



# SOUTHERN BROADCAST SERVICES

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December 23, 2002

To: Cris Alexander  
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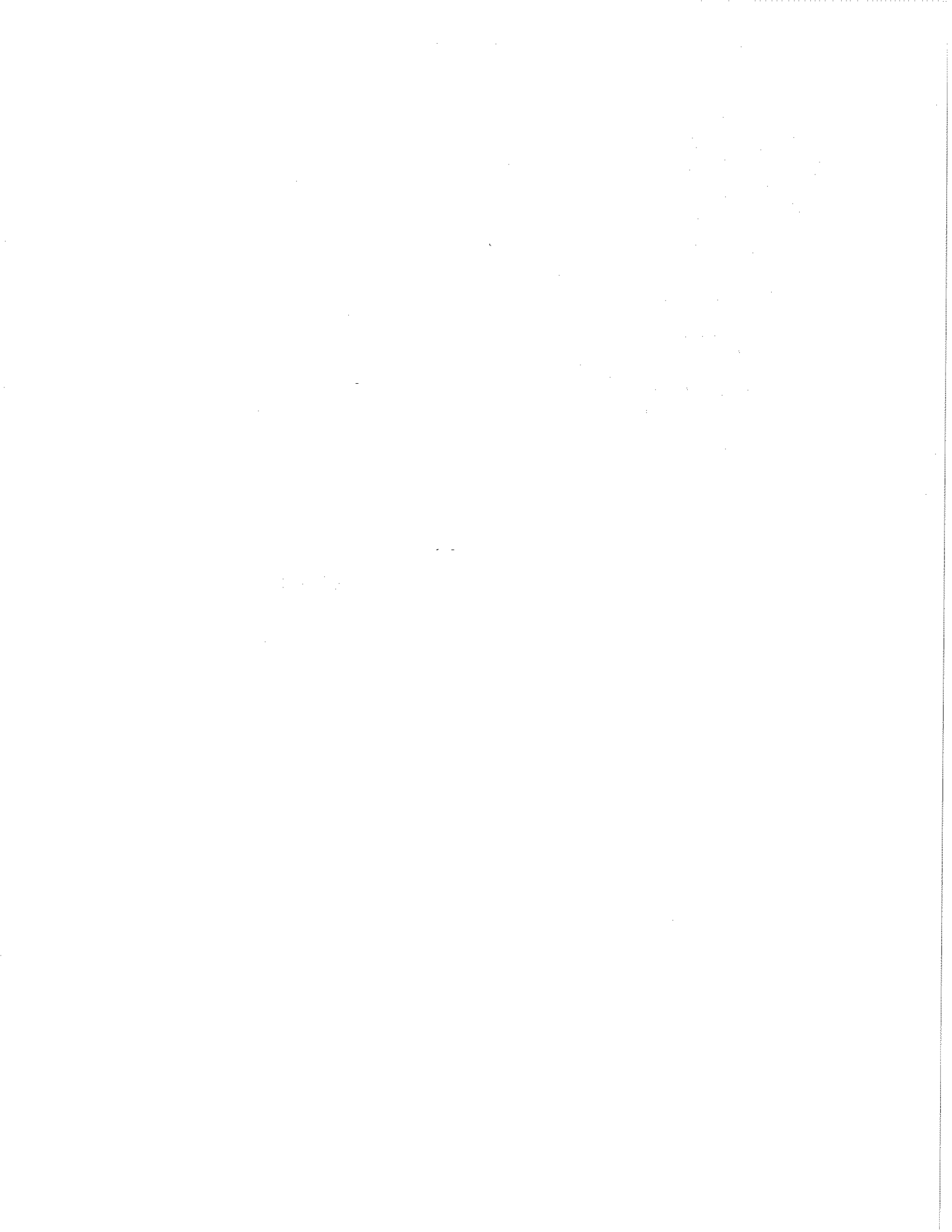
From: Jim Coleman  
P.O. Box 1648  
Pelham, AL 35124

Regarding: Cullman Modified 1325' Guyed Tower

The structural upgrade as outlined in engineering drawings by Paul J. Ford and Company dated 6-21-2002, job number A02-T060, has been completed as of December 11.

Please let me know if you need further information. I look forward to hearing from you.  
Hope your holidays are safe and happy!

A handwritten signature in black ink, appearing to read 'Jim Coleman', with a stylized flourish at the end.



## CULLMAN, AL

### EXISTING 1245 FT GUYED TOWER - OVERSTRESS COMPONENTS

ELEVATION	LEGS	ALLOW LOAD	MAX LOAD	OVER%
1130' to 1010'	3 1/4" solid rod	124.94	149.63	19.76
790' to 710'	3 3/4" solid rod	197.97	227.58	14.96
670' to 650'	4" solid rod	238.92	250.07	4.67
570' to 410'	4" solid rod	238.92	267.70	12.05
290' to 270'	4 1/4" solid rod	282.83	289.94	2.51

ELEVATION	DIAGONALS	ALLOW LOAD	MAX LOAD	OVER%
1130' to 1110'	3/4" solid rod	9.54	10.19	6.81
1030' to 990'	5/8" solid rod	6.63	9.59	44.65
990' to 970'	3/4" solid rod	9.54	10.86	13.84
770' to 710'	5/8" solid rod	6.63	9.51	43.44
710' to 690'	3/4" solid rod	9.54	10.33	8.28
670' to 650'	5/8" solid rod	6.63	7.45	12.37
590' to 570'	5/8" solid rod	6.63	7.98	20.36
310' to 290'	5/8" solid rod	6.63	7.08	6.79

ELEVATION	GIRTS	ALLOW LOAD	MAX LOAD	OVER%
990' to 970'	1.9" O.D. X 0.145" THK	7.48	7.78	4.01

## Tower Input Data

The main tower is a 3x guyed tower with an overall height of 1326.88 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 7.00 ft at the top and at the base.

An index plate is provided at the 3 sided -tower connection.

There is a 3 sided latticed pole with a face width of 2.00 ft.

This tower is designed using the TIA/EIA-222-F standard.

The following design criteria apply:

- Basic wind speed of 70 mph .

- Nominal ice thickness of 0.5000 in .

- Ice density of 56 pcf .

- A wind speed of 61 mph is used in combination with ice.

- Temperature drop of 30 F .

- Deflections calculated using a wind speed of 50 mph .

- Tension only take-up is 0.0313 in .

- Projection of appurtenances ignored. Maximum area used .

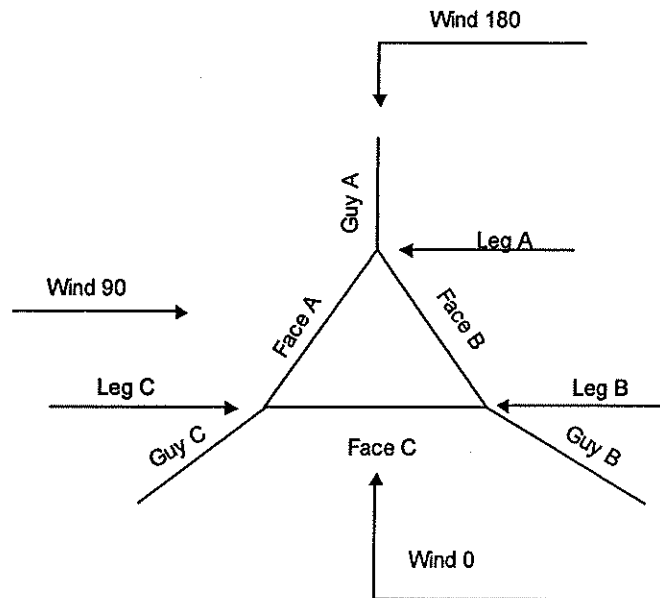
- Dishes always considered to be directed into the wind .

- Pressures are calculated at each section .

- Stress ratio used in latticed pole member design is 0.8 .

- Safety factor used in guy design is 2.5 .

- Stress ratio used in tower member design is 1 .



Corner & Starmount Guyed Tower

## 3 Sided Latticed Pole Section Geometry

<i>Tower Section</i>	<i>Tower Elevation</i>	<i>Section Width</i>	<i>Number of Sections</i>	<i>Section Length</i>	<i>Diagonal Spacing</i>	<i>Bracing Type</i>	<i>Has K Brace End Panels</i>	<i>Has Horizontals</i>
	<i>ft</i>	<i>ft</i>		<i>ft</i>	<i>ft</i>			
L1	1326.88-1306.88	2.00	1	20.00	2.49	K Brace Left	No	Yes+Steps
L2	1306.88-1286.88	2.00	1	20.00	2.48	K Brace Left	No	Yes+Steps
L3	1286.88-1266.88	2.00	1	20.00	2.48	K Brace Left	No	Yes+Steps
L4	1266.88-1246.88	2.00	1	20.00	2.49	K Brace Left	No	Yes+Steps

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

<i>Tower Elevation</i>	<i>Leg Type</i>	<i>Leg Size</i>	<i>Leg F<sub>y</sub></i>	<i>Diagonal Type</i>	<i>Diagonal Size</i>	<i>Diagonal F<sub>y</sub></i>
<i>ft</i>			<i>ksi</i>			<i>ksi</i>
L1 1326.88-1306.88	Solid Round	2" solid	50	Solid Round	3/4" solid	36
L2 1306.88-1286.88	Solid Round	2" solid	50	Solid Round	7/8" solid	36
L3 1286.88-1266.88	Solid Round	2 1/4" solid	50	Solid Round	7/8" solid	36
L4 1266.88-1246.88	Solid Round	2 3/4" solid	50	Solid Round	1" solid	36

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

<i>Tower Elevation</i>	<i>Top Girt Type</i>	<i>Top Girt Size</i>	<i>Top Girt F<sub>y</sub></i>	<i>Bottom Girt Type</i>	<i>Bottom Girt Size</i>	<i>Bottom Girt F<sub>y</sub></i>
<i>ft</i>			<i>ksi</i>			<i>ksi</i>
L1 1326.88-1306.88	Solid Round	3/4" solid	36	Solid Round	3/4" solid	36
L2 1306.88-1286.88	Solid Round	3/4" solid	36	Solid Round	3/4" solid	36
L3 1286.88-1266.88	Solid Round	3/4" solid	36	Solid Round	3/4" solid	36
L4 1266.88-1246.88	Solid Round	3/4" solid	36	Solid Round	3/4" solid	36

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

<i>Tower Elevation</i>	<i>No. of Mid Girts</i>	<i>Mid Girt Type</i>	<i>Mid Girt Size</i>	<i>Mid Girt F<sub>y</sub></i>	<i>Horizontal Type</i>	<i>Horizontal Size</i>	<i>Horizontal F<sub>y</sub></i>
<i>ft</i>				<i>ksi</i>			<i>ksi</i>
L1 1326.88-1306.88	1	Solid Round	3/4" solid	36	Solid Round	3/4" solid	36
L2 1306.88-1286.88	1	Solid Round	3/4" solid	36	Solid Round	3/4" solid	36
L3 1286.88-1266.88	1	Solid Round	3/4" solid	36	Solid Round	3/4" solid	36
L4 1266.88-1246.88	1	Solid Round	3/4" solid	36	Solid Round	3/4" solid	36

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

Tower Elevation	Secondary Horizontal Type	Secondary Horizontal Size	Secondary Horizontal $F_y$	Inner Bracing Type	Inner Bracing Size	Inner Bracing $F_y$
ft			ksi			ksi
L1 1326.88-1306.88	Solid Round	5/8" solid	36	Solid Round		36
L2 1306.88-1286.88	Solid Round	5/8" solid	36	Solid Round		36
L3 1286.88-1266.88	Solid Round	5/8" solid	36	Solid Round		36
L4 1266.88-1246.88	Solid Round	5/8" solid	36	Solid Round		36

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

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Adjust. Factor $A_f$	Adjust. Factor $A_r$	Weight Mult.	Legs	K Factors <sup>1</sup>								
							X Brace Diags	K Brace Diags	Single Diags	Girls	Horiz.	Inner Brace	Truss Leg X Brace	Truss Leg Z Brace	
							X Y	X Y	X Y	X Y	X Y	X Y	X Y	X Y	
L1 1326.88-1306.88	0.00	0.0000	1	1	1	1	1	0.85	0.85	0.85	0.85	0.85	1	0.5	0.85
L2 1306.88-1286.88	0.00	0.0000	1	1	1	1	1	0.85	0.85	0.85	0.85	0.85	1	0.5	0.85
L3 1286.88-1266.88	0.00	0.0000	1	1	1	1	1	0.85	0.85	0.85	0.85	0.85	1	0.5	0.85
L4 1266.88-1246.88	0.00	0.0000	1	1	1	1	1	0.85	0.85	0.85	0.85	0.85	1	0.5	0.85

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

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

Tower Elevation	Tension Area Factors						Connection Offsets								
	Legs		Inner Members				Diagonals				K-Bracing				
	Net Width Deduct	U	Single Angle Deduct	U	Double Angle Deduct	U	Vert. Top	Horiz. Top	Vert. Bot.	Horiz. Bot.	Vert. Top	Horiz. Top	Vert. Bot.	Horiz. Bot.	
ft	in		in		in		in	in	in	in	in	in	in	in	
L1 1326.88-1306.88	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L2 1306.88-1286.88	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L3 1286.88-1266.88	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L4 1266.88-1246.88	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

### Tower Section Geometry

Tower Section	Tower Elevation	Section Width	Number of Sections	Section Length	Diagonal Spacing	Bracing Type	Has K Brace End Panels	Has Horizontals
	ft	ft		ft	ft			
T1	1246.88-1239.5	7.00	1	7.38	7.38	K Brace Down	No	Yes
T2	1239.5-1236.67	7.00	1	2.83	2.83	K Brace Down	No	Yes
T3	1236.67-1230	7.00	1	6.67	6.67	TX Brace	No	Yes
T4-T7	1230-1150	7.00	4	20.00	6.67	TX Brace	No	Yes
T8	1150-1130	7.00	1	20.00	6.67	TX Brace	No	Yes

Tower Section	Tower Elevation	Section Width	Number of Sections	Section Length	Diagonal Spacing	Bracing Type	Has K Brace End Panels	Has Horizontals
	ft	ft		ft	ft			
T9	1130-1110	7.00	1	20.00	6.67	TX Brace	No	Yes
T10-T15	1110-990	7.00	6	20.00	6.67	TX Brace	No	Yes
T16-T17	990-950	7.00	2	20.00	6.67	TX Brace	No	Yes
T18-T22	950-850	7.00	5	20.00	6.67	TX Brace	No	Yes
T23-T24	850-810	7.00	2	20.00	6.67	TX Brace	No	Yes
T25-T29	810-710	7.00	5	20.00	6.67	TX Brace	No	Yes
T30-T31	710-670	7.00	2	20.00	6.67	TX Brace	No	Yes
T32-T36	670-570	7.00	5	20.00	6.67	TX Brace	No	Yes
T37-T38	570-530	7.00	2	20.00	6.67	TX Brace	No	Yes
T39-T43	530-430	7.00	5	20.00	6.67	TX Brace	No	Yes
T44	430-410	7.00	1	20.00	6.67	TX Brace	No	Yes
T45	410-390	7.00	1	20.00	6.67	TX Brace	No	Yes
T46-T50	390-290	7.00	5	20.00	6.67	TX Brace	No	Yes
T51	290-270	7.00	1	20.00	6.67	TX Brace	No	Yes
T52	270-250	7.00	1	20.00	6.67	TX Brace	No	Yes
T53-T57	250-150	7.00	5	20.00	6.67	TX Brace	No	Yes
T58-T59	150-110	7.00	2	20.00	6.67	TX Brace	No	Yes
T60-T63	110-30	7.00	4	20.00	6.67	TX Brace	No	Yes
T64	30-10	7.00	1	20.00	6.67	TX Brace	No	Yes
T65	10-0	7.00	1	10.00	4.06	TX Brace	No	Yes

### Tower Section Geometry (cont'd)

Tower Elevation	Leg Type	Leg Size	Leg F <sub>y</sub> ksi	Diagonal Type	Diagonal Size	Diagonal F <sub>y</sub> ksi
ft			ksi			ksi
T1 1246.88-1239.5	Solid Round	3" solid	50	Single Angle	L 3 x 3 x 1/4	36
T2 1239.5-1236.67	Solid Round	3" solid	50	Single Angle	L 3 x 3 x 1/4	36
T3 1236.67-1230	Solid Round	3" solid	50	Solid Round	5/8" solid	36
T4-T7 1230-1150	Solid Round	3" solid	50	Solid Round	5/8" solid	36
T8 1150-1130	Solid Round	3" solid	50	Solid Round	3/4" solid	36
T9 1130-1110	Solid Round	3 1/4" solid	50	Solid Round	3/4" solid	36
T10-T15 1110-990	Solid Round	3 1/4" solid	50	Solid Round	5/8" solid	36
T16-T17 990-950	Solid Round	3 1/2" solid	50	Solid Round	3/4" solid	36
T18-T22 950-850	Solid Round	3 1/2" solid	50	Solid Round	5/8" solid	36
T23-T24 850-810	Solid Round	3 3/4" solid	50	Solid Round	3/4" solid	36
T25-T29 810-710	Solid Round	3 3/4" solid	50	Solid Round	5/8" solid	36
T30-T31 710-670	Solid Round	4 1/4" solid	50	Solid Round	3/4" solid	36
T32-T36 670-570	Solid Round	4" solid	50	Solid Round	5/8" solid	36
T37-T38 570-530	Solid Round	4" solid	50	Solid Round	3/4" solid	36
T39-T43 530-430	Solid Round	4" solid	50	Solid Round	5/8" solid	36
T44 430-410	Solid Round	4" solid	50	Solid Round	3/4" solid	36
T45 410-390	Solid Round	4 1/4" solid	50	Solid Round	3/4" solid	36
T46-T50 390-290	Solid Round	4 1/4" solid	50	Solid Round	5/8" solid	36
T51 290-270	Solid Round	4 1/4" solid	50	Solid Round	3/4" solid	36
T52 270-250	Solid Round	4 1/2" solid	50	Solid Round	3/4" solid	36
T53-T57 250-150	Solid Round	4 1/2" solid	50	Solid Round	5/8" solid	36
T58-T59	Solid Round	4 1/2" solid	50	Solid Round	3/4" solid	36

Tower Elevation ft	Leg Type	Leg Size	Leg F <sub>y</sub> ksi	Diagonal Type	Diagonal Size	Diagonal F <sub>y</sub> ksi
150-110						
T60-T63 110-30	Solid Round	4 1/2" solid	50	Solid Round	5/8" solid	36
T64 30-10	Solid Round	4 1/2" solid	50	Solid Round	5/8" solid	36
T65 10-0	Solid Round	4 1/2" solid	50	Single Angle	L 4 x 4 x 3/8	36

### Tower Section Geometry (cont'd)

Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt F <sub>y</sub> ksi	Bottom Girt Type	Bottom Girt Size	Bottom Girt F <sub>y</sub> ksi
T1 1246.88-1239.5	Channel		36	Single Angle		36
T2 1239.5-1236.67	Single Angle		36	Single Angle		36
T3 1236.67-1230	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35	Single Angle		36
T4-T7 1230-1150	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35	Single Angle		36
T8 1150-1130	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35	Single Angle		36
T9 1130-1110	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35	Single Angle		36
T10-T15 1110-990	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35	Single Angle		36
T16-T17 990-950	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35	Single Angle		36
T18-T22 950-850	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35	Single Angle		36
T23-T24 850-810	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35	Single Angle		36
T25-T29 810-710	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35	Single Angle		36
T30-T31 710-670	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35	Single Angle		36
T32-T36 670-570	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35	Single Angle		36
T37-T38 570-530	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35	Single Angle		36
T39-T43 530-430	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35	Single Angle		36
T44 430-410	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35	Single Angle		36
T45 410-390	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35	Single Angle		36
T46-T50 390-290	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35	Single Angle		36
T51 290-270	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35	Single Angle		36
T52 270-250	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35	Single Angle		36
T53-T57 250-150	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35	Single Angle		36
T58-T59 150-110	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35	Single Angle		36
T60-T63 110-30	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35	Single Angle		36
T64 30-10	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35	Single Angle		36
T65 10-0	Single Angle	L 5 x 5 x 1/2	36	Single Angle		36

### Tower Section Geometry (cont'd)

Tower Elevation ft	No. of Mid Girts	Mid Girt Type	Mid Girt Size	Mid Girt F <sub>y</sub> ksi	Horizontal Type	Horizontal Size	Horizontal F <sub>y</sub> ksi
T1 1246.88-	None	Single Angle		36	Channel	C8x11.5	36



Tower Elevation ft	No. of Mid Girts	Mid Girt Type	Mid Girt Size	Mid Girt $F_y$ ksi	Horizontal Type	Horizontal Size	Horizontal $F_y$ ksi
1239.5							
T2 1239.5-1236.67	None	Single Angle		36	Single Angle	L 3 x 3 x 1/4	36
T3 1236.67-1230	None	Single Angle		36	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35
T4-T7 1230-1150	None	Single Angle		36	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35
T8 1150-1130	None	Single Angle		36	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35
T9 1130-1110	None	Single Angle		36	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35
T10-T15 1110-990	None	Single Angle		36	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35
T16-T17 990-950	None	Single Angle		36	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35
T18-T22 950-850	None	Single Angle		36	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35
T23-T24 850-810	None	Single Angle		36	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35
T25-T29 810-710	None	Single Angle		36	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35
T30-T31 710-670	None	Single Angle		36	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35
T32-T36 670-570	None	Single Angle		36	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35
T37-T38 570-530	None	Single Angle		36	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35
T39-T43 530-430	None	Single Angle		36	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35
T44 430-410	None	Single Angle		36	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35
T45 410-390	None	Single Angle		36	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35
T46-T50 390-290	None	Single Angle		36	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35
T51 290-270	None	Single Angle		36	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35
T52 270-250	None	Single Angle		36	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35
T53-T57 250-150	None	Single Angle		36	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35
T58-T59 150-110	None	Single Angle		36	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35
T60-T63 110-30	None	Single Angle		36	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35
T64 30-10	None	Single Angle		36	Pipe	Pipe 1.9" x 0.145" (1.5 STD)	35
T65 10-0	None	Single Angle		36	Single Angle	L 5 x 5 x 7/16	36

### Tower Section Geometry (cont'd)

Tower Elevation ft	Gusset Area (per face) $ft^2$	Gusset Thickness in	Adjust. Factor $A_f$	Adjust. Factor $A_r$	Weight Mult.	Legs	K Factors <sup>1</sup>									
							X Brace Diags X Y	K Brace Diags X Y	Single Diags X Y	Girts X Y	Horiz. X Y	Inner Brace X Y	Truss Leg X Brace	Truss Leg Z Brace		
T1 1246.88-1239.5	0.00	0.0000	1	1	1	1	1	0.5	1	1	1	1	1	1	0.5	0.85
T2 1239.5-1236.67	0.00	0.0000	1	1	1	1	1	1	1	1	1	1	1	1	0.5	0.85
T3 1236.67-	0.00	0.0000	1	1	1	1	1	1	1	1	1	1	1	1	0.5	0.85



Tower Elevation	Tension Area Factors						Connection Offsets							
	Legs		Inner Members				Diagonals				K-Bracing			
	Net Width Deduct in	U	Single Angle		Double Angle		Vert. Top	Horiz. Top	Vert. Bot.	Horiz. Bot.	Vert. Top	Horiz. Top	Vert. Bot.	Horiz. Bot.
Net Width Deduct in			U	Net Width Deduct in	U	in								
T3 1236.67-1230	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
T4-T7 1230-1150	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
T8 1150-1130	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
T9 1130-1110	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
T10-T15 1110-990	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
T16-T17 990-950	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
T18-T22 950-850	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
T23-T24 850-810	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
T25-T29 810-710	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
T30-T31 710-670	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
T32-T36 670-570	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
T37-T38 570-530	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
T39-T43 530-430	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
T44 430-410	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
T45 410-390	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
T46-T50 390-290	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
T51 290-270	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
T52 270-250	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
T53-T57 250-150	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
T58-T59 150-110	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
T60-T63 110-30	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
T64 30-10	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
T65 10-0	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

## Guy Data

Guy Elevation	Guy Grade	Guy Size	Initial Tension	%	Guy Modulus	Guy Weight	$L_u$	Anchor Radius	Anchor Azimuth Adj. deg	Anchor Elevation	End Fitting Efficiency %	
ft			K		ksi	plf	ft	ft		ft		
1246.88	BS	A	1 1/4	19.20	10%	24000	3.280	1475.59	765.00	0.0000	-18.00	100%
		B	1 1/4	19.20	10%	24000	3.280	1460.20	765.00	0.0000	0.00	100%
		C	1 1/4	19.20	10%	24000	3.280	1406.85	765.00	0.0000	63.00	100%
1130	BS	A	1 1/4	19.20	10%	24000	3.280	1376.83	765.00	0.0000	-18.00	100%
		B	1 1/4	19.20	10%	24000	3.280	1361.87	765.00	0.0000	0.00	100%
		C	1 1/4	19.20	10%	24000	3.280	1310.12	765.00	0.0000	63.00	100%
970	BS	A	1 1/4	19.20	10%	24000	3.280	1246.68	765.00	0.0000	-18.00	100%
		B	1 1/4	19.20	10%	24000	3.280	1232.47	765.00	0.0000	0.00	100%
		C	1 1/4	19.20	10%	24000	3.280	1183.57	765.00	0.0000	63.00	100%
830	BS	A	1 1/8	15.60	10%	24000	2.660	1007.94	550.00	0.0000	-18.00	100%
		B	1 1/8	15.60	10%	24000	2.660	1028.19	550.00	0.0000	-42.00	100%
		C	1 1/8	15.60	10%	24000	2.660	978.72	550.00	0.0000	17.00	100%

690	BS	A	1 1/16	13.80	10%	24000	2.370	893.54	550.00	0.0000	-18.00	100%
		B	1 1/16	13.80	10%	24000	2.370	912.65	550.00	0.0000	-42.00	100%
		C	1 9/16	30.00	10%	24000	5.130	866.10	550.00	0.0000	17.00	100%
550	BS	A	1 1/16	13.80	10%	24000	2.370	787.40	550.00	0.0000	-18.00	100%
		B	1 1/16	13.80	10%	24000	2.370	804.87	550.00	0.0000	-42.00	100%
		C	1 1/16	13.80	10%	24000	2.370	762.57	550.00	0.0000	17.00	100%
410	BS	A	1	12.20	10%	24000	2.100	487.63	280.00	0.0000	7.50	100%
		B	1	12.20	10%	24000	2.100	529.16	280.00	0.0000	-42.00	100%
		C	1	12.20	10%	24000	2.100	469.26	280.00	0.0000	30.00	100%
270	BS	A	1	12.20	10%	24000	2.100	380.57	280.00	0.0000	7.50	100%
		B	1	12.20	10%	24000	2.100	416.20	280.00	0.0000	-42.00	100%
		C	1	12.20	10%	24000	2.100	365.44	280.00	0.0000	30.00	100%
130	BS	A	7/8	9.20	10%	24000	1.610	301.70	280.00	0.0000	7.50	100%
		B	7/8	9.20	10%	24000	1.610	324.93	280.00	0.0000	-42.00	100%
		C	7/8	9.20	10%	24000	1.610	293.30	280.00	0.0000	30.00	100%

### Guy Data(cont'd)

Guy Elevation ft	Mount Type	Torque-Arm Spread ft	Torque-Arm Leg Angle deg	Torque-Arm Style	Torque-Arm F <sub>y</sub> ksi	Torque-Arm Type	Torque-Arm Size	Torque-Arm K Factor
1246.88	Corner							
1130	Corner							
970	Corner							
830	Corner							
690	Corner							
550	Corner							
410	Corner							
270	Corner							
130	Corner							

### Guy Data (cont'd)

Guy Elevation ft	Diagonal F <sub>y</sub> ksi	Diagonal Type	Upper Diagonal Size	Lower Diagonal Size	Is Strap.	Pull-Off F <sub>y</sub> ksi	Pull-Off Type	Pull-Off Size
1246.88	36	Solid Round			No	36	Channel	C8x18.75
1130.00	36	Solid Round			No	36	Pipe	Pipe 1.9" x 0.145" (1.5 STD)
970.00	36	Solid Round			No	36	Pipe	Pipe 1.9" x 0.145" (1.5 STD)
830.00	36	Solid Round			No	36	Pipe	Pipe 1.9" x 0.145" (1.5 STD)
690.00	36	Solid Round			No	36	Pipe	Pipe 1.9" x 0.145" (1.5 STD)
550.00	36	Solid Round			No	36	Pipe	Pipe 1.9" x 0.145" (1.5 STD)
410.00	36	Solid Round			No	36	Pipe	Pipe 1.9" x 0.145" (1.5 STD)
270.00	36	Solid Round			No	36	Pipe	Pipe 1.9" x 0.145" (1.5 STD)
130.00	36	Solid Round			No	36	Pipe	Pipe 1.9" x 0.145" (1.5 STD)

### Guy Data (cont'd)

Guy Elevation	Cable Weight			Tower Intercept			
	A K	B K	C K	A ft	B ft	C ft	D ft
1246.88	4.84	4.79	4.61	168.24	164.98	153.89	
1130	4.52	4.47	4.30	147.80	144.81	134.67	
970	4.09	4.04	3.88	122.70	120.10	111.31	
830	2.68	2.73	2.60	80.91	84.03	76.50	
690	2.12	2.16	4.44	64.74	67.40	60.75	
550	1.87	1.91	1.81	50.85	53.02	47.83	
410	1.02	1.11	0.99	19.80	23.22	18.37	
270	0.80	0.87	0.77	12.20	14.53	11.27	
130	0.49	0.52	0.47	7.89	9.11	7.47	

## Guy Pressures

Guy Elevation ft	Guy Location	z ft	q <sub>z</sub>	q <sub>z</sub> Ice
			psf	psf
1246.88	A	614.44	29	22
	B	623.44	29	22
	C	654.94	29	22
1130	A	556.00	28	21
	B	565.00	28	21
	C	596.50	29	22
970	A	476.00	27	20
	B	485.00	27	20
	C	516.50	28	21
830	A	406.00	26	19
	B	394.00	25	19
	C	423.50	26	20
690	A	336.00	24	18
	B	324.00	24	18
	C	353.50	25	19
550	A	266.00	23	17
	B	254.00	22	17
	C	283.50	23	17
410	A	208.75	21	16
	B	184.00	20	15
	C	220.00	22	16
270	A	138.75	19	14
	B	114.00	18	13
	C	150.00	19	14
130	A	68.75	15	12
	B	44.00	14	10
	C	80.00	16	12

## Feed Line/Linear Appurtenances - Non-Structural

Description	Face	Allow Shield	Component Type	Placement ft	Total Number	C <sub>AA</sub>		Weight
						ft <sup>2</sup> /ft	plf	
4 1/8" Rigid Line	C	No	CaAa (In Face)	0.00 - 1246.88	1	No Ice	0.41	5.50
						1/2" Ice	0.51	8.29
						1" Ice	0.61	11.69
						2" Ice	0.81	20.31
						4" Ice	1.21	44.90
4 1/8" Rigid Line	C	No	CaAa (In Face)	0.00 - 1210.00	1	No Ice	0.41	5.50
						1/2" Ice	0.51	8.29
						1" Ice	0.61	11.69
						2" Ice	0.81	20.31
						4" Ice	1.21	44.90
LDF6-50 (1 1/4" foam)	C	No	CaAa (In Face)	0.00 - 1110.00	1	No Ice	0.16	0.66
						1/2" Ice	0.25	1.91

Description	Face	Allow Shield	Component Type	Placement ft	Total Number	C <sub>A</sub> A <sub>A</sub>		Weight plf
						ft <sup>2</sup> /ft	plf	
LDF7-50A (1 5/8" foam)	C	No	CaAa (In Face)	0.00 - 1042.00	1	1" Ice	0.35	3.78
						2" Ice	0.55	9.33
						4" Ice	0.95	27.78
						No Ice	0.20	0.92
						1/2" Ice	0.30	2.43
						1" Ice	0.40	4.56
						2" Ice	0.60	10.64
Climbing Ladder	C	No	CaAa (In Face)	0.00 - 1245.00	1	4" Ice	1.00	30.14
						No Ice	0.29	7.90
						1/2" Ice	0.55	10.60
						1" Ice	0.81	13.30
						2" Ice	1.33	18.70
						4" Ice	2.37	29.50
						LDF4-50A (1/2" foam)	C	No
						1/2" Ice	0.16	0.84
						1" Ice	0.26	2.14
						2" Ice	0.46	6.58
						4" Ice	0.86	22.78

### Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> In Face ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup>	Weight K
L1	1326.88-1306.88	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.00
L2	1306.88-1286.88	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.00
L3	1286.88-1266.88	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.00
L4	1266.88-1246.88	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.00
T1	1246.88-1239.5	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	4.637	0.000	0.08
T2	1239.5-1236.67	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	1.990	0.000	0.04
T3	1236.67-1230	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	4.683	0.000	0.09
T4	1230-1210	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	14.050	0.000	0.27
T5	1210-1190	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	22.300	0.000	0.38
T6	1190-1170	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	22.300	0.000	0.38
T7	1170-1150	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	22.300	0.000	0.38
T8	1150-1130	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	22.300	0.000	0.38
T9	1130-1110	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	22.300	0.000	0.38
T10	1110-1090	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00

Tower Section	Tower Elevation ft	Face	$A_R$ ft <sup>2</sup>	$A_F$ ft <sup>2</sup>	$C_{AA}$ In Face ft <sup>2</sup>	$C_{AA}$ Out Face ft <sup>2</sup>	Weight K
T11	1090-1070	C	0.000	0.000	25.400	0.000	0.39
		A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
T12	1070-1050	C	0.000	0.000	25.400	0.000	0.39
		A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
T13	1050-1030	C	0.000	0.000	25.400	0.000	0.39
		A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
T14	1030-1010	C	0.000	0.000	27.776	0.000	0.40
		A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
T15	1010-990	C	0.000	0.000	29.360	0.000	0.41
		A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
T16	990-970	C	0.000	0.000	29.360	0.000	0.41
		A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
T17	970-950	C	0.000	0.000	29.360	0.000	0.41
		A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
T18	950-930	C	0.000	0.000	29.360	0.000	0.41
		A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
T19	930-910	C	0.000	0.000	29.360	0.000	0.41
		A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
T20	910-890	C	0.000	0.000	29.360	0.000	0.41
		A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
T21	890-870	C	0.000	0.000	29.360	0.000	0.41
		A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
T22	870-850	C	0.000	0.000	29.360	0.000	0.41
		A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
T23	850-830	C	0.000	0.000	29.360	0.000	0.41
		A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
T24	830-810	C	0.000	0.000	29.360	0.000	0.41
		A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
T25	810-790	C	0.000	0.000	29.360	0.000	0.41
		A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
T26	790-770	C	0.000	0.000	29.360	0.000	0.41
		A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
T27	770-750	C	0.000	0.000	29.360	0.000	0.41
		A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
T28	750-730	C	0.000	0.000	29.360	0.000	0.41
		A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
T29	730-710	C	0.000	0.000	29.360	0.000	0.41
		A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
T30	710-690	C	0.000	0.000	29.360	0.000	0.41
		A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
T31	690-670	C	0.000	0.000	29.360	0.000	0.41
		A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
T32	670-650	C	0.000	0.000	29.360	0.000	0.41
		A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00

Tower Section	Tower Elevation ft	Face	$A_R$ ft <sup>2</sup>	$A_F$ ft <sup>2</sup>	$C_{AA}$ In Face ft <sup>2</sup>	$C_{AA}$ Out Face ft <sup>2</sup>	Weight K
T33	650-630	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	29.360	0.000	0.41
T34	630-610	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	29.360	0.000	0.41
T35	610-590	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	29.360	0.000	0.41
T36	590-570	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	29.360	0.000	0.41
T37	570-550	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	29.360	0.000	0.41
T38	550-530	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	29.360	0.000	0.41
T39	530-510	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	29.360	0.000	0.41
T40	510-490	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	29.360	0.000	0.41
T41	490-470	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	29.360	0.000	0.41
T42	470-450	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	29.360	0.000	0.41
T43	450-430	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	29.360	0.000	0.41
T44	430-410	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	29.360	0.000	0.41
T45	410-390	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	29.360	0.000	0.41
T46	390-370	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	29.360	0.000	0.41
T47	370-350	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	29.360	0.000	0.41
T48	350-330	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	29.360	0.000	0.41
T49	330-310	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	29.360	0.000	0.41
T50	310-290	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	29.360	0.000	0.41
T51	290-270	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	29.360	0.000	0.41
T52	270-250	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	29.360	0.000	0.41
T53	250-230	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	29.360	0.000	0.41
T54	230-210	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	29.360	0.000	0.41
T55	210-190	A	0.000	0.000	0.000	0.000	0.00



Tower Section	Tower Elevation ft	Face	$A_R$ ft <sup>2</sup>	$A_F$ ft <sup>2</sup>	$C_{AA}$ In Face ft <sup>2</sup>	$C_{AA}$ Out Face ft <sup>2</sup>	Weight K
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	29.360	0.000	0.41
T56	190-170	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	30.557	0.000	0.41
T57	170-150	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	30.620	0.000	0.41
T58	150-130	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	30.620	0.000	0.41
T59	130-110	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	30.620	0.000	0.41
T60	110-90	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	30.620	0.000	0.41
T61	90-70	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	30.620	0.000	0.41
T62	70-50	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	30.620	0.000	0.41
T63	50-30	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	30.620	0.000	0.41
T64	30-10	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	30.620	0.000	0.41
T65	10-0	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	15.310	0.000	0.21

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

Tower Section	Tower Elevation ft	Face	Ice Thickness in	$A_R$ ft <sup>2</sup>	$A_F$ ft <sup>2</sup>	$C_{AA}$ In Face ft <sup>2</sup>	$C_{AA}$ Out Face ft <sup>2</sup>	Weight K
L1	1326.88-1306.88	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.00
L2	1306.88-1286.88	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.00
L3	1286.88-1266.88	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.00
L4	1266.88-1246.88	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.00
T1	1246.88-1239.5	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	6.805	0.000	0.12
T2	1239.5-1236.67	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	3.010	0.000	0.05
T3	1236.67-1230	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	7.083	0.000	0.13
T4	1230-1210	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	21.250	0.000	0.38
T5	1210-1190	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	31.500	0.000	0.54

Tower Section	Tower Elevation ft	Face	Ice Thickness in	$A_R$ ft <sup>2</sup>	$A_F$ ft <sup>2</sup>	$C_{AA}$ In Face ft <sup>2</sup>	$C_{AA}$ Out Face ft <sup>2</sup>	Weight K
T6	1190-1170	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	31.500	0.000	0.54
T7	1170-1150	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	31.500	0.000	0.54
T8	1150-1130	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	31.500	0.000	0.54
T9	1130-1110	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	31.500	0.000	0.54
T10	1110-1090	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	36.600	0.000	0.58
T11	1090-1070	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	36.600	0.000	0.58
T12	1070-1050	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	36.600	0.000	0.58
T13	1050-1030	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	40.176	0.000	0.61
T14	1030-1010	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T15	1010-990	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T16	990-970	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T17	970-950	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T18	950-930	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T19	930-910	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T20	910-890	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T21	890-870	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T22	870-850	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T23	850-830	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T24	830-810	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T25	810-790	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T26	790-770	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T27	770-750	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T28	750-730	A	0.500	0.000	0.000	0.000	0.000	0.00

Tower Section	Tower Elevation ft	Face	Ice Thickness in	$A_R$ ft <sup>2</sup>	$A_F$ ft <sup>2</sup>	$C_{AA}$ In Face ft <sup>2</sup>	$C_{AA}$ Out Face ft <sup>2</sup>	Weight K
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T29	730-710	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T30	710-690	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T31	690-670	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T32	670-650	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T33	650-630	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T34	630-610	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T35	610-590	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T36	590-570	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T37	570-550	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T38	550-530	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T39	530-510	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T40	510-490	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T41	490-470	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T42	470-450	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T43	450-430	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T44	430-410	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T45	410-390	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T46	390-370	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T47	370-350	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T48	350-330	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T49	330-310	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	42.560	0.000	0.63
T50	310-290	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00

Tower Section	Tower Elevation ft	Face	Ice Thickness in	$A_R$ ft <sup>2</sup>	$A_F$ ft <sup>2</sup>	$C_{AA}$ In Face ft <sup>2</sup>	$C_{AA}$ Out Face ft <sup>2</sup>	Weight K
T51	290-270	C	0.500	0.000	0.000	42.560	0.000	0.63
		A		0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
T52	270-250	C	0.500	0.000	0.000	42.560	0.000	0.63
		A		0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
T53	250-230	C	0.500	0.000	0.000	42.560	0.000	0.63
		A		0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
T54	230-210	C	0.500	0.000	0.000	42.560	0.000	0.63
		A		0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
T55	210-190	C	0.500	0.000	0.000	42.560	0.000	0.63
		A		0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
T56	190-170	C	0.500	0.000	0.000	42.560	0.000	0.63
		A		0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
T57	170-150	C	0.500	0.000	0.000	45.657	0.000	0.65
		A		0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
T58	150-130	C	0.500	0.000	0.000	45.820	0.000	0.65
		A		0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
T59	130-110	C	0.500	0.000	0.000	45.820	0.000	0.65
		A		0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
T60	110-90	C	0.500	0.000	0.000	45.820	0.000	0.65
		A		0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
T61	90-70	C	0.500	0.000	0.000	45.820	0.000	0.65
		A		0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
T62	70-50	C	0.500	0.000	0.000	45.820	0.000	0.65
		A		0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
T63	50-30	C	0.500	0.000	0.000	45.820	0.000	0.65
		A		0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
T64	30-10	C	0.500	0.000	0.000	45.820	0.000	0.65
		A		0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
T65	10-0	C	0.500	0.000	0.000	45.820	0.000	0.65
		A		0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	22.910	0.000	0.32

## Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment deg	Placement ft	$C_{AA}$ Front	$C_{AA}$ Side	Weight K	
			Horz Lateral	Vert			ft <sup>2</sup>	ft <sup>2</sup>		
SHP-8AC	C	None			0.0000	1246.88 - 1326.88	No Ice	43.00	43.00	0.93
							1/2" Ice	57.00	57.00	1.57
							1" Ice	71.00	71.00	2.21
							2" Ice	99.00	99.00	3.49
							4" Ice	155.00	155.00	6.05
Shiveley 6814 8-bay FM w/ radome	C	None			0.0000	1170.00 - 1250.00	No Ice	158.90	158.90	1.64
							1/2" Ice	171.79	171.79	2.61
							1" Ice	71.00	71.00	2.21
							2" Ice	99.00	99.00	3.49

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C <sub>AA</sub> Front	C <sub>AA</sub> Side	Weight	
			Horz Lateral	Vert						
			ft	ft	deg	ft	ft <sup>2</sup>	ft <sup>2</sup>	K	
20' whips	C	None			0.0000	1042.00	4" Ice	155.00	155.00	6.05
							No Ice	5.80	5.80	0.04
							1/2" Ice	7.83	7.83	0.08
							1" Ice	9.88	9.88	0.14
							2" Ice	14.03	14.03	0.28
6 ft sidearm	C	None			0.0000	1042.00	4" Ice	21.59	21.59	0.74
							No Ice	4.10	4.10	0.10
							1/2" Ice	10.27	10.27	0.13
							1" Ice	11.60	11.60	0.40
							2" Ice	15.00	15.00	0.55
PR900	C	None			0.0000	189.00	4" Ice	21.80	21.80	0.85
							No Ice	7.92	7.92	0.04
							1/2" Ice	35.46	35.46	0.12
							1" Ice	11.60	11.60	0.40
							2" Ice	15.00	15.00	0.55
							4" Ice	21.80	21.80	0.85

## Dishes

Description	Face or Leg	Dish Type	Offset Type	Offset Distance	Azimuth Adjustment	Elevation	Outside Diameter	Aperture Area	Weight	
										ft
10 ft grid	C	Grid	From Leg	1.00	Worst	1110.00	10.00	No Ice	0.00	0.26
								1/2" Ice	0.00	0.72
								1" Ice	0.00	1.17
								2" Ice	0.00	2.08
								4" Ice	0.00	3.90

## Force Totals - Guy Tensions/Wind Forces Excluded

Load Case	Total Weight	Sum of Forces X	Sum of Forces Z	Sum of Overturning Moments, M <sub>x</sub>	Sum of Overturning Moments, M <sub>z</sub>	Sum of Torques
	K	K	K	lb-ft	lb-ft	lb-ft
Leg Weight	156.52					
Bracing Weight	26.06					
Total Member Self-Weight	182.58					
Guy Weight	68.90			665.47	1152.63	
Wind 0 deg - No Ice	279.56	0.00	-112.12	-80737468.84	1152.63	-6615.38
Wind 30 deg - No Ice	279.56	55.96	-96.93	-69760616.99	-40275542.58	-3819.39
Wind 60 deg - No Ice	279.56	96.87	-55.93	-40245239.09	-69706798.86	0.00
Wind 90 deg - No Ice	279.56	111.92	0.00	665.47	-80552237.79	3819.39
Wind 120 deg - No Ice	279.56	97.09	56.06	40369732.63	-69920122.74	6615.38
Wind 150 deg - No Ice	279.56	55.96	96.93	69761947.94	-40275542.58	7638.79
Wind 180 deg - No Ice	279.56	0.00	111.86	80492474.59	1152.63	6615.38
Wind 210 deg - No Ice	279.56	-55.96	96.93	69761947.94	40277847.84	3819.39
Wind 240 deg - No Ice	279.56	-97.09	56.06	40369732.63	69922428.00	0.00
Wind 270 deg - No Ice	279.56	-111.92	0.00	665.47	80554543.05	-3819.39
Wind 300 deg - No Ice	279.56	-96.87	-55.93	-40245239.09	69709104.13	-6615.38
Wind 330 deg - No Ice	279.56	-55.96	-96.93	-69760616.99	40277847.84	-7638.79
Member Ice	24.87			1809.88	3134.81	
Guy Ice	24.14					
Wind 0 deg - Ice	344.09	0.00	-120.76	-87036682.53	3134.81	-13904.55
Wind 30 deg - Ice	344.09	60.30	-104.44	-75243335.53	-43439670.15	-8027.80
Wind 60 deg - Ice	344.09	104.40	-60.27	-43415514.66	-75197877.22	0.00
Wind 90 deg - Ice	344.09	120.60	0.00	1809.88	-86882475.11	8027.80
Wind 120 deg - Ice	344.09	104.58	60.38	43521056.09	-75374410.73	13904.55
Wind 150 deg - Ice	344.09	60.30	104.44	75246955.29	-43439670.15	16055.59

Load Case	Total Weight K	Sum of Forces X K	Sum of Forces Z K	Sum of Overturning Moments, $M_x$ lb-ft	Sum of Overturning Moments, $M_z$ lb-ft	Sum of Torques lb-ft
Wind 180 deg - Ice	344.09	0.00	120.55	86836458.96	3134.81	13904.55
Wind 210 deg - Ice	344.09	-60.30	104.44	75246955.29	43445939.76	8027.80
Wind 240 deg - Ice	344.09	-104.58	60.38	43521056.09	75380680.34	0.00
Wind 270 deg - Ice	344.09	-120.60	0.00	1809.88	86888744.72	-8027.80
Wind 300 deg - Ice	344.09	-104.40	-60.27	-43415514.66	75204146.84	-13904.55
Wind 330 deg - Ice	344.09	-60.30	-104.44	-75243335.53	43445939.76	-16055.59
Wind 0 deg - Service	279.56	0.00	-57.20	-41192260.20	1152.63	-3375.20
Wind 30 deg - Service	279.56	28.55	-49.45	-35591825.58	-20548181.66	-1948.67
Wind 60 deg - Service	279.56	49.43	-28.54	-20532959.30	-35564128.74	0.00
Wind 90 deg - Service	279.56	57.10	0.00	665.47	-41097515.95	1948.67
Wind 120 deg - Service	279.56	49.54	28.60	20597128.31	-35672967.46	3375.20
Wind 150 deg - Service	279.56	28.55	49.45	35593156.52	-20548181.66	3897.34
Wind 180 deg - Service	279.56	0.00	57.07	41067915.02	1152.63	3375.20
Wind 210 deg - Service	279.56	-28.55	49.45	35593156.52	20550486.92	1948.67
Wind 240 deg - Service	279.56	-49.54	28.60	20597128.31	35675272.72	0.00
Wind 270 deg - Service	279.56	-57.10	0.00	665.47	41099821.21	-1948.67
Wind 300 deg - Service	279.56	-49.43	-28.54	-20532959.30	35566434.01	-3375.20
Wind 330 deg - Service	279.56	-28.55	-49.45	-35591825.58	20550486.92	-3897.34

## Load Combinations

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

# Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K	
Mast	Max. Vert	25	859.90	0.21	-0.20	
	Max. H <sub>x</sub>	10	680.92	0.78	-0.67	
	Max. H <sub>z</sub>	2	675.35	-0.09	0.91	
	Max. M <sub>x</sub>	1	0.00	0.04	-0.07	
	Max. M <sub>z</sub>	1	0.00	0.04	-0.07	
	Max. Torsion	26	443.89	0.12	-0.10	
	Min. Vert	1	588.33	0.04	-0.07	
	Min. H <sub>x</sub>	5	707.96	-0.97	0.04	
	Min. H <sub>z</sub>	8	723.60	0.19	-1.12	
	Min. M <sub>x</sub>	1	0.00	0.04	-0.07	
	Min. M <sub>z</sub>	1	0.00	0.04	-0.07	
	Min. Torsion	20	-450.18	-0.04	-0.61	
	Guy C @ 765 ft Elev 63 ft Azimuth 240 deg	Max. Vert	10	-7.52	-3.49	2.01
		Max. H <sub>x</sub>	10	-7.52	-3.49	2.01
Max. H <sub>z</sub>		17	-143.01	-102.52	59.19	
Min. Vert		17	-143.01	-102.52	59.19	
Min. H <sub>x</sub>		17	-143.01	-102.52	59.19	
Min. H <sub>z</sub>		10	-7.52	-3.49	2.01	
Max. Vert		6	-9.09	3.92	2.26	
Guy B @ 765 ft Elev 0 ft Azimuth 120 deg	Max. H <sub>x</sub>	25	-149.46	101.61	58.66	
	Max. H <sub>z</sub>	25	-149.46	101.61	58.66	
	Min. Vert	25	-149.46	101.61	58.66	
	Min. H <sub>x</sub>	6	-9.09	3.92	2.26	
	Min. H <sub>z</sub>	6	-9.09	3.92	2.26	
	Max. Vert	2	-9.80	0.00	-4.82	
Guy A @ 765 ft Elev -18 ft Azimuth 0 deg	Max. H <sub>x</sub>	24	-82.89	9.88	-61.73	
	Max. H <sub>z</sub>	2	-9.80	0.00	-4.82	
	Min. Vert	21	-151.51	0.00	-117.10	
	Min. H <sub>x</sub>	18	-84.83	-9.87	-63.01	
	Min. H <sub>z</sub>	21	-151.51	0.00	-117.10	
	Max. Vert	10	-4.94	-3.73	2.15	
Guy C @ 550 ft Elev 17 ft Azimuth 240 deg	Max. H <sub>x</sub>	10	-4.94	-3.73	2.15	
	Max. H <sub>z</sub>	17	-94.23	-73.73	42.57	
	Min. Vert	17	-94.23	-73.73	42.57	
	Min. H <sub>x</sub>	17	-94.23	-73.73	42.57	
	Min. H <sub>z</sub>	10	-4.94	-3.73	2.15	
	Max. Vert	6	-7.15	4.13	2.37	
Guy B @ 550 ft Elev -42 ft Azimuth 120 deg	Max. H <sub>x</sub>	25	-106.02	75.58	43.53	
	Max. H <sub>z</sub>	25	-106.02	75.58	43.53	
	Min. Vert	25	-106.02	75.58	43.53	
	Min. H <sub>x</sub>	6	-7.15	4.13	2.37	
	Min. H <sub>z</sub>	6	-7.15	4.13	2.37	
	Max. Vert	2	-6.31	0.01	-4.44	
Guy A @ 550 ft Elev -18 ft Azimuth 0 deg	Max. H <sub>x</sub>	24	-56.37	5.34	-47.00	
	Max. H <sub>z</sub>	2	-6.31	0.01	-4.44	
	Min. Vert	21	-103.09	0.09	-87.34	
	Min. H <sub>x</sub>	18	-58.58	-5.21	-48.74	
	Min. H <sub>z</sub>	21	-103.09	0.09	-87.34	
	Max. Vert	10	-2.53	-4.46	2.58	
Guy C @ 280 ft Elev 30 ft Azimuth 240 deg	Max. Vert	10	-2.53	-4.46	2.58	

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Guy B @ 280 ft Elev -42 ft Azimuth 120 deg	Max. H <sub>x</sub>	10	-2.53	-4.46	2.58
	Max. H <sub>z</sub>	17	-47.49	-49.17	28.39
	Min. Vert	17	-47.49	-49.17	28.39
	Min. H <sub>x</sub>	17	-47.49	-49.17	28.39
	Min. H <sub>z</sub>	10	-2.53	-4.46	2.58
	Max. Vert	6	-5.26	5.01	2.89
	Max. H <sub>x</sub>	25	-56.50	45.69	26.39
	Max. H <sub>z</sub>	25	-56.50	45.69	26.39
	Min. Vert	25	-56.50	45.69	26.39
	Min. H <sub>x</sub>	6	-5.26	5.01	2.89
Guy A @ 280 ft Elev 7.5 ft Azimuth 0 deg	Min. H <sub>z</sub>	6	-5.26	5.01	2.89
	Max. Vert	2	-3.07	0.00	-4.90
	Max. H <sub>x</sub>	24	-25.24	1.72	-28.71
	Max. H <sub>z</sub>	2	-3.07	0.00	-4.90
	Min. Vert	21	-48.75	-0.00	-53.64
	Min. H <sub>x</sub>	18	-26.96	-1.71	-30.72
	Min. H <sub>z</sub>	21	-48.75	-0.00	-53.64

## Tower Mast Reaction Summary

Load Combination	Vertical	Shear <sub>x</sub>	Shear <sub>z</sub>	Overturning Moment, M <sub>x</sub>	Overturning Moment, M <sub>z</sub>	Torque
	K	K	K	lb-ft	lb-ft	lb-ft
Dead Only	588.33	-0.04	0.07	0.00	0.00	0.72
Dead+Wind 0 deg - No Ice	675.35	0.09	-0.91	0.00	0.00	-30.20
Dead+Wind 30 deg - No Ice	708.85	0.59	-0.78	0.00	0.00	249.98
Dead+Wind 60 deg - No Ice	721.72	0.85	-0.52	0.00	0.00	63.69
Dead+Wind 90 deg - No Ice	707.96	0.97	-0.04	0.00	0.00	-178.96
Dead+Wind 120 deg - No Ice	672.25	0.97	0.65	0.00	0.00	51.08
Dead+Wind 150 deg - No Ice	710.17	0.33	0.98	0.00	0.00	294.93
Dead+Wind 180 deg - No Ice	723.60	-0.19	1.12	0.00	0.00	102.52
Dead+Wind 210 deg - No Ice	717.48	-0.59	1.07	0.00	0.00	-247.29
Dead+Wind 240 deg - No Ice	680.92	-0.78	0.67	0.00	0.00	-11.32
Dead+Wind 270 deg - No Ice	713.29	-0.77	0.12	0.00	0.00	191.98
Dead+Wind 300 deg - No Ice	724.88	-0.70	-0.19	0.00	0.00	-159.77
Dead+Wind 330 deg - No Ice	712.52	-0.41	-0.49	0.00	0.00	-315.26
Dead+Ice+Temp	683.90	-0.05	0.10	0.00	0.00	3.94
Dead+Wind 0 deg+Ice+Temp	798.16	0.15	-0.31	0.00	0.00	-21.23
Dead+Wind 30 deg+Ice+Temp	838.66	0.40	-0.29	0.00	0.00	392.93
Dead+Wind 60 deg+Ice+Temp	855.57	0.44	-0.24	0.00	0.00	-50.08
Dead+Wind 90 deg+Ice+Temp	837.19	0.50	-0.04	0.00	0.00	-311.19
Dead+Wind 120 deg+Ice+Temp	793.46	0.60	0.46	0.00	0.00	51.12
Dead+Wind 150 deg+Ice+Temp	839.75	0.04	0.61	0.00	0.00	450.18
Dead+Wind 180 deg+Ice+Temp	857.56	-0.23	0.68	0.00	0.00	85.54
Dead+Wind 210 deg+Ice+Temp	841.40	-0.32	0.70	0.00	0.00	-426.10
Dead+Wind 240 deg+Ice+Temp	803.89	-0.38	0.51	0.00	0.00	-35.62
Dead+Wind 270 deg+Ice+Temp	843.51	-0.26	0.21	0.00	0.00	349.58
Dead+Wind 300 deg+Ice+Temp	859.90	-0.21	0.20	0.00	0.00	-105.02
Dead+Wind 330 deg+Ice+Temp	843.28	-0.12	0.10	0.00	0.00	-443.89
Dead+Wind 0 deg - Service	604.65	0.01	-0.70	0.00	0.00	8.35
Dead+Wind 30 deg - Service	613.57	0.33	-0.59	0.00	0.00	332.35
Dead+Wind 60 deg - Service	620.60	0.56	-0.32	0.00	0.00	36.80
Dead+Wind 90 deg - Service	613.68	0.67	0.05	0.00	0.00	-261.72
Dead+Wind 120 deg - Service	604.80	0.60	0.43	0.00	0.00	0.80
Dead+Wind 150 deg - Service	613.98	0.28	0.68	0.00	0.00	309.95
Dead+Wind 180 deg - Service	621.08	-0.09	0.77	0.00	0.00	84.73
Dead+Wind 210 deg - Service	614.75	-0.44	0.71	0.00	0.00	-239.07
Dead+Wind 240 deg - Service	607.09	-0.69	0.50	0.00	0.00	-15.58
Dead+Wind 270 deg - Service	614.65	-0.71	0.16	0.00	0.00	206.18
Dead+Wind 300 deg - Service	620.85	-0.56	-0.20	0.00	0.00	-131.56



Load Combination	Vertical K	Shear <sub>x</sub> K	Shear <sub>y</sub> K	Overturning Moment, M <sub>x</sub> lb-ft	Overturning Moment, M <sub>y</sub> lb-ft	Torque lb-ft
Dead+Wind 330 deg - Service	613.73	-0.32	-0.52	0.00	0.00	-357.94

## Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.00	-279.54	0.00	0.00	279.54	0.00	0.002%
2	-0.43	-281.40	-166.62	0.43	281.40	166.60	0.008%
3	82.64	-279.74	-143.71	-82.65	279.74	143.68	0.010%
4	143.41	-278.02	-82.73	-143.43	278.02	82.75	0.010%
5	165.91	-279.69	0.32	-165.89	279.69	-0.30	0.010%
6	144.20	-281.30	83.69	-144.18	281.30	-83.67	0.008%
7	83.44	-279.49	144.46	-83.41	279.49	-144.45	0.012%
8	0.43	-277.69	166.37	-0.40	277.69	-166.38	0.012%
9	-82.64	-279.34	143.71	82.60	279.34	-143.70	0.012%
10	-143.63	-281.07	82.86	143.61	281.07	-82.84	0.008%
11	-165.91	-279.40	-0.32	165.89	279.40	0.35	0.011%
12	-143.98	-277.79	-83.56	144.01	277.79	83.53	0.012%
13	-83.44	-279.60	-144.46	83.45	279.60	144.43	0.011%
14	0.00	-344.07	0.00	0.01	344.07	-0.00	0.002%
15	-0.50	-346.52	-195.95	0.50	346.52	195.92	0.007%
16	97.26	-344.10	-169.06	-97.27	344.10	169.03	0.009%
17	168.82	-341.65	-97.36	-168.84	341.65	97.38	0.010%
18	195.26	-344.01	0.36	-195.24	344.01	-0.33	0.009%
19	169.63	-346.36	98.41	-169.61	346.36	-98.39	0.007%
20	98.17	-343.98	169.93	-98.13	343.98	-169.92	0.011%
21	0.50	-341.61	195.73	-0.46	341.61	-195.74	0.011%
22	-97.26	-344.04	169.06	97.22	344.04	-169.06	0.010%
23	-169.00	-346.49	97.46	168.97	346.49	-97.45	0.007%
24	-195.26	-344.12	-0.36	195.23	344.12	0.39	0.010%
25	-169.45	-341.78	-98.30	169.48	341.78	98.27	0.011%
26	-98.17	-344.16	-169.93	98.18	344.16	169.90	0.010%
27	-0.22	-280.49	-85.01	0.23	280.49	85.02	0.002%
28	42.16	-279.65	-73.32	-42.15	279.65	73.32	0.004%
29	73.17	-278.77	-42.21	-73.16	278.77	42.20	0.005%
30	84.65	-279.62	0.17	-84.64	279.62	-0.17	0.003%
31	73.57	-280.44	42.70	-73.58	280.44	-42.70	0.002%
32	42.57	-279.52	73.71	-42.57	279.52	-73.69	0.004%
33	0.22	-278.60	84.88	-0.21	278.60	-84.87	0.006%
34	-42.16	-279.44	73.32	42.17	279.44	-73.31	0.005%
35	-73.28	-280.32	42.27	73.29	280.32	-42.28	0.003%
36	-84.65	-279.47	-0.17	84.65	279.47	0.15	0.005%
37	-73.46	-278.65	-42.63	73.45	278.65	42.62	0.006%
38	-42.57	-279.57	-73.71	42.56	279.57	73.70	0.005%

## Non-Linear Convergence Results

Load Combination.	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	35	0.00018820	0.00000001
2	Yes	114	0.00019615	0.00000001
3	Yes	99	0.00019835	0.00000001
4	Yes	44	0.00018775	0.00000001
5	Yes	101	0.00019864	0.00000001
6	Yes	115	0.00019854	0.00000001
7	Yes	100	0.00019844	0.00000001
8	Yes	50	0.00019608	0.00000001
9	Yes	105	0.00019847	0.00000001
10	Yes	107	0.00019902	0.00000001
11	Yes	93	0.00019379	0.00000001

Section No.	Elevation ft	Size	L ft	L <sub>v</sub> ft	Kl/r	Mast Stability Index	F <sub>c</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>a</sub> K	Ratio P P <sub>a</sub>
T11	1090 - 1070	H1-3 (1.14 CR) - 465 3 1/4" solid	20.00	6.67	98.5	1.00	15.060	8.2958	-149.02	124.94	1.193 X
T12	1070 - 1050	H1-3 (1.19 CR) - 495 3 1/4" solid	20.00	6.67	98.5	1.00	15.060	8.2958	-149.63	124.94	1.198 X
T13	1050 - 1030	H1-3 (1.20 CR) - 525/2 3 1/4" solid	20.00	6.67	98.5	1.00	15.060	8.2958	-147.00	124.94	1.177 X
T14	1030 - 1010	H1-3 (1.18 CR) - 555/2 3 1/4" solid	20.00	6.67	98.5	1.00	15.060	8.2958	-136.16	124.94	1.090 X
T15	1010 - 990	H1-3 (1.09 CR) - 585/2 3 1/4" solid	20.00	6.67	98.5	1.00	15.060	8.2958	-117.05	124.94	0.937
T16	990 - 970	3 1/2" solid	20.00	6.67	91.4	1.00	16.629	9.6211	-150.88	159.99	0.943
T17	970 - 950	3 1/2" solid	20.00	6.67	91.4	1.00	16.629	9.6211	-154.48	159.99	0.966
T18	950 - 930	3 1/2" solid	20.00	6.67	91.4	1.00	16.629	9.6211	-145.28	159.99	0.908
T19	930 - 910	3 1/2" solid	20.00	6.67	91.4	1.00	16.629	9.6211	-153.25	159.99	0.958
T20	910 - 890	3 1/2" solid	20.00	6.67	91.4	1.00	16.629	9.6211	-154.69	159.99	0.967
T21	890 - 870	3 1/2" solid	20.00	6.67	91.4	1.00	16.629	9.6211	-153.48	159.99	0.959
T22	870 - 850	3 1/2" solid	20.00	6.67	91.4	1.00	16.629	9.6211	-145.19	159.99	0.908
T23	850 - 830	3 3/4" solid	20.00	6.67	85.3	1.00	17.925	11.0447	-150.85	197.97	0.762
T24	830 - 810	3 3/4" solid	20.00	6.67	85.3	1.00	17.925	11.0447	-178.54	197.97	0.902
T25	810 - 790	3 3/4" solid	20.00	6.67	85.3	1.00	17.925	11.0447	-194.84	197.97	0.984
T26	790 - 770	3 3/4" solid	20.00	6.67	85.3	1.00	17.925	11.0447	-202.72	197.97	1.024 X
T27	770 - 750	H1-3 (1.02 CR) - 946 3 3/4" solid	20.00	6.67	85.3	1.00	17.925	11.0447	-204.09	197.97	1.031 X
T28	750 - 730	H1-3 (1.03 CR) - 976 3 3/4" solid	20.00	6.67	85.3	1.00	17.925	11.0447	-208.26	197.97	1.052 X
T29	730 - 710	H1-3 (1.05 CR) - 1006 3 3/4" solid	20.00	6.67	85.3	1.00	17.925	11.0447	-227.58	197.97	1.150 X
T30	710 - 690	H1-3 (1.15 CR) - 1036 4 1/4" solid	20.00	6.67	75.3	1.00	19.937	14.1863	-258.62	282.83	0.914
T31	690 - 670	4 1/4" solid	20.00	6.67	75.3	1.00	19.937	14.1863	-267.88	282.83	0.947
T32	670 - 650	4" solid	20.00	6.67	80.0	1.00	19.012	12.5664	-250.07	238.92	1.047

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	Mast Stability Index	F <sub>a</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>o</sub> K	Ratio P P <sub>o</sub>
											X
		HI-3 (1.05 CR) - 1126/2									
T33	650 - 630	4" solid	20.00	6.67	80.0	1.00	19.012	12.5664	-235.29	238.92	0.985
T34	630 - 610	4" solid	20.00	6.67	80.0	1.00	19.012	12.5664	-225.78	238.92	0.945
T35	610 - 590	4" solid	20.00	6.67	80.0	1.00	19.012	12.5664	-224.58	238.92	0.940
T36	590 - 570	4" solid	20.00	6.67	80.0	1.00	19.012	12.5664	-235.68	238.92	0.986
T37	570 - 550	4" solid	20.00	6.67	80.0	1.00	19.012	12.5664	-254.98	238.92	1.067
											X
		HI-3 (1.07 CR) - 1275									
T38	550 - 530	4" solid	20.00	6.67	80.0	1.00	19.012	12.5664	-260.39	238.92	1.090
											X
		HI-3 (1.09 CR) - 1305/2									
T39	530 - 510	4" solid	20.00	6.67	80.0	1.00	19.012	12.5664	-250.12	238.92	1.047
											X
		HI-3 (1.05 CR) - 1335									
T40	510 - 490	4" solid	20.00	6.67	80.0	1.00	19.012	12.5664	-262.97	238.92	1.101
											X
		HI-3 (1.10 CR) - 1365									
T41	490 - 470	4" solid	20.00	6.67	80.0	1.00	19.012	12.5664	-267.31	238.92	1.119
											X
		HI-3 (1.12 CR) - 1395									
T42	470 - 450	4" solid	20.00	6.67	80.0	1.00	19.012	12.5664	-267.70	238.92	1.120
											X
		HI-3 (1.12 CR) - 1425/2									
T43	450 - 430	4" solid	20.00	6.67	80.0	1.00	19.012	12.5664	-263.20	238.92	1.102
											X
		HI-3 (1.10 CR) - 1455/2									
T44	430 - 410	4" solid	20.00	6.67	80.0	1.00	19.012	12.5664	-266.54	238.92	1.116
											X
		HI-3 (1.12 CR) - 1485									
T45	410 - 390	4 1/4" solid	20.00	6.67	75.3	1.00	19.937	14.1863	-275.35	282.83	0.974
T46	390 - 370	4 1/4" solid	20.00	6.67	75.3	1.00	19.937	14.1863	-275.84	282.83	0.975
T47	370 - 350	4 1/4" solid	20.00	6.67	75.3	1.00	19.937	14.1863	-276.57	282.83	0.978
T48	350 - 330	4 1/4" solid	20.00	6.67	75.3	1.00	19.937	14.1863	-274.39	282.83	0.970
T49	330 - 310	4 1/4" solid	20.00	6.67	75.3	1.00	19.937	14.1863	-270.37	282.83	0.956
T50	310 - 290	4 1/4" solid	20.00	6.67	75.3	1.00	19.937	14.1863	-276.53	282.83	0.978
T51	290 - 270	4 1/4" solid	20.00	6.67	75.3	1.00	19.937	14.1863	-289.94	282.83	1.025
											X
		HI-3 (1.03 CR) - 1695									
T52	270 - 250	4 1/2" solid	20.00	6.67	71.1	1.00	20.731	15.9043	-293.66	329.71	0.891
T53	250 - 230	4 1/2" solid	20.00	6.67	71.1	1.00	20.731	15.9043	-281.73	329.71	0.854

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	Mast Stability Index	F <sub>a</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>a</sub> K	Ratio P P <sub>a</sub>
T54	230 - 210	4 1/2" solid	20.00	6.67	71.1	1.00	20.731	15.9043	-274.39	329.71	0.832 ✓
T55	210 - 190	4 1/2" solid	20.00	6.67	71.1	1.00	20.731	15.9043	-269.71	329.71	0.818 ✓
T56	190 - 170	4 1/2" solid	20.00	6.67	71.1	1.00	20.731	15.9043	-270.33	329.71	0.820 ✓
T57	170 - 150	4 1/2" solid	20.00	6.67	71.1	1.00	20.731	15.9043	-275.31	329.71	0.835 ✓
T58	150 - 130	4 1/2" solid	20.00	6.67	71.1	1.00	20.731	15.9043	-286.16	329.71	0.868 ✓
T59	130 - 110	4 1/2" solid	20.00	6.67	71.1	1.00	20.731	15.9043	-289.29	329.71	0.877 ✓
T60	110 - 90	4 1/2" solid	20.00	6.67	71.1	1.00	20.731	15.9043	-286.29	329.71	0.868 ✓
T61	90 - 70	4 1/2" solid	20.00	6.67	71.1	1.00	20.731	15.9043	-294.34	329.71	0.893 ✓
T62	70 - 50	4 1/2" solid	20.00	6.67	71.1	1.00	20.731	15.9043	-297.41	329.71	0.902 ✓
T63	50 - 30	4 1/2" solid	20.00	6.67	71.1	1.00	20.731	15.9043	-297.83	329.71	0.903 ✓
T64	30 - 10	4 1/2" solid	20.00	6.67	71.1	1.00	20.731	15.9043	-295.88	329.71	0.897 ✓
T65	10 - 0	4 1/2" solid	10.79	4.38	46.7	1.00	24.851	15.9043	-331.79	395.24	0.839 ✓

### Diagonal Design Data (Compression):

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	F <sub>a</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>a</sub> K	Ratio P P <sub>a</sub>
L1	1326.88 - 1306.88	3/4" solid	3.19	2.93	159.2	5.889	0.4418	-0.95	2.60	0.366 ✓
L2	1306.88 - 1286.88	7/8" solid	3.19	2.92	136.1	8.056	0.6013	-1.96	4.84	0.404 ✓
L3	1286.88 - 1266.88	7/8" solid	3.19	2.89	134.6	8.242	0.6013	-2.91	4.96	0.587 ✓
L4	1266.88 - 1246.88	1" solid	3.19	2.83	115.4	10.938	0.7854	-4.35	8.59	0.506 ✓
T1	1246.88 - 1239.5	L 3 x 3 x 1/4	8.16	7.87	101.5	12.783	1.4375	-10.70	18.38	0.582 ✓
T2	1239.5 - 1236.67	L 3 x 3 x 1/4	4.50	4.34	88.0	14.445	1.4375	-3.36	20.77	0.162 ✓

### Horizontal Design Data (Compression):

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	F <sub>a</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>a</sub> K	Ratio P P <sub>a</sub>
L1	1326.88 - 1306.88	3/4" solid	2.00	1.83	99.7	13.012	0.4418	-0.06	5.75	0.011 ✓
L2	1306.88 -	3/4" solid	2.00	1.83	99.7	13.012	0.4418	-0.12	5.75	0.021 ✓

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	F <sub>a</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>a</sub> K	Ratio P P <sub>a</sub>
L3	1286.88 - 1266.88	3/4" solid	2.00	1.81	98.6	13.154	0.4418	-0.25	5.81	0.043
L4	1266.88 - 1246.88	3/4" solid	2.00	1.77	96.3	13.437	0.4418	-0.42	5.94	0.070
T2	1239.5 - 1236.67	L 3 x 3 x 1/4	7.00	6.75	87.1	14.550	1.4375	-0.66	20.92	0.031
T4	1230 - 1210	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.75	130.1	8.823	0.7995	-3.54	7.05	0.502
T5	1210 - 1190	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.75	130.1	8.823	0.7995	-2.30	7.05	0.326
T6	1190 - 1170	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.75	130.1	8.823	0.7995	-2.37	7.05	0.336
T7	1170 - 1150	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.75	130.1	8.823	0.7995	-3.80	7.05	0.538
T8	1150 - 1130	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.75	130.1	8.823	0.7995	-4.91	7.05	0.697
T9	1130 - 1110	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.73	129.7	8.877	0.7995	-7.20	7.10	1.015
T10	1110 - 1090	H1-3 (1.01 CR) - 456 Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.73	129.7	8.877	0.7995	-2.98	7.10	0.420
T11	1090 - 1070	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.73	129.7	8.877	0.7995	-1.83	7.10	0.257
T12	1070 - 1050	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.73	129.7	8.877	0.7995	-2.36	7.10	0.332
T13	1050 - 1030	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.73	129.7	8.877	0.7995	-3.91	7.10	0.550
T14	1030 - 1010	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.73	129.7	8.877	0.7995	-5.32	7.10	0.750
T15	1010 - 990	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.73	129.7	8.877	0.7995	-6.75	7.10	0.951
T16	990 - 970	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.71	129.3	8.933	0.7995	-7.78	7.14	1.090
T17	970 - 950	H1-3 (1.09 CR) - 659 Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.71	129.3	8.933	0.7995	-5.38	7.14	0.753
T18	950 - 930	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.71	129.3	8.933	0.7995	-4.30	7.14	0.602
T19	930 - 910	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.71	129.3	8.933	0.7995	-2.96	7.14	0.414
T20	910 - 890	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.71	129.3	8.933	0.7995	-1.61	7.14	0.225
T21	890 - 870	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.71	129.3	8.933	0.7995	-2.27	7.14	0.318
T22	870 - 850	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.71	129.3	8.933	0.7995	-3.85	7.14	0.540
T23	850 - 830	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.69	128.9	8.988	0.7995	-5.10	7.19	0.710
T24	830 - 810	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.69	128.9	8.988	0.7995	-4.60	7.19	0.640
T25	810 - 790	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.69	128.9	8.988	0.7995	-3.51	7.19	0.489
T26	790 - 770	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.69	128.9	8.988	0.7995	-3.38	7.19	0.471
T27	770 - 750	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.69	128.9	8.988	0.7995	-4.69	7.19	0.653
T28	750 - 730	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.69	128.9	8.988	0.7995	-5.90	7.19	0.821

Section No.	Elevation ft	Size	L ft	L <sub>w</sub> ft	Kl/r	F <sub>a</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>a</sub> K	Ratio P P <sub>a</sub>
T29	730 - 710	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.69	128.9	8.988	0.7995	-6.89	7.19	0.959
T30	710 - 690	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.65	128.1	9.101	0.7995	-7.51	7.28	1.033
T31	690 - 670	H1-3 (1.03 CR) - 1086 Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.65	128.1	9.101	0.7995	-5.82	7.28	0.800
T32	670 - 650	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	9.045	0.7995	-5.37	7.23	0.743
T33	650 - 630	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	9.045	0.7995	-4.57	7.23	0.633
T34	630 - 610	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	9.045	0.7995	-3.63	7.23	0.502
T35	610 - 590	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	9.045	0.7995	-4.37	7.23	0.604
T36	590 - 570	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	9.045	0.7995	-5.64	7.23	0.780
T37	570 - 550	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	9.045	0.7995	-6.38	7.23	0.883
T38	550 - 530	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	9.045	0.7995	-5.44	7.23	0.752
T39	530 - 510	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	9.045	0.7995	-4.54	7.23	0.628
T40	510 - 490	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	9.045	0.7995	-3.30	7.23	0.456
T41	490 - 470	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	9.045	0.7995	-1.95	7.23	0.269
T42	470 - 450	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	9.045	0.7995	-1.50	7.23	0.207
T43	450 - 430	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	9.045	0.7995	-2.65	7.23	0.367
T44	430 - 410	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	9.045	0.7995	-3.63	7.23	0.501
T45	410 - 390	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.65	128.1	9.101	0.7995	-2.99	7.28	0.411
T46	390 - 370	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.65	128.1	9.101	0.7995	-2.05	7.28	0.282
T47	370 - 350	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.65	128.1	9.101	0.7995	-0.94	7.28	0.130
T48	350 - 330	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.65	128.1	9.101	0.7995	-2.32	7.28	0.319
T49	330 - 310	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.65	128.1	9.101	0.7995	-3.77	7.28	0.518
T50	310 - 290	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.65	128.1	9.101	0.7995	-5.01	7.28	0.689
T51	290 - 270	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.65	128.1	9.101	0.7995	-5.68	7.28	0.781
T52	270 - 250	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	9.159	0.7995	-4.16	7.32	0.568
T53	250 - 230	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	9.159	0.7995	-3.52	7.32	0.481
T54	230 - 210	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	9.159	0.7995	-2.47	7.32	0.337
T55	210 - 190	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	9.159	0.7995	-1.30	7.32	0.178
T56	190 - 170	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	9.159	0.7995	-1.67	7.32	0.229

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	F <sub>a</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>a</sub> K	Ratio $\frac{P}{P_a}$
T57	170 - 150	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	9.159	0.7995	-2.65	7.32	0.362
T58	150 - 130	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	9.159	0.7995	-3.25	7.32	0.444
T59	130 - 110	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	9.159	0.7995	-3.17	7.32	0.433
T60	110 - 90	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	9.159	0.7995	-2.58	7.32	0.353
T61	90 - 70	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	9.159	0.7995	-1.65	7.32	0.225
T62	70 - 50	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	9.159	0.7995	-0.72	7.32	0.098*
T63	50 - 30	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	9.159	0.7995	-0.99	7.32	0.135
T64	30 - 10	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	9.159	0.7995	-1.52	7.32	0.207
T65	10 - 0	L 5 x 5 x 7/16	4.16	3.78	46.0	18.695	4.1800	-18.89	78.14	0.242*

\* DL controls

### Secondary Horizontal Design Data (Compression):

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	F <sub>a</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>a</sub> K	Ratio $\frac{P}{P_a}$
L1	1326.88 - 1306.88	5/8" solid	1.00	0.92	59.9	17.443	0.3068	-0.00	5.35	0.000
L2	1306.88 - 1286.88	5/8" solid	1.00	0.92	59.9	17.443	0.3068	-0.00	5.35	0.000
L3	1286.88 - 1266.88	5/8" solid	1.00	0.91	59.2	17.508	0.3068	-0.00	5.37	0.000
L4	1266.88 - 1246.88	5/8" solid	1.00	0.89	57.8	17.637	0.3068	-0.00	5.41	0.000

### Top Girt Design Data (Compression):

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	F <sub>a</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>a</sub> K	Ratio $\frac{P}{P_a}$
L1	1326.88 - 1306.88	3/4" solid	2.00	1.83	99.7	13.012	0.4418	-0.02	5.75	0.003
L2	1306.88 - 1286.88	3/4" solid	2.00	1.83	99.7	13.012	0.4418	-0.11	5.75	0.018
L3	1286.88 - 1266.88	3/4" solid	2.00	1.81	98.6	13.154	0.4418	-0.15	5.81	0.027
L4	1266.88 - 1246.88	3/4" solid	2.00	1.77	96.3	13.437	0.4418	-0.18	5.94	0.030
T3	1236.67 - 1230	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.75	130.1	8.823	0.7995	-2.05	7.05	0.290
T4	1230 - 1210	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.75	130.1	8.823	0.7995	-4.08	7.05	0.579
T5	1210 - 1190	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.75	130.1	8.823	0.7995	-2.33	7.05	0.330

Section No.	Elevation ft	Size	L ft	L <sub>a</sub> ft	Kl/r	F <sub>a</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>a</sub> K	Ratio P P <sub>a</sub>
T6	1190 - 1170	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.75	130.1	8.823	0.7995	-2.29	7.05	0.325
T7	1170 - 1150	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.75	130.1	8.823	0.7995	-2.97	7.05	0.422
T8	1150 - 1130	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.75	130.1	8.823	0.7995	-4.19	7.05	0.595
T10	1110 - 1090	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.73	129.7	8.877	0.7995	-4.64	7.10	0.653
T11	1090 - 1070	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.73	129.7	8.877	0.7995	-2.01	7.10	0.283
T12	1070 - 1050	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.73	129.7	8.877	0.7995	-1.83	7.10	0.258
T13	1050 - 1030	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.73	129.7	8.877	0.7995	-2.79	7.10	0.393
T14	1030 - 1010	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.73	129.7	8.877	0.7995	-4.37	7.10	0.616
T15	1010 - 990	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.73	129.7	8.877	0.7995	-5.82	7.10	0.820
T16	990 - 970	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.73	129.7	8.877	0.7995	-7.19	7.10	1.013
T18	950 - 930	HI-3 (1.01 CR) - 650 Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.71	129.3	8.933	0.7995	-4.74	7.14	0.664
T19	930 - 910	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.71	129.3	8.933	0.7995	-3.39	7.14	0.475
T20	910 - 890	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.71	129.3	8.933	0.7995	-2.07	7.14	0.289
T21	890 - 870	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.71	129.3	8.933	0.7995	-1.44	7.14	0.201
T22	870 - 850	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.71	129.3	8.933	0.7995	-2.82	7.14	0.394
T23	850 - 830	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.71	129.3	8.933	0.7995	-4.32	7.14	0.606
T25	810 - 790	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.69	128.9	8.988	0.7995	-3.93	7.19	0.547
T26	790 - 770	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.69	128.9	8.988	0.7995	-2.66	7.19	0.370
T27	770 - 750	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.69	128.9	8.988	0.7995	-3.81	7.19	0.531
T28	750 - 730	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.69	128.9	8.988	0.7995	-5.11	7.19	0.712
T29	730 - 710	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.69	128.9	8.988	0.7995	-6.27	7.19	0.872
T30	710 - 690	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.69	128.9	8.988	0.7995	-7.19	7.19	1.001
T32	670 - 650	HI-3 (1.00 CR) - 1068 Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	9.045	0.7995	-5.54	7.23	0.767
T33	650 - 630	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	9.045	0.7995	-4.86	7.23	0.672
T34	630 - 610	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	9.045	0.7995	-3.96	7.23	0.547
T35	610 - 590	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	9.045	0.7995	-3.48	7.23	0.481
T36	590 - 570	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	9.045	0.7995	-4.80	7.23	0.664
T37	570 - 550	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	9.045	0.7995	-6.00	7.23	0.829



Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	F <sub>a</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>a</sub> K	Ratio P P <sub>a</sub>
T39	530 - 510	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	9.045	0.7995	-4.93	7.23	0.682
T40	510 - 490	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	9.045	0.7995	-3.73	7.23	0.515
T41	490 - 470	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	9.045	0.7995	-2.40	7.23	0.332
T42	470 - 450	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	9.045	0.7995	-1.05	7.23	0.145
T43	450 - 430	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	9.045	0.7995	-1.86	7.23	0.257
T44	430 - 410	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	9.045	0.7995	-3.03	7.23	0.419
T46	390 - 370	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.65	128.1	9.101	0.7995	-2.42	7.28	0.332
T47	370 - 350	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.65	128.1	9.101	0.7995	-1.25	7.28	0.172
T48	350 - 330	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.65	128.1	9.101	0.7995	-1.29	7.28	0.177
T49	330 - 310	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.65	128.1	9.101	0.7995	-2.82	7.28	0.387
T50	310 - 290	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.65	128.1	9.101	0.7995	-4.22	7.28	0.580
T51	290 - 270	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.65	128.1	9.101	0.7995	-5.31	7.28	0.730
T53	250 - 230	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	9.159	0.7995	-3.81	7.32	0.521
T54	230 - 210	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	9.159	0.7995	-2.85	7.32	0.389
T55	210 - 190	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	9.159	0.7995	-1.69	7.32	0.231
T56	190 - 170	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	9.159	0.7995	-0.86	7.32	0.118
T57	170 - 150	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	9.159	0.7995	-2.03	7.32	0.278
T58	150 - 130	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	9.159	0.7995	-2.95	7.32	0.403
T60	110 - 90	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	9.159	0.7995	-2.84	7.32	0.388
T61	90 - 70	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	9.159	0.7995	-1.97	7.32	0.269
T62	70 - 50	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	9.159	0.7995	-0.99	7.32	0.135
T63	50 - 30	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	9.159	0.7995	-0.71	7.32	0.096
T64	30 - 10	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	9.159	0.7995	-1.22	7.32	0.166

\* DL controls

### Bottom Girt Design Data (Compression):

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	F <sub>a</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>a</sub> K	Ratio P P <sub>a</sub>
L1	1326.88 - 1306.88	3/4" solid	2.00	1.83	99.7	13.012	0.4418	-0.06	5.75	0.010

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	KL/r	F <sub>a</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>a</sub> K	Ratio P P <sub>a</sub>
L2	1306.88 - 1286.88	3/4" solid	2.00	1.83	99.7	13.012	0.4418	-0.11	5.75	0.020 ✓
L3	1286.88 - 1266.88	3/4" solid	2.00	1.81	98.6	13.154	0.4418	-0.13	5.81	0.023 ✓
L4	1266.88 - 1246.88	3/4" solid	2.00	1.77	96.3	13.437	0.4418	-0.00	5.94	0.000 ✓

### Mid Girt Design Data (Compression):

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	KL/r	F <sub>a</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>a</sub> K	Ratio P P <sub>a</sub>
L1	1326.88 - 1306.88	3/4" solid	2.00	1.83	99.7	13.012	0.4418	-0.04	5.75	0.007 ✓
L2	1306.88 - 1286.88	3/4" solid	2.00	1.83	99.7	13.012	0.4418	-0.06	5.75	0.010 ✓
L3	1286.88 - 1266.88	3/4" solid	2.00	1.81	98.6	13.154	0.4418	-0.16	5.81	0.027 ✓
L4	1266.88 - 1246.88	3/4" solid	2.00	1.77	96.3	13.437	0.4418	-0.36	5.94	0.060 ✓

### Guy Pull-Off Design Data (Compression):

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	KL/r	F <sub>a</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>a</sub> K	Ratio P P <sub>a</sub>
T1	1246.88 - 1239.5	C8x18.75	7.00	6.75	135.1	8.179	5.5100	-0.00	45.07	0.000 ✓

### Tension Checks

### Leg Design Data (Tension):

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	KL/r	F <sub>a</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>a</sub> K	Ratio P P <sub>a</sub>
L1	1326.88 - 1306.88	2" solid	20.00	2.49	59.8	30.000	3.1416	4.91	94.25	0.052 ✓
L2	1306.88 - 1286.88	2" solid	20.00	2.48	59.5	30.000	3.1416	20.58	94.25	0.218 ✓
L3	1286.88 - 1266.88	2 1/4" solid	20.00	2.48	52.9	30.000	3.9761	46.91	119.28	0.393 ✓
L4	1266.88 - 1246.88	2 3/4" solid	20.00	2.49	43.5	30.000	5.9396	81.60	178.19	0.458 ✓
T30	710 - 690	4 1/4" solid	20.00	6.67	75.3	30.000	14.1863	3.10	425.59	0.007 ✓

### Diagonal Design Data (Tension):

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	F <sub>a</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>a</sub> K	Ratio P P <sub>a</sub>
L1	1326.88 - 1306.88	3/4" solid	3.19	2.93	187.3	21.600	0.4418	0.94	9.54	0.098
L2	1306.88 - 1286.88	7/8" solid	3.19	2.92	160.2	21.600	0.6013	1.92	12.99	0.148
L3	1286.88 - 1266.88	7/8" solid	3.19	2.89	158.4	21.600	0.6013	2.86	12.99	0.220
L4	1266.88 - 1246.88	1" solid	3.19	2.83	135.7	21.600	0.7854	4.35	16.96	0.256
T1	1246.88 - 1239.5	L 3 x 3 x 1/4	8.16	7.87	101.5	21.600	1.0781	1.85	23.29	0.079
T2	1239.5 - 1236.67	L 3 x 3 x 1/4	4.50	4.34	56.0	21.600	1.0781	3.20	23.29	0.137
T3	1236.67 - 1230	5/8" solid	9.67	9.32	715.9	21.600	0.3068	5.95	6.63	0.898
T4	1230 - 1210	5/8" solid	9.67	9.32	715.9	21.600	0.3068	5.32	6.63	0.803
T5	1210 - 1190	5/8" solid	9.67	9.32	715.9	21.600	0.3068	2.77	6.63	0.417
T6	1190 - 1170	5/8" solid	9.67	9.32	715.9	21.600	0.3068	3.75	6.63	0.565
T7	1170 - 1150	5/8" solid	9.67	9.32	715.9	21.600	0.3068	5.51	6.63	0.831
T8	1150 - 1130	3/4" solid	9.67	9.32	596.6	21.600	0.4418	7.09	9.54	0.743
T9	1130 - 1110	3/4" solid	9.67	9.29	594.7	21.600	0.4418	10.19	9.54	1.067
T10	1110 - 1090	H2-1 (1.07 CR) - 460 5/8" solid	9.67	9.29	713.7	21.600	0.3068	4.36	6.63	0.658
T11	1090 - 1070	5/8" solid	9.67	9.29	713.7	21.600	0.3068	2.40	6.63	0.362
T12	1070 - 1050	5/8" solid	9.67	9.29	713.7	21.600	0.3068	3.66	6.63	0.552
T13	1050 - 1030	5/8" solid	9.67	9.29	713.7	21.600	0.3068	5.86	6.63	0.885
T14	1030 - 1010	5/8" solid	9.67	9.29	713.7	21.600	0.3068	7.71	6.63	1.164
T15	1010 - 990	H2-1 (1.16 CR) - 595 5/8" solid	9.67	9.29	713.7	21.600	0.3068	9.59	6.63	1.447
T16	990 - 970	H2-1 (1.45 CR) - 625 3/4" solid	9.67	9.26	592.9	21.600	0.4418	10.86	9.54	1.138
T17	970 - 950	H2-1 (1.14 CR) - 655 3/4" solid	9.67	9.26	592.9	21.600	0.4418	7.50	9.54	0.786
T18	950 - 930	5/8" solid	9.67	9.26	711.5	21.600	0.3068	6.22	6.63	0.939
T19	930 - 910	5/8" solid	9.67	9.26	711.5	21.600	0.3068	4.30	6.63	0.648
T20	910 - 890	5/8" solid	9.67	9.26	711.5	21.600	0.3068	2.44	6.63	0.368
T21	890 - 870	5/8" solid	9.67	9.26	711.5	21.600	0.3068	3.52	6.63	0.531
T22	870 - 850	5/8" solid	9.67	9.26	711.5	21.600	0.3068	5.62	6.63	0.848
T23	850 - 830	3/4" solid	9.67	9.24	591.0	21.600	0.4418	7.32	9.54	0.767
T24	830 - 810	3/4" solid	9.67	9.24	591.0	21.600	0.4418	6.63	9.54	0.695

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	F <sub>a</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>a</sub> K	Ratio P P <sub>a</sub>
T25	810 - 790	5/8" solid	9.67	9.24	709.3	21.600	0.3068	5.21	6.63	0.786 ✓
T26	790 - 770	5/8" solid	9.67	9.24	709.3	21.600	0.3068	5.03	6.63	0.760 ✓
T27	770 - 750	5/8" solid	9.67	9.24	709.3	21.600	0.3068	6.76	6.63	1.020 ✓
T28	750 - 730	H2-1 (1.02 CR) - 981 5/8" solid	9.67	9.24	709.3	21.600	0.3068	8.38	6.63	1.264 X
T29	730 - 710	H2-1 (1.26 CR) - 1011 5/8" solid	9.67	9.24	709.3	21.600	0.3068	9.51	6.63	1.435 X
T30	710 - 690	H2-1 (1.44 CR) - 1041 3/4" solid	9.67	9.18	587.4	21.600	0.4418	10.33	9.54	1.083 X
T31	690 - 670	H2-1 (1.08 CR) - 1080 3/4" solid	9.67	9.18	587.4	21.600	0.4418	7.96	9.54	0.834 X
T32	670 - 650	5/8" solid	9.67	9.21	707.0	21.600	0.3068	7.45	6.63	1.124 ✓
T33	650 - 630	H2-1 (1.12 CR) - 1150 5/8" solid	9.67	9.21	707.0	21.600	0.3068	6.58	6.63	0.993 X
T34	630 - 610	5/8" solid	9.67	9.21	707.0	21.600	0.3068	5.32	6.63	0.803 ✓
T35	610 - 590	5/8" solid	9.67	9.21	707.0	21.600	0.3068	6.43	6.63	0.970 ✓
T36	590 - 570	5/8" solid	9.67	9.21	707.0	21.600	0.3068	7.98	6.63	1.205 ✓
T37	570 - 550	H2-1 (1.20 CR) - 1252 3/4" solid	9.67	9.21	589.2	21.600	0.4418	8.95	9.54	0.938 X
T38	550 - 530	3/4" solid	9.67	9.21	589.2	21.600	0.4418	7.65	9.54	0.802 ✓
T39	530 - 510	5/8" solid	9.67	9.21	707.0	21.600	0.3068	6.54	6.63	0.986 ✓
T40	510 - 490	5/8" solid	9.67	9.21	707.0	21.600	0.3068	4.78	6.63	0.721 ✓
T41	490 - 470	5/8" solid	9.67	9.21	707.0	21.600	0.3068	2.92	6.63	0.441 ✓
T42	470 - 450	5/8" solid	9.67	9.21	707.0	21.600	0.3068	2.43	6.63	0.367 ✓
T43	450 - 430	5/8" solid	9.67	9.21	707.0	21.600	0.3068	4.00	6.63	0.604 ✓
T44	430 - 410	3/4" solid	9.67	9.21	589.2	21.600	0.4418	5.11	9.54	0.535 ✓
T45	410 - 390	3/4" solid	9.67	9.18	587.4	21.600	0.4418	4.23	9.54	0.443 ✓
T46	390 - 370	5/8" solid	9.67	9.18	704.8	21.600	0.3068	3.07	6.63	0.463 ✓
T47	370 - 350	5/8" solid	9.67	9.18	704.8	21.600	0.3068	1.48	6.63	0.223 ✓
T48	350 - 330	5/8" solid	9.67	9.18	704.8	21.600	0.3068	3.55	6.63	0.536 ✓
T49	330 - 310	5/8" solid	9.67	9.18	704.8	21.600	0.3068	5.53	6.63	0.835 ✓
T50	310 - 290	5/8" solid	9.67	9.18	704.8	21.600	0.3068	7.08	6.63	1.068 X

H2-1 (1.07 CR) - 1671

Section No.	Elevation ft	Size	L ft	L <sub>w</sub> ft	Kl/r	F <sub>a</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>a</sub> K	Ratio P P <sub>a</sub>
T51	290 - 270	3/4" solid	9.67	9.18	587.4	21.600	0.4418	7.95	9.54	0.833
T52	270 - 250	3/4" solid	9.67	9.15	585.5	21.600	0.4418	5.84	9.54	0.612
T53	250 - 230	5/8" solid	9.67	9.15	702.6	21.600	0.3068	5.00	6.63	0.755
T54	230 - 210	5/8" solid	9.67	9.15	702.6	21.600	0.3068	3.68	6.63	0.555
T55	210 - 190	5/8" solid	9.67	9.15	702.6	21.600	0.3068	2.07	6.63	0.312
T56	190 - 170	5/8" solid	9.67	9.15	702.6	21.600	0.3068	2.48	6.63	0.374
T57	170 - 150	5/8" solid	9.67	9.15	702.6	21.600	0.3068	3.76	6.63	0.568
T58	150 - 130	3/4" solid	9.67	9.15	585.5	21.600	0.4418	4.62	9.54	0.484
T59	130 - 110	3/4" solid	9.67	9.15	585.5	21.600	0.4418	4.48	9.54	0.469
T60	110 - 90	5/8" solid	9.67	9.15	702.6	21.600	0.3068	3.71	6.63	0.559
T61	90 - 70	5/8" solid	9.67	9.15	702.6	21.600	0.3068	2.50	6.63	0.378
T62	70 - 50	5/8" solid	9.67	9.15	702.6	21.600	0.3068	1.15	6.63	0.173
T63	50 - 30	5/8" solid	9.67	9.15	702.6	21.600	0.3068	1.48	6.63	0.224
T64	30 - 10	5/8" solid	9.67	9.15	702.6	21.600	0.3068	2.19	6.63	0.331
T65	10 - 0	L 4 x 4 x 3/8	6.95	6.30	61.4	21.600	2.1450	16.87	46.33	0.364*

\* DL controls

### Horizontal Design Data (Tension):

Section No.	Elevation ft	Size	L ft	L <sub>w</sub> ft	Kl/r	F <sub>a</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>a</sub> K	Ratio P P <sub>a</sub>
L1	1326.88 - 1306.88	3/4" solid	2.00	1.83	117.3	21.600	0.4418	0.07	9.54	0.008
L2	1306.88 - 1286.88	3/4" solid	2.00	1.83	117.3	21.600	0.4418	0.13	9.54	0.013
L3	1286.88 - 1266.88	3/4" solid	2.00	1.81	116.0	21.600	0.4418	0.24	9.54	0.025
L4	1266.88 - 1246.88	3/4" solid	2.00	1.77	113.3	21.600	0.4418	0.42	9.54	0.044
T2	1239.5 - 1236.67	L 3 x 3 x 1/4	7.00	6.75	87.1	21.600	1.0781	4.47	23.29	0.192
T26	790 - 770	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.69	128.9	21.000	0.7995	0.04	16.79	0.002
T27	770 - 750	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.69	128.9	21.000	0.7995	0.06	16.79	0.003
T28	750 - 730	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.69	128.9	21.000	0.7995	0.04	16.79	0.003
T33	650 - 630	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	21.000	0.7995	0.01	16.79	0.001

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	F <sub>a</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>a</sub> K	Ratio P P <sub>a</sub>
T40	510 - 490	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	21.000	0.7995	0.02	16.79	0.001
T42	470 - 450	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	21.000	0.7995	0.00	16.79	0.000
T43	450 - 430	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	21.000	0.7995	0.10	16.79	0.006
T44	430 - 410	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	21.000	0.7995	0.06	16.79	0.004
T47	370 - 350	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.65	128.1	21.000	0.7995	0.00	16.79	0.000
T48	350 - 330	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.65	128.1	21.000	0.7995	0.04	16.79	0.002
T51	290 - 270	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.65	128.1	21.000	0.7995	0.07	16.79	0.004
T54	230 - 210	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	21.000	0.7995	0.03	16.79	0.002
T55	210 - 190	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	21.000	0.7995	0.05	16.79	0.003
T56	190 - 170	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	21.000	0.7995	0.08	16.79	0.004
T57	170 - 150	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	21.000	0.7995	0.02	16.79	0.001
T60	110 - 90	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	21.000	0.7995	0.10	16.79	0.006
T61	90 - 70	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	21.000	0.7995	0.10	16.79	0.006
T62	70 - 50	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	21.000	0.7995	0.08	16.79	0.005
T63	50 - 30	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	21.000	0.7995	0.07	16.79	0.004

### Secondary Horizontal Design Data (Tension):

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	F <sub>a</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>a</sub> K	Ratio P P <sub>a</sub>
L1	1326.88 - 1306.88	5/8" solid	1.00	0.92	70.4	21.600	0.3068	0.00	6.63	0.000
L2	1306.88 - 1286.88	5/8" solid	1.00	0.92	70.4	21.600	0.3068	0.00	6.63	0.000
L3	1286.88 - 1266.88	5/8" solid	1.00	0.91	69.6	21.600	0.3068	0.00	6.63	0.000
L4	1266.88 - 1246.88	5/8" solid	1.00	0.89	68.0	21.600	0.3068	0.00	6.63	0.000

### Top Girt Design Data (Tension):

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	F <sub>a</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>a</sub> K	Ratio P P <sub>a</sub>
L1	1326.88 - 1306.88	3/4" solid	2.00	1.83	117.3	21.600	0.4418	0.02	9.54	0.002
L2	1306.88 - 1286.88	3/4" solid	2.00	1.83	117.3	21.600	0.4418	0.11	9.54	0.012

Section No.	Elevation ft	Size	L ft	L <sub>w</sub> ft	Kl/r	F <sub>a</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>a</sub> K	Ratio P P <sub>a</sub>
L3	1286.88 - 1266.88	3/4" solid	2.00	1.81	116.0	21.600	0.4418	0.16	9.54	0.017
L4	1266.88 - 1246.88	3/4" solid	2.00	1.77	113.3	21.600	0.4418	0.16	9.54	0.017
T27	770 - 750	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.69	128.9	21.000	0.7995	0.05	16.79	0.003
T28	750 - 730	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.69	128.9	21.000	0.7995	0.05	16.79	0.003
T41	490 - 470	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	21.000	0.7995	0.02	16.79	0.001
T42	470 - 450	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	21.000	0.7995	0.00	16.79	0.000
T43	450 - 430	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	21.000	0.7995	0.03	16.79	0.002
T44	430 - 410	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	21.000	0.7995	0.10	16.79	0.006
T48	350 - 330	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.65	128.1	21.000	0.7995	0.03	16.79	0.002
T49	330 - 310	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.65	128.1	21.000	0.7995	0.00	16.79	0.000
T55	210 - 190	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	21.000	0.7995	0.04	16.79	0.002
T56	190 - 170	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	21.000	0.7995	0.13	16.79	0.008
T57	170 - 150	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	21.000	0.7995	0.03	16.79	0.002
T60	110 - 90	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	21.000	0.7995	0.10	16.79	0.006
T61	90 - 70	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	21.000	0.7995	0.09	16.79	0.005
T62	70 - 50	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	21.000	0.7995	0.09	16.79	0.005
T63	50 - 30	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	21.000	0.7995	0.07	16.79	0.004
T64	30 - 10	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	21.000	0.7995	0.08	16.79	0.005
T65	10 - 0	L 5 x 5 x 1/2	7.00	6.63	51.5	21.600	3.5625	56.87	76.95	0.739

### Bottom Girt Design Data (Tension):

Section No.	Elevation ft	Size	L ft	L <sub>w</sub> ft	Kl/r	F <sub>a</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>a</sub> K	Ratio P P <sub>a</sub>
L1	1326.88 - 1306.88	3/4" solid	2.00	1.83	117.3	21.600	0.4418	0.06	9.54	0.006
L2	1306.88 - 1286.88	3/4" solid	2.00	1.83	117.3	21.600	0.4418	0.13	9.54	0.013
L3	1286.88 - 1266.88	3/4" solid	2.00	1.81	116.0	21.600	0.4418	0.16	9.54	0.017
L4	1266.88 - 1246.88	3/4" solid	2.00	1.77	113.3	21.600	0.4418	0.00	9.54	0.000

### Mid Girt Design Data (Tension):

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	F <sub>a</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>a</sub> K	Ratio P P <sub>a</sub>
L1	1326.88 - 1306.88	3/4" solid	2.00	1.83	117.3	21.600	0.4418	0.05	9.54	0.005
L2	1306.88 - 1286.88	3/4" solid	2.00	1.83	117.3	21.600	0.4418	0.07	9.54	0.007
L3	1286.88 - 1266.88	3/4" solid	2.00	1.81	116.0	21.600	0.4418	0.17	9.54	0.017
L4	1266.88 - 1246.88	3/4" solid	2.00	1.77	113.3	21.600	0.4418	0.40	9.54	0.041

### Guy Pull-Off Design Data (Tension):

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	F <sub>a</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>a</sub> K	Ratio P P <sub>a</sub>
T1	1246.88 - 1239.5	C8x18.75	7.00	6.75	135.1	21.600	5.5100	0.00	119.02	0.000
T9	1130 - 1110	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.75	130.1	21.600	0.7995	13.62	17.27	0.789
T17	970 - 950	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.71	129.3	21.600	0.7995	14.36	17.27	0.831
T24	830 - 810	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.69	128.9	21.600	0.7995	10.66	17.27	0.617
T31	690 - 670	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.65	128.1	21.600	0.7995	11.06	17.27	0.641
T38	550 - 530	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	21.600	0.7995	10.40	17.27	0.603
T45	410 - 390	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.67	128.5	21.600	0.7995	6.64	17.27	0.385
T52	270 - 250	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.65	128.1	21.600	0.7995	7.81	17.27	0.452
T59	130 - 110	Pipe 1.9" x 0.145" (1.5 STD)	7.00	6.63	127.7	21.600	0.7995	6.85	17.27	0.397

### Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Controlling Element	% Capacity	Pass Fail
L1	1326.88 - 1306.88	Leg	2" solid	2	10.2	Pass
		Diagonal	3/4" solid	15	45.8	Pass
		Horizontal	3/4" solid	17	1.4	Pass
		Secondary Horiz	5/8" solid	41	0.1	Pass
		Top Girt	3/4" solid	4	0.4	Pass
		Bottom Girt	3/4" solid	7	1.2	Pass
		Mid Girt	3/4" solid	11	0.9	Pass
		Leg	2" solid	64	39.3	Pass
L2	1306.88 - 1286.88	Diagonal	7/8" solid	77	50.4	Pass
		Horizontal	3/4" solid	79	2.6	Pass
		Secondary Horiz	5/8" solid	124	0.1	Pass
		Top Girt	3/4" solid	67	2.3	Pass
		Bottom Girt	3/4" solid	71	2.4	Pass
		Mid Girt	3/4" solid	74	1.2	Pass
		Leg	2 1/4" solid	127	65.5	Pass
		L3	1286.88 -	Leg	2 1/4" solid	127



Section No.	Elevation ft	Component Type	Size	Controlling Element	% Capacity	Pass Fail
L4	1266.88 - 1246.88	Diagonal	7/8" solid	139	73.4	Pass
		Horizontal	3/4" solid	141	5.3	Pass
		Secondary Horiz	5/8" solid	161	0.1	Pass
		Top Girt	3/4" solid	130	3.3	Pass
		Bottom Girt	3/4" solid	133	2.8	Pass
		Mid Girt	3/4" solid	135	3.3	Pass
		Leg	2 3/4" solid	189	71.3	Pass
T1	1246.88 - 1239.5	Diagonal	1" solid	201	63.2	Pass
		Horizontal	3/4" solid	203	8.8	Pass
		Secondary Horiz	5/8" solid	248	0.0	Pass
		Top Girt	3/4" solid	191	3.8	Pass
		Bottom Girt	3/4" solid	194	0.0	Pass
		Mid Girt	3/4" solid	196	7.5	Pass
		Leg	3" solid	251	43.6	Pass
T2	1239.5 - 1236.67	Diagonal	L 3 x 3 x 1/4	260	58.2	Pass
		Guy A@1246.88	1 1/4	2141	89.7	Pass
		Guy B@1246.88	1 1/4	2140	88.7	Pass
		Guy C@1246.88	1 1/4	2139	87.3	Pass
		Guy Pull-Off@1246.88	C8x18.75	258	0.6	Pass
T3	1236.67 - 1230	Leg	3" solid	263	26.9	Pass
		Diagonal	L 3 x 3 x 1/4	265	16.2	Pass
		Horizontal	L 3 x 3 x 1/4	270	19.2	Pass
T4	1230 - 1210	Leg	3" solid	275	61.2	Pass
		Diagonal	5/8" solid	280	89.8	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	276	29.0	Pass
		Leg	3" solid	285	75.5	Pass
		Diagonal	5/8" solid	310	80.3	Pass
T5	1210 - 1190	Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	306	50.2	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	288	57.9	Pass
		Leg	3" solid	315	82.6	Pass
		Diagonal	5/8" solid	340	41.7	Pass
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	328	32.6	Pass
T6	1190 - 1170	Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	318	33.0	Pass
		Leg	3" solid	345	82.7	Pass
		Diagonal	5/8" solid	353	56.5	Pass
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	358	33.6	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	349	32.5	Pass
T7	1170 - 1150	Leg	3" solid	375	76.7	Pass
		Diagonal	5/8" solid	383	83.1	Pass
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	388	53.8	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	379	42.2	Pass
		Leg	3" solid	405	67.4	Pass
T8	1150 - 1130	Diagonal	3/4" solid	413	74.3	Pass
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	418	69.7	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	409	59.5	Pass
		Leg	3 1/4" solid	435	103.1	Fail X
		Diagonal	3/4" solid	460	106.7	Fail X
T9	1130 - 1110	Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	456	101.5	Fail X
		Guy A@1130	1 1/4	2144	91.1	Pass
		Guy B@1130	1 1/4	2143	90.0	Pass
		Guy C@1130	1 1/4	2142	89.2	Pass
		Guy Pull-Off@1130	Pipe 1.9" x 0.145" (1.5 STD)	438	78.9	Pass
		Leg	3 1/4" solid	465	114.5	Fail X
		Diagonal	5/8" solid	491	65.8	Pass
T10	1110 - 1090	Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	487	42.0	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	468	65.3	Pass
		Leg	3 1/4" solid	495	119.3	Fail X
T11	1090 - 1070	Diagonal	5/8" solid	521	36.2	Pass

Section No.	Elevation ft	Component Type	Size	Controlling Element	% Capacity	Pass Fail
T12	1070 - 1050	Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	508	25.7	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	499	28.3	Pass
		Leg	3 1/4" solid	525	119.8	Fail X
T13	1050 - 1030	Diagonal	5/8" solid	532	55.2	Pass
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	537	33.2	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	529	25.8	Pass
T14	1030 - 1010	Leg	3 1/4" solid	555	117.7	Fail X
		Diagonal	5/8" solid	562	88.5	Pass
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	567	55.0	Pass
T15	1010 - 990	Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	558	39.3	Pass
		Leg	3 1/4" solid	585	109.0	Fail X
		Diagonal	5/8" solid	595	116.4	Fail X
T16	990 - 970	Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	599	75.0	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	588	61.6	Pass
		Leg	3 1/4" solid	615	93.7	Pass
T17	970 - 950	Diagonal	5/8" solid	625	144.7	Fail X
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	629	95.1	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	620	82.0	Pass
T18	950 - 930	Leg	3 1/2" solid	645	94.3	Pass
		Diagonal	3/4" solid	655	113.8	Fail X
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	659	109.0	Fail X
T19	930 - 910	Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	650	101.3	Fail X
		Leg	3 1/2" solid	675	96.6	Pass
		Diagonal	3/4" solid	699	78.6	Pass
T20	910 - 890	Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	696	75.3	Pass
		Guy A@970	1 1/4	2147	87.9	Pass
		Guy B@970	1 1/4	2146	87.7	Pass
T21	890 - 870	Guy C@970	1 1/4	2145	83.3	Pass
		Guy Pull-Off@970	Pipe 1.9" x 0.145" (1.5 STD)	678	83.1	Pass
		Leg	3 1/2" solid	705	90.8	Pass
T22	870 - 850	Diagonal	5/8" solid	729	93.9	Pass
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	726	60.2	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	708	66.4	Pass
T23	850 - 830	Leg	3 1/2" solid	735	95.8	Pass
		Diagonal	5/8" solid	759	64.8	Pass
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	756	41.4	Pass
T24	830 - 810	Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	738	47.5	Pass
		Leg	3 1/2" solid	765	96.7	Pass
		Diagonal	5/8" solid	789	36.8	Pass
T25	810 - 790	Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	786	22.5	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	768	28.9	Pass
		Leg	3 1/2" solid	795	95.9	Pass
T26	790 - 770	Diagonal	5/8" solid	806	53.1	Pass
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	809	31.8	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	799	20.1	Pass
T27	770 - 750	Leg	3 1/2" solid	825	90.8	Pass
		Diagonal	5/8" solid	836	84.8	Pass
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	839	54.0	Pass
T28	750 - 730	Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	830	39.4	Pass
		Leg	3 3/4" solid	856	76.2	Pass
		Diagonal	3/4" solid	866	76.7	Pass
T29	730 - 710	Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	869	71.0	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	860	60.6	Pass
		Leg	3 3/4" solid	886	90.2	Pass
T30	710 - 690	Diagonal	3/4" solid	914	69.5	Pass
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	908	64.0	Pass
		Guy A@830	1 1/8	2150	87.7	Pass
T31	690 - 670	Guy B@830	1 1/8	2149	87.5	Pass
		Guy C@830	1 1/8	2148	71.9	Pass
		Guy Pull-Off@830	Pipe 1.9" x 0.145" (1.5 STD)	889	61.7	Pass
T32	670 - 650	Leg	3 3/4" solid	916	98.4	Pass
		Diagonal	5/8" solid	944	78.6	Pass

Section No.	Elevation ft	Component Type	Size	Controlling Element	% Capacity	Pass Fail
T26	790 - 770	Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	938	48.9	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	920	54.7	Pass
		Leg	3 3/4" solid	946	102.4	Fail X
		Diagonal	5/8" solid	951	76.0	Pass
T27	770 - 750	Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	957	47.1	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	950	37.0	Pass
		Leg	3 3/4" solid	976	103.1	Fail X
		Diagonal	5/8" solid	981	102.0	Fail X
T28	750 - 730	Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	987	65.3	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	978	53.1	Pass
		Leg	3 3/4" solid	1006	105.2	Fail X
		Diagonal	5/8" solid	1011	126.4	Fail X
T29	730 - 710	Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1017	82.1	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	1008	71.2	Pass
		Leg	3 3/4" solid	1036	115.0	Fail X
		Diagonal	5/8" solid	1041	143.5	Fail X
T30	710 - 690	Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1047	95.9	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	1038	87.2	Pass
		Leg	4 1/4" solid	1066	91.4	Pass
		Diagonal	3/4" solid	1080	108.3	Fail X
T31	690 - 670	Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1086	103.3	Fail X
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	1068	100.1	Fail X
		Leg	4 1/4" solid	1096	94.7	Pass
		Diagonal	3/4" solid	1111	83.4	Pass
T32	670 - 650	Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1107	80.0	Pass
		Guy A@690	1 1/16	2153	86.0	Pass
		Guy B@690	1 1/16	2152	87.4	Pass
		Guy C@690	1 9/16	2151	49.9	Pass
		Guy Pull-Off@690	Pipe 1.9" x 0.145" (1.5 STD)	1100	64.1	Pass
		Leg	4" solid	1126	104.7	Fail X
		Diagonal	5/8" solid	1150	112.4	Fail X
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1146	74.3	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	1128	76.7	Pass
		Leg	4" solid	1156	98.5	Pass
T33	650 - 630	Diagonal	5/8" solid	1180	99.3	Pass
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1176	63.3	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	1158	67.2	Pass
		Leg	4" solid	1186	94.5	Pass
T34	630 - 610	Diagonal	5/8" solid	1210	80.3	Pass
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1206	50.2	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	1188	54.7	Pass
		Leg	4" solid	1217	94.0	Pass
T35	610 - 590	Diagonal	5/8" solid	1222	97.0	Pass
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1227	60.4	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	1218	48.1	Pass
		Leg	4" solid	1247	98.6	Pass
T36	590 - 570	Diagonal	5/8" solid	1252	120.5	Fail X
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1257	78.0	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	1248	66.4	Pass
		Leg	4" solid	1275	106.7	Fail X
T37	570 - 550	Diagonal	3/4" solid	1291	93.8	Pass
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1296	88.3	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	1278	82.9	Pass
		Leg	4" solid	1305	109.0	Fail X
T38	550 - 530	Diagonal	3/4" solid	1330	80.2	Pass
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1326	75.2	Pass
		Guy A@550	1 1/16	2156	73.6	Pass
		Guy B@550	1 1/16	2155	76.7	Pass
		Guy C@550	1 1/16	2154	57.4	Pass
		Guy Pull-Off@550	Pipe 1.9" x 0.145" (1.5 STD)	1309	60.3	Pass

Section No.	Elevation ft	Component Type	Size	Controlling Element	% Capacity	Pass Fail
T39	530 - 510	Leg	4" solid	1335	104.7	Fail X
		Diagonal	5/8" solid	1360	98.6	Pass
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1356	62.8	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	1338	68.2	Pass
T40	510 - 490	Leg	4" solid	1365	110.1	Fail X
		Diagonal	5/8" solid	1390	72.1	Pass
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1386	45.6	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	1368	51.5	Pass
T41	490 - 470	Leg	4" solid	1395	111.9	Fail X
		Diagonal	5/8" solid	1420	44.1	Pass
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1416	26.9	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	1398	33.2	Pass
T42	470 - 450	Leg	4" solid	1425	112.0	Fail X
		Diagonal	5/8" solid	1435	36.7	Pass
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1439	20.7	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	1430	14.5	Pass
T43	450 - 430	Leg	4" solid	1455	110.2	Fail X
		Diagonal	5/8" solid	1466	60.4	Pass
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1469	36.7	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	1460	25.7	Pass
T44	430 - 410	Leg	4" solid	1485	111.6	Fail X
		Diagonal	3/4" solid	1496	53.5	Pass
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1499	50.1	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	1490	41.9	Pass
T45	410 - 390	Leg	4 1/4" solid	1515	97.4	Pass
		Diagonal	3/4" solid	1542	44.3	Pass
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1537	41.1	Pass
		Guy A@410	1	2159	64.5	Pass
		Guy B@410	1	2158	67.2	Pass
		Guy C@410	1	2157	64.7	Pass
		Guy Pull-Off@410	Pipe 1.9" x 0.145" (1.5 STD)	1520	38.5	Pass
T46	390 - 370	Leg	4 1/4" solid	1545	97.5	Pass
		Diagonal	5/8" solid	1574	46.3	Pass
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1568	28.2	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	1550	33.2	Pass
T47	370 - 350	Leg	4 1/4" solid	1575	97.8	Pass
		Diagonal	5/8" solid	1581	22.3	Pass
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1597	13.0	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	1580	17.2	Pass
T48	350 - 330	Leg	4 1/4" solid	1605	97.0	Pass
		Diagonal	5/8" solid	1611	53.6	Pass
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1617	31.9	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	1608	17.7	Pass
T49	330 - 310	Leg	4 1/4" solid	1635	95.6	Pass
		Diagonal	5/8" solid	1641	83.5	Pass
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1647	51.8	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	1638	38.7	Pass
T50	310 - 290	Leg	4 1/4" solid	1665	97.8	Pass
		Diagonal	5/8" solid	1671	106.8	Fail X
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1677	68.9	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	1668	58.0	Pass
T51	290 - 270	Leg	4 1/4" solid	1695	102.5	Fail X
		Diagonal	3/4" solid	1710	83.3	Pass
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1716	78.1	Pass
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	1698	73.0	Pass
T52	270 - 250	Leg	4 1/2" solid	1725	89.1	Pass
		Diagonal	3/4" solid	1745	61.2	Pass
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1739	56.8	Pass
		Guy A@270	1	2162	55.6	Pass
		Guy B@270	1	2161	60.1	Pass
		Guy C@270	1	2160	58.9	Pass
		Guy Pull-Off@270	Pipe 1.9" x 0.145" (1.5 STD)	1728	45.2	Pass

Section No.	Elevation ft	Component Type	Size	Controlling Element	% Capacity	Pass Fail		
T53	250 - 230	Leg	4 1/2" solid	1755	85.4	Pass		
		Diagonal	5/8" solid	1784	75.5	Pass		
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1778	48.1	Pass		
T54	230 - 210	Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	1760	52.1	Pass		
		Leg	4 1/2" solid	1785	83.2	Pass		
		Diagonal	5/8" solid	1814	55.5	Pass		
T55	210 - 190	Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1808	33.7	Pass		
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	1790	38.9	Pass		
		Leg	4 1/2" solid	1816	81.8	Pass		
T56	190 - 170	Diagonal	5/8" solid	1844	31.2	Pass		
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1838	17.8	Pass		
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	1820	23.1	Pass		
T57	170 - 150	Leg	4 1/2" solid	1847	82.0	Pass		
		Diagonal	5/8" solid	1856	37.4	Pass		
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1859	22.9	Pass		
T58	150 - 130	Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	1850	11.8	Pass		
		Leg	4 1/2" solid	1876	83.5	Pass		
		Diagonal	5/8" solid	1886	56.8	Pass		
T59	130 - 110	Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1889	36.2	Pass		
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	1880	27.8	Pass		
		Leg	4 1/2" solid	1907	86.8	Pass		
T60	110 - 90	Diagonal	3/4" solid	1922	48.4	Pass		
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1927	44.4	Pass		
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	1910	40.3	Pass		
T61	90 - 70	Leg	4 1/2" solid	1936	87.7	Pass		
		Diagonal	3/4" solid	1951	46.9	Pass		
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1947	43.3	Pass		
T62	70 - 50	Guy A@130	7/8	2165	48.3	Pass		
		Guy B@130	7/8	2164	52.0	Pass		
		Guy C@130	7/8	2163	48.1	Pass		
T63	50 - 30	Guy Pull-Off@130	Pipe 1.9" x 0.145" (1.5 STD)	1938	39.7	Pass		
		Leg	4 1/2" solid	1966	86.8	Pass		
		Diagonal	5/8" solid	1990	55.9	Pass		
T64	30 - 10	Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	1986	35.3	Pass		
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	1968	38.8	Pass		
		Leg	4 1/2" solid	1996	89.3	Pass		
T65	10 - 0	Diagonal	5/8" solid	2020	37.8	Pass		
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	2016	22.5	Pass		
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	1998	26.9	Pass		
T66	70 - 50	Leg	4 1/2" solid	2026	90.2	Pass		
		Diagonal	5/8" solid	2050	17.3	Pass		
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	2048	9.8	Pass		
T67	50 - 30	Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	2028	13.5	Pass		
		Leg	4 1/2" solid	2056	90.3	Pass		
		Diagonal	5/8" solid	2063	22.4	Pass		
T68	30 - 10	Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	2068	13.5	Pass		
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	2060	9.6	Pass		
		Leg	4 1/2" solid	2086	89.7	Pass		
T69	10 - 0	Diagonal	5/8" solid	2093	33.1	Pass		
		Horizontal	Pipe 1.9" x 0.145" (1.5 STD)	2107	20.7	Pass		
		Top Girt	Pipe 1.9" x 0.145" (1.5 STD)	2089	16.6	Pass		
T70	10 - 0	Leg	4 1/2" solid	2116	83.9	Pass		
		Diagonal	L 4 x 4 x 3/8	2134	36.4	Pass		
		Horizontal	L 5 x 5 x 7/16	2132	24.2	Pass		
T71	10 - 0	Top Girt	L 5 x 5 x 1/2	2119	73.9	Pass		
						Summary		
						Latticed Pole	71.3	Pass
T72	10 - 0					Leg		
						Latticed Pole	73.4	Pass
						Diagonal		
T73	10 - 0					Latticed Pole	8.8	Pass
						Horizontal		
						Latticed Pole	0.1	Pass
T74	10 - 0					Secondary		
						Horiz		

<i>Section No.</i>	<i>Elevation ft</i>	<i>Component Type</i>	<i>Size</i>	<i>Controlling Element</i>	<i>% Capacity</i>	<i>Pass Fail</i>
				Latticed Pole	3.8	Pass
				Top Girt		
				Latticed Pole	2.8	Pass
				Bottom Girt		
				Latticed Pole	7.5	Pass
				Mid Girt		
				Leg	119.8	Fail X
				Diagonal	144.7	Fail X
				Horizontal	109.0	Fail X
				Top Girt	101.3	Fail X
				Guy A	91.1	Pass
				Guy B	90.0	Pass
				Guy C	89.2	Pass
				Guy Pull-Off	83.1	Pass
				RATING =	144.7	Fail X

Program Version 2.0.0.13 - 5/11/2002 File:G:/TOWER/GUYED/eri\_data/A02-T60.eri