3/4	A36 (36 ksi)	Solid Round		A36 (36 ksi)

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Secondary Horizontal Type	Secondary Horizontal Size	Secondary Horizontal Grade	Inner Bracing Type	Inner Bracing Size	Inner Bracing Grade
T19 6.67-0.00	Solid Round	7/8	A572-50 (50 ksi)	Solid Round		A572-50 (50 ksi)

Tower Section Geometry *(cont'd)*

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
T1 330.00-320.00	0.00	0.0000	A36 (36 ksi)	1.05	1.05	1.05	36.0000	36.0000	36.0000
T2 320.00-300.00	0.00	0.0000	A36 (36 ksi)	1.05	1.05	1.05	36.0000	36.0000	36.0000
T3 300.00-280.00	0.00	0.0000	A36 (36 ksi)	1.05	1.05	1.05	36.0000	36.0000	36.0000
T4 280.00-260.00	0.00	0.0000	A36 (36 ksi)	1.05	1.05	1.05	36.0000	36.0000	36.0000
T5 260.00-240.00	0.00	0.0000	A36 (36 ksi)	1.05	1.05	1.05	36.0000	36.0000	36.0000
T6 240.00-220.00	0.00	0.0000	A36 (36 ksi)	1.05	1.05	1.05	36.0000	36.0000	36.0000
T7 220.00-200.00	0.00	0.0000	A36 (36 ksi)	1.05	1.05	1.05	36.0000	36.0000	36.0000
T8 200.00-180.00	0.00	0.0000	A36 (36 ksi)	1.05	1.05	1.05	36.0000	36.0000	36.0000
T9 180.00-160.00	0.00	0.0000	A36 (36 ksi)	1.05	1.05	1.05	36.0000	36.0000	36.0000
T10 160.00-140.00	0.00	0.0000	A36 (36 ksi)	1.05	1.05	1.05	36.0000	36.0000	36.0000
T11 140.00-120.00	0.00	0.0000	A36 (36 ksi)	1.05	1.05	1.05	36.0000	36.0000	36.0000
T12 120.00-100.00	0.00	0.0000	A36 (36 ksi)	1.05	1.05	1.05	36.0000	36.0000	36.0000
T13 100.00-80.00	0.00	0.0000	A36 (36 ksi)	1.05	1.05	1.05	36.0000	36.0000	36.0000
T14 80.00-60.00	0.00	0.0000	A36 (36 ksi)	1.05	1.05	1.05	36.0000	36.0000	36.0000
T15 60.00-40.00	0.00	0.0000	A36 (36 ksi)	1.05	1.05	1.05	36.0000	36.0000	36.0000
T16 40.00-20.00	0.00	0.0000	A36 (36 ksi)	1.05	1.05	1.05	36.0000	36.0000	36.0000
T17 20.00-12.00	0.00	0.0000	A36 (36 ksi)	1.05	1.05	1.05	36.0000	36.0000	36.0000
T18 12.00-6.67	0.00	0.0000	A36 (36 ksi)	1.05	1.05	1.05	36.0000	36.0000	36.0000
T19 6.67-0.00	0.00	0.0000	A36 (36 ksi)	1.05	1.05	1.05	36.0000	36.0000	36.0000

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Calc K Single Angles	Calc K Solid Rounds	K Factors[1]: Legs	X Brace Diags X Y	K Brace Diags X Y	Single Diags X Y	Girts X Y	Horiz. X Y	Sec. Horiz. X Y	Inner Brace X Y
T1	Yes	Yes	1	1	1	0.75	1	1	1	1
330.00-320.00				1	1	0.75	0.75	1	1	1
T2	Yes	Yes	1	1	1	1	1	1	1	1
320.00-300.00				1	1	1	0.75	1	1	1
T3	Yes	Yes	1	1	1	1	1	1	1	1
300.00-280.00				1	1	1	0.75	1	1	1
T4	Yes	Yes	1	1	1	1	1	1	1	1
280.00-260.00				1	1	1	0.75	1	1	1

Tower Elevation ft	Calc K Single Angles	Calc K Solid Rounds	K Factors[1] Legs	X Brace Diags X Y	K Brace Diags X Y	Single Diags X Y	Girts X Y	Horiz. X Y	Sec. Horiz. X Y	Inner Brace X Y
T5	Yes	Yes	1	1	1	1	1	1	1	1
260.00-240.00				1	1	1	0.75	1	1	1
T6	Yes	Yes	1	1	1	1	1	1	1	1
240.00-220.00				1	1	1	0.75	1	1	1
T7	Yes	Yes	1	1	1	1	1	1	1	1
220.00-200.00				1	1	1	0.75	1	1	1
T8	Yes	Yes	1	1	1	1	1	1	1	1
200.00-180.00				1	1	1	0.75	1	1	1
T9	Yes	Yes	1	1	1	1	1	1	1	1
180.00-160.00				1	1	1	0.75	1	1	1
T10	Yes	Yes	1	1	1	1	1	1	1	1
160.00-140.00				1	1	1	0.75	1	1	1
T11	Yes	Yes	1	1	1	1	1	1	1	1
140.00-120.00				1	1	1	0.75	1	1	1
T12	Yes	Yes	1	1	1	1	1	1	1	1
120.00-100.00				1	1	1	0.75	1	1	1
T13	Yes	Yes	1	1	1	1	1	1	1	1
100.00-80.00				1	1	1	0.75	1	1	1
T14	Yes	Yes	1	1	1	1	1	1	1	1
80.00-60.00				1	1	1	0.75	1	1	1
T15	Yes	Yes	1	1	1	1	1	1	1	1
60.00-40.00				1	1	1	0.75	1	1	1
T16	Yes	Yes	1	1	1	1	1	1	1	1
40.00-20.00				1	1	1	0.75	1	1	1
T17	Yes	Yes	1	1	1	1	1	1	1	1
20.00-12.00				1	1	1	0.75	1	1	1
T18	Yes	Yes	0.75	1	1	1	1	1	1	1
12.00-6.67				1	1	1	1	1	1	1
T19 6.67-0.00	Yes	Yes	1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1

[1]*Note: K factors are applied to member segment lengths. K-braces without inner supporting members will have the K factor in the out-of-plane direction applied to the overall length.*

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Leg Net Width Deduct in	Leg U	Diagonal Net Width Deduct in	Diagonal U	Top Girt Net Width Deduct in	Top Girt U	Bottom Girt Net Width Deduct in	Bottom Girt U	Mid Girt Net Width Deduct in	Mid Girt U	Long Horizontal Net Width Deduct in	Long Horizontal U	Short Horizontal Net Width Deduct in	Short Horizontal U
T1	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
330.00-320.00														
T2	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
320.00-300.00														
T3	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
300.00-280.00														
T4	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
280.00-260.00														
T5	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
260.00-240.00														
T6	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
240.00-220.00														

Tower Elevation ft	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T7 220.00-200.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T8 200.00-180.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T9 180.00-160.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T10 160.00-140.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T11 140.00-120.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T12 120.00-100.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T13 100.00-80.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T14 80.00-60.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T15 60.00-40.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T16 40.00-20.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T17 20.00-12.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T18 12.00-6.67	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T19 6.67-0.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T1 330.00-320.00	Flange	1.1250 A325N	9	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T2 320.00-300.00	Flange	0.7500 A325N	5	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T3 300.00-280.00	Flange	0.7500 A325N	5	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T4 280.00-260.00	Flange	0.7500 A325N	5	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T5 260.00-240.00	Flange	0.7500 A325N	5	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T6 240.00-220.00	Flange	0.7500 A325N	5	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T7 220.00-200.00	Flange	0.7500 A325N	5	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T8 200.00-180.00	Flange	0.8750 A325N	5	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T9 180.00-160.00	Flange	0.8750 A325N	5	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T10 160.00-140.00	Flange	0.8750 A325N	5	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0

Tower Elevation ft	Leg Connection Type	Leg Bolt Size in	Leg No.	Diagonal Bolt Size in	Diagonal No.	Top Girt Bolt Size in	Top Girt No.	Bottom Girt Bolt Size in	Bottom Girt No.	Mid Girt Bolt Size in	Mid Girt No.	Long Horizontal Bolt Size in	Long Horizontal No.	Short Horizontal Bolt Size in	Short Horizontal No.
T11 140.00-120.00	Flange	0.8750 A325N	5	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T12 120.00-100.00	Flange	0.8750 A325N	5	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T13 100.00-80.00	Flange	0.8750 A325N	5	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T14 80.00-60.00	Flange	0.7500 A325N	5	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T15 60.00-40.00	Flange	0.7500 A325N	5	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T16 40.00-20.00	Flange	0.7500 A325N	5	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T17 20.00-12.00	Flange	0.7500 A325N	5	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T18 12.00-6.67	Flange	0.0000 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T19 6.67-0.00	Flange	1.7500 A325N	3	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0

Guy Data

Guy Elevation ft	Guy Grade		Guy Size	Initial Tension lb	%	Guy Modulus ksi	Guy Weight plf	L_u ft	Anchor Radius ft	Anchor Azimuth Adj. °	Anchor Elevation ft	End Fitting Efficiency %
330	BS	A	11/16	5800.00	10%	24000	0.990	371.28	200.00	0.0000	15.00	100%
		B	11/16	5800.00	10%	24000	0.990	416.88	205.00	0.0000	-35.00	100%
		C	11/16	5800.00	10%	24000	0.990	382.40	205.00	0.0000	5.00	100%
270.098	BS	A	13/16	8000.00	10%	24000	1.390	322.12	200.00	0.0000	15.00	100%
		B	13/16	8000.00	10%	24000	1.390	365.67	205.00	0.0000	-35.00	100%
		C	13/16	8000.00	10%	24000	1.390	333.09	205.00	0.0000	5.00	100%
177.25	BS	A	15/16	10800.00	10%	24000	1.850	255.57	200.00	0.0000	15.00	100%
		B	15/16	10800.00	10%	24000	1.850	293.27	205.00	0.0000	-35.00	100%
		C	15/16	10800.00	10%	24000	1.850	265.81	205.00	0.0000	5.00	100%
99.9167	BS	A	15/16	10800.00	10%	24000	1.850	214.45	200.00	0.0000	15.00	100%
		B	15/16	10800.00	10%	24000	1.850	242.81	205.00	0.0000	-35.00	100%
		C	15/16	10800.00	10%	24000	1.850	223.11	205.00	0.0000	5.00	100%
297.462	BS	A	9/16	3800.00	10%	24000	0.660	344.16	200.00	0.0000	15.00	100%
		B	9/16	3800.00	10%	24000	0.660	388.76	205.00	0.0000	-35.00	100%
		C	9/16	3800.00	10%	24000	0.660	355.22	205.00	0.0000	5.00	100%

Guy Data*(cont'd)*

Guy Elevation ft	Mount Type	Torque-Arm Spread ft	Torque-Arm Leg Angle °	Torque-Arm Style	Torque-Arm Grade	Torque-Arm Type	Torque-Arm Size
330	Corner						
270.098	Corner						
177.25	Torque Arm	8.00	30.0000	Wing	A36	Double Angle	2L4x4x3/8

Guy Elevation ft	Mount Type	Torque-Arm Spread ft	Torque-Arm Leg Angle °	Torque-Arm Style	Torque-Arm Grade	Torque-Arm Type	Torque-Arm Size
					(36 ksi)		
99.9167	Corner						
297.462	Corner						

Guy Data *(cont'd)*

Guy Elevation ft	Diagonal Grade	Diagonal Type	Upper Diagonal Size	Lower Diagonal Size	Is Strap.	Pull-Off Grade	Pull-Off Type	Pull-Off Size
330.00	A572-50 (50 ksi)	Solid Round				A572-50 (50 ksi)	Solid Round	
270.10	A572-50 (50 ksi)	Solid Round				A572-50 (50 ksi)	Solid Round	
177.25	A572-50 (50 ksi)	Solid Round				A572-50 (50 ksi)	Solid Round	
99.92	A572-50 (50 ksi)	Solid Round				A572-50 (50 ksi)	Solid Round	
297.46	A572-50 (50 ksi)	Solid Round				A572-50 (50 ksi)	Solid Round	

Guy Data *(cont'd)*

Guy Elevation ft	Cable Weight A lb	Cable Weight B lb	Cable Weight C lb	Cable Weight D lb	Tower Intercept A ft	Tower Intercept B ft	Tower Intercept C ft	Tower Intercept D ft
330	367.57	412.71	378.58		11.47 5.8 sec/pulse	14.40 6.6 sec/pulse	12.16 6.0 sec/pulse	
270.098	447.74	508.28	462.99		8.83 5.1 sec/pulse	11.33 5.8 sec/pulse	9.43 5.3 sec/pulse	
177.25	472.80	542.55	491.75		5.52 4.1 sec/pulse	7.24 4.6 sec/pulse	5.97 4.2 sec/pulse	
99.9167	396.74	449.20	412.75		3.91 3.4 sec/pulse	5.00 3.9 sec/pulse	4.23 3.6 sec/pulse	
297.462	227.15	256.58	234.44		10.05 5.5 sec/pulse	12.77 6.2 sec/pulse	10.70 5.6 sec/pulse	

Guy Data *(cont'd)*

Guy Elevation ft	Calc K Single Angles	Calc K Solid Rounds	Torque Arm K_x	Torque Arm K_y	Pull Off K_x	Pull Off K_y	Diagonal K_x	Diagonal K_y
330	No	No			1	1	1	1
270.098	No	No			1	1	1	1
177.25	No	No	0.75	0.75	1	1	1	1

Guy Elevation ft	Calc K Single Angles	Calc K Solid Rounds	Torque Arm K_x	Torque Arm K_y	Pull Off K_x	Pull Off K_y	Diagonal K_x	Diagonal K_y
99.9167	No	No			1	1	1	1
297.462	No	No			1	1	1	1

Guy Data *(cont'd)*

Guy Elevation ft	Torque-Arm Bolt Size in	Torque-Arm Number	Torque-Arm Net Width Deduct in	Torque-Arm U	Pull Off Bolt Size in	Pull Off Number	Pull Off Net Width Deduct in	Pull Off U	Diagonal Bolt Size in	Diagonal Number	Diagonal Net Width Deduct in	Diagonal U
330	0.6250 A325N	0	0.0000	0.75	0.6250 A325N	0	0.0000	0.75	0.6250 A325N	0	0.0000	0.75
270.098	0.6250 A325N	0	0.0000	0.75	0.6250 A325N	0	0.0000	0.75	0.6250 A325N	0	0.0000	0.75
177.25	1.0000 A325N	4	0.0000	1	0.6250 A325N	0	0.0000	0.75	0.6250 A325N	0	0.0000	0.75
99.9167	0.6250 A325N	0	0.0000	0.75	0.6250 A325N	0	0.0000	0.75	0.6250 A325N	0	0.0000	0.75
297.462	0.6250 A325N	0	0.0000	0.75	0.6250 A325N	0	0.0000	0.75	0.6250 A325N	0	0.0000	0.75

Guy Pressures

Guy Elevation ft	Guy Location	z ft	q_z psf	q_z Ice psf	Ice Thickness in
330	A	172.50	26	8	1.7698
	B	147.50	25	7	1.7423
	C	167.50	25	8	1.7646
270.098	A	142.55	25	7	1.7363
	B	117.55	24	7	1.7032
	C	137.55	24	7	1.7302
177.25	A	96.13	23	7	1.6693
	B	71.13	21	6	1.6197
	C	91.13	22	7	1.6604
99.9167	A	57.46	20	6	1.5855
	B	32.46	18	5	1.4975
	C	52.46	20	6	1.5712
297.462	A	156.23	25	8	1.7523
	B	131.23	24	7	1.7220
	C	151.23	25	8	1.7466

Guy-Tensioning Information

Guy Elevation ft	H ft	V ft	Temperature At Time Of Tensioning: 0 F Initial Tension lb	0 F Intercept ft	20 F Initial Tension lb	20 F Intercept ft	40 F Initial Tension lb	40 F Intercept ft	60 F Initial Tension lb	60 F Intercept ft	80 F Initial Tension lb	80 F Intercept ft	100 F Initial Tension lb	100 F Intercept ft	120 F Initial Tension lb	120 F Intercept ft

				Temperature At Time Of Tensioning													
				0 F		20 F		40 F		60 F		80 F		100 F		120 F	
Guy Elevation ft		H ft	V ft	Initial Tension lb	Intercept ft	Initial Tension lb	Intercept ft	Initial Tension lb	Intercept ft	Initial Tension lb	Intercept ft	Initial Tension lb	Intercept ft	Initial Tension lb	Intercept ft	Initial Tension lb	Intercept ft
330	A	197.11	315.00	6489	10.27	6257	10.65	6028	11.04	5800	11.47	5575	11.92	5353	12.40	5133	12.92
	B	202.11	365.00	6372	13.14	6180	13.53	5989	13.96	5800	14.40	5613	14.87	5427	15.36	5244	15.88
	C	202.11	325.00	6480	10.91	6251	11.30	6025	11.71	5800	12.16	5578	12.63	5359	13.13	5143	13.67
270.098	A	197.11	255.10	9276	7.63	8846	8.00	8420	8.39	8000	8.83	7586	9.30	7180	9.81	6782	10.38
	B	202.11	305.10	9034	10.06	8686	10.45	8341	10.87	8000	11.33	7663	11.81	7332	12.34	7005	12.89
	C	202.11	265.10	9249	8.18	8828	8.56	8411	8.98	8000	9.43	7595	9.92	7198	10.46	6809	11.04
177.25	A	197.73	162.25	13540	4.42	12612	4.74	11698	5.10	10800	5.52	9923	6.00	9074	6.56	8260	7.19
	B	202.73	212.25	12975	6.04	12240	6.40	11514	6.80	10800	7.24	10099	7.74	9415	8.29	8752	8.90
	C	202.73	172.25	13451	4.80	12554	5.14	11669	5.53	10800	5.97	9952	6.47	9131	7.04	8342	7.70
99.9167	A	197.11	84.92	14695	2.88	13372	3.16	12071	3.50	10800	3.91	9572	4.41	8405	5.02	7323	5.76
	B	202.11	134.92	13970	3.87	12895	4.19	11836	4.56	10800	5.00	9793	5.50	8826	6.10	7910	6.80
	C	202.11	94.92	14568	3.14	13288	3.44	12029	3.80	10800	4.23	9613	4.75	8484	5.38	7436	6.13
297.462	A	197.11	282.46	4335	8.83	4155	9.21	3976	9.61	3800	10.05	3626	10.52	3455	11.03	3287	11.58
	B	202.11	332.46	4238	11.48	4091	11.88	3945	12.31	3800	12.77	3657	13.26	3516	13.77	3377	14.33
	C	202.11	292.46	4326	9.42	4149	9.82	3973	10.24	3800	10.70	3629	11.19	3461	11.72	3296	12.29

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
LDF7-50A (1-5/8 FOAM) (AT&T)	B	No	Ar (CaAa)	200.00 - 6.66	0.0000	-0.35	4	4	0.5000 1.5000	1.9800		0.82
LMR-240 (3/4 FOAM) (AT&T)	B	No	Ar (CaAa)	200.00 - 6.66	0.0000	-0.3	2	2	0.2500	0.2400		0.04
FSJ2-50 (3/8 SUPERFLEX. FOAM) (AT&T)	B	No	Ar (CaAa)	200.00 - 6.66	0.0000	-0.25	1	1	0.4300	0.4300		0.08
LDF7-50A (1-5/8 FOAM) (AT&T)	B	No	Ar (CaAa)	200.00 - 6.66	-3.0000	-0.26	6	3	0.1000 0.2500	1.9800		0.82
LDF7-50A (1-5/8 FOAM) (AT&T)	B	No	Ar (CaAa)	200.00 - 6.66	-1.0000	-0.36	2	2	0.1000 0.2500	1.9800		0.82
LDF5-50A (7/8 FOAM)	B	No	Ar (CaAa)	219.50 - 6.66	0.0000	0.3	1	1	1.0900	1.0900		0.33
LDF4P-50A (1/2 FOAM)	B	No	Ar (CaAa)	90.00 - 6.66	0.0000	0.35	1	1	0.6300	0.6300		0.15
LDF5-50A (7/8 FOAM)	B	No	Ar (CaAa)	136.00 - 6.66	0.0000	0.4	1	1	1.0900	1.0900		0.33
LDF12-50A (2-1/4 FOAM)	B	No	Ar (CaAa)	297.33 - 6.66	0.0000	0.45	1	1	2.3500	2.3500		1.22
LDF7-50A (1-5/8 FOAM) (Verizon)	B	No	Ar (CaAa)	169.50 - 6.66	-5.0000	0.37	12	4	0.1000 0.2500	1.9800		0.82
LDF4P-50A (1/2 FOAM)	C	No	Ar (CaAa)	36.00 - 6.66	0.0000	-0.45	2	2	0.6300	0.6300		0.15
1 1/2" Rigid Conduit	C	No	Ar (CaAa)	345.00 - 6.66	0.0000	0	1	1	1.5000	1.5000		1.00
LDF5-50A (7/8 FOAM)	C	No	Ar (CaAa)	264.25 - 6.66	0.0000	0.4	1	1	1.0900	1.0900		0.33
LDF6-50A (1-1/4 FOAM)	C	No	Ar (CaAa)	205.50 - 6.66	0.0000	0.45	1	1	1.5500	1.5500		0.66
LDF7-50A (1-5/8 FOAM)	C	No	Ar (CaAa)	251.00 - 6.66	-1.0000	0.18	1	1	1.9800	1.9800		0.82

Description	Face or Leg	Allow Shield	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
LDF6-50A (1-1/4 FOAM)	C	No	Ar (CaAa)	294.00 - 6.66	-1.0000	0.3	3	3	2.0000 0.2500	1.5500		0.66
LDF4P-50A (1/2 FOAM)	C	No	Ar (CaAa)	332.50 - 6.66	-1.0000	0.38	1	1	0.6300	0.6300		0.15
LDF4P-50A (1/2 FOAM)	C	No	Ar (CaAa)	274.00 - 6.66	-1.0000	0.4	1	1	0.6300	0.6300		0.15
LDF7-50A (1-5/8 FOAM)	A	No	Ar (CaAa)	274.00 - 6.66	0.0000	-0.4	1	1	1.9800	1.9800		0.82
LDF7-50A (1-5/8 FOAM)	A	No	Ar (CaAa)	308.00 - 6.66	0.0000	-0.3	1	1	1.9800	1.9800		0.82
LDF7-50A (1-5/8 FOAM)	A	No	Ar (CaAa)	317.50 - 6.66	0.0000	-0.28	1	1	1.9800	1.9800		0.82
LDF4P-50A (1/2 FOAM)	A	No	Ar (CaAa)	312.00 - 6.66	0.0000	-0.24	1	1	0.6300	0.6300		0.15
LDF4P-50A (1/2 FOAM)	A	No	Ar (CaAa)	279.00 - 6.66	0.0000	-0.2	1	1	0.6300	0.6300		0.15
LDF7-50A (1-5/8 FOAM)	A	No	Ar (CaAa)	342.25 - 6.66	0.0000	-0.16	1	1	1.9800	1.9800		0.82
LDF7-50A (1-5/8 FOAM)	A	No	Ar (CaAa)	130.00 - 6.66	-1.0000	-0.24	1	1	1.9800	1.9800		0.82
LDF7-50A (1-5/8 FOAM)	A	No	Ar (CaAa)	112.00 - 6.66	-1.0000	-0.28	1	1	1.9800	1.9800		0.82
LDF7-50A (1-5/8 FOAM)	A	No	Ar (CaAa)	204.00 - 6.66	-1.0000	-0.32	1	1	1.9800	1.9800		0.82
LDF5-50A (7/8 FOAM)	A	No	Ar (CaAa)	252.00 - 6.66	0.0000	0.18	1	1	1.0900	1.0900		0.33
LDF4.5-50 (5/8 FOAM)	A	No	Ar (CaAa)	150.60 - 6.66	0.0000	0.21	1	1	0.8700	0.8700		0.15
LDF6-50A (1-1/4 FOAM)	A	No	Ar (CaAa)	209.00 - 6.66	0.0000	0.24	1	1	1.5500	1.5500		0.66
LDF7-50A (1-5/8 FOAM) (Sprint)	A	No	Ar (CaAa)	226.50 - 6.66	0.0000	0.4	6	6	0.5000 1.5000	1.9800		0.82
LDF7-50A (1-5/8 FOAM) (T-Mobile)	A	No	Ar (CaAa)	188.50 - 6.66	-1.0000	0.2	2	2	1.9800	1.9800		0.82
LDF7-50A (1-5/8 FOAM) (T-Mobile)	A	No	Ar (CaAa)	188.50 - 6.66	-1.0000	0.3	4	4	1.9800	1.9800		0.82
LDF6-50A (1-1/4 FOAM) (T-Mobile)	A	No	Ar (CaAa)	188.50 - 6.66	-1.0000	0.4	1	1	1.5500	1.5500		0.66
LDF6-50A (1-1/4 FOAM) (T-Mobile)	A	No	Ar (CaAa)	188.50 - 6.66	-1.0000	0.43	1	1	1.5500	1.5500		0.66
LDF1-50A (1/4 FOAM)	A	No	Ar (CaAa)	106.50 - 6.66	-1.0000	0.45	2	2	0.3500	0.3500		0.06
CA-0182 (3/16 Solid Bare Copp)	A	No	Ar (CaAa)	123.50 - 6.66	-1.0000	0.49	1	1	0.2500	0.2000		0.02

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#		C_AA_A ft^2/ft	Weight plf
Climbing	A	No	CaAa (In Face)	345.00 - 6.66	0.0000	-0.25	1	No Ice	0.29	7.90

Description	Face or Leg	Allow Shield	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#		C_AA_A ft^2/ft	Weight plf
Ladder								1/2" Ice	0.55	10.60
								1" Ice	0.81	13.30
Safety Line 3/8	A	No	CaAa (In Face)	330.00 - 6.66	0.0000	0	1	No Ice	0.04	0.22
								1/2" Ice	0.14	0.75
								1" Ice	0.24	1.28
Feedline Ladder (Af)	C	No	CaAa (In Face)	330.00 - 6.66	0.0000	-0.25	1	No Ice	0.50	8.40
								1/2" Ice	0.61	13.50
								1" Ice	0.72	18.60
Feedline Ladder (Af)	B	No	CaAa (In Face)	330.00 - 6.66	0.0000	-0.25	1	No Ice	0.50	8.40
								1/2" Ice	0.61	13.50
								1" Ice	0.72	18.60
Feedline Ladder (Af)	A	No	CaAa (In Face)	330.00 - 6.66	0.0000	-0.25	1	No Ice	0.50	8.40
								1/2" Ice	0.61	13.50
								1" Ice	0.72	18.60
Feedline Ladder (Af)	A	No	CaAa (In Face)	330.00 - 6.66	0.0000	0.25	1	No Ice	0.50	8.40
								1/2" Ice	0.61	13.50
								1" Ice	0.72	18.60

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 lb
L1	345.00-330.00	A	0.000	0.000	6.776	0.000	128.54
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	2.408	0.000	15.38
T1	330.00-320.00	A	0.000	0.000	15.255	0.000	257.40
		B	0.000	0.000	5.000	0.000	84.00
		C	0.000	0.000	7.130	0.000	95.50
T2	320.00-300.00	A	0.000	0.000	36.315	0.000	537.51
		B	0.000	0.000	10.000	0.000	168.00
		C	0.000	0.000	14.260	0.000	191.00
T3	300.00-280.00	A	0.000	0.000	39.690	0.000	550.60
		B	0.000	0.000	14.073	0.000	189.14
		C	0.000	0.000	20.770	0.000	218.72
T4	280.00-260.00	A	0.000	0.000	43.659	0.000	564.93
		B	0.000	0.000	14.700	0.000	192.40
		C	0.000	0.000	24.905	0.000	234.10
T5	260.00-240.00	A	0.000	0.000	46.218	0.000	573.96
		B	0.000	0.000	14.700	0.000	192.40
		C	0.000	0.000	29.178	0.000	249.22
T6	240.00-220.00	A	0.000	0.000	54.812	0.000	608.58
		B	0.000	0.000	14.700	0.000	192.40
		C	0.000	0.000	30.960	0.000	256.60
T7	220.00-200.00	A	0.000	0.000	73.037	0.000	684.22
		B	0.000	0.000	16.826	0.000	198.84
		C	0.000	0.000	31.813	0.000	260.23
T8	200.00-180.00	A	0.000	0.000	90.643	0.000	757.64
		B	0.000	0.000	66.220	0.000	399.00
		C	0.000	0.000	34.060	0.000	269.80
T9	180.00-160.00	A	0.000	0.000	107.870	0.000	829.40
		B	0.000	0.000	88.792	0.000	492.48
		C	0.000	0.000	34.060	0.000	269.80
T10	160.00-140.00	A	0.000	0.000	108.792	0.000	830.99
		B	0.000	0.000	113.740	0.000	595.80
		C	0.000	0.000	34.060	0.000	269.80
T11	140.00-120.00	A	0.000	0.000	111.660	0.000	840.67
		B	0.000	0.000	115.484	0.000	601.08

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 lb
		C	0.000	0.000	34.060	0.000	269.80
T12	120.00-100.00	A	0.000	0.000	116.801	0.000	859.82
		B	0.000	0.000	115.920	0.000	602.40
		C	0.000	0.000	34.060	0.000	269.80
T13	100.00-80.00	A	0.000	0.000	119.330	0.000	868.00
		B	0.000	0.000	116.550	0.000	603.90
		C	0.000	0.000	34.060	0.000	269.80
T14	80.00-60.00	A	0.000	0.000	119.330	0.000	868.00
		B	0.000	0.000	117.180	0.000	605.40
		C	0.000	0.000	34.060	0.000	269.80
T15	60.00-40.00	A	0.000	0.000	119.330	0.000	868.00
		B	0.000	0.000	117.180	0.000	605.40
		C	0.000	0.000	34.060	0.000	269.80
T16	40.00-20.00	A	0.000	0.000	119.330	0.000	868.00
		B	0.000	0.000	117.180	0.000	605.40
		C	0.000	0.000	36.076	0.000	274.60
T17	20.00-12.00	A	0.000	0.000	47.732	0.000	347.20
		B	0.000	0.000	46.872	0.000	242.16
		C	0.000	0.000	14.632	0.000	110.32
T18	12.00-6.67	A	0.000	0.000	31.821	0.000	231.47
		B	0.000	0.000	31.248	0.000	161.44
		C	0.000	0.000	9.755	0.000	73.55
T19	6.67-0.00	A	0.000	0.000	0.040	0.000	0.29
		B	0.000	0.000	0.039	0.000	0.20
		C	0.000	0.000	0.012	0.000	0.09

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 lb
L1	345.00-330.00	A	1.893	0.000	0.000	26.175	0.000	391.54
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	9.032	0.000	147.63
T1	330.00-320.00	A	1.886	0.000	0.000	40.982	0.000	852.89
		B		0.000	0.000	9.190	0.000	276.32
		C		0.000	0.000	18.862	0.000	423.76
T2	320.00-300.00	A	1.877	0.000	0.000	101.600	0.000	2016.91
		B		0.000	0.000	18.341	0.000	550.83
		C		0.000	0.000	37.614	0.000	843.60
T3	300.00-280.00	A	1.864	0.000	0.000	112.930	0.000	2190.92
		B		0.000	0.000	28.819	0.000	735.76
		C		0.000	0.000	61.008	0.000	1158.20
T4	280.00-260.00	A	1.851	0.000	0.000	128.593	0.000	2419.04
		B		0.000	0.000	30.330	0.000	759.96
		C		0.000	0.000	78.949	0.000	1396.69
T5	260.00-240.00	A	1.837	0.000	0.000	137.481	0.000	2545.98
		B		0.000	0.000	30.210	0.000	754.98
		C		0.000	0.000	94.930	0.000	1631.69
T6	240.00-220.00	A	1.821	0.000	0.000	155.849	0.000	2803.90
		B		0.000	0.000	30.081	0.000	749.63
		C		0.000	0.000	99.546	0.000	1700.42
T7	220.00-200.00	A	1.805	0.000	0.000	193.639	0.000	3350.25
		B		0.000	0.000	39.106	0.000	874.77
		C		0.000	0.000	101.872	0.000	1727.81
T8	200.00-180.00	A	1.787	0.000	0.000	246.937	0.000	4116.51
		B		0.000	0.000	151.551	0.000	2306.61
		C		0.000	0.000	108.725	0.000	1824.04

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 lb
T9	180.00-160.00	A	1.767	0.000	0.000	299.147	0.000	4828.98
		B		0.000	0.000	168.986	0.000	2646.68
		C		0.000	0.000	108.034	0.000	1801.49
T10	160.00-140.00	A	1.745	0.000	0.000	301.865	0.000	4829.53
		B		0.000	0.000	188.096	0.000	3015.91
		C		0.000	0.000	107.265	0.000	1776.58
T11	140.00-120.00	A	1.720	0.000	0.000	310.411	0.000	4913.46
		B		0.000	0.000	194.078	0.000	3076.11
		C		0.000	0.000	106.397	0.000	1748.67
T12	120.00-100.00	A	1.692	0.000	0.000	330.175	0.000	5115.61
		B		0.000	0.000	194.320	0.000	3052.70
		C		0.000	0.000	105.401	0.000	1716.86
T13	100.00-80.00	A	1.658	0.000	0.000	340.562	0.000	5146.06
		B		0.000	0.000	196.415	0.000	3044.00
		C		0.000	0.000	104.225	0.000	1679.69
T14	80.00-60.00	A	1.617	0.000	0.000	336.051	0.000	5014.46
		B		0.000	0.000	197.930	0.000	3019.35
		C		0.000	0.000	102.787	0.000	1634.71
T15	60.00-40.00	A	1.564	0.000	0.000	330.187	0.000	4845.72
		B		0.000	0.000	194.769	0.000	2926.31
		C		0.000	0.000	100.917	0.000	1577.10
T16	40.00-20.00	A	1.486	0.000	0.000	321.657	0.000	4604.90
		B		0.000	0.000	190.172	0.000	2793.42
		C		0.000	0.000	110.298	0.000	1587.56
T17	20.00-12.00	A	1.395	0.000	0.000	124.699	0.000	1732.81
		B		0.000	0.000	73.932	0.000	1057.06
		C		0.000	0.000	43.812	0.000	603.33
T18	12.00-6.67	A	1.322	0.000	0.000	80.996	0.000	1097.83
		B		0.000	0.000	48.136	0.000	672.97
		C		0.000	0.000	28.391	0.000	380.77
T19	6.67-0.00	A	1.193	0.000	0.000	0.097	0.000	1.26
		B		0.000	0.000	0.058	0.000	0.78
		C		0.000	0.000	0.034	0.000	0.43

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
L1	345.00-330.00	-1.1552	0.4530	-0.4402	0.1731
T1	330.00-320.00	-1.0808	-0.4189	-1.1773	-0.0352
T2	320.00-300.00	-1.4578	-0.2967	-1.6563	0.0612
T3	300.00-280.00	-1.4524	0.2213	-1.5810	0.3847
T4	280.00-260.00	-1.7146	0.4615	-1.8715	0.5936
T5	260.00-240.00	-1.8826	0.5686	-2.0642	0.6940
T6	240.00-220.00	-1.8407	0.0668	-2.0274	0.4635
T7	220.00-200.00	-1.6603	-0.7663	-1.7997	0.0669
T8	200.00-180.00	-1.1459	-2.0655	-1.4272	-0.6321
T9	180.00-160.00	-0.8131	-2.0854	-1.2546	-0.8513
T10	160.00-140.00	-0.4961	-1.8548	-1.1593	-0.8293
T11	140.00-120.00	-0.4872	-1.8097	-1.1082	-0.8191
T12	120.00-100.00	-0.5538	-1.7654	-1.1408	-0.8454
T13	100.00-80.00	-0.5648	-1.7565	-1.1107	-0.8262
T14	80.00-60.00	-0.5480	-1.7467	-1.0670	-0.8210
T15	60.00-40.00	-0.5480	-1.7467	-1.0646	-0.8378
T16	40.00-20.00	-0.4926	-1.6999	-1.0198	-0.8339
T17	20.00-12.00	-0.4732	-1.6682	-0.9709	-0.8288

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
T18	12.00-6.67	-0.4812	-1.6965	-1.0118	-0.8945
T19	6.67-0.00	-0.0046	-0.0161	-0.0005	-0.0004

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L1	12	1 1/2" Rigid Conduit	330.00 - 345.00	0.6000	0.1932
L1	17	LDF4P-50A (1/2 FOAM)	330.00 - 332.50	0.6000	0.1932
L1	24	LDF7-50A (1-5/8 FOAM)	330.00 - 342.25	0.6000	0.1932
L1	38	Climbing Ladder	330.00 - 345.00	0.6000	0.1932
T1	12	1 1/2" Rigid Conduit	320.00 - 330.00	0.6000	0.3845
T1	17	LDF4P-50A (1/2 FOAM)	320.00 - 330.00	0.6000	0.3845
T1	24	LDF7-50A (1-5/8 FOAM)	320.00 - 330.00	0.6000	0.3845
T1	38	Climbing Ladder	320.00 - 330.00	0.6000	0.3845
T1	39	Safety Line 3/8	320.00 - 330.00	0.6000	0.3845
T1	40	Feedline Ladder (Af)	320.00 - 330.00	0.6000	0.3845
T1	41	Feedline Ladder (Af)	320.00 - 330.00	0.6000	0.3845
T1	42	Feedline Ladder (Af)	320.00 - 330.00	0.6000	0.3845
T1	43	Feedline Ladder (Af)	320.00 - 330.00	0.6000	0.3845
T2	12	1 1/2" Rigid Conduit	300.00 - 320.00	0.6000	0.4386
T2	17	LDF4P-50A (1/2 FOAM)	300.00 - 320.00	0.6000	0.4386
T2	20	LDF7-50A (1-5/8 FOAM)	300.00 - 308.00	0.6000	0.4386
T2	21	LDF7-50A (1-5/8 FOAM)	300.00 - 317.50	0.6000	0.4386
T2	22	LDF4P-50A (1/2 FOAM)	300.00 - 312.00	0.6000	0.4386
T2	24	LDF7-50A (1-5/8 FOAM)	300.00 - 320.00	0.6000	0.4386
T2	38	Climbing Ladder	300.00 - 320.00	0.6000	0.4386
T2	39	Safety Line 3/8	300.00 - 320.00	0.6000	0.4386
T2	40	Feedline Ladder (Af)	300.00 - 320.00	0.6000	0.4386
T2	41	Feedline Ladder (Af)	300.00 - 320.00	0.6000	0.4386
T2	42	Feedline Ladder (Af)	300.00 - 320.00	0.6000	0.4386

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T2	43	Feedline Ladder (Af)	300.00 - 320.00	0.6000	0.4386
T3	9	LDF12-50A (2-1/4 FOAM)	280.00 - 297.33	0.6000	0.4412
T3	12	1 1/2" Rigid Conduit	280.00 - 300.00	0.6000	0.4412
T3	16	LDF6-50A (1-1/4 FOAM)	280.00 - 294.00	0.6000	0.4412
T3	17	LDF4P-50A (1/2 FOAM)	280.00 - 300.00	0.6000	0.4412
T3	20	LDF7-50A (1-5/8 FOAM)	280.00 - 300.00	0.6000	0.4412
T3	21	LDF7-50A (1-5/8 FOAM)	280.00 - 300.00	0.6000	0.4412
T3	22	LDF4P-50A (1/2 FOAM)	280.00 - 300.00	0.6000	0.4412
T3	24	LDF7-50A (1-5/8 FOAM)	280.00 - 300.00	0.6000	0.4412
T3	38	Climbing Ladder	280.00 - 300.00	0.6000	0.4412
T3	39	Safety Line 3/8	280.00 - 300.00	0.6000	0.4412
T3	40	Feedline Ladder (Af)	280.00 - 300.00	0.6000	0.4412
T3	41	Feedline Ladder (Af)	280.00 - 300.00	0.6000	0.4412
T3	42	Feedline Ladder (Af)	280.00 - 300.00	0.6000	0.4412
T3	43	Feedline Ladder (Af)	280.00 - 300.00	0.6000	0.4412
T4	9	LDF12-50A (2-1/4 FOAM)	260.00 - 280.00	0.6000	0.4354
T4	12	1 1/2" Rigid Conduit	260.00 - 280.00	0.6000	0.4354
T4	13	LDF5-50A (7/8 FOAM)	260.00 - 264.25	0.6000	0.4354
T4	16	LDF6-50A (1-1/4 FOAM)	260.00 - 280.00	0.6000	0.4354
T4	17	LDF4P-50A (1/2 FOAM)	260.00 - 280.00	0.6000	0.4354
T4	18	LDF4P-50A (1/2 FOAM)	260.00 - 274.00	0.6000	0.4354
T4	19	LDF7-50A (1-5/8 FOAM)	260.00 - 274.00	0.6000	0.4354
T4	20	LDF7-50A (1-5/8 FOAM)	260.00 - 280.00	0.6000	0.4354
T4	21	LDF7-50A (1-5/8 FOAM)	260.00 - 280.00	0.6000	0.4354
T4	22	LDF4P-50A (1/2 FOAM)	260.00 - 280.00	0.6000	0.4354
T4	23	LDF4P-50A (1/2 FOAM)	260.00 - 279.00	0.6000	0.4354
T4	24	LDF7-50A (1-5/8 FOAM)	260.00 - 280.00	0.6000	0.4354
T4	38	Climbing Ladder	260.00 - 280.00	0.6000	0.4354
T4	39	Safety Line 3/8	260.00 - 280.00	0.6000	0.4354
T4	40	Feedline Ladder (Af)	260.00 - 280.00	0.6000	0.4354
T4	41	Feedline Ladder (Af)	260.00 - 280.00	0.6000	0.4354

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T4	42	Feedline Ladder (Af)	260.00 - 280.00	0.6000	0.4354
T4	43	Feedline Ladder (Af)	260.00 - 280.00	0.6000	0.4354
T5	9	LDF12-50A (2-1/4 FOAM)	240.00 - 260.00	0.6000	0.4383
T5	12	1 1/2" Rigid Conduit	240.00 - 260.00	0.6000	0.4383
T5	13	LDF5-50A (7/8 FOAM)	240.00 - 260.00	0.6000	0.4383
T5	15	LDF7-50A (1-5/8 FOAM)	240.00 - 251.00	0.6000	0.4383
T5	16	LDF6-50A (1-1/4 FOAM)	240.00 - 260.00	0.6000	0.4383
T5	17	LDF4P-50A (1/2 FOAM)	240.00 - 260.00	0.6000	0.4383
T5	18	LDF4P-50A (1/2 FOAM)	240.00 - 260.00	0.6000	0.4383
T5	19	LDF7-50A (1-5/8 FOAM)	240.00 - 260.00	0.6000	0.4383
T5	20	LDF7-50A (1-5/8 FOAM)	240.00 - 260.00	0.6000	0.4383
T5	21	LDF7-50A (1-5/8 FOAM)	240.00 - 260.00	0.6000	0.4383
T5	22	LDF4P-50A (1/2 FOAM)	240.00 - 260.00	0.6000	0.4383
T5	23	LDF4P-50A (1/2 FOAM)	240.00 - 260.00	0.6000	0.4383
T5	24	LDF7-50A (1-5/8 FOAM)	240.00 - 260.00	0.6000	0.4383
T5	28	LDF5-50A (7/8 FOAM)	240.00 - 252.00	0.6000	0.4383
T5	38	Climbing Ladder	240.00 - 260.00	0.6000	0.4383
T5	39	Safety Line 3/8	240.00 - 260.00	0.6000	0.4383
T5	40	Feedline Ladder (Af)	240.00 - 260.00	0.6000	0.4383
T5	41	Feedline Ladder (Af)	240.00 - 260.00	0.6000	0.4383
T5	42	Feedline Ladder (Af)	240.00 - 260.00	0.6000	0.4383
T5	43	Feedline Ladder (Af)	240.00 - 260.00	0.6000	0.4383
T6	9	LDF12-50A (2-1/4 FOAM)	220.00 - 240.00	0.6000	0.4415
T6	12	1 1/2" Rigid Conduit	220.00 - 240.00	0.6000	0.4415
T6	13	LDF5-50A (7/8 FOAM)	220.00 - 240.00	0.6000	0.4415
T6	15	LDF7-50A (1-5/8 FOAM)	220.00 - 240.00	0.6000	0.4415
T6	16	LDF6-50A (1-1/4 FOAM)	220.00 - 240.00	0.6000	0.4415
T6	17	LDF4P-50A (1/2 FOAM)	220.00 - 240.00	0.6000	0.4415
T6	18	LDF4P-50A (1/2 FOAM)	220.00 - 240.00	0.6000	0.4415
T6	19	LDF7-50A (1-5/8 FOAM)	220.00 - 240.00	0.6000	0.4415
T6	20	LDF7-50A (1-5/8 FOAM)	220.00 - 240.00	0.6000	0.4415

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T6	21	LDF7-50A (1-5/8 FOAM)	220.00 - 240.00	0.6000	0.4415
T6	22	LDF4P-50A (1/2 FOAM)	220.00 - 240.00	0.6000	0.4415
T6	23	LDF4P-50A (1/2 FOAM)	220.00 - 240.00	0.6000	0.4415
T6	24	LDF7-50A (1-5/8 FOAM)	220.00 - 240.00	0.6000	0.4415
T6	28	LDF5-50A (7/8 FOAM)	220.00 - 240.00	0.6000	0.4415
T6	31	LDF7-50A (1-5/8 FOAM)	220.00 - 226.50	0.6000	0.4415
T6	38	Climbing Ladder	220.00 - 240.00	0.6000	0.4415
T6	39	Safety Line 3/8	220.00 - 240.00	0.6000	0.4415
T6	40	Feedline Ladder (Af)	220.00 - 240.00	0.6000	0.4415
T6	41	Feedline Ladder (Af)	220.00 - 240.00	0.6000	0.4415
T6	42	Feedline Ladder (Af)	220.00 - 240.00	0.6000	0.4415
T6	43	Feedline Ladder (Af)	220.00 - 240.00	0.6000	0.4415
T7	6	LDF5-50A (7/8 FOAM)	200.00 - 219.50	0.6000	0.4380
T7	9	LDF12-50A (2-1/4 FOAM)	200.00 - 220.00	0.6000	0.4380
T7	12	1 1/2" Rigid Conduit	200.00 - 220.00	0.6000	0.4380
T7	13	LDF5-50A (7/8 FOAM)	200.00 - 220.00	0.6000	0.4380
T7	14	LDF6-50A (1-1/4 FOAM)	200.00 - 205.50	0.6000	0.4380
T7	15	LDF7-50A (1-5/8 FOAM)	200.00 - 220.00	0.6000	0.4380
T7	16	LDF6-50A (1-1/4 FOAM)	200.00 - 220.00	0.6000	0.4380
T7	17	LDF4P-50A (1/2 FOAM)	200.00 - 220.00	0.6000	0.4380
T7	18	LDF4P-50A (1/2 FOAM)	200.00 - 220.00	0.6000	0.4380
T7	19	LDF7-50A (1-5/8 FOAM)	200.00 - 220.00	0.6000	0.4380
T7	20	LDF7-50A (1-5/8 FOAM)	200.00 - 220.00	0.6000	0.4380
T7	21	LDF7-50A (1-5/8 FOAM)	200.00 - 220.00	0.6000	0.4380
T7	22	LDF4P-50A (1/2 FOAM)	200.00 - 220.00	0.6000	0.4380
T7	23	LDF4P-50A (1/2 FOAM)	200.00 - 220.00	0.6000	0.4380
T7	24	LDF7-50A (1-5/8 FOAM)	200.00 - 220.00	0.6000	0.4380
T7	27	LDF7-50A (1-5/8 FOAM)	200.00 - 204.00	0.6000	0.4380
T7	28	LDF5-50A (7/8 FOAM)	200.00 - 220.00	0.6000	0.4380
T7	30	LDF6-50A (1-1/4 FOAM)	200.00 - 209.00	0.6000	0.4380
T7	31	LDF7-50A (1-5/8 FOAM)	200.00 - 220.00	0.6000	0.4380

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T7	38	Climbing Ladder	200.00 - 220.00	0.6000	0.4380
T7	39	Safety Line 3/8	200.00 - 220.00	0.6000	0.4380
T7	40	Feedline Ladder (Af)	200.00 - 220.00	0.6000	0.4380
T7	41	Feedline Ladder (Af)	200.00 - 220.00	0.6000	0.4380
T7	42	Feedline Ladder (Af)	200.00 - 220.00	0.6000	0.4380
T7	43	Feedline Ladder (Af)	200.00 - 220.00	0.6000	0.4380
T8	1	LDF7-50A (1-5/8 FOAM)	180.00 - 200.00	0.6000	0.4179
T8	2	LMR-240 (3/4 FOAM)	180.00 - 200.00	0.6000	0.4179
T8	3	FSJ2-50 (3/8 SUPERFLEX. FOAM)	180.00 - 200.00	0.6000	0.4179
T8	4	LDF7-50A (1-5/8 FOAM)	180.00 - 200.00	0.6000	0.4179
T8	5	LDF7-50A (1-5/8 FOAM)	180.00 - 200.00	0.6000	0.4179
T8	6	LDF5-50A (7/8 FOAM)	180.00 - 200.00	0.6000	0.4179
T8	9	LDF12-50A (2-1/4 FOAM)	180.00 - 200.00	0.6000	0.4179
T8	12	1 1/2" Rigid Conduit	180.00 - 200.00	0.6000	0.4179
T8	13	LDF5-50A (7/8 FOAM)	180.00 - 200.00	0.6000	0.4179
T8	14	LDF6-50A (1-1/4 FOAM)	180.00 - 200.00	0.6000	0.4179
T8	15	LDF7-50A (1-5/8 FOAM)	180.00 - 200.00	0.6000	0.4179
T8	16	LDF6-50A (1-1/4 FOAM)	180.00 - 200.00	0.6000	0.4179
T8	17	LDF4P-50A (1/2 FOAM)	180.00 - 200.00	0.6000	0.4179
T8	18	LDF4P-50A (1/2 FOAM)	180.00 - 200.00	0.6000	0.4179
T8	19	LDF7-50A (1-5/8 FOAM)	180.00 - 200.00	0.6000	0.4179
T8	20	LDF7-50A (1-5/8 FOAM)	180.00 - 200.00	0.6000	0.4179
T8	21	LDF7-50A (1-5/8 FOAM)	180.00 - 200.00	0.6000	0.4179
T8	22	LDF4P-50A (1/2 FOAM)	180.00 - 200.00	0.6000	0.4179
T8	23	LDF4P-50A (1/2 FOAM)	180.00 - 200.00	0.6000	0.4179
T8	24	LDF7-50A (1-5/8 FOAM)	180.00 - 200.00	0.6000	0.4179
T8	27	LDF7-50A (1-5/8 FOAM)	180.00 - 200.00	0.6000	0.4179
T8	28	LDF5-50A (7/8 FOAM)	180.00 - 200.00	0.6000	0.4179
T8	30	LDF6-50A (1-1/4 FOAM)	180.00 - 200.00	0.6000	0.4179
T8	31	LDF7-50A (1-5/8 FOAM)	180.00 - 200.00	0.6000	0.4179
T8	32	LDF7-50A (1-5/8 FOAM)	180.00 - 188.50	0.6000	0.4179

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T8	33	LDF7-50A (1-5/8 FOAM)	180.00 - 188.50	0.6000	0.4179
T8	34	LDF6-50A (1-1/4 FOAM)	180.00 - 188.50	0.6000	0.4179
T8	35	LDF6-50A (1-1/4 FOAM)	180.00 - 188.50	0.6000	0.4179
T8	38	Climbing Ladder	180.00 - 200.00	0.6000	0.4179
T8	39	Safety Line 3/8	180.00 - 200.00	0.6000	0.4179
T8	40	Feedline Ladder (Af)	180.00 - 200.00	0.6000	0.4179
T8	41	Feedline Ladder (Af)	180.00 - 200.00	0.6000	0.4179
T8	42	Feedline Ladder (Af)	180.00 - 200.00	0.6000	0.4179
T8	43	Feedline Ladder (Af)	180.00 - 200.00	0.6000	0.4179
T9	1	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	0.6000	0.4219
T9	2	LMR-240 (3/4 FOAM)	160.00 - 180.00	0.6000	0.4219
T9	3	FSJ2-50 (3/8 SUPERFLEX. FOAM)	160.00 - 180.00	0.6000	0.4219
T9	4	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	0.6000	0.4219
T9	5	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	0.6000	0.4219
T9	6	LDF5-50A (7/8 FOAM)	160.00 - 180.00	0.6000	0.4219
T9	9	LDF12-50A (2-1/4 FOAM)	160.00 - 180.00	0.6000	0.4219
T9	10	LDF7-50A (1-5/8 FOAM)	160.00 - 169.50	0.6000	0.4219
T9	12	1 1/2" Rigid Conduit	160.00 - 180.00	0.6000	0.4219
T9	13	LDF5-50A (7/8 FOAM)	160.00 - 180.00	0.6000	0.4219
T9	14	LDF6-50A (1-1/4 FOAM)	160.00 - 180.00	0.6000	0.4219
T9	15	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	0.6000	0.4219
T9	16	LDF6-50A (1-1/4 FOAM)	160.00 - 180.00	0.6000	0.4219
T9	17	LDF4P-50A (1/2 FOAM)	160.00 - 180.00	0.6000	0.4219
T9	18	LDF4P-50A (1/2 FOAM)	160.00 - 180.00	0.6000	0.4219
T9	19	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	0.6000	0.4219
T9	20	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	0.6000	0.4219
T9	21	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	0.6000	0.4219
T9	22	LDF4P-50A (1/2 FOAM)	160.00 - 180.00	0.6000	0.4219
T9	23	LDF4P-50A (1/2 FOAM)	160.00 - 180.00	0.6000	0.4219
T9	24	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	0.6000	0.4219
T9	27	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	0.6000	0.4219

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T9	28	LDF5-50A (7/8 FOAM)	160.00 - 180.00	0.6000	0.4219
T9	30	LDF6-50A (1-1/4 FOAM)	160.00 - 180.00	0.6000	0.4219
T9	31	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	0.6000	0.4219
T9	32	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	0.6000	0.4219
T9	33	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	0.6000	0.4219
T9	34	LDF6-50A (1-1/4 FOAM)	160.00 - 180.00	0.6000	0.4219
T9	35	LDF6-50A (1-1/4 FOAM)	160.00 - 180.00	0.6000	0.4219
T9	38	Climbing Ladder	160.00 - 180.00	0.6000	0.4219
T9	39	Safety Line 3/8	160.00 - 180.00	0.6000	0.4219
T9	40	Feedline Ladder (Af)	160.00 - 180.00	0.6000	0.4219
T9	41	Feedline Ladder (Af)	160.00 - 180.00	0.6000	0.4219
T9	42	Feedline Ladder (Af)	160.00 - 180.00	0.6000	0.4219
T9	43	Feedline Ladder (Af)	160.00 - 180.00	0.6000	0.4219
T10	1	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.4460
T10	2	LMR-240 (3/4 FOAM)	140.00 - 160.00	0.6000	0.4460
T10	3	FSJ2-50 (3/8 SUPERFLEX. FOAM)	140.00 - 160.00	0.6000	0.4460
T10	4	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.4460
T10	5	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.4460
T10	6	LDF5-50A (7/8 FOAM)	140.00 - 160.00	0.6000	0.4460
T10	9	LDF12-50A (2-1/4 FOAM)	140.00 - 160.00	0.6000	0.4460
T10	10	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.4460
T10	12	1 1/2" Rigid Conduit	140.00 - 160.00	0.6000	0.4460
T10	13	LDF5-50A (7/8 FOAM)	140.00 - 160.00	0.6000	0.4460
T10	14	LDF6-50A (1-1/4 FOAM)	140.00 - 160.00	0.6000	0.4460
T10	15	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.4460
T10	16	LDF6-50A (1-1/4 FOAM)	140.00 - 160.00	0.6000	0.4460
T10	17	LDF4P-50A (1/2 FOAM)	140.00 - 160.00	0.6000	0.4460
T10	18	LDF4P-50A (1/2 FOAM)	140.00 - 160.00	0.6000	0.4460
T10	19	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.4460
T10	20	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.4460
T10	21	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.4460

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T10	22	LDF4P-50A (1/2 FOAM)	140.00 - 160.00	0.6000	0.4460
T10	23	LDF4P-50A (1/2 FOAM)	140.00 - 160.00	0.6000	0.4460
T10	24	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.4460
T10	27	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.4460
T10	28	LDF5-50A (7/8 FOAM)	140.00 - 160.00	0.6000	0.4460
T10	29	LDF4.5-50 (5/8 FOAM)	140.00 - 150.60	0.6000	0.4460
T10	30	LDF6-50A (1-1/4 FOAM)	140.00 - 160.00	0.6000	0.4460
T10	31	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.4460
T10	32	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.4460
T10	33	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.4460
T10	34	LDF6-50A (1-1/4 FOAM)	140.00 - 160.00	0.6000	0.4460
T10	35	LDF6-50A (1-1/4 FOAM)	140.00 - 160.00	0.6000	0.4460
T10	38	Climbing Ladder	140.00 - 160.00	0.6000	0.4460
T10	39	Safety Line 3/8	140.00 - 160.00	0.6000	0.4460
T10	40	Feedline Ladder (Af)	140.00 - 160.00	0.6000	0.4460
T10	41	Feedline Ladder (Af)	140.00 - 160.00	0.6000	0.4460
T10	42	Feedline Ladder (Af)	140.00 - 160.00	0.6000	0.4460
T10	43	Feedline Ladder (Af)	140.00 - 160.00	0.6000	0.4460
T11	1	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.4511
T11	2	LMR-240 (3/4 FOAM)	120.00 - 140.00	0.6000	0.4511
T11	3	FSJ2-50 (3/8 SUPERFLEX. FOAM)	120.00 - 140.00	0.6000	0.4511
T11	4	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.4511
T11	5	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.4511
T11	6	LDF5-50A (7/8 FOAM)	120.00 - 140.00	0.6000	0.4511
T11	8	LDF5-50A (7/8 FOAM)	120.00 - 136.00	0.6000	0.4511
T11	9	LDF12-50A (2-1/4 FOAM)	120.00 - 140.00	0.6000	0.4511
T11	10	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.4511
T11	12	1 1/2" Rigid Conduit	120.00 - 140.00	0.6000	0.4511
T11	13	LDF5-50A (7/8 FOAM)	120.00 - 140.00	0.6000	0.4511
T11	14	LDF6-50A (1-1/4 FOAM)	120.00 - 140.00	0.6000	0.4511
T11	15	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.4511

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T11	16	LDF6-50A (1-1/4 FOAM)	120.00 - 140.00	0.6000	0.4511
T11	17	LDF4P-50A (1/2 FOAM)	120.00 - 140.00	0.6000	0.4511
T11	18	LDF4P-50A (1/2 FOAM)	120.00 - 140.00	0.6000	0.4511
T11	19	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.4511
T11	20	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.4511
T11	21	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.4511
T11	22	LDF4P-50A (1/2 FOAM)	120.00 - 140.00	0.6000	0.4511
T11	23	LDF4P-50A (1/2 FOAM)	120.00 - 140.00	0.6000	0.4511
T11	24	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.4511
T11	25	LDF7-50A (1-5/8 FOAM)	120.00 - 130.00	0.6000	0.4511
T11	27	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.4511
T11	28	LDF5-50A (7/8 FOAM)	120.00 - 140.00	0.6000	0.4511
T11	29	LDF4.5-50 (5/8 FOAM)	120.00 - 140.00	0.6000	0.4511
T11	30	LDF6-50A (1-1/4 FOAM)	120.00 - 140.00	0.6000	0.4511
T11	31	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.4511
T11	32	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.4511
T11	33	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.4511
T11	34	LDF6-50A (1-1/4 FOAM)	120.00 - 140.00	0.6000	0.4511
T11	35	LDF6-50A (1-1/4 FOAM)	120.00 - 140.00	0.6000	0.4511
T11	37	CA-0182 (3/16 Solid Bare Copp)	120.00 - 123.50	0.6000	0.4511
T11	38	Climbing Ladder	120.00 - 140.00	0.6000	0.4511
T11	39	Safety Line 3/8	120.00 - 140.00	0.6000	0.4511
T11	40	Feedline Ladder (Af)	120.00 - 140.00	0.6000	0.4511
T11	41	Feedline Ladder (Af)	120.00 - 140.00	0.6000	0.4511
T11	42	Feedline Ladder (Af)	120.00 - 140.00	0.6000	0.4511
T11	43	Feedline Ladder (Af)	120.00 - 140.00	0.6000	0.4511
T12	1	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.4569
T12	2	LMR-240 (3/4 FOAM)	100.00 - 120.00	0.6000	0.4569
T12	3	FSJ2-50 (3/8 SUPERFLEX. FOAM)	100.00 - 120.00	0.6000	0.4569
T12	4	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.4569
T12	5	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.4569

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T12	6	LDF5-50A (7/8 FOAM)	100.00 - 120.00	0.6000	0.4569
T12	8	LDF5-50A (7/8 FOAM)	100.00 - 120.00	0.6000	0.4569
T12	9	LDF12-50A (2-1/4 FOAM)	100.00 - 120.00	0.6000	0.4569
T12	10	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.4569
T12	12	1 1/2" Rigid Conduit	100.00 - 120.00	0.6000	0.4569
T12	13	LDF5-50A (7/8 FOAM)	100.00 - 120.00	0.6000	0.4569
T12	14	LDF6-50A (1-1/4 FOAM)	100.00 - 120.00	0.6000	0.4569
T12	15	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.4569
T12	16	LDF6-50A (1-1/4 FOAM)	100.00 - 120.00	0.6000	0.4569
T12	17	LDF4P-50A (1/2 FOAM)	100.00 - 120.00	0.6000	0.4569
T12	18	LDF4P-50A (1/2 FOAM)	100.00 - 120.00	0.6000	0.4569
T12	19	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.4569
T12	20	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.4569
T12	21	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.4569
T12	22	LDF4P-50A (1/2 FOAM)	100.00 - 120.00	0.6000	0.4569
T12	23	LDF4P-50A (1/2 FOAM)	100.00 - 120.00	0.6000	0.4569
T12	24	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.4569
T12	25	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.4569
T12	26	LDF7-50A (1-5/8 FOAM)	100.00 - 112.00	0.6000	0.4569
T12	27	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.4569
T12	28	LDF5-50A (7/8 FOAM)	100.00 - 120.00	0.6000	0.4569
T12	29	LDF4.5-50 (5/8 FOAM)	100.00 - 120.00	0.6000	0.4569
T12	30	LDF6-50A (1-1/4 FOAM)	100.00 - 120.00	0.6000	0.4569
T12	31	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.4569
T12	32	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.4569
T12	33	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.4569
T12	34	LDF6-50A (1-1/4 FOAM)	100.00 - 120.00	0.6000	0.4569
T12	35	LDF6-50A (1-1/4 FOAM)	100.00 - 120.00	0.6000	0.4569
T12	36	LDF1-50A (1/4 FOAM)	100.00 - 106.50	0.6000	0.4569
T12	37	CA-0182 (3/16 Solid Bare Copp)	100.00 - 120.00	0.6000	0.4569
T12	38	Climbing Ladder	100.00 - 120.00	0.6000	0.4569

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T12	39	Safety Line 3/8	100.00 - 120.00	0.6000	0.4569
T12	40	Feedline Ladder (Af)	100.00 - 120.00	0.6000	0.4569
T12	41	Feedline Ladder (Af)	100.00 - 120.00	0.6000	0.4569
T12	42	Feedline Ladder (Af)	100.00 - 120.00	0.6000	0.4569
T12	43	Feedline Ladder (Af)	100.00 - 120.00	0.6000	0.4569
T13	1	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.4638
T13	2	LMR-240 (3/4 FOAM)	80.00 - 100.00	0.6000	0.4638
T13	3	FSJ2-50 (3/8 SUPERFLEX. FOAM)	80.00 - 100.00	0.6000	0.4638
T13	4	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.4638
T13	5	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.4638
T13	6	LDF5-50A (7/8 FOAM)	80.00 - 100.00	0.6000	0.4638
T13	7	LDF4P-50A (1/2 FOAM)	80.00 - 90.00	0.6000	0.4638
T13	8	LDF5-50A (7/8 FOAM)	80.00 - 100.00	0.6000	0.4638
T13	9	LDF12-50A (2-1/4 FOAM)	80.00 - 100.00	0.6000	0.4638
T13	10	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.4638
T13	12	1 1/2" Rigid Conduit	80.00 - 100.00	0.6000	0.4638
T13	13	LDF5-50A (7/8 FOAM)	80.00 - 100.00	0.6000	0.4638
T13	14	LDF6-50A (1-1/4 FOAM)	80.00 - 100.00	0.6000	0.4638
T13	15	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.4638
T13	16	LDF6-50A (1-1/4 FOAM)	80.00 - 100.00	0.6000	0.4638
T13	17	LDF4P-50A (1/2 FOAM)	80.00 - 100.00	0.6000	0.4638
T13	18	LDF4P-50A (1/2 FOAM)	80.00 - 100.00	0.6000	0.4638
T13	19	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.4638
T13	20	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.4638
T13	21	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.4638
T13	22	LDF4P-50A (1/2 FOAM)	80.00 - 100.00	0.6000	0.4638
T13	23	LDF4P-50A (1/2 FOAM)	80.00 - 100.00	0.6000	0.4638
T13	24	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.4638
T13	25	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.4638
T13	26	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.4638
T13	27	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.4638
T13	28	LDF5-50A (7/8 FOAM)	80.00 - 100.00	0.6000	0.4638
T13	29	LDF4.5-50 (5/8 FOAM)	80.00 - 100.00	0.6000	0.4638
T13	30	LDF6-50A (1-1/4 FOAM)	80.00 - 100.00	0.6000	0.4638
T13	31	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.4638
T13	32	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.4638
T13	33	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.4638
T13	34	LDF6-50A (1-1/4 FOAM)	80.00 - 100.00	0.6000	0.4638
T13	35	LDF6-50A (1-1/4 FOAM)	80.00 - 100.00	0.6000	0.4638
T13	36	LDF1-50A (1/4 FOAM)	80.00 - 100.00	0.6000	0.4638
T13	37	CA-0182 (3/16 Solid Bare Copp)	80.00 - 100.00	0.6000	0.4638
T13	38	Climbing Ladder	80.00 - 100.00	0.6000	0.4638
T13	39	Safety Line 3/8	80.00 - 100.00	0.6000	0.4638
T13	40	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.4638
T13	41	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.4638
T13	42	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.4638
T13	43	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.4638
T14	1	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.4722
T14	2	LMR-240 (3/4 FOAM)	60.00 - 80.00	0.6000	0.4722
T14	3	FSJ2-50 (3/8 SUPERFLEX. FOAM)	60.00 - 80.00	0.6000	0.4722
T14	4	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.4722
T14	5	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.4722
T14	6	LDF5-50A (7/8 FOAM)	60.00 - 80.00	0.6000	0.4722
T14	7	LDF4P-50A (1/2 FOAM)	60.00 - 80.00	0.6000	0.4722

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T14	8	LDF5-50A (7/8 FOAM)	60.00 - 80.00	0.6000	0.4722
T14	9	LDF12-50A (2-1/4 FOAM)	60.00 - 80.00	0.6000	0.4722
T14	10	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.4722
T14	12	1 1/2" Rigid Conduit	60.00 - 80.00	0.6000	0.4722
T14	13	LDF5-50A (7/8 FOAM)	60.00 - 80.00	0.6000	0.4722
T14	14	LDF6-50A (1-1/4 FOAM)	60.00 - 80.00	0.6000	0.4722
T14	15	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.4722
T14	16	LDF6-50A (1-1/4 FOAM)	60.00 - 80.00	0.6000	0.4722
T14	17	LDF4P-50A (1/2 FOAM)	60.00 - 80.00	0.6000	0.4722
T14	18	LDF4P-50A (1/2 FOAM)	60.00 - 80.00	0.6000	0.4722
T14	19	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.4722
T14	20	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.4722
T14	21	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.4722
T14	22	LDF4P-50A (1/2 FOAM)	60.00 - 80.00	0.6000	0.4722
T14	23	LDF4P-50A (1/2 FOAM)	60.00 - 80.00	0.6000	0.4722
T14	24	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.4722
T14	25	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.4722
T14	26	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.4722
T14	27	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.4722
T14	28	LDF5-50A (7/8 FOAM)	60.00 - 80.00	0.6000	0.4722
T14	29	LDF4.5-50 (5/8 FOAM)	60.00 - 80.00	0.6000	0.4722
T14	30	LDF6-50A (1-1/4 FOAM)	60.00 - 80.00	0.6000	0.4722
T14	31	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.4722
T14	32	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.4722
T14	33	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.4722
T14	34	LDF6-50A (1-1/4 FOAM)	60.00 - 80.00	0.6000	0.4722
T14	35	LDF6-50A (1-1/4 FOAM)	60.00 - 80.00	0.6000	0.4722
T14	36	LDF1-50A (1/4 FOAM)	60.00 - 80.00	0.6000	0.4722
T14	37	CA-0182 (3/16 Solid Bare Copp)	60.00 - 80.00	0.6000	0.4722
T14	38	Climbing Ladder	60.00 - 80.00	0.6000	0.4722
T14	39	Safety Line 3/8	60.00 - 80.00	0.6000	0.4722
T14	40	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.4722
T14	41	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.4722
T14	42	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.4722
T14	43	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.4722
T15	1	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.4833
T15	2	LMR-240 (3/4 FOAM)	40.00 - 60.00	0.6000	0.4833
T15	3	FSJ2-50 (3/8 SUPERFLEX. FOAM)	40.00 - 60.00	0.6000	0.4833
T15	4	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.4833
T15	5	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.4833
T15	6	LDF5-50A (7/8 FOAM)	40.00 - 60.00	0.6000	0.4833
T15	7	LDF4P-50A (1/2 FOAM)	40.00 - 60.00	0.6000	0.4833
T15	8	LDF5-50A (7/8 FOAM)	40.00 - 60.00	0.6000	0.4833
T15	9	LDF12-50A (2-1/4 FOAM)	40.00 - 60.00	0.6000	0.4833
T15	10	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.4833
T15	12	1 1/2" Rigid Conduit	40.00 - 60.00	0.6000	0.4833
T15	13	LDF5-50A (7/8 FOAM)	40.00 - 60.00	0.6000	0.4833
T15	14	LDF6-50A (1-1/4 FOAM)	40.00 - 60.00	0.6000	0.4833
T15	15	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.4833
T15	16	LDF6-50A (1-1/4 FOAM)	40.00 - 60.00	0.6000	0.4833
T15	17	LDF4P-50A (1/2 FOAM)	40.00 - 60.00	0.6000	0.4833
T15	18	LDF4P-50A (1/2 FOAM)	40.00 - 60.00	0.6000	0.4833
T15	19	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.4833
T15	20	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.4833
T15	21	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.4833
T15	22	LDF4P-50A (1/2 FOAM)	40.00 - 60.00	0.6000	0.4833
T15	23	LDF4P-50A (1/2 FOAM)	40.00 - 60.00	0.6000	0.4833
T15	24	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.4833
T15	25	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.4833
T15	26	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.4833

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T15	27	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.4833
T15	28	LDF5-50A (7/8 FOAM)	40.00 - 60.00	0.6000	0.4833
T15	29	LDF4.5-50 (5/8 FOAM)	40.00 - 60.00	0.6000	0.4833
T15	30	LDF6-50A (1-1/4 FOAM)	40.00 - 60.00	0.6000	0.4833
T15	31	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.4833
T15	32	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.4833
T15	33	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.4833
T15	34	LDF6-50A (1-1/4 FOAM)	40.00 - 60.00	0.6000	0.4833
T15	35	LDF6-50A (1-1/4 FOAM)	40.00 - 60.00	0.6000	0.4833
T15	36	LDF1-50A (1/4 FOAM)	40.00 - 60.00	0.6000	0.4833
T15	37	CA-0182 (3/16 Solid Bare Copp)	40.00 - 60.00	0.6000	0.4833
T15	38	Climbing Ladder	40.00 - 60.00	0.6000	0.4833
T15	39	Safety Line 3/8	40.00 - 60.00	0.6000	0.4833
T15	40	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.4833
T15	41	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.4833
T15	42	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.4833
T15	43	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.4833
T16	1	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	2	LMR-240 (3/4 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	3	FSJ2-50 (3/8 SUPERFLEX. FOAM)	20.00 - 40.00	0.6000	0.4994
T16	4	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	5	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	6	LDF5-50A (7/8 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	7	LDF4P-50A (1/2 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	8	LDF5-50A (7/8 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	9	LDF12-50A (2-1/4 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	10	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	11	LDF4P-50A (1/2 FOAM)	20.00 - 36.00	0.6000	0.4994
T16	12	1 1/2" Rigid Conduit	20.00 - 40.00	0.6000	0.4994
T16	13	LDF5-50A (7/8 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	14	LDF6-50A (1-1/4 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	15	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	16	LDF6-50A (1-1/4 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	17	LDF4P-50A (1/2 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	18	LDF4P-50A (1/2 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	19	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	20	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	21	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	22	LDF4P-50A (1/2 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	23	LDF4P-50A (1/2 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	24	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	25	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	26	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	27	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	28	LDF5-50A (7/8 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	29	LDF4.5-50 (5/8 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	30	LDF6-50A (1-1/4 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	31	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	32	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	33	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	34	LDF6-50A (1-1/4 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	35	LDF6-50A (1-1/4 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	36	LDF1-50A (1/4 FOAM)	20.00 - 40.00	0.6000	0.4994
T16	37	CA-0182 (3/16 Solid Bare Copp)	20.00 - 40.00	0.6000	0.4994
T16	38	Climbing Ladder	20.00 - 40.00	0.6000	0.4994
T16	39	Safety Line 3/8	20.00 - 40.00	0.6000	0.4994
T16	40	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.4994
T16	41	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.4994
T16	42	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.4994

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T16	43	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.4994
T17	1	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	2	LMR-240 (3/4 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	3	FSJ2-50 (3/8 SUPERFLEX. FOAM)	12.00 - 20.00	0.6000	0.4561
T17	4	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	5	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	6	LDF5-50A (7/8 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	7	LDF4P-50A (1/2 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	8	LDF5-50A (7/8 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	9	LDF12-50A (2-1/4 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	10	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	11	LDF4P-50A (1/2 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	12	1 1/2" Rigid Conduit	12.00 - 20.00	0.6000	0.4561
T17	13	LDF5-50A (7/8 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	14	LDF6-50A (1-1/4 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	15	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	16	LDF6-50A (1-1/4 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	17	LDF4P-50A (1/2 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	18	LDF4P-50A (1/2 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	19	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	20	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	21	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	22	LDF4P-50A (1/2 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	23	LDF4P-50A (1/2 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	24	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	25	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	26	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	27	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	28	LDF5-50A (7/8 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	29	LDF4.5-50 (5/8 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	30	LDF6-50A (1-1/4 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	31	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	32	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	33	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	34	LDF6-50A (1-1/4 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	35	LDF6-50A (1-1/4 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	36	LDF1-50A (1/4 FOAM)	12.00 - 20.00	0.6000	0.4561
T17	37	CA-0182 (3/16 Solid Bare Copp)	12.00 - 20.00	0.6000	0.4561
T17	38	Climbing Ladder	12.00 - 20.00	0.6000	0.4561
T17	39	Safety Line 3/8	12.00 - 20.00	0.6000	0.4561
T17	40	Feedline Ladder (Af)	12.00 - 20.00	0.6000	0.4561
T17	41	Feedline Ladder (Af)	12.00 - 20.00	0.6000	0.4561
T17	42	Feedline Ladder (Af)	12.00 - 20.00	0.6000	0.4561
T17	43	Feedline Ladder (Af)	12.00 - 20.00	0.6000	0.4561
T18	1	LDF7-50A (1-5/8 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	2	LMR-240 (3/4 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	3	FSJ2-50 (3/8 SUPERFLEX. FOAM)	6.67 - 12.00	0.6000	0.5684
T18	4	LDF7-50A (1-5/8 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	5	LDF7-50A (1-5/8 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	6	LDF5-50A (7/8 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	7	LDF4P-50A (1/2 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	8	LDF5-50A (7/8 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	9	LDF12-50A (2-1/4 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	10	LDF7-50A (1-5/8 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	11	LDF4P-50A (1/2 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	12	1 1/2" Rigid Conduit	6.67 - 12.00	0.6000	0.5684
T18	13	LDF5-50A (7/8 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	14	LDF6-50A (1-1/4 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	15	LDF7-50A (1-5/8 FOAM)	6.67 - 12.00	0.6000	0.5684

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T18	16	LDF6-50A (1-1/4 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	17	LDF4P-50A (1/2 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	18	LDF4P-50A (1/2 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	19	LDF7-50A (1-5/8 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	20	LDF7-50A (1-5/8 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	21	LDF7-50A (1-5/8 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	22	LDF4P-50A (1/2 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	23	LDF4P-50A (1/2 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	24	LDF7-50A (1-5/8 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	25	LDF7-50A (1-5/8 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	26	LDF7-50A (1-5/8 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	27	LDF7-50A (1-5/8 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	28	LDF5-50A (7/8 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	29	LDF4.5-50 (5/8 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	30	LDF6-50A (1-1/4 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	31	LDF7-50A (1-5/8 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	32	LDF7-50A (1-5/8 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	33	LDF7-50A (1-5/8 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	34	LDF6-50A (1-1/4 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	35	LDF6-50A (1-1/4 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	36	LDF1-50A (1/4 FOAM)	6.67 - 12.00	0.6000	0.5684
T18	37	CA-0182 (3/16 Solid Bare Copp)	6.67 - 12.00	0.6000	0.5684
T18	38	Climbing Ladder	6.67 - 12.00	0.6000	0.5684
T18	39	Safety Line 3/8	6.67 - 12.00	0.6000	0.5684
T18	40	Feedline Ladder (Af)	6.67 - 12.00	0.6000	0.5684
T18	41	Feedline Ladder (Af)	6.67 - 12.00	0.6000	0.5684
T18	42	Feedline Ladder (Af)	6.67 - 12.00	0.6000	0.5684
T18	43	Feedline Ladder (Af)	6.67 - 12.00	0.6000	0.5684
T19	1	LDF7-50A (1-5/8 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	2	LMR-240 (3/4 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	3	FSJ2-50 (3/8 SUPERFLEX. FOAM)	6.66 - 6.67	0.5974	0.0330
T19	4	LDF7-50A (1-5/8 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	5	LDF7-50A (1-5/8 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	6	LDF5-50A (7/8 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	7	LDF4P-50A (1/2 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	8	LDF5-50A (7/8 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	9	LDF12-50A (2-1/4 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	10	LDF7-50A (1-5/8 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	11	LDF4P-50A (1/2 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	12	1 1/2" Rigid Conduit	6.66 - 6.67	0.5974	0.0330
T19	13	LDF5-50A (7/8 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	14	LDF6-50A (1-1/4 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	15	LDF7-50A (1-5/8 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	16	LDF6-50A (1-1/4 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	17	LDF4P-50A (1/2 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	18	LDF4P-50A (1/2 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	19	LDF7-50A (1-5/8 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	20	LDF7-50A (1-5/8 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	21	LDF7-50A (1-5/8 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	22	LDF4P-50A (1/2 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	23	LDF4P-50A (1/2 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	24	LDF7-50A (1-5/8 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	25	LDF7-50A (1-5/8 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	26	LDF7-50A (1-5/8 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	27	LDF7-50A (1-5/8 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	28	LDF5-50A (7/8 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	29	LDF4.5-50 (5/8 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	30	LDF6-50A (1-1/4 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	31	LDF7-50A (1-5/8 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	32	LDF7-50A (1-5/8 FOAM)	6.66 - 6.67	0.5974	0.0330

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T19	33	LDF7-50A (1-5/8 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	34	LDF6-50A (1-1/4 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	35	LDF6-50A (1-1/4 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	36	LDF1-50A (1/4 FOAM)	6.66 - 6.67	0.5974	0.0330
T19	37	CA-0182 (3/16 Solid Bare Copp)	6.66 - 6.67	0.5974	0.0330
T19	38	Climbing Ladder	6.66 - 6.67	0.5974	0.0330
T19	39	Safety Line 3/8	6.66 - 6.67	0.5974	0.0330
T19	40	Feedline Ladder (Af)	6.66 - 6.67	0.5974	0.0330
T19	41	Feedline Ladder (Af)	6.66 - 6.67	0.5974	0.0330
T19	42	Feedline Ladder (Af)	6.66 - 6.67	0.5974	0.0330
T19	43	Feedline Ladder (Af)	6.66 - 6.67	0.5974	0.0330

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 lb
1.9"x4' pipe mount	B	From Leg	0.00	0.0000	90.00	No Ice	0.00	0.00	0.00
			0.00			1/2" Ice	0.00	0.00	0.00
			0.00			1" Ice	0.00	0.00	0.00
PR-950	B	From Leg	0.00	0.0000	90.00	No Ice	11.90	6.30	38.00
			0.00			1/2" Ice	12.46	6.65	181.99
			0.00			1" Ice	13.03	7.02	334.07
MTZ-940B	A	From Leg	0.00	0.0000	112.00	No Ice	8.40	12.60	40.00
			0.00			1/2" Ice	8.79	13.07	141.14
			0.00			1" Ice	9.20	13.55	248.70
3' Side Arm	C	From Leg	0.00	0.0000	112.00	No Ice	5.30	5.30	70.00
			0.00			1/2" Ice	7.20	7.20	106.00
			0.00			1" Ice	9.10	9.10	142.00
2'6"x4" Pipe Mount	B	From Leg	0.00	0.0000	130.00	No Ice	0.68	0.68	27.00
			0.00			1/2" Ice	0.91	0.91	35.41
			0.00			1" Ice	1.09	1.09	45.95
Pirod 4' Side Mount Standoff (1)	B	From Leg	0.00	0.0000	138.50	No Ice	2.72	2.72	50.00
			0.00			1/2" Ice	4.91	4.91	89.00
			0.00			1" Ice	7.10	7.10	128.00
3" Dia 20' Omni	B	From Leg	4.00	0.0000	146.00	No Ice	4.00	4.00	55.00
			0.00			1/2" Ice	6.00	6.00	100.00
			0.00			1" Ice	8.00	8.00	145.00
13' Diapole	A	From Leg	4.00	0.0000	150.50	No Ice	4.00	4.00	40.00
			0.00			1/2" Ice	6.00	6.00	100.00
			0.00			1" Ice	8.00	8.00	145.00
(3) 1.9"x4' pipe mount	A	From Leg	0.00	0.0000	150.50	No Ice	0.00	0.00	0.00
			0.00			1/2" Ice	0.00	0.00	0.00
			0.00			1" Ice	0.00	0.00	0.00
Pirod 12' T-Frame Sector Mount (1) (Verizon)	A	From Leg	0.00	0.0000	168.00	No Ice	13.60	13.60	465.00
			0.00			1/2" Ice	18.40	18.40	600.00
			0.00			1" Ice	23.20	23.20	735.00
Pirod 12' T-Frame Sector Mount (1) (Verizon)	B	From Leg	0.00	0.0000	168.00	No Ice	13.60	13.60	465.00
			0.00			1/2" Ice	18.40	18.40	600.00
			0.00			1" Ice	23.20	23.20	735.00

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 lb
Pirod 12' T-Frame Sector	C	From Leg	0.00	0.0000	168.00	No Ice	13.60	13.60	465.00
Mount (1)			0.00			1/2" Ice	18.40	18.40	600.00
(Verizon)			0.00			1" Ice	23.20	23.20	735.00
(2) LPA-80080-4CF-EDIN	A	From Leg	2.00	0.0000	169.50	No Ice	3.35	5.98	36.55
w/MP			0.00			1/2" Ice	3.97	7.08	81.55
(Verizon)			0.00			1" Ice	4.47	7.89	132.66
(2) LPA-80063/4CFx5	B	From Leg	2.00	0.0000	169.50	No Ice	6.87	7.09	45.55
w/Mount Pipe			0.00			1/2" Ice	7.53	8.15	116.68
(Verizon)			0.00			1" Ice	8.06	8.92	194.79
(2) LPA-80063/4CFx5	C	From Leg	2.00	0.0000	169.50	No Ice	6.87	7.09	45.55
w/Mount Pipe			0.00			1/2" Ice	7.53	8.15	116.68
(Verizon)			0.00			1" Ice	8.06	8.92	194.79
BXA-70063-6CF-EDIN	A	From Leg	2.00	0.0000	169.50	No Ice	8.00	5.42	40.45
w/MP			0.00			1/2" Ice	8.65	6.59	99.60
(Verizon)			0.00			1" Ice	9.26	7.46	166.44
BXA-70063-6CF-EDIN	B	From Leg	2.00	0.0000	169.50	No Ice	8.00	5.42	40.45
w/MP			0.00			1/2" Ice	8.65	6.59	99.60
(Verizon)			0.00			1" Ice	9.26	7.46	166.44
BXA-70063-6CF-EDIN	C	From Leg	2.00	0.0000	169.50	No Ice	8.00	5.42	40.45
w/MP			0.00			1/2" Ice	8.65	6.59	99.60
(Verizon)			0.00			1" Ice	9.26	7.46	166.44
BXA-171063-12BF-EDIN-2	A	From Leg	2.00	0.0000	169.50	No Ice	3.72	3.53	35.55
w/ MP			0.00			1/2" Ice	4.34	4.57	71.64
(Verizon)			0.00			1" Ice	4.85	5.32	113.67
BXA-171063-12BF-EDIN-2	B	From Leg	2.00	0.0000	169.50	No Ice	3.72	3.53	35.55
w/ MP			0.00			1/2" Ice	4.34	4.57	71.64
(Verizon)			0.00			1" Ice	4.85	5.32	113.67
BXA-171063-12BF-EDIN-2	C	From Leg	2.00	0.0000	169.50	No Ice	3.72	3.53	35.55
w/ MP			0.00			1/2" Ice	4.34	4.57	71.64
(Verizon)			0.00			1" Ice	4.85	5.32	113.67
(2) ANDREW E15V95P08	A	From Leg	2.00	0.0000	169.50	No Ice	0.45	0.12	4.40
04			0.00			1/2" Ice	0.54	0.18	7.14
(Verizon)			0.00			1" Ice	0.64	0.26	11.06
(2) ANDREW E15V95P08	B	From Leg	2.00	0.0000	169.50	No Ice	0.45	0.12	4.40
04			0.00			1/2" Ice	0.54	0.18	7.14
(Verizon)			0.00			1" Ice	0.64	0.26	11.06
(2) ANDREW E15V95P08	C	From Leg	2.00	0.0000	169.50	No Ice	0.45	0.12	4.40
04			0.00			1/2" Ice	0.54	0.18	7.14
(Verizon)			0.00			1" Ice	0.64	0.26	11.06
Valmont 10' Wireless Frame	C	From Leg	0.00	0.0000	186.50	No Ice	30.70	30.70	714.00
(3)			0.00			1/2" Ice	42.00	42.00	858.00
(T-Mobile)			0.00			1" Ice	53.30	53.30	1002.00
(2) AIR 21 B2A B4P	A	From Leg	3.50	0.0000	188.50	No Ice	6.42	4.22	83.00
(T-Mobile)			0.00			1/2" Ice	6.86	4.64	124.00
			0.00			1" Ice	7.30	5.06	170.05
(2) AIR 21 B2A B4P	B	From Leg	3.50	0.0000	188.50	No Ice	6.42	4.22	83.00
(T-Mobile)			0.00			1/2" Ice	6.86	4.64	124.00
			0.00			1" Ice	7.30	5.06	170.05
(2) AIR 21 B2A B4P	C	From Leg	3.50	0.0000	188.50	No Ice	6.42	4.22	83.00
(T-Mobile)			0.00			1/2" Ice	6.86	4.64	124.00
			0.00			1" Ice	7.30	5.06	170.05
LNX-6515DS-A1M	A	From Leg	3.50	0.0000	188.50	No Ice	11.47	7.72	43.70
(T-Mobile)			0.00			1/2" Ice	12.09	8.31	109.70
			0.00			1" Ice	12.72	8.91	183.38
LNX-6515DS-A1M	B	From Leg	3.50	0.0000	188.50	No Ice	11.47	7.72	43.70
(T-Mobile)			0.00			1/2" Ice	12.09	8.31	109.70
			0.00			1" Ice	12.72	8.91	183.38

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 lb
LNX-6515DS-A1M	C	From Leg	3.50	0.0000	188.50	No Ice	11.47	7.72	43.70
(T-Mobile)			0.00			1/2" Ice	12.09	8.31	109.70
			0.00			1" Ice	12.72	8.91	183.38
ERICSSON KRY 112	A	From Leg	3.50	0.0000	188.50	No Ice	0.58	0.51	12.10
(T-Mobile)			0.00			1/2" Ice	0.69	0.62	17.11
			0.00			1" Ice	0.81	0.74	23.70
ERICSSON KRY 112	B	From Leg	3.50	0.0000	188.50	No Ice	0.58	0.51	12.10
(T-Mobile)			0.00			1/2" Ice	0.69	0.62	17.11
			0.00			1" Ice	0.81	0.74	23.70
ERICSSON KRY 112	C	From Leg	3.50	0.0000	188.50	No Ice	0.58	0.51	12.10
(T-Mobile)			0.00			1/2" Ice	0.69	0.62	17.11
			0.00			1" Ice	0.81	0.74	23.70
ERICSSON Genaric	A	From Leg	3.50	0.0000	188.50	No Ice	0.90	2.34	10.00
(T-Mobile)			0.00			1/2" Ice	1.03	2.53	27.48
			0.00			1" Ice	1.16	2.72	47.74
ERICSSON Genaric	B	From Leg	3.50	0.0000	188.50	No Ice	0.90	2.34	10.00
(T-Mobile)			0.00			1/2" Ice	1.03	2.53	27.48
			0.00			1" Ice	1.16	2.72	47.74
ERICSSON Genaric	C	From Leg	3.50	0.0000	188.50	No Ice	0.90	2.34	10.00
(T-Mobile)			0.00			1/2" Ice	1.03	2.53	27.48
			0.00			1" Ice	1.16	2.72	47.74
(3) 2" pipe 8' long	A	From Leg	3.50	0.0000	188.50	No Ice	0.00	0.00	0.00
(T-Mobile)			0.00			1/2" Ice	0.00	0.00	0.00
			0.00			1" Ice	0.00	0.00	0.00
(3) 2" pipe 8' long	B	From Leg	3.50	0.0000	188.50	No Ice	0.00	0.00	0.00
(T-Mobile)			0.00			1/2" Ice	0.00	0.00	0.00
			0.00			1" Ice	0.00	0.00	0.00
(3) 2" pipe 8' long	C	From Leg	3.50	0.0000	188.50	No Ice	0.00	0.00	0.00
(T-Mobile)			0.00			1/2" Ice	0.00	0.00	0.00
			0.00			1" Ice	0.00	0.00	0.00
7770	A	From Leg	1.50	0.0000	200.00	No Ice	5.88	2.93	25.00
(AT&T)			0.00			1/2" Ice	6.31	3.27	57.63
			0.00			1" Ice	6.75	3.63	95.06
7770	B	From Leg	1.50	0.0000	200.00	No Ice	5.88	2.93	25.00
(AT&T)			0.00			1/2" Ice	6.31	3.27	57.63
			0.00			1" Ice	6.75	3.63	95.06
7770	C	From Leg	1.50	0.0000	200.00	No Ice	5.88	2.93	25.00
(AT&T)			0.00			1/2" Ice	6.31	3.27	57.63
			0.00			1" Ice	6.75	3.63	95.06
(2)	A	From Leg	1.50	0.0000	200.00	No Ice	5.51	2.83	25.70
AM-X-CD-14-65-OOT-RET			0.00			1/2" Ice	5.90	3.14	57.65
(AT&T)			0.00			1" Ice	6.30	3.47	94.06
RRUS 11	A	From Leg	1.50	0.0000	200.00	No Ice	3.26	1.38	65.00
(AT&T)			0.00			1/2" Ice	3.50	1.56	85.87
			0.00			1" Ice	3.75	1.74	109.78
RRUS 11	B	From Leg	1.50	0.0000	200.00	No Ice	3.26	1.38	65.00
(AT&T)			0.00			1/2" Ice	3.50	1.56	85.87
			0.00			1" Ice	3.75	1.74	109.78
RRUS 11	C	From Leg	1.50	0.0000	200.00	No Ice	3.26	1.38	65.00
(AT&T)			0.00			1/2" Ice	3.50	1.56	85.87
			0.00			1" Ice	3.75	1.74	109.78
RRUS 11	A	From Leg	1.50	0.0000	200.00	No Ice	3.26	1.38	65.00
(AT&T)			0.00			1/2" Ice	3.50	1.56	85.87
			0.00			1" Ice	3.75	1.74	109.78
RRUS 11	B	From Leg	1.50	0.0000	200.00	No Ice	3.26	1.38	65.00
(AT&T)			0.00			1/2" Ice	3.50	1.56	85.87
			0.00			1" Ice	3.75	1.74	109.78

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 lb
RRUS 11	C	From Leg	1.50	0.0000	200.00	No Ice	3.26	1.38	65.00
(AT&T)			0.00			1/2" Ice	3.50	1.56	85.87
			0.00			1" Ice	3.75	1.74	109.78
DTMABP7819VG12A	A	From Leg	1.50	0.0000	200.00	No Ice	1.59	0.58	34.20
(AT&T)			0.00			1/2" Ice	1.76	0.70	43.97
			0.00			1" Ice	1.94	0.83	55.87
DTMABP7819VG12A	B	From Leg	1.50	0.0000	200.00	No Ice	1.59	0.58	34.20
(AT&T)			0.00			1/2" Ice	1.76	0.70	43.97
			0.00			1" Ice	1.94	0.83	55.87
DTMABP7819VG12A	C	From Leg	1.50	0.0000	200.00	No Ice	1.59	0.58	34.20
(AT&T)			0.00			1/2" Ice	1.76	0.70	43.97
			0.00			1" Ice	1.94	0.83	55.87
DC6-48-60-18-8F	C	From Leg	1.50	0.0000	200.00	No Ice	1.47	1.47	34.20
(AT&T)			0.00			1/2" Ice	1.67	1.67	51.92
			0.00			1" Ice	1.88	1.88	72.12
Pirod 10' PCS Frame (1)	A	From Leg	0.00	0.0000	200.00	No Ice	9.00	9.00	250.00
(AT&T)			0.00			1/2" Ice	13.20	13.20	350.00
			0.00			1" Ice	17.40	17.40	450.00
Pirod 10' PCS Frame (1)	B	From Leg	0.00	0.0000	200.00	No Ice	9.00	9.00	250.00
(AT&T)			0.00			1/2" Ice	13.20	13.20	350.00
			0.00			1" Ice	17.40	17.40	450.00
Pirod 10' PCS Frame (1)	C	From Leg	0.00	0.0000	200.00	No Ice	9.00	9.00	250.00
(AT&T)			0.00			1/2" Ice	13.20	13.20	350.00
			0.00			1" Ice	17.40	17.40	450.00
15' OMNI	B	From Leg	6.00	0.0000	213.00	No Ice	1.80	1.80	40.00
			0.00			1/2" Ice	2.73	2.73	53.97
			0.00			1" Ice	3.67	3.67	73.80
Pirod 6-8' Box Arm (1)	B	From Leg	0.00	0.0000	205.50	No Ice	4.50	4.50	214.00
			0.00			1/2" Ice	9.87	9.87	275.00
			0.00			1" Ice	15.24	15.24	336.00
2" Dia 8' Omni	A	From Leg	6.00	0.0000	208.00	No Ice	2.00	2.00	5.00
			0.00			1/2" Ice	3.03	3.03	18.00
			0.00			1" Ice	4.06	4.06	31.00
Pirod 6-8' Box Arm (1)	A	From Leg	0.00	0.0000	204.00	No Ice	4.50	4.50	214.00
			0.00			1/2" Ice	9.87	9.87	275.00
			0.00			1" Ice	15.24	15.24	336.00
MFF-950B	C	From Leg	0.00	0.0000	209.00	No Ice	8.40	12.60	40.00
			0.00			1/2" Ice	8.79	13.07	141.14
			0.00			1" Ice	9.20	13.55	248.70
1.9"x4' pipe mount	C	From Leg	0.00	0.0000	209.00	No Ice	0.00	0.00	0.00
			0.00			1/2" Ice	0.00	0.00	0.00
			0.00			1" Ice	0.00	0.00	0.00
1105-1A	A	From Leg	0.00	0.0000	219.50	No Ice	4.00	4.00	40.00
			0.00			1/2" Ice	5.00	5.00	70.00
			0.00			1" Ice	6.00	6.00	100.00
Site Pro LTF12-4126	A	From Leg	0.00	0.0000	226.50	No Ice	30.70	30.70	506.00
			0.00			1/2" Ice	42.00	42.00	858.00
			0.00			1" Ice	53.30	53.30	1002.00
Site Pro LTF12-4126	B	From Leg	0.00	0.0000	226.50	No Ice	30.70	30.70	506.00
			0.00			1/2" Ice	42.00	42.00	858.00
			0.00			1" Ice	53.30	53.30	1002.00
Site Pro LTF12-4126	C	From Leg	0.00	0.0000	226.50	No Ice	30.70	30.70	506.00
			0.00			1/2" Ice	42.00	42.00	858.00
			0.00			1" Ice	53.30	53.30	1002.00
(2) 59 1/2x6 1/2x 3 Pannel	A	From Leg	3.00	0.0000	226.50	No Ice	3.95	2.27	50.00
			0.00			1/2" Ice	4.33	2.63	71.22
			0.00			1" Ice	4.72	2.99	97.10

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 lb
(2) 59 1/2x6 1/2x 3 Pannel	B	From Leg	3.00	0.0000	226.50	No Ice	3.95	2.27	50.00
			0.00			1/2" Ice	4.33	2.63	71.22
			0.00			1" Ice	4.72	2.99	97.10
(2) 59 1/2x6 1/2x 3 Pannel	C	From Leg	3.00	0.0000	226.50	No Ice	3.95	2.27	50.00
			0.00			1/2" Ice	4.33	2.63	71.22
			0.00			1" Ice	4.72	2.99	97.10
3" Dia 20' Omni	A	From Leg	4.00	0.0000	252.00	No Ice	4.00	4.00	55.00
			0.00			1/2" Ice	6.00	6.00	100.00
			0.00			1" Ice	8.00	8.00	145.00
Pirod 4' Side Mount Standoff (1)	A	From Leg	0.00	0.0000	262.00	No Ice	2.72	2.72	50.00
			0.00			1/2" Ice	4.91	4.91	89.00
			0.00			1" Ice	7.10	7.10	128.00
3" Dia 20' Omni	A	From Leg	4.00	0.0000	274.25	No Ice	4.00	4.00	55.00
			0.00			1/2" Ice	6.00	6.00	100.00
			0.00			1" Ice	8.00	8.00	145.00
Pirod 4' Side Mount Standoff (1)	A	From Leg	0.00	0.0000	264.25	No Ice	2.72	2.72	50.00
			0.00			1/2" Ice	4.91	4.91	89.00
			0.00			1" Ice	7.10	7.10	128.00
5'3"x4" Pipe Mount	A	From Leg	0.00	0.0000	274.00	No Ice	1.55	1.55	57.00
			0.00			1/2" Ice	2.21	2.21	73.81
			0.00			1" Ice	2.54	2.54	94.43
1105-1A	C	From Leg	0.00	0.0000	279.00	No Ice	4.00	4.00	40.00
			0.00			1/2" Ice	5.00	5.00	70.00
			0.00			1" Ice	6.00	6.00	100.00
1105-1A	C	From Leg	0.00	0.0000	288.00	No Ice	4.00	4.00	40.00
			0.00			1/2" Ice	5.00	5.00	70.00
			0.00			1" Ice	6.00	6.00	100.00
LeBlanc 10' Standoff (3)	C	From Leg	0.00	0.0000	294.00	No Ice	34.00	34.00	1650.00
			0.00			1/2" Ice	44.00	44.00	2250.00
			0.00			1" Ice	54.00	54.00	2850.00
LeBlanc 10' Standoff (3)	B	From Leg	0.00	0.0000	294.00	No Ice	34.00	34.00	1650.00
			0.00			1/2" Ice	44.00	44.00	2250.00
			0.00			1" Ice	54.00	54.00	2850.00
3" Dia 20' Omni	C	From Leg	10.00	0.0000	294.00 - 284.00	No Ice	4.00	4.00	55.00
			0.00			1/2" Ice	6.00	6.00	100.00
			0.00			1" Ice	8.00	8.00	145.00
3" Dia 20' Omni	B	From Leg	10.00	0.0000	294.00 - 284.00	No Ice	4.00	4.00	55.00
			0.00			1/2" Ice	6.00	6.00	100.00
			0.00			1" Ice	8.00	8.00	145.00
3" Dia 20' Omni	C	From Leg	10.00	0.0000	305.50	No Ice	4.00	4.00	55.00
			0.00			1/2" Ice	6.00	6.00	100.00
			0.00			1" Ice	8.00	8.00	145.00
3' Side Arm	B	From Leg	0.00	0.0000	295.50	No Ice	5.30	5.30	70.00
			0.00			1/2" Ice	7.20	7.20	106.00
			0.00			1" Ice	9.10	9.10	142.00
3" Dia 20' Omni	B	From Leg	3.00	0.0000	307.33	No Ice	4.00	4.00	55.00
			0.00			1/2" Ice	6.00	6.00	100.00
			0.00			1" Ice	8.00	8.00	145.00
SHP-1AE	C	From Leg	0.00	0.0000	312.00	No Ice	5.00	5.00	110.00
			0.00			1/2" Ice	6.00	6.00	190.00
			0.00			1" Ice	7.00	7.00	270.00
1105-1A	C	From Leg	0.00	0.0000	332.50	No Ice	4.00	4.00	40.00
			0.00			1/2" Ice	5.00	5.00	70.00
			0.00			1" Ice	6.00	6.00	100.00
1105-1A	C	From Leg	0.00	0.0000	342.00	No Ice	4.00	4.00	40.00
			0.00			1/2" Ice	5.00	5.00	70.00
			0.00			1" Ice	6.00	6.00	100.00

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 lb
MP-3E	B	From Leg	0.00	0.0000	338.00	No Ice	14.00	14.00	240.00
			0.00			1/2" Ice	19.00	19.00	395.00
			0.00			1" Ice	24.00	24.00	550.00
3' Side Arm	C	From Leg	0.00	0.0000	317.00	No Ice	5.30	5.30	70.00
			0.00			1/2" Ice	7.20	7.20	106.00
			0.00			1" Ice	9.10	9.10	142.00
(2)	B	From Leg	0.00	0.0000	200.00	No Ice	8.26	4.64	31.80
AM-X-CD-17-65-OOT-RET			0.00			1/2" Ice	8.81	5.09	78.30
(AT&T)			0.00			1" Ice	9.36	5.54	130.80
(2)	C	From Leg	0.00	0.0000	200.00	No Ice	8.26	4.64	31.80
AM-X-CD-17-65-OOT-RET			0.00			1/2" Ice	8.81	5.09	78.30
(AT&T)			0.00			1" Ice	9.36	5.54	130.80
11', 2" STD Stabilizer Arm	A	From Leg	0.00	0.0000	200.00	No Ice	2.61	2.61	40.15
(AT&T)			0.00			1/2" Ice	3.74	3.74	59.76
			0.00			1" Ice	4.89	4.89	86.48
11', 2" STD Stabilizer Arm	B	From Leg	0.00	0.0000	200.00	No Ice	2.61	2.61	40.15
(AT&T)			0.00			1/2" Ice	3.74	3.74	59.76
			0.00			1" Ice	4.89	4.89	86.48
11', 2" STD Stabilizer Arm	C	From Leg	0.00	0.0000	200.00	No Ice	2.61	2.61	40.15
(AT&T)			0.00			1/2" Ice	3.74	3.74	59.76
			0.00			1" Ice	4.89	4.89	86.48

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft		Aperture Area ft^2	Weight lb
SPD3-2.4NS	B	Paraboloid w/Radome	From Leg	1.00	Worst		36.00	3.00	No Ice	12.60	60.00
				0.00					1/2" Ice	13.09	127.19
				0.00					1" Ice	13.58	194.38
HP2-18	A	Paraboloid w/Shroud (HP)	From Leg	0.00	Worst		106.50	2.00	No Ice	3.14	27.00
				0.00					1/2" Ice	3.41	44.49
				0.00					1" Ice	3.67	61.98
HP2-18	B	Paraboloid w/Shroud (HP)	From Leg	0.00	Worst		123.50	2.00	No Ice	3.14	27.00
				0.00					1/2" Ice	3.41	44.49
				0.00					1" Ice	3.67	61.98
P-9A72GN-S	B	Paraboloid w/o Radome	From Leg	1.00	Worst		130.00	6.00	No Ice	22.60	112.00
				0.00					1/2" Ice	29.05	261.13
				0.00					1" Ice	35.50	410.25
P-9A72GN-S	B	Paraboloid w/o Radome	From Leg	0.00	Worst		251.00	6.00	No Ice	22.60	112.00
				0.00					1/2" Ice	29.05	261.13
				0.00					1" Ice	35.50	410.25
SPD6-58	A	Paraboloid w/o Radome	From Leg	0.00	Worst		274.00	3.00	No Ice	5.70	35.00
				0.00					1/2" Ice	7.46	73.31
				0.00					1" Ice	9.23	111.62
P-9A72GN-S	C	Paraboloid w/o Radome	From Leg	0.00	Worst		308.00	6.00	No Ice	22.60	112.00
				0.00					1/2" Ice	29.05	261.13
				0.00					1" Ice	35.50	410.25
P-9A120GN	C	Paraboloid w/o	From	2.00	Worst		317.50	4.00	No Ice	10.10	112.00

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft		Aperture Area ft^2	Weight lb
		Radome	Leg	0.00					1/2" Ice	13.09	179.19
				0.00					1" Ice	16.08	246.38

Tower Pressures - No Ice

G_H = 0.850 (base tower), 1.100 (upper structure)

Section Elevation ft	z ft	K_Z	q_z psf	A_G ft^2	Face	A_F ft^2	A_R ft^2	A_{leg} ft^2	Leg %	C_AA_A In Face ft^2	C_AA_A Out Face ft^2
L1	337.50	1.635	29	39.063	A	0.000	5.954	3.125	52.48	6.776	0.000
345.00-330.00					B	0.000	5.954		52.48	0.000	0.000
					C	0.000	5.954		52.48	2.408	0.000
T1	325.00	1.622	29	51.875	A	0.316	8.057	3.750	44.79	15.255	0.000
330.00-320.00					B	0.316	8.057		44.79	5.000	0.000
					C	0.316	8.057		44.79	7.130	0.000
T2	310.00	1.606	29	103.750	A	0.000	15.706	7.500	47.75	36.315	0.000
320.00-300.00					B	0.000	15.706		47.75	10.000	0.000
					C	0.000	15.706		47.75	14.260	0.000
T3	290.00	1.584	29	103.750	A	0.000	15.706	7.500	47.75	39.690	0.000
300.00-280.00					B	0.000	15.706		47.75	14.073	0.000
					C	0.000	15.706		47.75	20.770	0.000
T4	270.00	1.56	28	103.750	A	0.000	16.644	7.500	45.06	43.659	0.000
280.00-260.00					B	0.000	16.644		45.06	14.700	0.000
					C	0.000	16.644		45.06	24.905	0.000
T5	250.00	1.535	28	103.750	A	0.000	16.644	7.500	45.06	46.218	0.000
260.00-240.00					B	0.000	16.644		45.06	14.700	0.000
					C	0.000	16.644		45.06	29.178	0.000
T6	230.00	1.508	27	103.750	A	0.000	16.644	7.500	45.06	54.812	0.000
240.00-220.00					B	0.000	16.644		45.06	14.700	0.000
					C	0.000	16.644		45.06	30.960	0.000
T7	210.00	1.48	27	104.167	A	0.000	17.789	8.333	46.85	73.037	0.000
220.00-200.00					B	0.000	17.789		46.85	16.826	0.000
					C	0.000	17.789		46.85	31.813	0.000
T8	190.00	1.449	26	104.583	A	0.000	20.796	9.167	44.08	90.643	0.000
200.00-180.00					B	0.000	20.796		44.08	66.220	0.000
					C	0.000	20.796		44.08	34.060	0.000
T9	170.00	1.415	26	104.583	A	0.000	20.796	9.167	44.08	107.870	0.000
180.00-160.00					B	0.000	20.796		44.08	88.792	0.000
					C	0.000	20.796		44.08	34.060	0.000
T10	150.00	1.378	25	104.583	A	0.000	18.625	9.167	49.22	108.792	0.000
160.00-140.00					B	0.000	18.625		49.22	113.740	0.000
					C	0.000	18.625		49.22	34.060	0.000
T11	130.00	1.337	24	104.583	A	0.000	18.625	9.167	49.22	111.660	0.000
140.00-120.00					B	0.000	18.625		49.22	115.484	0.000
					C	0.000	18.625		49.22	34.060	0.000
T12	110.00	1.291	23	104.583	A	0.000	18.625	9.167	49.22	116.801	0.000
120.00-100.00					B	0.000	18.625		49.22	115.920	0.000
					C	0.000	18.625		49.22	34.060	0.000
T13	90.00	1.238	22	104.583	A	0.000	18.625	9.167	49.22	119.330	0.000
100.00-80.00					B	0.000	18.625		49.22	116.550	0.000
					C	0.000	18.625		49.22	34.060	0.000
T14	70.00	1.174	21	104.583	A	0.000	18.625	9.167	49.22	119.330	0.000
80.00-60.00					B	0.000	18.625		49.22	117.180	0.000

Section Elevation ft	z ft	K_Z	q_z psf	A_G ft^2	Face	A_F ft^2	A_R ft^2	A_{leg} ft^2	Leg %	C_AA_A In Face ft^2	C_AA_A Out Face ft^2
					C	0.000	18.625		49.22	34.060	0.000
T15	50.00	1.094	20	104.583	A	0.000	18.625	9.167	49.22	119.330	0.000
60.00-40.00					B	0.000	18.625		49.22	117.180	0.000
					C	0.000	18.625		49.22	34.060	0.000
T16	30.00	0.982	18	104.583	A	0.000	18.625	9.167	49.22	119.330	0.000
40.00-20.00					B	0.000	18.625		49.22	117.180	0.000
					C	0.000	18.625		49.22	36.076	0.000
T17	16.00	0.86	16	41.833	A	0.000	8.478	3.667	43.25	47.732	0.000
20.00-12.00					B	0.000	8.478		43.25	46.872	0.000
					C	0.000	8.478		43.25	14.632	0.000
T18 12.00-6.67	9.33	0.85	15	27.889	A	0.626	4.067	2.444	52.08	31.821	0.000
					B	0.626	4.067		52.08	31.248	0.000
					C	0.626	4.067		52.08	9.755	0.000
T19 6.67-0.00	3.33	0.85	15	18.298	A	0.515	6.851	3.330	45.20	0.040	0.000
					B	0.515	6.851		45.20	0.039	0.000
					C	0.515	6.851		45.20	0.012	0.000

Tower Pressure - With Ice

G_H = 0.850 (base tower), 1.100 (upper structure)

Section Elevation ft	z ft	K_Z	q_z psf	t_Z in	A_G ft^2	Face	A_F ft^2	A_R ft^2	A_{leg} ft^2	Leg %	C_AA_A In Face ft^2	C_AA_A Out Face ft^2
L1	337.50	1.635	9	1.8926	43.794	A	0.000	35.334	12.588	35.63	26.175	0.000
345.00-330.00						B	0.000	35.334		35.63	0.000	0.000
						C	0.000	35.334		35.63	9.032	0.000
T1	325.00	1.622	9	1.8855	55.018	A	0.316	33.545	10.035	29.64	40.982	0.000
330.00-320.00						B	0.316	33.545		29.64	9.190	0.000
						C	0.316	33.545		29.64	18.862	0.000
T2	310.00	1.606	9	1.8766	110.005	A	0.000	61.754	20.011	32.40	101.600	0.000
320.00-300.00						B	0.000	61.754		32.40	18.341	0.000
						C	0.000	61.754		32.40	37.614	0.000
T3	290.00	1.584	9	1.8641	109.964	A	0.000	61.448	19.928	32.43	112.930	0.000
300.00-280.00						B	0.000	61.448		32.43	28.819	0.000
						C	0.000	61.448		32.43	61.008	0.000
T4	270.00	1.56	8	1.8509	109.920	A	0.000	62.060	19.839	31.97	128.593	0.000
280.00-260.00						B	0.000	62.060		31.97	30.330	0.000
						C	0.000	62.060		31.97	78.949	0.000
T5	250.00	1.535	8	1.8367	109.872	A	0.000	61.712	19.745	31.99	137.481	0.000
260.00-240.00						B	0.000	61.712		31.99	30.210	0.000
						C	0.000	61.712		31.99	94.930	0.000
T6	230.00	1.508	8	1.8214	109.821	A	0.000	61.338	19.643	32.02	155.849	0.000
240.00-220.00						B	0.000	61.338		32.02	30.081	0.000
						C	0.000	61.338		32.02	99.546	0.000
T7	210.00	1.48	8	1.8049	110.183	A	0.000	61.918	20.366	32.89	193.639	0.000
220.00-200.00						B	0.000	61.918		32.89	39.106	0.000
						C	0.000	61.918		32.89	101.872	0.000
T8	190.00	1.449	8	1.7870	110.540	A	0.000	64.350	21.080	32.76	246.937	0.000
200.00-180.00						B	0.000	64.350		32.76	151.551	0.000
						C	0.000	64.350		32.76	108.725	0.000
T9	170.00	1.415	8	1.7672	110.474	A	0.000	63.868	20.948	32.80	299.147	0.000
180.00-160.00						B	0.000	63.868		32.80	168.986	0.000
						C	0.000	63.868		32.80	108.034	0.000
T10	150.00	1.378	7	1.7452	110.401	A	0.000	61.161	20.801	34.01	301.865	0.000

Section Elevation ft	z ft	K_Z	q_z psf	t_Z in	A_G ft^2	Face	A_F ft^2	A_R ft^2	A_{leg} ft^2	Leg %	C_AA_A In Face ft^2	C_AA_A Out Face ft^2
160.00-140.00						B	0.000	61.161		34.01	188.096	0.000
						C	0.000	61.161		34.01	107.265	0.000
T11	130.00	1.337	7	1.7204	110.318	A	0.000	60.557	20.636	34.08	310.411	0.000
140.00-120.00						B	0.000	60.557		34.08	194.078	0.000
						C	0.000	60.557		34.08	106.397	0.000
T12	110.00	1.291	7	1.6919	110.223	A	0.000	59.862	20.446	34.16	330.175	0.000
120.00-100.00						B	0.000	59.862		34.16	194.320	0.000
						C	0.000	59.862		34.16	105.401	0.000
T13	90.00	1.238	7	1.6583	110.111	A	0.000	59.043	20.222	34.25	340.562	0.000
100.00-80.00						B	0.000	59.043		34.25	196.415	0.000
						C	0.000	59.043		34.25	104.225	0.000
T14 80.00-60.00	70.00	1.174	6	1.6171	109.974	A	0.000	58.040	19.948	34.37	336.051	0.000
						B	0.000	58.040		34.37	197.930	0.000
						C	0.000	58.040		34.37	102.787	0.000
T15 60.00-40.00	50.00	1.094	6	1.5636	109.795	A	0.000	56.736	19.591	34.53	330.187	0.000
						B	0.000	56.736		34.53	194.769	0.000
						C	0.000	56.736		34.53	100.917	0.000
T16 40.00-20.00	30.00	0.982	5	1.4858	109.536	A	0.000	54.838	19.072	34.78	321.657	0.000
						B	0.000	54.838		34.78	190.172	0.000
						C	0.000	54.838		34.78	110.298	0.000
T17 20.00-12.00	16.00	0.86	5	1.3952	43.694	A	0.000	23.764	7.387	31.09	124.699	0.000
						B	0.000	23.764		31.09	73.932	0.000
						C	0.000	23.764		31.09	43.812	0.000
T18 12.00-6.67	9.33	0.85	5	1.3220	29.064	A	0.626	11.917	4.795	38.23	80.996	0.000
						B	0.626	11.917		38.23	48.136	0.000
						C	0.626	11.917		38.23	28.391	0.000
T19 6.67-0.00	3.33	0.85	5	1.1927	19.714	A	0.515	18.549	6.218	32.62	0.097	0.000
						B	0.515	18.549		32.62	0.058	0.000
						C	0.515	18.549		32.62	0.034	0.000

Tower Pressure - Service

G_H = 0.850 (base tower), 1.100 (upper structure)

Section Elevation ft	z ft	K_Z	q_z psf	A_G ft^2	Face	A_F ft^2	A_R ft^2	A_{leg} ft^2	Leg %	C_AA_A In Face ft^2	C_AA_A Out Face ft^2
L1	337.50	1.635	13	39.063	A	0.000	5.954	3.125	52.48	6.776	0.000
345.00-330.00					B	0.000	5.954		52.48	0.000	0.000
					C	0.000	5.954		52.48	2.408	0.000
T1	325.00	1.622	13	51.875	A	0.316	8.057	3.750	44.79	15.255	0.000
330.00-320.00					B	0.316	8.057		44.79	5.000	0.000
					C	0.316	8.057		44.79	7.130	0.000
T2	310.00	1.606	13	103.750	A	0.000	15.706	7.500	47.75	36.315	0.000
320.00-300.00					B	0.000	15.706		47.75	10.000	0.000
					C	0.000	15.706		47.75	14.260	0.000
T3	290.00	1.584	12	103.750	A	0.000	15.706	7.500	47.75	39.690	0.000
300.00-280.00					B	0.000	15.706		47.75	14.073	0.000
					C	0.000	15.706		47.75	20.770	0.000
T4	270.00	1.56	12	103.750	A	0.000	16.644	7.500	45.06	43.659	0.000
280.00-260.00					B	0.000	16.644		45.06	14.700	0.000
					C	0.000	16.644		45.06	24.905	0.000
T5	250.00	1.535	12	103.750	A	0.000	16.644	7.500	45.06	46.218	0.000
260.00-240.00					B	0.000	16.644		45.06	14.700	0.000

Section Elevation ft	z ft	K_Z	q_z psf	A_G ft^2	Face	A_F ft^2	A_R ft^2	A_{leg} ft^2	Leg %	C_AA_A In Face ft^2	C_AA_A Out Face ft^2
					C	0.000	16.644		45.06	29.178	0.000
T6	230.00	1.508	12	103.750	A	0.000	16.644	7.500	45.06	54.812	0.000
240.00-220.00					B	0.000	16.644		45.06	14.700	0.000
					C	0.000	16.644		45.06	30.960	0.000
T7	210.00	1.48	12	104.167	A	0.000	17.789	8.333	46.85	73.037	0.000
220.00-200.00					B	0.000	17.789		46.85	16.826	0.000
					C	0.000	17.789		46.85	31.813	0.000
T8	190.00	1.449	11	104.583	A	0.000	20.796	9.167	44.08	90.643	0.000
200.00-180.00					B	0.000	20.796		44.08	66.220	0.000
					C	0.000	20.796		44.08	34.060	0.000
T9	170.00	1.415	11	104.583	A	0.000	20.796	9.167	44.08	107.870	0.000
180.00-160.00					B	0.000	20.796		44.08	88.792	0.000
					C	0.000	20.796		44.08	34.060	0.000
T10	150.00	1.378	11	104.583	A	0.000	18.625	9.167	49.22	108.792	0.000
160.00-140.00					B	0.000	18.625		49.22	113.740	0.000
					C	0.000	18.625		49.22	34.060	0.000
T11	130.00	1.337	10	104.583	A	0.000	18.625	9.167	49.22	111.660	0.000
140.00-120.00					B	0.000	18.625		49.22	115.484	0.000
					C	0.000	18.625		49.22	34.060	0.000
T12	110.00	1.291	10	104.583	A	0.000	18.625	9.167	49.22	116.801	0.000
120.00-100.00					B	0.000	18.625		49.22	115.920	0.000
					C	0.000	18.625		49.22	34.060	0.000
T13	90.00	1.238	10	104.583	A	0.000	18.625	9.167	49.22	119.330	0.000
100.00-80.00					B	0.000	18.625		49.22	116.550	0.000
					C	0.000	18.625		49.22	34.060	0.000
T14	70.00	1.174	9	104.583	A	0.000	18.625	9.167	49.22	119.330	0.000
80.00-60.00					B	0.000	18.625		49.22	117.180	0.000
					C	0.000	18.625		49.22	34.060	0.000
T15	50.00	1.094	9	104.583	A	0.000	18.625	9.167	49.22	119.330	0.000
60.00-40.00					B	0.000	18.625		49.22	117.180	0.000
					C	0.000	18.625		49.22	34.060	0.000
T16	30.00	0.982	8	104.583	A	0.000	18.625	9.167	49.22	119.330	0.000
40.00-20.00					B	0.000	18.625		49.22	117.180	0.000
					C	0.000	18.625		49.22	36.076	0.000
T17	16.00	0.86	7	41.833	A	0.000	8.478	3.667	43.25	47.732	0.000
20.00-12.00					B	0.000	8.478		43.25	46.872	0.000
					C	0.000	8.478		43.25	14.632	0.000
T18 12.00-6.67	9.33	0.85	7	27.889	A	0.626	4.067	2.444	52.08	31.821	0.000
					B	0.626	4.067		52.08	31.248	0.000
					C	0.626	4.067		52.08	9.755	0.000
T19 6.67-0.00	3.33	0.85	7	18.298	A	0.515	6.851	3.330	45.20	0.040	0.000
					B	0.515	6.851		45.20	0.039	0.000
					C	0.515	6.851		45.20	0.012	0.000

Tower Forces - No Ice - Wind Normal To Face

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft^2	F lb	w plf	Ctrl. Face
L1	143.92	339.39	A	0.152	2.763	29	1	1	3.381	481.25	32.08	C
345.00-330.00			B	0.152	2.763		1	1	3.381			
			C	0.152	2.763		1	1	3.381			
T1	436.90	1038.20	A	0.161	2.73	29	1	1	4.899	740.47	74.05	C
330.00-320.00			B	0.161	2.73		1	1	4.899			
			C	0.161	2.73		1	1	4.899			
T2	896.51	1553.07	A	0.151	2.766	29	1	1	8.916	1500.76	75.04	C

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft^2	F lb	w plf	Ctrl. Face
320.00-300.00			B	0.151	2.766		1	1	8.916			
			C	0.151	2.766		1	1	8.916			
T3	958.46	1553.07	A	0.151	2.766	29	1	1	8.916	1682.96	84.15	C
300.00-280.00			B	0.151	2.766		1	1	8.916			
			C	0.151	2.766		1	1	8.916			
T4	991.43	1728.92	A	0.16	2.734	28	1	1	9.465	1811.87	90.59	C
280.00-260.00			B	0.16	2.734		1	1	9.465			
			C	0.16	2.734		1	1	9.465			
T5	1015.58	1728.92	A	0.16	2.734	28	1	1	9.465	1879.12	93.96	C
260.00-240.00			B	0.16	2.734		1	1	9.465			
			C	0.16	2.734		1	1	9.465			
T6	1057.58	1728.92	A	0.16	2.734	27	1	1	9.465	1976.55	98.83	A
240.00-220.00			B	0.16	2.734		1	1	9.465			
			C	0.16	2.734		1	1	9.465			
T7	1143.29	1999.24	A	0.171	2.697	27	1	1	10.139	2260.62	113.03	A
220.00-200.00			B	0.171	2.697		1	1	10.139			
			C	0.171	2.697		1	1	10.139			
T8	1426.44	2728.70	A	0.199	2.6	26	1	1	11.943	2951.56	147.58	A
200.00-180.00			B	0.199	2.6		1	1	11.943			
			C	0.199	2.6		1	1	11.943			
T9	1591.68	2728.70	A	0.199	2.6	26	1	1	11.943	3213.63	160.68	A
180.00-160.00		TA	B	0.199	2.6		1	1	11.943			
		1159.20	C	0.199	2.6		1	1	11.943			
T10	1696.59	2220.23	A	0.178	2.671	25	1	1	10.634	3200.32	160.02	A
160.00-140.00			B	0.178	2.671		1	1	10.634			
			C	0.178	2.671		1	1	10.634			
T11	1711.55	2220.23	A	0.178	2.671	24	1	1	10.634	3162.03	158.10	A
140.00-120.00			B	0.178	2.671		1	1	10.634			
			C	0.178	2.671		1	1	10.634			
T12	1732.02	2220.23	A	0.178	2.671	23	1	1	10.634	3118.94	155.95	A
120.00-100.00			B	0.178	2.671		1	1	10.634			
			C	0.178	2.671		1	1	10.634			
T13	1741.70	2220.23	A	0.178	2.671	22	1	1	10.634	3025.86	151.29	A
100.00-80.00			B	0.178	2.671		1	1	10.634			
			C	0.178	2.671		1	1	10.634			
T14	1743.20	2220.23	A	0.178	2.671	21	1	1	10.634	2876.72	143.84	A
80.00-60.00			B	0.178	2.671		1	1	10.634			
			C	0.178	2.671		1	1	10.634			
T15	1743.20	2220.23	A	0.178	2.671	20	1	1	10.634	2680.00	134.00	A
60.00-40.00			B	0.178	2.671		1	1	10.634			
			C	0.178	2.671		1	1	10.634			
T16	1748.00	2220.23	A	0.178	2.671	18	1	1	10.634	2423.80	121.19	A
40.00-20.00			B	0.178	2.671		1	1	10.634			
			C	0.178	2.671		1	1	10.634			
T17	699.68	1051.19	A	0.203	2.587	16	1	1	4.874	867.31	108.41	A
20.00-12.00			B	0.203	2.587		1	1	4.874			
			C	0.203	2.587		1	1	4.874			
T18	466.45	1011.04	A	0.168	2.705	15	1	1	2.943	565.35	106.00	A
12.00-6.67			B	0.168	2.705		1	1	2.943			
			C	0.168	2.705		1	1	2.943			
T19 6.67-0.00	0.59	1284.55	A	0.403	2.059	15	1	1	4.882	131.43	19.71	A
			B	0.403	2.059		1	1	4.882			
			C	0.403	2.059		1	1	4.882			
Sum Weight:	22944.77	37174.72								40550.56		

Tower Forces - No Ice - Wind 60 To Face

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft^2	F lb	w plf	Ctrl. Face
L1	143.92	339.39	A	0.152	2.763	29	0.8	1	3.381	481.25	32.08	C
345.00-330.00			B	0.152	2.763		0.8	1	3.381			
			C	0.152	2.763		0.8	1	3.381			
T1	436.90	1038.20	A	0.161	2.73	29	0.8	1	4.836	736.19	73.62	C
330.00-320.00			B	0.161	2.73		0.8	1	4.836			
			C	0.161	2.73		0.8	1	4.836			
T2	896.51	1553.07	A	0.151	2.766	29	0.8	1	8.916	1500.76	75.04	C
320.00-300.00			B	0.151	2.766		0.8	1	8.916			
			C	0.151	2.766		0.8	1	8.916			
T3	958.46	1553.07	A	0.151	2.766	29	0.8	1	8.916	1682.96	84.15	A
300.00-280.00			B	0.151	2.766		0.8	1	8.916			
			C	0.151	2.766		0.8	1	8.916			
T4	991.43	1728.92	A	0.16	2.734	28	0.8	1	9.465	1811.87	90.59	A
280.00-260.00			B	0.16	2.734		0.8	1	9.465			
			C	0.16	2.734		0.8	1	9.465			
T5	1015.58	1728.92	A	0.16	2.734	28	0.8	1	9.465	1879.12	93.96	A
260.00-240.00			B	0.16	2.734		0.8	1	9.465			
			C	0.16	2.734		0.8	1	9.465			
T6	1057.58	1728.92	A	0.16	2.734	27	0.8	1	9.465	1976.55	98.83	B
240.00-220.00			B	0.16	2.734		0.8	1	9.465			
			C	0.16	2.734		0.8	1	9.465			
T7	1143.29	1999.24	A	0.171	2.697	27	0.8	1	10.139	2260.62	113.03	B
220.00-200.00			B	0.171	2.697		0.8	1	10.139			
			C	0.171	2.697		0.8	1	10.139			
T8	1426.44	2728.70	A	0.199	2.6	26	0.8	1	11.943	2951.56	147.58	B
200.00-180.00			B	0.199	2.6		0.8	1	11.943			
			C	0.199	2.6		0.8	1	11.943			
T9	1591.68	2728.70	A	0.199	2.6	26	0.8	1	11.943	3213.63	160.68	B
180.00-160.00		TA	B	0.199	2.6		0.8	1	11.943			
		1159.20	C	0.199	2.6		0.8	1	11.943			
T10	1696.59	2220.23	A	0.178	2.671	25	0.8	1	10.634	3200.32	160.02	B
160.00-140.00			B	0.178	2.671		0.8	1	10.634			
			C	0.178	2.671		0.8	1	10.634			
T11	1711.55	2220.23	A	0.178	2.671	24	0.8	1	10.634	3162.03	158.10	B
140.00-120.00			B	0.178	2.671		0.8	1	10.634			
			C	0.178	2.671		0.8	1	10.634			
T12	1732.02	2220.23	A	0.178	2.671	23	0.8	1	10.634	3118.94	155.95	B
120.00-100.00			B	0.178	2.671		0.8	1	10.634			
			C	0.178	2.671		0.8	1	10.634			
T13	1741.70	2220.23	A	0.178	2.671	22	0.8	1	10.634	3025.86	151.29	B
100.00-80.00			B	0.178	2.671		0.8	1	10.634			
			C	0.178	2.671		0.8	1	10.634			
T14	1743.20	2220.23	A	0.178	2.671	21	0.8	1	10.634	2876.72	143.84	B
80.00-60.00			B	0.178	2.671		0.8	1	10.634			
			C	0.178	2.671		0.8	1	10.634			
T15	1743.20	2220.23	A	0.178	2.671	20	0.8	1	10.634	2680.00	134.00	B
60.00-40.00			B	0.178	2.671		0.8	1	10.634			
			C	0.178	2.671		0.8	1	10.634			
T16	1748.00	2220.23	A	0.178	2.671	18	0.8	1	10.634	2423.80	121.19	B
40.00-20.00			B	0.178	2.671		0.8	1	10.634			
			C	0.178	2.671		0.8	1	10.634			
T17	699.68	1051.19	A	0.203	2.587	16	0.8	1	4.874	867.31	108.41	B
20.00-12.00			B	0.203	2.587		0.8	1	4.874			
			C	0.203	2.587		0.8	1	4.874			
T18	466.45	1011.04	A	0.168	2.705	15	0.8	1	2.818	560.94	105.18	B
12.00-6.67			B	0.168	2.705		0.8	1	2.818			
			C	0.168	2.705		0.8	1	2.818			

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft^2	F lb	w plf	Ctrl. Face
T19 6.67-0.00	0.59	1284.55	A	0.403	2.059	15	0.8	1	4.779	128.67	19.30	B
			B	0.403	2.059		0.8	1	4.779			
			C	0.403	2.059		0.8	1	4.779			
Sum Weight:	22944.77	37174.72								40539.11		

Tower Forces - No Ice - Wind 90 To Face

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft^2	F lb	w plf	Ctrl. Face
L1	143.92	339.39	A	0.152	2.763	29	0.85	1	3.381	481.25	32.08	C
345.00-330.00			B	0.152	2.763		0.85	1	3.381			
			C	0.152	2.763		0.85	1	3.381			
T1	436.90	1038.20	A	0.161	2.73	29	0.85	1	4.851	737.26	73.73	C
330.00-320.00			B	0.161	2.73		0.85	1	4.851			
			C	0.161	2.73		0.85	1	4.851			
T2	896.51	1553.07	A	0.151	2.766	29	0.85	1	8.916	1500.76	75.04	C
320.00-300.00			B	0.151	2.766		0.85	1	8.916			
			C	0.151	2.766		0.85	1	8.916			
T3	958.46	1553.07	A	0.151	2.766	29	0.85	1	8.916	1682.96	84.15	B
300.00-280.00			B	0.151	2.766		0.85	1	8.916			
			C	0.151	2.766		0.85	1	8.916			
T4	991.43	1728.92	A	0.16	2.734	28	0.85	1	9.465	1811.87	90.59	B
280.00-260.00			B	0.16	2.734		0.85	1	9.465			
			C	0.16	2.734		0.85	1	9.465			
T5	1015.58	1728.92	A	0.16	2.734	28	0.85	1	9.465	1879.12	93.96	B
260.00-240.00			B	0.16	2.734		0.85	1	9.465			
			C	0.16	2.734		0.85	1	9.465			
T6	1057.58	1728.92	A	0.16	2.734	27	0.85	1	9.465	1990.24	99.51	B
240.00-220.00			B	0.16	2.734		0.85	1	9.465			
			C	0.16	2.734		0.85	1	9.465			
T7	1143.29	1999.24	A	0.171	2.697	27	0.85	1	10.139	2274.05	113.70	B
220.00-200.00			B	0.171	2.697		0.85	1	10.139			
			C	0.171	2.697		0.85	1	10.139			
T8	1426.44	2728.70	A	0.199	2.6	26	0.85	1	11.943	3030.63	151.53	C
200.00-180.00			B	0.199	2.6		0.85	1	11.943			
			C	0.199	2.6		0.85	1	11.943			
T9	1591.68	2728.70	A	0.199	2.6	26	0.85	1	11.943	3304.61	165.23	C
180.00-160.00		TA	B	0.199	2.6		0.85	1	11.943			
		1159.20	C	0.199	2.6		0.85	1	11.943			
T10	1696.59	2220.23	A	0.178	2.671	25	0.85	1	10.634	3303.74	165.19	C
160.00-140.00			B	0.178	2.671		0.85	1	10.634			
			C	0.178	2.671		0.85	1	10.634			
T11	1711.55	2220.23	A	0.178	2.671	24	0.85	1	10.634	3262.38	163.12	C
140.00-120.00			B	0.178	2.671		0.85	1	10.634			
			C	0.178	2.671		0.85	1	10.634			
T12	1732.02	2220.23	A	0.178	2.671	23	0.85	1	10.634	3215.82	160.79	C
120.00-100.00			B	0.178	2.671		0.85	1	10.634			
			C	0.178	2.671		0.85	1	10.634			
T13	1741.70	2220.23	A	0.178	2.671	22	0.85	1	10.634	3118.73	155.94	C
100.00-80.00			B	0.178	2.671		0.85	1	10.634			
			C	0.178	2.671		0.85	1	10.634			
T14	1743.20	2220.23	A	0.178	2.671	21	0.85	1	10.634	2964.81	148.24	C

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft^2	F lb	w plf	Ctrl. Face
80.00-60.00			B	0.178	2.671		0.85	1	10.634			
			C	0.178	2.671		0.85	1	10.634			
T15	1743.20	2220.23	A	0.178	2.671	20	0.85	1	10.634	2762.06	138.10	C
60.00-40.00			B	0.178	2.671		0.85	1	10.634			
			C	0.178	2.671		0.85	1	10.634			
T16	1748.00	2220.23	A	0.178	2.671	18	0.85	1	10.634	2491.81	124.59	C
40.00-20.00			B	0.178	2.671		0.85	1	10.634			
			C	0.178	2.671		0.85	1	10.634			
T17	699.68	1051.19	A	0.203	2.587	16	0.85	1	4.874	890.64	111.33	C
20.00-12.00			B	0.203	2.587		0.85	1	4.874			
			C	0.203	2.587		0.85	1	4.874			
T18	466.45	1011.04	A	0.168	2.705	15	0.85	1	2.849	577.41	108.27	C
12.00-6.67			B	0.168	2.705		0.85	1	2.849			
			C	0.168	2.705		0.85	1	2.849			
T19 6.67-0.00	0.59	1284.55	A	0.403	2.059	15	0.85	1	4.804	129.38	19.41	C
			B	0.403	2.059		0.85	1	4.804			
			C	0.403	2.059		0.85	1	4.804			
Sum Weight:	22944.77	37174.72								41409.50		

Tower Forces - With Ice - Wind Normal To Face

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft^2	F lb	w plf	Ctrl. Face
L1	539.17	1691.77	A	0.807	1.821	9	1	1	31.477	627.41	41.83	C
345.00-330.00			B	0.807	1.821		1	1	31.477			
			C	0.807	1.821		1	1	31.477			
T1	1552.97	2645.94	A	0.615	1.795	9	1	1	25.597	543.77	54.38	C
330.00-320.00			B	0.615	1.795		1	1	25.597			
			C	0.615	1.795		1	1	25.597			
T2	3411.34	4104.24	A	0.561	1.833	9	1	1	44.461	1118.42	55.92	C
320.00-300.00			B	0.561	1.833		1	1	44.461			
			C	0.561	1.833		1	1	44.461			
T3	4084.88	4076.71	A	0.559	1.835	9	1	1	44.146	1242.25	62.11	C
300.00-280.00			B	0.559	1.835		1	1	44.146			
			C	0.559	1.835		1	1	44.146			
T4	4575.69	4298.98	A	0.565	1.83	8	1	1	44.802	1330.14	66.51	C
280.00-260.00			B	0.565	1.83		1	1	44.802			
			C	0.565	1.83		1	1	44.802			
T5	4932.65	4267.42	A	0.562	1.833	8	1	1	44.442	1386.84	69.34	C
260.00-240.00			B	0.562	1.833		1	1	44.442			
			C	0.562	1.833		1	1	44.442			
T6	5253.94	4233.70	A	0.559	1.836	8	1	1	44.057	1409.39	70.47	C
240.00-220.00			B	0.559	1.836		1	1	44.057			
			C	0.559	1.836		1	1	44.057			
T7	5952.84	4524.25	A	0.562	1.833	8	1	1	44.601	1507.93	75.40	A
220.00-200.00			B	0.562	1.833		1	1	44.601			
			C	0.562	1.833		1	1	44.601			
T8	8247.16	5417.08	A	0.582	1.816	8	1	1	47.143	1555.05*	77.75	C
200.00-180.00			B	0.582	1.816		1	1	47.143			
			C	0.582	1.816		1	1	47.143			
T9	9277.15	5371.46	A	0.578	1.819	8	1	1	46.632	1518.15*	75.91	C
180.00-160.00		TA	B	0.578	1.819		1	1	46.632			

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft^2	F lb	w plf	Ctrl. Face
		2355.30	C	0.578	1.819		1	1	46.632			
T10	9622.03	4646.29	A	0.554	1.84	7	1	1	43.765	1477.69*	73.88	C
160.00-140.00			B	0.554	1.84		1	1	43.765			
			C	0.554	1.84		1	1	43.765			
T11	9738.24	4592.43	A	0.549	1.845	7	1	1	43.152	1432.76*	71.64	C
140.00-120.00			B	0.549	1.845		1	1	43.152			
			C	0.549	1.845		1	1	43.152			
T12	9885.17	4531.20	A	0.543	1.85	7	1	1	42.453	1382.06*	69.10	C
120.00-100.00			B	0.543	1.85		1	1	42.453			
			C	0.543	1.85		1	1	42.453			
T13	9869.75	4459.95	A	0.536	1.857	7	1	1	41.637	1323.54*	66.18	C
100.00-80.00			B	0.536	1.857		1	1	41.637			
			C	0.536	1.857		1	1	41.637			
T14	9668.52	4374.10	A	0.528	1.867	6	1	1	40.649	1253.77*	62.69	C
80.00-60.00			B	0.528	1.867		1	1	40.649			
			C	0.528	1.867		1	1	40.649			
T15	9349.13	4264.80	A	0.517	1.879	6	1	1	39.385	1166.14*	58.31	C
60.00-40.00			B	0.517	1.879		1	1	39.385			
			C	0.517	1.879		1	1	39.385			
T16	8985.87	4110.38	A	0.501	1.899	5	1	1	37.583	1044.76*	52.24	C
40.00-20.00			B	0.501	1.899		1	1	37.583			
			C	0.501	1.899		1	1	37.583			
T17	3393.20	1852.75	A	0.544	1.849	5	1	1	16.864	365.09*	45.64	C
20.00-12.00			B	0.544	1.849		1	1	16.864			
			C	0.544	1.849		1	1	16.864			
T18	2151.57	1652.54	A	0.432	2.005	5	1	1	8.378	239.89*	44.98	C
12.00-6.67			B	0.432	2.005		1	1	8.378			
			C	0.432	2.005		1	1	8.378			
T19 6.67-0.00	2.47	2054.50	A	0.967	2.034	5	1	1	19.064	152.46	22.87	A
			B	0.967	2.034		1	1	19.064			
			C	0.967	2.034		1	1	19.064			
Sum Weight:	120493.72	79525.79			*2.1A_g limit					22077.54		

Tower Forces - With Ice - Wind 60 To Face

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft^2	F lb	w plf	Ctrl. Face
L1	539.17	1691.77	A	0.807	1.821	9	0.8	1	31.477	627.41	41.83	C
345.00-330.00			B	0.807	1.821		0.8	1	31.477			
			C	0.807	1.821		0.8	1	31.477			
T1	1552.97	2645.94	A	0.615	1.795	9	0.8	1	25.533	542.92	54.29	C
330.00-320.00			B	0.615	1.795		0.8	1	25.533			
			C	0.615	1.795		0.8	1	25.533			
T2	3411.34	4104.24	A	0.561	1.833	9	0.8	1	44.461	1118.42	55.92	C
320.00-300.00			B	0.561	1.833		0.8	1	44.461			
			C	0.561	1.833		0.8	1	44.461			
T3	4084.88	4076.71	A	0.559	1.835	9	0.8	1	44.146	1242.25	62.11	A
300.00-280.00			B	0.559	1.835		0.8	1	44.146			
			C	0.559	1.835		0.8	1	44.146			
T4	4575.69	4298.98	A	0.565	1.83	8	0.8	1	44.802	1330.14	66.51	A
280.00-260.00			B	0.565	1.83		0.8	1	44.802			

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft^2	F lb	w plf	Ctrl. Face
			C	0.565	1.83		0.8	1	44.802			
T5	4932.65	4267.42	A	0.562	1.833	8	0.8	1	44.442	1386.84	69.34	A
260.00-240.00			B	0.562	1.833		0.8	1	44.442			
			C	0.562	1.833		0.8	1	44.442			
T6	5253.94	4233.70	A	0.559	1.836	8	0.8	1	44.057	1409.39	70.47	A
240.00-220.00			B	0.559	1.836		0.8	1	44.057			
			C	0.559	1.836		0.8	1	44.057			
T7	5952.84	4524.25	A	0.562	1.833	8	0.8	1	44.601	1507.93	75.40	B
220.00-200.00			B	0.562	1.833		0.8	1	44.601			
			C	0.562	1.833		0.8	1	44.601			
T8	8247.16	5417.08	A	0.582	1.816	8	0.8	1	47.143	1555.05*	77.75	C
200.00-180.00			B	0.582	1.816		0.8	1	47.143			
			C	0.582	1.816		0.8	1	47.143			
T9	9277.15	5371.46	A	0.578	1.819	8	0.8	1	46.632	1518.15*	75.91	C
180.00-160.00		TA	B	0.578	1.819		0.8	1	46.632			
		2355.30	C	0.578	1.819		0.8	1	46.632			
T10	9622.03	4646.29	A	0.554	1.84	7	0.8	1	43.765	1477.69*	73.88	C
160.00-140.00			B	0.554	1.84		0.8	1	43.765			
			C	0.554	1.84		0.8	1	43.765			
T11	9738.24	4592.43	A	0.549	1.845	7	0.8	1	43.152	1432.76*	71.64	C
140.00-120.00			B	0.549	1.845		0.8	1	43.152			
			C	0.549	1.845		0.8	1	43.152			
T12	9885.17	4531.20	A	0.543	1.85	7	0.8	1	42.453	1382.06*	69.10	C
120.00-100.00			B	0.543	1.85		0.8	1	42.453			
			C	0.543	1.85		0.8	1	42.453			
T13	9869.75	4459.95	A	0.536	1.857	7	0.8	1	41.637	1323.54*	66.18	C
100.00-80.00			B	0.536	1.857		0.8	1	41.637			
			C	0.536	1.857		0.8	1	41.637			
T14	9668.52	4374.10	A	0.528	1.867	6	0.8	1	40.649	1253.77*	62.69	C
80.00-60.00			B	0.528	1.867		0.8	1	40.649			
			C	0.528	1.867		0.8	1	40.649			
T15	9349.13	4264.80	A	0.517	1.879	6	0.8	1	39.385	1166.14*	58.31	C
60.00-40.00			B	0.517	1.879		0.8	1	39.385			
			C	0.517	1.879		0.8	1	39.385			
T16	8985.87	4110.38	A	0.501	1.899	5	0.8	1	37.583	1044.76*	52.24	C
40.00-20.00			B	0.501	1.899		0.8	1	37.583			
			C	0.501	1.899		0.8	1	37.583			
T17	3393.20	1852.75	A	0.544	1.849	5	0.8	1	16.864	365.09*	45.64	C
20.00-12.00			B	0.544	1.849		0.8	1	16.864			
			C	0.544	1.849		0.8	1	16.864			
T18	2151.57	1652.54	A	0.432	2.005	5	0.8	1	8.253	239.89*	44.98	C
12.00-6.67			B	0.432	2.005		0.8	1	8.253			
			C	0.432	2.005		0.8	1	8.253			
T19 6.67-0.00	2.47	2054.50	A	0.967	2.034	5	0.8	1	18.961	151.64	22.75	B
			B	0.967	2.034		0.8	1	18.961			
			C	0.967	2.034		0.8	1	18.961			
Sum Weight:	120493.72	79525.79			*2.1A_g limit					22075.87		

Tower Forces - With Ice - Wind 90 To Face

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft^2	F lb	w plf	Ctrl. Face
L1	539.17	1691.77	A	0.807	1.821	9	0.85	1	31.477	627.41	41.83	C
345.00-330.00			B	0.807	1.821		0.85	1	31.477			
			C	0.807	1.821		0.85	1	31.477			
T1	1552.97	2645.94	A	0.615	1.795	9	0.85	1	25.549	543.13	54.31	C
330.00-320.00			B	0.615	1.795		0.85	1	25.549			
			C	0.615	1.795		0.85	1	25.549			
T2	3411.34	4104.24	A	0.561	1.833	9	0.85	1	44.461	1118.42	55.92	C
320.00-300.00			B	0.561	1.833		0.85	1	44.461			
			C	0.561	1.833		0.85	1	44.461			
T3	4084.88	4076.71	A	0.559	1.835	9	0.85	1	44.146	1232.22	61.61	B
300.00-280.00			B	0.559	1.835		0.85	1	44.146			
			C	0.559	1.835		0.85	1	44.146			
T4	4575.69	4298.98	A	0.565	1.83	8	0.85	1	44.802	1316.21	65.81	B
280.00-260.00			B	0.565	1.83		0.85	1	44.802			
			C	0.565	1.83		0.85	1	44.802			
T5	4932.65	4267.42	A	0.562	1.833	8	0.85	1	44.442	1373.04	68.65	B
260.00-240.00			B	0.562	1.833		0.85	1	44.442			
			C	0.562	1.833		0.85	1	44.442			
T6	5253.94	4233.70	A	0.559	1.836	8	0.85	1	44.057	1411.24	70.56	B
240.00-220.00			B	0.559	1.836		0.85	1	44.057			
			C	0.559	1.836		0.85	1	44.057			
T7	5952.84	4524.25	A	0.562	1.833	8	0.85	1	44.601	1511.31	75.57	B
220.00-200.00			B	0.562	1.833		0.85	1	44.601			
			C	0.562	1.833		0.85	1	44.601			
T8	8247.16	5417.08	A	0.582	1.816	8	0.85	1	47.143	1555.05*	77.75	C
200.00-180.00			B	0.582	1.816		0.85	1	47.143			
			C	0.582	1.816		0.85	1	47.143			
T9	9277.15	5371.46	A	0.578	1.819	8	0.85	1	46.632	1518.15*	75.91	C
180.00-160.00		TA	B	0.578	1.819		0.85	1	46.632			
		2355.30	C	0.578	1.819		0.85	1	46.632			
T10	9622.03	4646.29	A	0.554	1.84	7	0.85	1	43.765	1477.69*	73.88	C
160.00-140.00			B	0.554	1.84		0.85	1	43.765			
			C	0.554	1.84		0.85	1	43.765			
T11	9738.24	4592.43	A	0.549	1.845	7	0.85	1	43.152	1432.76*	71.64	C
140.00-120.00			B	0.549	1.845		0.85	1	43.152			
			C	0.549	1.845		0.85	1	43.152			
T12	9885.17	4531.20	A	0.543	1.85	7	0.85	1	42.453	1382.06*	69.10	C
120.00-100.00			B	0.543	1.85		0.85	1	42.453			
			C	0.543	1.85		0.85	1	42.453			
T13	9869.75	4459.95	A	0.536	1.857	7	0.85	1	41.637	1323.54*	66.18	C
100.00-80.00			B	0.536	1.857		0.85	1	41.637			
			C	0.536	1.857		0.85	1	41.637			
T14	9668.52	4374.10	A	0.528	1.867	6	0.85	1	40.649	1253.77*	62.69	C
80.00-60.00			B	0.528	1.867		0.85	1	40.649			
			C	0.528	1.867		0.85	1	40.649			
T15	9349.13	4264.80	A	0.517	1.879	6	0.85	1	39.385	1166.14*	58.31	C
60.00-40.00			B	0.517	1.879		0.85	1	39.385			
			C	0.517	1.879		0.85	1	39.385			
T16	8985.87	4110.38	A	0.501	1.899	5	0.85	1	37.583	1044.76*	52.24	C
40.00-20.00			B	0.501	1.899		0.85	1	37.583			
			C	0.501	1.899		0.85	1	37.583			
T17	3393.20	1852.75	A	0.544	1.849	5	0.85	1	16.864	365.09*	45.64	C
20.00-12.00			B	0.544	1.849		0.85	1	16.864			
			C	0.544	1.849		0.85	1	16.864			
T18	2151.57	1652.54	A	0.432	2.005	5	0.85	1	8.284	239.89*	44.98	C
12.00-6.67			B	0.432	2.005		0.85	1	8.284			
			C	0.432	2.005		0.85	1	8.284			
T19 6.67-0.00	2.47	2054.50	A	0.967	2.034	5	0.85	1	18.987	151.84	22.78	C
			B	0.967	2.034		0.85	1	18.987			
			C	0.967	2.034		0.85	1	18.987			

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft^2	F lb	w plf	Ctrl. Face
Sum Weight:	120493.72	79525.79			*2.1A_g limit					22043.73		

Tower Forces - Service - Wind Normal To Face

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft^2	F lb	w plf	Ctrl. Face
L1	143.92	339.39	A	0.152	2.763	13	1	1	3.381	209.21	13.95	C
345.00-330.00			B	0.152	2.763		1	1	3.381			
			C	0.152	2.763		1	1	3.381			
T1	436.90	1038.20	A	0.161	2.73	13	1	1	4.899	321.91	32.19	C
330.00-320.00			B	0.161	2.73		1	1	4.899			
			C	0.161	2.73		1	1	4.899			
T2	896.51	1553.07	A	0.151	2.766	13	1	1	8.916	652.43	32.62	C
320.00-300.00			B	0.151	2.766		1	1	8.916			
			C	0.151	2.766		1	1	8.916			
T3	958.46	1553.07	A	0.151	2.766	12	1	1	8.916	731.64	36.58	C
300.00-280.00			B	0.151	2.766		1	1	8.916			
			C	0.151	2.766		1	1	8.916			
T4	991.43	1728.92	A	0.16	2.734	12	1	1	9.465	787.68	39.38	C
280.00-260.00			B	0.16	2.734		1	1	9.465			
			C	0.16	2.734		1	1	9.465			
T5	1015.58	1728.92	A	0.16	2.734	12	1	1	9.465	816.91	40.85	C
260.00-240.00			B	0.16	2.734		1	1	9.465			
			C	0.16	2.734		1	1	9.465			
T6	1057.58	1728.92	A	0.16	2.734	12	1	1	9.465	859.27	42.96	A
240.00-220.00			B	0.16	2.734		1	1	9.465			
			C	0.16	2.734		1	1	9.465			
T7	1143.29	1999.24	A	0.171	2.697	12	1	1	10.139	982.76	49.14	A
220.00-200.00			B	0.171	2.697		1	1	10.139			
			C	0.171	2.697		1	1	10.139			
T8	1426.44	2728.70	A	0.199	2.6	11	1	1	11.943	1283.13	64.16	A
200.00-180.00			B	0.199	2.6		1	1	11.943			
			C	0.199	2.6		1	1	11.943			
T9	1591.68	2728.70	A	0.199	2.6	11	1	1	11.943	1397.06	69.85	A
180.00-160.00		TA	B	0.199	2.6		1	1	11.943			
		1159.20	C	0.199	2.6		1	1	11.943			
T10	1696.59	2220.23	A	0.178	2.671	11	1	1	10.634	1391.28	69.56	A
160.00-140.00			B	0.178	2.671		1	1	10.634			
			C	0.178	2.671		1	1	10.634			
T11	1711.55	2220.23	A	0.178	2.671	10	1	1	10.634	1374.63	68.73	A
140.00-120.00			B	0.178	2.671		1	1	10.634			
			C	0.178	2.671		1	1	10.634			
T12	1732.02	2220.23	A	0.178	2.671	10	1	1	10.634	1355.90	67.79	A
120.00-100.00			B	0.178	2.671		1	1	10.634			
			C	0.178	2.671		1	1	10.634			
T13	1741.70	2220.23	A	0.178	2.671	10	1	1	10.634	1315.43	65.77	A
100.00-80.00			B	0.178	2.671		1	1	10.634			
			C	0.178	2.671		1	1	10.634			
T14	1743.20	2220.23	A	0.178	2.671	9	1	1	10.634	1250.60	62.53	A
80.00-60.00			B	0.178	2.671		1	1	10.634			
			C	0.178	2.671		1	1	10.634			

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft^2	F lb	w plf	Ctrl. Face
T15	1743.20	2220.23	A	0.178	2.671	9	1	1	10.634	1165.07	58.25	A
60.00-40.00			B	0.178	2.671		1	1	10.634			
			C	0.178	2.671		1	1	10.634			
T16	1748.00	2220.23	A	0.178	2.671	8	1	1	10.634	1053.70	52.68	A
40.00-20.00			B	0.178	2.671		1	1	10.634			
			C	0.178	2.671		1	1	10.634			
T17	699.68	1051.19	A	0.203	2.587	7	1	1	4.874	377.04	47.13	A
20.00-12.00			B	0.203	2.587		1	1	4.874			
			C	0.203	2.587		1	1	4.874			
T18	466.45	1011.04	A	0.168	2.705	7	1	1	2.943	245.78	46.08	A
12.00-6.67			B	0.168	2.705		1	1	2.943			
			C	0.168	2.705		1	1	2.943			
T19 6.67-0.00	0.59	1284.55	A	0.403	2.059	7	1	1	4.882	57.14	8.57	A
			B	0.403	2.059		1	1	4.882			
			C	0.403	2.059		1	1	4.882			
Sum Weight:	22944.77	37174.72								17628.55		

Tower Forces - Service - Wind 60 To Face

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft^2	F lb	w plf	Ctrl. Face
L1	143.92	339.39	A	0.152	2.763	13	0.8	1	3.381	209.21	13.95	C
345.00-330.00			B	0.152	2.763		0.8	1	3.381			
			C	0.152	2.763		0.8	1	3.381			
T1	436.90	1038.20	A	0.161	2.73	13	0.8	1	4.836	320.04	32.00	C
330.00-320.00			B	0.161	2.73		0.8	1	4.836			
			C	0.161	2.73		0.8	1	4.836			
T2	896.51	1553.07	A	0.151	2.766	13	0.8	1	8.916	652.43	32.62	C
320.00-300.00			B	0.151	2.766		0.8	1	8.916			
			C	0.151	2.766		0.8	1	8.916			
T3	958.46	1553.07	A	0.151	2.766	12	0.8	1	8.916	731.64	36.58	A
300.00-280.00			B	0.151	2.766		0.8	1	8.916			
			C	0.151	2.766		0.8	1	8.916			
T4	991.43	1728.92	A	0.16	2.734	12	0.8	1	9.465	787.68	39.38	A
280.00-260.00			B	0.16	2.734		0.8	1	9.465			
			C	0.16	2.734		0.8	1	9.465			
T5	1015.58	1728.92	A	0.16	2.734	12	0.8	1	9.465	816.91	40.85	A
260.00-240.00			B	0.16	2.734		0.8	1	9.465			
			C	0.16	2.734		0.8	1	9.465			
T6	1057.58	1728.92	A	0.16	2.734	12	0.8	1	9.465	859.27	42.96	B
240.00-220.00			B	0.16	2.734		0.8	1	9.465			
			C	0.16	2.734		0.8	1	9.465			
T7	1143.29	1999.24	A	0.171	2.697	12	0.8	1	10.139	982.76	49.14	B
220.00-200.00			B	0.171	2.697		0.8	1	10.139			
			C	0.171	2.697		0.8	1	10.139			
T8	1426.44	2728.70	A	0.199	2.6	11	0.8	1	11.943	1283.13	64.16	B
200.00-180.00			B	0.199	2.6		0.8	1	11.943			
			C	0.199	2.6		0.8	1	11.943			
T9	1591.68	2728.70	A	0.199	2.6	11	0.8	1	11.943	1397.06	69.85	B
180.00-160.00		TA	B	0.199	2.6		0.8	1	11.943			
		1159.20	C	0.199	2.6		0.8	1	11.943			
T10	1696.59	2220.23	A	0.178	2.671	11	0.8	1	10.634	1391.28	69.56	B

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft^2	F lb	w plf	Ctrl. Face
160.00-140.00			B	0.178	2.671		0.8	1	10.634			
			C	0.178	2.671		0.8	1	10.634			
T11	1711.55	2220.23	A	0.178	2.671	10	0.8	1	10.634	1374.63	68.73	B
140.00-120.00			B	0.178	2.671		0.8	1	10.634			
			C	0.178	2.671		0.8	1	10.634			
T12	1732.02	2220.23	A	0.178	2.671	10	0.8	1	10.634	1355.90	67.79	B
120.00-100.00			B	0.178	2.671		0.8	1	10.634			
			C	0.178	2.671		0.8	1	10.634			
T13	1741.70	2220.23	A	0.178	2.671	10	0.8	1	10.634	1315.43	65.77	B
100.00-80.00			B	0.178	2.671		0.8	1	10.634			
			C	0.178	2.671		0.8	1	10.634			
T14	1743.20	2220.23	A	0.178	2.671	9	0.8	1	10.634	1250.60	62.53	B
80.00-60.00			B	0.178	2.671		0.8	1	10.634			
			C	0.178	2.671		0.8	1	10.634			
T15	1743.20	2220.23	A	0.178	2.671	9	0.8	1	10.634	1165.07	58.25	B
60.00-40.00			B	0.178	2.671		0.8	1	10.634			
			C	0.178	2.671		0.8	1	10.634			
T16	1748.00	2220.23	A	0.178	2.671	8	0.8	1	10.634	1053.70	52.68	B
40.00-20.00			B	0.178	2.671		0.8	1	10.634			
			C	0.178	2.671		0.8	1	10.634			
T17	699.68	1051.19	A	0.203	2.587	7	0.8	1	4.874	377.04	47.13	B
20.00-12.00			B	0.203	2.587		0.8	1	4.874			
			C	0.203	2.587		0.8	1	4.874			
T18	466.45	1011.04	A	0.168	2.705	7	0.8	1	2.818	243.86	45.72	B
12.00-6.67			B	0.168	2.705		0.8	1	2.818			
			C	0.168	2.705		0.8	1	2.818			
T19 6.67-0.00	0.59	1284.55	A	0.403	2.059	7	0.8	1	4.779	55.94	8.39	B
			B	0.403	2.059		0.8	1	4.779			
			C	0.403	2.059		0.8	1	4.779			
Sum Weight:	22944.77	37174.72								17623.57		

Tower Forces - Service - Wind 90 To Face

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft^2	F lb	w plf	Ctrl. Face
L1	143.92	339.39	A	0.152	2.763	13	0.85	1	3.381	209.21	13.95	C
345.00-330.00			B	0.152	2.763		0.85	1	3.381			
			C	0.152	2.763		0.85	1	3.381			
T1	436.90	1038.20	A	0.161	2.73	13	0.85	1	4.851	320.51	32.05	C
330.00-320.00			B	0.161	2.73		0.85	1	4.851			
			C	0.161	2.73		0.85	1	4.851			
T2	896.51	1553.07	A	0.151	2.766	13	0.85	1	8.916	652.43	32.62	C
320.00-300.00			B	0.151	2.766		0.85	1	8.916			
			C	0.151	2.766		0.85	1	8.916			
T3	958.46	1553.07	A	0.151	2.766	12	0.85	1	8.916	731.64	36.58	B
300.00-280.00			B	0.151	2.766		0.85	1	8.916			
			C	0.151	2.766		0.85	1	8.916			
T4	991.43	1728.92	A	0.16	2.734	12	0.85	1	9.465	787.68	39.38	B
280.00-260.00			B	0.16	2.734		0.85	1	9.465			
			C	0.16	2.734		0.85	1	9.465			
T5	1015.58	1728.92	A	0.16	2.734	12	0.85	1	9.465	816.91	40.85	B
260.00-240.00			B	0.16	2.734		0.85	1	9.465			

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft^2	F lb	w plf	Ctrl. Face
			C	0.16	2.734		0.85	1	9.465			
T6	1057.58	1728.92	A	0.16	2.734	12	0.85	1	9.465	865.22	43.26	B
240.00-220.00			B	0.16	2.734		0.85	1	9.465			
			C	0.16	2.734		0.85	1	9.465			
T7	1143.29	1999.24	A	0.171	2.697	12	0.85	1	10.139	988.60	49.43	B
220.00-200.00			B	0.171	2.697		0.85	1	10.139			
			C	0.171	2.697		0.85	1	10.139			
T8	1426.44	2728.70	A	0.199	2.6	11	0.85	1	11.943	1317.50	65.88	C
200.00-180.00			B	0.199	2.6		0.85	1	11.943			
			C	0.199	2.6		0.85	1	11.943			
T9	1591.68	2728.70	A	0.199	2.6	11	0.85	1	11.943	1436.61	71.83	C
180.00-160.00		TA	B	0.199	2.6		0.85	1	11.943			
		1159.20	C	0.199	2.6		0.85	1	11.943			
T10	1696.59	2220.23	A	0.178	2.671	11	0.85	1	10.634	1436.23	71.81	C
160.00-140.00			B	0.178	2.671		0.85	1	10.634			
			C	0.178	2.671		0.85	1	10.634			
T11	1711.55	2220.23	A	0.178	2.671	10	0.85	1	10.634	1418.25	70.91	C
140.00-120.00			B	0.178	2.671		0.85	1	10.634			
			C	0.178	2.671		0.85	1	10.634			
T12	1732.02	2220.23	A	0.178	2.671	10	0.85	1	10.634	1398.01	69.90	C
120.00-100.00			B	0.178	2.671		0.85	1	10.634			
			C	0.178	2.671		0.85	1	10.634			
T13	1741.70	2220.23	A	0.178	2.671	10	0.85	1	10.634	1355.80	67.79	C
100.00-80.00			B	0.178	2.671		0.85	1	10.634			
			C	0.178	2.671		0.85	1	10.634			
T14	1743.20	2220.23	A	0.178	2.671	9	0.85	1	10.634	1288.89	64.44	C
80.00-60.00			B	0.178	2.671		0.85	1	10.634			
			C	0.178	2.671		0.85	1	10.634			
T15	1743.20	2220.23	A	0.178	2.671	9	0.85	1	10.634	1200.75	60.04	C
60.00-40.00			B	0.178	2.671		0.85	1	10.634			
			C	0.178	2.671		0.85	1	10.634			
T16	1748.00	2220.23	A	0.178	2.671	8	0.85	1	10.634	1083.26	54.16	C
40.00-20.00			B	0.178	2.671		0.85	1	10.634			
			C	0.178	2.671		0.85	1	10.634			
T17	699.68	1051.19	A	0.203	2.587	7	0.85	1	4.874	387.19	48.40	C
20.00-12.00			B	0.203	2.587		0.85	1	4.874			
			C	0.203	2.587		0.85	1	4.874			
T18	466.45	1011.04	A	0.168	2.705	7	0.85	1	2.849	251.02	47.07	C
12.00-6.67			B	0.168	2.705		0.85	1	2.849			
			C	0.168	2.705		0.85	1	2.849			
T19 6.67-0.00	0.59	1284.55	A	0.403	2.059	7	0.85	1	4.804	56.25	8.44	C
			B	0.403	2.059		0.85	1	4.804			
			C	0.403	2.059		0.85	1	4.804			
Sum Weight:	22944.77	37174.72								18001.96		

Force Totals (Does not include forces on guys)

Load Case	Vertical Forces lb	Sum of Forces X lb	Sum of Forces Z lb	Sum of Torques kip-ft
Leg Weight	18708.78			
Bracing Weight	18465.94			
Total Member Self-Weight	37174.72			

Load Case	Vertical Forces lb	Sum of Forces X lb	Sum of Forces Z lb	Sum of Torques kip-ft
Guy Weight	7568.93			
Total Weight	80378.37			
Wind 0 deg - No Ice		-87.15	-55132.57	-3.46
Wind 30 deg - No Ice		27247.18	-47102.07	-0.43
Wind 60 deg - No Ice		49077.73	-28181.62	2.35
Wind 90 deg - No Ice		57522.90	87.15	4.60
Wind 120 deg - No Ice		49393.45	28464.53	5.88
Wind 150 deg - No Ice		28192.22	48564.63	5.48
Wind 180 deg - No Ice		87.15	55121.11	3.46
Wind 210 deg - No Ice		-27247.18	47102.07	0.43
Wind 240 deg - No Ice		-49087.65	28187.35	-2.35
Wind 270 deg - No Ice		-57522.90	-87.15	-4.60
Wind 300 deg - No Ice		-49383.53	-28458.81	-5.88
Wind 330 deg - No Ice		-28192.22	-48564.63	-5.48
Member Ice	42351.07			
Guy Ice	28612.02			
Total Weight Ice	274687.31			
Wind 0 deg - Ice		-28.85	-31880.41	-2.65
Wind 30 deg - Ice		15901.12	-27510.84	0.09
Wind 60 deg - Ice		27484.73	-15817.28	2.80
Wind 90 deg - Ice		31750.93	28.85	4.75
Wind 120 deg - Ice		27595.52	15914.55	5.43
Wind 150 deg - Ice		15997.55	27620.18	4.67
Wind 180 deg - Ice		28.85	31878.74	2.65
Wind 210 deg - Ice		-15901.12	27510.84	-0.09
Wind 240 deg - Ice		-27486.18	15818.12	-2.80
Wind 270 deg - Ice		-31750.93	-28.85	-4.75
Wind 300 deg - Ice		-27594.07	-15913.71	-5.43
Wind 330 deg - Ice		-15997.55	-27620.18	-4.67
Total Weight	80378.37			
Wind 0 deg - Service		-37.89	-23967.79	-1.51
Wind 30 deg - Service		11845.17	-20476.69	-0.19
Wind 60 deg - Service		21335.57	-12251.40	1.02
Wind 90 deg - Service		25006.94	37.89	2.00
Wind 120 deg - Service		21472.82	12374.39	2.55
Wind 150 deg - Service		12256.01	21112.51	2.38
Wind 180 deg - Service		37.89	23962.81	1.51
Wind 210 deg - Service		-11845.17	20476.69	0.19
Wind 240 deg - Service		-21339.88	12253.89	-1.02
Wind 270 deg - Service		-25006.94	-37.89	-2.00
Wind 300 deg - Service		-21468.51	-12371.90	-2.55
Wind 330 deg - Service		-12256.01	-21112.51	-2.38

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.6 Wind 0 deg - No Ice+1.0 Guy
3	1.2D+1.6W (pattern 1) 0 deg - No Ice+1.0 Guy
4	1.2D+1.6W (pattern 2) 0 deg - No Ice+1.0 Guy
5	1.2D+1.6W (pattern 3) 0 deg - No Ice+1.0 Guy
6	1.2D+1.6W (pattern 4) 0 deg - No Ice+1.0 Guy
7	1.2D+1.6W (pattern 5) 0 deg - No Ice+1.0 Guy

Comb. No.	Description
8	1.2D+1.6W (pattern 6) 0 deg - No Ice+1.0 Guy
9	1.2 Dead+1.6 Wind 30 deg - No Ice+1.0 Guy
10	1.2D+1.6W (pattern 1) 30 deg - No Ice+1.0 Guy
11	1.2D+1.6W (pattern 2) 30 deg - No Ice+1.0 Guy
12	1.2D+1.6W (pattern 3) 30 deg - No Ice+1.0 Guy
13	1.2D+1.6W (pattern 4) 30 deg - No Ice+1.0 Guy
14	1.2D+1.6W (pattern 5) 30 deg - No Ice+1.0 Guy
15	1.2D+1.6W (pattern 6) 30 deg - No Ice+1.0 Guy
16	1.2 Dead+1.6 Wind 60 deg - No Ice+1.0 Guy
17	1.2D+1.6W (pattern 1) 60 deg - No Ice+1.0 Guy
18	1.2D+1.6W (pattern 2) 60 deg - No Ice+1.0 Guy
19	1.2D+1.6W (pattern 3) 60 deg - No Ice+1.0 Guy
20	1.2D+1.6W (pattern 4) 60 deg - No Ice+1.0 Guy
21	1.2D+1.6W (pattern 5) 60 deg - No Ice+1.0 Guy
22	1.2D+1.6W (pattern 6) 60 deg - No Ice+1.0 Guy
23	1.2 Dead+1.6 Wind 90 deg - No Ice+1.0 Guy
24	1.2D+1.6W (pattern 1) 90 deg - No Ice+1.0 Guy
25	1.2D+1.6W (pattern 2) 90 deg - No Ice+1.0 Guy
26	1.2D+1.6W (pattern 3) 90 deg - No Ice+1.0 Guy
27	1.2D+1.6W (pattern 4) 90 deg - No Ice+1.0 Guy
28	1.2D+1.6W (pattern 5) 90 deg - No Ice+1.0 Guy
29	1.2D+1.6W (pattern 6) 90 deg - No Ice+1.0 Guy
30	1.2 Dead+1.6 Wind 120 deg - No Ice+1.0 Guy
31	1.2D+1.6W (pattern 1) 120 deg - No Ice+1.0 Guy
32	1.2D+1.6W (pattern 2) 120 deg - No Ice+1.0 Guy
33	1.2D+1.6W (pattern 3) 120 deg - No Ice+1.0 Guy
34	1.2D+1.6W (pattern 4) 120 deg - No Ice+1.0 Guy
35	1.2D+1.6W (pattern 5) 120 deg - No Ice+1.0 Guy
36	1.2D+1.6W (pattern 6) 120 deg - No Ice+1.0 Guy
37	1.2 Dead+1.6 Wind 150 deg - No Ice+1.0 Guy
38	1.2D+1.6W (pattern 1) 150 deg - No Ice+1.0 Guy
39	1.2D+1.6W (pattern 2) 150 deg - No Ice+1.0 Guy
40	1.2D+1.6W (pattern 3) 150 deg - No Ice+1.0 Guy
41	1.2D+1.6W (pattern 4) 150 deg - No Ice+1.0 Guy
42	1.2D+1.6W (pattern 5) 150 deg - No Ice+1.0 Guy
43	1.2D+1.6W (pattern 6) 150 deg - No Ice+1.0 Guy
44	1.2 Dead+1.6 Wind 180 deg - No Ice+1.0 Guy
45	1.2D+1.6W (pattern 1) 180 deg - No Ice+1.0 Guy
46	1.2D+1.6W (pattern 2) 180 deg - No Ice+1.0 Guy
47	1.2D+1.6W (pattern 3) 180 deg - No Ice+1.0 Guy
48	1.2D+1.6W (pattern 4) 180 deg - No Ice+1.0 Guy
49	1.2D+1.6W (pattern 5) 180 deg - No Ice+1.0 Guy
50	1.2D+1.6W (pattern 6) 180 deg - No Ice+1.0 Guy
51	1.2 Dead+1.6 Wind 210 deg - No Ice+1.0 Guy
52	1.2D+1.6W (pattern 1) 210 deg - No Ice+1.0 Guy
53	1.2D+1.6W (pattern 2) 210 deg - No Ice+1.0 Guy
54	1.2D+1.6W (pattern 3) 210 deg - No Ice+1.0 Guy
55	1.2D+1.6W (pattern 4) 210 deg - No Ice+1.0 Guy
56	1.2D+1.6W (pattern 5) 210 deg - No Ice+1.0 Guy
57	1.2D+1.6W (pattern 6) 210 deg - No Ice+1.0 Guy
58	1.2 Dead+1.6 Wind 240 deg - No Ice+1.0 Guy
59	1.2D+1.6W (pattern 1) 240 deg - No Ice+1.0 Guy
60	1.2D+1.6W (pattern 2) 240 deg - No Ice+1.0 Guy
61	1.2D+1.6W (pattern 3) 240 deg - No Ice+1.0 Guy
62	1.2D+1.6W (pattern 4) 240 deg - No Ice+1.0 Guy
63	1.2D+1.6W (pattern 5) 240 deg - No Ice+1.0 Guy
64	1.2D+1.6W (pattern 6) 240 deg - No Ice+1.0 Guy
65	1.2 Dead+1.6 Wind 270 deg - No Ice+1.0 Guy
66	1.2D+1.6W (pattern 1) 270 deg - No Ice+1.0 Guy
67	1.2D+1.6W (pattern 2) 270 deg - No Ice+1.0 Guy
68	1.2D+1.6W (pattern 3) 270 deg - No Ice+1.0 Guy
69	1.2D+1.6W (pattern 4) 270 deg - No Ice+1.0 Guy

Comb. No.	Description
70	1.2D+1.6W (pattern 5) 270 deg - No Ice+1.0 Guy
71	1.2D+1.6W (pattern 6) 270 deg - No Ice+1.0 Guy
72	1.2 Dead+1.6 Wind 300 deg - No Ice+1.0 Guy
73	1.2D+1.6W (pattern 1) 300 deg - No Ice+1.0 Guy
74	1.2D+1.6W (pattern 2) 300 deg - No Ice+1.0 Guy
75	1.2D+1.6W (pattern 3) 300 deg - No Ice+1.0 Guy
76	1.2D+1.6W (pattern 4) 300 deg - No Ice+1.0 Guy
77	1.2D+1.6W (pattern 5) 300 deg - No Ice+1.0 Guy
78	1.2D+1.6W (pattern 6) 300 deg - No Ice+1.0 Guy
79	1.2 Dead+1.6 Wind 330 deg - No Ice+1.0 Guy
80	1.2D+1.6W (pattern 1) 330 deg - No Ice+1.0 Guy
81	1.2D+1.6W (pattern 2) 330 deg - No Ice+1.0 Guy
82	1.2D+1.6W (pattern 3) 330 deg - No Ice+1.0 Guy
83	1.2D+1.6W (pattern 4) 330 deg - No Ice+1.0 Guy
84	1.2D+1.6W (pattern 5) 330 deg - No Ice+1.0 Guy
85	1.2D+1.6W (pattern 6) 330 deg - No Ice+1.0 Guy
86	1.2 Dead+1.0 Ice+1.0 Temp+Guy
87	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp+1.0 Guy
88	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp+1.0 Guy
89	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp+1.0 Guy
90	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp+1.0 Guy
91	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp+1.0 Guy
92	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp+1.0 Guy
93	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp+1.0 Guy
94	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp+1.0 Guy
95	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp+1.0 Guy
96	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp+1.0 Guy
97	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp+1.0 Guy
98	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp+1.0 Guy
99	Dead+Wind 0 deg - Service+Guy
100	Dead+Wind 30 deg - Service+Guy
101	Dead+Wind 60 deg - Service+Guy
102	Dead+Wind 90 deg - Service+Guy
103	Dead+Wind 120 deg - Service+Guy
104	Dead+Wind 150 deg - Service+Guy
105	Dead+Wind 180 deg - Service+Guy
106	Dead+Wind 210 deg - Service+Guy
107	Dead+Wind 240 deg - Service+Guy
108	Dead+Wind 270 deg - Service+Guy
109	Dead+Wind 300 deg - Service+Guy
110	Dead+Wind 330 deg - Service+Guy

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	345 - 330	Latticed Pole Leg	Max Tension	47	6412.17	0.01	0.08
			Max. Compression	33	-7025.09	0.00	0.00
			Max. Mx	61	-6237.90	-0.08	0.03
			Max. My	5	48.49	-0.01	-0.09
			Max. Vy	61	-948.42	0.00	0.00
			Max. Vx	5	-974.43	0.00	0.00
		Latticed Pole Diagonal	Max Tension	68	1037.75	0.00	0.00
			Max. Compression	68	-1038.26	0.00	0.00
			Max. Mx	91	131.31	-0.00	0.00
			Max. My	66	-1033.94	-0.00	-0.00
			Max. Vy	92	5.24	-0.00	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vx	65	0.18	-0.00	-0.00
		Latticed Pole K-Brace	Max Tension	26	2.53	0.00	0.00
			Max. Compression	96	-24.84	0.00	0.00
			Max. Mx	97	-8.10	0.00	0.00
			Max. My	97	-12.00	0.00	0.00
			Max. Vy	97	-4.00	0.00	0.00
			Max. Vx	97	0.04	0.00	0.00
		Latticed Pole Top Girt	Max Tension	33	3.42	-0.00	0.00
			Max. Compression	75	-3.34	-0.00	-0.00
			Max. Mx	91	1.00	-0.00	0.00
			Max. My	98	-1.99	-0.00	-0.00
			Max. Vy	91	6.24	-0.00	0.00
			Max. Vx	98	0.04	0.00	0.00
		Latticed Pole Mid Girt	Max Tension	93	111.60	0.00	0.00
			Max. Compression	35	-61.52	0.00	0.00
			Max. Mx	90	81.63	0.01	0.00
			Max. My	97	67.57	0.00	0.00
			Max. Vy	90	10.01	0.00	0.00
			Max. Vx	97	0.00	0.00	0.00
T1	330 - 320	Leg	Max Tension	8	4788.09	-0.02	0.29
			Max. Compression	78	-24296.89	-0.16	-0.09
			Max. Mx	71	3357.46	0.26	-0.06
			Max. My	8	4788.09	-0.02	0.29
			Max. Vy	71	1375.47	0.26	-0.06
			Max. Vx	8	1564.56	-0.02	0.29
		Diagonal	Max Tension	57	1643.16	0.00	0.00
			Max. Compression	57	-1674.82	0.00	0.00
			Max. Mx	97	425.73	-0.01	-0.00
			Max. My	47	-1280.37	-0.00	-0.00
			Max. Vy	97	14.26	-0.01	0.00
			Max. Vx	98	0.10	0.00	0.00
		Top Girt	Max Tension	61	0.27	0.00	0.00
			Max. Compression	61	-0.27	0.00	0.00
			Max. Mx	95	0.01	0.12	0.00
			Max. My	33	0.25	0.00	-0.00
			Max. Vy	95	93.92	0.00	0.00
			Max. Vx	33	0.00	0.00	0.00
		Bottom Girt	Max Tension	64	301.61	0.00	0.00
			Max. Compression	78	-210.72	0.00	0.00
			Max. Mx	95	-8.10	0.03	0.00
			Max. My	33	-52.51	0.00	-0.00
			Max. Vy	95	-25.04	0.00	0.00
			Max. Vx	33	0.00	0.00	0.00
		Mid Girt	Max Tension	95	183.27	0.00	0.00
			Max. Compression	78	-60.36	0.00	0.00
			Max. Mx	95	183.27	0.03	0.00
			Max. My	33	5.32	0.00	-0.00
			Max. Vy	95	-25.04	0.00	0.00
			Max. Vx	33	0.00	0.00	0.00
		Guy A	Bottom Tension	46	18435.27		
			Top Tension	46	18744.18		
			Top Cable Vert	46	16077.39		
			Top Cable Norm	46	9636.49		
			Top Cable Tan	46	0.13		
			Bot Cable Vert	46	-15371.44		
			Bot Cable Norm	46	10177.34		
			Bot Cable Tan	46	0.13		
		Guy B	Bottom Tension	67	19612.80		

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Top Tension	67	19968.90		
			Top Cable Vert	67	17639.17		
			Top Cable Norm	67	9359.18		
			Top Cable Tan	67	149.58		
			Bot Cable Vert	67	-16905.18		
			Bot Cable Norm	67	9939.51		
			Bot Cable Tan	67	288.21		
		Guy C	Bottom Tension	25	18349.11		
			Top Tension	25	18666.63		
			Top Cable Vert	25	16027.90		
			Top Cable Norm	25	9567.14		
			Top Cable Tan	25	139.82		
			Bot Cable Vert	25	-15335.50		
			Bot Cable Norm	25	10071.86		
			Bot Cable Tan	25	264.27		
T2	320 - 300	Leg	Max Tension	8	9647.88	-0.03	0.03
			Max. Compression	78	-29366.85	0.11	0.01
			Max. Mx	80	-12961.40	0.32	0.11
			Max. My	41	-12839.94	0.06	-0.34
			Max. Vy	34	2176.02	-0.30	-0.05
			Max. Vx	41	2217.82	0.06	-0.34
		Diagonal	Max Tension	76	2207.55	0.00	0.00
			Max. Compression	76	-2355.95	0.00	0.00
			Max. Mx	91	421.29	-0.01	0.00
			Max. My	76	-2335.69	-0.00	-0.00
			Max. Vy	91	14.37	-0.01	0.00
			Max. Vx	76	0.79	-0.00	-0.00
		Top Girt	Max Tension	50	229.14	0.00	0.00
			Max. Compression	64	-193.80	0.00	0.00
			Max. Mx	95	67.40	0.03	0.00
			Max. My	33	107.61	0.00	-0.00
			Max. Vy	95	24.91	0.00	0.00
			Max. Vx	33	0.00	0.00	0.00
		Bottom Girt	Max Tension	76	31.95	0.00	0.00
			Max. Compression	34	-810.58	0.00	0.00
			Max. Mx	88	-429.37	0.03	0.00
			Max. My	33	-255.40	0.00	-0.00
			Max. Vy	88	24.91	0.00	0.00
			Max. Vx	33	0.00	0.00	0.00
		Mid Girt	Max Tension	7	117.13	0.00	0.00
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	94	70.79	0.03	0.00
			Max. My	33	47.31	0.00	-0.00
			Max. Vy	94	24.91	0.00	0.00
			Max. Vx	33	0.00	0.00	0.00
T3	300 - 280	Leg	Max Tension	8	7074.46	-0.09	0.23
			Max. Compression	78	-40545.01	-0.13	-0.07
			Max. Mx	25	-35391.80	0.55	0.06
			Max. My	41	-12842.07	0.05	-0.52
			Max. Vy	75	-2757.43	0.28	-0.06
			Max. Vx	41	2228.39	0.05	-0.52
		Diagonal	Max Tension	41	4313.06	0.00	0.00
			Max. Compression	75	-3639.87	0.00	0.00
			Max. Mx	91	1616.92	-0.01	0.00
			Max. My	75	-3619.55	-0.00	-0.00
			Max. Vy	91	15.58	-0.01	0.00
			Max. Vx	75	1.42	-0.00	-0.00
		Top Girt	Max Tension	1	0.00	0.00	0.00
			Max. Compression	94	-1042.08	0.00	0.00
			Max. Mx	88	-900.83	0.03	0.00
			Max. My	33	-857.96	0.00	-0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vy	88	-24.73	0.00	0.00
			Max. Vx	33	0.00	0.00	0.00
		Bottom Girt	Max Tension	47	390.71	0.00	0.00
			Max. Compression	33	-109.18	0.00	0.00
			Max. Mx	86	170.28	0.03	0.00
			Max. My	82	110.43	0.00	-0.00
			Max. Vy	86	-24.73	0.00	0.00
			Max. Vx	82	0.00	0.00	0.00
		Mid Girt	Max Tension	1	0.00	0.00	0.00
			Max. Compression	33	-179.12	0.00	0.00
			Max. Mx	86	-92.90	0.03	0.00
			Max. My	33	-124.55	0.00	-0.00
			Max. Vy	86	-24.73	0.00	0.00
			Max. Vx	33	0.00	0.00	0.00
		Guy A	Bottom Tension	46	13111.72		
			Top Tension	46	13296.17		
			Top Cable Vert	46	11042.86		
			Top Cable Norm	46	7405.63		
			Top Cable Tan	46	0.05		
			Bot Cable Vert	46	-10561.96		
			Bot Cable Norm	46	7769.31		
			Bot Cable Tan	46	0.05		
		Guy B	Bottom Tension	66	13868.85		
			Top Tension	66	14084.60		
			Top Cable Vert	66	12163.47		
			Top Cable Norm	66	7100.25		
			Top Cable Tan	66	111.64		
			Bot Cable Vert	66	-11660.40		
			Bot Cable Norm	66	7505.77		
			Bot Cable Tan	66	209.02		
		Guy C	Bottom Tension	18	13063.90		
			Top Tension	18	13254.89		
			Top Cable Vert	18	11047.45		
			Top Cable Norm	18	7324.33		
			Top Cable Tan	18	3.24		
			Bot Cable Vert	18	-10552.94		
			Bot Cable Norm	18	7700.70		
			Bot Cable Tan	18	3.24		
T4	280 - 260	Leg	Max Tension	7	182.85	0.10	0.37
			Max. Compression	85	-61577.78	-0.15	-0.29
			Max. Mx	75	-22171.74	0.51	-0.08
			Max. My	41	-12992.97	-0.14	-0.49
			Max. Vy	75	-2748.71	0.51	-0.08
			Max. Vx	48	-2690.73	-0.17	-0.43
		Diagonal	Max Tension	41	4404.10	0.00	0.00
			Max. Compression	41	-4212.84	0.00	0.00
			Max. Mx	91	1120.34	-0.01	0.00
			Max. My	75	-4054.00	-0.00	-0.00
			Max. Vy	91	16.84	-0.01	0.00
			Max. Vx	75	1.52	-0.00	-0.00
		Top Girt	Max Tension	5	570.79	0.00	0.00
			Max. Compression	75	-223.56	0.00	0.00
			Max. Mx	86	168.16	0.03	0.00
			Max. My	82	192.57	0.00	-0.00
			Max. Vy	86	-24.53	0.00	0.00
			Max. Vx	82	0.00	0.00	0.00
		Bottom Girt	Max Tension	7	714.74	0.00	0.00
			Max. Compression	76	-255.16	0.00	0.00
			Max. Mx	90	117.97	0.03	0.00
			Max. My	82	253.20	0.00	-0.00
			Max. Vy	90	-24.53	0.00	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vx	82	0.00	0.00	0.00
		Mid Girt	Max Tension	31	6671.93	0.00	0.00
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	86	3386.56	0.03	0.00
			Max. My	82	3670.46	0.00	-0.00
			Max. Vy	86	-24.53	0.00	0.00
			Max. Vx	82	0.00	0.00	0.00
		Guy A	Bottom Tension	45	28191.70		
			Top Tension	45	28543.47		
			Top Cable Vert	45	22784.72		
			Top Cable Norm	45	17192.62		
			Top Cable Tan	45	0.51		
			Bot Cable Vert	45	-22002.25		
			Bot Cable Norm	45	17625.91		
			Bot Cable Tan	45	0.51		
		Guy B	Bottom Tension	66	29656.75		
			Top Tension	66	30075.70		
			Top Cable Vert	66	25255.44		
			Top Cable Norm	66	16330.92		
			Top Cable Tan	66	107.98		
			Bot Cable Vert	66	-24413.44		
			Bot Cable Norm	66	16834.80		
			Bot Cable Tan	66	310.60		
		Guy C	Bottom Tension	17	28138.74		
			Top Tension	17	28504.30		
			Top Cable Vert	17	22872.18		
			Top Cable Norm	17	17010.54		
			Top Cable Tan	17	6.09		
			Bot Cable Vert	17	-22065.14		
			Bot Cable Norm	17	17461.91		
			Bot Cable Tan	17	6.09		
T5	260 - 240	Leg	Max Tension	7	9304.08	-0.01	-0.09
			Max. Compression	77	-72795.48	-0.05	-0.14
			Max. Mx	20	-54100.38	0.44	-0.31
			Max. My	48	-50650.66	0.17	0.55
			Max. Vy	73	2294.40	-0.21	-0.06
			Max. Vx	48	-2687.41	0.09	0.32
		Diagonal	Max Tension	41	3496.27	0.00	0.00
			Max. Compression	41	-3713.41	0.00	0.00
			Max. Mx	98	-754.06	-0.01	-0.00
			Max. My	85	-3503.48	-0.00	-0.00
			Max. Vy	88	16.96	-0.01	0.00
			Max. Vx	85	1.29	-0.00	-0.00
		Top Girt	Max Tension	48	471.98	0.00	0.00
			Max. Compression	62	-38.44	0.00	0.00
			Max. Mx	87	249.53	0.03	0.00
			Max. My	82	166.09	0.00	-0.00
			Max. Vy	87	24.33	0.00	0.00
			Max. Vx	82	0.00	0.00	0.00
		Bottom Girt	Max Tension	6	309.76	0.00	0.00
			Max. Compression	48	-62.74	0.00	0.00
			Max. Mx	89	157.72	0.03	0.00
			Max. My	81	164.77	0.00	-0.00
			Max. Vy	89	24.33	0.00	0.00
			Max. Vx	81	0.00	0.00	0.00
		Mid Girt	Max Tension	7	630.26	0.00	0.00
			Max. Compression	77	-137.65	0.00	0.00
			Max. Mx	89	192.07	0.03	0.00
			Max. My	81	250.50	0.00	-0.00
			Max. Vy	89	24.33	0.00	0.00
			Max. Vx	81	0.00	0.00	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
T6	240 - 220	Leg	Max Tension	7	9156.64	-0.02	0.02
			Max. Compression	77	-72796.22	-0.01	-0.20
			Max. Mx	67	-60177.12	-0.55	0.02
			Max. My	50	-16240.99	0.03	0.49
			Max. Vy	32	3316.02	-0.49	-0.09
			Max. Vx	4	-3142.05	-0.07	0.47
		Diagonal	Max Tension	67	3816.82	0.00	0.00
			Max. Compression	67	-4105.97	0.00	0.00
			Max. Mx	87	46.70	-0.01	-0.00
			Max. My	74	-3919.90	-0.01	-0.00
			Max. Vy	87	16.95	-0.01	-0.00
			Max. Vx	74	1.26	-0.01	-0.00
		Top Girt	Max Tension	8	325.94	0.00	0.00
			Max. Compression	78	-38.13	0.00	0.00
			Max. Mx	89	93.91	0.03	0.00
			Max. My	81	118.82	0.00	-0.00
			Max. Vy	89	-24.11	0.00	0.00
			Max. Vx	81	0.00	0.00	0.00
		Bottom Girt	Max Tension	74	424.18	0.00	0.00
			Max. Compression	33	-202.17	0.00	0.00
			Max. Mx	91	83.10	0.03	0.00
			Max. My	81	142.58	0.00	-0.00
			Max. Vy	91	-24.11	0.00	0.00
			Max. Vx	81	0.00	0.00	0.00
		Mid Girt	Max Tension	87	437.85	0.00	0.00
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	89	305.25	0.03	0.00
			Max. My	81	260.06	0.00	-0.00
			Max. Vy	89	-24.11	0.00	0.00
			Max. Vx	81	0.00	0.00	0.00
T7	220 - 200	Leg	Max Tension	1	0.00	0.00	0.00
			Max. Compression	33	-72104.18	-0.90	-0.22
			Max. Mx	32	-61828.87	-1.02	-0.31
			Max. My	4	-60126.97	-0.12	1.05
			Max. Vy	32	5144.43	-1.02	-0.31
			Max. Vx	4	-5274.88	-0.12	1.05
		Diagonal	Max Tension	67	5736.18	0.00	0.00
			Max. Compression	67	-6044.83	0.00	0.00
			Max. Mx	98	1396.71	-0.01	-0.00
			Max. My	73	-5505.89	-0.01	-0.00
			Max. Vy	98	16.42	-0.01	-0.00
			Max. Vx	73	1.41	-0.01	-0.00
		Top Girt	Max Tension	8	878.05	0.00	0.00
			Max. Compression	77	-501.23	0.00	0.00
			Max. Mx	91	561.89	0.04	0.00
			Max. My	81	182.93	0.00	-0.00
			Max. Vy	91	-30.00	0.00	0.00
			Max. Vx	81	0.00	0.00	0.00
		Bottom Girt	Max Tension	74	1071.04	0.00	0.00
			Max. Compression	4	-808.03	0.00	0.00
			Max. Mx	86	243.43	0.04	0.00
			Max. My	81	192.99	0.00	-0.00
			Max. Vy	86	-30.00	0.00	0.00
			Max. Vx	81	0.00	0.00	0.00
		Mid Girt	Max Tension	87	559.37	0.00	0.00
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	86	452.65	0.04	0.00
			Max. My	81	335.55	0.00	-0.00
			Max. Vy	86	-30.00	0.00	0.00
			Max. Vx	81	0.00	0.00	0.00
T8	200 - 180	Leg	Max Tension	74	59220.31	-1.15	-0.36

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Compression	60	-146809.79	1.22	-0.59
			Max. Mx	70	-40302.90	1.63	0.19
			Max. My	43	-36778.83	-0.87	-1.87
			Max. Vy	67	-7911.74	1.57	0.34
			Max. Vx	50	8775.89	-0.24	-1.84
		Diagonal	Max Tension	67	9906.28	0.00	0.00
			Max. Compression	67	-10309.73	0.00	0.00
			Max. Mx	96	3590.49	-0.02	-0.00
			Max. My	73	-9296.93	-0.00	-0.01
			Max. Vy	96	22.58	-0.02	-0.00
			Max. Vx	73	2.72	-0.00	-0.01
		Top Girt	Max Tension	8	1644.44	0.00	0.00
			Max. Compression	77	-1186.36	0.00	0.00
			Max. Mx	86	320.25	0.05	0.00
			Max. My	81	218.05	0.00	-0.00
			Max. Vy	86	-36.88	0.00	0.00
			Max. Vx	81	0.00	0.00	0.00
		Bottom Girt	Max Tension	78	5943.93	0.00	0.00
			Max. Compression	8	-6047.44	0.00	0.00
			Max. Mx	86	194.31	0.05	0.00
			Max. My	81	24.91	0.00	-0.00
			Max. Vy	86	-36.88	0.00	0.00
			Max. Vx	81	0.00	0.00	0.00
		Mid Girt	Max Tension	75	898.40	0.00	0.00
			Max. Compression	33	-183.27	0.00	0.00
			Max. Mx	86	626.74	0.05	0.00
			Max. My	81	429.35	0.00	-0.00
			Max. Vy	86	-36.88	0.00	0.00
			Max. Vx	81	0.00	0.00	0.00
T9	180 - 160	Leg	Max Tension	74	59214.87	0.94	0.22
			Max. Compression	60	-166757.09	0.20	-0.24
			Max. Mx	70	-56812.17	2.26	0.23
			Max. My	43	-36785.36	-1.25	-2.60
			Max. Vy	67	-7867.52	2.23	0.47
			Max. Vx	50	8740.03	-0.33	-2.56
		Diagonal	Max Tension	5	7041.64	0.00	0.00
			Max. Compression	82	-7299.90	0.00	0.00
			Max. Mx	96	-1162.92	-0.02	-0.00
			Max. My	40	-5970.76	-0.01	0.01
			Max. Vy	96	23.64	-0.02	-0.00
			Max. Vx	40	-2.56	-0.01	0.01
		Top Girt	Max Tension	78	7458.83	0.00	0.00
			Max. Compression	2	-9397.66	0.00	0.00
			Max. Mx	86	-595.69	0.05	0.00
			Max. My	81	-1252.29	0.00	-0.00
			Max. Vy	86	-36.58	0.00	0.00
			Max. Vx	81	0.00	0.00	0.00
		Bottom Girt	Max Tension	5	1073.72	0.00	0.00
			Max. Compression	19	-229.92	0.00	0.00
			Max. Mx	86	559.45	0.05	0.00
			Max. My	81	400.42	0.00	-0.00
			Max. Vy	86	-36.58	0.00	0.00
			Max. Vx	81	0.00	0.00	0.00
		Mid Girt	Max Tension	53	1668.68	0.00	0.00
			Max. Compression	32	-42.72	0.00	0.00
			Max. Mx	86	1085.70	0.05	0.00
			Max. My	81	991.40	0.00	-0.00
			Max. Vy	86	-36.58	0.00	0.00
			Max. Vx	81	0.00	0.00	0.00
		Guy A	Bottom Tension	43	32771.50		
			Top Tension	43	33069.69		

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Top Cable Vert	43	21193.60		
			Top Cable Norm	43	25385.64		
			Top Cable Tan	43	72.56		
			Bot Cable Vert	43	-20488.97		
			Bot Cable Norm	43	25575.91		
			Bot Cable Tan	43	213.37		
		Guy B	Bottom Tension	85	36173.94		
			Top Tension	85	36563.70		
			Top Cable Vert	85	26650.02		
			Top Cable Norm	85	25033.46		
			Top Cable Tan	85	79.24		
			Bot Cable Vert	85	-25833.89		
			Bot Cable Norm	85	25319.97		
			Bot Cable Tan	85	251.66		
		Guy C	Bottom Tension	29	32679.18		
			Top Tension	29	32995.72		
			Top Cable Vert	29	21583.60		
			Top Cable Norm	29	24957.18		
			Top Cable Tan	29	69.31		
			Bot Cable Vert	29	-20848.05		
			Bot Cable Norm	29	25164.38		
			Bot Cable Tan	29	203.18		
		Torque Arm Top	Max Tension	58	28448.54	0.00	0.00
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	97	17796.55	0.11	0.00
			Max. My	74	14498.82	0.00	-0.00
			Max. Vy	97	-92.42	0.00	0.00
			Max. Vx	74	0.30	0.00	0.00
		Torque Arm Bottom	Max Tension	37	6838.52	0.00	0.00
			Max. Compression	79	-22074.42	0.00	0.00
			Max. Mx	96	-6428.20	0.11	0.00
			Max. My	81	2679.60	0.00	0.00
			Max. Vy	96	-92.37	0.00	0.00
			Max. Vx	81	-0.22	0.00	0.00
T10	160 - 140	Leg	Max Tension	1	0.00	0.00	0.00
			Max. Compression	60	-124536.10	-0.48	0.33
			Max. Mx	68	-38876.08	-0.84	-0.28
			Max. My	47	-27769.85	0.11	0.91
			Max. Vy	61	3766.87	-0.30	0.18
			Max. Vx	5	4381.72	-0.07	-0.35
		Diagonal	Max Tension	82	4415.26	0.00	0.00
			Max. Compression	82	-4961.83	0.00	0.00
			Max. Mx	97	-580.02	-0.01	-0.00
			Max. My	82	-4940.60	-0.00	-0.00
			Max. Vy	96	16.45	-0.01	0.00
			Max. Vx	82	0.73	-0.00	-0.00
		Top Girt	Max Tension	44	1075.12	0.00	0.00
			Max. Compression	33	-604.08	0.00	0.00
			Max. Mx	86	414.93	0.04	0.00
			Max. My	81	339.46	0.00	-0.00
			Max. Vy	86	-29.12	0.00	0.00
			Max. Vx	81	0.00	0.00	0.00
		Bottom Girt	Max Tension	5	670.95	0.00	0.00
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	86	459.60	0.04	0.00
			Max. My	81	327.50	0.00	-0.00
			Max. Vy	86	-29.12	0.00	0.00
			Max. Vx	81	0.00	0.00	0.00
		Mid Girt	Max Tension	97	988.53	0.00	0.00
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	86	854.99	0.04	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. My	81	641.90	0.00	-0.00
			Max. Vy	86	-29.12	0.00	0.00
			Max. Vx	81	0.00	0.00	0.00
T11	140 - 120	Leg	Max Tension	1	0.00	0.00	0.00
			Max. Compression	96	-115068.25	0.27	-0.14
			Max. Mx	69	-66718.18	-0.50	-0.08
			Max. My	44	-50867.53	0.11	0.49
			Max. Vy	61	1762.05	-0.10	0.06
			Max. Vx	5	2006.30	-0.07	-0.11
		Diagonal	Max Tension	82	1978.11	0.00	0.00
			Max. Compression	82	-2530.24	0.00	0.00
			Max. Mx	96	-445.23	-0.01	-0.00
			Max. My	82	-2507.02	-0.00	-0.00
			Max. Vy	96	16.28	-0.01	-0.00
			Max. Vx	82	0.44	-0.00	-0.00
		Top Girt	Max Tension	97	638.33	0.00	0.00
			Max. Compression	32	-43.90	0.00	0.00
			Max. Mx	86	467.89	0.04	0.00
			Max. My	81	358.73	0.00	-0.00
			Max. Vy	86	28.76	0.00	0.00
			Max. Vx	81	0.00	0.00	0.00
		Bottom Girt	Max Tension	80	591.60	0.00	0.00
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	86	479.90	0.04	0.00
			Max. My	81	332.37	0.00	-0.00
			Max. Vy	86	28.76	0.00	0.00
			Max. Vx	81	0.00	0.00	0.00
		Mid Girt	Max Tension	87	945.55	0.00	0.00
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	86	895.49	0.04	0.00
			Max. My	81	650.13	0.00	-0.00
			Max. Vy	86	28.76	0.00	0.00
			Max. Vx	81	0.00	0.00	0.00
T12	120 - 100	Leg	Max Tension	1	0.00	0.00	0.00
			Max. Compression	87	-127739.03	-0.01	0.01
			Max. Mx	69	-41876.11	1.24	0.51
			Max. My	48	-29274.61	0.01	-1.36
			Max. Vy	69	-6612.04	1.24	0.51
			Max. Vx	47	7161.67	0.01	-1.35
		Diagonal	Max Tension	69	3588.07	0.00	0.00
			Max. Compression	66	-4153.71	0.00	0.00
			Max. Mx	98	-50.82	-0.01	-0.00
			Max. My	66	-2424.49	0.00	-0.00
			Max. Vy	98	16.03	-0.01	-0.00
			Max. Vx	66	-0.38	0.00	-0.00
		Top Girt	Max Tension	6	552.89	0.00	0.00
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	86	488.13	0.04	0.00
			Max. My	81	360.08	0.00	-0.00
			Max. Vy	86	-28.36	0.00	0.00
			Max. Vx	81	0.00	0.00	0.00
		Bottom Girt	Max Tension	7	2673.36	0.00	0.00
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	86	2119.93	0.04	0.00
			Max. My	81	1890.72	0.00	-0.00
			Max. Vy	86	-28.36	0.00	0.00
			Max. Vx	81	0.00	0.00	0.00
		Mid Girt	Max Tension	97	1102.41	0.00	0.00
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	86	1000.11	0.04	0.00
			Max. My	81	711.63	0.00	-0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vy	86	-28.36	0.00	0.00
			Max. Vx	81	0.00	0.00	0.00
T13	100 - 80	Leg	Max Tension	1	0.00	0.00	0.00
			Max. Compression	87	-132426.94	-0.00	-0.04
			Max. Mx	69	-41879.39	1.79	0.76
			Max. My	48	-45395.19	0.02	-1.96
			Max. Vy	69	-6602.04	1.79	0.76
			Max. Vx	47	7153.02	0.02	-1.95
		Diagonal	Max Tension	81	5482.38	0.00	0.00
			Max. Compression	81	-5493.66	0.00	0.00
			Max. Mx	88	76.99	-0.01	0.00
			Max. My	65	-3857.73	-0.01	-0.00
			Max. Vy	88	16.05	-0.01	0.00
			Max. Vx	65	0.73	-0.01	-0.00
		Top Girt	Max Tension	7	10052.25	0.00	0.00
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	86	6221.30	0.03	0.00
			Max. My	81	5856.01	0.00	-0.00
			Max. Vy	86	-27.88	0.00	0.00
			Max. Vx	81	0.00	0.00	0.00
		Bottom Girt	Max Tension	2	1154.54	0.00	0.00
			Max. Compression	19	-372.46	0.00	0.00
			Max. Mx	86	558.65	0.03	0.00
			Max. My	81	410.74	0.00	-0.00
			Max. Vy	86	-27.88	0.00	0.00
			Max. Vx	81	0.00	0.00	0.00
		Mid Girt	Max Tension	88	1132.32	0.00	0.00
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	86	1075.58	0.03	0.00
			Max. My	81	795.86	0.00	-0.00
			Max. Vy	86	-27.88	0.00	0.00
			Max. Vx	81	0.00	0.00	0.00
		Guy A	Bottom Tension	41	30463.47		
			Top Tension	41	30619.74		
			Top Cable Vert	41	12309.92		
			Top Cable Norm	41	28036.28		
			Top Cable Tan	41	36.61		
			Bot Cable Vert	41	-11807.37		
			Bot Cable Norm	41	28081.88		
			Bot Cable Tan	41	131.56		
		Guy B	Bottom Tension	70	33875.57		
			Top Tension	70	34123.82		
			Top Cable Vert	70	19138.00		
			Top Cable Norm	70	28251.91		
			Top Cable Tan	70	37.90		
			Bot Cable Vert	70	-18534.31		
			Bot Cable Norm	70	28355.06		
			Bot Cable Tan	70	155.31		
		Guy C	Bottom Tension	27	31012.72		
			Top Tension	27	31187.41		
			Top Cable Vert	27	13457.71		
			Top Cable Norm	27	28134.37		
			Top Cable Tan	27	40.62		
			Bot Cable Vert	27	-12927.81		
			Bot Cable Norm	27	28189.39		
			Bot Cable Tan	27	135.19		
T14	80 - 60	Leg	Max Tension	1	0.00	0.00	0.00
			Max. Compression	97	-143129.04	-0.17	-0.07
			Max. Mx	65	-106989.90	-0.97	-0.35
			Max. My	44	-95084.09	0.01	1.07
			Max. Vy	67	3408.30	-0.69	-0.26

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vx	4	3876.35	-0.01	-0.39
		Diagonal	Max Tension	81	3422.57	0.00	0.00
			Max. Compression	81	-4118.91	0.00	0.00
			Max. Mx	97	172.16	-0.01	-0.00
			Max. My	81	-4095.28	-0.00	-0.00
			Max. Vy	97	15.90	-0.01	-0.00
			Max. Vx	81	0.38	-0.00	-0.00
		Top Girt	Max Tension	72	871.95	0.00	0.00
			Max. Compression	32	-143.02	0.00	0.00
			Max. Mx	86	555.78	0.03	0.00
			Max. My	81	388.03	0.00	-0.00
			Max. Vy	86	-27.32	0.00	0.00
			Max. Vx	81	0.00	0.00	0.00
		Bottom Girt	Max Tension	2	890.06	0.00	0.00
			Max. Compression	19	-98.47	0.00	0.00
			Max. Mx	86	583.60	0.03	0.00
			Max. My	81	412.50	0.00	-0.00
			Max. Vy	86	-27.32	0.00	0.00
			Max. Vx	81	0.00	0.00	0.00
		Mid Girt	Max Tension	95	1178.81	0.00	0.00
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	86	1077.54	0.03	0.00
			Max. My	81	758.97	0.00	-0.00
			Max. Vy	86	-27.32	0.00	0.00
			Max. Vx	81	0.00	0.00	0.00
T15	60 - 40	Leg	Max Tension	1	0.00	0.00	0.00
			Max. Compression	97	-149915.29	-0.31	-0.15
			Max. Mx	67	-130884.70	-0.55	-0.24
			Max. My	44	-122916.00	0.01	0.61
			Max. Vy	25	-1387.77	0.43	-0.19
			Max. Vx	4	1579.94	-0.01	-0.10
		Diagonal	Max Tension	81	1296.72	0.00	0.00
			Max. Compression	81	-1932.05	0.00	0.00
			Max. Mx	97	-365.63	-0.01	-0.00
			Max. My	81	-1908.03	-0.00	-0.00
			Max. Vy	97	15.61	-0.01	-0.00
			Max. Vx	81	0.26	-0.00	-0.00
		Top Girt	Max Tension	97	642.20	0.00	0.00
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	86	577.40	0.03	0.00
			Max. My	81	395.91	0.00	-0.00
			Max. Vy	86	-26.59	0.00	0.00
			Max. Vx	81	0.00	0.00	0.00
		Bottom Girt	Max Tension	87	682.90	0.00	0.00
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	86	607.11	0.03	0.00
			Max. My	14	397.61	0.00	-0.00
			Max. Vy	86	-26.59	0.00	0.00
			Max. Vx	14	0.00	0.00	0.00
		Mid Girt	Max Tension	95	1252.23	0.00	0.00
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	86	1120.64	0.03	0.00
			Max. My	81	768.82	0.00	-0.00
			Max. Vy	86	-26.59	0.00	0.00
			Max. Vx	81	0.00	0.00	0.00
T16	40 - 20	Leg	Max Tension	1	0.00	0.00	0.00
			Max. Compression	97	-151234.42	0.31	0.18
			Max. Mx	68	-122473.85	-0.93	-0.34
			Max. My	47	-113385.25	0.00	0.97
			Max. Vy	68	-3598.68	0.39	0.09
			Max. Vx	47	3722.14	-0.00	-0.39

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
		Diagonal	Max Tension	68	2481.54	0.00	0.00
			Max. Compression	68	-3155.94	0.00	0.00
			Max. Mx	97	-561.56	-0.01	0.00
			Max. My	74	-2548.85	-0.01	-0.00
			Max. Vy	97	14.94	-0.01	0.00
			Max. Vx	74	0.22	0.00	0.00
		Top Girt	Max Tension	5	792.69	0.00	0.00
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	86	598.41	0.03	0.00
			Max. My	14	384.19	0.00	-0.00
			Max. Vy	86	25.57	0.00	0.00
			Max. Vx	14	0.00	0.00	0.00
		Bottom Girt	Max Tension	93	1477.73	0.00	0.00
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	86	1399.68	0.03	0.00
			Max. My	14	878.77	0.00	-0.00
			Max. Vy	86	25.57	0.00	0.00
			Max. Vx	14	0.00	0.00	0.00
		Mid Girt	Max Tension	95	1309.26	0.00	0.00
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	86	1186.33	0.03	0.00
			Max. My	14	763.05	0.00	-0.00
			Max. Vy	86	25.57	0.00	0.00
			Max. Vx	14	0.00	0.00	0.00
T17	20 - 12	Leg	Max Tension	1	0.00	0.00	0.00
			Max. Compression	97	-150424.20	0.09	0.03
			Max. Mx	68	-117595.15	0.69	0.18
			Max. My	47	-113401.28	-0.00	-0.70
			Max. Vy	61	-5630.71	-0.10	0.05
			Max. Vx	5	-6480.51	-0.00	-0.11
		Diagonal	Max Tension	68	2245.75	0.00	0.00
			Max. Compression	68	-4944.42	0.00	0.00
			Max. Mx	97	-3205.33	-0.02	0.00
			Max. My	14	-3531.20	-0.01	0.00
			Max. Vy	97	20.17	-0.02	0.00
			Max. Vx	14	-0.29	0.00	0.00
		Horizontal	Max Tension	95	3495.11	0.00	0.00
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	86	3302.89	0.02	0.00
			Max. My	14	1897.98	0.00	-0.00
			Max. Vy	86	-16.12	0.00	0.00
			Max. Vx	14	0.00	0.00	0.00
		Top Girt	Max Tension	95	1527.32	0.00	0.00
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	86	1370.46	0.02	0.00
			Max. My	14	856.86	0.00	-0.00
			Max. Vy	86	-16.12	0.00	0.00
			Max. Vx	14	0.00	0.00	0.00
T18	12 - 6.6667	Leg	Max Tension	1	0.00	0.00	0.00
			Max. Compression	97	-148896.77	-0.29	-0.17
			Max. Mx	96	-146991.47	2.48	1.46
			Max. My	93	-147242.76	-0.01	-2.89
			Max. Vy	97	-28262.84	2.48	1.49
			Max. Vx	93	32575.31	-0.01	-2.89
		Diagonal	Max Tension	68	4551.80	0.00	0.00
			Max. Compression	68	-4486.96	0.00	0.00
			Max. Mx	96	947.90	0.01	0.00
			Max. My	7	152.01	0.00	-0.00
			Max. Vy	96	-11.80	0.00	0.00
			Max. Vx	7	0.06	0.00	0.00
		Horizontal	Max Tension	97	18914.98	0.00	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Compression	97	-2578.97	0.02	-0.00
			Max. Mx	97	-2462.52	-0.07	0.00
			Max. My	83	-1921.46	0.01	-0.00
			Max. Vy	97	66.37	-0.07	0.00
			Max. Vx	83	0.87	0.00	0.00
T19	6.6667 - 0	Leg	Max Tension	1	0.00	0.00	0.00
			Max. Compression	97	-163334.73	2.17	0.01
			Max. Mx	97	-148403.39	2.89	0.05
			Max. My	56	-94809.87	-0.44	-0.59
			Max. Vy	97	28805.38	0.28	0.04
			Max. Vx	56	793.64	-0.44	-0.59
		Diagonal	Max Tension	97	858.55	0.00	0.00
			Max. Compression	98	-13364.86	0.00	0.00
			Max. Mx	96	-566.31	0.08	-0.02
			Max. My	98	-13361.23	0.04	-0.02
			Max. Vy	97	86.04	0.00	0.00
			Max. Vx	98	-38.71	0.00	0.00
		Secondary Horizontal	Max Tension	98	4242.52	-0.01	0.01
			Max. Compression	97	-2995.03	0.00	0.00
			Max. Mx	98	4135.76	0.01	-0.00
			Max. My	98	4242.52	-0.01	0.01
			Max. Vy	98	16.98	-0.01	0.00
			Max. Vx	98	11.56	0.00	0.00
		Top Girt	Max Tension	96	17003.25	0.00	0.00
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	91	16794.84	0.09	0.00
			Max. My	97	16927.19	0.00	0.02
			Max. Vy	91	-72.01	0.00	0.00
			Max. Vx	97	-15.59	0.00	0.00
		Bottom Girt	Max Tension	96	9078.37	0.00	0.00
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	91	8966.38	0.00	0.00
			Max. My	98	9069.20	0.00	0.00
			Max. Vy	91	10.94	0.00	0.00
			Max. Vx	98	-2.37	0.00	0.00
		Mid Girt	Max Tension	95	2862.64	0.00	0.00
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	91	2830.14	0.03	0.00
			Max. My	98	2854.94	0.00	0.01
			Max. Vy	91	-41.47	0.00	0.00
			Max. Vx	98	-8.98	0.00	0.00

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical lb	Horizontal, X lb	Horizontal, Z lb
Mast	Max. Vert	97	434932.31	1048.71	433.52
	Max. H_x	68	262952.39	6978.65	62.88
	Max. H_z	5	270300.12	-79.69	6696.72
	Max. M_x	1	0.00	-5.11	-27.49
	Max. M_z	1	0.00	-5.11	-27.49
	Max. Torsion	56	0.77	3109.12	-6038.99
	Min. Vert	1	180210.04	-5.11	-27.49
	Min. H_x	26	250306.07	-7257.15	34.03
	Min. H_z	47	234900.12	18.38	-7215.85

Location	Condition	Gov. Load Comb.	Vertical lb	Horizontal, X lb	Horizontal, Z lb
	Min. M_x	1	0.00	-5.11	-27.49
	Min. M_z	1	0.00	-5.11	-27.49
	Min. Torsion	14	-0.76	-3629.07	5618.91
Guy C @ 205 ft Elev 5 ft Azimuth 240 deg	Max. Vert	58	-3710.59	-2437.47	1411.21
	Max. H_x	58	-3710.59	-2437.47	1411.21
	Max. H_z	9	-100157.05	-95675.27	56768.11
	Min. Vert	23	-102010.93	-98518.10	55383.87
	Min. H_x	23	-102010.93	-98518.10	55383.87
	Min. H_z	58	-3710.59	-2437.47	1411.21
Guy B @ 205 ft Elev -35 ft Azimuth 120 deg	Max. Vert	30	-5530.98	2750.94	1589.65
	Max. H_x	65	-121865.37	97698.13	54736.17
	Max. H_z	79	-121461.77	95971.76	57033.64
	Min. Vert	65	-121865.37	97698.13	54736.17
	Min. H_x	30	-5530.98	2750.94	1589.65
	Min. H_z	30	-5530.98	2750.94	1589.65
Guy A @ 200 ft Elev 15 ft Azimuth 0 deg	Max. Vert	2	-3503.13	2.40	-2772.23
	Max. H_x	65	-51853.99	2576.10	-58248.50
	Max. H_z	2	-3503.13	2.40	-2772.23
	Min. Vert	37	-99182.25	-1225.57	-112923.40
	Min. H_x	23	-53732.30	-2503.38	-60047.44
	Min. H_z	37	-99182.25	-1225.57	-112923.40

Tower Mast Reaction Summary

Load Combination	Vertical lb	$Shear_x$ lb	$Shear_z$ lb	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
Dead Only	180210.04	5.11	27.49	0.00	0.00	-0.00
1.2 Dead+1.6 Wind 0 deg - No Ice+1.0 Guy	285203.62	139.41	-5932.40	0.00	0.00	0.16
1.2D+1.6W (pattern 1) 0 deg - No Ice+1.0 Guy	284200.93	150.09	-5135.67	0.00	0.00	-0.10
1.2D+1.6W (pattern 2) 0 deg - No Ice+1.0 Guy	279584.29	133.26	-6120.61	0.00	0.00	-0.34
1.2D+1.6W (pattern 3) 0 deg - No Ice+1.0 Guy	270300.12	79.69	-6696.72	0.00	0.00	0.08
1.2D+1.6W (pattern 4) 0 deg - No Ice+1.0 Guy	279788.54	123.63	-6084.63	0.00	0.00	0.17
1.2D+1.6W (pattern 5) 0 deg - No Ice+1.0 Guy	280240.86	129.15	-6031.70	0.00	0.00	0.55
1.2D+1.6W (pattern 6) 0 deg - No Ice+1.0 Guy	283237.86	136.16	-5955.10	0.00	0.00	0.14
1.2 Dead+1.6 Wind 30 deg - No Ice+1.0 Guy	266386.72	3633.36	-5547.92	0.00	0.00	0.54
1.2D+1.6W (pattern 1) 30 deg - No Ice+1.0 Guy	265634.16	3270.57	-4861.13	0.00	0.00	0.24
1.2D+1.6W (pattern 2) 30 deg - No Ice+1.0 Guy	262088.74	3697.29	-5684.38	0.00	0.00	0.07
1.2D+1.6W (pattern 3) 30 deg - No Ice+1.0 Guy	255128.25	3721.65	-6128.41	0.00	0.00	0.41
1.2D+1.6W (pattern 4) 30 deg -	262303.10	3632.54	-5660.30	0.00	0.00	0.45

Load Combination	Vertical lb	$Shear_x$ lb	$Shear_z$ lb	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
No Ice+1.0 Guy						
1.2D+1.6W (pattern 5) 30 deg - No Ice+1.0 Guy	262673.80	3629.07	-5618.91	0.00	0.00	0.76
1.2D+1.6W (pattern 6) 30 deg - No Ice+1.0 Guy	264913.89	3629.95	-5563.15	0.00	0.00	0.51
1.2 Dead+1.6 Wind 60 deg - No Ice+1.0 Guy	238822.98	5943.76	-3449.76	0.00	0.00	0.15
1.2D+1.6W (pattern 1) 60 deg - No Ice+1.0 Guy	238619.46	5287.06	-3079.16	0.00	0.00	-0.11
1.2D+1.6W (pattern 2) 60 deg - No Ice+1.0 Guy	237420.21	6046.90	-3507.60	0.00	0.00	-0.19
1.2D+1.6W (pattern 3) 60 deg - No Ice+1.0 Guy	234756.47	6203.10	-3580.91	0.00	0.00	0.04
1.2D+1.6W (pattern 4) 60 deg - No Ice+1.0 Guy	237146.01	5967.06	-3459.03	0.00	0.00	-0.04
1.2D+1.6W (pattern 5) 60 deg - No Ice+1.0 Guy	237263.97	5949.65	-3449.97	0.00	0.00	0.11
1.2D+1.6W (pattern 6) 60 deg - No Ice+1.0 Guy	238193.03	5940.12	-3446.82	0.00	0.00	0.10
1.2 Dead+1.6 Wind 90 deg - No Ice+1.0 Guy	260236.12	6749.82	-191.52	0.00	0.00	-0.36
1.2D+1.6W (pattern 1) 90 deg - No Ice+1.0 Guy	259579.27	5964.94	-221.34	0.00	0.00	-0.51
1.2D+1.6W (pattern 2) 90 deg - No Ice+1.0 Guy	256465.52	6890.49	-185.75	0.00	0.00	-0.46
1.2D+1.6W (pattern 3) 90 deg - No Ice+1.0 Guy	250306.07	7257.15	-34.03	0.00	0.00	-0.38
1.2D+1.6W (pattern 4) 90 deg - No Ice+1.0 Guy	256521.95	6832.90	-154.99	0.00	0.00	-0.54
1.2D+1.6W (pattern 5) 90 deg - No Ice+1.0 Guy	256832.75	6796.97	-168.76	0.00	0.00	-0.61
1.2D+1.6W (pattern 6) 90 deg - No Ice+1.0 Guy	258879.34	6756.83	-186.79	0.00	0.00	-0.40
1.2 Dead+1.6 Wind 120 deg - No Ice+1.0 Guy	269035.66	5538.22	3251.80	0.00	0.00	-0.09
1.2D+1.6W (pattern 1) 120 deg - No Ice+1.0 Guy	268213.81	4842.86	2852.88	0.00	0.00	-0.09
1.2D+1.6W (pattern 2) 120 deg - No Ice+1.0 Guy	264208.95	5679.02	3331.94	0.00	0.00	0.05
1.2D+1.6W (pattern 3) 120 deg - No Ice+1.0 Guy	256012.95	6102.87	3564.17	0.00	0.00	-0.10
1.2D+1.6W (pattern 4) 120 deg - No Ice+1.0 Guy	264266.74	5638.33	3305.56	0.00	0.00	-0.24
1.2D+1.6W (pattern 5) 120 deg - No Ice+1.0 Guy	264664.51	5598.13	3282.77	0.00	0.00	-0.46
1.2D+1.6W (pattern 6) 120 deg - No Ice+1.0 Guy	267300.27	5548.79	3257.24	0.00	0.00	-0.11
1.2 Dead+1.6 Wind 150 deg - No Ice+1.0 Guy	259199.65	3188.52	6030.52	0.00	0.00	0.21
1.2D+1.6W (pattern 1) 150 deg - No Ice+1.0 Guy	258572.91	2770.03	5369.87	0.00	0.00	0.36
1.2D+1.6W (pattern 2) 150 deg - No Ice+1.0 Guy	255590.71	3262.92	6147.07	0.00	0.00	0.56
1.2D+1.6W (pattern 3) 150 deg - No Ice+1.0 Guy	249431.09	3577.51	6368.30	0.00	0.00	0.21
1.2D+1.6W (pattern 4) 150 deg - No Ice+1.0 Guy	255530.47	3262.17	6077.91	0.00	0.00	0.12
1.2D+1.6W (pattern 5) 150 deg - No Ice+1.0 Guy	255830.33	3233.00	6054.91	0.00	0.00	-0.20
1.2D+1.6W (pattern 6) 150 deg - No Ice+1.0 Guy	257856.82	3196.30	6033.26	0.00	0.00	0.22

Load Combination	Vertical lb	$Shear_x$ lb	$Shear_z$ lb	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
1.2 Dead+1.6 Wind 180 deg - No Ice+1.0 Guy	238832.77	-32.34	6944.39	0.00	0.00	-0.05
1.2D+1.6W (pattern 1) 180 deg - No Ice+1.0 Guy	238668.54	-38.98	6194.67	0.00	0.00	0.21
1.2D+1.6W (pattern 2) 180 deg - No Ice+1.0 Guy	237587.75	-31.76	7061.45	0.00	0.00	0.43
1.2D+1.6W (pattern 3) 180 deg - No Ice+1.0 Guy	234900.12	-18.38	7215.85	0.00	0.00	-0.02
1.2D+1.6W (pattern 4) 180 deg - No Ice+1.0 Guy	237170.01	-29.51	6965.35	0.00	0.00	-0.06
1.2D+1.6W (pattern 5) 180 deg - No Ice+1.0 Guy	237266.34	-29.65	6947.76	0.00	0.00	-0.46
1.2D+1.6W (pattern 6) 180 deg - No Ice+1.0 Guy	238200.55	-31.92	6939.62	0.00	0.00	-0.03
1.2 Dead+1.6 Wind 210 deg - No Ice+1.0 Guy	264913.68	-3048.78	6011.40	0.00	0.00	-0.56
1.2D+1.6W (pattern 1) 210 deg - No Ice+1.0 Guy	264211.85	-2636.14	5357.34	0.00	0.00	-0.26
1.2D+1.6W (pattern 2) 210 deg - No Ice+1.0 Guy	260745.35	-3134.24	6132.68	0.00	0.00	-0.09
1.2D+1.6W (pattern 3) 210 deg - No Ice+1.0 Guy	254027.86	-3491.58	6353.36	0.00	0.00	-0.44
1.2D+1.6W (pattern 4) 210 deg - No Ice+1.0 Guy	260895.07	-3142.41	6060.82	0.00	0.00	-0.47
1.2D+1.6W (pattern 5) 210 deg - No Ice+1.0 Guy	261248.68	-3109.12	6038.99	0.00	0.00	-0.77
1.2D+1.6W (pattern 6) 210 deg - No Ice+1.0 Guy	263452.91	-3062.62	6015.03	0.00	0.00	-0.53
1.2 Dead+1.6 Wind 240 deg - No Ice+1.0 Guy	283315.60	-5146.32	3185.56	0.00	0.00	-0.17
1.2D+1.6W (pattern 1) 240 deg - No Ice+1.0 Guy	282349.10	-4450.90	2798.78	0.00	0.00	0.09
1.2D+1.6W (pattern 2) 240 deg - No Ice+1.0 Guy	277703.08	-5312.13	3272.84	0.00	0.00	0.17
1.2D+1.6W (pattern 3) 240 deg - No Ice+1.0 Guy	268687.10	-5824.83	3494.97	0.00	0.00	-0.09
1.2D+1.6W (pattern 4) 240 deg - No Ice+1.0 Guy	277953.46	-5282.66	3241.86	0.00	0.00	-0.02
1.2D+1.6W (pattern 5) 240 deg - No Ice+1.0 Guy	278396.47	-5235.02	3220.96	0.00	0.00	-0.15
1.2D+1.6W (pattern 6) 240 deg - No Ice+1.0 Guy	281365.94	-5166.46	3192.74	0.00	0.00	-0.14
1.2 Dead+1.6 Wind 270 deg - No Ice+1.0 Guy	275125.96	-6325.55	-218.15	0.00	0.00	0.16
1.2D+1.6W (pattern 1) 270 deg - No Ice+1.0 Guy	274239.50	-5531.92	-235.83	0.00	0.00	0.31
1.2D+1.6W (pattern 2) 270 deg - No Ice+1.0 Guy	270268.61	-6493.43	-206.97	0.00	0.00	0.28
1.2D+1.6W (pattern 3) 270 deg - No Ice+1.0 Guy	262952.39	-6978.65	-62.88	0.00	0.00	0.18
1.2D+1.6W (pattern 4) 270 deg - No Ice+1.0 Guy	270723.96	-6449.29	-178.57	0.00	0.00	0.35
1.2D+1.6W (pattern 5) 270 deg - No Ice+1.0 Guy	271110.72	-6403.63	-191.46	0.00	0.00	0.43
1.2D+1.6W (pattern 6) 270 deg - No Ice+1.0 Guy	273536.14	-6342.04	-211.39	0.00	0.00	0.20
1.2 Dead+1.6 Wind 300 deg - No Ice+1.0 Guy	246882.36	-5733.92	-3295.54	0.00	0.00	-0.55
1.2D+1.6W (pattern 1) 300 deg - No Ice+1.0 Guy	246455.05	-5061.20	-2907.78	0.00	0.00	-0.55
1.2D+1.6W (pattern 2) 300 deg	244653.59	-5844.91	-3358.07	0.00	0.00	-0.70

Load Combination	Vertical lb	$Shear_x$ lb	$Shear_z$ lb	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
- No Ice+1.0 Guy						
1.2D+1.6W (pattern 3) 300 deg - No Ice+1.0 Guy	241313.63	-6079.54	-3491.95	0.00	0.00	-0.43
1.2D+1.6W (pattern 4) 300 deg - No Ice+1.0 Guy	244841.32	-5775.25	-3317.74	0.00	0.00	-0.29
1.2D+1.6W (pattern 5) 300 deg - No Ice+1.0 Guy	245014.92	-5750.30	-3303.86	0.00	0.00	0.06
1.2D+1.6W (pattern 6) 300 deg - No Ice+1.0 Guy	246151.73	-5731.85	-3293.88	0.00	0.00	-0.51
1.2 Dead+1.6 Wind 330 deg - No Ice+1.0 Guy	275526.11	-3390.73	-5298.70	0.00	0.00	-0.27
1.2D+1.6W (pattern 1) 330 deg - No Ice+1.0 Guy	274617.25	-3010.05	-4601.98	0.00	0.00	-0.43
1.2D+1.6W (pattern 2) 330 deg - No Ice+1.0 Guy	270696.12	-3464.97	-5449.26	0.00	0.00	-0.69
1.2D+1.6W (pattern 3) 330 deg - No Ice+1.0 Guy	263122.02	-3577.51	-5956.37	0.00	0.00	-0.30
1.2D+1.6W (pattern 4) 330 deg - No Ice+1.0 Guy	271098.66	-3415.53	-5429.85	0.00	0.00	-0.17
1.2D+1.6W (pattern 5) 330 deg - No Ice+1.0 Guy	271496.63	-3403.07	-5383.47	0.00	0.00	0.21
1.2D+1.6W (pattern 6) 330 deg - No Ice+1.0 Guy	273932.60	-3392.48	-5317.70	0.00	0.00	-0.28
1.2 Dead+1.0 Ice+1.0 Temp+Guy	423959.66	166.03	270.66	0.00	0.00	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp+1.0 Guy	433579.74	207.85	-1139.54	0.00	0.00	-0.20
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp+1.0 Guy	432784.23	932.33	-1011.48	0.00	0.00	0.34
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp+1.0 Guy	431926.78	1463.84	-506.06	0.00	0.00	0.42
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp+1.0 Guy	429926.28	1652.12	247.06	0.00	0.00	0.38
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp+1.0 Guy	428149.71	1431.86	1011.52	0.00	0.00	0.57
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp+1.0 Guy	430226.98	888.96	1589.41	0.00	0.00	0.61
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp+1.0 Guy	432302.02	145.35	1804.36	0.00	0.00	0.17
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp+1.0 Guy	432975.86	-562.43	1594.92	0.00	0.00	-0.32
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp+1.0 Guy	433514.66	-1038.82	1025.61	0.00	0.00	-0.43
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp+1.0 Guy	434409.33	-1234.38	291.00	0.00	0.00	-0.43
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp+1.0 Guy	434932.31	-1048.71	-433.52	0.00	0.00	-0.66
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp+1.0 Guy	434464.03	-518.57	-951.15	0.00	0.00	-0.71
Dead+Wind 0 deg - Service+Guy	181655.15	8.65	-1971.00	0.00	0.00	0.03
Dead+Wind 30 deg - Service+Guy	182073.92	1019.23	-1751.01	0.00	0.00	0.11
Dead+Wind 60 deg - Service+Guy	182495.48	1711.29	-961.77	0.00	0.00	0.01
Dead+Wind 90 deg - Service+Guy	182530.78	2047.19	34.70	0.00	0.00	-0.08
Dead+Wind 120 deg - Service+Guy	182473.89	1729.95	1023.51	0.00	0.00	-0.03
Dead+Wind 150 deg - Service+Guy	182783.11	1031.75	1792.09	0.00	0.00	0.01

Load Combination	Vertical lb	$Shear_x$ lb	$Shear_z$ lb	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
Dead+Wind 180 deg - Service+Guy	182882.87	0.95	2000.00	0.00	0.00	-0.05
Dead+Wind 210 deg - Service+Guy	182441.96	-1028.65	1794.91	0.00	0.00	-0.11
Dead+Wind 240 deg - Service+Guy	181887.38	-1724.73	1029.87	0.00	0.00	-0.02
Dead+Wind 270 deg - Service+Guy	181732.90	-2037.11	42.76	0.00	0.00	0.06
Dead+Wind 300 deg - Service+Guy	181720.95	-1695.03	-953.82	0.00	0.00	0.01
Dead+Wind 330 deg - Service+Guy	181617.47	-1002.46	-1747.64	0.00	0.00	-0.04

Solution Summary

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX lb	PY lb	PZ lb	PX lb	PY lb	PZ lb	% Error
1	-0.00	-80377.34	-0.00	-1.63	80377.38	-1.02	0.002%
2	-247.04	-95522.88	-100546.53	246.37	95522.66	100540.03	0.005%
3	-217.61	-95522.88	-98838.26	216.94	95522.66	98831.70	0.005%
4	-247.04	-95522.88	-96906.15	246.36	95522.65	96899.60	0.005%
5	-220.69	-95522.88	-93649.14	220.13	95522.71	93643.76	0.004%
6	-247.04	-95522.88	-98544.11	246.46	95522.71	98538.58	0.004%
7	-247.04	-95522.88	-98800.11	246.47	95522.71	98794.67	0.004%
8	-247.04	-95522.88	-99896.44	246.42	95522.68	99890.42	0.004%
9	50932.74	-94992.65	-88090.00	-50933.65	94992.51	88085.21	0.004%
10	50088.82	-94992.65	-86628.29	-50089.74	94992.51	86623.46	0.004%
11	49059.13	-94992.65	-84937.34	-49060.04	94992.51	84932.55	0.004%
12	47511.29	-94992.65	-82129.87	-47512.06	94992.55	82126.11	0.003%
13	49931.53	-94992.65	-86355.85	-49932.32	94992.55	86351.95	0.003%
14	50060.56	-94992.65	-86579.34	-50061.33	94992.55	86575.52	0.003%
15	50607.70	-94992.65	-87527.01	-50608.54	94992.53	87522.67	0.003%
16	87310.06	-94449.70	-50043.18	-87311.90	94449.71	50040.38	0.002%
17	85819.93	-94449.70	-49216.82	-85821.77	94449.71	49214.02	0.002%
18	84064.87	-94449.70	-48222.99	-84066.71	94449.71	48220.20	0.002%
19	81357.59	-94449.70	-46617.31	-81359.60	94449.71	46614.33	0.003%
20	85575.92	-94449.70	-49041.97	-85578.04	94449.71	49038.80	0.003%
21	85800.00	-94449.70	-49171.34	-85802.09	94449.71	49168.22	0.003%
22	86747.07	-94449.70	-49718.14	-86748.75	94449.71	49715.60	0.002%
23	102358.51	-94807.73	199.09	-102354.55	94807.58	-196.45	0.003%
24	100619.72	-94807.73	169.66	-100615.72	94807.58	-167.00	0.003%
25	98611.29	-94807.73	199.09	-98607.33	94807.58	-196.45	0.003%
26	95469.98	-94807.73	172.74	-95466.86	94807.62	-170.60	0.003%
27	100356.09	-94807.73	199.09	-100352.84	94807.61	-196.87	0.003%
28	100614.16	-94807.73	199.09	-100610.96	94807.62	-196.90	0.003%
29	101708.43	-94807.73	199.09	-101704.82	94807.60	-196.66	0.003%
30	87571.69	-95189.09	50479.49	-87567.98	95188.94	-50477.44	0.003%
31	86048.16	-95189.09	49599.87	-86044.40	95188.94	-49597.81	0.003%
32	84326.50	-95189.09	48659.30	-84322.77	95188.94	-48657.24	0.003%
33	81592.87	-95189.09	47007.97	-81588.41	95188.92	-47005.53	0.004%
34	85837.55	-95189.09	49478.28	-85832.94	95188.91	-49475.74	0.004%
35	86059.25	-95189.09	49606.28	-86054.71	95188.92	-49603.78	0.004%
36	87008.70	-95189.09	50154.44	-87003.65	95188.89	-50151.67	0.004%
37	51350.40	-94754.30	88415.23	-51345.98	94754.16	-88413.29	0.003%
38	50455.52	-94754.30	86924.10	-50451.06	94754.15	-86922.14	0.004%
39	49476.79	-94754.30	85262.57	-49472.37	94754.16	-85260.63	0.004%
40	47883.31	-94754.30	82428.75	-47879.79	94754.20	-82427.26	0.003%

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX lb	PY lb	PZ lb	PX lb	PY lb	PZ lb	% Error
41	50349.19	-94754.30	86681.09	-50345.52	94754.19	-86679.52	0.003%
42	50478.22	-94754.30	86904.57	-50474.62	94754.19	-86903.04	0.003%
43	51025.36	-94754.30	87852.24	-51021.32	94754.18	-87850.49	0.003%
44	247.04	-94355.57	100528.20	-249.99	94355.57	-100528.31	0.002%
45	217.61	-94355.57	98824.53	-220.57	94355.57	-98824.64	0.002%
46	247.04	-94355.57	96887.82	-249.97	94355.57	-96887.93	0.002%
47	220.69	-94355.57	93630.82	-223.89	94355.57	-93630.96	0.002%
48	247.04	-94355.57	98525.78	-250.31	94355.57	-98525.93	0.002%
49	247.04	-94355.57	98784.53	-250.26	94355.57	-98784.67	0.002%
50	247.04	-94355.57	99878.11	-250.75	94355.57	-99878.27	0.003%
51	-50932.74	-94885.80	88090.00	50928.85	94885.68	-88088.70	0.003%
52	-50088.82	-94885.80	86628.29	50084.90	94885.68	-86626.98	0.003%
53	-49059.13	-94885.80	84937.34	49055.24	94885.68	-84936.04	0.003%
54	-47511.29	-94885.80	82129.87	47506.96	94885.68	-82128.49	0.003%
55	-49931.53	-94885.80	86355.85	49927.03	94885.68	-86354.41	0.003%
56	-50060.56	-94885.80	86579.34	50056.15	94885.68	-86577.93	0.003%
57	-50607.70	-94885.80	87527.01	50602.72	94885.66	-87525.38	0.004%
58	-87325.94	-95428.75	50052.34	87320.80	95428.56	-50050.17	0.004%
59	-85831.82	-95428.75	49223.69	85826.64	95428.55	-49221.49	0.004%
60	-84080.75	-95428.75	48232.15	84075.57	95428.55	-48229.96	0.004%
61	-81373.46	-95428.75	46626.47	81369.22	95428.60	-46624.67	0.003%
62	-85591.79	-95428.75	49051.13	85587.43	95428.60	-49049.29	0.003%
63	-85813.50	-95428.75	49179.14	85809.21	95428.60	-49177.32	0.003%
64	-86762.94	-95428.75	49727.30	86758.20	95428.58	-49725.29	0.004%
65	-102358.51	-95070.72	-199.09	102352.74	95070.52	202.13	0.005%
66	-100619.72	-95070.72	-169.66	100613.89	95070.52	172.73	0.005%
67	-98611.29	-95070.72	-199.09	98607.17	95070.57	201.26	0.003%
68	-95469.98	-95070.72	-172.74	95465.36	95070.57	175.26	0.004%
69	-100356.09	-95070.72	-199.09	100351.31	95070.57	201.68	0.004%
70	-100614.16	-95070.72	-199.09	100609.45	95070.57	201.64	0.004%
71	-101708.43	-95070.72	-199.09	101703.15	95070.54	201.90	0.004%
72	-87555.82	-94689.36	-50470.32	87552.55	94689.32	50473.29	0.003%
73	-86036.26	-94689.36	-49593.00	86032.96	94689.32	49595.99	0.003%
74	-84310.63	-94689.36	-48650.13	84307.43	94689.32	48652.98	0.003%
75	-81577.00	-94689.36	-46998.81	81573.16	94689.31	47001.55	0.004%
76	-85821.67	-94689.36	-49469.11	85817.71	94689.31	49471.82	0.004%
77	-86045.76	-94689.36	-49598.49	86041.92	94689.31	49600.97	0.003%
78	-86992.83	-94689.36	-50145.28	86989.84	94689.33	50147.89	0.003%
79	-51350.40	-95124.15	-88415.23	51350.35	95123.98	88409.65	0.004%
80	-50455.52	-95124.15	-86924.10	50455.46	95123.98	86918.46	0.004%
81	-49476.79	-95124.15	-85262.57	49476.74	95123.98	85256.96	0.004%
82	-47883.31	-95124.15	-82428.75	47883.34	95124.02	82424.26	0.003%
83	-50349.19	-95124.15	-86681.09	50349.20	95124.02	86676.44	0.003%
84	-50478.22	-95124.15	-86904.57	50478.23	95124.02	86900.01	0.003%
85	-51025.36	-95124.15	-87852.24	51025.34	95124.00	87847.13	0.004%
86	-0.00	-289244.03	-0.00	-3.65	289244.04	-0.96	0.001%
87	-143.77	-289771.33	-41839.82	143.55	289771.32	41838.16	0.001%
88	20842.44	-289290.39	-36082.06	-20843.07	289290.38	36080.40	0.001%
89	36323.35	-288798.52	-20788.91	-36323.46	288798.51	20787.43	0.001%
90	42009.42	-289150.05	98.90	-42008.20	289150.04	-97.94	0.001%
91	36478.13	-289515.97	21044.29	-36476.87	289515.96	-21043.66	0.000%
92	21088.04	-289103.70	36309.64	-21086.83	289103.69	-36309.28	0.000%
93	143.77	-288716.73	41838.15	-145.66	288716.72	-41837.86	0.001%
94	-20842.44	-289197.67	36082.06	20840.76	289197.66	-36081.79	0.001%
95	-36324.80	-289689.54	20789.74	36323.23	289689.52	-20789.16	0.001%
96	-42009.42	-289338.01	-98.90	42007.75	289337.98	100.02	0.001%
97	-36476.68	-288972.09	-21043.45	36474.51	288972.06	21043.64	0.001%
98	-21088.04	-289384.37	-36309.64	21088.21	289384.35	36307.76	0.001%
99	-67.12	-80535.92	-27319.13	66.59	80535.92	27317.69	0.002%
100	13838.75	-80391.85	-23934.61	-13839.05	80391.86	23933.52	0.001%
101	23722.70	-80244.33	-13597.05	-23721.95	80244.33	13595.84	0.002%

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX lb	PY lb	PZ lb	PX lb	PY lb	PZ lb	% Error
102	27811.45	-80341.61	54.09	-27810.09	80341.60	-53.67	0.002%
103	23793.17	-80445.62	13715.25	-23791.69	80445.61	-13714.38	0.002%
104	13952.23	-80327.09	24022.98	-13951.24	80327.09	-24022.11	0.002%
105	67.12	-80218.75	27314.15	-68.10	80218.75	-27313.03	0.002%
106	-13838.75	-80362.82	23934.61	13837.51	80362.82	-23934.35	0.001%
107	-23727.01	-80510.34	13599.54	23725.49	80510.35	-13599.22	0.002%
108	-27811.45	-80413.07	-54.09	27809.84	80413.06	54.07	0.002%
109	-23789.47	-80309.45	-13713.11	23788.43	80309.44	13712.64	0.001%
110	-13952.23	-80427.58	-24022.98	13951.33	80427.58	24021.79	0.002%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	15	0.00000001	0.00003290
2	Yes	31	0.00009425	0.00006450
3	Yes	31	0.00009548	0.00006577
4	Yes	31	0.00009720	0.00006594
5	Yes	31	0.00008887	0.00005586
6	Yes	31	0.00008608	0.00005553
7	Yes	31	0.00008486	0.00005345
8	Yes	31	0.00008994	0.00005980
9	Yes	31	0.00008851	0.00004863
10	Yes	31	0.00008949	0.00004945
11	Yes	31	0.00009055	0.00004908
12	Yes	31	0.00007923	0.00003960
13	Yes	31	0.00007751	0.00003997
14	Yes	31	0.00007582	0.00003889
15	Yes	31	0.00008272	0.00004400
16	Yes	22	0.00008336	0.00003214
17	Yes	22	0.00008352	0.00003228
18	Yes	22	0.00008408	0.00003227
19	Yes	21	0.00009737	0.00003691
20	Yes	21	0.00009819	0.00003647
21	Yes	21	0.00009634	0.00003568
22	Yes	22	0.00007675	0.00002901
23	Yes	27	0.00008541	0.00005377
24	Yes	27	0.00008639	0.00005465
25	Yes	27	0.00008713	0.00005410
26	Yes	27	0.00007626	0.00004436
27	Yes	27	0.00007543	0.00004415
28	Yes	27	0.00007413	0.00004276
29	Yes	27	0.00008021	0.00004883
30	Yes	28	0.00006960	0.00004850
31	Yes	28	0.00007061	0.00004939
32	Yes	28	0.00007150	0.00004924
33	Yes	27	0.00009253	0.00006095
34	Yes	27	0.00009099	0.00006015
35	Yes	27	0.00008938	0.00005726
36	Yes	27	0.00009565	0.00006591
37	Yes	27	0.00008957	0.00005631
38	Yes	27	0.00009056	0.00005731
39	Yes	27	0.00009125	0.00005697
40	Yes	27	0.00007991	0.00004676
41	Yes	27	0.00007909	0.00004655
42	Yes	27	0.00007772	0.00004366

43	Yes	27	0.00008407	0.00005136
44	Yes	23	0.00007688	0.00002946
45	Yes	23	0.00007701	0.00003232
46	Yes	23	0.00007723	0.00002965
47	Yes	22	0.00009065	0.00003441
48	Yes	22	0.00008971	0.00003493
49	Yes	22	0.00008686	0.00003135
50	Yes	22	0.00009761	0.00003667
51	Yes	31	0.00007586	0.00004133
52	Yes	31	0.00007666	0.00004201
53	Yes	31	0.00007751	0.00004169
54	Yes	30	0.00009539	0.00004738
55	Yes	30	0.00009362	0.00004783
56	Yes	30	0.00009171	0.00004661
57	Yes	30	0.00009969	0.00005253
58	Yes	31	0.00008113	0.00005525
59	Yes	31	0.00008217	0.00005624
60	Yes	31	0.00008367	0.00005617
61	Yes	31	0.00007618	0.00004742
62	Yes	31	0.00007386	0.00004715
63	Yes	31	0.00007276	0.00004637
64	Yes	31	0.00007727	0.00005097
65	Yes	30	0.00009820	0.00006757
66	Yes	30	0.00009939	0.00006875
67	Yes	31	0.00007180	0.00004879
68	Yes	30	0.00008930	0.00005660
69	Yes	30	0.00008747	0.00005620
70	Yes	30	0.00008596	0.00005455
71	Yes	30	0.00009262	0.00006174
72	Yes	21	0.00008579	0.00004228
73	Yes	21	0.00008615	0.00004264
74	Yes	21	0.00008455	0.00004197
75	Yes	20	0.00009868	0.00005101
76	Yes	20	0.00009463	0.00004783
77	Yes	20	0.00008925	0.00004371
78	Yes	21	0.00007786	0.00003811
79	Yes	31	0.00008516	0.00005857
80	Yes	31	0.00008620	0.00005969
81	Yes	31	0.00008743	0.00005965
82	Yes	31	0.00007743	0.00004916
83	Yes	31	0.00007563	0.00004881
84	Yes	31	0.00007424	0.00004621
85	Yes	31	0.00008018	0.00005360
86	Yes	19	0.00010000	0.00002755
87	Yes	28	0.00008758	0.00001209
88	Yes	27	0.00009588	0.00001275
89	Yes	23	0.00007231	0.00001096
90	Yes	25	0.00008896	0.00001165
91	Yes	25	0.00009740	0.00001083
92	Yes	25	0.00007198	0.00000963
93	Yes	24	0.00009483	0.00001398
94	Yes	28	0.00008888	0.00001240
95	Yes	29	0.00008488	0.00001235
96	Yes	28	0.00008200	0.00001481
97	Yes	24	0.00007585	0.00001689
98	Yes	27	0.00007810	0.00001391
99	Yes	14	0.00000001	0.00001748
100	Yes	15	0.00000001	0.00001467
101	Yes	14	0.00000001	0.00001948
102	Yes	14	0.00000001	0.00001765
103	Yes	13	0.00000001	0.00001788
104	Yes	14	0.00000001	0.00001638
105	Yes	14	0.00000001	0.00002041
106	Yes	15	0.00000001	0.00001652

107	Yes	14	0.00000001	0.00001727
108	Yes	15	0.00000001	0.00002134
109	Yes	16	0.00000001	0.00001691
110	Yes	15	0.00000001	0.00002003

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	345 - 330	4.127	109	0.0402	0.3305
T1	330 - 320	4.128	109	0.0480	0.3204
T2	320 - 300	4.149	109	0.0440	0.3204
T3	300 - 280	4.136	109	0.0310	0.2981
T4	280 - 260	4.054	109	0.0264	0.2453
T5	260 - 240	3.928	109	0.0397	0.2012
T6	240 - 220	3.701	109	0.0743	0.1619
T7	220 - 200	3.304	109	0.1097	0.1230
T8	200 - 180	2.791	109	0.1182	0.0840
T9	180 - 160	2.307	109	0.0884	0.0577
T10	160 - 140	2.045	109	0.0521	0.0482
T11	140 - 120	1.870	109	0.0420	0.0329
T12	120 - 100	1.704	108	0.0400	0.0211
T13	100 - 80	1.548	108	0.0277	0.0168
T14	80 - 60	1.475	108	0.0298	0.0140
T15	60 - 40	1.321	108	0.0554	0.0119
T16	40 - 20	1.018	108	0.0909	0.0114
T17	20 - 12	0.557	108	0.1215	0.0094
T18	12 - 6.6667	0.341	108	0.1292	0.0089
T19	6.6667 - 0	0.190	108	0.1324	0.0086

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
342.00	1105-1A	109	4.125	0.0425	0.3278	100705
338.00	MP-3E	109	4.123	0.0454	0.3245	71932
332.50	1105-1A	109	4.125	0.0478	0.3212	41502
330.00	Guy	109	4.128	0.0480	0.3204	41750
317.50	P-9A120GN	109	4.153	0.0425	0.3198	48689
317.00	3' Side Arm	109	4.153	0.0422	0.3196	48482
312.00	SHP-1AE	109	4.155	0.0391	0.3162	51989
308.00	P-9A72GN-S	109	4.152	0.0365	0.3118	55836
307.33	3" Dia 20' Omni	109	4.151	0.0361	0.3109	56534
305.50	3" Dia 20' Omni	109	4.149	0.0348	0.3082	58544
297.46	Guy	109	4.129	0.0291	0.2924	72009
295.50	3' Side Arm	109	4.122	0.0276	0.2875	77746
294.00	LeBlanc 10' Standoff (3)	109	4.117	0.0265	0.2837	82892
289.00	3" Dia 20' Omni	109	4.097	0.0228	0.2701	98004
288.00	1105-1A	109	4.092	0.0227	0.2673	101164
284.00	3" Dia 20' Omni	109	4.074	0.0240	0.2561	116052
279.00	1105-1A	109	4.049	0.0269	0.2427	117712
274.25	3" Dia 20' Omni	109	4.023	0.0293	0.2312	87232
274.00	SPD6-58	109	4.022	0.0295	0.2306	85887
270.10	Guy	109	3.999	0.0315	0.2219	69227

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
264.25	Pirod 4' Side Mount Standoff (1)	109	3.960	0.0355	0.2097	53632
262.00	Pirod 4' Side Mount Standoff (1)	109	3.944	0.0375	0.2052	49190
252.00	3" Dia 20' Omni	109	3.854	0.0513	0.1854	32765
251.00	P-9A72GN-S	109	3.844	0.0531	0.1834	31622
226.50	Site Pro LTF12-4126	109	3.450	0.1000	0.1358	29342
219.50	1105-1A	109	3.292	0.1104	0.1220	35134
213.00	15' OMNI	109	3.133	0.1169	0.1090	48538
209.00	MFF-950B	109	3.030	0.1192	0.1010	63836
208.00	2" Dia 8' Omni	109	3.004	0.1195	0.0990	68964
205.50	Pirod 6-8' Box Arm (1)	109	2.938	0.1198	0.0942	86297
204.00	Pirod 6-8' Box Arm (1)	109	2.898	0.1197	0.0913	101772
200.00	7770	109	2.791	0.1182	0.0840	298609
188.50	(2) AIR 21 B2A B4P	109	2.493	0.1043	0.0663	26362
186.50	Valmont 10' Wireless Frame (3)	109	2.445	0.1009	0.0639	22376
177.25	Guy	109	2.258	0.0828	0.0558	17094
169.50	(2) LPA-80080-4CF-EDIN w/MP	109	2.147	0.0673	0.0522	26569
168.00	Pirod 12' T-Frame Sector Mount (1)	109	2.129	0.0645	0.0516	29543
150.50	13' Diapole	109	1.959	0.0444	0.0415	144237
146.00	3" Dia 20' Omni	109	1.920	0.0428	0.0378	266248
138.50	Pirod 4' Side Mount Standoff (1)	109	1.857	0.0420	0.0318	288148
130.00	P-9A72GN-S	109	1.785	0.0419	0.0262	162996
123.50	HP2-18	108	1.733	0.0411	0.0226	122556
112.00	MTZ-940B	108	1.635	0.0354	0.0195	100355
106.50	HP2-18	108	1.591	0.0316	0.0182	46854
99.92	Guy	108	1.548	0.0277	0.0168	32590
90.00	1.9"x4' pipe mount	108	1.509	0.0258	0.0152	141734
36.00	SPD3-2.4NS	108	0.937	0.0978	0.0110	30168

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	345 - 330	29.656	60	0.3912	1.2718
T1	330 - 320	28.653	60	0.3580	1.2347
T2	320 - 300	28.121	3	0.3732	1.2375
T3	300 - 280	27.053	3	0.4213	1.1604
T4	280 - 260	25.691	3	0.4598	0.9744
T5	260 - 240	24.120	3	0.4692	0.8214
T6	240 - 220	22.160	3	0.5824	0.6883
T7	220 - 200	19.596	3	0.6893	0.5566
T8	200 - 180	16.703	2	0.6982	0.4244
T9	180 - 160	14.003	2	0.5632	0.3341
T10	160 - 140	12.266	8	0.3906	0.2980
T11	140 - 120	10.975	7	0.3307	0.2367
T12	120 - 100	9.782	7	0.3075	0.1850
T13	100 - 80	8.611	7	0.2553	0.1432
T14	80 - 60	7.745	7	0.2464	0.1133
T15	60 - 40	6.604	6	0.3418	0.0895
T16	40 - 20	4.913	6	0.4727	0.0790
T17	20 - 12	2.635	6	0.5865	0.0672
T18	12 - 6.6667	1.606	6	0.6154	0.0642
T19	6.6667 - 0	0.894	6	0.6273	0.0619

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
342.00	1105-1A	60	29.447	0.3814	1.2615	29013
338.00	MP-3E	60	29.172	0.3696	1.2490	20723
332.50	1105-1A	60	28.809	0.3593	1.2371	11972
330.00	Guy	60	28.653	0.3580	1.2347	12153
317.50	P-9A120GN	3	28.007	0.3790	1.2358	12437
317.00	3' Side Arm	3	27.984	0.3802	1.2351	12343
312.00	SHP-1AE	3	27.736	0.3921	1.2241	12518
308.00	P-9A72GN-S	3	27.522	0.4017	1.2087	12773
307.33	3" Dia 20' Omni	3	27.485	0.4034	1.2056	12817
305.50	3" Dia 20' Omni	3	27.381	0.4078	1.1962	12938
297.46	Guy	3	26.894	0.4275	1.1402	14150
295.50	3' Side Arm	3	26.768	0.4323	1.1232	14819
294.00	LeBlanc 10' Standoff (3)	3	26.669	0.4358	1.1096	15398
289.00	3" Dia 20' Omni	3	26.331	0.4466	1.0616	17704
288.00	1105-1A	3	26.262	0.4485	1.0518	18251
284.00	3" Dia 20' Omni	3	25.980	0.4552	1.0123	20811
279.00	1105-1A	3	25.617	0.4606	0.9654	21604
274.25	3" Dia 20' Omni	3	25.264	0.4626	0.9251	17648
274.00	SPD6-58	3	25.245	0.4627	0.9231	17455
270.10	Guy	3	24.945	0.4633	0.8929	14918
264.25	Pirod 4' Side Mount Standoff (1)	3	24.477	0.4652	0.8506	12248
262.00	Pirod 4' Side Mount Standoff (1)	3	24.290	0.4670	0.8351	11436
252.00	3" Dia 20' Omni	3	23.400	0.5073	0.7674	8297
251.00	P-9A72GN-S	3	23.304	0.5130	0.7608	8057
226.50	Site Pro LTF12-4126	3	20.489	0.6618	0.6000	8170
219.50	1105-1A	2	19.527	0.6911	0.5532	10104
213.00	15' OMNI	2	18.605	0.7083	0.5089	14697
209.00	MFF-950B	2	18.024	0.7120	0.4818	20704
208.00	2" Dia 8' Omni	2	17.878	0.7120	0.4752	23059
205.50	Pirod 6-8' Box Arm (1)	2	17.511	0.7104	0.4588	28683
204.00	Pirod 6-8' Box Arm (1)	2	17.291	0.7083	0.4491	25177
200.00	7770	2	16.703	0.6982	0.4244	17146
188.50	(2) AIR 21 B2A B4P	2	15.064	0.6344	0.3643	5888
186.50	Valmont 10' Wireless Frame (3)	2	14.798	0.6190	0.3560	5157
177.25	Guy	2	13.704	0.5375	0.3274	4006
169.50	(2) LPA-80080-4CF-EDIN w/MP	8	12.988	0.4638	0.3141	5537
168.00	Pirod 12' T-Frame Sector Mount (1)	8	12.866	0.4501	0.3119	5991
150.50	13' Diapole	8	11.625	0.3503	0.2713	14903
146.00	3" Dia 20' Omni	8	11.337	0.3396	0.2564	18382
138.50	Pirod 4' Side Mount Standoff (1)	7	10.887	0.3290	0.2322	28443
130.00	P-9A72GN-S	7	10.385	0.3211	0.2088	39543
123.50	HP2-18	7	9.996	0.3135	0.1930	28468
112.00	MTZ-940B	7	9.288	0.2878	0.1671	19196
106.50	HP2-18	7	8.961	0.2722	0.1556	11395
99.92	Guy	7	8.607	0.2551	0.1430	8277
90.00	1.9"x4' pipe mount	7	8.168	0.2406	0.1271	29442
36.00	SPD3-2.4NS	6	4.500	0.4985	0.0768	7493

Bolt Design Data

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt lb	Allowable Load lb	Ratio Load / Allowable	Allowable Ratio	Criteria
T1	330	Leg	A325N	1.1250	9	899.89	67096.30	0.013 ✔	1	Bolt Tension
T2	320	Leg	A325N	0.7500	5	1797.53	29820.60	0.060 ✔	1	Bolt Tension
T3	300	Leg	A325N	0.7500	5	2461.41	29820.60	0.083 ✔	1	Bolt Tension
T4	280	Leg	A325N	0.7500	5	4105.19	29820.60	0.138 ✔	1	Bolt Tension
T5	260	Leg	A325N	0.7500	5	4853.03	29820.60	0.163 ✔	1	Bolt Tension
T6	240	Leg	A325N	0.7500	5	4291.93	29820.60	0.144 ✔	1	Bolt Tension
T7	220	Leg	A325N	0.7500	5	4806.95	29820.60	0.161 ✔	1	Bolt Tension
T8	200	Leg	A325N	0.8750	5	11844.10	40589.10	0.292 ✔	1	Bolt Tension
T9	180	Leg	A325N	0.8750	5	8302.29	40589.10	0.205 ✔	1	Bolt Tension
		Torque Arm Top@177.25	A325N	1.0000	4	7112.14	63617.30	0.112 ✔	1	Bolt Shear
		Torque Arm Bottom@177.25	A325N	1.0000	4	5518.61	63617.30	0.087 ✔	1	Bolt Shear
T10	160	Leg	A325N	0.8750	5	7435.83	40589.10	0.183 ✔	1	Bolt Tension
T11	140	Leg	A325N	0.8750	5	7671.22	40589.10	0.189 ✔	1	Bolt Tension
T12	120	Leg	A325N	0.8750	5	8515.94	40589.10	0.210 ✔	1	Bolt Tension
T13	100	Leg	A325N	0.8750	5	8642.50	40589.10	0.213 ✔	1	Bolt Tension
T14	80	Leg	A325N	0.7500	5	9541.94	29820.60	0.320 ✔	1	Bolt Tension
T15	60	Leg	A325N	0.7500	5	9994.35	29820.60	0.335 ✔	1	Bolt Tension
T16	40	Leg	A325N	0.7500	5	10028.70	29820.60	0.336 ✔	1	Bolt Tension
T17	20	Leg	A325N	0.7500	5	9925.12	29820.60	0.333 ✔	1	Bolt Tension
T19	6.6667	Leg	A325N	1.7500	3	17916.90	162357.00	0.110 ✔	1	Bolt Tension

Guy Design Data

Section No.	Elevation ft	Size	Initial Tension lb	Breaking Load lb	Actual T_u lb	Allowable ϕT_n lb	Required S.F.	Actual S.F.
T1	330.00 (A) (1107)	11/16 BS	5800.00	57999.90	18744.20	34800.00	1.000	1.857 ✔
	330.00 (B) (1106)	11/16 BS	5800.00	57999.90	19968.90	34800.00	1.000	1.743 ✔
	330.00 (C) (1105)	11/16 BS	5800.00	57999.90	18666.60	34800.00	1.000	1.864 ✔
T3	297.46 (A) (1134)	9/16 BS	3800.00	38000.00	13296.20	22800.00	1.000	1.715 ✔
	297.46 (B) (1133)	9/16 BS	3800.00	38000.00	14084.60	22800.00	1.000	1.619 ✔
	297.46 (C) (1132)	9/16 BS	3800.00	38000.00	13254.90	22800.00	1.000	1.720 ✔
T4	270.10 (A) (1110)	13/16 BS	8000.00	79999.92	28543.50	48000.00	1.000	1.682 ✔
	270.10 (B) (1109)	13/16 BS	8000.00	79999.92	30075.70	48000.00	1.000	1.596 ✔
	270.10 (C)	13/16 BS	8000.00	79999.92	28504.30	48000.00	1.000	1.684 ✔

Section No.	Elevation ft	Size	Initial Tension lb	Breaking Load lb	Actual T_u lb	Allowable ϕT_n lb	Required S.F.	Actual S.F.
	(1108)							
T9	177.25 (A) (1123)	15/16 BS	10800.00	108000.22	32127.30	64800.00	1.000	2.017 ✔
	177.25 (A) (1124)	15/16 BS	10800.00	108000.22	33069.70	64800.00	1.000	1.959 ✔
	177.25 (B) (1117)	15/16 BS	10800.00	108000.22	36563.70	64800.00	1.000	1.772 ✔
	177.25 (B) (1118)	15/16 BS	10800.00	108000.22	35817.10	64800.00	1.000	1.809 ✔
	177.25 (C) (1111)	15/16 BS	10800.00	108000.22	32722.60	64800.00	1.000	1.980 ✔
	177.25 (C) (1112)	15/16 BS	10800.00	108000.22	32995.70	64800.00	1.000	1.964 ✔
T13	99.92 (A) (1131)	15/16 BS	10800.00	108000.22	30619.70	64800.00	1.000	2.116 ✔
	99.92 (B) (1130)	15/16 BS	10800.00	108000.22	34123.80	64800.00	1.000	1.899 ✔
	99.92 (C) (1129)	15/16 BS	10800.00	108000.22	31187.40	64800.00	1.000	2.078 ✔

Compression Checks

Leg Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
L1	345 - 330	1 1/4	15.00	1.50	57.6 K=1.00	1.2272	-7025.09	43328.00	0.162 [1] ✔
T1	330 - 320	2 1/4	10.00	2.43	51.8 K=1.00	3.9761	-24296.90	147000.00	0.165 [1] ✔
T2	320 - 300	2 1/4	20.00	2.45	52.4 K=1.00	3.9761	-29366.90	146416.00	0.201 [1] ✔
T3	300 - 280	2 1/4	20.00	2.45	52.4 K=1.00	3.9761	-40545.00	146416.00	0.277 [1] ✔
T4	280 - 260	2 1/4	20.00	2.45	52.4 K=1.00	3.9761	-61577.80	146416.00	0.421 [1] ✔
T5	260 - 240	2 1/4	20.00	2.45	52.4 K=1.00	3.9761	-72795.50	146416.00	0.497 [1] ✔
T6	240 - 220	2 1/4	20.00	2.45	52.4 K=1.00	3.9761	-72796.20	146416.00	0.497 [1] ✔
T7	220 - 200	2 1/2	20.00	2.44	46.9 K=1.00	4.9087	-72104.20	188051.00	0.383 [1] ✔
T8	200 - 180	2 3/4	20.00	2.44	42.7 K=1.00	5.9396	-146810.00	233988.00	0.627 [1] ✔
T9	180 - 160	2 3/4	20.00	2.44	42.7 K=1.00	5.9396	-166757.00	233988.00	0.713 [1] ✔
T10	160 - 140	2 3/4	20.00	2.44	42.7 K=1.00	5.9396	-124536.00	233988.00	0.532 [1] ✔

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T11	140 - 120	2 3/4	20.00	2.44	42.7 K=1.00	5.9396	-115068.00	233988.00	0.492 [1] ✔
T12	120 - 100	2 3/4	20.00	2.44	42.7 K=1.00	5.9396	-127739.00	233988.00	0.546 [1] ✔
T13	100 - 80	2 3/4	20.00	2.44	42.7 K=1.00	5.9396	-132427.00	233988.00	0.566 [1] ✔
T14	80 - 60	2 3/4	20.00	2.44	42.7 K=1.00	5.9396	-143129.00	233988.00	0.612 [1] ✔
T15	60 - 40	2 3/4	20.00	2.44	42.7 K=1.00	5.9396	-149915.00	233988.00	0.641 [1] ✔
T16	40 - 20	2 3/4	20.00	2.44	42.7 K=1.00	5.9396	-151234.00	233988.00	0.646 [1] ✔
T17	20 - 12	2 3/4	8.00	2.61	45.6 K=1.00	5.9396	-150424.00	229620.00	0.655 [1] ✔
T18	12 - 6.6667	2 3/4	5.33	2.58	33.8 K=0.75	5.9396	-148897.00	245840.00	0.606 [1] ✔
T19	6.6667 - 0	2 3/4	7.26	1.09	19.0 K=1.00	5.9396	-163335.00	260303.00	0.627 [1] ✔

[1] P_u / ϕP_n controls

Diagonal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
L1	345 - 330	1/2	2.92	1.40	120.7 K=0.90	0.1963	-1038.26	3044.74	0.341 [1] ✔
T1	330 - 320	7/8	5.56	2.68	132.1 K=0.90	0.6013	-1674.82	7785.95	0.215 [1] ✔
T2	320 - 300	7/8	5.57	2.68	132.3 K=0.90	0.6013	-2355.95	7755.94	0.304 [1] ✔
T3	300 - 280	7/8	5.57	2.68	132.3 K=0.90	0.6013	-3639.87	7755.94	0.469 [1] ✔
T4	280 - 260	1	5.57	2.68	115.8 K=0.90	0.7854	-4212.84	13231.30	0.318 [1] ✔
T5	260 - 240	1	5.57	2.68	115.8 K=0.90	0.7854	-3713.41	13231.30	0.281 [1] ✔
T6	240 - 220	1	5.57	2.68	115.8 K=0.90	0.7854	-4105.97	13231.30	0.310 [1] ✔
T7	220 - 200	1	5.57	2.67	115.2 K=0.90	0.7854	-6044.83	13369.70	0.452 [1] ✔
T8	200 - 180	1 1/4	5.57	2.66	101.0 K=0.99	1.2272	-10309.70	26209.70	0.393 [1] ✔
T9	180 - 160	1 1/4	5.57	2.66	101.0 K=0.99	1.2272	-7299.90	26209.70	0.279 [1] ✔
T10	160 - 140	1	5.57	2.66	114.7 K=0.90	0.7854	-4961.83	13486.70	0.368 [1] ✔
T11	140 - 120	1	5.57	2.66	114.7 K=0.90	0.7854	-2530.24	13486.70	0.188 [1]

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T12	120 - 100	1	5.57	2.66	114.7 K=0.90	0.7854	-4153.71	13486.70	0.308 [1]
T13	100 - 80	1	5.57	2.66	114.7 K=0.90	0.7854	-5493.66	13486.70	0.407 [1]
T14	80 - 60	1	5.57	2.66	114.7 K=0.90	0.7854	-4118.91	13486.70	0.305 [1]
T15	60 - 40	1	5.57	2.66	114.7 K=0.90	0.7854	-1932.05	13486.70	0.143 [1]
T16	40 - 20	1	5.57	2.66	114.7 K=0.90	0.7854	-3155.94	13486.70	0.234 [1]
T17	20 - 12	1 1/4	5.64	2.69	101.6 K=0.98	1.2272	-4944.42	25956.70	0.190 [1]
T18	12 - 6.6667	1 1/4	3.59	3.43	92.2 K=0.70	1.2272	-4486.96	29659.70	0.151 [1]
T19	6.6667 - 0	1 1/4	1.91	1.18	49.9 K=1.10	1.2272	-13364.90	46015.40	0.290 [1]

[1] P_u / ϕP_n controls

K-Brace Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
L1	345 - 330	1/2	1.89	1.81	121.7 K=0.70	0.1963	-24.84	2996.38	0.008 [1]

[1] P_u / ϕP_n controls

Horizontal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T18	12 - 6.6667	6x3/4	5.00	2.39	132.2 K=1.00	4.5000	-2578.97	58090.00	0.044 [1]

[1] P_u / ϕP_n controls

Secondary Horizontal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T19	6.6667 - 0	7/8	4.35	4.12	158.3 K=0.70	0.6013	-2995.03	5419.93	0.553 [1] ✔

[1] P_u / ϕP_n controls

Top Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
L1	345 - 330	3/4	2.50	2.40	86.3 K=0.56	0.4418	-3.34	11539.90	0.000 [1] ✔
T1	330 - 320	6x3/4	5.00	4.81	266.7 K=1.00	4.5000	-0.27	14288.60	0.000 [1] ✔
		KL/R > 200 (C) - 73							
T2	320 - 300	1	5.00	4.81	161.7 K=0.70	0.7854	-193.80	6785.94	0.029 [1] ✔
T3	300 - 280	1	5.00	4.81	161.7 K=0.70	0.7854	-1042.08	6785.94	0.154 [1] ✔
T4	280 - 260	1	5.00	4.81	161.7 K=0.70	0.7854	-223.56	6785.94	0.033 [1] ✔
T5	260 - 240	1	5.00	4.81	161.7 K=0.70	0.7854	-38.44	6785.94	0.006 [1] ✔
T6	240 - 220	1	5.00	4.81	161.7 K=0.70	0.7854	-38.13	6785.94	0.006 [1] ✔
T7	220 - 200	1 1/4	5.00	4.79	128.8 K=0.70	1.2272	-501.23	16711.60	0.030 [1] ✔
T8	200 - 180	1 1/2	5.00	4.77	106.9 K=0.70	1.7672	-1186.36	34501.20	0.034 [1] ✔
T9	180 - 160	1 1/2	5.00	4.77	106.9 K=0.70	1.7672	-9397.66	34501.20	0.272 [1] ✔
T10	160 - 140	1 1/4	5.00	4.77	128.2 K=0.70	1.2272	-604.09	16857.90	0.036 [1] ✔
T11	140 - 120	1 1/4	5.00	4.77	128.2 K=0.70	1.2272	-43.90	16857.90	0.003 [1] ✔
T14	80 - 60	1 1/4	5.00	4.77	128.2 K=0.70	1.2272	-143.02	16857.90	0.008 [1] ✔

[1] P_u / ϕP_n controls

Bottom Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	330 - 320	1	5.00	4.81	161.7 K=0.70	0.7854	-210.72	6785.94	0.031 [1] ✔

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T2	320 - 300	1	5.00	4.81	161.7 K=0.70	0.7854	-810.58	6785.94	0.119 [1] ✔
T3	300 - 280	1	5.00	4.81	161.7 K=0.70	0.7854	-109.18	6785.94	0.016 [1] ✔
T4	280 - 260	1	5.00	4.81	161.7 K=0.70	0.7854	-255.16	6785.94	0.038 [1] ✔
T5	260 - 240	1	5.00	4.81	161.7 K=0.70	0.7854	-62.74	6785.94	0.009 [1] ✔
T6	240 - 220	1	5.00	4.81	161.7 K=0.70	0.7854	-202.17	6785.94	0.030 [1] ✔
T7	220 - 200	1 1/4	5.00	4.79	128.8 K=0.70	1.2272	-808.03	16711.60	0.048 [1] ✔
T8	200 - 180	1 1/2	5.00	4.77	106.9 K=0.70	1.7672	-6047.44	34501.20	0.175 [1] ✔
T9	180 - 160	1 1/2	5.00	4.77	106.9 K=0.70	1.7672	-229.91	34501.20	0.007 [1] ✔
T13	100 - 80	1 1/4	5.00	4.77	128.2 K=0.70	1.2272	-372.46	16857.90	0.022 [1] ✔
T14	80 - 60	1 1/4	5.00	4.77	128.2 K=0.70	1.2272	-98.47	16857.90	0.006 [1] ✔

[1] P_u / ϕP_n controls

Mid Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
L1	345 - 330	3/4	2.50	2.40	107.3 K=0.70	0.4418	-61.52	8562.48	0.007 [1] ✔
T1	330 - 320	1	5.00	4.81	161.7 K=0.70	0.7854	-60.36	6785.94	0.009 [1] ✔
T3	300 - 280	1	5.00	4.81	161.7 K=0.70	0.7854	-179.12	6785.94	0.026 [1] ✔
T5	260 - 240	1	5.00	4.81	161.7 K=0.70	0.7854	-137.65	6785.94	0.020 [1] ✔
T8	200 - 180	1 1/2	5.00	4.77	106.9 K=0.70	1.7672	-183.27	34501.20	0.005 [1] ✔
T9	180 - 160	1 1/2	5.00	4.77	106.9 K=0.70	1.7672	-42.72	34501.20	0.001 [1] ✔

[1] P_u / ϕP_n controls

Torque-Arm Bottom Design Data

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T9	180 - 160 (1115)	2L4x4x3/8	4.61	4.48	32.8 K=0.75	5.7200	-17805.50	175132.00	0.102 [1] ✔
T9	180 - 160 (1116)	2L4x4x3/8	4.61	4.48	32.8 K=0.75	5.7200	-17236.10	175132.00	0.098 [1] ✔
T9	180 - 160 (1121)	2L4x4x3/8	4.61	4.48	32.8 K=0.75	5.7200	-21704.00	175132.00	0.124 [1] ✔
T9	180 - 160 (1122)	2L4x4x3/8	4.61	4.48	32.8 K=0.75	5.7200	-17978.50	175132.00	0.103 [1] ✔
T9	180 - 160 (1127)	2L4x4x3/8	4.61	4.48	32.8 K=0.75	5.7200	-22074.40	175132.00	0.126 [1] ✔
T9	180 - 160 (1128)	2L4x4x3/8	4.61	4.48	32.8 K=0.75	5.7200	-17799.90	175132.00	0.102 [1] ✔

[1] P_u / ϕP_n controls

Tension Checks

Leg Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
L1	345 - 330	1 1/4	15.00	1.50	57.6	1.2272	6412.17	55223.30	0.116 [1] ✔
T1	330 - 320	2 1/4	10.00	2.43	51.8	3.9761	4788.09	178924.00	0.027 [1] ✔
T2	320 - 300	2 1/4	20.00	2.45	52.4	3.9761	9647.88	178924.00	0.054 [1] ✔
T3	300 - 280	2 1/4	20.00	2.45	52.4	3.9761	7074.46	178924.00	0.040 [1] ✔
T4	280 - 260	2 1/4	20.00	2.45	52.4	3.9761	182.85	178924.00	0.001 [1] ✔
T5	260 - 240	2 1/4	20.00	2.45	52.4	3.9761	9304.08	178924.00	0.052 [1] ✔
T6	240 - 220	2 1/4	20.00	2.45	52.4	3.9761	9156.64	178924.00	0.051 [1] ✔
T8	200 - 180	2 3/4	20.00	2.44	42.7	5.9396	59220.30	267281.00	0.222 [1] ✔
T9	180 - 160	2 3/4	20.00	2.44	42.7	5.9396	59214.90	267281.00	0.222 [1] ✔

[1] P_u / ϕP_n controls

Diagonal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
L1	345 - 330	1/2	2.92	1.40	134.1	0.1963	1037.75	8835.73	0.117 [1] ✔
T1	330 - 320	7/8	5.56	2.68	146.8	0.6013	1643.16	27059.40	0.061 [1] ✔
T2	320 - 300	7/8	5.57	2.68	147.0	0.6013	2207.55	27059.40	0.082 [1] ✔
T3	300 - 280	7/8	5.57	2.68	147.0	0.6013	4313.06	27059.40	0.159 [1] ✔
T4	280 - 260	1	5.57	2.68	128.7	0.7854	4404.10	35342.90	0.125 [1] ✔
T5	260 - 240	1	5.57	2.68	128.7	0.7854	3496.27	35342.90	0.099 [1] ✔
T6	240 - 220	1	5.57	2.68	128.7	0.7854	3816.82	35342.90	0.108 [1] ✔
T7	220 - 200	1	5.57	2.67	128.0	0.7854	5736.18	35342.90	0.162 [1] ✔
T8	200 - 180	1 1/4	5.57	2.66	102.0	1.2272	9906.28	55223.30	0.179 [1] ✔
T9	180 - 160	1 1/4	5.57	2.66	102.0	1.2272	7041.64	55223.30	0.128 [1] ✔
T10	160 - 140	1	5.57	2.66	127.4	0.7854	4415.26	35342.90	0.125 [1] ✔
T11	140 - 120	1	5.57	2.66	127.4	0.7854	1978.11	35342.90	0.056 [1] ✔
T12	120 - 100	1	5.57	2.66	127.4	0.7854	3588.07	35342.90	0.102 [1] ✔
T13	100 - 80	1	5.57	2.66	127.4	0.7854	5482.38	35342.90	0.155 [1] ✔
T14	80 - 60	1	5.57	2.66	127.4	0.7854	3422.57	35342.90	0.097 [1] ✔
T15	60 - 40	1	5.57	2.66	127.4	0.7854	1296.72	35342.90	0.037 [1] ✔
T16	40 - 20	1	5.57	2.66	127.4	0.7854	2481.54	35342.90	0.070 [1] ✔
T17	20 - 12	1 1/4	5.64	2.69	103.3	1.2272	2245.75	55223.30	0.041 [1] ✔
T18	12 - 6.6667	1 1/4	3.59	3.43	131.7	1.2272	4551.80	55223.30	0.082 [1] ✔
T19	6.6667 - 0	1 1/4	4.64	2.43	93.2	1.2272	858.55	55223.30	0.016 [1] ✔

[1] P_u / ϕP_n controls

K-Brace Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
L1	345 - 330	1/2	1.89	1.81	173.8	0.1963	2.53	8835.73	0.000 [1]

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
									✔

[1] P_u / ϕP_n controls

Horizontal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T17	20 - 12	7/8	5.00	4.77	261.7	0.6013	3495.11	27059.40	0.129 [1] ✔
T18	12 - 6.6667	6x3/4	5.00	2.39	132.2	4.5000	18915.00	145800.00	0.130 [1] ✔

[1] P_u / ϕP_n controls

Secondary Horizontal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T19	6.6667 - 0	7/8	1.06	0.83	45.5	0.6013	4242.52	27059.40	0.157 [1] ✔

[1] P_u / ϕP_n controls

Top Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
L1	345 - 330	3/4	2.50	2.40	153.3	0.4418	3.42	19880.40	0.000 [1] ✔
T1	330 - 320	6x3/4	5.00	4.81	266.7	4.5000	0.27	145800.00	0.000 [1] ✔
T2	320 - 300	1	5.00	4.81	231.0	0.7854	229.14	35342.90	0.006 [1] ✔
T4	280 - 260	1	5.00	4.81	231.0	0.7854	570.79	35342.90	0.016 [1] ✔
T5	260 - 240	1	5.00	4.81	231.0	0.7854	471.98	35342.90	0.013 [1] ✔
T6	240 - 220	1	5.00	4.81	231.0	0.7854	325.94	35342.90	0.009 [1] ✔

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T7	220 - 200	1 1/4	5.00	4.79	184.0	1.2272	878.05	55223.30	0.016 [1] ✔
T8	200 - 180	1 1/2	5.00	4.77	152.7	1.7672	1644.44	79521.60	0.021 [1] ✔
T9	180 - 160	1 1/2	5.00	4.77	152.7	1.7672	7458.83	79521.60	0.094 [1] ✔
T10	160 - 140	1 1/4	5.00	4.77	183.2	1.2272	1075.12	55223.30	0.019 [1] ✔
T11	140 - 120	1 1/4	5.00	4.77	183.2	1.2272	638.33	55223.30	0.012 [1] ✔
T12	120 - 100	1 1/4	5.00	4.77	183.2	1.2272	552.89	55223.30	0.010 [1] ✔
T13	100 - 80	1 1/4	5.00	4.77	183.2	1.2272	10052.30	55223.30	0.182 [1] ✔
T14	80 - 60	1 1/4	5.00	4.77	183.2	1.2272	871.96	55223.30	0.016 [1] ✔
T15	60 - 40	1 1/4	5.00	4.77	183.2	1.2272	642.20	55223.30	0.012 [1] ✔
T16	40 - 20	1 1/4	5.00	4.77	183.2	1.2272	792.69	55223.30	0.014 [1] ✔
T17	20 - 12	7/8	5.00	4.77	261.7	0.6013	1527.32	27059.40	0.056 [1] ✔
T19	6.6667 - 0	6x3/4	4.94	4.71	261.0	4.5000	17003.20	145800.00	0.117 [1] ✔

[1] P_u / ϕP_n controls

Bottom Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	330 - 320	1	5.00	4.81	231.0	0.7854	301.61	35342.90	0.009 [1] ✔
T2	320 - 300	1	5.00	4.81	231.0	0.7854	31.95	35342.90	0.001 [1] ✔
T3	300 - 280	1	5.00	4.81	231.0	0.7854	390.71	35342.90	0.011 [1] ✔
T4	280 - 260	1	5.00	4.81	231.0	0.7854	714.74	35342.90	0.020 [1] ✔
T5	260 - 240	1	5.00	4.81	231.0	0.7854	309.76	35342.90	0.009 [1] ✔
T6	240 - 220	1	5.00	4.81	231.0	0.7854	424.18	35342.90	0.012 [1] ✔
T7	220 - 200	1 1/4	5.00	4.79	184.0	1.2272	1071.04	55223.30	0.019 [1] ✔
T8	200 - 180	1 1/2	5.00	4.77	152.7	1.7672	5943.93	79521.60	0.075 [1] ✔
T9	180 - 160	1 1/2	5.00	4.77	152.7	1.7672	1073.72	79521.60	0.014 [1] ✔

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T10	160 - 140	1 1/4	5.00	4.77	183.2	1.2272	670.95	55223.30	0.012 [1]
T11	140 - 120	1 1/4	5.00	4.77	183.2	1.2272	591.60	55223.30	0.011 [1]
T12	120 - 100	1 1/4	5.00	4.77	183.2	1.2272	2673.36	55223.30	0.048 [1]
T13	100 - 80	1 1/4	5.00	4.77	183.2	1.2272	1154.54	55223.30	0.021 [1]
T14	80 - 60	1 1/4	5.00	4.77	183.2	1.2272	890.05	55223.30	0.016 [1]
T15	60 - 40	1 1/4	5.00	4.77	183.2	1.2272	682.91	55223.30	0.012 [1]
T16	40 - 20	1 1/4	5.00	4.77	183.2	1.2272	1477.73	55223.30	0.027 [1]
T19	6.6667 - 0	6x3/4	0.75	0.52	28.9	4.5000	9078.37	145800.00	0.062 [1]

[1] P_u / ϕP_n controls

Mid Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
L1	345 - 330	3/4	2.50	2.40	153.3	0.4418	111.60	19880.40	0.006 [1]
T1	330 - 320	1	5.00	4.81	231.0	0.7854	183.27	35342.90	0.005 [1]
T2	320 - 300	1	5.00	4.81	231.0	0.7854	117.13	35342.90	0.003 [1]
T4	280 - 260	1	5.00	4.81	231.0	0.7854	6671.93	35342.90	0.189 [1]
T5	260 - 240	1	5.00	4.81	231.0	0.7854	630.26	35342.90	0.018 [1]
T6	240 - 220	1	5.00	4.81	231.0	0.7854	437.85	35342.90	0.012 [1]
T7	220 - 200	1 1/4	5.00	4.79	184.0	1.2272	559.37	55223.30	0.010 [1]
T8	200 - 180	1 1/2	5.00	4.77	152.7	1.7672	898.40	79521.60	0.011 [1]
T9	180 - 160	1 1/2	5.00	4.77	152.7	1.7672	1668.68	79521.60	0.021 [1]
T10	160 - 140	1 1/4	5.00	4.77	183.2	1.2272	988.53	55223.30	0.018 [1]
T11	140 - 120	1 1/4	5.00	4.77	183.2	1.2272	945.55	55223.30	0.017 [1]
T12	120 - 100	1 1/4	5.00	4.77	183.2	1.2272	1102.41	55223.30	0.020 [1]

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T13	100 - 80	1 1/4	5.00	4.77	183.2	1.2272	1132.32	55223.30	0.021 [1] ✔
T14	80 - 60	1 1/4	5.00	4.77	183.2	1.2272	1178.81	55223.30	0.021 [1] ✔
T15	60 - 40	1 1/4	5.00	4.77	183.2	1.2272	1252.23	55223.30	0.023 [1] ✔
T16	40 - 20	1 1/4	5.00	4.77	183.2	1.2272	1309.26	55223.30	0.024 [1] ✔
T19	6.6667 - 0	6x3/4	2.84	2.61	144.9	4.5000	2862.64	145800.00	0.020 [1] ✔

[1] P_u / ϕP_n controls

Torque-Arm Top Design Data

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T9	180 - 160 (1113)	2L4x4x3/8	4.84	4.70	45.9	5.7200	27396.70	185328.00	0.148 [1] ✔
T9	180 - 160 (1114)	2L4x4x3/8	4.84	4.70	45.9	5.7200	25146.30	185328.00	0.136 [1] ✔
T9	180 - 160 (1119)	2L4x4x3/8	4.84	4.70	45.9	5.7200	27955.60	185328.00	0.151 [1] ✔
T9	180 - 160 (1120)	2L4x4x3/8	4.84	4.70	45.9	5.7200	27823.30	185328.00	0.150 [1] ✔
T9	180 - 160 (1125)	2L4x4x3/8	4.84	4.70	45.9	5.7200	28448.50	185328.00	0.154 [1] ✔
T9	180 - 160 (1126)	2L4x4x3/8	4.84	4.70	45.9	5.7200	25625.70	185328.00	0.138 [1] ✔

[1] P_u / ϕP_n controls

Torque-Arm Bottom Design Data

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T9	180 - 160 (1115)	2L4x4x3/8	4.61	4.48	43.7	5.7200	6539.11	185328.00	0.035 [1] ✔
T9	180 - 160 (1116)	2L4x4x3/8	4.61	4.48	43.7	5.7200	6492.50	185328.00	0.035 [1] ✔
T9	180 - 160 (1121)	2L4x4x3/8	4.61	4.48	43.7	5.7200	5964.13	185328.00	0.032 [1] ✔
T9	180 - 160 (1122)	2L4x4x3/8	4.61	4.48	43.7	5.7200	5482.93	185328.00	0.030 [1] ✔
T9	180 - 160	2L4x4x3/8	4.61	4.48	43.7	5.7200	6838.52	185328.00	0.037 [1]

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T9	(1127) 180 - 160 (1128)	2L4x4x3/8	4.61	4.48	43.7	5.7200	6391.34	185328.00	✔ 0.034 [1] ✔

[1] P_u / ϕP_n controls

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail
L1	345 - 330	Latticed Pole Leg	1 1/4	2	-7025.09	43328.00	16.2	Pass
		Latticed Pole Diagonal	1/2	10	-1038.26	3044.74	34.1	Pass
		Latticed Pole K-Brace	1/2	64	-24.84	2996.38	0.8	Pass
		Latticed Pole Top Girt	3/4	6	-3.17	11539.90	0.1	Pass
		Latticed Pole Mid Girt	3/4	9	-61.52	8562.48	0.7	Pass
T1	330 - 320	Leg	2 1/4	71	-24296.90	147000.00	16.5	Pass
		Diagonal	7/8	104	-1674.82	7785.95	21.5	Pass
		Top Girt	6x3/4	73	-0.27	14288.60	0.1	Pass
		Bottom Girt	1	78	-210.72	6785.94	3.1	Pass
		Mid Girt	1	81	-60.36	6785.94	0.9	Pass
		Guy A@330	11/16	1107	18744.20	34800.00	53.9	Pass
		Guy B@330	11/16	1106	19968.90	34800.00	57.4	Pass
		Guy C@330	11/16	1105	18666.60	34800.00	53.6	Pass
T2	320 - 300	Leg	2 1/4	107	-29366.90	146416.00	20.1	Pass
		Diagonal	7/8	118	-2355.95	7755.94	30.4	Pass
		Top Girt	1	110	-193.80	6785.94	2.9	Pass
		Bottom Girt	1	114	-810.58	6785.94	11.9	Pass
		Mid Girt	1	115	117.13	35342.90	0.3	Pass
T3	300 - 280	Leg	2 1/4	167	-40545.00	146416.00	27.7	Pass
		Diagonal	7/8	178	-3639.87	7755.94	46.9	Pass
		Top Girt	1	170	-1042.08	6785.94	15.4	Pass
		Bottom Girt	1	174	-109.18	6785.94	1.6	Pass
		Mid Girt	1	177	-179.12	6785.94	2.6	Pass
		Guy A@297.462	9/16	1134	13296.20	22800.00	58.3	Pass
		Guy B@297.462	9/16	1133	14084.60	22800.00	61.8	Pass
		Guy C@297.462	9/16	1132	13254.90	22800.00	58.1	Pass
T4	280 - 260	Leg	2 1/4	227	-61577.80	146416.00	42.1	Pass
		Diagonal	1	253	-4212.84	13231.30	31.8	Pass
		Top Girt	1	231	-223.56	6785.94	3.3	Pass
		Bottom Girt	1	234	-255.16	6785.94	3.8	Pass
		Mid Girt	1	237	6671.93	35342.90	18.9	Pass
		Guy A@270.098	13/16	1110	28543.50	48000.00	59.5	Pass
		Guy B@270.098	13/16	1109	30075.70	48000.00	62.7	Pass
		Guy C@270.098	13/16	1108	28504.30	48000.00	59.4	Pass
T5	260 - 240	Leg	2 1/4	287	-72795.50	146416.00	49.7	Pass
		Diagonal	1	343	-3713.41	13231.30	28.1	Pass
		Top Girt	1	289	471.98	35342.90	1.3	Pass
		Bottom Girt	1	292	-62.74	6785.94	0.9	Pass
		Mid Girt	1	297	-137.65	6785.94	2.0	Pass
T6	240 - 220	Leg	2 1/4	347	-72796.20	146416.00	49.7	Pass
		Diagonal	1	358	-4105.97	13231.30	31.0	Pass

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	$øP_{allow}$ lb	% Capacity	Pass Fail
		Top Girt	1	349	325.94	35342.90	0.9	Pass
		Bottom Girt	1	354	-202.17	6785.94	3.0	Pass
		Mid Girt	1	355	437.85	35342.90	1.2	Pass
T7	220 - 200	Leg	2 1/2	407	-72104.20	188051.00	38.3	Pass
		Diagonal	1	418	-6044.83	13369.70	45.2	Pass
		Top Girt	1 1/4	411	-501.23	16711.60	3.0	Pass
		Bottom Girt	1 1/4	412	-808.03	16711.60	4.8	Pass
		Mid Girt	1 1/4	415	559.37	55223.30	1.0	Pass
T8	200 - 180	Leg	2 3/4	466	-146810.00	233988.00	62.7	Pass
		Diagonal	1 1/4	478	-10309.70	26209.70	39.3	Pass
		Top Girt	1 1/2	471	-1186.36	34501.20	3.4	Pass
		Bottom Girt	1 1/2	472	-6047.44	34501.20	17.5	Pass
		Mid Girt	1 1/2	477	898.40	79521.60	1.1	Pass
T9	180 - 160	Leg	2 3/4	526	-166757.00	233988.00	71.3	Pass
		Diagonal	1 1/4	564	-7299.90	26209.70	27.9	Pass
		Top Girt	1 1/2	529	-9397.66	34501.20	27.2	Pass
		Bottom Girt	1 1/2	532	1073.72	79521.60	1.4	Pass
		Mid Girt	1 1/2	535	1668.68	79521.60	2.1	Pass
		Guy A@177.25	15/16	1124	33069.70	64800.00	51.0	Pass
		Guy B@177.25	15/16	1117	36563.70	64800.00	56.4	Pass
		Guy C@177.25	15/16	1112	32995.70	64800.00	50.9	Pass
		Torque Arm Top@177.25	2L4x4x3/8	1125	28448.50	185328.00	15.4	Pass
		Torque Arm Bottom@177.25	2L4x4x3/8	1127	-22074.40	175132.00	12.6	Pass
T10	160 - 140	Leg	2 3/4	586	-124536.00	233988.00	53.2	Pass
		Diagonal	1	642	-4961.83	13486.70	36.8	Pass
		Top Girt	1 1/4	591	-604.09	16857.90	3.6	Pass
		Bottom Girt	1 1/4	592	670.95	55223.30	1.2	Pass
		Mid Girt	1 1/4	597	988.53	55223.30	1.8	Pass
T11	140 - 120	Leg	2 3/4	646	-115068.00	233988.00	49.2	Pass
		Diagonal	1	702	-2530.24	13486.70	18.8	Pass
		Top Girt	1 1/4	651	638.33	55223.30	1.2	Pass
		Bottom Girt	1 1/4	654	591.60	55223.30	1.1	Pass
		Mid Girt	1 1/4	655	945.55	55223.30	1.7	Pass
T12	120 - 100	Leg	2 3/4	708	-127739.00	233988.00	54.6	Pass
		Diagonal	1	718	-4153.71	13486.70	30.8	Pass
		Top Girt	1 1/4	709	552.89	55223.30	1.0	Pass
		Bottom Girt	1 1/4	712	2673.36	55223.30	4.8	Pass
		Mid Girt	1 1/4	717	1102.41	55223.30	2.0	Pass
T13	100 - 80	Leg	2 3/4	768	-132427.00	233988.00	56.6	Pass
		Diagonal	1	816	-5493.66	13486.70	40.7	Pass
		Top Girt	1 1/4	769	10052.30	55223.30	18.2	Pass
		Bottom Girt	1 1/4	773	-372.46	16857.90	2.2	Pass
		Mid Girt	1 1/4	776	1132.32	55223.30	2.1	Pass
		Guy A@99.9167	15/16	1131	30619.70	64800.00	47.3	Pass
		Guy B@99.9167	15/16	1130	34123.80	64800.00	52.7	Pass
		Guy C@99.9167	15/16	1129	31187.40	64800.00	48.1	Pass
T14	80 - 60	Leg	2 3/4	827	-143129.00	233988.00	61.2	Pass
		Diagonal	1	882	-4118.91	13486.70	30.5	Pass
		Top Girt	1 1/4	831	871.96	55223.30	1.6	Pass
		Bottom Girt	1 1/4	832	890.05	55223.30	1.6	Pass
		Mid Girt	1 1/4	836	1178.81	55223.30	2.1	Pass
T15	60 - 40	Leg	2 3/4	887	-149915.00	233988.00	64.1	Pass
		Diagonal	1	942	-1932.05	13486.70	14.3	Pass
		Top Girt	1 1/4	891	642.20	55223.30	1.2	Pass
		Bottom Girt	1 1/4	892	682.91	55223.30	1.2	Pass
		Mid Girt	1 1/4	896	1252.23	55223.30	2.3	Pass
T16	40 - 20	Leg	2 3/4	947	-151234.00	233988.00	64.6	Pass
		Diagonal	1	958	-3155.94	13486.70	23.4	Pass
		Top Girt	1 1/4	949	792.69	55223.30	1.4	Pass

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	$øP_{allow}$ lb	% Capacity	Pass Fail
		Bottom Girt	1 1/4	952	1477.73	55223.30	2.7	Pass
		Mid Girt	1 1/4	956	1309.26	55223.30	2.4	Pass
T17	20 - 12	Leg	2 3/4	1007	-150424.00	229620.00	65.5	Pass
		Diagonal	1 1/4	1012	-4944.42	25956.70	19.0	Pass
		Horizontal	7/8	1019	3495.11	27059.40	12.9	Pass
		Top Girt	7/8	1010	1527.32	27059.40	5.6	Pass
T18	12 - 6.6667	Leg	2 3/4	1037	-148897.00	245840.00	60.6	Pass
		Diagonal	1 1/4	1041	-4486.96	29659.70	15.1	Pass
		Horizontal	6x3/4	1039	18915.00	145800.00	13.0	Pass
T19	6.6667 - 0	Leg	2 3/4	1058	-163335.00	260303.00	62.7	Pass
		Diagonal	1 1/4	1069	-13364.90	46015.40	29.0	Pass
		Secondary Horizontal	7/8	1102	-2995.03	5419.93	55.3	Pass
		Top Girt	6x3/4	1061	17003.20	145800.00	11.7	Pass
		Bottom Girt	6x3/4	1064	9078.37	145800.00	6.2	Pass
		Mid Girt	6x3/4	1067	2862.64	145800.00	2.0	Pass
							Summary	
						Latticed Pole Leg (L1)	16.2	Pass
						Latticed Pole Diagonal (L1)	34.1	Pass
						Latticed Pole K-Brace (L1)	0.8	Pass
						Latticed Pole Top Girt (L1)	0.1	Pass
						Latticed Pole Mid Girt (L1)	0.7	Pass
						Leg (T9)	71.3	Pass
						Diagonal (T3)	46.9	Pass
						Horizontal (T18)	13.0	Pass
						Secondary Horizontal (T19)	55.3	Pass
						Top Girt (T9)	27.2	Pass
						Bottom Girt (T8)	17.5	Pass
						Mid Girt (T4)	18.9	Pass
						Guy A (T4)	59.5	Pass
						Guy B (T4)	62.7	Pass
						Guy C (T4)	59.4	Pass
						Torque Arm Top (T9)	15.4	Pass
						Torque Arm Bottom (T9)	12.6	Pass
						Bolt Checks	33.6	Pass
						RATING =	**71.3**	**Pass**