EAST KENTUCKY NETWORK
101 TECHNOLOGY TRAIL
IVEL, KY 41642
PHONE: (606) 874-7550
FAX: (606) 874-7551

EAST KENTUCKY NETWORK

April 25, 2016

Moore Country 104, LLC
d/b/a WSKV
28 West Halls Road
Stanton, KY 40380

To whom it may concern:

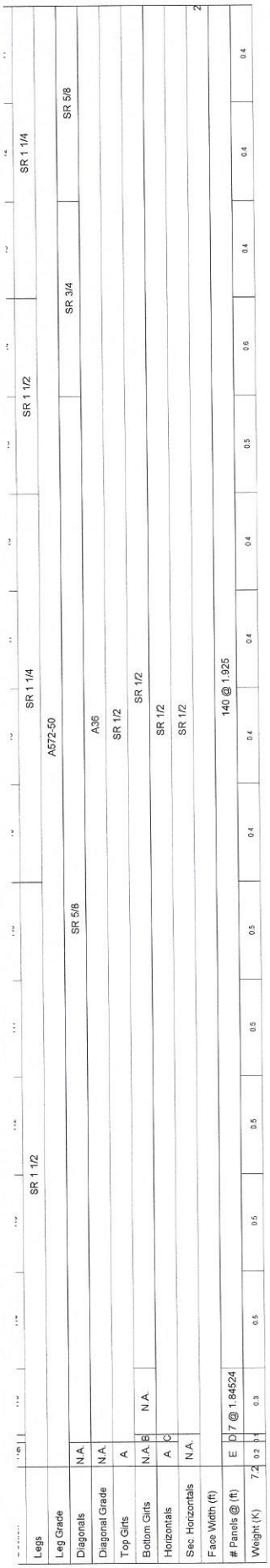
Please find enclosed a structural analysis for the cellular tower located at Furnace Mountain, Stanton, Powell County. We are providing the structural analysis after all alterations and additional equipment have been added per our previous agreement.

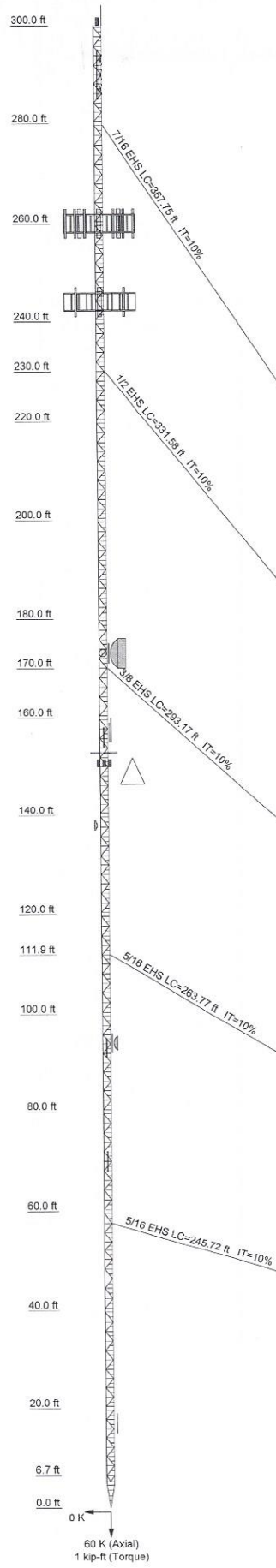
If you have any questions for East Kentucky Network, LLC, please direct them to my attention at the following address: East Kentucky Network, LLC, 101 Technology Trail, Ivel, KY 41642 or call me at 606-477-2355, Ext. 1005.

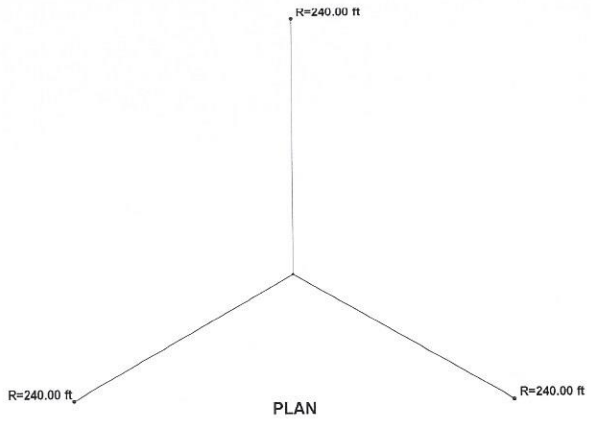
Sincerely,

Raina Helton

Raina Helton, CKP
Regulatory Compliance Assistant
Enclosure







DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
4' Lightning Rod	300	Dish Mount	173
L-Lighting Beacon	300	6' HP Dish (EW52)	173
FML-2E-Radomes (1-5/8" Heliax)	295 - 285	2' Std. Dish w/o Radome (3/8" Heliax)	173
BXA-70063/6CF_ ((6) 1-5/8" Heliax)	260	24" x 24" Panel Antenna(s) (Cat 5)	158
60" x 12" x 4" Panel Antenna - Assumed	260	3' Typ. Omni/Whip Antenna(s) (Cat 5)	157
60" x 12" x 4" Panel Antenna - Assumed	260	1' Sidearm(s)	157
BXA-70063/6CF_	260	3' Typ. Omni/Whip Antenna(s) (Cat 5)	156
60" x 12" x 4" Panel Antenna - Assumed	260	1' Sidearm(s)	156
60" x 12" x 4" Panel Antenna - Assumed	260	2'x2' Ice Shield / Rest Platform	153
BXA-70063/6CF_	260	2'x2' Ice Shield / Rest Platform	153
60" x 12" x 4" Panel Antenna - Assumed	260	2'x2' Ice Shield / Rest Platform	153
60" x 12" x 4" Panel Antenna - Assumed	260	L-Side Light / Obstruction Light	150
(3) TMA/TTA(s)	260	L-Side Light / Obstruction Light	150
(3) 10' Gate Mount(s)	260	L-Side Light / Obstruction Light	150
BXA-70063/6CF Antenna Assumed ((2) 7/8" Heliax)	244	2' Std. Dish w/o Radome (5/16" Heliax)	138
		Dish Mount	94
BXA-70063/6CF Antenna Assumed	244	3' Std. Dish w/o Radome (7/8" Heliax)	94
BXA-70063/6CF Antenna Assumed	244	12" x 12" Panel Antenna(s) (Cat 5)	93
(3) TMA/TTA(s)	244	14" x 14" Panel Antenna(s) (Cat 5)	70
(3) 10' Gate Mount(s)	244	Typ. Yagi Antenna(s) (Cat 5)	17
5' Paraflector (7/8" Heliax)	183		

SYMBOL LIST

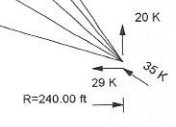
MARK	SIZE	MARK	SIZE
A	C4x5.4	D	1 @ 1.33333
B	SR 1/2	E	5 @ 1.0625
C	N.A.		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A36	36 ksi	58 ksi

TOWER DESIGN NOTES

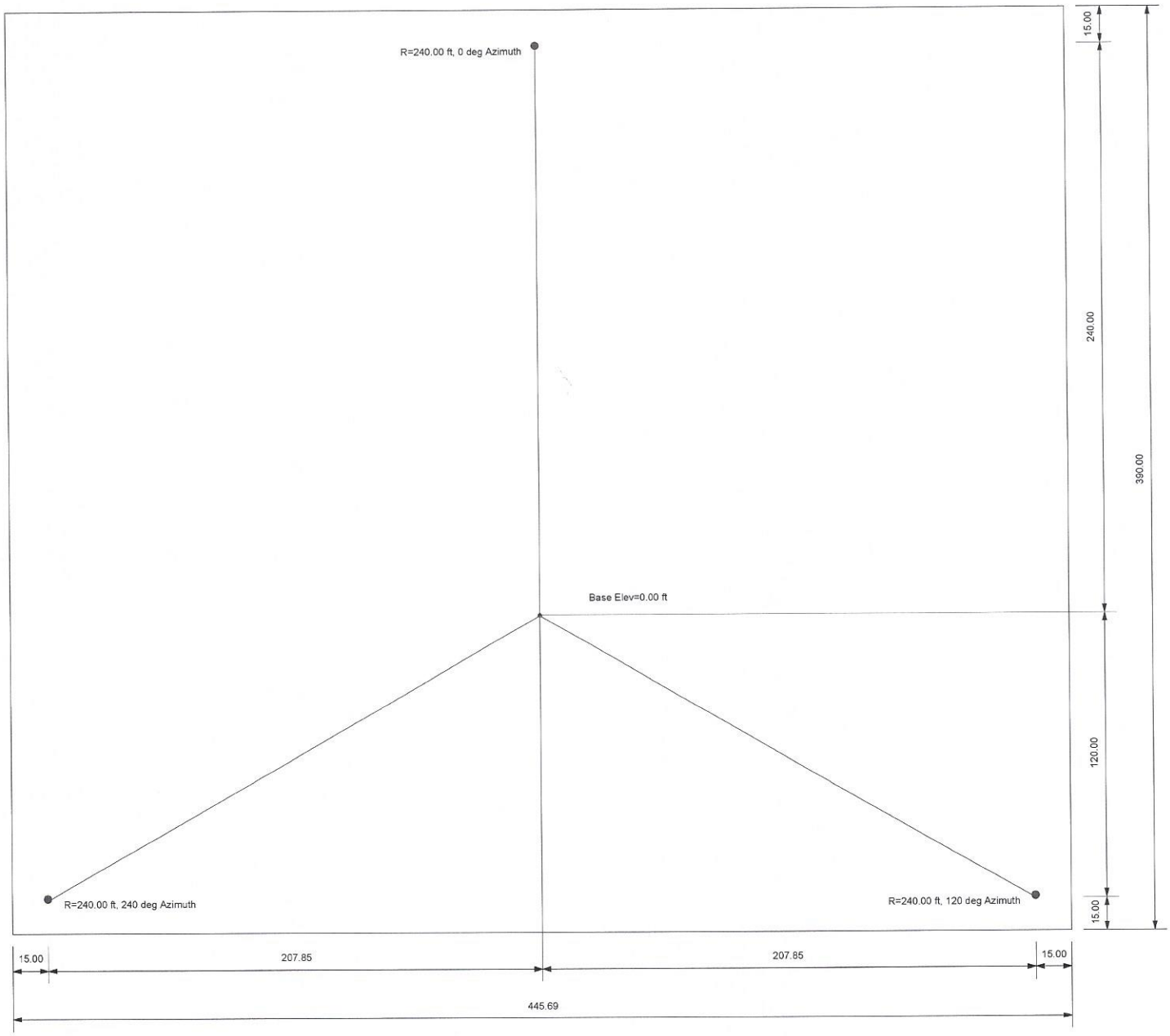
1. Tower is located in Powell County, Kentucky.
2. Tower designed for a 70.00 mph basic wind in accordance with the TIA/EIA-222-F Standard.
3. Tower is also designed for a 60.62 mph basic wind with 0.50 in ice.
4. Deflections are based upon a 50.00 mph wind.
5. Tower is designed for integral climbing ladder.
6. Tower is designed for integral feedline tab(s).
7. All bolted legs and/or weld together tower sections have flange connections.
8. Structural connections use galvanized A325 bolts and/or equivalent with nuts and/or nut locking devices. Installation per TIA/EIA-222 and AISC Specifications.
9. Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
10. All structural steel welding will be in compliance with AWS D1.1 latest revision and fabricated with ER-70S-6 electrodes.
11. Structure is designed to arrange feedlines based on using stackable hangers currently available in the communications industry unless specified otherwise by customer. See plan view of sheet E-7 for feedline arrangement used for the design of this structure.
12. Antenna loading assumptions are listed in the designed appurtenane loading chart above as "Assumed"
13. Tower face "C" is designated North.
14. TOWER RATING: 99.7%



Allstate Tower Inc.
P.O. Box 25
Henderson, KY. 42419
Phone: (270) 830-8512
FAX: (270) 830-8475

Job: 59671Z - Structural Analysis			
Project: Site Name : Stanton / Powell County, KY.			
Client: WSKV	Drawn by: Allstate Tower		App'd:
Code: TIA/EIA-222-F	Date: 04/09/16		Scale:
Path:			Dwg No.

Plot Plan
Total Area - 3.99 Acres



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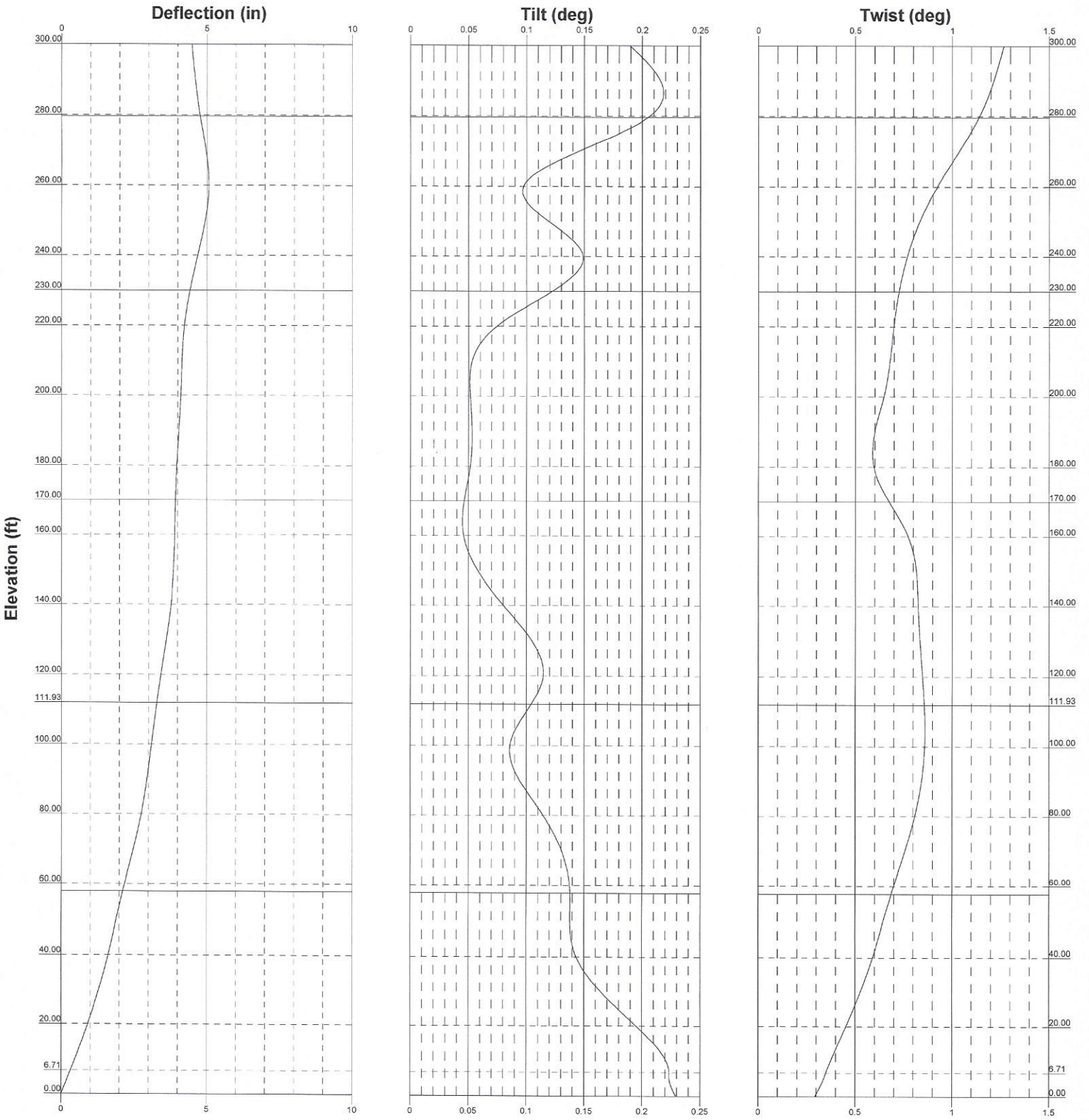
Path:			Dwg No.

TIA/EIA-222-F - Service - 50.00 mph

Maximum Values



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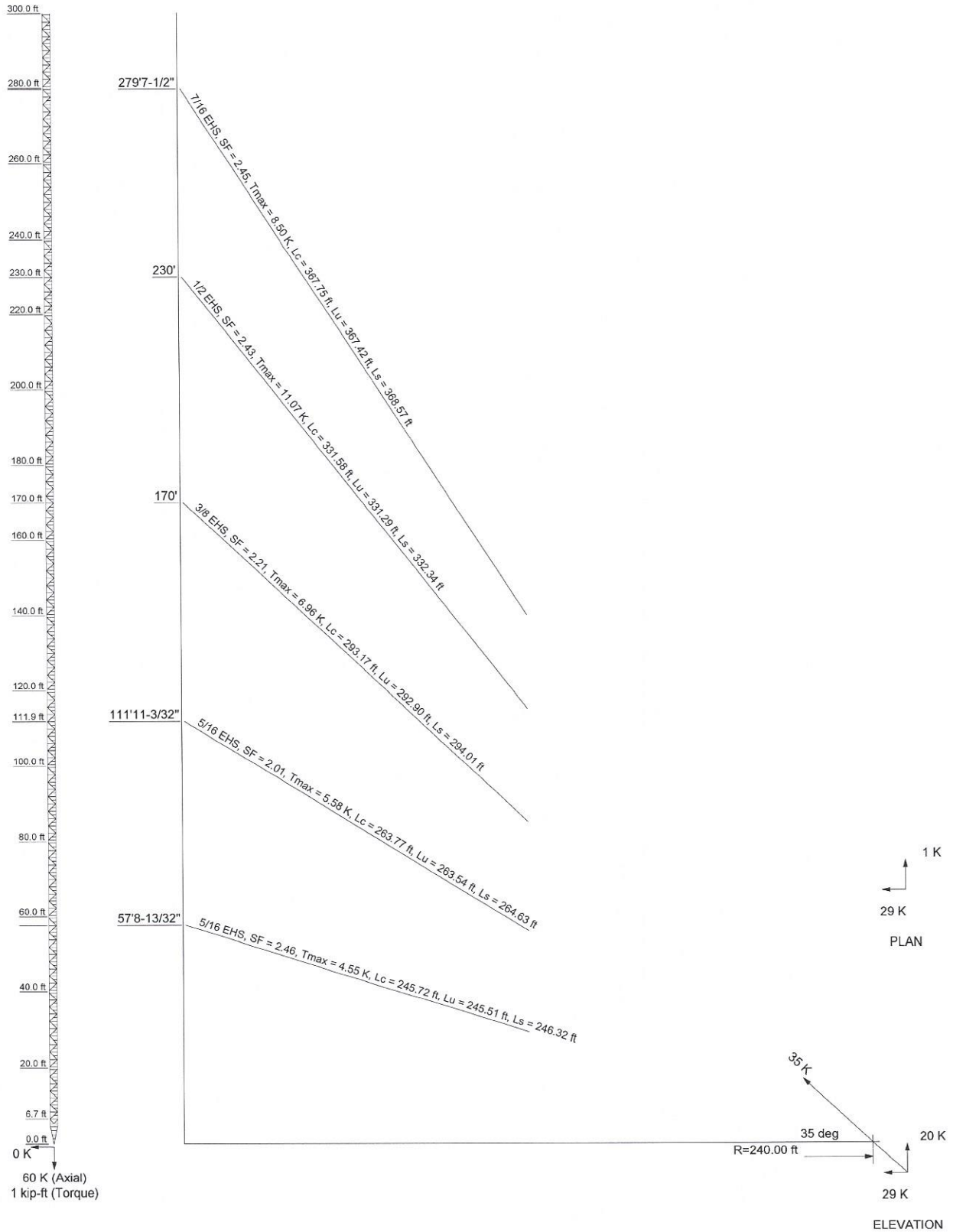
Code: TIA/EIA-222-F		Date: 04/09/16	Scale:
Path:			Dwg No.

Guy Tensions and Tower Reactions

TIA/EIA-222-F - 70.00 mph/60.62 mph 0.50 in Ice

Maximum Values
Anchor 'A'@240 ft Azimuth 0 deg Elev 0 ft
Plane through centroid of tower



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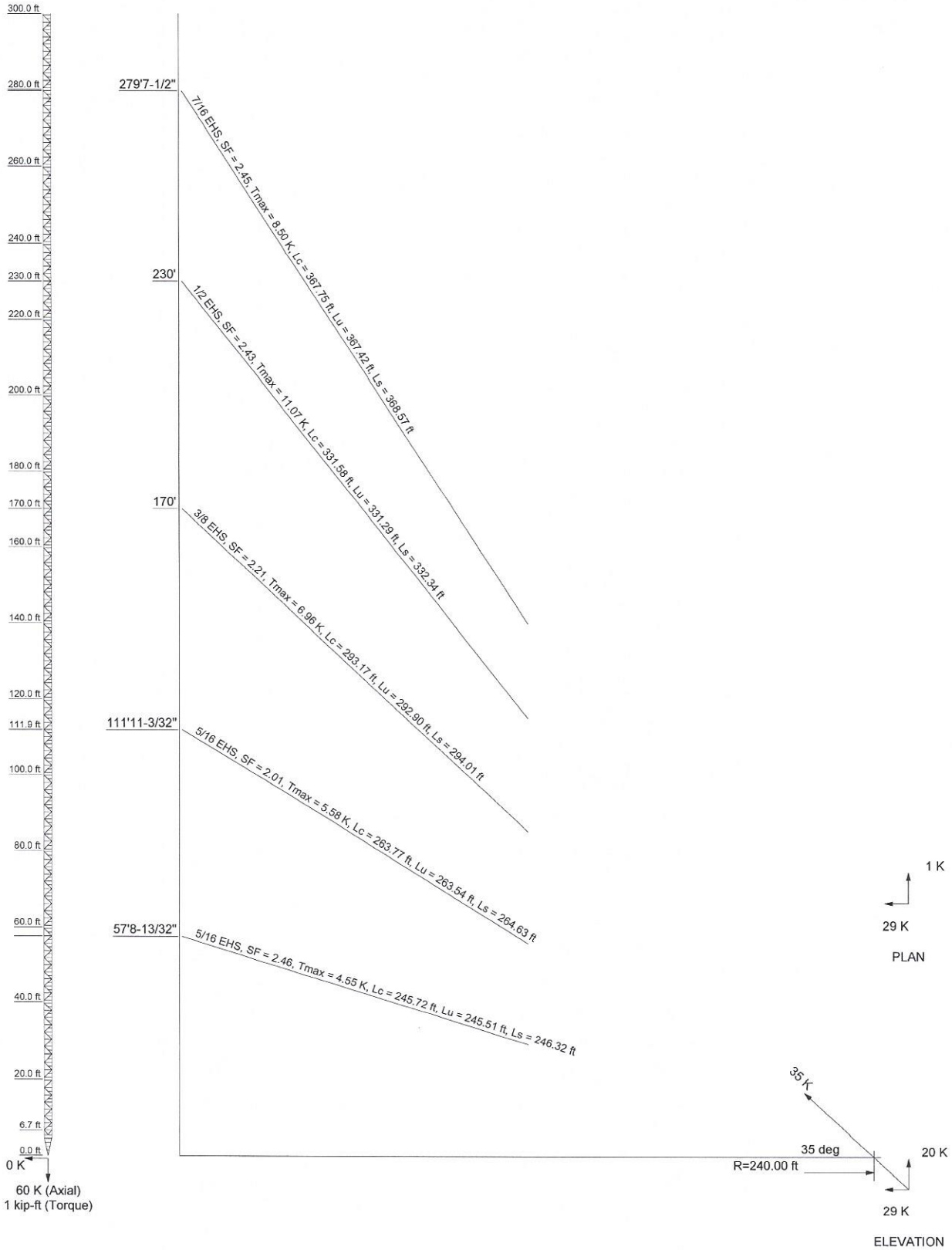
Client: WSKV		Drawn by: Allstate Tower	App'd:
Code: TIA/EIA-222-F		Date: 04/09/16	Scale:
Path:			Dwg No.

Guy Tensions and Tower Reactions

TIA/EIA-222-F - 70.00 mph/60.62 mph 0.50 in Ice

Maximum Values
Anchor 'B'@240 ft Azimuth 120 deg Elev 0 ft
Plane through centroid of tower



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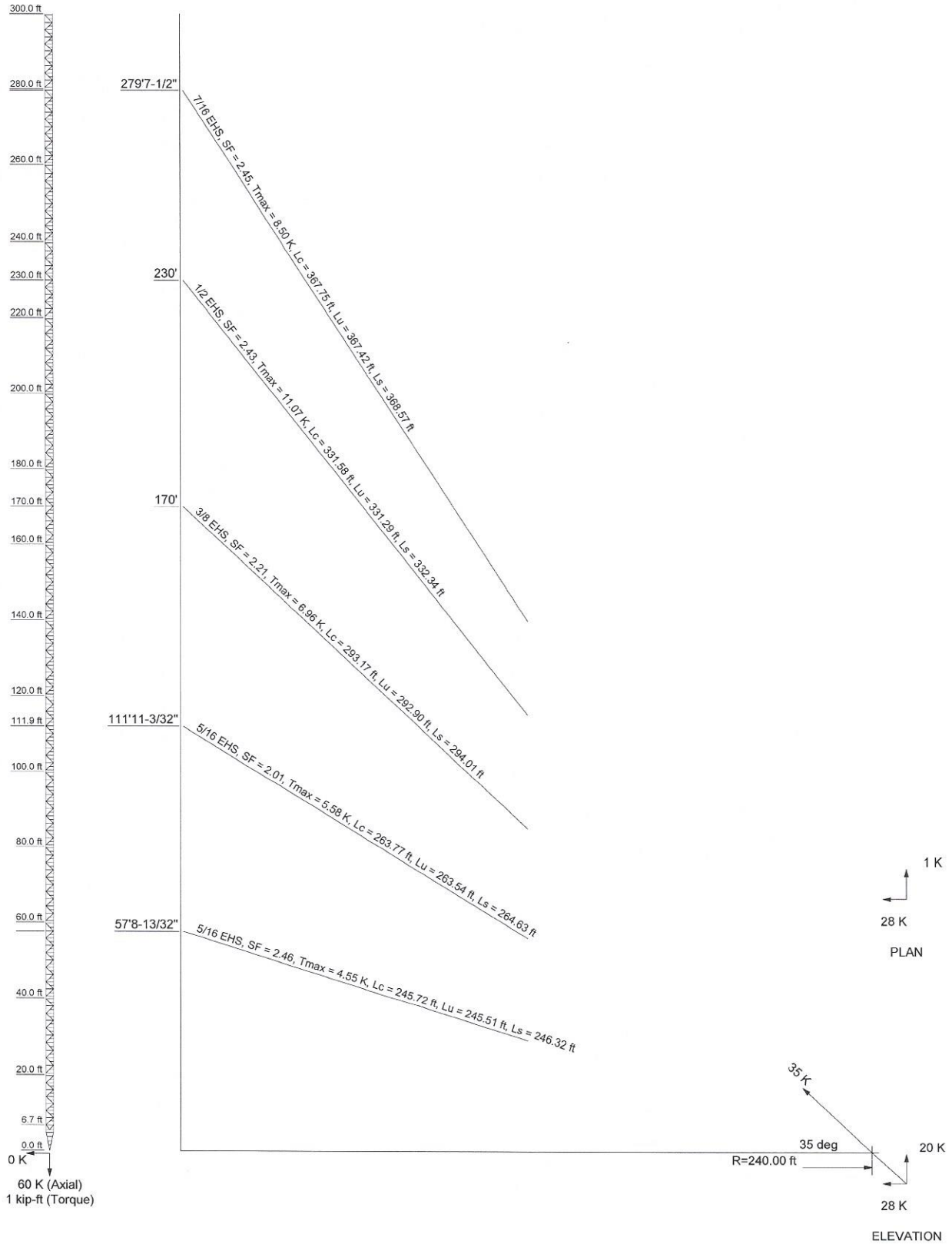
Path:			Dwg No.

Guy Tensions and Tower Reactions

TIA/EIA-222-F - 70.00 mph/60.62 mph 0.50 in Ice

Maximum Values
Anchor 'C'@240 ft Azimuth 240 deg Elev 0 ft
Plane through centroid of tower



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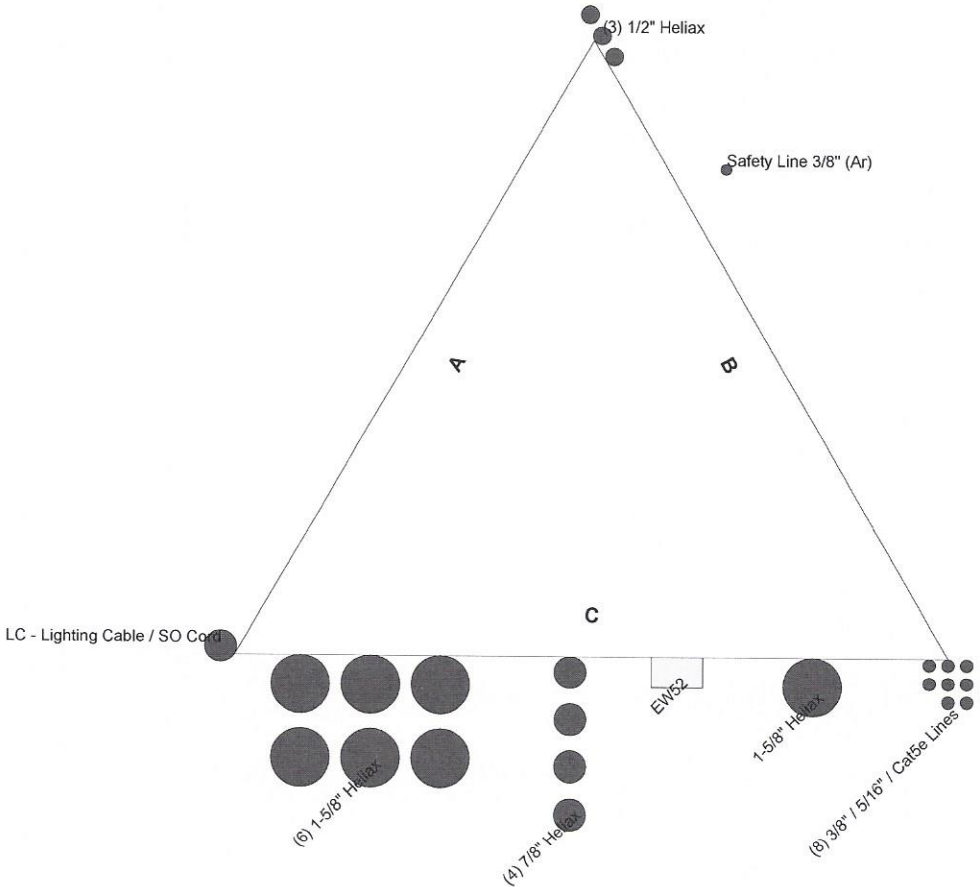
Code: TIA/EIA-222-F		Date: 04/09/16	Scale:
Path:			Dwg No.

Section @ 20'



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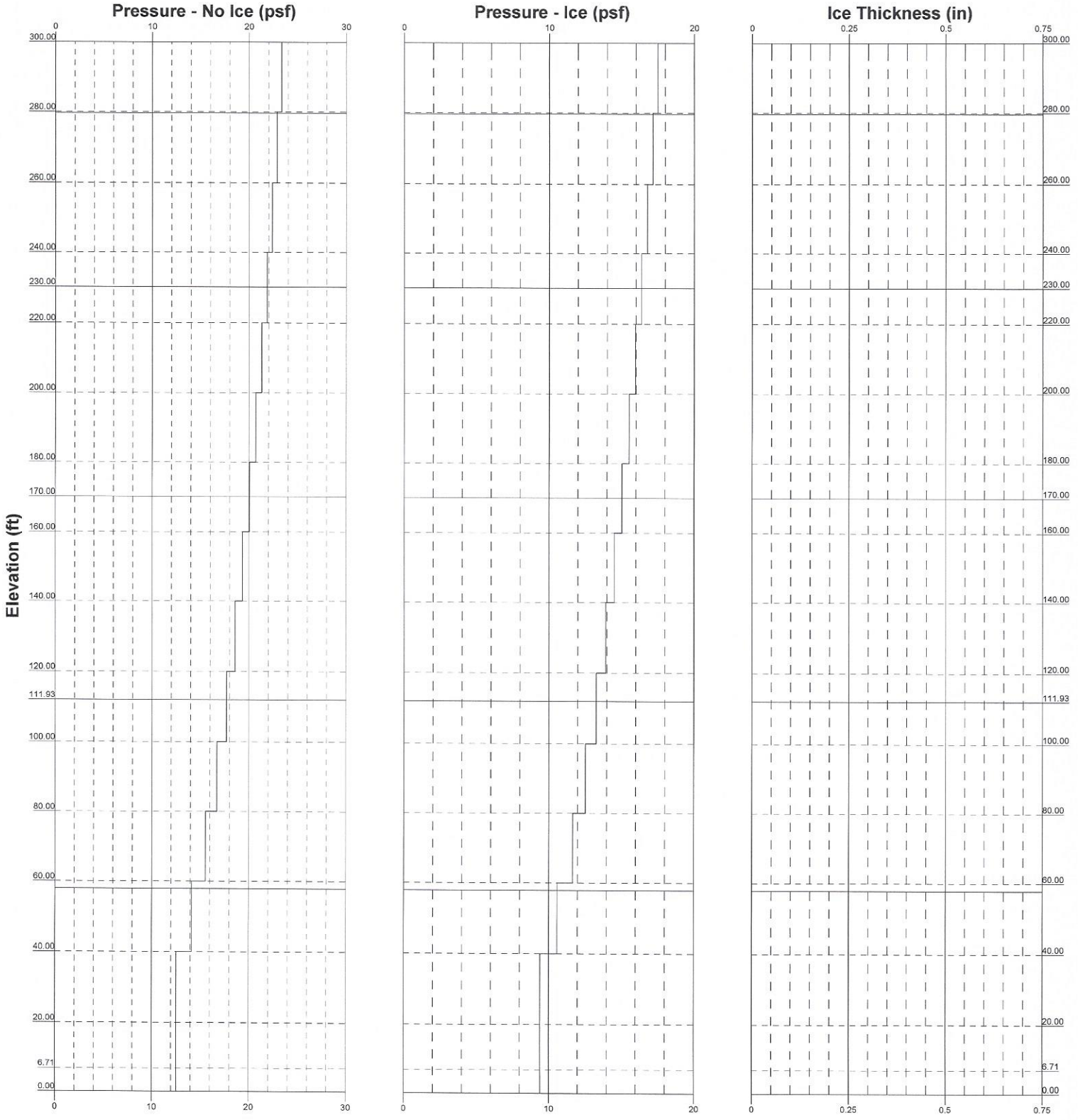
Client: WSKV		Drawn by: Allstate Tower	App'd:
Code: TIA/EIA-222-F		Date: 04/09/16	Scale:
Path:			Dwg No.

Wind Pressures and Ice Thickness

TIA/EIA-222-F - 70.00 mph/60.62 mph 0.50 in Ice



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Code: TIA/EIA-222-F		Date: 04/09/16	Scale:
Path:			Dwg No.

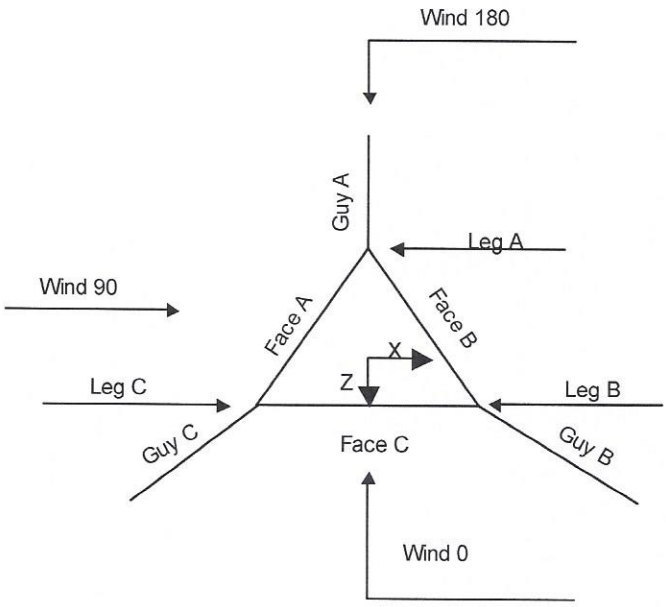
Tower Input Data

The main tower is a 3x guyed tower with an overall height of 300.00 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 2.00 ft at the top and tapered at the base.
This tower is designed using the TIA/EIA-222-F standard.
The following design criteria apply:

Tower is located in Powell County, Kentucky.
Basic wind speed of 70.00 mph.
Nominal ice thickness of 0.50 in.
Ice density of 56.00 pcf.
A wind speed of 60.62 mph is used in combination with ice.
Temperature drop of 50.00 °F.
Deflections calculated using a wind speed of 50.00 mph.
Tower is designed for integral climbing ladder..
Tower is designed for integral feedline tab(s)..
All bolted legs and/or weld together tower sections have flange connections..
Structural connections use galvanized A325 bolts and/or equivalent with nuts and/or nut 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..
All structural steel welding will be in compliance with AWS D1.1 latest revision and fabricated with ER-70S-6 electrodes..
Structure is designed to arrange feedlines based on using stackable hangers currently available in the communications industry unless specified otherwise by customer. See plan view of sheet E-7 for feedline arrangement used for the design of this structure..
Antenna loading assumptions are listed in the designed appurtenane loading chart above as "Assumed".
Tower face "C" is designated North..
Pressures are calculated at each section.
Safety factor used in guy design is 2.
Stress ratio used in tower member design is 1.333.
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

Tower Section Geometry

Tower Section	*Tower Elevation*	*Assembly Database*	*Description*	*Section Width*	*Number of Sections*	*Section Length*
	ft			*ft*		*ft*
T1	300.00-280.00			2.00	1	20.00
T2	280.00-260.00			2.00	1	20.00
T3	260.00-240.00			2.00	1	20.00
T4	240.00-220.00			2.00	1	20.00
T5	220.00-200.00			2.00	1	20.00
T6	200.00-180.00			2.00	1	20.00
T7	180.00-160.00			2.00	1	20.00
T8	160.00-140.00			2.00	1	20.00
T9	140.00-120.00			2.00	1	20.00
T10	120.00-100.00			2.00	1	20.00
T11	100.00-80.00			2.00	1	20.00
T12	80.00-60.00			2.00	1	20.00
T13	60.00-40.00			2.00	1	20.00
T14	40.00-20.00			2.00	1	20.00
T15	20.00-6.71			2.00	1	13.29
T16	6.71-5.00			2.00	1	1.71
T17	5.00-0.00			2.00	1	5.00

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	300.00-280.00	1.93	K Brace Left	No	Yes+Steps	4.50	4.50
T2	280.00-260.00	1.93	K Brace Left	No	Yes+Steps	4.50	4.50
T3	260.00-240.00	1.93	K Brace Left	No	Yes+Steps	4.50	4.50
T4	240.00-220.00	1.93	K Brace Left	No	Yes+Steps	4.50	4.50
T5	220.00-200.00	1.93	K Brace Left	No	Yes+Steps	4.50	4.50
T6	200.00-180.00	1.93	K Brace Left	No	Yes+Steps	4.50	4.50
T7	180.00-160.00	1.93	K Brace Left	No	Yes+Steps	4.50	4.50
T8	160.00-140.00	1.93	K Brace Left	No	Yes+Steps	4.50	4.50
T9	140.00-120.00	1.93	K Brace Left	No	Yes+Steps	4.50	4.50
T10	120.00-100.00	1.93	K Brace Left	No	Yes+Steps	4.50	4.50
T11	100.00-80.00	1.93	K Brace Left	No	Yes+Steps	4.50	4.50
T12	80.00-60.00	1.93	K Brace Left	No	Yes+Steps	4.50	4.50
T13	60.00-40.00	1.93	K Brace Left	No	Yes+Steps	4.50	4.50
T14	40.00-20.00	1.93	K Brace Left	No	Yes+Steps	4.50	4.50
T15	20.00-6.71	1.85	K Brace Left	No	Yes+Steps	4.50	0.00
T16	6.71-5.00	1.33	K Brace Up	No	Yes+Steps	0.00	4.50
T17	5.00-0.00	1.06	K Brace Left	No	Yes	4.50	4.50

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T1 300.00-280.00	Solid Round	1 1/4	A572-50 (50 ksi)	Solid Round	5/8	A36 (36 ksi)
T2 280.00-260.00	Solid Round	1 1/4	A572-50 (50 ksi)	Solid Round	5/8	A36 (36 ksi)
T3 260.00-240.00	Solid Round	1 1/4	A572-50 (50 ksi)	Solid Round	3/4	A36 (36 ksi)
T4 240.00-220.00	Solid Round	1 1/2	A572-50 (50 ksi)	Solid Round	3/4	A36 (36 ksi)
T5 220.00-200.00	Solid Round	1 1/2	A572-50 (50 ksi)	Solid Round	5/8	A36 (36 ksi)
T6 200.00-180.00	Solid Round	1 1/4	A572-50 (50 ksi)	Solid Round	5/8	A36 (36 ksi)
T7 180.00-160.00	Solid Round	1 1/4	A572-50 (50 ksi)	Solid Round	5/8	A36 (36 ksi)
T8 160.00-140.00	Solid Round	1 1/4	A572-50 (50 ksi)	Solid Round	5/8	A36 (36 ksi)
T9 140.00-120.00	Solid Round	1 1/4	A572-50 (50 ksi)	Solid Round	5/8	A36 (36 ksi)
T10 120.00-100.00	Solid Round	1 1/2	A572-50 (50 ksi)	Solid Round	5/8	A36 (36 ksi)
T11 100.00-80.00	Solid Round	1 1/2	A572-50 (50 ksi)	Solid Round	5/8	A36 (36 ksi)
T12 80.00-60.00	Solid Round	1 1/2	A572-50 (50 ksi)	Solid Round	5/8	A36 (36 ksi)
T13 60.00-40.00	Solid Round	1 1/2	A572-50 (50 ksi)	Solid Round	5/8	A36 (36 ksi)
T14 40.00-20.00	Solid Round	1 1/2	A572-50 (50 ksi)	Solid Round	5/8	A36 (36 ksi)
T15 20.00-6.71	Solid Round	1 1/2	A572-50	Solid Round	5/8	A36

Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T16 6.71-5.00	Solid Round	1 1/2	(50 ksi) A572-50 (50 ksi)	Solid Round	5/8	(36 ksi) A36 (36 ksi)
T17 5.00-0.00	Solid Round	1 1/2	(50 ksi) A572-50 (50 ksi)	Solid Round		(36 ksi) A36 (36 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 300.00-280.00	Solid Round	1/2	A36 (36 ksi)	Solid Round	1/2	A36 (36 ksi)
T2 280.00-260.00	Solid Round	1/2	A36 (36 ksi)	Solid Round	1/2	A36 (36 ksi)
T3 260.00-240.00	Solid Round	1/2	A36 (36 ksi)	Solid Round	1/2	A36 (36 ksi)
T4 240.00-220.00	Solid Round	1/2	A36 (36 ksi)	Solid Round	1/2	A36 (36 ksi)
T5 220.00-200.00	Solid Round	1/2	A36 (36 ksi)	Solid Round	1/2	A36 (36 ksi)
T6 200.00-180.00	Solid Round	1/2	A36 (36 ksi)	Solid Round	1/2	A36 (36 ksi)
T7 180.00-160.00	Solid Round	1/2	A36 (36 ksi)	Solid Round	1/2	A36 (36 ksi)
T8 160.00-140.00	Solid Round	1/2	A36 (36 ksi)	Solid Round	1/2	A36 (36 ksi)
T9 140.00-120.00	Solid Round	1/2	A36 (36 ksi)	Solid Round	1/2	A36 (36 ksi)
T10 120.00-100.00	Solid Round	1/2	A36 (36 ksi)	Solid Round	1/2	A36 (36 ksi)
T11 100.00-80.00	Solid Round	1/2	A36 (36 ksi)	Solid Round	1/2	A36 (36 ksi)
T12 80.00-60.00	Solid Round	1/2	A36 (36 ksi)	Solid Round	1/2	A36 (36 ksi)
T13 60.00-40.00	Solid Round	1/2	A36 (36 ksi)	Solid Round	1/2	A36 (36 ksi)
T14 40.00-20.00	Solid Round	1/2	A36 (36 ksi)	Solid Round	1/2	A36 (36 ksi)
T15 20.00-6.71	Solid Round	1/2	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T16 6.71-5.00	Solid Round	1/2	A36 (36 ksi)	Solid Round	1/2	A36 (36 ksi)
T17 5.00-0.00	Channel	C4x5.4	A529-50 (50 ksi)	Channel	C4x5.4	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
T1 300.00-280.00	None	Solid Round		A36 (36 ksi)	Solid Round	1/2	A36 (36 ksi)
T2 280.00-260.00	None	Solid Round		A36 (36 ksi)	Solid Round	1/2	A36 (36 ksi)
T3 260.00-240.00	None	Solid Round		A36 (36 ksi)	Solid Round	1/2	A36 (36 ksi)
T4 240.00-220.00	None	Solid Round		A36 (36 ksi)	Solid Round	1/2	A36 (36 ksi)
T5 220.00-200.00	None	Solid Round		A36 (36 ksi)	Solid Round	1/2	A36 (36 ksi)
T6 200.00-180.00	None	Solid Round		A36 (36 ksi)	Solid Round	1/2	A36 (36 ksi)
T7 180.00-160.00	None	Solid Round		A36 (36 ksi)	Solid Round	1/2	A36 (36 ksi)
T8 160.00-140.00	None	Solid Round		A36 (36 ksi)	Solid Round	1/2	A36 (36 ksi)
T9 140.00-120.00	None	Solid Round		A36 (36 ksi)	Solid Round	1/2	A36 (36 ksi)
T10 120.00-100.00	None	Solid Round		A36 (36 ksi)	Solid Round	1/2	A36 (36 ksi)
T11 100.00-80.00	None	Solid Round		A36 (36 ksi)	Solid Round	1/2	A36 (36 ksi)
T12 80.00-60.00	None	Solid Round		A36 (36 ksi)	Solid Round	1/2	A36 (36 ksi)
T13 60.00-40.00	None	Solid Round		A36 (36 ksi)	Solid Round	1/2	A36 (36 ksi)
T14 40.00-20.00	None	Solid Round		A36 (36 ksi)	Solid Round	1/2	A36 (36 ksi)
T15 20.00-6.71	None	Solid Round		A36 (36 ksi)	Solid Round	1/2	A36 (36 ksi)
T16 6.71-5.00	None	Solid Round		A36 (36 ksi)	Solid Round	1/2	A36 (36 ksi)
T17 5.00-0.00	None	Equal Angle		A36 (36 ksi)	Channel	C4x5.4	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
T1 300.00-280.00	Solid Round	1/2	A36 (36 ksi)	Solid Round		A572-50 (50 ksi)
T2 280.00-260.00	Solid Round	1/2	A36 (36 ksi)	Solid Round		A572-50 (50 ksi)
T3 260.00-240.00	Solid Round	1/2	A36 (36 ksi)	Solid Round		A572-50 (50 ksi)
T4 240.00-220.00	Solid Round	1/2	A36 (36 ksi)	Solid Round		A572-50 (50 ksi)
T5 220.00-200.00	Solid Round	1/2	A36 (36 ksi)	Solid Round		A572-50 (50 ksi)
T6 200.00-180.00	Solid Round	1/2	A36 (36 ksi)	Solid Round		A572-50 (50 ksi)
T7 180.00-160.00	Solid Round	1/2	A36 (36 ksi)	Solid Round		A572-50 (50 ksi)

Tower Elevation ft	Secondary Horizontal Type	Secondary Horizontal Size	Secondary Horizontal Grade	Inner Bracing Type	Inner Bracing Size	Inner Bracing Grade
T8 160.00-140.00	Solid Round	1/2	A36 (36 ksi)	Solid Round		A572-50 (50 ksi)
T9 140.00-120.00	Solid Round	1/2	A36 (36 ksi)	Solid Round		A572-50 (50 ksi)
T10 120.00-100.00	Solid Round	1/2	A36 (36 ksi)	Solid Round		A572-50 (50 ksi)
T11 100.00-80.00	Solid Round	1/2	A36 (36 ksi)	Solid Round		A572-50 (50 ksi)
T12 80.00-60.00	Solid Round	1/2	A36 (36 ksi)	Solid Round		A572-50 (50 ksi)
T13 60.00-40.00	Solid Round	1/2	A36 (36 ksi)	Solid Round		A572-50 (50 ksi)
T14 40.00-20.00	Solid Round	1/2	A36 (36 ksi)	Solid Round		A572-50 (50 ksi)
T15 20.00-6.71	Solid Round	1/2	A36 (36 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 300.00-280.00	0.00	0.00	A36 (36 ksi)	1	1	1.05	36.00	36.00	36.00
T2 280.00-260.00	0.00	0.00	A36 (36 ksi)	1	1	1.05	36.00	36.00	36.00
T3 260.00-240.00	0.00	0.00	A36 (36 ksi)	1	1	1.05	36.00	36.00	36.00
T4 240.00-220.00	0.00	0.00	A36 (36 ksi)	1	1	1.05	36.00	36.00	36.00
T5 220.00-200.00	0.00	0.00	A36 (36 ksi)	1	1	1.05	36.00	36.00	36.00
T6 200.00-180.00	0.00	0.00	A36 (36 ksi)	1	1	1.05	36.00	36.00	36.00
T7 180.00-160.00	0.00	0.00	A36 (36 ksi)	1	1	1.05	36.00	36.00	36.00
T8 160.00-140.00	0.00	0.00	A36 (36 ksi)	1	1	1.05	36.00	36.00	36.00
T9 140.00-120.00	0.00	0.00	A36 (36 ksi)	1	1	1.05	36.00	36.00	36.00
T10 120.00-100.00	0.00	0.00	A36 (36 ksi)	1	1	1.05	36.00	36.00	36.00
T11 100.00-80.00	0.00	0.00	A36 (36 ksi)	1	1	1.05	36.00	36.00	36.00
T12 80.00-60.00	0.00	0.00	A36 (36 ksi)	1	1	1.05	36.00	36.00	36.00
T13 60.00-40.00	0.00	0.00	A36 (36 ksi)	1	1	1.05	36.00	36.00	36.00
T14 40.00-20.00	0.00	0.00	A36 (36 ksi)	1	1	1.05	36.00	36.00	36.00
T15 20.00-6.71	0.00	0.00	A36 (36 ksi)	1	1	1.05	36.00	36.00	36.00
T16 6.71-5.00	0.00	0.00	A36	1	1	1.05	36.00	36.00	36.00

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
ft	ft^2	in					in	in	in
T17 5.00-0.00	0.00	0.00	(36 ksi) A36 (36 ksi)	1	1	1.05	36.00	36.00	36.00

Tower Section Geometry (cont'd)

Tower Elevation	Calc K Single Angles	Calc K Solid Rounds	K Factors[1] Legs	X Brace Diags X	X Brace Diags Y	K Single Diags X	K Single Diags Y	Girts X	Girts Y	Horiz. X	Horiz. Y	Sec. Horiz. X	Sec. Horiz. Y	Inner Brace X	Inner Brace Y
ft															
T1 300.00-280.00	Yes	Yes	1	1	1	1	1	1	1	1	1	1	1	1	1
T2 280.00-260.00	Yes	Yes	1	1	1	1	1	1	1	1	1	1	1	1	1
T3 260.00-240.00	Yes	Yes	1	1	1	1	1	1	1	1	1	1	1	1	1
T4 240.00-220.00	Yes	Yes	1	1	1	1	1	1	1	1	1	1	1	1	1
T5 220.00-200.00	Yes	Yes	1	1	1	1	1	1	1	1	1	1	1	1	1
T6 200.00-180.00	Yes	Yes	1	1	1	1	1	1	1	1	1	1	1	1	1
T7 180.00-160.00	Yes	Yes	1	1	1	1	1	1	1	1	1	1	1	1	1
T8 160.00-140.00	Yes	Yes	1	1	1	1	1	1	1	1	1	1	1	1	1
T9 140.00-120.00	Yes	Yes	1	1	1	1	1	1	1	1	1	1	1	1	1
T10 120.00-100.00	Yes	Yes	1	1	1	1	1	1	1	1	1	1	1	1	1
T11 100.00-80.00	Yes	Yes	1	1	1	1	1	1	1	1	1	1	1	1	1
T12 80.00-60.00	Yes	Yes	1	1	1	1	1	1	1	1	1	1	1	1	1
T13 60.00-40.00	Yes	Yes	1	1	1	1	1	1	1	1	1	1	1	1	1
T14 40.00-20.00	Yes	Yes	1	1	1	1	1	1	1	1	1	1	1	1	1
T15 20.00-6.71	Yes	Yes	1	1	1	1	1	1	1	1	1	1	1	1	1
T16 6.71-5.00	Yes	Yes	1	1	1	1	1	1	1	1	1	1	1	1	1
T17 5.00-0.00	Yes	Yes	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		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
T1 300.00-280.00	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T2 280.00-260.00	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T3 260.00-240.00	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T4 240.00-220.00	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T5 220.00-200.00	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T6 200.00-180.00	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T7 180.00-160.00	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T8 160.00-140.00	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T9 140.00-120.00	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T10 120.00-100.00	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T11 100.00-80.00	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T12 80.00-60.00	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T13 60.00-40.00	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T14 40.00-20.00	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T15 20.00-6.71	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T16 6.71-5.00	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T17 5.00-0.00	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75

Guy Data

Guy Elevation ft	Guy Grade		Guy Size	Initial Tension K	%	Guy Modulus ksi	Guy Weight plf	L_u ft	Anchor Radius ft	Anchor Azimuth Adj. °	Anchor Elevation ft	End Fitting Efficiency %
279.625	EHS	A	7/16	2.08	10%	21000.00	0.40	367.45	240.00	0.00	0.00	100%
		B	7/16	2.08	10%	21000.00	0.40	367.45	240.00	0.00	0.00	100%
		C	7/16	2.08	10%	21000.00	0.40	367.45	240.00	0.00	0.00	100%
230	EHS	A	1/2	2.69	10%	21000.00	0.52	331.32	240.00	0.00	0.00	100%
		B	1/2	2.69	10%	21000.00	0.52	331.32	240.00	0.00	0.00	100%
		C	1/2	2.69	10%	21000.00	0.52	331.32	240.00	0.00	0.00	100%
170	EHS	A	3/8	1.54	10%	21000.00	0.27	292.91	240.00	0.00	0.00	100%
		B	3/8	1.54	10%	21000.00	0.27	292.91	240.00	0.00	0.00	100%
		C	3/8	1.54	10%	21000.00	0.27	292.91	240.00	0.00	0.00	100%
111.925	EHS	A	5/16	1.12	10%	21000.00	0.20	263.55	240.00	0.00	0.00	100%
		B	5/16	1.12	10%	21000.00	0.20	263.55	240.00	0.00	0.00	100%
		C	5/16	1.12	10%	21000.00	0.20	263.55	240.00	0.00	0.00	100%

57.7	EHS	A	5/16	1.12	10%	21000.00	0.20	245.51	240.00	0.00	0.00	100%
		B	5/16	1.12	10%	21000.00	0.20	245.51	240.00	0.00	0.00	100%
		C	5/16	1.12	10%	21000.00	0.20	245.51	240.00	0.00	0.00	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
279.625	Corner						
230	Corner						
170	Corner						
111.925	Corner						
57.7	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
279.63	A572-50 (50 ksi)	Solid Round				A572-50 (50 ksi)	Solid Round	
230.00	A572-50 (50 ksi)	Solid Round				A572-50 (50 ksi)	Solid Round	
170.00	A572-50 (50 ksi)	Solid Round				A572-50 (50 ksi)	Solid Round	
111.93	A572-50 (50 ksi)	Solid Round				A572-50 (50 ksi)	Solid Round	
57.70	A572-50 (50 ksi)	Solid Round				A572-50 (50 ksi)	Solid Round	

Guy Data (cont'd)

Guy Elevation ft	Cable Weight A K	Cable Weight B K	Cable Weight C K	Cable Weight D K	Tower Intercept A ft	Tower Intercept B ft	Tower Intercept C ft	Tower Intercept D ft
279.625	0.15	0.15	0.15		12.63 6.1 sec/pulse 10.33	12.63 6.1 sec/pulse 10.33	12.63 6.1 sec/pulse 10.33	
230	0.17	0.17	0.17		5.6 sec/pulse 7.50	5.6 sec/pulse 7.50	5.6 sec/pulse 7.50	
170	0.08	0.08	0.08		4.7 sec/pulse 6.30	4.7 sec/pulse 6.30	4.7 sec/pulse 6.30	
111.925	0.05	0.05	0.05		4.3 sec/pulse 5.49	4.3 sec/pulse 5.49	4.3 sec/pulse 5.49	
57.7	0.05	0.05	0.05		4.0 sec/pulse	4.0 sec/pulse	4.0 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
279.625	No	No			1	1	1	1
230	No	No			1	1	1	1
170	No	No			1	1	1	1
111.925	No	No			1	1	1	1
57.7	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
279.625	0.00 A325N	0	0.00	1	0.63 A325N	0	0.00	0.75	0.63 A325N	0	0.00	0.75
230	0.00 A325N	0	0.00	1	0.63 A325N	0	0.00	0.75	0.63 A325N	0	0.00	0.75
170	0.00 A325N	0	0.00	1	0.63 A325N	0	0.00	0.75	0.63 A325N	0	0.00	0.75
111.925	0.00 A325N	0	0.00	1	0.63 A325N	0	0.00	0.75	0.63 A325N	0	0.00	0.75
57.7	0.00 A325N	0	0.00	1	0.63 A325N	0	0.00	0.75	0.63 A325N	0	0.00	0.75

Guy Pressures

Guy Elevation ft	Guy Location	z ft	q_z psf	q_z Ice psf	Ice Thickness in
279.625	A	139.81	18.95	14.21	0.50
	B	139.81	18.95	14.21	0.50
	C	139.81	18.95	14.21	0.50
230	A	115.00	17.92	13.44	0.50
	B	115.00	17.92	13.44	0.50
	C	115.00	17.92	13.44	0.50
170	A	85.00	16.44	12.33	0.50
	B	85.00	16.44	12.33	0.50
	C	85.00	16.44	12.33	0.50
111.925	A	55.96	14.59	10.94	0.50
	B	55.96	14.59	10.94	0.50
	C	55.96	14.59	10.94	0.50
57.7	A	28.85	12.54	9.41	0.50
	B	28.85	12.54	9.41	0.50
	C	28.85	12.54	9.41	0.50

Guy-Mast Forces (Excluding Wind) - No Ice

Guy Elevation	Guy Location	Chord Angle	Guy Tension Top / Bottom	F_x	F_y	F_z	M_x	M_y	M_z
ft		°	K	K	K	K	kip-ft	kip-ft	kip-ft
279.625	A	49.50	2.19 2.08	0.00	1.70	-1.39	-1.96	0.00	0.00
	B	49.50	2.19 2.08	1.20	1.70	0.69	0.98	0.00	-1.70
	C	49.50	2.19 2.08	-1.20	1.70	0.69	0.98	0.00	1.70
			Sum:	0.00	5.09	0.00	0.00	0.00	0.00
230	A	43.92	2.81 2.69	0.00	1.99	-1.98	-2.30	0.00	0.00
	B	43.92	2.81 2.69	1.71	1.99	0.99	1.15	0.00	-1.99
	C	43.92	2.81 2.69	-1.71	1.99	0.99	1.15	0.00	1.99
			Sum:	0.00	5.98	0.00	0.00	0.00	0.00
170	A	35.44	1.59 1.54	0.00	0.95	-1.27	-1.09	0.00	0.00
	B	35.44	1.59 1.54	1.10	0.95	0.64	0.55	0.00	-0.95
	C	35.44	1.59 1.54	-1.10	0.95	0.64	0.55	0.00	0.95
			Sum:	0.00	2.84	0.00	0.00	0.00	0.00
111.925	A	25.11	1.14 1.12	0.00	0.51	-1.02	-0.59	0.00	0.00
	B	25.11	1.14 1.12	0.89	0.51	0.51	0.29	0.00	-0.51
	C	25.11	1.14 1.12	-0.89	0.51	0.51	0.29	0.00	0.51
			Sum:	0.00	1.52	0.00	0.00	0.00	0.00
57.7	A	13.58	1.13 1.12	0.00	0.29	-1.09	-0.33	0.00	0.00
	B	13.58	1.13 1.12	0.95	0.29	0.55	0.17	0.00	-0.29
	C	13.58	1.13 1.12	-0.95	0.29	0.55	0.17	0.00	0.29
			Sum:	0.00	0.87	0.00	0.00	0.00	0.00

Guy-Mast Forces (Excluding Wind) - Ice

Guy Elevation	Guy Location	Chord Angle	Guy Tension Top / Bottom	F_x	F_y	F_z	M_x	M_y	M_z
ft		°	K	K	K	K	kip-ft	kip-ft	kip-ft
279.625	A	49.50	3.38 3.11	0.00	2.64	-2.10	-3.05	0.00	0.00
	B	49.50	3.38 3.11	1.82	2.64	1.05	1.53	0.00	-2.64
	C	49.50	3.38 3.11	-1.82	2.64	1.05	1.53	0.00	2.64
			Sum:	0.00	7.93	0.00	0.00	0.00	0.00
230	A	43.92	4.21	0.00	3.02	-2.94	-3.48	0.00	0.00

Guy Elevation	Guy Location	Chord Angle	Guy Tension Top Bottom K	F_x	F_y	F_z	M_x	M_y	M_z
ft		°		K	K	K	kip-ft	kip-ft	kip-ft
			3.95						
	B	43.92	4.21	2.54	3.02	1.47	1.74	0.00	-3.02
			3.95						
	C	43.92	4.21	-2.54	3.02	1.47	1.74	0.00	3.02
			3.95						
			Sum:	0.00	9.05	0.00	0.00	0.00	0.00
170	A	35.44	2.49	0.00	1.52	-1.97	-1.76	0.00	0.00
			2.36						
	B	35.44	2.49	1.71	1.52	0.99	0.88	0.00	-1.52
			2.36						
	C	35.44	2.49	-1.71	1.52	0.99	0.88	0.00	1.52
			2.36						
			Sum:	0.00	4.57	0.00	0.00	0.00	0.00
111.925	A	25.11	1.90	0.00	0.88	-1.68	-1.02	0.00	0.00
			1.82						
	B	25.11	1.90	1.46	0.88	0.84	0.51	0.00	-0.88
			1.82						
	C	25.11	1.90	-1.46	0.88	0.84	0.51	0.00	0.88
			1.82						
			Sum:	0.00	2.65	0.00	0.00	0.00	0.00
57.7	A	13.58	1.88	0.00	0.52	-1.80	-0.60	0.00	0.00
			1.84						
	B	13.58	1.88	1.56	0.52	0.90	0.30	0.00	-0.52
			1.84						
	C	13.58	1.88	-1.56	0.52	0.90	0.30	0.00	0.52
			1.84						
			Sum:	0.00	1.57	0.00	0.00	0.00	0.00

Guy-Mast Forces (Excluding Wind) - Service

Guy Elevation	Guy Location	Chord Angle	Guy Tension Top Bottom K	F_x	F_y	F_z	M_x	M_y	M_z
ft		°		K	K	K	kip-ft	kip-ft	kip-ft
279.625	A	49.50	2.19	0.00	1.70	-1.39	-1.96	0.00	0.00
			2.08						
	B	49.50	2.19	1.20	1.70	0.69	0.98	0.00	-1.70
			2.08						
	C	49.50	2.19	-1.20	1.70	0.69	0.98	0.00	1.70
			2.08						
			Sum:	0.00	5.09	0.00	0.00	0.00	0.00
230	A	43.92	2.81	0.00	1.99	-1.98	-2.30	0.00	0.00
			2.69						
	B	43.92	2.81	1.71	1.99	0.99	1.15	0.00	-1.99
			2.69						
	C	43.92	2.81	-1.71	1.99	0.99	1.15	0.00	1.99
			2.69						
			Sum:	0.00	5.98	0.00	0.00	0.00	0.00
170	A	35.44	1.59	0.00	0.95	-1.27	-1.09	0.00	0.00
			1.54						
	B	35.44	1.59	1.10	0.95	0.64	0.55	0.00	-0.95
			1.54						
	C	35.44	1.59	-1.10	0.95	0.64	0.55	0.00	0.95

Guy Elevation	Guy Location	Chord Angle	Guy Tension Top Bottom K	F_x	F_y	F_z	M_x	M_y	M_z
ft		°		K	K	K	kip-ft	kip-ft	kip-ft
			1.54						
			Sum:	0.00	2.84	0.00	0.00	0.00	0.00
111.925	A	25.11	1.14	0.00	0.51	-1.02	-0.59	0.00	0.00
			1.12						
	B	25.11	1.14	0.89	0.51	0.51	0.29	0.00	-0.51
			1.12						
	C	25.11	1.14	-0.89	0.51	0.51	0.29	0.00	0.51
			1.12						
			Sum:	0.00	1.52	0.00	0.00	0.00	0.00
57.7	A	13.58	1.13	0.00	0.29	-1.09	-0.33	0.00	0.00
			1.12						
	B	13.58	1.13	0.95	0.29	0.55	0.17	0.00	-0.29
			1.12						
	C	13.58	1.13	-0.95	0.29	0.55	0.17	0.00	0.29
			1.12						
			Sum:	0.00	0.87	0.00	0.00	0.00	0.00

Guy-Tensioning Information

Guy Elevation		H	V	Temperature At Time Of Tensioning: 0 F Initial Tension	0 F Intercept	20 F Initial Tension	20 F Intercept	40 F Initial Tension	40 F Intercept	60 F Initial Tension	60 F Intercept	80 F Initial Tension	80 F Intercept	100 F Initial Tension	100 F Intercept	120 F Initial Tension	120 F Intercept
ft		ft	ft	K	ft	K	ft	K	ft	K	ft	K	ft	K	ft	K	ft
279.625	A	238.85	279.63	2.428	10.85	2.309	11.40	2.193	11.99	2.080	12.63	1.969	13.32	1.862	14.07	1.758	14.87
	B	238.85	279.63	2.428	10.85	2.309	11.40	2.193	11.99	2.080	12.63	1.969	13.32	1.862	14.07	1.758	14.87
	C	238.85	279.63	2.428	10.85	2.309	11.40	2.193	11.99	2.080	12.63	1.969	13.32	1.862	14.07	1.758	14.87
230	A	238.85	230.00	3.246	8.59	3.057	9.11	2.871	9.69	2.690	10.33	2.515	11.04	2.346	11.81	2.185	12.66
	B	238.85	230.00	3.246	8.59	3.057	9.11	2.871	9.69	2.690	10.33	2.515	11.04	2.346	11.81	2.185	12.66
	C	238.85	230.00	3.246	8.59	3.057	9.11	2.871	9.69	2.690	10.33	2.515	11.04	2.346	11.81	2.185	12.66
170	A	238.85	170.00	1.928	6.01	1.796	6.44	1.666	6.94	1.540	7.50	1.418	8.14	1.300	8.86	1.189	9.68
	B	238.85	170.00	1.928	6.01	1.796	6.44	1.666	6.94	1.540	7.50	1.418	8.14	1.300	8.86	1.189	9.68
	C	238.85	170.00	1.928	6.01	1.796	6.44	1.666	6.94	1.540	7.50	1.418	8.14	1.300	8.86	1.189	9.68
111.925	A	238.85	111.93	1.479	4.78	1.356	5.21	1.236	5.71	1.120	6.30	1.009	6.99	0.905	7.78	0.808	8.70
	B	238.85	111.93	1.479	4.78	1.356	5.21	1.236	5.71	1.120	6.30	1.009	6.99	0.905	7.78	0.808	8.70
	C	238.85	111.93	1.479	4.78	1.356	5.21	1.236	5.71	1.120	6.30	1.009	6.99	0.905	7.78	0.808	8.70
57.7	A	238.85	57.70	1.535	4.01	1.393	4.42	1.254	4.91	1.120	5.49	0.993	6.19	0.875	7.02	0.769	7.99
	B	238.85	57.70	1.535	4.01	1.393	4.42	1.254	4.91	1.120	5.49	0.993	6.19	0.875	7.02	0.769	7.99
	C	238.85	57.70	1.535	4.01	1.393	4.42	1.254	4.91	1.120	5.49	0.993	6.19	0.875	7.02	0.769	7.99

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 klf
LC - Lighting Cable / SO Cord	A	Yes	Ar (CfAe)	300.00 - 0.00	0.00	-0.5	1	1	1.09	1.09		0.00
Safety Line 3/8" (Ar)	B	Yes	Ar (CfAe)	300.00 - 0.00	1.50	-0.25	1	1	0.38	0.38		0.00
1/2" Heliax	B	Yes	Ar (CfAe)	260.00 - 8.00	0.00	-0.5	3	3	0.19	0.63		0.00
1-5/8" Heliax	C	Yes	Ar (CfAe)	260.00 - 8.00	0.00	0.31	6	3	0.38 0.50	1.98		0.00
1-5/8" Heliax	C	Yes	Ar (CfAe)	285.00 - 8.00	0.00	-0.31	1	1	0.38	1.98		0.00

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 klf
7/8" Heliax	C	Yes	Ar (CfAe)	94.00 - 8.00	0.00	0.03	4	1	0.50 0.38 0.50	1.09		0.00
7/8" Heliax	C	Yes	Ar (CfAe)	183.00 - 94.00	0.00	0.03	3	1	0.38 0.50	1.09		0.00
7/8" Heliax	C	Yes	Ar (CfAe)	244.00 - 183.00	0.00	0.03	2	1	0.38 0.50	1.09		0.00
EW52	C	Yes	Af (CfAe)	173.00 - 8.00	0.00	-0.12	1	1	1.74	1.74	5.55	0.00
3/8" / 5/16" / Cat5e Lines	C	Yes	Ar (CfAe)	20.01 - 8.00	0.00	-0.5	8	3	0.19	0.44		0.00
3/8" / 5/16" / Cat5e Lines	C	Yes	Ar (CfAe)	70.00 - 20.01	0.00	-0.5	7	3	0.19	0.44		0.00
3/8" / 5/16" / Cat5e Lines	C	Yes	Ar (CfAe)	93.00 - 70.00	0.00	-0.5	6	3	0.19	0.44		0.00
3/8" / 5/16" / Cat5e Lines	C	Yes	Ar (CfAe)	138.00 - 93.00	0.00	-0.5	5	3	0.19	0.44		0.00
3/8" / 5/16" / Cat5e Lines	C	Yes	Ar (CfAe)	156.00 - 138.00	0.00	-0.5	4	2	0.19	0.44		0.00
3/8" / 5/16" / Cat5e Lines	C	Yes	Ar (CfAe)	157.00 - 156.00	0.00	-0.5	3	2	0.19	0.44		0.00
3/8" / 5/16" / Cat5e Lines	C	Yes	Ar (CfAe)	158.00 - 157.00	0.00	-0.5	2	2	0.19	0.44		0.00
3/8" / 5/16" / Cat5e Lines	C	Yes	Ar (CfAe)	173.00 - 158.00	0.00	-0.5	1	1	0.19	0.44		0.00

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
T1	300.00-280.00	A	1.817	0.000	0.000	0.000	0.01
		B	0.625	0.000	0.000	0.000	0.01
		C	0.825	0.000	0.000	0.000	0.00
T2	280.00-260.00	A	1.817	0.000	0.000	0.000	0.01
		B	0.625	0.000	0.000	0.000	0.01
		C	3.300	0.000	0.000	0.000	0.02
T3	260.00-240.00	A	1.817	0.000	0.000	0.000	0.01
		B	3.775	0.000	0.000	0.000	0.02
		C	13.563	0.000	0.000	0.000	0.12
T4	240.00-220.00	A	1.817	0.000	0.000	0.000	0.01
		B	3.775	0.000	0.000	0.000	0.02
		C	15.017	0.000	0.000	0.000	0.13
T5	220.00-200.00	A	1.817	0.000	0.000	0.000	0.01
		B	3.775	0.000	0.000	0.000	0.02
		C	15.017	0.000	0.000	0.000	0.13
T6	200.00-180.00	A	1.817	0.000	0.000	0.000	0.01
		B	3.775	0.000	0.000	0.000	0.02
		C	15.017	0.000	0.000	0.000	0.13
T7	180.00-160.00	A	1.817	0.000	0.000	0.000	0.01
		B	3.775	0.000	0.000	0.000	0.02
		C	15.493	1.888	0.000	0.000	0.14
T8	160.00-140.00	A	1.817	0.000	0.000	0.000	0.01
		B	3.775	0.000	0.000	0.000	0.02
		C	16.410	2.904	0.000	0.000	0.15
T9	140.00-120.00	A	1.817	0.000	0.000	0.000	0.01
		B	3.775	0.000	0.000	0.000	0.02
		C	17.143	2.904	0.000	0.000	0.15

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
T10	120.00-100.00	A	1.817	0.000	0.000	0.000	0.01
		B	3.775	0.000	0.000	0.000	0.02
		C	17.217	2.904	0.000	0.000	0.15
T11	100.00-80.00	A	1.817	0.000	0.000	0.000	0.01
		B	3.775	0.000	0.000	0.000	0.02
		C	17.217	2.904	0.000	0.000	0.16
T12	80.00-60.00	A	1.817	0.000	0.000	0.000	0.01
		B	3.775	0.000	0.000	0.000	0.02
		C	17.217	2.904	0.000	0.000	0.16
T13	60.00-40.00	A	1.817	0.000	0.000	0.000	0.01
		B	3.775	0.000	0.000	0.000	0.02
		C	17.217	2.904	0.000	0.000	0.16
T14	40.00-20.00	A	1.817	0.000	0.000	0.000	0.01
		B	3.775	0.000	0.000	0.000	0.02
		C	17.217	2.904	0.000	0.000	0.16
T15	20.00-6.71	A	1.207	0.000	0.000	0.000	0.00
		B	2.305	0.000	0.000	0.000	0.01
		C	10.330	1.743	0.000	0.000	0.10
T16	6.71-5.00	A	0.155	0.000	0.000	0.000	0.00
		B	0.053	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.00
T17	5.00-0.00	A	0.454	0.000	0.000	0.000	0.00
		B	0.156	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.00

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
T1	300.00-280.00	A	0.500	3.483	0.000	0.000	0.000	0.03
		B		2.292	0.000	0.000	0.000	0.02
		C		1.242	0.000	0.000	0.000	0.01
T2	280.00-260.00	A	0.500	3.483	0.000	0.000	0.000	0.03
		B		2.292	0.000	0.000	0.000	0.02
		C		4.967	0.000	0.000	0.000	0.05
T3	260.00-240.00	A	0.500	3.483	0.000	0.000	0.000	0.03
		B		5.008	2.725	0.000	0.000	0.06
		C		10.630	7.850	0.000	0.000	0.32
T4	240.00-220.00	A	0.500	3.483	0.000	0.000	0.000	0.03
		B		5.008	2.725	0.000	0.000	0.06
		C		13.417	7.850	0.000	0.000	0.37
T5	220.00-200.00	A	0.500	3.483	0.000	0.000	0.000	0.03
		B		5.008	2.725	0.000	0.000	0.06
		C		13.417	7.850	0.000	0.000	0.37
T6	200.00-180.00	A	0.500	3.483	0.000	0.000	0.000	0.03
		B		5.008	2.725	0.000	0.000	0.06
		C		13.417	7.850	0.000	0.000	0.37
T7	180.00-160.00	A	0.500	3.483	0.000	0.000	0.000	0.03
		B		5.008	2.725	0.000	0.000	0.06
		C		14.977	10.460	0.000	0.000	0.43
T8	160.00-140.00	A	0.500	3.483	0.000	0.000	0.000	0.03
		B		5.008	2.725	0.000	0.000	0.06
		C		15.817	12.807	0.000	0.000	0.46
T9	140.00-120.00	A	0.500	3.483	0.000	0.000	0.000	0.03
		B		5.008	2.725	0.000	0.000	0.06
		C		15.817	13.852	0.000	0.000	0.47
T10	120.00-100.00	A	0.500	3.483	0.000	0.000	0.000	0.03

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		B		5.008	2.725	0.000	0.000	0.06
		C		15.817	13.957	0.000	0.000	0.47
T11	100.00-80.00	A	0.500	3.483	0.000	0.000	0.000	0.03
		B		5.008	2.725	0.000	0.000	0.06
		C		15.817	13.957	0.000	0.000	0.49
T12	80.00-60.00	A	0.500	3.483	0.000	0.000	0.000	0.03
		B		5.008	2.725	0.000	0.000	0.06
		C		15.817	13.957	0.000	0.000	0.50
T13	60.00-40.00	A	0.500	3.483	0.000	0.000	0.000	0.03
		B		5.008	2.725	0.000	0.000	0.06
		C		15.817	13.957	0.000	0.000	0.51
T14	40.00-20.00	A	0.500	3.483	0.000	0.000	0.000	0.03
		B		5.008	2.725	0.000	0.000	0.06
		C		15.817	13.957	0.000	0.000	0.51
T15	20.00-6.71	A	0.500	2.315	0.000	0.000	0.000	0.02
		B		3.153	1.635	0.000	0.000	0.04
		C		9.490	8.374	0.000	0.000	0.31
T16	6.71-5.00	A	0.500	0.298	0.000	0.000	0.000	0.00
		B		0.196	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.00
T17	5.00-0.00	A	0.500	0.871	0.000	0.000	0.000	0.01
		B		0.573	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.00

Feed Line Shielding

Section	Elevation ft	Face	A_R ft^2	A_R Ice ft^2	A_F ft^2	A_F Ice ft^2
T1	300.00-280.00	A	0.107	0.567	0.000	0.000
		B	0.037	0.373	0.000	0.000
		C	0.057	0.241	0.000	0.000
T2	280.00-260.00	A	0.107	0.567	0.000	0.000
		B	0.037	0.373	0.000	0.000
		C	0.229	0.963	0.000	0.000
T3	260.00-240.00	A	0.120	0.592	0.000	0.000
		B	0.250	1.314	0.000	0.000
		C	1.040	3.718	0.000	0.000
T4	240.00-220.00	A	0.120	0.592	0.000	0.000
		B	0.250	1.314	0.000	0.000
		C	1.152	4.279	0.000	0.000
T5	220.00-200.00	A	0.107	0.567	0.000	0.000
		B	0.223	1.258	0.000	0.000
		C	1.043	4.125	0.000	0.000
T6	200.00-180.00	A	0.107	0.567	0.000	0.000
		B	0.223	1.258	0.000	0.000
		C	1.043	4.125	0.000	0.000
T7	180.00-160.00	A	0.107	0.567	0.000	0.000
		B	0.223	1.258	0.000	0.000
		C	1.208	5.004	0.000	0.000
T8	160.00-140.00	A	0.107	0.567	0.000	0.000
		B	0.223	1.258	0.000	0.000
		C	1.342	5.660	0.000	0.000
T9	140.00-120.00	A	0.107	0.567	0.000	0.000
		B	0.223	1.258	0.000	0.000
		C	1.393	5.863	0.000	0.000
T10	120.00-100.00	A	0.107	0.567	0.000	0.000

Section	Elevation	Face	A_R	A_R Ice	A_F	A_F Ice
	ft		ft^2	ft^2	ft^2	ft^2
		B	0.223	1.258	0.000	0.000
		C	1.398	5.883	0.000	0.000
T11	100.00-80.00	A	0.107	0.567	0.000	0.000
		B	0.223	1.258	0.000	0.000
		C	1.398	5.883	0.000	0.000
T12	80.00-60.00	A	0.107	0.567	0.000	0.000
		B	0.223	1.258	0.000	0.000
		C	1.398	5.883	0.000	0.000
T13	60.00-40.00	A	0.107	0.567	0.000	0.000
		B	0.223	1.258	0.000	0.000
		C	1.398	5.883	0.000	0.000
T14	40.00-20.00	A	0.107	0.567	0.000	0.000
		B	0.223	1.258	0.000	0.000
		C	1.398	5.883	0.000	0.000
T15	20.00-6.71	A	0.072	0.377	0.000	0.000
		B	0.137	0.780	0.000	0.000
		C	0.848	3.563	0.000	0.000
T16	6.71-5.00	A	0.015	0.083	0.000	0.000
		B	0.005	0.055	0.000	0.000
		C	0.000	0.000	0.000	0.000
T17	5.00-0.00	A	0.000	0.058	0.121	0.232
		B	0.000	0.038	0.042	0.153
		C	0.000	0.000	0.000	0.000

Feed Line Center of Pressure

Section	Elevation	CP_X	CP_Z	CP_X Ice	CP_Z Ice
	ft	in	in	in	in
T1	300.00-280.00	-0.57	0.52	-0.42	0.19
T2	280.00-260.00	0.17	1.20	0.04	0.64
T3	260.00-240.00	-1.66	1.97	-0.55	0.90
T4	240.00-220.00	-1.53	2.06	-0.54	1.10
T5	220.00-200.00	-1.57	2.11	-0.56	1.12
T6	200.00-180.00	-1.67	2.24	-0.57	1.16
T7	180.00-160.00	-1.33	2.55	-0.26	1.47
T8	160.00-140.00	-0.97	2.75	-0.32	1.46
T9	140.00-120.00	-0.76	2.83	-0.22	1.50
T10	120.00-100.00	-0.71	2.69	-0.20	1.47
T11	100.00-80.00	-0.71	2.71	-0.20	1.49
T12	80.00-60.00	-0.71	2.72	-0.20	1.50
T13	60.00-40.00	-0.71	2.73	-0.20	1.50
T14	40.00-20.00	-0.71	2.73	-0.20	1.50
T15	20.00-6.71	-0.71	2.59	-0.23	1.40
T16	6.71-5.00	-0.63	0.20	-0.40	0.02
T17	5.00-0.00	-0.30	-0.06	-0.26	-0.17

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
4' Lightning Rod	B	From Leg	0.00 0.00 2.00	0.00	300.00	No Ice 1/2" Ice	0.20 0.61	0.20 0.61	0.00 0.01
L-Lighting Beacon	A	From Leg	0.00 0.00 0.00	0.00	300.00	No Ice 1/2" Ice	1.18 1.68	1.18 1.68	0.05 0.08
L-Side Light / Obstruction Light	A	From Leg	0.50 0.00 0.00	0.00	150.00	No Ice 1/2" Ice	0.27 0.35	0.27 0.35	0.01 0.01
L-Side Light / Obstruction Light	B	From Leg	0.50 0.00 0.00	0.00	150.00	No Ice 1/2" Ice	0.27 0.35	0.27 0.35	0.01 0.01
L-Side Light / Obstruction Light	C	From Leg	0.50 0.00 0.00	0.00	150.00	No Ice 1/2" Ice	0.27 0.35	0.27 0.35	0.01 0.01
2'x2' Ice Shield / Rest Platform	A	From Leg	1.50 0.00 0.00	0.00	153.00	No Ice 1/2" Ice	1.27 1.79	0.57 1.02	0.06 0.07
2'x2' Ice Shield / Rest Platform	B	From Leg	1.50 0.00 0.00	0.00	153.00	No Ice 1/2" Ice	1.27 1.79	0.57 1.02	0.06 0.07
2'x2' Ice Shield / Rest Platform	C	From Leg	1.50 0.00 0.00	0.00	153.00	No Ice 1/2" Ice	1.27 1.79	0.57 1.02	0.06 0.07
FML-2E-Radomes (1-5/8" Heliax)	A	From Leg	2.00 0.00 0.00	0.00	285.00 - 295.00	No Ice 1/2" Ice	11.00 14.00	11.00 14.00	0.22 0.35
Dish Mount	B	From Leg	0.50 0.00 0.00	0.00	173.00	No Ice 1/2" Ice	2.78 3.44	2.78 3.44	0.08 0.10
Dish Mount	B	From Leg	0.50 0.00 0.00	0.00	94.00	No Ice 1/2" Ice	2.78 3.44	2.78 3.44	0.08 0.10
BXA-70063/6CF_ ((6) 1-5/8" Heliax)	A	From Leg	2.50 -3.50 0.00	0.00	260.00	No Ice 1/2" Ice	6.76 7.47	3.56 4.30	0.02 0.06
60" x 12" x 4" Panel Antenna - Assumed	A	From Leg	2.50 0.00 0.00	0.00	260.00	No Ice 1/2" Ice	6.56 7.22	2.78 3.53	0.03 0.06
60" x 12" x 4" Panel Antenna - Assumed	A	From Leg	2.50 3.50 0.00	0.00	260.00	No Ice 1/2" Ice	6.56 7.22	2.78 3.53	0.03 0.06
BXA-70063/6CF_	B	From Leg	2.50 -3.50 0.00	0.00	260.00	No Ice 1/2" Ice	6.76 7.47	3.56 4.30	0.02 0.06
60" x 12" x 4" Panel Antenna - Assumed	B	From Leg	2.50 0.00 0.00	0.00	260.00	No Ice 1/2" Ice	6.56 7.22	2.78 3.53	0.03 0.06
60" x 12" x 4" Panel Antenna - Assumed	B	From Leg	2.50 3.50 0.00	0.00	260.00	No Ice 1/2" Ice	6.56 7.22	2.78 3.53	0.03 0.06
BXA-70063/6CF_	C	From Leg	2.50 -3.50 0.00	0.00	260.00	No Ice 1/2" Ice	6.76 7.47	3.56 4.30	0.02 0.06
60" x 12" x 4" Panel Antenna - Assumed	C	From Leg	2.50 0.00 0.00	0.00	260.00	No Ice 1/2" Ice	6.56 7.22	2.78 3.53	0.03 0.06

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
60" x 12" x 4" Panel Antenna - Assumed	C	From Leg	2.50 3.50 0.00	0.00	260.00	No Ice 1/2" Ice	6.56 7.22	2.78 3.53	0.03 0.06
(3) TMA/TTA(s)	C	None		0.00	260.00	No Ice 1/2" Ice	2.13 2.41	0.68 0.87	0.03 0.05
(3) 10' Gate Mount(s)	C	None		0.00	260.00	No Ice 1/2" Ice	10.37 15.44	8.56 14.14	0.33 0.46
BXA-70063/6CF Antenna Assumed ((2) 7/8" Heliax)	A	From Leg	2.50 -3.50 0.00	0.00	244.00	No Ice 1/2" Ice	6.76 7.47	3.56 4.30	0.02 0.06
BXA-70063/6CF Antenna Assumed	B	From Leg	2.50 0.00 0.00	0.00	244.00	No Ice 1/2" Ice	6.76 7.47	3.56 4.30	0.02 0.06
BXA-70063/6CF Antenna Assumed	C	From Leg	2.50 3.50 0.00	0.00	244.00	No Ice 1/2" Ice	6.76 7.47	3.56 4.30	0.02 0.06
(3) TMA/TTA(s)	C	None		0.00	244.00	No Ice 1/2" Ice	2.13 2.41	0.68 0.87	0.03 0.05
(3) 10' Gate Mount(s)	C	None		0.00	244.00	No Ice 1/2" Ice	10.37 15.44	8.56 14.14	0.33 0.46
5' Paraflector (7/8" Heliax)	C	None		0.00	183.00	No Ice 1/2" Ice	6.35 11.43	6.35 11.43	0.04 0.05
24" x 24" Panel Antenna(s) (Cat 5)	B	From Leg	1.00 0.00 0.00	0.00	158.00	No Ice 1/2" Ice	4.80 5.21	1.45 1.72	0.05 0.08
3' Typ. Omni/Whip Antenna(s) (Cat 5)	B	From Leg	1.00 0.00 0.00	0.00	157.00	No Ice 1/2" Ice	1.05 1.67	1.05 1.67	0.02 0.03
1' Sidearm(s)	B	From Leg	0.50 0.00 0.00	0.00	157.00	No Ice 1/2" Ice	0.80 1.05	0.45 0.93	0.05 0.07
3' Typ. Omni/Whip Antenna(s) (Cat 5)	A	From Leg	1.00 0.00 0.00	0.00	156.00	No Ice 1/2" Ice	1.05 1.67	1.05 1.67	0.02 0.03
1' Sidearm(s)	A	From Leg	0.50 0.00 0.00	0.00	156.00	No Ice 1/2" Ice	0.80 1.05	0.45 0.93	0.05 0.07
12" x 12" Panel Antenna(s) (Cat 5)	A	From Leg	1.00 0.00 0.00	0.00	93.00	No Ice 1/2" Ice	1.20 1.41	0.32 0.46	0.01 0.02
14" x 14" Panel Antenna(s) (Cat 5)	A	From Leg	1.00 0.00 0.00	0.00	70.00	No Ice 1/2" Ice	1.63 1.88	0.48 0.65	0.02 0.03
Typ. Yagi Antenna(s) (Cat 5)	B	From Leg	1.00 0.00 0.00	0.00	17.00	No Ice 1/2" Ice	1.25 2.30	1.25 2.30	0.02 0.25

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 ft²	Weight K
6' HP Dish (EW52)	B	Paraboloid w/Shroud (HP)	From Leg	1.00 0.00 0.00	22.00		173.00	6.00	No Ice 1/2" Ice	28.27 29.07	0.29 0.44
2' Std. Dish w/o Radome (3/8" Heliax)	A	Paraboloid w/o Radome	From Leg	1.00 0.00 0.00	41.00		173.00	2.00	No Ice 1/2" Ice	3.14 3.41	0.04 0.06
2' Std. Dish w/o Radome (5/16" Heliax)	C	Paraboloid w/o Radome	From Leg	1.00 0.00 0.00	-10.00		138.00	2.00	No Ice 1/2" Ice	3.14 3.41	0.04 0.06
3' Std. Dish w/o Radome (7/8" Heliax)	B	Paraboloid w/o Radome	From Leg	1.00 0.00 0.00	-50.00		94.00	3.00	No Ice 1/2" Ice	7.07 7.47	0.09 0.13

Load Combinations

Comb. No.	Description
1	Dead Only
2	Dead+Wind 0 deg - No Ice+Guy
3	Dead+Wind 30 deg - No Ice+Guy
4	Dead+Wind 60 deg - No Ice+Guy
5	Dead+Wind 90 deg - No Ice+Guy
6	Dead+Wind 120 deg - No Ice+Guy
7	Dead+Wind 150 deg - No Ice+Guy
8	Dead+Wind 180 deg - No Ice+Guy
9	Dead+Wind 210 deg - No Ice+Guy
10	Dead+Wind 240 deg - No Ice+Guy
11	Dead+Wind 270 deg - No Ice+Guy
12	Dead+Wind 300 deg - No Ice+Guy
13	Dead+Wind 330 deg - No Ice+Guy
14	Dead+Ice+Temp+Guy
15	Dead+Wind 0 deg+Ice+Temp+Guy
16	Dead+Wind 30 deg+Ice+Temp+Guy
17	Dead+Wind 60 deg+Ice+Temp+Guy
18	Dead+Wind 90 deg+Ice+Temp+Guy
19	Dead+Wind 120 deg+Ice+Temp+Guy
20	Dead+Wind 150 deg+Ice+Temp+Guy
21	Dead+Wind 180 deg+Ice+Temp+Guy
22	Dead+Wind 210 deg+Ice+Temp+Guy
23	Dead+Wind 240 deg+Ice+Temp+Guy
24	Dead+Wind 270 deg+Ice+Temp+Guy
25	Dead+Wind 300 deg+Ice+Temp+Guy
26	Dead+Wind 330 deg+Ice+Temp+Guy
27	Dead+Wind 0 deg - Service+Guy
28	Dead+Wind 30 deg - Service+Guy
29	Dead+Wind 60 deg - Service+Guy
30	Dead+Wind 90 deg - Service+Guy
31	Dead+Wind 120 deg - Service+Guy
32	Dead+Wind 150 deg - Service+Guy
33	Dead+Wind 180 deg - Service+Guy
34	Dead+Wind 210 deg - Service+Guy
35	Dead+Wind 240 deg - Service+Guy
36	Dead+Wind 270 deg - Service+Guy
37	Dead+Wind 300 deg - Service+Guy
38	Dead+Wind 330 deg - Service+Guy

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Force K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
T1	300 - 280	Leg	Max Tension	17	4.56	-0.02	0.03
			Max. Compression	15	-5.53	0.00	0.01
			Max. Mx	18	-1.19	0.16	0.02
			Max. My	25	3.51	-0.07	-0.13
			Max. Vy	18	0.46	-0.01	-0.00
			Max. Vx	25	-0.35	0.01	0.00
		Diagonal	Max Tension	25	1.46	0.00	0.00
			Max. Compression	17	-1.45	0.00	0.00
			Max. Mx	19	-1.44	0.00	0.00
			Max. My	24	-0.07	0.00	-0.00
			Max. Vy	19	-0.00	0.00	0.00
			Max. Vx	24	0.00	0.00	0.00
		Horizontal	Max Tension	17	0.15	0.00	0.00
			Max. Compression	23	-0.16	0.00	0.00
			Max. Mx	25	0.07	0.00	0.00
			Max. My	18	0.05	0.00	-0.00
			Max. Vy	25	-0.00	0.00	0.00
			Max. Vx	18	0.00	0.00	0.00
		Secondary Horizontal	Max Tension	23	0.00	-0.00	-0.00
			Max. Compression	19	-0.00	-0.00	-0.00
			Max. Mx	23	0.00	-0.00	-0.00
			Max. My	15	0.00	-0.00	0.00
			Max. Vy	23	0.00	-0.00	-0.00
			Max. Vx	15	-0.00	0.00	0.00
		Top Girt	Max Tension	25	0.04	0.00	0.00
			Max. Compression	19	-0.04	0.00	0.00
			Max. Mx	22	0.00	0.00	0.00
			Max. My	18	-0.04	0.00	-0.00
			Max. Vy	22	-0.00	0.00	0.00
			Max. Vx	18	0.00	0.00	0.00
		Bottom Girt	Max Tension	19	0.62	0.00	0.00
			Max. Compression	25	-0.52	0.00	0.00
			Max. Mx	14	0.02	0.00	0.00
			Max. My	18	0.59	0.00	-0.00
			Max. Vy	14	0.00	0.00	0.00
			Max. Vx	18	0.00	0.00	0.00
T2	280 - 260	Leg	Max Tension	10	13.05	0.09	0.02
			Max. Compression	21	-19.06	0.02	0.11
			Max. Mx	18	-1.20	-0.18	-0.02
			Max. My	16	-2.99	-0.06	0.15
			Max. Vy	5	-0.59	-0.11	-0.09
			Max. Vx	7	-0.51	-0.06	-0.10
		Diagonal	Max Tension	5	2.23	0.00	0.00
			Max. Compression	5	-2.20	0.00	0.00
			Max. Mx	19	0.91	0.00	0.00
			Max. My	24	0.06	0.00	-0.00
			Max. Vy	19	-0.00	0.00	0.00
			Max. Vx	24	0.00	0.00	0.00
		Horizontal	Max Tension	21	0.32	0.00	0.00
			Max. Compression	21	-0.32	0.00	0.00
			Max. Mx	22	0.29	0.00	0.00
			Max. My	18	0.09	0.00	-0.00
			Max. Vy	22	-0.00	0.00	0.00
			Max. Vx	18	0.00	0.00	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Force K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
		Secondary Horizontal	Max Tension	23	0.00	-0.00	-0.00
			Max. Compression	19	-0.00	-0.00	-0.00
			Max. Mx	23	0.00	-0.00	-0.00
			Max. My	15	0.00	-0.00	0.00
			Max. Vy	23	0.00	-0.00	-0.00
			Max. Vx	15	-0.00	0.00	0.00
		Top Girt	Max Tension	26	3.03	0.00	0.00
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	20	2.29	0.00	0.00
			Max. My	18	0.92	0.00	-0.00
			Max. Vy	14	0.00	0.00	0.00
			Max. Vx	18	0.00	0.00	0.00
		Bottom Girt	Max Tension	4	0.79	0.00	0.00
			Max. Compression	10	-0.74	0.00	0.00
			Max. Mx	25	-0.43	0.00	0.00
			Max. My	18	-0.24	0.00	-0.00
			Max. Vy	25	-0.00	0.00	0.00
			Max. Vx	18	0.00	0.00	0.00
		Guy A	Bottom Tension	21	8.19		
			Top Tension	21	8.46		
			Top Cable Vert	21	6.64		
			Top Cable Norm	21	5.24		
			Top Cable Tan	21	0.00		
			Bot Cable Vert	21	-5.98		
			Bot Cable Norm	21	5.60		
			Bot Cable Tan	21	0.00		
		Guy B	Bottom Tension	25	8.22		
			Top Tension	25	8.48		
			Top Cable Vert	25	6.66		
			Top Cable Norm	25	5.26		
			Top Cable Tan	25	0.00		
			Bot Cable Vert	25	-6.00		
			Bot Cable Norm	25	5.62		
			Bot Cable Tan	25	0.00		
		Guy C	Bottom Tension	17	8.23		
			Top Tension	17	8.50		
			Top Cable Vert	17	6.67		
			Top Cable Norm	17	5.27		
			Top Cable Tan	17	0.00		
			Bot Cable Vert	17	-6.01		
			Bot Cable Norm	17	5.63		
			Bot Cable Tan	17	0.00		
T3	260 - 240	Leg	Max Tension	10	13.04	-0.10	0.06
			Max. Compression	21	-19.75	0.00	0.02
			Max. Mx	18	-7.81	0.36	-0.03
			Max. My	21	-4.09	-0.06	0.30
			Max. Vy	18	1.25	-0.11	0.02
			Max. Vx	21	1.11	0.04	-0.11
		Diagonal	Max Tension	22	4.11	0.00	0.00
			Max. Compression	16	-4.15	0.00	0.00
			Max. Mx	17	2.83	0.00	0.00
			Max. My	24	-1.74	0.00	-0.00
			Max. Vy	17	0.00	0.00	0.00
			Max. Vx	24	0.00	0.00	0.00
		Horizontal	Max Tension	8	0.69	0.00	0.00
			Max. Compression	2	-0.64	0.00	0.00
			Max. Mx	15	0.21	0.00	0.00
			Max. My	24	0.29	0.00	-0.00
			Max. Vy	15	-0.00	0.00	0.00
			Max. Vx	24	-0.00	0.00	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Force K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
		Secondary Horizontal	Max Tension	17	0.00	-0.00	-0.00
			Max. Compression	25	-0.00	-0.00	-0.00
			Max. Mx	20	0.00	-0.00	0.00
			Max. My	21	-0.00	-0.00	0.00
			Max. Vy	20	0.00	-0.00	0.00
			Max. Vx	21	-0.00	0.00	0.00
		Top Girt	Max Tension	25	0.51	0.00	0.00
			Max. Compression	6	-0.49	0.00	0.00
			Max. Mx	25	0.04	0.00	0.00
			Max. My	18	-0.22	0.00	0.00
			Max. Vy	25	-0.00	0.00	0.00
			Max. Vx	18	-0.00	0.00	0.00
		Bottom Girt	Max Tension	15	1.38	0.00	0.00
			Max. Compression	21	-1.37	0.00	0.00
			Max. Mx	14	0.01	0.00	0.00
			Max. My	24	0.69	0.00	-0.00
			Max. Vy	14	-0.00	0.00	0.00
			Max. Vx	24	-0.00	0.00	0.00
T4	240 - 220	Leg	Max Tension	25	13.07	0.00	-0.04
			Max. Compression	23	-24.09	-0.02	-0.05
			Max. Mx	24	-8.51	0.59	-0.05
			Max. My	21	-4.09	0.14	-0.53
			Max. Vy	18	1.24	-0.57	0.07
			Max. Vx	21	1.11	0.14	-0.53
		Diagonal	Max Tension	16	4.55	0.00	0.00
			Max. Compression	22	-4.68	0.00	0.00
			Max. Mx	17	4.31	0.00	0.00
			Max. My	24	-2.64	0.00	-0.00
			Max. Vy	17	0.00	0.00	0.00
			Max. Vx	24	0.00	0.00	0.00
		Horizontal	Max Tension	25	4.31	0.00	0.00
			Max. Compression	17	-0.53	0.00	0.00
			Max. Mx	23	0.12	0.00	0.00
			Max. My	24	0.38	0.00	-0.00
			Max. Vy	23	-0.00	0.00	0.00
			Max. Vx	24	-0.00	0.00	0.00
		Secondary Horizontal	Max Tension	17	0.00	-0.00	-0.00
			Max. Compression	25	-0.00	-0.00	-0.00
			Max. Mx	20	0.00	-0.00	0.00
			Max. My	21	-0.00	-0.00	0.00
			Max. Vy	20	0.00	-0.00	0.00
			Max. Vx	21	-0.00	0.00	0.00
		Top Girt	Max Tension	21	1.57	0.00	0.00
			Max. Compression	15	-1.51	0.00	0.00
			Max. Mx	14	0.02	0.00	0.00
			Max. My	24	-0.76	0.00	-0.00
			Max. Vy	14	-0.00	0.00	0.00
			Max. Vx	24	-0.00	0.00	0.00
		Bottom Girt	Max Tension	17	0.82	0.00	0.00
			Max. Compression	23	-0.74	0.00	0.00
			Max. Mx	23	-0.09	0.00	0.00
			Max. My	24	-0.56	0.00	-0.00
			Max. Vy	23	-0.00	0.00	0.00
			Max. Vx	24	-0.00	0.00	0.00
		Guy A	Bottom Tension	21	10.81		
			Top Tension	21	11.07		
			Top Cable Vert	21	7.88		
			Top Cable Norm	21	7.77		
			Top Cable Tan	21	0.00		

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Force K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Bot Cable Vert	21	-7.25		
			Bot Cable Norm	21	8.02		
			Bot Cable Tan	21	0.00		
		Guy B	Bottom Tension	25	10.79		
			Top Tension	25	11.05		
			Top Cable Vert	25	7.87		
			Top Cable Norm	25	7.76		
			Top Cable Tan	25	0.00		
			Bot Cable Vert	25	-7.24		
			Bot Cable Norm	25	8.01		
			Bot Cable Tan	25	0.00		
		Guy C	Bottom Tension	17	10.73		
			Top Tension	17	10.98		
			Top Cable Vert	17	7.82		
			Top Cable Norm	17	7.71		
			Top Cable Tan	17	0.00		
			Bot Cable Vert	17	-7.19		
			Bot Cable Norm	17	7.96		
			Bot Cable Tan	17	0.00		
T5	220 - 200	Leg	Max Tension	1	0.00	0.00	0.00
			Max. Compression	15	-17.74	-0.02	-0.13
			Max. Mx	23	-16.21	-0.22	-0.07
			Max. My	22	-11.86	-0.10	0.25
			Max. Vy	18	-0.58	-0.02	-0.02
			Max. Vx	22	-0.62	-0.02	0.01
		Diagonal	Max Tension	4	2.07	0.00	0.00
			Max. Compression	10	-2.10	0.00	0.00
			Max. Mx	17	-0.11	0.00	0.00
			Max. My	24	-0.26	0.00	-0.00
			Max. Vy	17	-0.00	0.00	0.00
			Max. Vx	24	0.00	0.00	0.00
		Horizontal	Max Tension	21	0.31	0.00	0.00
			Max. Compression	15	-0.30	0.00	0.00
			Max. Mx	14	0.14	0.00	0.00
			Max. Vy	14	-0.00	0.00	0.00
			Max. Vx	24	-0.00	0.00	0.00
		Secondary Horizontal	Max Tension	16	0.00	-0.00	-0.00
			Max. Compression	25	-0.00	-0.00	-0.00
			Max. Mx	20	-0.00	-0.00	0.00
			Max. My	8	-0.00	-0.00	0.00
			Max. Vy	20	0.00	-0.00	0.00
			Max. Vx	8	-0.00	0.00	0.00
		Top Girt	Max Tension	23	0.77	0.00	0.00
			Max. Compression	4	-0.72	0.00	0.00
			Max. Mx	23	0.16	0.00	0.00
			Max. My	24	0.58	0.00	-0.00
			Max. Vy	23	-0.00	0.00	0.00
			Max. Vx	24	-0.00	0.00	0.00
		Bottom Girt	Max Tension	4	0.57	0.00	0.00
			Max. Compression	10	-0.49	0.00	0.00
			Max. Mx	14	0.02	0.00	0.00
			Max. Vy	14	-0.00	0.00	0.00
			Max. Vx	7	0.00	0.00	0.00
T6	200 - 180	Leg	Max Tension	1	0.00	0.00	0.00
			Max. Compression	23	-15.61	-0.01	-0.02
			Max. Mx	17	-13.98	0.23	-0.06
			Max. My	16	-8.21	-0.01	-0.20
			Max. Vy	23	-0.58	0.03	-0.00
			Max. Vx	22	0.49	-0.01	-0.02
		Diagonal	Max Tension	9	1.88	0.00	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Force K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Compression	16	-1.88	0.00	0.00
			Max. Mx	15	0.69	0.00	0.00
			Max. My	22	0.38	0.00	0.00
			Max. Vy	15	-0.00	0.00	0.00
			Max. Vx	22	-0.00	0.00	0.00
		Horizontal	Max Tension	17	0.34	0.00	0.00
			Max. Compression	23	-0.27	0.00	0.00
			Max. Mx	19	0.20	0.00	0.00
			Max. Vy	19	-0.00	0.00	0.00
			Max. Vx	7	0.00	0.00	0.00
		Secondary Horizontal	Max Tension	23	0.00	-0.00	-0.00
			Max. Compression	19	-0.00	-0.00	-0.00
			Max. Mx	23	0.00	-0.00	0.00
			Max. My	15	-0.00	-0.00	0.00
			Max. Vy	23	0.00	-0.00	0.00
			Max. Vx	15	-0.00	-0.00	0.00
		Top Girt	Max Tension	10	0.45	0.00	0.00
			Max. Compression	4	-0.45	0.00	0.00
			Max. Mx	14	0.02	0.00	0.00
			Max. Vy	14	-0.00	0.00	0.00
			Max. Vx	7	0.00	0.00	0.00
		Bottom Girt	Max Tension	16	0.65	0.00	0.00
			Max. Compression	9	-0.62	0.00	0.00
			Max. Mx	16	0.34	0.00	0.00
			Max. Vy	16	-0.00	0.00	0.00
			Max. Vx	9	0.00	0.00	0.00
T7	180 - 160	Leg	Max Tension	1	0.00	0.00	0.00
			Max. Compression	23	-21.87	-0.02	-0.05
			Max. Mx	18	-14.21	-0.26	-0.07
			Max. My	15	-15.79	-0.02	0.26
			Max. Vy	24	0.73	0.26	0.03
			Max. Vx	15	0.63	0.02	0.24
		Diagonal	Max Tension	24	2.26	0.00	0.00
			Max. Compression	24	-2.19	0.00	0.00
			Max. Mx	23	1.89	0.00	0.00
			Max. My	22	0.79	0.00	0.00
			Max. Vy	23	-0.00	0.00	0.00
			Max. Vx	22	-0.00	0.00	0.00
		Horizontal	Max Tension	25	3.27	0.00	0.00
			Max. Compression	23	-0.38	0.00	0.00
			Max. Mx	25	0.29	0.00	0.00
			Max. My	23	0.38	0.00	-0.00
			Max. Vy	25	-0.00	0.00	0.00
			Max. Vx	23	-0.00	0.00	0.00
		Secondary Horizontal	Max Tension	23	0.00	-0.00	-0.00
			Max. Compression	19	-0.00	-0.00	-0.00
			Max. Mx	23	0.00	-0.00	-0.00
			Max. My	15	-0.00	-0.00	0.00
			Max. Vy	23	0.00	-0.00	-0.00
			Max. Vx	15	-0.00	-0.00	0.00
		Top Girt	Max Tension	9	0.67	0.00	0.00
			Max. Compression	16	-0.62	0.00	0.00
			Max. Mx	14	0.01	0.00	0.00
			Max. Vy	14	-0.00	0.00	0.00
			Max. Vx	9	0.00	0.00	0.00
		Bottom Girt	Max Tension	17	0.75	0.00	0.00
			Max. Compression	23	-0.80	0.00	0.00
			Max. Mx	14	0.04	0.00	0.00
			Max. My	23	-0.80	0.00	-0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Force K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vy	14	-0.00	0.00	0.00
			Max. Vx	23	-0.00	0.00	0.00
		Guy A	Bottom Tension	21	6.72		
			Top Tension	21	6.85		
			Top Cable Vert	21	4.11		
			Top Cable Norm	21	5.48		
			Top Cable Tan	21	0.00		
			Bot Cable Vert	21	-3.73		
			Bot Cable Norm	21	5.59		
			Bot Cable Tan	21	0.00		
		Guy B	Bottom Tension	25	6.83		
			Top Tension	25	6.96		
			Top Cable Vert	25	4.18		
			Top Cable Norm	25	5.57		
			Top Cable Tan	25	0.00		
			Bot Cable Vert	25	-3.79		
			Bot Cable Norm	25	5.68		
			Bot Cable Tan	25	0.00		
		Guy C	Bottom Tension	17	6.63		
			Top Tension	17	6.77		
			Top Cable Vert	17	4.06		
			Top Cable Norm	17	5.41		
			Top Cable Tan	17	0.00		
			Bot Cable Vert	17	-3.68		
			Bot Cable Norm	17	5.52		
			Bot Cable Tan	17	0.00		
T8	160 - 140	Leg	Max Tension	1	0.00	0.00	0.00
			Max. Compression	25	-24.38	-0.01	-0.05
			Max. Mx	24	-11.22	-0.29	-0.08
			Max. My	15	-11.20	0.04	-0.24
			Max. Vy	24	0.72	-0.02	-0.03
			Max. Vx	15	0.63	0.03	-0.00
		Diagonal	Max Tension	18	1.86	0.00	0.00
			Max. Compression	24	-2.31	0.00	0.00
			Max. Mx	23	1.23	0.00	0.00
			Max. My	22	0.28	0.00	0.00
			Max. Vy	23	0.00	0.00	0.00
			Max. Vx	22	-0.00	0.00	0.00
		Horizontal	Max Tension	25	0.42	0.00	0.00
			Max. Compression	25	-0.42	0.00	0.00
			Max. Mx	23	0.34	0.00	0.00
			Max. My	23	0.34	0.00	-0.00
			Max. Vy	23	-0.00	0.00	0.00
			Max. Vx	23	-0.00	0.00	0.00
		Secondary Horizontal	Max Tension	23	0.00	-0.00	-0.00
			Max. Compression	19	-0.00	-0.00	-0.00
			Max. Mx	23	0.00	-0.00	-0.00
			Max. My	13	-0.00	-0.00	0.00
			Max. Vy	23	0.00	-0.00	-0.00
			Max. Vx	13	-0.00	0.00	0.00
		Top Girt	Max Tension	23	0.81	0.00	0.00
			Max. Compression	17	-0.64	0.00	0.00
			Max. Mx	14	0.01	0.00	0.00
			Max. My	23	0.81	0.00	-0.00
			Max. Vy	14	-0.00	0.00	0.00
			Max. Vx	23	-0.00	0.00	0.00
		Bottom Girt	Max Tension	19	0.16	0.00	0.00
			Max. Compression	11	-0.27	0.00	0.00
			Max. Mx	14	0.04	0.00	0.00
			Max. My	16	0.04	0.00	-0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Force K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vy	14	-0.00	0.00	0.00
			Max. Vx	16	0.00	0.00	0.00
T9	140 - 120	Leg	Max Tension	1	0.00	0.00	0.00
			Max. Compression	25	-24.01	-0.04	0.11
			Max. Mx	18	-14.27	0.18	-0.01
			Max. My	21	-14.68	-0.00	0.16
			Max. Vy	24	-0.57	0.10	0.00
			Max. Vx	15	-0.53	0.03	0.05
		Diagonal	Max Tension	25	1.47	0.00	0.00
			Max. Compression	20	-1.52	0.00	0.00
			Max. Mx	26	1.44	0.00	0.00
			Max. My	22	-0.74	0.00	0.00
			Max. Vy	26	-0.00	0.00	0.00
			Max. Vx	22	-0.00	0.00	0.00
		Horizontal	Max Tension	25	0.41	0.00	0.00
			Max. Compression	25	-0.41	0.00	0.00
			Max. Mx	14	0.19	0.00	0.00
			Max. My	16	0.39	0.00	-0.00
			Max. Vy	14	-0.00	0.00	0.00
			Max. Vx	16	0.00	0.00	0.00
		Secondary Horizontal	Max Tension	18	0.00	-0.00	-0.00
			Max. Compression	24	-0.00	-0.00	-0.00
			Max. Mx	26	-0.00	-0.00	0.00
			Max. My	26	-0.00	-0.00	0.00
			Max. Vy	26	0.00	-0.00	0.00
			Max. Vx	26	-0.00	0.00	0.00
		Top Girt	Max Tension	11	0.34	0.00	0.00
			Max. Compression	5	-0.14	0.00	0.00
			Max. Mx	14	0.01	0.00	0.00
			Max. My	16	-0.04	0.00	-0.00
			Max. Vy	14	-0.00	0.00	0.00
			Max. Vx	16	0.00	0.00	0.00
		Bottom Girt	Max Tension	19	0.56	0.00	0.00
			Max. Compression	25	-0.61	0.00	0.00
			Max. Mx	14	0.02	0.00	0.00
			Max. My	16	0.48	0.00	-0.00
			Max. Vy	14	-0.00	0.00	0.00
			Max. Vx	16	0.00	0.00	0.00
T10	120 - 100	Leg	Max Tension	1	0.00	0.00	0.00
			Max. Compression	17	-20.79	-0.02	-0.05
			Max. Mx	24	-15.17	0.30	-0.00
			Max. My	26	-15.37	0.11	0.27
			Max. Vy	24	-0.56	0.30	-0.00
			Max. Vx	15	-0.53	0.02	0.25
		Diagonal	Max Tension	20	1.59	0.00	0.00
			Max. Compression	25	-1.96	0.00	0.00
			Max. Mx	26	1.17	0.00	0.00
			Max. My	22	-0.76	0.00	0.00
			Max. Vy	26	-0.00	0.00	0.00
			Max. Vx	22	-0.00	0.00	0.00
		Horizontal	Max Tension	25	2.91	0.00	0.00
			Max. Compression	26	-0.36	0.00	0.00
			Max. Mx	23	0.35	0.00	0.00
			Max. My	16	0.34	0.00	-0.00
			Max. Vy	23	-0.00	0.00	0.00
			Max. Vx	16	0.00	0.00	0.00
		Secondary Horizontal	Max Tension	18	0.00	-0.00	-0.00
			Max. Compression	24	-0.00	-0.00	-0.00
			Max. Mx	26	-0.00	-0.00	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Force K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. My	18	0.00	-0.00	-0.00
			Max. Vy	26	0.00	-0.00	0.00
			Max. Vx	18	0.00	-0.00	-0.00
		Top Girt	Max Tension	25	0.80	0.00	0.00
			Max. Compression	19	-0.60	0.00	0.00
			Max. Mx	14	0.04	0.00	0.00
			Max. My	16	-0.50	0.00	-0.00
			Max. Vy	14	-0.00	0.00	0.00
			Max. Vx	16	0.00	0.00	0.00
		Bottom Girt	Max Tension	17	0.52	0.00	0.00
			Max. Compression	23	-0.45	0.00	0.00
			Max. Mx	23	0.25	0.00	0.00
			Max. My	16	-0.27	0.00	-0.00
			Max. Vy	23	-0.00	0.00	0.00
			Max. Vx	16	0.00	0.00	0.00
		Guy A	Bottom Tension	21	5.45		
			Top Tension	21	5.53		
			Top Cable Vert	21	2.45		
			Top Cable Norm	21	4.96		
			Top Cable Tan	21	0.00		
			Bot Cable Vert	21	-2.19		
			Bot Cable Norm	21	4.99		
			Bot Cable Tan	21	0.00		
		Guy B	Bottom Tension	25	5.51		
			Top Tension	25	5.58		
			Top Cable Vert	25	2.47		
			Top Cable Norm	25	5.01		
			Top Cable Tan	25	0.00		
			Bot Cable Vert	25	-2.22		
			Bot Cable Norm	25	5.04		
			Bot Cable Tan	25	0.00		
		Guy C	Bottom Tension	17	5.44		
			Top Tension	17	5.52		
			Top Cable Vert	17	2.44		
			Top Cable Norm	17	4.95		
			Top Cable Tan	17	0.00		
			Bot Cable Vert	17	-2.19		
			Bot Cable Norm	17	4.98		
			Bot Cable Tan	17	0.00		
T11	100 - 80	Leg	Max Tension	1	0.00	0.00	0.00
			Max. Compression	17	-25.32	-0.04	-0.08
			Max. Mx	24	-12.24	-0.21	-0.06
			Max. My	21	-16.52	-0.02	0.20
			Max. Vy	24	0.49	-0.03	-0.04
			Max. Vx	15	0.42	-0.03	0.04
		Diagonal	Max Tension	18	1.12	0.00	0.00
			Max. Compression	24	-1.61	0.00	0.00
			Max. Mx	26	0.02	0.00	0.00
			Max. My	16	0.25	0.00	-0.00
			Max. Vy	26	0.00	0.00	0.00
			Max. Vx	16	0.00	0.00	0.00
		Horizontal	Max Tension	17	0.44	0.00	0.00
			Max. Compression	17	-0.44	0.00	0.00
			Max. Mx	14	0.23	0.00	0.00
			Max. My	16	0.42	0.00	-0.00
			Max. Vy	14	-0.00	0.00	0.00
			Max. Vx	16	0.00	0.00	0.00
		Secondary Horizontal	Max Tension	18	0.00	-0.00	-0.00
			Max. Compression	24	-0.00	-0.00	-0.00
			Max. Mx	26	-0.00	-0.00	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Force K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. My	15	0.00	-0.00	0.00
			Max. Vy	26	0.00	-0.00	0.00
			Max. Vx	15	-0.00	0.00	0.00
		Top Girt	Max Tension	24	0.50	0.00	0.00
			Max. Compression	17	-0.36	0.00	0.00
			Max. Mx	23	-0.11	0.00	0.00
			Max. My	16	0.34	0.00	-0.00
			Max. Vy	23	-0.00	0.00	0.00
			Max. Vx	16	0.00	0.00	0.00
		Bottom Girt	Max Tension	22	0.28	0.00	0.00
			Max. Compression	4	-0.15	0.00	0.00
			Max. Mx	14	0.05	0.00	0.00
			Max. My	22	0.12	0.00	-0.00
			Max. Vy	14	-0.00	0.00	0.00
			Max. Vx	22	0.00	0.00	0.00
T12	80 - 60	Leg	Max Tension	1	0.00	0.00	0.00
			Max. Compression	17	-25.07	-0.08	-0.06
			Max. Mx	23	-14.39	-0.26	0.02
			Max. My	21	-18.04	-0.03	0.25
			Max. Vy	23	-0.63	-0.03	-0.04
			Max. Vx	15	-0.59	0.05	-0.00
		Diagonal	Max Tension	18	1.47	0.00	0.00
			Max. Compression	23	-2.00	0.00	0.00
			Max. Mx	15	1.39	0.00	0.00
			Max. My	23	0.07	0.00	0.00
			Max. Vy	15	0.00	0.00	0.00
			Max. Vx	23	-0.00	0.00	0.00
		Horizontal	Max Tension	21	0.43	0.00	0.00
			Max. Compression	21	-0.43	0.00	0.00
			Max. Mx	14	0.23	0.00	0.00
			Max. My	16	0.41	0.00	-0.00
			Max. Vy	14	-0.00	0.00	0.00
			Max. Vx	16	0.00	0.00	0.00
		Secondary Horizontal	Max Tension	19	0.00	-0.00	-0.00
			Max. Compression	23	-0.00	-0.00	-0.00
			Max. Mx	26	-0.00	-0.00	0.00
			Max. My	15	0.00	-0.00	0.00
			Max. Vy	26	0.00	-0.00	0.00
			Max. Vx	15	-0.00	0.00	0.00
		Top Girt	Max Tension	17	0.28	0.00	0.00
			Max. Compression	10	-0.22	0.00	0.00
			Max. Mx	14	0.03	0.00	0.00
			Max. My	22	0.02	0.00	-0.00
			Max. Vy	14	-0.00	0.00	0.00
			Max. Vx	22	0.00	0.00	0.00
		Bottom Girt	Max Tension	23	0.77	0.00	0.00
			Max. Compression	17	-0.60	0.00	0.00
			Max. Mx	14	0.04	0.00	0.00
			Max. My	22	-0.28	0.00	-0.00
			Max. Vy	14	-0.00	0.00	0.00
			Max. Vx	22	0.00	0.00	0.00
T13	60 - 40	Leg	Max Tension	1	0.00	0.00	0.00
			Max. Compression	17	-26.34	-0.03	-0.06
			Max. Mx	18	-15.39	-0.21	-0.05
			Max. My	15	-17.65	-0.03	0.24
			Max. Vy	23	-0.63	0.21	-0.09
			Max. Vx	15	-0.59	0.04	0.22
		Diagonal	Max Tension	23	1.78	0.00	0.00
			Max. Compression	18	-1.76	0.00	0.00
			Max. Mx	23	-1.11	0.00	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Force K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. My	23	0.31	0.00	0.00
			Max. Vy	23	0.00	0.00	0.00
			Max. Vx	23	0.00	0.00	0.00
		Horizontal	Max Tension	17	2.76	0.00	0.00
			Max. Compression	17	-0.45	0.00	0.00
			Max. Mx	14	0.25	0.00	0.00
			Max. My	16	0.44	0.00	-0.00
			Max. Vy	14	-0.00	0.00	0.00
			Max. Vx	16	0.00	0.00	0.00
		Secondary Horizontal	Max Tension	19	0.00	-0.00	-0.00
			Max. Compression	23	-0.00	-0.00	-0.00
			Max. Mx	26	-0.00	-0.00	0.00
			Max. My	15	0.00	-0.00	0.00
			Max. Vy	26	0.00	-0.00	0.00
			Max. Vx	15	-0.00	0.00	0.00
		Top Girt	Max Tension	17	0.72	0.00	0.00
			Max. Compression	23	-0.70	0.00	0.00
			Max. Mx	14	0.04	0.00	0.00
			Max. My	22	0.40	0.00	-0.00
			Max. Vy	14	-0.00	0.00	0.00
			Max. Vx	22	0.00	0.00	0.00
		Bottom Girt	Max Tension	22	0.44	0.00	0.00
			Max. Compression	16	-0.26	0.00	0.00
			Max. Mx	14	0.06	0.00	0.00
			Max. My	23	0.31	0.00	-0.00
			Max. Vy	14	-0.00	0.00	0.00
			Max. Vx	23	0.00	0.00	0.00
		Guy A	Bottom Tension	21	4.51		
			Top Tension	21	4.55		
			Top Cable Vert	21	1.15		
			Top Cable Norm	21	4.40		
			Top Cable Tan	21	0.00		
			Bot Cable Vert	21	-0.96		
			Bot Cable Norm	21	4.40		
			Bot Cable Tan	21	0.00		
		Guy B	Bottom Tension	25	4.50		
			Top Tension	25	4.54		
			Top Cable Vert	25	1.15		
			Top Cable Norm	25	4.39		
			Top Cable Tan	25	0.00		
			Bot Cable Vert	25	-0.96		
			Bot Cable Norm	25	4.39		
			Bot Cable Tan	25	0.00		
		Guy C	Bottom Tension	17	4.51		
			Top Tension	17	4.55		
			Top Cable Vert	17	1.16		
			Top Cable Norm	17	4.40		
			Top Cable Tan	17	0.00		
			Bot Cable Vert	17	-0.97		
			Bot Cable Norm	17	4.41		
			Bot Cable Tan	17	0.00		
T14	40 - 20	Leg	Max Tension	1	0.00	0.00	0.00
			Max. Compression	17	-28.68	-0.04	-0.09
			Max. Mx	17	-15.11	0.16	-0.06
			Max. My	20	-12.31	0.02	0.15
			Max. Vy	23	0.29	0.05	0.01
			Max. Vx	26	0.29	-0.04	0.05
		Diagonal	Max Tension	22	0.91	0.00	0.00
			Max. Compression	16	-1.10	0.00	0.00
			Max. Mx	23	-0.06	0.00	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Force K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. My	23	0.11	0.00	0.00
			Max. Vy	23	0.00	0.00	0.00
			Max. Vx	23	0.00	0.00	0.00
		Horizontal	Max Tension	17	0.50	0.00	0.00
			Max. Compression	17	-0.50	0.00	0.00
			Max. Mx	14	0.26	0.00	0.00
			Max. My	16	0.48	0.00	-0.00
			Max. Vy	14	-0.00	0.00	0.00
			Max. Vx	16	0.00	0.00	0.00
		Secondary Horizontal	Max Tension	19	0.00	-0.00	-0.00
			Max. Compression	23	-0.00	-0.00	-0.00
			Max. Mx	26	-0.00	-0.00	0.00
			Max. My	15	0.00	-0.00	0.00
			Max. Vy	26	0.00	-0.00	0.00
			Max. Vx	15	-0.00	0.00	0.00
		Top Girt	Max Tension	16	0.35	0.00	0.00
			Max. Compression	22	-0.29	0.00	0.00
			Max. Mx	14	0.03	0.00	0.00
			Max. My	23	-0.19	0.00	-0.00
			Max. Vy	14	-0.00	0.00	0.00
			Max. Vx	23	0.00	0.00	0.00
		Bottom Girt	Max Tension	23	0.37	0.00	0.00
			Max. Compression	17	-0.26	0.00	0.00
			Max. Mx	14	0.03	0.00	0.00
			Max. My	23	0.06	0.00	-0.00
			Max. Vy	14	-0.00	0.00	0.00
			Max. Vx	23	0.00	0.00	0.00
T15	20 - 6.70833	Leg	Max Tension	1	0.00	0.00	0.00
			Max. Compression	17	-28.07	-0.07	-0.02
			Max. Mx	20	-25.57	0.10	0.00
			Max. My	17	-25.79	-0.04	-0.09
			Max. Vy	23	-0.23	0.08	0.01
			Max. Vx	22	0.21	0.05	-0.07
		Diagonal	Max Tension	23	0.97	0.00	0.00
			Max. Compression	23	-1.34	0.00	0.00
			Max. Mx	23	0.22	0.00	0.00
			Max. My	23	0.15	0.00	0.00
			Max. Vy	23	-0.00	0.00	0.00
			Max. Vx	23	0.00	0.00	0.00
		Horizontal	Max Tension	17	0.49	0.00	0.00
			Max. Compression	17	-0.49	0.00	0.00
			Max. Mx	14	0.26	0.00	0.00
			Max. My	23	0.42	0.00	-0.00
			Max. Vy	14	-0.00	0.00	0.00
			Max. Vx	23	0.00	0.00	0.00
		Secondary Horizontal	Max Tension	19	0.00	-0.00	-0.00
			Max. Compression	23	-0.00	-0.00	-0.00
			Max. Mx	26	-0.00	-0.00	0.00
			Max. My	15	0.00	-0.00	0.00
			Max. Vy	26	0.00	-0.00	0.00
			Max. Vx	15	-0.00	0.00	0.00
		Top Girt	Max Tension	22	0.34	0.00	0.00
			Max. Compression	19	-0.28	0.00	0.00
			Max. Mx	14	0.03	0.00	0.00
			Max. My	23	0.32	0.00	0.00
			Max. Vy	14	-0.00	0.00	0.00
			Max. Vx	23	0.00	0.00	0.00
T16	6.70833 - 5	Leg	Max Tension	1	0.00	0.00	0.00
			Max. Compression	25	-22.69	0.56	0.30

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Force K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Mx	25	-22.69	0.56	0.30
			Max. My	21	-22.62	-0.02	-0.63
			Max. Vy	25	-1.94	0.56	0.30
			Max. Vx	21	2.16	-0.02	-0.63
		Diagonal	Max Tension	23	0.86	0.00	0.00
			Max. Compression	23	-0.86	0.00	0.00
			Max. Mx	23	0.86	0.00	0.00
			Max. My	23	0.23	0.00	0.00
			Max. Vy	23	-0.00	0.00	0.00
			Max. Vx	23	-0.00	0.00	0.00
		Top Girt	Max Tension	23	0.41	0.00	0.00
			Max. Compression	19	-0.36	0.00	0.00
			Max. Mx	14	0.01	0.00	0.00
			Max. My	23	0.41	0.00	0.00
			Max. Vy	14	-0.00	0.00	0.00
			Max. Vx	23	0.00	0.00	0.00
		Bottom Girt	Max Tension	23	1.54	0.00	0.00
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	17	1.50	0.00	-0.00
			Max. My	4	0.18	0.00	-0.00
			Max. Vy	17	0.00	0.00	0.00
			Max. Vx	4	0.00	0.00	0.00
T17	5 - 0	Leg	Max Tension	1	0.00	0.00	0.00
			Max. Compression	25	-23.27	-0.03	-0.12
			Max. Mx	17	-22.58	0.64	0.02
			Max. My	10	-11.17	-0.01	-0.21
			Max. Vy	17	3.04	0.64	0.02
			Max. Vx	10	0.34	0.01	0.16
		Horizontal	Max Tension	25	0.41	0.14	0.02
			Max. Compression	25	-0.41	-0.20	-0.01
			Max. Mx	10	-0.25	-0.34	-0.02
			Max. My	23	0.38	0.21	0.08
			Max. Vy	10	1.12	-0.33	-0.05
			Max. Vx	23	0.24	-0.25	-0.06
		Top Girt	Max Tension	15	1.93	-0.33	-0.01
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	22	1.86	-0.55	-0.02
			Max. My	22	1.86	-0.55	-0.02
			Max. Vy	10	0.27	-0.42	-0.01
			Max. Vx	22	0.02	-0.55	-0.02

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Mast	Max. Vert	25	59.68	0.15	0.12
	Max. H_x	11	37.70	0.29	0.04
	Max. H_z	2	38.26	0.00	0.27
	Max. M_x	1	0.00	-0.00	0.00
	Max. M_z	1	0.00	-0.00	0.00
	Max. Torsion	10	0.66	0.24	-0.14
	Min. Vert	1	29.44	-0.00	0.00
	Min. H_x	4	36.80	-0.29	0.18
	Min. H_z	8	36.86	-0.00	-0.33
	Min. M_x	1	0.00	-0.00	0.00
	Min. M_z	1	0.00	-0.00	0.00

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
	Min. Torsion	4	-0.61	-0.29	0.18
Guy C @ 240 ft Elev 0 ft Azimuth 240 deg	Max. Vert	10	-0.56	-0.60	0.35
	Max. H_x	10	-0.56	-0.60	0.35
	Max. H_z	17	-20.04	-24.67	14.24
	Min. Vert	17	-20.04	-24.67	14.24
	Min. H_x	17	-20.04	-24.67	14.24
	Min. H_z	10	-0.56	-0.60	0.35
Guy B @ 240 ft Elev 0 ft Azimuth 120 deg	Max. Vert	6	-0.57	0.61	0.35
	Max. H_x	25	-20.21	24.88	14.37
	Max. H_z	25	-20.21	24.88	14.37
	Min. Vert	25	-20.21	24.88	14.37
	Min. H_x	6	-0.57	0.61	0.35
	Min. H_z	6	-0.57	0.61	0.35
Guy A @ 240 ft Elev 0 ft Azimuth 0 deg	Max. Vert	2	-0.56	-0.00	-0.70
	Max. H_x	24	-10.73	1.47	-15.09
	Max. H_z	2	-0.56	-0.00	-0.70
	Min. Vert	21	-20.12	-0.00	-28.60
	Min. H_x	18	-10.97	-1.47	-15.39
	Min. H_z	21	-20.12	-0.00	-28.60

Tower Mast Reaction Summary

Load Combination	Vertical K	$Shear_x$ K	$Shear_z$ K	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
Dead Only	29.44	0.00	-0.00	0.00	0.00	-0.01
Dead+Wind 0 deg - No Ice+Guy	38.26	-0.00	-0.27	0.00	0.00	-0.01
Dead+Wind 30 deg - No Ice+Guy	37.82	0.19	-0.23	0.00	0.00	0.40
Dead+Wind 60 deg - No Ice+Guy	36.80	0.29	-0.18	0.00	0.00	0.61
Dead+Wind 90 deg - No Ice+Guy	37.89	0.28	-0.05	0.00	0.00	0.51
Dead+Wind 120 deg - No Ice+Guy	38.19	0.23	0.13	0.00	0.00	0.48
Dead+Wind 150 deg - No Ice+Guy	37.84	0.11	0.27	0.00	0.00	0.38
Dead+Wind 180 deg - No Ice+Guy	36.86	0.00	0.33	0.00	0.00	-0.11
Dead+Wind 210 deg - No Ice+Guy	37.64	-0.11	0.27	0.00	0.00	-0.52
Dead+Wind 240 deg - No Ice+Guy	37.98	-0.24	0.14	0.00	0.00	-0.66
Dead+Wind 270 deg - No Ice+Guy	37.70	-0.29	-0.04	0.00	0.00	-0.54
Dead+Wind 300 deg - No Ice+Guy	36.95	-0.27	-0.18	0.00	0.00	-0.59
Dead+Wind 330 deg - No Ice+Guy	37.94	-0.17	-0.23	0.00	0.00	-0.44
Dead+Ice+Temp+Guy	46.05	-0.00	-0.02	0.00	0.00	-0.02

Load Combination	Vertical K	$Shear_x$ K	$Shear_z$ K	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
Dead+Wind 0 deg+Ice+Temp+Guy	58.41	-0.01	-0.12	0.00	0.00	0.07
Dead+Wind 30 deg+Ice+Temp+Guy	59.11	0.11	-0.14	0.00	0.00	0.41
Dead+Wind 60 deg+Ice+Temp+Guy	59.56	0.15	-0.11	0.00	0.00	0.42
Dead+Wind 90 deg+Ice+Temp+Guy	59.19	0.15	-0.06	0.00	0.00	0.25
Dead+Wind 120 deg+Ice+Temp+Guy	58.39	0.09	0.04	0.00	0.00	0.27
Dead+Wind 150 deg+Ice+Temp+Guy	59.16	0.05	0.15	0.00	0.00	0.22
Dead+Wind 180 deg+Ice+Temp+Guy	59.62	0.01	0.16	0.00	0.00	-0.20
Dead+Wind 210 deg+Ice+Temp+Guy	59.03	-0.05	0.15	0.00	0.00	-0.53
Dead+Wind 240 deg+Ice+Temp+Guy	58.23	-0.10	0.04	0.00	0.00	-0.52
Dead+Wind 270 deg+Ice+Temp+Guy	59.07	-0.17	-0.05	0.00	0.00	-0.32
Dead+Wind 300 deg+Ice+Temp+Guy	59.68	-0.15	-0.12	0.00	0.00	-0.37
Dead+Wind 330 deg+Ice+Temp+Guy	59.20	-0.11	-0.15	0.00	0.00	-0.31
Dead+Wind 0 deg - Service+Guy	30.50	0.00	-0.21	0.00	0.00	-0.02
Dead+Wind 30 deg - Service+Guy	30.87	0.10	-0.18	0.00	0.00	0.20
Dead+Wind 60 deg - Service+Guy	31.22	0.17	-0.10	0.00	0.00	0.32
Dead+Wind 90 deg - Service+Guy	30.88	0.20	-0.01	0.00	0.00	0.27
Dead+Wind 120 deg - Service+Guy	30.50	0.18	0.10	0.00	0.00	0.26
Dead+Wind 150 deg - Service+Guy	30.89	0.10	0.17	0.00	0.00	0.22
Dead+Wind 180 deg - Service+Guy	31.24	0.00	0.19	0.00	0.00	-0.05
Dead+Wind 210 deg - Service+Guy	30.86	-0.10	0.17	0.00	0.00	-0.28
Dead+Wind 240 deg - Service+Guy	30.47	-0.17	0.10	0.00	0.00	-0.36
Dead+Wind 270 deg - Service+Guy	30.88	-0.20	-0.00	0.00	0.00	-0.27
Dead+Wind 300 deg - Service+Guy	31.26	-0.16	-0.11	0.00	0.00	-0.32
Dead+Wind 330 deg - Service+Guy	30.90	-0.10	-0.18	0.00	0.00	-0.25

Solution Summary

Load Comb.	Sum of Applied Forces PX K	PY K	PZ K	Sum of Reactions PX K	PY K	PZ K	% Error
1	0.00	-14.65	0.00	-0.00	14.65	0.00	0.008%
2	-0.23	-14.79	-15.92	0.23	14.79	15.89	0.154%
3	7.54	-14.65	-13.64	-7.54	14.65	13.61	0.143%
4	13.53	-14.52	-7.66	-13.53	14.52	7.68	0.088%

Load Comb.	Sum of Applied Forces PX K	PY K	PZ K	Sum of Reactions PX K	PY K	PZ K	% Error
5	15.65	-14.65	0.24	-15.62	14.65	-0.22	0.146%
6	13.70	-14.79	7.97	-13.67	14.79	-7.95	0.153%
7	7.86	-14.65	13.62	-7.83	14.65	-13.60	0.146%
8	0.06	-14.52	15.68	-0.05	14.52	-15.69	0.048%
9	-7.76	-14.65	13.59	7.73	14.65	-13.57	0.144%
10	-13.69	-14.79	7.80	13.66	14.79	-7.79	0.154%
11	-15.79	-14.65	-0.27	15.77	14.65	0.29	0.141%
12	-13.78	-14.52	-7.93	13.80	14.52	7.93	0.070%
13	-8.02	-14.65	-13.70	8.03	14.65	13.66	0.144%
14	0.00	-26.53	0.00	-0.00	26.53	0.00	0.012%
15	-0.17	-26.90	-22.67	0.17	26.90	22.63	0.115%
16	10.76	-26.53	-19.07	-10.77	26.53	19.04	0.114%
17	18.86	-26.16	-10.78	-18.88	26.16	10.80	0.085%
18	21.95	-26.53	0.18	-21.92	26.53	-0.15	0.112%
19	19.57	-26.90	11.34	-19.53	26.90	-11.32	0.115%
20	11.00	-26.53	19.06	-10.96	26.53	-19.05	0.112%
21	0.04	-26.16	21.83	-0.04	26.16	-21.85	0.069%
22	-10.93	-26.53	19.04	10.89	26.53	-19.02	0.116%
23	-19.57	-26.90	11.22	19.53	26.90	-11.20	0.116%
24	-22.06	-26.53	-0.20	22.04	26.53	0.23	0.115%
25	-19.06	-26.16	-10.97	19.08	26.16	11.00	0.108%
26	-11.12	-26.53	-19.12	11.13	26.53	19.08	0.113%
27	-0.12	-14.72	-8.12	0.12	14.72	8.12	0.053%
28	3.85	-14.65	-6.96	-3.85	14.65	6.95	0.066%
29	6.90	-14.58	-3.91	-6.90	14.58	3.92	0.048%
30	7.98	-14.65	0.12	-7.98	14.65	-0.11	0.064%
31	6.99	-14.72	4.07	-6.98	14.72	-4.06	0.053%
32	4.01	-14.65	6.95	-4.00	14.65	-6.94	0.064%
33	0.03	-14.58	8.00	-0.03	14.58	-7.99	0.037%
34	-3.96	-14.65	6.93	3.95	14.65	-6.93	0.067%
35	-6.99	-14.72	3.98	6.98	14.72	-3.98	0.053%
36	-8.06	-14.65	-0.14	8.05	14.65	0.15	0.065%
37	-7.03	-14.58	-4.04	7.04	14.58	4.05	0.036%
38	-4.09	-14.65	-6.99	4.10	14.65	6.98	0.063%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	14	0.00000001	0.00004925
2	Yes	148	0.00014669	0.00005913
3	Yes	137	0.00014549	0.00005079
4	Yes	60	0.00014501	0.00009870
5	Yes	136	0.00014758	0.00005705
6	Yes	146	0.00014535	0.00006440
7	Yes	136	0.00014885	0.00005763
8	Yes	57	0.00013089	0.00014701
9	Yes	136	0.00014873	0.00004974
10	Yes	146	0.00014856	0.00005665
11	Yes	139	0.00014674	0.00004676
12	Yes	51	0.00014431	0.00010789
13	Yes	140	0.00014689	0.00005063
14	Yes	13	0.00015000	0.00010969
15	Yes	169	0.00014830	0.00006252
16	Yes	153	0.00014688	0.00005446
17	Yes	59	0.00014648	0.00011203

18	Yes	154	0.00014637	0.00006080
19	Yes	168	0.00014907	0.00007563
20	Yes	154	0.00014625	0.00006026
21	Yes	60	0.00013465	0.00014487
22	Yes	152	0.00014881	0.00005347
23	Yes	168	0.00014998	0.00006095
24	Yes	155	0.00014883	0.00004713
25	Yes	55	0.00014569	0.00010825
26	Yes	156	0.00014643	0.00004920
27	Yes	83	0.00014324	0.00003310
28	Yes	69	0.00014691	0.00003271
29	Yes	33	0.00014917	0.00006440
30	Yes	69	0.00014424	0.00003786
31	Yes	79	0.00014561	0.00004081
32	Yes	67	0.00014352	0.00003738
33	Yes	36	0.00013886	0.00007241
34	Yes	66	0.00014642	0.00003210
35	Yes	78	0.00014611	0.00003290
36	Yes	71	0.00014335	0.00002740
37	Yes	27	0.00014986	0.00007351
38	Yes	74	0.00014223	0.00002905

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	300 - 280	4.49	29	0.19	1.26
T2	280 - 260	4.77	29	0.20	1.14
T3	260 - 240	5.07	33	0.10	0.92
T4	240 - 220	4.69	33	0.15	0.77
T5	220 - 200	4.23	37	0.07	0.70
T6	200 - 180	4.11	37	0.05	0.65
T7	180 - 160	3.97	37	0.05	0.60
T8	160 - 140	3.90	37	0.04	0.77
T9	140 - 120	3.77	27	0.08	0.82
T10	120 - 100	3.43	27	0.11	0.85
T11	100 - 80	3.11	35	0.08	0.86
T12	80 - 60	2.75	35	0.12	0.81
T13	60 - 40	2.18	35	0.14	0.70
T14	40 - 20	1.62	35	0.15	0.59
T15	20 - 6.70833	0.91	35	0.20	0.45
T16	6.70833 - 5	0.32	35	0.22	0.35
T17	5 - 0	0.24	35	0.22	0.34

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
300.00	4' Lightning Rod	29	4.49	0.19	1.26	56998
295.00	FML-2E-Radomes	29	4.54	0.20	1.24	56998
290.00	FML-2E-Radomes	29	4.61	0.21	1.21	28499
285.00	FML-2E-Radomes	29	4.68	0.21	1.18	18999
279.63	Guy	29	4.77	0.20	1.13	19444
260.00	BXA-70063/6CF_	33	5.07	0.10	0.92	4190

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
244.00	BXA-70063/6CF Antenna Assumed	33	4.80	0.13	0.79	17019
230.00	Guy	33	4.42	0.13	0.72	16248
183.00	5' Paraflector	37	3.99	0.05	0.57	27008
173.00	6' HP Dish	37	3.94	0.04	0.68	26827
170.00	Guy	37	3.93	0.03	0.71	32004
158.00	24" x 24" Panel Antenna(s)	37	3.89	0.04	0.78	53726
157.00	3' Typ. Omni/Whip Antenna(s)	37	3.89	0.04	0.79	43515
156.00	3' Typ. Omni/Whip Antenna(s)	37	3.88	0.04	0.79	36248
153.00	2'x2' Ice Shield / Rest Platform	37	3.87	0.04	0.80	23401
150.00	L-Side Light / Obstruction Light	37	3.85	0.04	0.81	16866
138.00	2' Std. Dish w/o Radome	27	3.75	0.09	0.83	10192
111.93	Guy	27	3.28	0.10	0.86	36535
94.00	3' Std. Dish w/o Radome	35	3.02	0.09	0.85	31049
93.00	12" x 12" Panel Antenna(s)	35	3.00	0.09	0.85	28516
70.00	14" x 14" Panel Antenna(s)	35	2.48	0.13	0.76	49319
57.70	Guy	35	2.12	0.14	0.69	36728
17.00	Typ. Yagi Antenna(s)	35	0.79	0.20	0.42	21870

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	300 - 280	15.85	17	0.29	2.28
T2	280 - 260	15.69	17	0.33	2.04
T3	260 - 240	15.65	21	0.18	1.68
T4	240 - 220	14.79	20	0.38	1.42
T5	220 - 200	14.03	18	0.18	1.12
T6	200 - 180	14.29	19	0.14	1.01
T7	180 - 160	14.57	19	0.14	1.14
T8	160 - 140	15.34	15	0.26	1.44
T9	140 - 120	15.94	15	0.24	1.53
T10	120 - 100	15.27	15	0.35	1.57
T11	100 - 80	14.25	23	0.32	1.59
T12	80 - 60	12.84	23	0.48	1.49
T13	60 - 40	10.43	23	0.62	1.29
T14	40 - 20	7.73	23	0.72	1.08
T15	20 - 6.70833	4.27	23	0.93	0.83
T16	6.70833 - 5	1.48	23	1.03	0.64
T17	5 - 0	1.11	23	1.04	0.62

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
300.00	4' Lightning Rod	17	15.85	0.29	2.28	27861
295.00	FML-2E-Radomes	17	15.78	0.32	2.23	27861
290.00	FML-2E-Radomes	17	15.73	0.34	2.17	13931
285.00	FML-2E-Radomes	17	15.70	0.35	2.11	9287
279.63	Guy	17	15.69	0.33	2.03	9328
260.00	BXA-70063/6CF_	21	15.65	0.18	1.68	2185

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
244.00	BXA-70063/6CF Antenna Assumed	20	15.01	0.37	1.47	9937
230.00	Guy	20	14.32	0.29	1.28	5214
183.00	5' Paraflector	19	14.52	0.14	1.07	6400
173.00	6' HP Dish	15	14.80	0.17	1.27	6939
170.00	Guy	15	14.91	0.20	1.32	8291
158.00	24" x 24" Panel Antenna(s)	15	15.43	0.25	1.46	15317
157.00	3' Typ. Omni/Whip Antenna(s)	15	15.48	0.24	1.47	12528
156.00	3' Typ. Omni/Whip Antenna(s)	15	15.52	0.23	1.47	10515
153.00	2'x2' Ice Shield / Rest Platform	15	15.65	0.20	1.49	7035
150.00	L-Side Light / Obstruction Light	15	15.76	0.16	1.51	5135
138.00	2' Std. Dish w/o Radome	15	15.93	0.26	1.54	2871
111.93	Guy	15	14.86	0.34	1.59	19013
94.00	3' Std. Dish w/o Radome	23	13.92	0.34	1.58	6144
93.00	12" x 12" Panel Antenna(s)	23	13.86	0.34	1.57	5814
70.00	14" x 14" Panel Antenna(s)	23	11.71	0.57	1.39	7572
57.70	Guy	23	10.13	0.63	1.26	15028
17.00	Typ. Yagi Antenna(s)	23	3.67	0.96	0.78	5700

Guy Design Data

Section No.	Elevation ft	Size	Initial Tension K	Breaking Load K	Actual T K	Allowable T_a K	Required S.F.	Actual S.F.
T2	279.63 (A) (1149)	7/16 EHS	2.08	20.80	8.46	10.40	2.000	2.459 ✔
	279.63 (B) (1148)	7/16 EHS	2.08	20.80	8.48	10.40	2.000	2.451 ✔
	279.63 (C) (1147)	7/16 EHS	2.08	20.80	8.50	10.40	2.000	2.447 ✔
T4	230.00 (A) (1152)	1/2 EHS	2.69	26.90	11.07	13.45	2.000	2.431 ✔
	230.00 (B) (1151)	1/2 EHS	2.69	26.90	11.05	13.45	2.000	2.434 ✔
	230.00 (C) (1150)	1/2 EHS	2.69	26.90	10.98	13.45	2.000	2.449 ✔
T7	170.00 (A) (1155)	3/8 EHS	1.54	15.40	6.85	7.70	2.000	2.247 ✔
	170.00 (B) (1154)	3/8 EHS	1.54	15.40	6.96	7.70	2.000	2.211 ✔
	170.00 (C) (1153)	3/8 EHS	1.54	15.40	6.77	7.70	2.000	2.276 ✔
T10	111.93 (A) (1158)	5/16 EHS	1.12	11.20	5.53	5.60	2.000	2.026 ✔
	111.93 (B) (1157)	5/16 EHS	1.12	11.20	5.58	5.60	2.000	2.006 ✔
	111.93 (C) (1156)	5/16 EHS	1.12	11.20	5.52	5.60	2.000	2.029 ✔
T13	57.70 (A) (1161)	5/16 EHS	1.12	11.20	4.55	5.60	2.000	2.463 ✔
	57.70 (B) (1160)	5/16 EHS	1.12	11.20	4.54	5.60	2.000	2.469 ✔
	57.70 (C) (1159)	5/16 EHS	1.12	11.20	4.55	5.60	2.000	2.461 ✔

Compression Checks

Leg Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	Mast Stability Index	F_a ksi	A in^2	Actual P K	Allow. P_a K	Ratio $\frac{P}{P_a}$
T1	300 - 280	1 1/4	20.00	1.93	73.9 K=1.00	1.00	20.20	1.23	-5.53	24.79	0.223 ✓
T2	280 - 260	1 1/4	20.00	1.93	73.9 K=1.00	1.00	20.20	1.23	-19.06	24.79	0.769 ✓
T3	260 - 240	1 1/4	20.00	1.93	73.9 K=1.00	1.00	20.20	1.23	-19.75	24.79	0.797 ✓
T4	240 - 220	1 1/2	20.00	1.93	61.6 K=1.00	0.96	21.60	1.77	-24.09	38.18	0.631 ✓
T5	220 - 200	1 1/2	20.00	1.93	61.6 K=1.00	0.95	21.27	1.77	-17.74	37.59	0.472 ✓
T6	200 - 180	1 1/4	20.00	1.93	73.9 K=1.00	0.99	20.05	1.23	-15.61	24.60	0.634 ✓
T7	180 - 160	1 1/4	20.00	1.93	73.9 K=1.00	1.00	20.20	1.23	-21.87	24.79	0.882 ✓
T8	160 - 140	1 1/4	20.00	1.93	73.9 K=1.00	1.00	20.20	1.23	-24.38	24.79	0.984 ✓
T9	140 - 120	1 1/4	20.00	1.93	73.9 K=1.00	1.00	20.20	1.23	-24.01	24.79	0.969 ✓
T10	120 - 100	1 1/2	20.00	1.93	61.6 K=1.00	0.97	21.73	1.77	-20.79	38.40	0.541 ✓
T11	100 - 80	1 1/2	20.00	1.93	61.6 K=1.00	0.97	21.84	1.77	-25.32	38.60	0.656 ✓
T12	80 - 60	1 1/2	20.00	1.93	61.6 K=1.00	0.97	21.83	1.77	-25.07	38.57	0.650 ✓
T13	60 - 40	1 1/2	20.00	1.93	61.6 K=1.00	0.95	21.31	1.77	-26.34	37.67	0.699 ✓
T14	40 - 20	1 1/2	20.00	1.93	61.6 K=1.00	0.95	21.39	1.77	-28.68	37.79	0.759 ✓
T15	20 - 6.70833	1 1/2	13.29	1.85	59.0 K=1.00	0.94	21.53	1.77	-28.07	38.04	0.738 ✓
T16	6.70833 - 5	1 1/2	1.71	1.33	42.7 K=1.00	0.86	21.87	1.77	-22.69	38.65	0.587 ✓
T17	5 - 0	1 1/2	5.13	1.48	47.2 K=1.00	0.88	21.69	1.77	-23.27	38.34	0.607 ✓

Diagonal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	F_a ksi	A in^2	Actual P K	Allow. P_a K	Ratio $\frac{P}{P_a}$
T1	300 - 280	5/8	2.78	2.63	141.5 K=0.70	7.46	0.31	-1.45	2.29	0.634

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	F_a ksi	A in^2	Actual P K	Allow. P_a K	Ratio $\frac{P}{P_a}$
T2	280 - 260	5/8	2.78	2.63	141.5 K=0.70	7.46	0.31	-2.20	2.29	0.960 ✔
T3	260 - 240	3/4	2.78	2.63	117.9 K=0.70	10.58	0.44	-4.15	4.68	0.888 ✔
T4	240 - 220	3/4	2.78	2.60	116.6 K=0.70	10.77	0.44	-4.68	4.76	0.984 ✔
T5	220 - 200	5/8	2.78	2.60	139.9 K=0.70	7.63	0.31	-2.10	2.34	0.895 ✔
T6	200 - 180	5/8	2.78	2.63	141.5 K=0.70	7.46	0.31	-1.88	2.29	0.821 ✔
T7	180 - 160	5/8	2.78	2.63	141.5 K=0.70	7.46	0.31	-2.19	2.29	0.957 ✔
T8	160 - 140	5/8	2.78	2.63	141.5 K=0.70	7.46	0.31	-2.31	2.29	1.009 ✔
T9	140 - 120	5/8	2.78	2.63	141.5 K=0.70	7.46	0.31	-1.52	2.29	0.666 ✔
T10	120 - 100	5/8	2.78	2.60	139.9 K=0.70	7.63	0.31	-1.96	2.34	0.836 ✔
T11	100 - 80	5/8	2.78	2.60	139.9 K=0.70	7.63	0.31	-1.61	2.34	0.690 ✔
T12	80 - 60	5/8	2.78	2.60	139.9 K=0.70	7.63	0.31	-2.00	2.34	0.855 ✔
T13	60 - 40	5/8	2.78	2.60	139.9 K=0.70	7.63	0.31	-1.76	2.34	0.754 ✔
T14	40 - 20	5/8	2.78	2.60	139.9 K=0.70	7.63	0.31	-1.10	2.34	0.469 ✔
T15	20 - 6.70833	5/8	2.72	2.55	137.1 K=0.70	7.94	0.31	-1.34	2.44	0.549 ✔
T16	6.70833 - 5	5/8	1.67	1.56	84.0 K=0.70	14.90	0.31	-0.86	4.57	0.187 ✔

Horizontal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	F_a ksi	A in^2	Actual P K	Allow. P_a K	Ratio $\frac{P}{P_a}$
T1	300 - 280	1/2	2.00	1.90	127.4 K=0.70	9.20	0.20	-0.16	1.81	0.087 ✔
T2	280 - 260	1/2	2.00	1.90	127.4 K=0.70	9.20	0.20	-0.32	1.81	0.175 ✔
T3	260 - 240	1/2	2.00	1.90	127.4 K=0.70	9.20	0.20	-0.64	1.81	0.355 ✔
T4	240 - 220	1/2	2.00	1.88	126.0 K=0.70	9.41	0.20	-0.53	1.85	0.285 ✔
T5	220 - 200	1/2	2.00	1.88	126.0 K=0.70	9.41	0.20	-0.30	1.85	0.163 ✔
T6	200 - 180	1/2	2.00	1.90	127.4 K=0.70	9.20	0.20	-0.27	1.81	0.149 ✔
T7	180 - 160	1/2	2.00	1.90	127.4	9.20	0.20	-0.38	1.81	0.210

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	F_a ksi	A in^2	Actual P K	Allow. P_a K	Ratio P / P_a
					K=0.70					✔
T8	160 - 140	1/2	2.00	1.90	127.4 K=0.70	9.20	0.20	-0.42	1.81	0.234 ✔
T9	140 - 120	1/2	2.00	1.90	127.4 K=0.70	9.20	0.20	-0.41	1.81	0.227 ✔
T10	120 - 100	1/2	2.00	1.88	126.0 K=0.70	9.41	0.20	-0.36	1.85	0.193 ✔
T11	100 - 80	1/2	2.00	1.88	126.0 K=0.70	9.41	0.20	-0.44	1.85	0.237 ✔
T12	80 - 60	1/2	2.00	1.88	126.0 K=0.70	9.41	0.20	-0.43	1.85	0.233 ✔
T13	60 - 40	1/2	2.00	1.88	126.0 K=0.70	9.41	0.20	-0.45	1.85	0.243 ✔
T14	40 - 20	1/2	2.00	1.88	126.0 K=0.70	9.41	0.20	-0.50	1.85	0.269 ✔
T15	20 - 6.70833	1/2	2.00	1.88	126.0 K=0.70	9.41	0.20	-0.49	1.85	0.263 ✔
T17	5 - 0	C4x5.4	1.43	1.30	41.6 K=1.00	19.06	1.59	-0.41	30.30	0.014 ✔

Secondary Horizontal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	F_a ksi	A in^2	Actual P K	Allow. P_a K	Ratio P / P_a
T1	300 - 280	1/2	1.00	0.95	83.5 K=0.92	14.96	0.20	-0.00	2.94	0.000 ✔
T2	280 - 260	1/2	1.00	0.95	83.5 K=0.92	14.96	0.20	-0.00	2.94	0.000 ✔
T3	260 - 240	1/2	1.00	0.95	83.5 K=0.92	14.96	0.20	-0.00	2.94	0.000 ✔
T4	240 - 220	1/2	1.00	0.94	83.3 K=0.92	14.99	0.20	-0.00	2.94	0.000 ✔
T5	220 - 200	1/2	1.00	0.94	83.3 K=0.92	14.99	0.20	-0.00	2.94	0.000 ✔
T6	200 - 180	1/2	1.00	0.95	83.5 K=0.92	14.96	0.20	-0.00	2.94	0.000 ✔
T7	180 - 160	1/2	1.00	0.95	83.5 K=0.92	14.96	0.20	-0.00	2.94	0.000 ✔
T8	160 - 140	1/2	1.00	0.95	83.5 K=0.92	14.96	0.20	-0.00	2.94	0.000 ✔
T9	140 - 120	1/2	1.00	0.95	83.5 K=0.92	14.96	0.20	-0.00	2.94	0.000 ✔
T10	120 - 100	1/2	1.00	0.94	83.3 K=0.92	14.99	0.20	-0.00	2.94	0.000 ✔
T11	100 - 80	1/2	1.00	0.94	83.3 K=0.92	14.99	0.20	-0.00	2.94	0.000 ✔
T12	80 - 60	1/2	1.00	0.94	83.3 K=0.92	14.99	0.20	-0.00	2.94	0.000 ✔
T13	60 - 40	1/2	1.00	0.94	83.3	14.99	0.20	-0.00	2.94	0.000

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	F_a ksi	A in^2	Actual P K	Allow. P_a K	Ratio $\frac{P}{P_a}$
					K=0.92					✓
T14	40 - 20	1/2	1.00	0.94	83.3 K=0.92	14.99	0.20	-0.00	2.94	0.000 ✓
T15	20 - 6.70833	1/2	1.00	0.94	83.3 K=0.92	14.99	0.20	-0.00	2.94	0.000 ✓

Top Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	F_a ksi	A in^2	Actual P K	Allow. P_a K	Ratio $\frac{P}{P_a}$
T1	300 - 280	1/2	2.00	1.90	127.4 K=0.70	9.20	0.20	-0.04	1.81	0.023 ✓
T3	260 - 240	1/2	2.00	1.90	127.4 K=0.70	9.20	0.20	-0.49	1.81	0.270 ✓
T4	240 - 220	1/2	2.00	1.88	126.0 K=0.70	9.41	0.20	-1.51	1.85	0.815 ✓
T5	220 - 200	1/2	2.00	1.88	126.0 K=0.70	9.41	0.20	-0.72	1.85	0.392 ✓
T6	200 - 180	1/2	2.00	1.90	127.4 K=0.70	9.20	0.20	-0.45	1.81	0.250 ✓
T7	180 - 160	1/2	2.00	1.90	127.4 K=0.70	9.20	0.20	-0.62	1.81	0.345 ✓
T8	160 - 140	1/2	2.00	1.90	127.4 K=0.70	9.20	0.20	-0.64	1.81	0.353 ✓
T9	140 - 120	1/2	2.00	1.90	127.4 K=0.70	9.20	0.20	-0.14	1.81	0.075 ✓
T10	120 - 100	1/2	2.00	1.88	126.0 K=0.70	9.41	0.20	-0.60	1.85	0.323 ✓
T11	100 - 80	1/2	2.00	1.88	126.0 K=0.70	9.41	0.20	-0.36	1.85	0.196 ✓
T12	80 - 60	1/2	2.00	1.88	126.0 K=0.70	9.41	0.20	-0.22	1.85	0.121 ✓
T13	60 - 40	1/2	2.00	1.88	126.0 K=0.70	9.41	0.20	-0.70	1.85	0.380 ✓
T14	40 - 20	1/2	2.00	1.88	126.0 K=0.70	9.41	0.20	-0.29	1.85	0.159 ✓
T15	20 - 6.70833	1/2	2.00	1.88	126.0 K=0.70	9.41	0.20	-0.28	1.85	0.154 ✓
T16	6.70833 - 5	1/2	2.00	1.88	126.0 K=0.70	9.41	0.20	-0.36	1.85	0.193 ✓

Bottom Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	F_a ksi	A in^2	Actual P K	Allow. P_a K	Ratio $\frac{P}{P_a}$

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	F_a ksi	A in^2	Actual P K	Allow. P_a K	Ratio P / P_a
T1	300 - 280	1/2	2.00	1.90	127.4 K=0.70	9.20	0.20	-0.52	1.81	0.290 ✓
T2	280 - 260	1/2	2.00	1.90	127.4 K=0.70	9.20	0.20	-0.74	1.81	0.409 ✓
T3	260 - 240	1/2	2.00	1.90	127.4 K=0.70	9.20	0.20	-1.37	1.81	0.758 ✓
T4	240 - 220	1/2	2.00	1.88	126.0 K=0.70	9.41	0.20	-0.74	1.85	0.402 ✓
T5	220 - 200	1/2	2.00	1.88	126.0 K=0.70	9.41	0.20	-0.49	1.85	0.264 ✓
T6	200 - 180	1/2	2.00	1.90	127.4 K=0.70	9.20	0.20	-0.62	1.81	0.343 ✓
T7	180 - 160	1/2	2.00	1.90	127.4 K=0.70	9.20	0.20	-0.80	1.81	0.442 ✓
T8	160 - 140	1/2	2.00	1.90	127.4 K=0.70	9.20	0.20	-0.27	1.81	0.147 ✓
T9	140 - 120	1/2	2.00	1.90	127.4 K=0.70	9.20	0.20	-0.61	1.81	0.336 ✓
T10	120 - 100	1/2	2.00	1.88	126.0 K=0.70	9.41	0.20	-0.45	1.85	0.245 ✓
T11	100 - 80	1/2	2.00	1.88	126.0 K=0.70	9.41	0.20	-0.15	1.85	0.082 ✓
T12	80 - 60	1/2	2.00	1.88	126.0 K=0.70	9.41	0.20	-0.60	1.85	0.322 ✓
T13	60 - 40	1/2	2.00	1.88	126.0 K=0.70	9.41	0.20	-0.26	1.85	0.142 ✓
T14	40 - 20	1/2	2.00	1.88	126.0 K=0.70	9.41	0.20	-0.26	1.85	0.142 ✓

Tension Checks

Leg Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	F_a ksi	A in^2	Actual P K	Allow. P_a K	Ratio P / P_a
T1	300 - 280	1 1/4	20.00	1.93	73.9	30.00	1.23	4.56	36.82	0.124 ✓
T2	280 - 260	1 1/4	20.00	1.93	73.9	30.00	1.23	13.05	36.82	0.354 ✓
T3	260 - 240	1 1/4	20.00	1.93	73.9	30.00	1.23	13.04	36.82	0.354 ✓
T4	240 - 220	1 1/2	20.00	1.93	61.6	30.00	1.77	13.07	53.01	0.246 ✓

Diagonal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	F_a ksi	A in^2	Actual P K	Allow. P_a K	Ratio $\frac{P}{P_a}$
T1	300 - 280	5/8	2.78	2.63	202.1	21.60	0.31	1.46	6.63	0.220 ✔
T2	280 - 260	5/8	2.78	2.63	202.1	21.60	0.31	2.23	6.63	0.337 ✔
T3	260 - 240	3/4	2.78	2.63	168.4	21.60	0.44	4.11	9.54	0.430 ✔
T4	240 - 220	3/4	2.78	2.60	166.6	21.60	0.44	4.55	9.54	0.477 ✔
T5	220 - 200	5/8	2.78	2.60	199.9	21.60	0.31	2.07	6.63	0.312 ✔
T6	200 - 180	5/8	2.78	2.63	202.1	21.60	0.31	1.88	6.63	0.283 ✔
T7	180 - 160	5/8	2.78	2.63	202.1	21.60	0.31	2.26	6.63	0.342 ✔
T8	160 - 140	5/8	2.78	2.63	202.1	21.60	0.31	1.86	6.63	0.281 ✔
T9	140 - 120	5/8	2.78	2.63	202.1	21.60	0.31	1.47	6.63	0.222 ✔
T10	120 - 100	5/8	2.78	2.60	199.9	21.60	0.31	1.59	6.63	0.239 ✔
T11	100 - 80	5/8	2.78	2.60	199.9	21.60	0.31	1.12	6.63	0.168 ✔
T12	80 - 60	5/8	2.78	2.60	199.9	21.60	0.31	1.47	6.63	0.222 ✔
T13	60 - 40	5/8	2.78	2.60	199.9	21.60	0.31	1.78	6.63	0.269 ✔
T14	40 - 20	5/8	2.78	2.60	199.9	21.60	0.31	0.91	6.63	0.137 ✔
T15	20 - 6.70833	5/8	2.72	2.55	195.9	21.60	0.31	0.97	6.63	0.146 ✔
T16	6.70833 - 5	5/8	1.67	1.56	120.0	21.60	0.31	0.86	6.63	0.130 ✔

Horizontal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	F_a ksi	A in^2	Actual P K	Allow. P_a K	Ratio $\frac{P}{P_a}$
T1	300 - 280	1/2	2.00	1.90	182.0	21.60	0.20	0.15	4.24	0.034 ✔
T2	280 - 260	1/2	2.00	1.90	182.0	21.60	0.20	0.32	4.24	0.074 ✔
T3	260 - 240	1/2	2.00	1.90	182.0	21.60	0.20	0.69	4.24	0.163 ✔
T4	240 - 220	1/2	2.00	1.88	180.0	21.60	0.20	4.31	4.24	1.015 ✔
T5	220 - 200	1/2	2.00	1.88	180.0	21.60	0.20	0.31	4.24	0.072

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	F_a ksi	A in^2	Actual P K	Allow. P_a K	Ratio $\frac{P}{P_a}$
T6	200 - 180	1/2	2.00	1.90	182.0	21.60	0.20	0.34	4.24	0.080 ✓
T7	180 - 160	1/2	2.00	1.90	182.0	21.60	0.20	3.27	4.24	0.770 ✓
T8	160 - 140	1/2	2.00	1.90	182.0	21.60	0.20	0.42	4.24	0.100 ✓
T9	140 - 120	1/2	2.00	1.90	182.0	21.60	0.20	0.41	4.24	0.097 ✓
T10	120 - 100	1/2	2.00	1.88	180.0	21.60	0.20	2.91	4.24	0.687 ✓
T11	100 - 80	1/2	2.00	1.88	180.0	21.60	0.20	0.44	4.24	0.103 ✓
T12	80 - 60	1/2	2.00	1.88	180.0	21.60	0.20	0.43	4.24	0.101 ✓
T13	60 - 40	1/2	2.00	1.88	180.0	21.60	0.20	2.76	4.24	0.650 ✓
T14	40 - 20	1/2	2.00	1.88	180.0	21.60	0.20	0.50	4.24	0.117 ✓
T15	20 - 6.70833	1/2	2.00	1.88	180.0	21.60	0.20	0.49	4.24	0.115 ✓
T17	5 - 0	C4x5.4	1.43	1.30	34.7	21.60	1.59	0.41	34.34	0.012 ✓

Secondary Horizontal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	F_a ksi	A in^2	Actual P K	Allow. P_a K	Ratio $\frac{P}{P_a}$
T1	300 - 280	1/2	1.00	0.95	91.0	21.60	0.20	0.00	4.24	0.000 ✓
T2	280 - 260	1/2	1.00	0.95	91.0	21.60	0.20	0.00	4.24	0.000 ✓
T3	260 - 240	1/2	1.00	0.95	91.0	21.60	0.20	0.00	4.24	0.000 ✓
T4	240 - 220	1/2	1.00	0.94	90.0	21.60	0.20	0.00	4.24	0.000 ✓
T5	220 - 200	1/2	1.00	0.94	90.0	21.60	0.20	0.00	4.24	0.000 ✓
T6	200 - 180	1/2	1.00	0.95	91.0	21.60	0.20	0.00	4.24	0.000 ✓
T7	180 - 160	1/2	1.00	0.95	91.0	21.60	0.20	0.00	4.24	0.000 ✓
T8	160 - 140	1/2	1.00	0.95	91.0	21.60	0.20	0.00	4.24	0.000 ✓
T9	140 - 120	1/2	1.00	0.95	91.0	21.60	0.20	0.00	4.24	0.000 ✓
T10	120 - 100	1/2	1.00	0.94	90.0	21.60	0.20	0.00	4.24	0.000 ✓
T11	100 - 80	1/2	1.00	0.94	90.0	21.60	0.20	0.00	4.24	0.000 ✓

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	F_a ksi	A in^2	Actual P K	Allow. P_a K	Ratio $\frac{P}{P_a}$
T12	80 - 60	1/2	1.00	0.94	90.0	21.60	0.20	0.00	4.24	0.000 ✓
T13	60 - 40	1/2	1.00	0.94	90.0	21.60	0.20	0.00	4.24	0.000 ✓
T14	40 - 20	1/2	1.00	0.94	90.0	21.60	0.20	0.00	4.24	0.000 ✓
T15	20 - 6.70833	1/2	1.00	0.94	90.0	21.60	0.20	0.00	4.24	0.000 ✓

Top Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	F_a ksi	A in^2	Actual P K	Allow. P_a K	Ratio $\frac{P}{P_a}$
T1	300 - 280	1/2	2.00	1.90	182.0	21.60	0.20	0.04	4.24	0.010 ✓
T2	280 - 260	1/2	2.00	1.90	182.0	21.60	0.20	3.03	4.24	0.715 ✓
T3	260 - 240	1/2	2.00	1.90	182.0	21.60	0.20	0.51	4.24	0.120 ✓
T4	240 - 220	1/2	2.00	1.88	180.0	21.60	0.20	1.57	4.24	0.370 ✓
T5	220 - 200	1/2	2.00	1.88	180.0	21.60	0.20	0.77	4.24	0.181 ✓
T6	200 - 180	1/2	2.00	1.90	182.0	21.60	0.20	0.45	4.24	0.106 ✓
T7	180 - 160	1/2	2.00	1.90	182.0	21.60	0.20	0.67	4.24	0.159 ✓
T8	160 - 140	1/2	2.00	1.90	182.0	21.60	0.20	0.81	4.24	0.191 ✓
T9	140 - 120	1/2	2.00	1.90	182.0	21.60	0.20	0.34	4.24	0.079 ✓
T10	120 - 100	1/2	2.00	1.88	180.0	21.60	0.20	0.80	4.24	0.189 ✓
T11	100 - 80	1/2	2.00	1.88	180.0	21.60	0.20	0.50	4.24	0.119 ✓
T12	80 - 60	1/2	2.00	1.88	180.0	21.60	0.20	0.28	4.24	0.066 ✓
T13	60 - 40	1/2	2.00	1.88	180.0	21.60	0.20	0.72	4.24	0.170 ✓
T14	40 - 20	1/2	2.00	1.88	180.0	21.60	0.20	0.35	4.24	0.082 ✓
T15	20 - 6.70833	1/2	2.00	1.88	180.0	21.60	0.20	0.34	4.24	0.080 ✓
T16	6.70833 - 5	1/2	2.00	1.88	180.0	21.60	0.20	0.41	4.24	0.096 ✓
T17	5 - 0	C4x5.4	1.85	1.73	46.1	32.50	1.19	1.93	38.76	0.050 ✓

Bottom Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	F_a ksi	A in^2	Actual P K	Allow. P_a K	Ratio $\frac{P}{P_a}$
T1	300 - 280	1/2	2.00	1.90	182.0	21.60	0.20	0.62	4.24	0.147 ✓
T2	280 - 260	1/2	2.00	1.90	182.0	21.60	0.20	0.79	4.24	0.187 ✓
T3	260 - 240	1/2	2.00	1.90	182.0	21.60	0.20	1.38	4.24	0.325 ✓
T4	240 - 220	1/2	2.00	1.88	180.0	21.60	0.20	0.82	4.24	0.193 ✓
T5	220 - 200	1/2	2.00	1.88	180.0	21.60	0.20	0.57	4.24	0.134 ✓
T6	200 - 180	1/2	2.00	1.90	182.0	21.60	0.20	0.65	4.24	0.154 ✓
T7	180 - 160	1/2	2.00	1.90	182.0	21.60	0.20	0.75	4.24	0.176 ✓
T8	160 - 140	1/2	2.00	1.90	182.0	21.60	0.20	0.16	4.24	0.038 ✓
T9	140 - 120	1/2	2.00	1.90	182.0	21.60	0.20	0.56	4.24	0.132 ✓
T10	120 - 100	1/2	2.00	1.88	180.0	21.60	0.20	0.52	4.24	0.123 ✓
T11	100 - 80	1/2	2.00	1.88	180.0	21.60	0.20	0.28	4.24	0.066 ✓
T12	80 - 60	1/2	2.00	1.88	180.0	21.60	0.20	0.77	4.24	0.182 ✓
T13	60 - 40	1/2	2.00	1.88	180.0	21.60	0.20	0.44	4.24	0.104 ✓
T14	40 - 20	1/2	2.00	1.88	180.0	21.60	0.20	0.37	4.24	0.087 ✓
T16	6.70833 - 5	1/2	2.00	1.88	180.0	21.60	0.20	1.54	4.24	0.362 ✓

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	$SF*P_{allow}$ K	% Capacity	Pass Fail
T1	300 - 280	Leg	1 1/4	3	-5.53	33.04	16.7	Pass
T2	280 - 260	Leg	1 1/4	79	-19.06	33.04	57.7	Pass
T3	260 - 240	Leg	1 1/4	155	-19.75	33.04	59.8	Pass
T4	240 - 220	Leg	1 1/2	229	-24.09	50.89	47.3	Pass
T5	220 - 200	Leg	1 1/2	307	-17.74	50.10	35.4	Pass
T6	200 - 180	Leg	1 1/4	381	-15.61	32.80	47.6	Pass
T7	180 - 160	Leg	1 1/4	457	-21.87	33.04	66.2	Pass
T8	160 - 140	Leg	1 1/4	534	-24.38	33.04	73.8	Pass
T9	140 - 120	Leg	1 1/4	610	-24.01	33.04	72.7	Pass
T10	120 - 100	Leg	1 1/2	685	-20.79	51.18	40.6	Pass
T11	100 - 80	Leg	1 1/2	761	-25.32	51.46	49.2	Pass

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	$SF*P_{allow}$ K	% Capacity	Pass Fail
T12	80 - 60	Leg	1 1/2	837	-25.07	51.42	48.8	Pass
T13	60 - 40	Leg	1 1/2	913	-26.34	50.21	52.5	Pass
T14	40 - 20	Leg	1 1/2	989	-28.68	50.38	56.9	Pass
T15	20 - 6.70833	Leg	1 1/2	1065	-28.07	50.71	55.4	Pass
T16	6.70833 - 5	Leg	1 1/2	1118	-22.69	51.52	44.0	Pass
T17	5 - 0	Leg	1 1/2	1133	-23.27	51.10	45.5	Pass
T1	300 - 280	Diagonal	5/8	12	-1.45	3.05	47.6	Pass
T2	280 - 260	Diagonal	5/8	142	-2.20	3.05	72.0	Pass
T3	260 - 240	Diagonal	3/4	164	-4.15	6.23	66.6	Pass
T4	240 - 220	Diagonal	3/4	303	-4.68	6.34	73.8	Pass
T5	220 - 200	Diagonal	5/8	377	-2.10	3.12	67.2	Pass
T6	200 - 180	Diagonal	5/8	392	-1.88	3.05	61.6	Pass
T7	180 - 160	Diagonal	5/8	487	-2.19	3.05	71.8	Pass
T8	160 - 140	Diagonal	5/8	605	-2.31	3.05	75.7	Pass
T9	140 - 120	Diagonal	5/8	619	-1.52	3.05	49.9	Pass
T10	120 - 100	Diagonal	5/8	758	-1.96	3.12	62.7	Pass
T11	100 - 80	Diagonal	5/8	833	-1.61	3.12	51.7	Pass
T12	80 - 60	Diagonal	5/8	846	-2.00	3.12	64.1	Pass
T13	60 - 40	Diagonal	5/8	985	-1.76	3.12	56.5	Pass
T14	40 - 20	Diagonal	5/8	1063	-1.10	3.12	35.2	Pass
T15	20 - 6.70833	Diagonal	5/8	1071	-1.34	3.25	41.2	Pass
T16	6.70833 - 5	Diagonal	5/8	1127	-0.86	6.10	14.1	Pass
T1	300 - 280	Horizontal	1/2	16	-0.16	2.41	6.6	Pass
T2	280 - 260	Horizontal	1/2	91	-0.32	2.41	13.1	Pass
T3	260 - 240	Horizontal	1/2	175	-0.64	2.41	26.7	Pass
T4	240 - 220	Horizontal	1/2	271	4.31	5.65	76.2	Pass
T5	220 - 200	Horizontal	1/2	319	-0.30	2.46	12.2	Pass
T6	200 - 180	Horizontal	1/2	401	-0.27	2.41	11.2	Pass
T7	180 - 160	Horizontal	1/2	499	3.27	5.65	57.8	Pass
T8	160 - 140	Horizontal	1/2	546	-0.42	2.41	17.5	Pass
T9	140 - 120	Horizontal	1/2	622	-0.41	2.41	17.0	Pass
T10	120 - 100	Horizontal	1/2	733	2.91	5.65	51.5	Pass
T11	100 - 80	Horizontal	1/2	774	-0.44	2.46	17.8	Pass
T12	80 - 60	Horizontal	1/2	858	-0.43	2.46	17.5	Pass
T13	60 - 40	Horizontal	1/2	982	2.76	5.65	48.8	Pass
T14	40 - 20	Horizontal	1/2	1009	-0.50	2.46	20.2	Pass
T15	20 - 6.70833	Horizontal	1/2	1082	-0.49	2.46	19.7	Pass
T17	5 - 0	Horizontal	C4x5.4	1138	-0.41	44.08	6.2	Pass
T1	300 - 280	Secondary Horizontal	1/2	69	-0.00	3.92	0.0	Pass
T2	280 - 260	Secondary Horizontal	1/2	145	-0.00	3.92	0.0	Pass
T3	260 - 240	Secondary Horizontal	1/2	221	-0.00	3.92	0.0	Pass
T4	240 - 220	Secondary Horizontal	1/2	255	-0.00	3.92	0.0	Pass
T5	220 - 200	Secondary Horizontal	1/2	373	0.00	5.65	0.0	Pass
T6	200 - 180	Secondary Horizontal	1/2	449	0.00	5.65	0.0	Pass
T7	180 - 160	Secondary Horizontal	1/2	483	0.00	5.65	0.0	Pass
T8	160 - 140	Secondary Horizontal	1/2	559	0.00	5.65	0.0	Pass
T9	140 - 120	Secondary Horizontal	1/2	635	-0.00	3.92	0.0	Pass
T10	120 - 100	Secondary Horizontal	1/2	711	-0.00	3.92	0.0	Pass
T11	100 - 80	Secondary Horizontal	1/2	787	-0.00	3.92	0.0	Pass
T12	80 - 60	Secondary Horizontal	1/2	863	-0.00	3.92	0.0	Pass
T13	60 - 40	Secondary Horizontal	1/2	939	-0.00	3.92	0.0	Pass
T14	40 - 20	Secondary Horizontal	1/2	1015	-0.00	3.92	0.0	Pass
T15	20 - 6.70833	Secondary Horizontal	1/2	1074	-0.00	3.92	0.0	Pass
T1	300 - 280	Top Girt	1/2	5	-0.04	2.41	1.7	Pass
T2	280 - 260	Top Girt	1/2	80	3.03	5.65	53.6	Pass
T3	260 - 240	Top Girt	1/2	157	-0.49	2.41	20.2	Pass
T4	240 - 220	Top Girt	1/2	234	-1.51	2.46	61.1	Pass
T5	220 - 200	Top Girt	1/2	308	-0.72	2.46	29.4	Pass
T6	200 - 180	Top Girt	1/2	384	-0.45	2.41	18.7	Pass
T7	180 - 160	Top Girt	1/2	462	-0.62	2.41	25.9	Pass
T8	160 - 140	Top Girt	1/2	536	-0.64	2.41	26.5	Pass

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	$SF*P_{allow}$ K	% Capacity	Pass Fail
T9	140 - 120	Top Girt	1/2	613	0.34	5.65	5.9	Pass
T10	120 - 100	Top Girt	1/2	689	-0.60	2.46	24.2	Pass
T11	100 - 80	Top Girt	1/2	764	-0.36	2.46	14.7	Pass
T12	80 - 60	Top Girt	1/2	840	-0.22	2.46	9.1	Pass
T13	60 - 40	Top Girt	1/2	916	-0.70	2.46	28.5	Pass
T14	40 - 20	Top Girt	1/2	994	-0.29	2.46	11.9	Pass
T15	20 - 6.70833	Top Girt	1/2	1068	-0.28	2.46	11.5	Pass
T16	6.70833 - 5	Top Girt	1/2	1120	-0.36	2.46	14.4	Pass
T17	5 - 0	Top Girt	C4x5.4	1135	1.93	51.66	3.7	Pass
T1	300 - 280	Bottom Girt	1/2	8	-0.52	2.41	21.7	Pass
T2	280 - 260	Bottom Girt	1/2	83	-0.74	2.41	30.7	Pass
T3	260 - 240	Bottom Girt	1/2	161	-1.37	2.41	56.9	Pass
T4	240 - 220	Bottom Girt	1/2	235	-0.74	2.46	30.2	Pass
T5	220 - 200	Bottom Girt	1/2	311	-0.49	2.46	19.8	Pass
T6	200 - 180	Bottom Girt	1/2	389	-0.62	2.41	25.7	Pass
T7	180 - 160	Bottom Girt	1/2	463	-0.80	2.41	33.1	Pass
T8	160 - 140	Bottom Girt	1/2	540	-0.27	2.41	11.0	Pass
T9	140 - 120	Bottom Girt	1/2	616	-0.61	2.41	25.2	Pass
T10	120 - 100	Bottom Girt	1/2	691	-0.45	2.46	18.4	Pass
T11	100 - 80	Bottom Girt	1/2	767	-0.15	2.46	6.2	Pass
T12	80 - 60	Bottom Girt	1/2	843	-0.60	2.46	24.2	Pass
T13	60 - 40	Bottom Girt	1/2	921	-0.26	2.46	10.7	Pass
T14	40 - 20	Bottom Girt	1/2	995	-0.26	2.46	10.7	Pass
T16	6.70833 - 5	Bottom Girt	1/2	1123	1.54	5.65	27.2	Pass
T2	280 - 260	Guy A@279.625	7/16	1149	8.46	10.40	81.4	Pass
T4	240 - 220	Guy A@230	1/2	1152	11.07	13.45	82.3	Pass
T7	180 - 160	Guy A@170	3/8	1155	6.85	7.70	89.0	Pass
T10	120 - 100	Guy A@111.925	5/16	1158	5.53	5.60	98.7	Pass
T13	60 - 40	Guy A@57.7	5/16	1161	4.55	5.60	81.2	Pass
T2	280 - 260	Guy B@279.625	7/16	1148	8.48	10.40	81.6	Pass
T4	240 - 220	Guy B@230	1/2	1151	11.05	13.45	82.2	Pass
T7	180 - 160	Guy B@170	3/8	1154	6.96	7.70	90.4	Pass
T10	120 - 100	Guy B@111.925	5/16	1157	5.58	5.60	99.7	Pass
T13	60 - 40	Guy B@57.7	5/16	1160	4.54	5.60	81.0	Pass
T2	280 - 260	Guy C@279.625	7/16	1147	8.50	10.40	81.7	Pass
T4	240 - 220	Guy C@230	1/2	1150	10.98	13.45	81.7	Pass
T7	180 - 160	Guy C@170	3/8	1153	6.77	7.70	87.9	Pass
T10	120 - 100	Guy C@111.925	5/16	1156	5.52	5.60	98.6	Pass
T13	60 - 40	Guy C@57.7	5/16	1159	4.55	5.60	81.3	Pass

	Summary	
Leg (T8)	73.8	Pass
Diagonal (T8)	75.7	Pass
Horizontal (T4)	76.2	Pass
Secondary Horizontal (T1)	0.0	Pass
Top Girt (T4)	61.1	Pass
Bottom Girt (T3)	56.9	Pass
Guy A (T10)	98.7	Pass
Guy B (T10)	99.7	Pass
Guy C (T10)	98.6	Pass
RATING =	**99.7**	**Pass**

tnxTower	Job	Page
Allstate Tower Inc. P.O. Box 25 Henderson, KY 42419 Phone: (270) 830-8513 FAX: (270) 830-8475	59671Z - Structural Analysis	50 of 50
	Project Site Name : Stanton / Powell County, KY.	Date 19:54:18 04/09/16
Program Version 7.0.5.1 - 2/4/2016 File:C:/Users/Rob/Documents/02 - PT&T_Allstate Tower Inc/01 - AST_Communication/02 - Tnx Designed Files/59xxx_ Tnx Files/59671Z - 40888 - Stanton - Powell County KY_RH.eri	Client WSKV	Designed by Allstate Tower