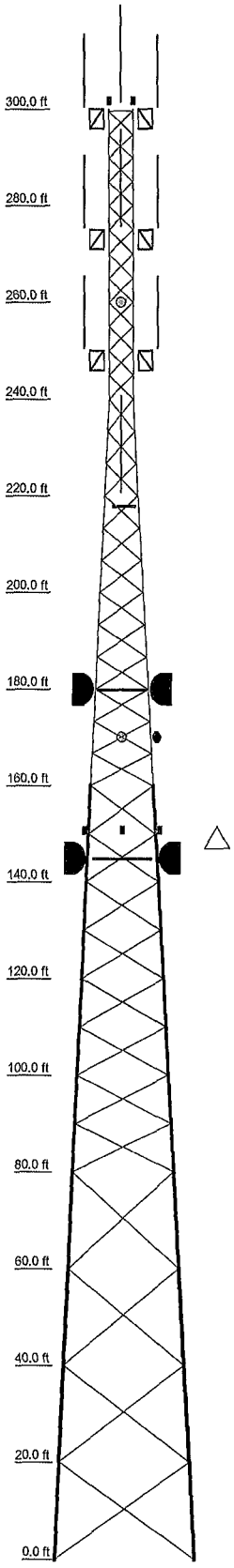


Section		T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12	T13	T14	T15
Legs		A		B	C	D	E	F	G	H	I	J	K	L		
Leg Grade		A572-50												A572-58		
Diagonals		L2x2x1/8			L2x2x3/16		L3x3x3/16	M	L3x3x3/16	L3x3x1/4	L3x3x5/16	N	2L3x3x3/16		2L3x3x1/4	O
Diagonal Grade		A572-50														
Top Girts		L2x2x3/16							N.A.							
Face Width (ft)	29	5				7	9	11	13	15	17	19	21	23	25	27
# Panels @ (ft)	42.6	4 @ 4.89583		8 @ 5		12 @ 6.66667					8 @ 10			4 @ 20		
Weight (K)		0.6	0.6	1.0	1.3	1.3	1.9	1.8	2.6	3.4	3.8	3.9	4.3	4.9	5.4	5.8

SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	0049) 2.50' S - 20' - C - 0.75' conn - (Pirod 226160)	I	#12ZG-58 - 1 75' - 1.00' conn. (Pirod 195217)
B	0131) 3.00 to 5' TS - 20' - C - 0.75' conn - (Pirod 285584)	J	#12ZG-58 -2.00' - 0.875' conn. TR3-(Pirod 195637)
C	0375) 5.00' to 4 S - 20' - C 0.75" conn - (Pirod 226200)	K	#12ZG-58 -2.25' - 0.875' conn. (Pirod 195960)
D	0367) 5.00' S 20' - C - 0.75' conn - (Pirod 226192)	L	#12ZG-58 BASE - 2.25' - 0.875' conn.(Pirod 281172)
E	0411) 6.00' S - 20' C - 0.75' conn - (Pirod 226206)	M	L2 1/2x2 1/2x3/16
F	0419) 6.00' to #12 S - 20' - C - 0.75' conn - (Pirod	N	L3 1/2x3 1/2x1/4
		O	2L3 1/2x3 1/2x1/4

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A572-58	58 ksi	75 ksi

TOWER DESIGN NOTES

1 Tower is located in Columbia County, Florida
2 Tower designed for Exposure C to the TIA-222-H Standard
3. Tower designed for a 127 mph basic wind in accordance with the TIA-222-H Standard
4 Deflections are based upon a 60 mph wind
5. Tower Risk Category III
6 Topographic Category 1 with Crest Height of 0 00 ft
7 Design includes one outside climbing ladder
8. Design includes one 9-line waveguide ladder Feedlines are stacked in rows of two
9 Designed not to exceed structural capacity of 95%
10 TOWER RATING 93 9%

2/17/2026

COLUMBIA COUNTY BUILDING DEPARTMENT
Received for FILE COPY
Code Compliance
PLANS EXAMINER

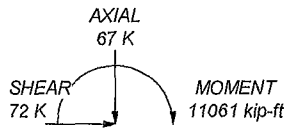
CHRISTOPHER W. BLAUMER
LICENSE
No. 69633
STATE OF FLORIDA
PROFESSIONAL ENGINEER

EXP. 2/28/2027

ALL REACTIONS ARE FACTORED

MAX. CORNER REACTIONS AT BASE.
DOWN 463 K
SHEAR 46 K

UPLIFT -397 K
SHEAR 41 K



TORQUE 139 kip-ft
REACTIONS - 127 mph WIND

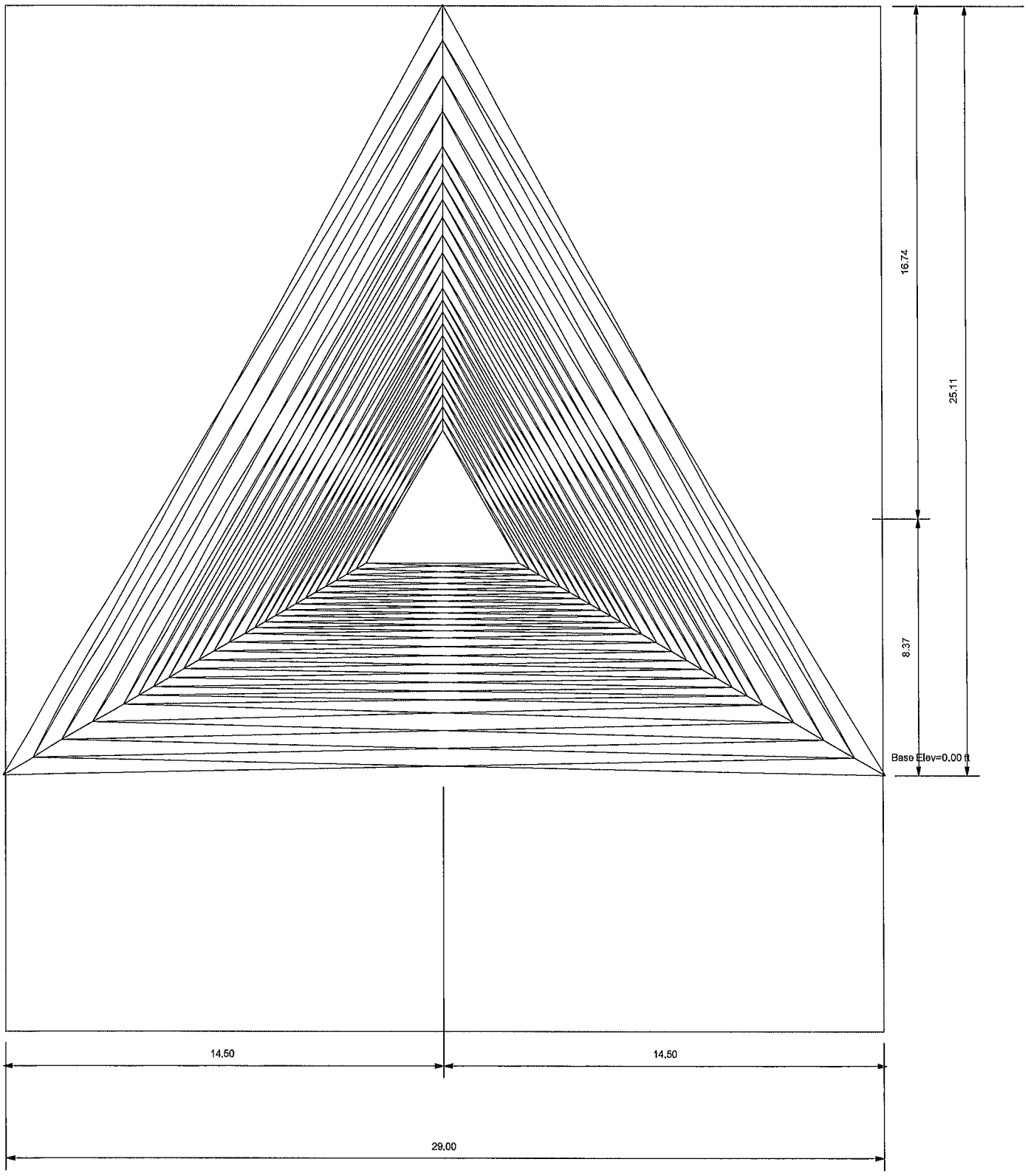
This item has been electronically signed and sealed by Christopher W. Blaumer on the date adjacent to the seal using a SHA authentication code.

Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

valmont STRUCTURES
Valmont Industries Inc. - Specialty Structures Group
1545 Pidco Dr.
Plymouth, IN
Phone (574) 936-4221
FAX (574) 936-6458

Job: 617129			
Project: H-29' x300' - Suwannee Valley Tower, FL.			
Client: Florida Tel-Con, Inc	Drawn by: ES		App'd
Code: TIA-222-H	Date: 02/13/26		Scale: NTS
Path: X:\Documents\617\617129\Florida Tel-Con, Inc - Columbia County Florida US HWY 41 - 250' SST\29 Tower Crit-tnt\617129.eri			Dwg No. E-1

Plot Plan



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Job: *617129*			
Project: *H-29' x300' - Suwannee Valley Tower, FL.*			
Client: Florida Tel-Con, Inc	Drawn by: ES	App'd	
Code: TIA-222-H	Date: 02/13/26	Scale: NTS	
Path: X:\Documents\617xx\617129\Florida Tel-Con, Inc - Columbia County Florida US HWY 41 - 250' SST\02 Tower Calcs\617129.eri		Dwg No. E-2	

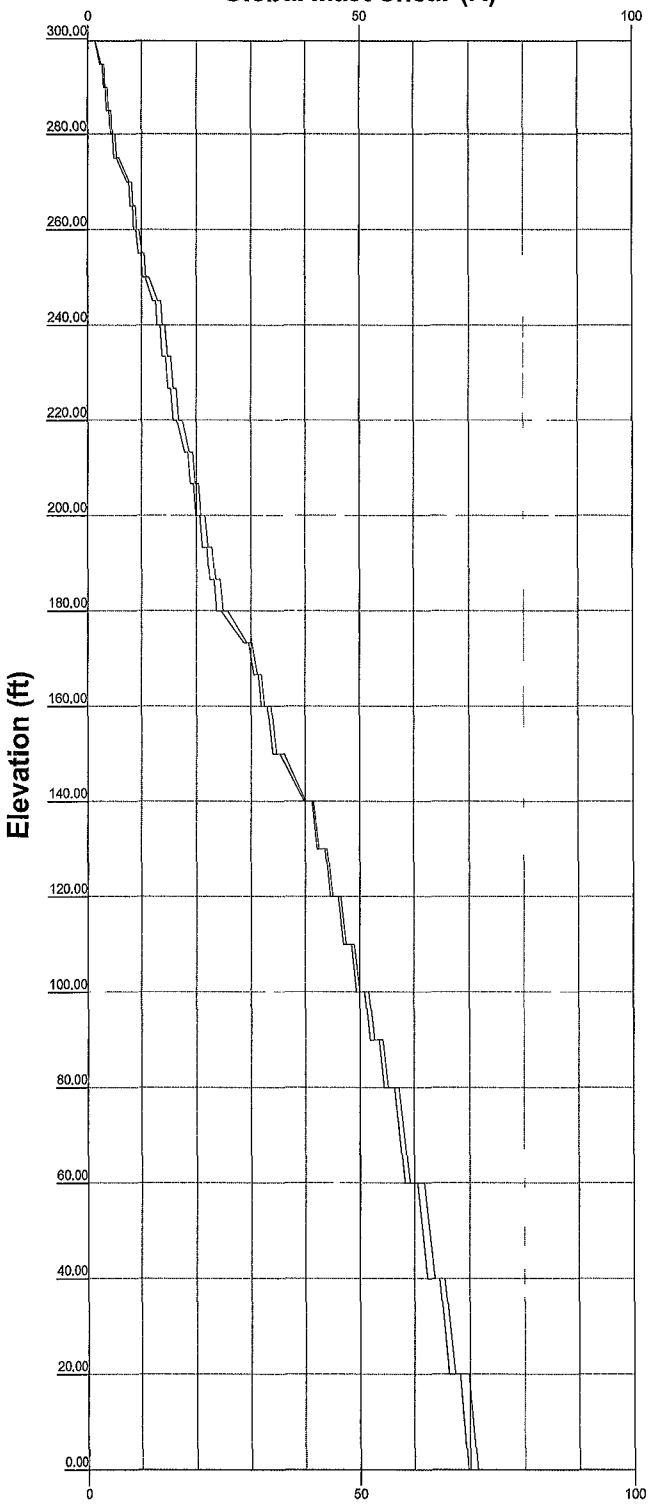
TIA-222-H - 127 mph Exposure C

Vx Vz

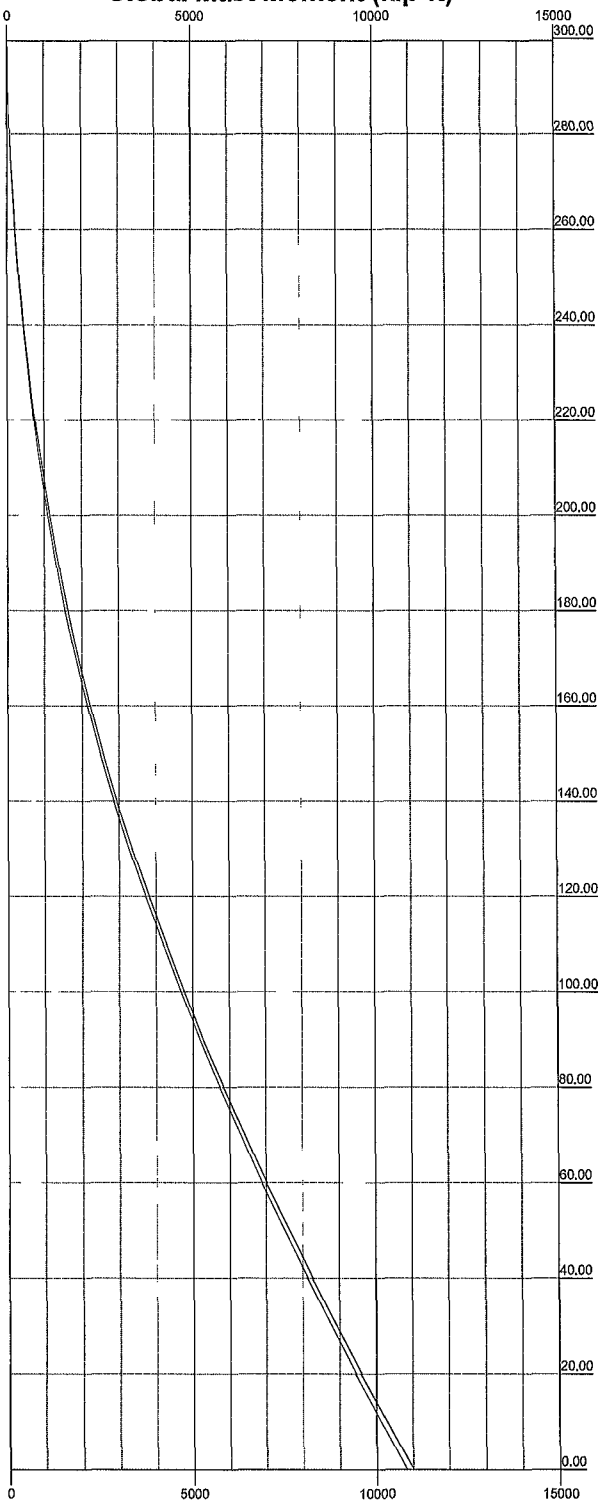
Maximum Values

Mx Mz

Global Mast Shear (K)



Global Mast Moment (kip-ft)



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Phone (574) 936-4221
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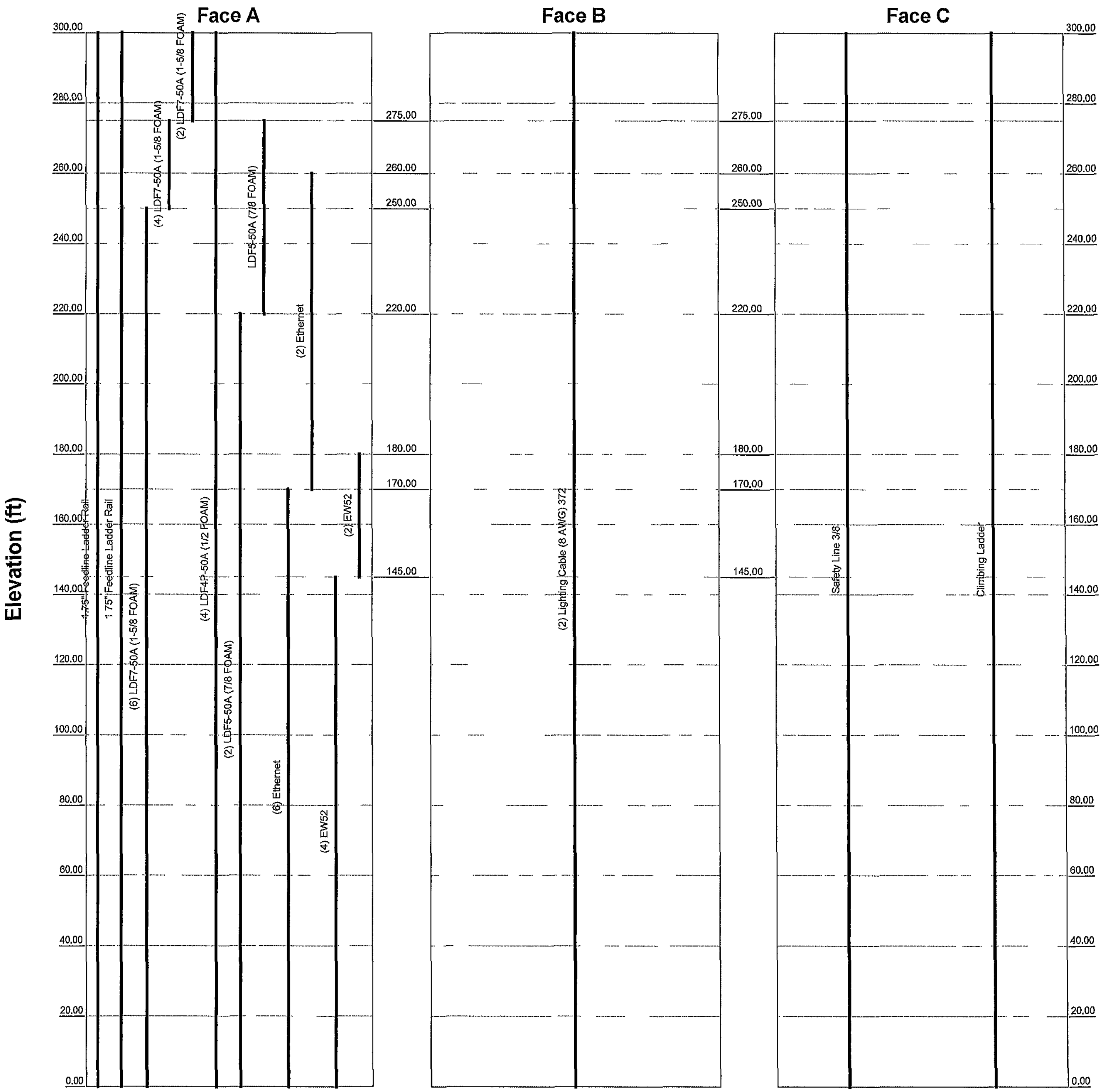
Job: 617129			
Project: H-29'x300' - Suwannee Valley Tower, FL.			
Client: Florida Tel-Con, Inc	Drawn by: ES	App'd:	
Code: TIA-222-H	Date: 02/13/26	Scale: NTS	
Path: X:\Documents\617129\Florida Tel-Con, Inc - Columbia County Florida US HWY 41 - 250' B3T\02 Tower Calcs\617129.eri		Dwg No. E-4	

Feed Line Distribution Chart

0' - 300'

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



valmont STRUCTURES Valmont Industries Inc. Specialty Structures Group	1545 Pidco Dr. Plymouth, IN Phone (574) 936-4221 FAX (574) 936-6458	Job: **617129**	
		Project: ***H-29' x300' - Suwannee Valley Tower, FL.***	
		Client: Florida Tel-Con, Inc	Drawn by: ES · App'd
		Code: TIA-222-H	Date 02/13/26 · Scale: NTS
		Path:	Dwg No. E-7

VALMONT	Job	Page
	617129	1 of 89
1545 Pidco Dr	Project	Date
	H-29' x300' - Suwannee Valley Tower, FL.	15 32 46 02/13/26
Plymouth, IN Phone (574) 936-4221 FAX (574) 936-6458	Client	Designed by
	Florida Tel-Con, Inc	ES

Tower Input Data

The main tower is a 3x free standing tower with an overall height of 300.00 ft above the ground line.
The base of the tower is set at an elevation of 0 00 ft above the ground line.
The face width of the tower is 5.00 ft at the top and 29.00 ft at the base.
This tower is designed using the TIA-222-H standard
The following design criteria apply:

Tower is located in Columbia County, Florida.
Tower base elevation above sea level. 139.50 ft
Basic wind speed of 127 mph.
Risk Category III
Exposure Category C.
Simplified Topographic Factor Procedure for wind speed-up calculations is used.
Topographic Category 1.
Crest Height: 0.00 ft.
Deflections calculated using a wind speed of 60 mph.
Design includes one outside climbing ladder.
Design includes one 9-line waveguide ladder. Feedlines are stacked in rows of two..
Designed not to exceed structural capacity of 95%
Non-linear (P-delta) analysis was used.
Pressures are calculated at each section.
Stress ratio used in tower member design is 1
Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered

Options

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

Tower Section	Tower Elevation ft	Diagonal Spacing ft	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset in	Bottom Girt Offset in
T1	300 00-280 00	4 90	X Brace	No	No	5 0000	0 0000
T2	280 00-260 00	5 00	X Brace	No	No	0 0000	0 0000
T3	260 00-240 00	5 00	X Brace	No	No	0 0000	0 0000
T4	240 00-220 00	6 67	X Brace	No	No	0 0000	0 0000
T5	220 00-200 00	6 67	X Brace	No	No	0 0000	0 0000
T6	200 00-180 00	6 67	X Brace	No	No	0 0000	0 0000
T7	180 00-160 00	6 67	X Brace	No	No	0 0000	0 0000
T8	160 00-140 00	10 00	X Brace	No	No	0 0000	0 0000
T9	140 00-120 00	10 00	X Brace	No	No	0 0000	0 0000
T10	120 00-100 00	10 00	X Brace	No	No	0 0000	0 0000
T11	100 00-80 00	10 00	X Brace	No	No	0 0000	0 0000
T12	80 00-60 00	20 00	X Brace	No	No	0 0000	0 0000
T13	60 00-40 00	20 00	X Brace	No	No	0 0000	0 0000
T14	40 00-20 00	20 00	X Brace	No	No	0 0000	0 0000
T15	20 00-0 00	20 00	X Brace	No	No	0 0000	0 0000

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T1 300 00-280 00	Pipe	0049) 2 50" S - 20' - C - 0 75" conn - (Pirod 226160)	A572-50 (50 ksi)	Equal Angle	L2x2x1/8	A572-50 (50 ksi)
T2 280 00-260 00	Pipe	0049) 2 50" S - 20' - C - 0 75" conn - (Pirod 226160)	A572-50 (50 ksi)	Equal Angle	L2x2x1/8	A572-50 (50 ksi)
T3 260 00-240 00	Pipe	0131) 3 00 to 5" TS - 20' - C - 0 75" conn - (Pirod 295584)	A572-50 (50 ksi)	Equal Angle	L2x2x3/16	A572-50 (50 ksi)
T4 240 00-220 00	Pipe	0375) 5 00" to 4" S - 20' - C - 0 75" conn - (Pirod 226200)	A572-50 (50 ksi)	Equal Angle	L2x2x3/16	A572-50 (50 ksi)
T5 220 00-200 00	Pipe	0367) 5 00" S - 20' - C - 0 75" conn - (Pirod 226192)	A572-50 (50 ksi)	Equal Angle	L2x2x3/16	A572-50 (50 ksi)
T6 200 00-180 00	Pipe	0411) 6 00" S - 20' - C - 0 75" conn - (Pirod 226206)	A572-50 (50 ksi)	Equal Angle	L3x3x3/16	A572-50 (50 ksi)
T7 180 00-160 00	Pipe	0419) 6 00" to #12 S - 20' - C - 0 75" conn - (Pirod 229377)	A572-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A572-50 (50 ksi)
T8 160 00-140 00	Truss Leg	#12ZG-58 - 1 50" - 1 00" conn. (Pirod 194651)	A572-58 (58 ksi)	Equal Angle	L3x3x3/16	A572-50 (50 ksi)
T9 140 00-120 00	Truss Leg	#12ZG-58 - 1 75" - 1 00" conn -TR1-(Pirod 195213)	A572-58 (58 ksi)	Equal Angle	L3x3x1/4	A572-50 (50 ksi)
T10 120 00-100 00	Truss Leg	#12ZG-58 - 1 75" - 1 00" conn. (Pirod 195217)	A572-58 (58 ksi)	Equal Angle	L3x3x5/16	A572-50 (50 ksi)
T11 100 00-80 00	Truss Leg	#12ZG-58 - 1 75" - 1 00" conn. (Pirod 195217)	A572-58 (58 ksi)	Equal Angle	L3 1/2x3 1/2x1/4	A572-50 (50 ksi)
T12 80 00-60 00	Truss Leg	#12ZG-58 -2 00" - 0 875" conn.-TR3-(Pirod 195637)	A572-58 (58 ksi)	Double Equal Angle	2L3x3x3/16	A572-50 (50 ksi)
T13 60 00-40 00	Truss Leg	#12ZG-58 -2 25" - 0 875" conn. (Pirod 195960)	A572-58 (58 ksi)	Double Equal Angle	2L3x3x3/16	A572-50 (50 ksi)
T14 40 00-20 00	Truss Leg	#12ZG-58 -2 25" - 0 875" conn. (Pirod 195960)	A572-58 (58 ksi)	Double Equal Angle	2L3x3x1/4	A572-50 (50 ksi)
T15 20 00-0 00	Truss Leg	#12ZG-58 BASE - 2 25" - 0 875" conn (Pirod 281172)	A572-58 (58 ksi)	Double Equal Angle	2L3 1/2x3 1/2x1/4	A572-50 (50 ksi)

Tower Elevation ft	Calc K Single Angles	Calc K Solid Rounds	K Factors[1] Legs	X Brace Diags X	X Brace Diags Y	Single Diags X	Single Diags Y	Girts X	Girts Y	Horiz X	Horiz Y	Sec. Horiz X	Sec. Horiz Y	Inner Brace X	Inner Brace Y
T1	Yes	Yes	1	1	1	1	1	1	1	1	1	1	1	1	1
300 00-280 00				1	1	1	1	1	1	1	1	1	1	1	1
T2	Yes	Yes	1	1	1	1	1	1	1	1	1	1	1	1	1
280 00-260 00				1	1	1	1	1	1	1	1	1	1	1	1
T3	Yes	Yes	1	1	1	1	1	1	1	1	1	1	1	1	1
260 00-240 00				1	1	1	1	1	1	1	1	1	1	1	1
T4	Yes	Yes	1	1	1	1	1	1	1	1	1	1	1	1	1
240 00-220 00				1	1	1	1	1	1	1	1	1	1	1	1
T5	Yes	Yes	1	1	1	1	1	1	1	1	1	1	1	1	1
220 00-200 00				1	1	1	1	1	1	1	1	1	1	1	1
T6	Yes	Yes	1	1	1	1	1	1	1	1	1	1	1	1	1
200 00-180 00				1	1	1	1	1	1	1	1	1	1	1	1
T7	Yes	Yes	1	1	1	1	1	1	1	1	1	1	1	1	1
180 00-160 00				1	1	1	1	1	1	1	1	1	1	1	1
T8	Yes	Yes	1	1	1	1	1	1	1	1	1	1	1	1	1
160 00-140 00				1	1	1	1	1	1	1	1	1	1	1	1
T9	Yes	Yes	1	1	1	1	1	1	1	1	1	1	1	1	1
140 00-120 00				1	1	1	1	1	1	1	1	1	1	1	1
T10	Yes	Yes	1	1	1	1	1	1	1	1	1	1	1	1	1
120 00-100 00				1	1	1	1	1	1	1	1	1	1	1	1
T11	Yes	Yes	1	1	1	1	1	1	1	1	1	1	1	1	1
100 00-80 00				1	1	1	1	1	1	1	1	1	1	1	1
T12	Yes	Yes	1	1	1	1	1	1	1	1	1	1	1	1	1
80 00-60 00				1	1	1	1	1	1	1	1	1	1	1	1
T13	Yes	Yes	1	1	1	1	1	1	1	1	1	1	1	1	1
60 00-40 00				1	1	1	1	1	1	1	1	1	1	1	1
T14	Yes	Yes	1	1	1	1	1	1	1	1	1	1	1	1	1
40 00-20 00				1	1	1	1	1	1	1	1	1	1	1	1
T15	Yes	Yes	1	1	1	1	1	1	1	1	1	1	1	1	1
20 00-0 00				1	1	1	1	1	1	1	1	1	1	1	1

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

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Truss-Leg K Factors: Truss-Legs Used As Leg Members — Leg Panels	X Brace Diagonals	Z Brace Diagonals	Truss-Legs Used As Inner Members — Leg Panels	X Brace Diagonals	Z Brace Diagonals
T8	1	0 5	0 7	1	0 5	0 7
160 00-140 00						
T9	1	0 5	0 7	1	0 5	0 7
140 00-120 00						
T10	1	0 5	0 7	1	0 5	0 7
120 00-100 00						
T11	1	0 5	0 7	1	0 5	0 7
100 00-80 00						
T12	1	0 5	0 7	1	0 5	0 7
80 00-60 00						
T13	1	0 5	0 7	1	0 5	0 7
60 00-40 00						

VALMONT

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Plymouth IN
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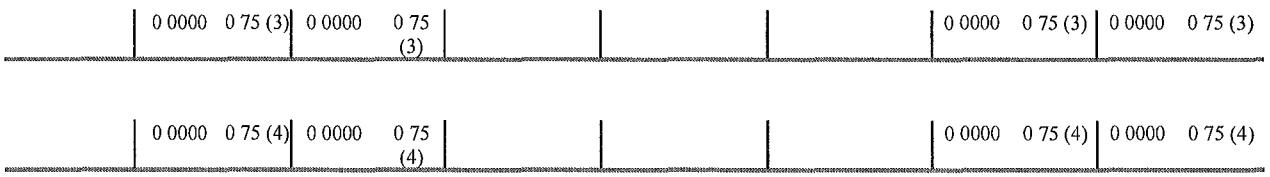
Job	Page
617129	7 of 89
Project	**Date**
H-29' x300' - Suwannee Valley Tower, FL.	15 32 46 02/13/26
Client	**Designed by**
Florida Tel-Con, Inc	ES

Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
	0 0000	0 75 (4)	0 0000	0 75 (4)							0 0000	0 75 (4)	0 0000	0 75 (4)
T2 280 00-260 00	0 0000	0 75 (1)	0 0000	0 75 (1)	0 0000	0 75	0 0000	0 75	0 0000	0 75	0 0000	0 75 (1)	0 0000	0 75 (1)
	0 0000	0 75 (2)	0 0000	0 75 (2)							0 0000	0 75 (2)	0 0000	0 75 (2)
	0 0000	0 75 (3)	0 0000	0 75 (3)							0 0000	0 75 (3)	0 0000	0 75 (3)
	0 0000	0 75 (4)	0 0000	0 75 (4)							0 0000	0 75 (4)	0 0000	0 75 (4)
T3 260 00-240 00	0 0000	0 75 (1)	0 0000	0 75 (1)	0 0000	0 75	0 0000	0 75	0 0000	0 75	0 0000	0 75 (1)	0 0000	0 75 (1)
	0 0000	0 75 (2)	0 0000	0 75 (2)							0 0000	0 75 (2)	0 0000	0 75 (2)
	0 0000	0 75 (3)	0 0000	0 75 (3)							0 0000	0 75 (3)	0 0000	0 75 (3)
	0 0000	0 75 (4)	0 0000	0 75 (4)							0 0000	0 75 (4)	0 0000	0 75 (4)
T4 240 00-220 00	0 0000	0 75 (1)	0 0000	0 75 (1)	0 0000	0 75	0 0000	0 75	0 0000	0 75	0 0000	0 75 (1)	0 0000	0 75 (1)
	0 0000	0 75 (2)	0 0000	0 75 (2)							0 0000	0 75 (2)	0 0000	0 75 (2)
	0 0000	0 75 (3)	0 0000	0 75 (3)							0 0000	0 75 (3)	0 0000	0 75 (3)
	0 0000	0 75 (4)	0 0000	0 75 (4)							0 0000	0 75 (4)	0 0000	0 75 (4)
T5 220 00-200 00	0 0000	0 75 (1)	0 0000	0 75 (1)	0 0000	0 75	0 0000	0 75	0 0000	0 75	0 0000	0 75 (1)	0 0000	0 75 (1)
	0 0000	0 75 (2)	0 0000	0 75 (2)							0 0000	0 75 (2)	0 0000	0 75 (2)
	0 0000	0 75 (3)	0 0000	0 75 (3)							0 0000	0 75 (3)	0 0000	0 75 (3)
	0 0000	0 75 (4)	0 0000	0 75 (4)							0 0000	0 75 (4)	0 0000	0 75 (4)
T6 200 00-180 00	0 0000	0 75 (1)	0 0000	0 75 (1)	0 0000	0 75	0 0000	0 75	0 0000	0 75	0 0000	0 75 (1)	0 0000	0 75 (1)
	0 0000	0 75 (2)	0 0000	0 75 (2)							0 0000	0 75 (2)	0 0000	0 75 (2)
	0 0000	0 75 (3)	0 0000	0 75 (3)							0 0000	0 75 (3)	0 0000	0 75 (3)
	0 0000	0 75 (4)	0 0000	0 75 (4)							0 0000	0 75 (4)	0 0000	0 75 (4)
T7 180 00-160 00	0 0000	0 75 (1)	0 0000	0 75 (1)	0 0000	0 75	0 0000	0 75	0 0000	0 75	0 0000	0 75 (1)	0 0000	0 75 (1)
	0 0000	0 75 (2)	0 0000	0 75 (2)							0 0000	0 75 (2)	0 0000	0 75 (2)
	0 0000	0 75 (3)	0 0000	0 75 (3)							0 0000	0 75 (3)	0 0000	0 75 (3)
	0 0000	0 75 (4)	0 0000	0 75 (4)							0 0000	0 75 (4)	0 0000	0 75 (4)
T8 160 00-140 00	0 0000	0 75 (1)	0 0000	0 75 (1)	0 0000	0 75	0 0000	0 75	0 0000	0 75	0 0000	0 75 (1)	0 0000	0 75 (1)
	0 0000	0 75 (2)	0 0000	0 75 (2)							0 0000	0 75 (2)	0 0000	0 75 (2)
	0 0000	0 75 (3)	0 0000	0 75 (3)							0 0000	0 75 (3)	0 0000	0 75 (3)



Tower Section Geometry *(cont'd)*

Tower Elevation	Connection Offsets							
	Diagonal				K-Bracing			
	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
T1 300 00-280 00	5 0000	5 0000	5 0000	5 0000	0 0000	0 0000	0 0000	0 0000
T2 280 00-260 00	5 0000	5 0000	5 0000	5 0000	0 0000	0 0000	0 0000	0 0000
T3 260 00-240 00	5 0000	5 0000	5 0000	5 0000	0 0000	0 0000	0 0000	0 0000
T4 240 00-220 00	5 0000	6 2500	5 0000	6 2500	0 0000	0 0000	0 0000	0 0000
T5 220 00-200 00	5 0000	6 2500	5 0000	6 2500	0 0000	0 0000	0 0000	0 0000
T6 200 00-180 00	5 0000	6 2500	5 0000	6 2500	0 0000	0 0000	0 0000	0 0000
T7 180 00-160 00	5 0000	6 2500	5 0000	6 2500	0 0000	0 0000	0 0000	0 0000
T8 160 00-140 00	5 0000	10 7500	5 0000	10 7500	0 0000	0 0000	0 0000	0 0000
T9 140 00-120 00	5 0000	10 7500	5 0000	10 7500	0 0000	0 0000	0 0000	0 0000
T10 120 00-100 00	5 0000	10 7500	5 0000	10 7500	0 0000	0 0000	0 0000	0 0000
T11 100 00-80 00	5 0000	10 7500	5 0000	10 7500	0 0000	0 0000	0 0000	0 0000
T12 80 00-60 00	5 0000	11 5000	5 0000	11 5000	0 0000	0 0000	0 0000	0 0000
T13 60 00-40 00	5 0000	11 5000	5 0000	11 5000	0 0000	0 0000	0 0000	0 0000
T14 40 00-20 00	5 0000	11 5000	5 0000	11 5000	0 0000	0 0000	0 0000	0 0000
T15 20 00-0 00	5 0000	11 5000	5 0000	11 5000	0 0000	0 0000	0 0000	0 0000

Tower Section Geometry *(cont'd)*

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
LDF4P-50A (1/2 FOAM) ***	A	No	No	Ar (CaAa)	300 00 - 0 00	3 0000	-0 38	4	2	0 6200 1 0000	0 6300		0 15
LDF5-50A (7/8 FOAM)	A	No	No	Ar (CaAa)	220 00 - 0 00	3 0000	-0 4	2	1	0 1600 1 0000	1 0900		0 33
LDF5-50A (7/8 FOAM) ***	A	No	No	Ar (CaAa)	275 00 - 220 00	3 0000	-0 4	1	1	0 1600 1 0000	1 0900		0 33
Ethernet	A	No	No	Ar (CaAa)	170 00 - 0 00	3 0000	-0 42	6	3	1 0000	1 0000		0 21
Ethernet	A	No	No	Ar (CaAa)	260 00 - 170 00	3 0000	-0 42	2	1	1 0000	1 0000		0 21
EW52	A	No	No	Ar (CaAa)	145 00 - 0 00	3 0000	-0 44	4	2	0 7600 1 0000	1 7426		0 59
EW52	A	No	No	Ar (CaAa)	180 00 - 145 00	3 0000	-0 44	2	1	0 7600 1 0000	1 7426		0 59

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#		C_AA_A ft²/ft	Weight plf
Climbing Ladder	C	No	No	CaAa (In Face)	300 00 - 0 00	0 2000	0	1	No Ice	0 29	7 90

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft²	A_F ft²	C_AA_A In Face ft²	C_AA_A Out Face ft²	Weight K
T1	300 00-280 00	A	0 000	0 000	24 627	0 000	0 15
		B	0 000	0 000	3 144	0 000	0 02
		C	0 000	0 000	6 550	0 000	0 16
T2	280 00-260 00	A	0 000	0 000	32 202	0 000	0 18
		B	0 000	0 000	3 144	0 000	0 02
		C	0 000	0 000	6 550	0 000	0 16
T3	260 00-240 00	A	0 000	0 000	42 687	0 000	0 22
		B	0 000	0 000	3 144	0 000	0 02
		C	0 000	0 000	6 550	0 000	0 16
T4	240 00-220 00	A	0 000	0 000	46 647	0 000	0 23
		B	0 000	0 000	3 144	0 000	0 02
		C	0 000	0 000	6 550	0 000	0 16
T5	220 00-200 00	A	0 000	0 000	48 827	0 000	0 24
		B	0 000	0 000	3 144	0 000	0 02
		C	0 000	0 000	6 550	0 000	0 16
T6	200 00-180 00	A	0 000	0 000	48 827	0 000	0 24
		B	0 000	0 000	3 144	0 000	0 02
		C	0 000	0 000	6 550	0 000	0 16
T7	180 00-160 00	A	0 000	0 000	59 797	0 000	0 27
		B	0 000	0 000	3 144	0 000	0 02
		C	0 000	0 000	6 550	0 000	0 16
T8	160 00-140 00	A	0 000	0 000	65 540	0 000	0 29

Tower Section	Feed Line Record No	Description	Feed Line Segment Elev	K_a No Ice	K_a Ice
T1	3	Lighting Cable (8 AWG) 372	300 00 280 00 -	0 6000	0 6000
T1	5	1 75" Feedline Ladder Rail	300 00 280 00 -	0 6000	0 6000
T1	6	1 75" Feedline Ladder Rail	300 00 280 00 -	0 6000	0 6000
T1	10	LDF7-50A (1-5/8 FOAM)	300 00 280 00 -	0 6000	0 6000
T1	12	LDF4P-50A (1/2 FOAM)	300 00 280 00 -	0 6000	0 6000
T2	1	Safety Line 3/8	300 00 260 00 -	0 6000	0 6000
T2	2	Climbing Ladder	280 00 260 00 -	0 6000	0 6000
T2	3	Lighting Cable (8 AWG) 372	280 00 260 00 -	0 6000	0 6000
T2	5	1 75" Feedline Ladder Rail	280 00 260 00 -	0 6000	0 6000
T2	6	1 75" Feedline Ladder Rail	280 00 260 00 -	0 6000	0 6000
T2	9	LDF7-50A (1-5/8 FOAM)	280 00 260 00 -	0 6000	0 6000
T2	10	LDF7-50A (1-5/8 FOAM)	275 00 275 00 -	0 6000	0 6000
T2	12	LDF4P-50A (1/2 FOAM)	280 00 260 00 -	0 6000	0 6000
T2	15	LDF5-50A (7/8 FOAM)	280 00 260 00 -	0 6000	0 6000
T3	1	Safety Line 3/8	275 00 240 00 -	0 6000	0 6000
T3	2	Climbing Ladder	260 00 240 00 -	0 6000	0 6000
T3	3	Lighting Cable (8 AWG) 372	260 00 240 00 -	0 6000	0 6000
T3	5	1 75" Feedline Ladder Rail	260 00 240 00 -	0 6000	0 6000
T3	6	1 75" Feedline Ladder Rail	260 00 240 00 -	0 6000	0 6000
T3	8	LDF7-50A (1-5/8 FOAM)	260 00 240 00 -	0 6000	0 6000
T3	9	LDF7-50A (1-5/8 FOAM)	250 00 250 00 -	0 6000	0 6000
T3	12	LDF4P-50A (1/2 FOAM)	260 00 240 00 -	0 6000	0 6000
T3	15	LDF5-50A (7/8 FOAM)	260 00 240 00 -	0 6000	0 6000
T3	18	Ethernet	260 00 240 00 -	0 6000	0 6000
T4	1	Safety Line 3/8	260 00 220 00 -	0 6000	0 6000
T4	2	Climbing Ladder	240 00 220 00 -	0 6000	0 6000
T4	3	Lighting Cable (8 AWG) 372	240 00 220 00 -	0 6000	0 6000
T4	5	1 75" Feedline Ladder Rail	240 00 220 00 -	0 6000	0 6000
T4	6	1 75" Feedline Ladder Rail	240 00 220 00 -	0 6000	0 6000
T4	8	LDF7-50A (1-5/8 FOAM)	240 00 220 00 -	0 6000	0 6000
T4	12	LDF4P-50A (1/2 FOAM)	240 00 220 00 -	0 6000	0 6000

VALMONT

1545 Pidco Dr

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Job	Page
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Project	**Date**
H-29' x300' - Suwannee Valley Tower, FL.	15 32:46 02/13/26
Client	**Designed by**
Florida Tel-Con, Inc	ES

Tower Section	*Feed Line Record No*	*Description*	*Feed Line Segment Elev*	*K_a No Ice*	*K_a Ice*
			180 00		
T8	1	Safety Line 3/8	140 00 - 160 00	0 6000	0 6000
T8	2	Climbing Ladder	140 00 - 160 00	0 6000	0 6000
T8	3	Lighting Cable (8 AWG) 372	140 00 - 160 00	0 6000	0 6000
T8	5	1 75" Feedline Ladder Rail	140 00 - 160 00	0 6000	0.6000
T8	6	1 75" Feedline Ladder Rail	140 00 - 160 00	0 6000	0 6000
T8	8	LDF7-50A (1-5/8 FOAM)	140 00 - 160 00	0 6000	0 6000
T8	12	LDF4P-50A (1/2 FOAM)	140 00 - 160 00	0 6000	0 6000
T8	14	LDF5-50A (7/8 FOAM)	140 00 - 160 00	0 6000	0 6000
T8	17	Ethernet	140 00 - 160 00	0 6000	0 6000
T8	19	EW52	140 00 - 145 00	0 6000	0 6000
T8	20	EW52	145 00 - 160 00	0 6000	0 6000
T9	1	Safety Line 3/8	120 00 - 140 00	0 6000	0 6000
T9	2	Climbing Ladder	120 00 - 140 00	0 6000	0 6000
T9	3	Lighting Cable (8 AWG) 372	120 00 - 140 00	0 6000	0 6000
T9	5	1 75" Feedline Ladder Rail	120 00 - 140 00	0 6000	0 6000
T9	6	1 75" Feedline Ladder Rail	120 00 - 140 00	0 6000	0 6000
T9	8	LDF7-50A (1-5/8 FOAM)	120 00 - 140 00	0 6000	0 6000
T9	12	LDF4P-50A (1/2 FOAM)	120 00 - 140 00	0 6000	0 6000
T9	14	LDF5-50A (7/8 FOAM)	120 00 - 140 00	0 6000	0 6000
T9	17	Ethernet	120 00 - 140 00	0 6000	0 6000
T9	19	EW52	120 00 - 140 00	0 6000	0 6000
T10	1	Safety Line 3/8	100 00 - 120 00	0 6000	0 6000
T10	2	Climbing Ladder	100 00 - 120 00	0 6000	0 6000
T10	3	Lighting Cable (8 AWG) 372	100 00 - 120 00	0 6000	0 6000
T10	5	1 75 ' Feedline Ladder Rail	100 00 - 120 00	0 6000	0 6000
T10	6	1 75" Feedline Ladder Rail	100 00 - 120 00	0 6000	0 6000
T10	8	LDF7-50A (1-5/8 FOAM)	100 00 - 120 00	0 6000	0 6000
T10	12	LDF4P-50A (1/2 FOAM)	100 00 - 120 00	0 6000	0 6000
T10	14	LDF5-50A (7/8 FOAM)	100 00 - 120 00	0 6000	0 6000
T10	17	Ethernet	100 00 - 120 00	0 6000	0 6000
T10	19	EW52	100 00 -	0 6000	0 6000

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1545 Pidco Dr	Project	Date
	H-29' x300' - Suwannee Valley Tower, FL.	15 32.46 02/13/26
Plymouth, IN Phone (574) 936-4221 FAX (574) 936-6458	Client	Designed by
	Florida Tel-Con, Inc	ES

Description	Face or Leg	Offset Type	Offsets Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
21' LRE with 7'-6" lightning rod (arm=11 5')	A	From Leg	0 00 0 00 11 50	0 0000	300 00	No Ice	6 98	6 98	0 15
Beacon	B	From Leg	0 00 0 00 1 00	0 0000	300 00	No Ice	2 40	2 40	0 07
Beacon	C	From Leg	0 00 0 00 1 00	0 0000	300 00	No Ice	2 40	2 40	0 07
***									
Marker Interface enclosure	C	From Face	0 00 0 00 0 00	0 0000	150 00	No Ice	1 17	0 48	0 02
OB light	C	From Leg	1 00 0 00 0 00	0 0000	150 00	No Ice	0 50	0 50	0 03
OB light	B	From Leg	1 00 0 00 0 00	0 0000	150 00	No Ice	0 50	0 50	0 03
OB light	A	From Leg	1 00 0 00 0 00	0 0000	150 00	No Ice	0 50	0 50	0 03
****									
SC488-HF1SNF	B	From Leg	6 00 0 00 7 92	0 0000	300 00	No Ice	4 39	4 39	0 03
SP1 HS6D-K	B	From Leg	3 00 0 00 0 00	0 0000	298 00	No Ice	6 73	10 75	0 39
SC488-HF1SNF (Future)	C	From Leg	6 00 0 00 7 92	0 0000	300 00	No Ice	4 39	4 39	0 03
SP1 HS6D-K (Future)	C	From Leg	3 00 0 00 0 00	0 0000	298 00	No Ice	6 73	10 75	0 39
TTA (12"x12"x6")	B	From Leg	6 00 0 00 0 00	0 0000	300 00	No Ice	1 20	0 80	0 03
TTA (12"x12"x6") (Future)	C	From Leg	6 00 0 00 0 00	0 0000	300 00	No Ice	1 20	0 80	0 03
****									
DB224-A	A	From Leg	6 00 0 00 10 63	0 0000	275 00	No Ice	5 67	5 67	0 04
SP1 HS6D-K	A	From Leg	3 00 0 00 0 00	0 0000	273 00	No Ice	6 73	10 75	0 39
SC488-HF1SNF (Future)	C	From Leg	6 00 0 00 7 92	0 0000	275 00	No Ice	4 39	4 39	0 03
SP1 HS6D-K (Future)	C	From Leg	3 00 0 00 0 00	0 0000	273 00	No Ice	6 73	10 75	0 39
SC488-HF1SNF (Future)	B	From Leg	6 00 0 00 7 92	0 0000	275 00	No Ice	4 39	4 39	0 03

Description	Face or Leg	Offset Type	Offsets Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0 00						
MW Radio	A	From Leg	0 50 0 00 0 00	0 0000	170 00	No Ice	0 68	0 29	0 03
MW Radio	B	From Leg	0 50 0 00 0 00	0 0000	170 00	No Ice	0 68	0 29	0 03
***									
SP1 R5 (Includes 4 5"x72" Pipe)	B	From Leg	0 50 0 00 0 00	0 0000	145 00	No Ice	2 85	3 15	0 14
SP1 R5 (Includes 4 5"x72" Pipe)	C	From Leg	0 50 0 00 0 00	0 0000	145 00	No Ice	2 85	3 15	0 14
2-1/2" x 15' Sch. 40 FACE TIE BACK PIPE	C	From Face	0 00 0 00 0 00	0 0000	145 00	No Ice	4 31	4 31	0 09
2-1/2" x 15' Sch 40 FACE TIE BACK PIPE	B	From Face	0 00 0 00 0 00	0 0000	145 00	No Ice	4 31	4 31	0 09
2-1/2" x 15' Sch. 40 FACE TIE BACK PIPE	A	From Face	0 00 0 00 0 00	0 0000	145 00	No Ice	4 31	4 31	0 09

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets Horz Lateral ft / Vert ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft		Aperture Area ft^2	Weight K
SPD2-5 2 w/ Radome	A	Paraboloid w/Radome	From Leg	0 50 0 00 0 00	0 0000		260 00	2 14	No Ice	3 60	0 03
***											
HP6-65	C	Paraboloid w/Shroud (HP)	From Leg	0 50 0 00 0 00	0 0000		180 00	6 46	No Ice	32 76	0 25
HP6-65	B	Paraboloid w/Shroud (HP)	From Leg	0 50 0 00 0 00	0 0000		180 00	6 46	No Ice	32 76	0 25
***											
SPD2-5 2 w/ Radome	A	Paraboloid w/Radome	From Leg	0 50 0 00 0 00	0 0000		170 00	2 14	No Ice	3 60	0 03
SPD2-5 2 w/ Radome	B	Paraboloid w/Radome	From Leg	0 50 0 00 0 00	0 0000		170 00	2 14	No Ice	3 60	0 03
***											
HP6-65	C	Paraboloid w/Shroud (HP)	From Leg	0 50 0 00	0 0000		145 00	6 46	No Ice	32 76	0 25

Section Elevation ft	z ft	K_Z	q_z psf	A_G ft²	Face	A_F ft²	A_R ft²	A_{leg} ft²	Leg %	C_AA_A In Face ft²	C_AA_A Out Face ft²
T3	250 00	1 535	54	105 833	A	7 857	11 667	11 667	59 76	42 687	0 000
260 00-240 00					B	7 857	11 667		59 76	3 144	0 000
					C	7 857	11 667		59 76	6 550	0 000
T4	230 00	1 508	53	129 283	A	7 669	18 574	18 574	70 78	46 647	0 000
240 00-220 00					B	7 669	18 574		70 78	3 144	0 000
					C	7 669	18 574		70 78	6 550	0 000
T5	210 00	1 480	52	169 282	A	9 088	18 574	18 574	67 15	48 827	0 000
220 00-200 00					B	9 088	18 574		67 15	3 144	0 000
					C	9 088	18 574		67 15	6 550	0 000
T6	190 00	1 449	51	211 054	A	16 044	22 120	22 120	57 96	48 827	0 000
200 00-180 00					B	16 044	22 120		57 96	3 144	0 000
					C	16 044	22 120		57 96	6 550	0 000
T7	170 00	1 415	49	251 054	A	15 523	22 120	22 120	58 76	59 797	0 000
180 00-160 00					B	15 523	22 120		58 76	3 144	0 000
					C	15 523	22 120		58 76	6 550	0 000
T8	150 00	1 378	48	302 527	A	15 272	23 356	23 356	60 46	65 540	0 000
160 00-140 00					B	15 272	23 356		60 46	3 144	0 000
					C	15 272	23 356		60 46	6 550	0 000
T9	130 00	1 337	47	342 944	A	16 913	23 654	23 654	58 31	70 767	0 000
140 00-120 00					B	16 913	23 654		58 31	3 144	0 000
					C	16 913	23 654		58 31	6 550	0 000
T10	110 00	1 291	45	382 944	A	18 625	23 654	23 654	55 95	70 767	0 000
120 00-100 00					B	18 625	23 654		55 95	3 144	0 000
					C	18 625	23 654		55 95	6 550	0 000
T11	90 00	1.238	43	422 944	A	23 787	23 654	23 654	49 86	70 767	0 000
100 00-80 00					B	23 787	23 654		49 86	3 144	0 000
					C	23 787	23 654		49 86	6 550	0 000
T12	70 00	1 174	41	463 361	A	13 884	27 179	27 179	66 19	70 767	0 000
80 00-60 00					B	13 884	27 179		66 19	3 144	0 000
					C	13 884	27 179		66 19	6 550	0 000
T13	50 00	1 094	38	503 778	A	14 623	28 755	28 755	66 29	70 767	0 000
60 00-40 00					B	14 623	28 755		66 29	3 144	0 000
					C	14 623	28 755		66 29	6 550	0 000
T14	30 00	0 982	34	543 778	A	15 392	28 755	28 755	65 13	70 767	0 000
40 00-20 00					B	15 392	28 755		65 13	3 144	0 000
					C	15 392	28 755		65 13	6 550	0 000
T15 20 00-0 00	10 00	0 850	30	583 778	A	18 884	27 975	27 975	59 70	70 767	0 000
					B	18 884	27 975		59 70	3 144	0 000
					C	18 884	27 975		59 70	6 550	0 000

Tower Pressure - Service

$G_H = 0.850$

Section Elevation ft	z ft	K_Z	q_z psf	A_G ft²	Face	A_F ft²	A_R ft²	A_{leg} ft²	Leg %	C_AA_A In Face ft²	C_AA_A Out Face ft²
T1	290 00	1 584	12	104 792	A	8 553	9 583	9 583	52 84	24 627	0 000
300 00-280 00					B	8 553	9 583		52 84	3 144	0 000
					C	8 553	9 583		52 84	6 550	0 000
T2	270 00	1 560	12	104 792	A	7 857	9 583	9 583	54 95	32 202	0 000
280 00-260 00					B	7 857	9 583		54 95	3 144	0 000
					C	7 857	9 583		54 95	6 550	0 000
T3	250 00	1 535	12	105 833	A	7 857	11 667	11 667	59 76	42 687	0 000
260 00-240 00					B	7 857	11 667		59 76	3 144	0 000

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Project	**Date**
H-29' x300' - Suwannee Valley Tower, FL.	15:32.46 02/13/26
Client	**Designed by**
Florida Tel-Con, Inc	ES

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F K	w plf	Ctrl Face
220 00-200 00			B	0 163	2 723		1	1	17 443			
			C	0 163	2 723		1	1	17 443			
T6	0 42	1 95	A	0 181	2 661	51	1	1	25 666	4 19	209 33	C
200 00-180 00			B	0 181	2 661		1	1	25 666			
			C	0 181	2 661		1	1	25 666			
T7	0 45	1 92	A	0 15	2 772	49	1	1	24 784	4 34	217 08	C
180 00-160 00			B	0 15	2 772		1	1	24 784			
			C	0 15	2 772		1	1	24 784			
T8	0 47	2 57	A	0 128	2 855	48	1	1	28 483	4 83	241 54	A
160 00-140 00			B	0 128	2 855		1	1	28 483			
			C	0 128	2 855		1	1	28 483			
T9	0 48	3 42	A	0 118	2 892	47	1	1	30 279	5 05	252 32	A
140 00-120 00			B	0 118	2 892		1	1	30 279			
			C	0 118	2 892		1	1	30 279			
T10	0 48	3 79	A	0 11	2 923	45	1	1	31 982	5 10	254 93	A
120 00-100 00			B	0 11	2 923		1	1	31 982			
			C	0 11	2 923		1	1	31 982			
T11	0 48	3 85	A	0 112	2 916	43	1	1	37 146	5 43	271 64	A
100 00-80 00			B	0 112	2 916		1	1	37 146			
			C	0 112	2 916		1	1	37 146			
T12	0 48	4 29	A	0 089	3 01	41	1	1	29 217	4 44	222 17	A
80 00-60 00			B	0 089	3 01		1	1	29 217			
			C	0 089	3 01		1	1	29 217			
T13	0 48	4 89	A	0 086	3 021	38	1	1	30 846	4 31	215 46	A
60 00-40 00			B	0 086	3 021		1	1	30 846			
			C	0 086	3 021		1	1	30 846			
T14	0 48	5 42	A	0 081	3 041	34	1	1	31 615	3 96	197 81	A
40 00-20 00			B	0 081	3 041		1	1	31 615			
			C	0 081	3 041		1	1	31 615			
T15	0 48	5 61	A	0 08	3 045	30	1	1	34 667	3 66	183 05	A
20 00-0 00			B	0 08	3 045		1	1	34 667			
			C	0 08	3 045		1	1	34 667			
Sum Weight	6 65	42 61						OTM	8352 15 kip-ft	60 26		

Tower Forces - No Ice - Wind 60 To Face

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F K	w plf	Ctrl Face
T1	0 33	0 65	A	0 173	2 688	55	0 8	1	12 307	2 52	126 16	A
300 00-280 00			B	0 173	2 688		0 8	1	12 307			
			C	0 173	2 688		0 8	1	12 307			
T2	0 36	0 61	A	0 166	2 712	54	0 8	1	11 742	2 56	128 03	A
280 00-260 00			B	0 166	2 712		0 8	1	11 742			
			C	0 166	2 712		0 8	1	11 742			
T3	0 40	1 01	A	0 184	2 649	54	0 8	1	12.684	2 77	138 67	A
260 00-240 00			B	0 184	2 649		0 8	1	12 684			
			C	0 184	2 649		0 8	1	12.684			
T4	0 41	1 28	A	0 203	2 586	53	0 8	1	14 804	2 96	147 79	A
240 00-220 00			B	0 203	2 586		0 8	1	14 804			
			C	0 203	2 586		0 8	1	14 804			
T5	0 42	1 34	A	0 163	2 723	52	0 8	1	15 625	3 14	157 22	A

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F K	w plf	Ctrl Face
220 00-200 00			B	0 163	2 723		0 85	1	16 080			
			C	0 163	2 723		0 85	1	16 080			
T6	0 42	1 95	A	0 181	2 661	51	0 85	1	23 260	3 96	197 94	B
200 00-180 00			B	0 181	2 661		0 85	1	23 260			
			C	0 181	2 661		0 85	1	23 260			
T7	0 45	1 92	A	0 15	2 772	49	0 85	1	22 455	4 13	206 44	B
180 00-160 00			B	0 15	2 772		0 85	1	22 455			
			C	0 15	2 772		0 85	1	22 455			
T8	0 47	2 57	A	0 128	2 855	48	0 85	1	26 193	4 66	232 79	B
160 00-140 00			B	0 128	2 855		0 85	1	26 193			
			C	0 128	2 855		0 85	1	26 193			
T9	0 48	3 42	A	0 118	2 892	47	0 85	1	27 742	4 82	240 85	B
140 00-120 00			B	0 118	2 892		0 85	1	27 742			
			C	0 118	2 892		0 85	1	27 742			
T10	0 48	3 79	A	0 11	2 923	45	0 85	1	29 188	4 85	242 27	B
120 00-100 00			B	0 11	2 923		0 85	1	29 188			
			C	0 11	2 923		0 85	1	29 188			
T11	0 48	3 85	A	0 112	2 916	43	0 85	1	33 578	5 11	255 39	B
100 00-80 00			B	0 112	2 916		0 85	1	33 578			
			C	0 112	2 916		0 85	1	33 578			
T12	0 48	4 29	A	0 089	3 01	41	0 85	1	27 135	4 28	213 97	B
80 00-60 00			B	0 089	3 01		0 85	1	27 135			
			C	0 089	3 01		0 85	1	27 135			
T13	0 48	4 89	A	0 086	3 021	38	0 85	1	28 653	4 14	207 23	B
60 00-40 00			B	0 086	3 021		0 85	1	28 653			
			C	0 086	3 021		0 85	1	28 653			
T14	0 48	5 42	A	0 081	3 041	34	0 85	1	29 306	3 80	189 85	B
40 00-20 00			B	0 081	3 041		0 85	1	29 306			
			C	0 081	3 041		0 85	1	29 306			
T15	0 48	5 61	A	0 08	3 045	30	0 85	1	31 835	3 48	174 14	B
20 00-0 00			B	0 08	3 045		0 85	1	31 835			
			C	0 08	3 045		0 85	1	31 835			
Sum Weight	6 65	42 61						OTM	7974 38 kip-ft	57 55		

Tower Forces - Service - Wind Normal To Face

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F K	w plf	Ctrl Face
T1	0 33	0 65	A	0 173	2 688	12	1	1	14 018	0 61	30 57	C
300 00-280 00			B	0 173	2 688		1	1	14 018			
			C	0 173	2 688		1	1	14 018			
T2	0 36	0 61	A	0 166	2 712	12	1	1	13 314	0 62	30 78	C
280 00-260 00			B	0 166	2 712		1	1	13 314			
			C	0 166	2 712		1	1	13 314			
T3	0 40	1 01	A	0 184	2 649	12	1	1	14 529	0 67	33 44	C
260 00-240 00			B	0 184	2 649		1	1	14 529			
			C	0 184	2 649		1	1	14 529			
T4	0 41	1 28	A	0 203	2 586	12	1	1	18 350	0 75	37 57	C
240 00-220 00			B	0 203	2 586		1	1	18 350			
			C	0 203	2 586		1	1	18 350			
T5	0 42	1 34	A	0 163	2 723	12	1	1	19 658	0 81	40 47	C

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F K	w plf	Ctrl Face
220 00-200 00			B	0 163	2 723		0 8	1	17 840			
			C	0 163	2 723		0 8	1	17 840			
T6	0 42	1 95	A	0 181	2 661	11	0 8	1	25 415	0 93	46 40	A
200 00-180 00			B	0 181	2 661		0 8	1	25 415			
			C	0 181	2 661		0 8	1	25 415			
T7	0 45	1 92	A	0 15	2 772	11	0 8	1	24 946	0 97	48 66	A
180 00-160 00			B	0 15	2 772		0 8	1	24 946			
			C	0 15	2 772		0 8	1	24 946			
T8	0 47	2 57	A	0 128	2 855	11	0 8	1	25 429	1 00	49 93	B
160 00-140 00			B	0 128	2 855		0 8	1	25 429			
			C	0 128	2 855		0 8	1	25 429			
T9	0 48	3 42	A	0 118	2 892	10	0 8	1	26 897	1 04	51 98	B
140 00-120 00			B	0 118	2 892		0 8	1	26 897			
			C	0 118	2 892		0 8	1	26 897			
T10	0 48	3 79	A	0 11	2 923	10	0 8	1	28 257	1 04	52 24	B
120 00-100 00			B	0 11	2 923		0 8	1	28 257			
			C	0 11	2 923		0 8	1	28 257			
T11	0 48	3 85	A	0 112	2 916	10	0 8	1	32 389	1 10	54 94	B
100 00-80 00			B	0 112	2 916		0 8	1	32 389			
			C	0 112	2 916		0 8	1	32 389			
T12	0 48	4 29	A	0 089	3 01	9	0 8	1	26 441	0 93	46 34	B
80 00-60 00			B	0 089	3 01		0 8	1	26 441			
			C	0 089	3 01		0 8	1	26 441			
T13	0 48	4 89	A	0 086	3 021	9	0 8	1	27 921	0 90	44 89	B
60 00-40 00			B	0 086	3 021		0 8	1	27 921			
			C	0 086	3 021		0 8	1	27 921			
T14	0 48	5 42	A	0 081	3 041	8	0 8	1	28 537	0 82	41 11	B
40 00-20 00			B	0 081	3 041		0 8	1	28 537			
			C	0 081	3 041		0 8	1	28 537			
T15	0 48	5 61	A	0 08	3 045	7	0 8	1	30 890	0 75	37 62	B
20 00-0 00			B	0 08	3 045		0 8	1	30 890			
			C	0 08	3 045		0 8	1	30 890			
Sum Weight	6 65	42 61						OTM	1780 23 kip-ft	12 72		

Tower Forces - Service - Wind 90 To Face

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F K	w plf	Ctrl Face
T1	0 33	0 65	A	0 173	2 688	12	0 85	1	12 735	0 57	28 74	A
300 00-280 00			B	0 173	2 688		0 85	1	12 735			
			C	0 173	2 688		0 85	1	12 735			
T2	0 36	0 61	A	0 166	2 712	12	0 85	1	12 135	0 58	29 18	A
280 00-260 00			B	0 166	2 712		0 85	1	12 135			
			C	0 166	2 712		0 85	1	12 135			
T3	0 40	1 01	A	0 184	2 649	12	0 85	1	13 351	0 64	32 03	B
260 00-240 00			B	0 184	2 649		0 85	1	13 351			
			C	0 184	2 649		0 85	1	13 351			
T4	0 41	1 28	A	0.203	2 586	12	0 85	1	17 199	0 73	36 73	B
240 00-220 00			B	0 203	2 586		0 85	1	17 199			
			C	0 203	2 586		0 85	1	17 199			
T5	0 42	1 34	A	0 163	2 723	12	0 85	1	18 295	0 78	39 20	B

VALMONT

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Project	**Date**
H-29' x300' - Suwannee Valley Tower, FL.	15 32.46 02/13/26
Client	**Designed by**
Florida Tel-Con, Inc	ES

Section No	Section Elevation ft	Wind Azimuth °	Directionality	F K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
		60	Wind 60	2 53	2 19	-1 26	-340 93	-590 59	-0 44
		90	Wind 90	2 59	2 59	0 00	0 32	-697 50	0 60
		120	Wind Normal	2 63	2 28	1 31	355 10	-614 02	1 32
		150	Wind 90	2 59	1 29	2.24	605 19	-348 75	2 05
		180	Wind 60	2 56	0 00	2 56	691 66	0 47	2 09
		210	Wind 90	2 61	-1 31	2 26	611 63	353 41	1 51
		240	Wind Normal	2 73	-2 36	1 36	368 21	637 67	0 44
		270	Wind 90	2 59	-2 59	0 00	0 32	698 44	-0 60
		300	Wind 60	2 43	-2 11	-1 22	-327 82	568 82	-1 32
		330	Wind 90	2 59	-1 29	-2 24	-604 54	349 69	-2 05
T3	260 00-240 00	0	Wind Normal	2 96	0 00	-2 96	-740 40	0 56	-2 50
		30	Wind 90	2 81	1 40	-2 43	-607 15	-350 18	-1 77
		60	Wind 60	2 74	2 37	-1 37	-342 30	-592 91	-0 53
		90	Wind 90	2 84	2 84	0 00	0 35	-708 37	0 75
		120	Wind Normal	2 87	2 49	1 44	359 40	-621 34	1 70
		150	Wind 90	2 84	1 42	2 46	614 67	-354 12	2 58
		180	Wind 60	2 77	0 00	2 77	693 69	0 56	2 50
		210	Wind 90	2 81	-1 40	2 43	607 84	351 30	1 77
		240	Wind Normal	2 93	-2 54	1 47	366 69	635 08	0 53
		270	Wind 90	2 84	-2 84	0 00	0 35	709 49	-0 75
		300	Wind 60	2 68	-2 32	-1 34	-335 00	581 40	-1 70
		330	Wind 90	2 84	-1 42	-2 46	-613 98	355 24	-2 58
T4	240 00-220 00	0	Wind Normal	3 13	0 00	-3 13	-720 26	0 70	-2 95
		30	Wind 90	2 96	1 48	-2 57	-590 09	-340 23	-2 01
		60	Wind 60	2 92	2 53	-1 46	-335 85	-581 76	-0 58
		90	Wind 90	3 06	3 06	0 00	0 44	-702 39	0 98
		120	Wind Normal	3 11	2 69	1 55	357 79	-618 25	2 19
		150	Wind 90	3 06	1 53	2 65	609 67	-351 04	3 19
		180	Wind 60	2 96	0 00	2 96	680 29	0 70	2 95
		210	Wind 90	2 96	-1 48	2 57	590 96	341 64	2 01
		240	Wind Normal	3 10	-2 69	1 55	357 14	618 54	0 58
		270	Wind 90	3 06	-3 06	0 00	0 44	703 80	-0 98
		300	Wind 60	2 93	-2 54	-1 46	-336 50	584 29	-2 19
		330	Wind 90	3 06	-1 53	-2 65	-608 80	352 45	-3 19
T5	220 00-200 00	0	Wind Normal	3 36	0 00	-3 36	-705 35	0 94	-3 98
		30	Wind 90	3 16	1 58	-2 74	-574 77	-331 26	-2 67
		60	Wind 60	3 11	2 70	-1 56	-326 28	-565 26	-0 69
		90	Wind 90	3 25	3 25	0 00	0 61	-680 64	1 42
		120	Wind Normal	3 29	2 85	1 65	346 38	-597 96	2 91
		150	Wind 90	3 25	1 62	2 81	591 17	-340 02	4 31
		180	Wind 60	3 14	0 00	3 14	660 92	0 94	3 98
		210	Wind 90	3 16	-1 58	2 74	575 98	333 13	2 67
		240	Wind Normal	3 33	-2 88	1 67	350 32	606 66	0 69
		270	Wind 90	3 25	-3 25	0 00	0 61	682 51	-1 42
		300	Wind 60	3 08	-2 66	-1 54	-322 34	560 30	-2 91
		330	Wind 90	3 25	-1 62	-2 81	-589 95	341 90	-4 31
T6	200 00-180 00	0	Wind Normal	4 19	0 00	-4 19	-794 67	1 15	-4 78
		30	Wind 90	3 88	1 94	-3 36	-637 16	-367 16	-3 17
		60	Wind 60	3 79	3 28	-1 89	-359 18	-622 30	-0 76
		90	Wind 90	3 96	3 96	0 00	0 77	-750 70	1 79
		120	Wind Normal	4 12	3 57	2 06	392 11	-676 67	3 56
		150	Wind 90	3 96	1 98	3 43	652 16	-374 93	5 22
		180	Wind 60	3 82	0 00	3 82	726 45	1 15	4 78
		210	Wind 90	3 88	-1 94	3 36	638 70	369 46	3 17
		240	Wind Normal	4 16	-3 60	2 08	395 60	685 02	0 76
		270	Wind 90	3 96	-3 96	0 00	0 77	753 00	-1 79
		300	Wind 60	3 75	-3 25	-1 88	-355 68	618 55	-3 56
		330	Wind 90	3 96	-1 98	-3 43	-650 61	377 23	-5 22
T7	180 00-160 00	0	Wind Normal	4 34	0 00	-4 34	-737 04	1 55	-6 96
		30	Wind 90	4 02	2 01	-3 48	-591 01	-340 25	-4 50
		60	Wind 60	3 95	3 42	-1 98	-334 76	-580 03	-1 00

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Project	**Date**
H-29' x300' - Suwannee Valley Tower, FL.	15 32 46 02/13/26
Client	**Designed by**
Florida Tel-Con, Inc	ES

Section No	Section Elevation ft	Wind Azimuth °	Directionality	F K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
		120	Wind Normal	4 44	3 85	2 22	157 59	-266 27	10 35
		150	Wind 90	4 28	2 14	3 71	261 49	-146 67	13 54
		180	Wind 60	4 12	0 00	4 12	290 24	3 11	11 70
		210	Wind 90	4 14	-2 07	3 58	252 98	147 97	7 35
		240	Wind Normal	4 38	-3 80	2 19	155 49	268 83	1 37
		270	Wind 90	4 28	-4 28	0 00	2 07	302 57	-5 25
		300	Wind 60	4 15	-3 60	-2 08	-143 26	254 82	-10 35
		330	Wind 90	4 28	-2 14	-3 71	-257 35	152 88	-13 54
T13	60 00-40 00	0	Wind Normal	4 28	0 00	-4 28	-211 54	3 38	-11 86
		30	Wind 90	4 01	2 01	-3 48	-171 53	-96 97	-7 44
		60	Wind 60	3 97	3 43	-1 98	-96 89	-168 37	-1 35
		90	Wind 90	4 14	4 14	0 00	2 27	-203 79	5 36
		120	Wind Normal	4 31	3 73	2 15	109 99	-183 21	10 51
		150	Wind 90	4 14	2 07	3 59	181 73	-100 24	13 74
		180	Wind 60	3 99	0 00	3 99	201 73	3 38	11 86
		210	Wind 90	4 01	-2 01	3 48	176 07	103 72	7 44
		240	Wind Normal	4 25	-3 68	2 13	108 59	187 54	1 35
		270	Wind 90	4 14	-4 14	0 00	2 27	210 55	-5 36
		300	Wind 60	4 02	-3 48	-2 01	-98 29	177 55	-10 51
		330	Wind 90	4 14	-2 07	-3 59	-177 20	106 99	-13 74
T14	40 00-20 00	0	Wind Normal	3 93	0 00	-3 93	-115 34	3 65	-11 51
		30	Wind 90	3 68	1 84	-3 19	-93 13	-51 54	-7 20
		60	Wind 60	3 63	3 15	-1 82	-52 04	-90 74	-1 29
		90	Wind 90	3 80	3 80	0 00	2 46	-110 23	5 23
		120	Wind Normal	3 96	3 43	1 98	61 80	-99 14	10 23
		150	Wind 90	3 80	1 90	3 29	101 11	-53 30	13 35
		180	Wind 60	3 65	0 00	3 65	112 07	3 65	11 51
		210	Wind 90	3 68	-1 84	3 19	98 05	58 84	7 20
		240	Wind Normal	3 91	-3 38	1 95	61 05	105 13	1 29
		270	Wind 90	3 80	-3 80	0 00	2 46	117 53	-5 23
		300	Wind 60	3 68	-3 19	-1 84	-52 79	99 35	-10 23
		330	Wind 90	3 80	-1 90	-3 29	-96 19	60 61	-13 35
T15	20 00-0 00	0	Wind Normal	3 64	0 00	-3 64	-33 70	3 92	-10 71
		30	Wind 90	3 38	1 69	-2 93	-26 63	-12 98	-6 69
		60	Wind 60	3 33	2 88	-1 66	-13 98	-24 89	-1 18
		90	Wind 90	3 48	3 48	0 00	2 65	-30 90	4 89
		120	Wind Normal	3 66	3 17	1 83	20 96	-27 78	9 53
		150	Wind 90	3 48	1 74	3 02	32 82	-13 49	12 43
		180	Wind 60	3 35	0 00	3 35	36 11	3 92	10 71
		210	Wind 90	3 38	-1 69	2 93	31 94	20 83	6 69
		240	Wind Normal	3 62	-3 13	1 81	20 74	35 25	1 18
		270	Wind 90	3 48	-3 48	0 00	2 65	38 74	-4 89
		300	Wind 60	3 37	-2 92	-1 69	-14 20	33 12	-9 53
		330	Wind 90	3 48	-1 74	-3 02	-27 51	21 34	-12 43

Mast Totals - No Ice

Wind Azimuth °	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 00	-60 02	-8314 15	29 40	-110 91
30	28 02	-48 53	-6733 69	-3869 58	-70 96
60	47 69	-27 53	-3801 89	-6589 53	-14 59
90	57 47	0 00	19 55	-7924 53	47 07
120	51 64	29 82	4118 65	-7070 43	93 53
150	28 75	49 79	6911 01	-3949 38	125 93
180	0 00	55 48	7730 60	29 40	110 91

Section No	Section Elevation ft	Wind Azimuth °	Directionality	F K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
		300	Wind 60	0 71	-0 61	-0 35	-80 74	141 31	-0 49
		330	Wind 90	0 73	-0 37	-0 64	-145 90	85 19	-0 71
T5	220 00-200 00	0	Wind Normal	0 81	0 00	-0 81	-169 38	0 94	-0 89
		30	Wind 90	0 77	0 38	-0 66	-138 57	-79 42	-0 60
		60	Wind 60	0 75	0 65	-0 38	-78 56	-136 19	-0 15
		90	Wind 90	0 78	0 78	0 00	0 61	-163 61	0 32
		120	Wind Normal	0 79	0 69	0 40	83 99	-143 49	0 65
		150	Wind 90	0 78	0 39	0 68	143 17	-81 37	0 96
		180	Wind 60	0 76	0 00	0 76	160 40	0 94	0 89
		210	Wind 90	0 77	-0 38	0 66	139 78	81 29	0 60
		240	Wind Normal	0 80	-0 69	0 40	84 87	146 89	0 15
		270	Wind 90	0 78	-0 78	0 00	0 61	165 48	-0 32
		300	Wind 60	0 75	-0 65	-0 37	-77 68	136 54	-0 65
		330	Wind 90	0 78	-0 39	-0 68	-141 96	83 25	-0 96
T6	200 00-180 00	0	Wind Normal	1 01	0 00	-1 01	-191 12	1 15	-1 07
		30	Wind 90	0 94	0 47	-0 81	-154 04	-88 23	-0 71
		60	Wind 60	0 92	0 80	-0 46	-86 74	-150 43	-0 17
		90	Wind 90	0 96	0 96	0 00	0 77	-181 02	0 40
		120	Wind Normal	0 99	0 86	0 50	95 30	-162 57	0 80
		150	Wind 90	0 96	0 48	0 83	158 59	-89 97	1 17
		180	Wind 60	0 93	0 00	0 93	177 09	1 15	1 07
		210	Wind 90	0 94	-0 47	0 81	155 59	90 53	0 71
		240	Wind Normal	1 00	-0 87	0 50	96 07	166 22	0 17
		270	Wind 90	0 96	-0 96	0 00	0 77	183 31	-0 40
		300	Wind 60	0 91	-0 79	-0 46	-85 96	151 38	-0 80
		330	Wind 90	0 96	-0 48	-0 83	-157 05	92 27	-1 17
T7	180 00-160 00	0	Wind Normal	1 05	0 00	-1 05	-178 15	1 55	-1 55
		30	Wind 90	0 98	0 49	-0 85	-143 62	-81 95	-1 00
		60	Wind 60	0 97	0 84	-0 48	-81 14	-140 75	-0 22
		90	Wind 90	1 01	1 01	0 00	1 02	-169 48	0 62
		120	Wind Normal	1 04	0 90	0 52	89 24	-151 25	1 20
		150	Wind 90	1 01	0 50	0 87	149 20	-83 99	1 72
		180	Wind 60	0 97	0 00	0 97	166 47	1 55	1 55
		210	Wind 90	0 98	-0 49	0 85	145 66	85 06	1 00
		240	Wind Normal	1 05	-0 91	0 52	90 04	155 74	0 22
		270	Wind 90	1 01	-1 01	0 00	1 02	172 59	-0 62
		300	Wind 60	0 96	-0 83	-0 48	-80 35	142 49	-1 20
		330	Wind 90	1 01	-0 50	-0 87	-147 16	87 10	-1 72
T8	160 00-140 00	0	Wind Normal	1 08	0 00	-1 08	-160 43	1 90	-1 87
		30	Wind 90	1 00	0 50	-0 87	-129 21	-73 42	-1 19
		60	Wind 60	0 99	0 86	-0 50	-73 14	-126 93	-0 25
		90	Wind 90	1 04	1 04	0 00	1 24	-153 93	0 79
		120	Wind Normal	1 08	0 93	0 54	82 11	-138 17	1 57
		150	Wind 90	1 04	0 52	0 90	136 23	-76 04	2 14
		180	Wind 60	1 00	0 00	1 00	150 97	1 90	1 87
		210	Wind 90	1 00	-0 50	0 87	131 69	77 21	1 19
		240	Wind Normal	1 07	-0 93	0 54	81 59	141 07	0 25
		270	Wind 90	1 04	-1 04	0 00	1 24	157 72	-0 79
		300	Wind 60	1 00	-0 86	-0 50	-73 65	131 62	-1 57
		330	Wind 90	1 04	-0 52	-0 90	-133 75	79 83	-2 14
T9	140 00-120 00	0	Wind Normal	1 12	0 00	-1 12	-143 76	2 29	-2 19
		30	Wind 90	1 04	0 52	-0 90	-115 53	-65 28	-1 39
		60	Wind 60	1 02	0 89	-0 51	-65 10	-113 04	-0 28
		90	Wind 90	1 07	1 07	0 00	1 49	-137 44	0 95
		120	Wind Normal	1 13	0 98	0 56	74 70	-124 52	1 91
		150	Wind 90	1 08	0 54	0 93	122 54	-67 60	2 52
		180	Wind 60	1 03	0 00	1 03	135 48	2 29	2 19
		210	Wind 90	1 04	-0 52	0 90	118 51	69 85	1 39
		240	Wind Normal	1 11	-0 96	0 56	73 71	127 38	0 28
		270	Wind 90	1 07	-1 07	0 00	1 49	142 02	-0 95
		300	Wind 60	1 04	-0 90	-0 52	-66 09	119 34	-1 91

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H-29' x300' - Suwannee Valley Tower, FL.	15.32 46 02/13/26
Client	**Designed by**
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Section No	Section Elevation ft	Wind Azimuth °	Directionality	F K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
T15	20 00-0 00	0	Wind Normal	0 81	0 00	-0 81	-5 46	3 92	-2 39
		30	Wind 90	0 75	0 38	-0 65	-3 88	0 15	-1 49
		60	Wind 60	0 74	0 64	-0 37	-1 06	-2 51	-0 26
		90	Wind 90	0 78	0 78	0 00	2 65	-3 85	1 09
		120	Wind Normal	0 82	0 71	0 41	6 74	-3 15	2 13
		150	Wind 90	0 78	0 39	0 67	9 39	0 04	2 77
		180	Wind 60	0 75	0 00	0 75	10 12	3 92	2 39
		210	Wind 90	0 75	-0 38	0 65	9 19	7 70	1 49
		240	Wind Normal	0 81	-0 70	0 40	6 69	10 92	0 26
		270	Wind 90	0 78	-0 78	0 00	2 65	11 69	-1 09
		300	Wind 60	0 75	-0 65	-0 38	-1 11	10 44	-2 13
		330	Wind 90	0 78	-0 39	-0 67	-4 08	7 81	-2 77

Mast Totals - Service

Wind Azimuth °	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 00	-13 68	-1895 53	29 40	-24 75
30	6 39	-11 07	-1535 40	-868 35	-15 84
60	10 88	-6 28	-860 89	-1495 57	-3 26
90	13 11	0 00	19 55	-1800 91	10 51
120	11 77	6 79	961 97	-1602 91	20 88
150	6 56	11 35	1605 36	-886 16	28 11
180	0 00	12 66	1795 66	29 40	24 75
210	-6 39	11 07	1574 51	927 16	15 84
240	-11 76	6 79	969 49	1674 74	3 26
270	-13 11	0 00	19 55	1859 72	-10 51
300	-10 89	-6 29	-853 38	1541 36	-20 88
330	-6 56	-11 35	-1566 25	944 97	-28 11

Discrete Appurtenance Pressures - No Ice $G_H = 0.850$

Description	Aiming Azimuth °	Weight K	$Offset_x$ ft	$Offset_z$ ft	z ft	K_z	q psf	C_AA_C Front ft^2	C_AA_C Side ft^2
21' LRE with 7'-6" lightning rod (arm=11 5')	0 0000	0 15	0 00	-2 89	311 50	1 608	56	6 98	6 98
Beacon	120 0000	0 07	2 50	1 44	301 00	1 596	56	2 40	2 40
Beacon	240 0000	0 07	-2 50	1 44	301 00	1 596	56	2 40	2 40
Marker Interface enclosure	180 0000	0 02	0 00	4 04	150 00	1 378	48	1 17	0 48
OB light	240 0000	0 03	-7 87	4 54	150 00	1 378	48	0 50	0 50
OB light	120 0000	0 03	7 87	4 54	150 00	1 378	48	0 50	0 50
OB light	0 0000	0 03	0 00	-9 08	150 00	1 378	48	0 50	0 50
SC488-HF1SNF	120 0000	0 03	7 70	4 44	307 92	1 604	56	4 39	4 39
SP1 HS6D-K	120 0000	0 39	5 10	2 94	298 00	1 593	56	6 73	10 75
SC488-HF1SNF (Future)	240 0000	0 03	-7 70	4 44	307 92	1 604	56	4 39	4 39
SP1 HS6D-K (Future)	240 0000	0 39	-5 10	2 94	298 00	1 593	56	6 73	10 75
TTA (12"x12"x6")	120 0000	0 03	7 70	4 44	300 00	1 595	56	1 20	0 80
TTA (12"x12"x6") (Future)	240 0000	0 03	-7 70	4 44	300 00	1 595	56	1 20	0 80

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21' LRE with 7'-6" lightning rod (arm=11.5') - Elevation 311 5 From Leg A

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
120	0 17	0 29	0 29	0 17	51 43	-89 84	-0 83
150	0 29	0 17	0 17	0 29	89 40	-51 87	-0 48
180	0 33	0 00	0 00	0 33	103 30	0 00	0 00
210	0 29	0 17	-0 17	0 29	89 40	51 87	0 48
240	0 17	0 29	-0 29	0 17	51 43	89 84	0 83
270	0 00	0 33	-0 33	0 00	-0 44	103 73	0 96
300	0 17	0 29	-0 29	-0 17	-52 30	89 84	0 83
330	0 29	0 17	-0 17	-0 29	-90 27	51 87	0 48

Beacon - Elevation 301 - From Leg B

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 06	0 10	0 00	-0 11	-34 12	-0 18	0 28
30	0 00	0 11	0 06	-0 10	-29 53	-17 29	0 33
60	0 06	0 10	0 10	-0 06	-17 01	-29 82	0 28
90	0 10	0 06	0 11	0 00	0 11	-34 41	0 16
120	0 11	0 00	0 10	0 06	17 22	-29 82	0 00
150	0 10	0 06	0 06	0 10	29 74	-17 29	-0 16
180	0 06	0 10	0 00	0 11	34 33	-0 18	-0 28
210	0 00	0 11	-0 06	0 10	29 74	16 93	-0 33
240	0 06	0 10	-0 10	0 06	17 22	29 46	-0 28
270	0 10	0 06	-0 11	0 00	0 11	34 04	-0 16
300	0 11	0 00	-0 10	-0 06	-17 01	29 46	0 00
330	0 10	0 06	-0 06	-0 10	-29 53	16 93	0 16

Beacon - Elevation 301 From Leg C

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 06	0 10	0 00	-0 11	-34 12	0 18	-0 28
30	0 10	0 06	0 06	-0 10	-29 53	-16 93	-0 16
60	0 11	0 00	0 10	-0 06	-17 01	-29 46	0 00
90	0 10	0 06	0 11	0 00	0 11	-34 04	0 16
120	0 06	0 10	0 10	0 06	17 22	-29 46	0 28
150	0 00	0 11	0 06	0 10	29 74	-16 93	0 33
180	0 06	0 10	0 00	0 11	34 33	0 18	0 28
210	0 10	0 06	-0 06	0 10	29 74	17 29	0 16
240	0 11	0 00	-0 10	0 06	17 22	29 82	0 00
270	0 10	0 06	-0 11	0 00	0 11	34 41	-0 16
300	0 06	0 10	-0 10	-0 06	-17 01	29 82	-0 28
330	0 00	0 11	-0 06	-0 10	-29 53	17 29	-0 33

Marker Interface enclosure - Elevation 150 - From Face C

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 05	0 00	0 00	-0 05	-7 07	0 00	0 00
30	0 04	0 01	0 02	-0 04	-5.21	-3 06	0 08
60	0 02	0 02	0 02	-0 01	-1 92	-3 48	0 09
90	0 00	0 02	0 02	0 00	0 08	-2 97	0 08
120	0 02	0 02	0 02	0 01	2 09	-3 48	0 09
150	0 04	0 01	0 02	0 04	5 38	-3 06	0 08
180	0 05	0 00	0 00	0 05	7 24	0 00	0 00

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OB light - Elevation 150 - From Leg A

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
300	0 01	0 02	-0 02	-0 01	-1 81	2 66	0 16
330	0 02	0 01	-0 01	-0 02	-2 93	1 53	0 09

SC488-HF1SNF Elevation 307 92 From Leg B

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 10	0 18	0 00	-0 21	-64 23	-0 26	1 61
30	0 00	0 21	0 10	-0 18	-55 60	-32 45	1 86
60	0 10	0 18	0 18	-0 10	-32 04	-56 01	1 61
90	0 18	0 10	0 21	0 00	0 15	-64 64	0 93
120	0 21	0 00	0 18	0 10	32 34	-56 01	0 00
150	0 18	0 10	0 10	0 18	55 90	-32 45	-0 93
180	0 10	0 18	0 00	0 21	64 53	-0 26	-1 61
210	0 00	0 21	-0 10	0 18	55 90	31 93	-1 86
240	0 10	0 18	-0 18	0 10	32 34	55 49	-1 61
270	0 18	0 10	-0 21	0 00	0 15	64 12	-0 93
300	0 21	0 00	-0 18	-0 10	-32 04	55 49	0 00
330	0 18	0 10	-0 10	-0 18	-55 60	31 93	0 93

SP1 HS6D-K - Elevation 298 - From Leg B

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 16	0 44	0 00	-0 46	-136 13	-2 00	2 35
30	0 00	0 51	0 25	-0 44	-130 00	-77 72	2 99
60	0 16	0 44	0 40	-0 23	-67 49	-120 89	2 35
90	0 28	0 25	0 37	0 00	1 15	-110 97	1 08
120	0 32	0 00	0 28	0 16	48 56	-84 11	0 00
150	0 28	0 25	0 18	0 32	95 52	-56 48	-1 08
180	0 16	0 44	0 00	0 46	138 44	-2 00	-2 35
210	0 00	0 51	-0.25	0 44	132 31	73 72	-2 99
240	0 16	0 44	-0 40	0 23	69 80	116 90	-2 35
270	0 28	0 25	-0 37	0 00	1 15	106 97	-1 08
300	0 32	0 00	-0 28	-0 16	-46 25	80 11	0 00
330	0 28	0 25	-0 18	-0 32	-93 22	52 49	1 08

SC488 HF1SNF (Future) - Elevation 307 92 From Leg C

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 10	0 18	0 00	-0 21	-64 23	0.26	-1 61
30	0 18	0 10	0 10	-0 18	-55 60	-31 93	-0 93
60	0 21	0 00	0 18	-0 10	-32 04	-55 49	0 00
90	0 18	0 10	0 21	0 00	0 15	-64 12	0 93
120	0 10	0 18	0 18	0 10	32 34	-55 49	1 61
150	0 00	0 21	0 10	0 18	55 90	-31 93	1 86
180	0 10	0 18	0 00	0 21	64 53	0 26	1 61
210	0 18	0 10	-0 10	0 18	55 90	32 45	0 93
240	0 21	0 00	-0 18	0 10	32 34	56 01	0 00
270	0 18	0 10	-0 21	0 00	0 15	64 64	-0 93
300	0 10	0 18	-0 18	-0 10	-32 04	56 01	-1 61
330	0 00	0 21	-0 10	-0 18	-55.60	32 45	-1 86

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DB224-A Elevation 285 625 - From Leg A

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
60	0 13	0 23	0 23	-0 13	-38 25	-65 71	-2 04
90	0 00	0 27	0 27	0 00	-0 31	-75 88	-2 36
120	0 13	0 23	0 23	0 13	37 63	-65 71	-2 04
150	0 23	0 13	0 13	0 23	65 40	-37 94	-1 18
180	0 27	0 00	0 00	0 27	75 57	0 00	0 00
210	0 23	0 13	-0 13	0 23	65 40	37 94	1 18
240	0 13	0 23	-0 23	0 13	37 63	65 71	2 04
270	0 00	0 27	-0 27	0 00	-0 31	75 88	2 36
300	0 13	0 23	-0 23	-0 13	-38 25	65 71	2 04
330	0 23	0 13	-0 13	-0 23	-66 03	37 94	1 18

SP1 HS6D-K - Elevation 273 From Leg A

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 25	0 00	0 00	-0 25	-70 52	0 00	0 00
30	0 22	0 20	0 14	-0 25	-70 21	-39 20	-0 85
60	0 12	0 35	0 31	-0 18	-51 70	-85 54	-1 84
90	0 00	0 40	0 40	0 00	-2 31	-108 96	-2 35
120	0 12	0 35	0 31	0 18	47 08	-85 54	-1 84
150	0 22	0 20	0 14	0 25	65 59	-39 20	-0 85
180	0 25	0 00	0 00	0 25	65 91	0 00	0 00
210	0 22	0 20	-0 14	0 25	65 59	39 20	0 85
240	0 12	0 35	-0 31	0 18	47 08	85 54	1 84
270	0 00	0 40	-0 40	0 00	-2 31	108 96	2 35
300	0 12	0 35	-0 31	-0 18	-51 70	85 54	1 84
330	0 22	0 20	-0 14	-0 25	-70 21	39 20	0 85

SC488-HF1SNF (Future) Elevation 282 92 - From Leg C

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 10	0 18	0 00	-0 21	-57 95	0 26	-1 58
30	0 18	0 10	0 10	-0 18	-50 17	-28 79	-0 91
60	0 21	0 00	0 18	-0 10	-28 90	-50 06	0 00
90	0 18	0 10	0 21	0 00	0 15	-57 84	0 91
120	0 10	0 18	0 18	0 10	29 20	-50 06	1 58
150	0 00	0 21	0 10	0 18	50 47	-28 79	1 83
180	0 10	0 18	0 00	0 21	58 25	0 26	1 58
210	0 18	0 10	-0 10	0 18	50 47	29 31	0 91
240	0 21	0 00	-0 18	0 10	29 20	50 58	0 00
270	0 18	0 10	-0 21	0 00	0 15	58 36	-0 91
300	0 10	0 18	-0 18	-0 10	-28 90	50 58	-1 58
330	0 00	0 21	-0 10	-0 18	-50 17	29 31	-1 83

SP1 HS6D-K (Future) Elevation 273 - From Leg C

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 12	0 35	0 00	-0 36	-97 62	2 00	-1 84
30	0 22	0 20	0 14	-0 25	-66 75	-37 20	-0 85
60	0 25	0 00	0 22	-0 12	-32 95	-57 08	0 00
90	0 22	0 20	0 29	0 00	1 15	-76 40	0 85
120	0 12	0 35	0 31	0 18	50 54	-83 54	1 84

MW Radio Elevation 260 - From Leg A

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
240	0 02	0 01	-0 02	0 01	2 21	4 00	0 05
270	0 00	0 01	-0 01	0 00	-0 10	3 44	0 04
300	0 02	0 01	-0 02	-0 01	-2 41	4 00	0 05
330	0 03	0 01	-0 01	-0 02	-6 15	3 49	0 05

SP1 R5 (Includes 4 5"x72" Pipe) - Elevation 260 - From Leg A

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 13	0 00	0 00	-0 13	-34 50	0 00	0 00
30	0 11	0 07	0 07	-0 12	-30 72	-17 47	-0 23
60	0 07	0 13	0 12	-0 07	-18 83	-31 81	-0 41
90	0 00	0 14	0 14	0 00	-0 46	-37 62	-0 49
120	0 07	0 13	0 12	0 07	17 90	-31 81	-0 41
150	0 11	0 07	0 07	0 12	29 79	-17 47	-0 23
180	0 13	0 00	0 00	0 13	33 57	0 00	0 00
210	0 11	0 07	-0 07	0 12	29 79	17 47	0 23
240	0 07	0 13	-0 12	0 07	17 90	31 81	0 41
270	0 00	0 14	-0 14	0 00	-0 46	37 62	0 49
300	0 07	0 13	-0 12	-0 07	-18 83	31 81	0 41
330	0 11	0 07	-0 07	-0 12	-30 72	17 47	0 23

SC488 HF1SNF (Future) Elevation 257 92 - From Leg B

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 10	0 17	0 00	-0 20	-51 80	-0 26	1 55
30	0 00	0 20	0 10	-0 17	-44 84	-26 23	1 79
60	0 10	0 17	0 17	-0 10	-25 82	-45 25	1 55
90	0 17	0 10	0 20	0 00	0 15	-52 21	0 89
120	0 20	0 00	0 17	0 10	26 12	-45 25	0 00
150	0 17	0 10	0 10	0 17	45 14	-26 23	-0 89
180	0 10	0 17	0 00	0 20	52 10	-0 26	-1 55
210	0 00	0 20	-0 10	0 17	45 14	25 71	-1 79
240	0 10	0 17	-0 17	0 10	26 12	44 73	-1 55
270	0 17	0 10	-0 20	0 00	0 15	51 69	-0 89
300	0 20	0 00	-0 17	-0 10	-25 82	44 73	0 00
330	0 17	0 10	-0 10	-0 17	-44 84	25 71	0 89

SP1 HS6D-K (Future) - Elevation 248 - From Leg B

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 15	0 42	0 00	-0 44	-108 76	-2 00	2 26
30	0 00	0 49	0 24	-0 42	-103 86	-62 63	2 88
60	0 15	0 42	0 38	-0 22	-53 81	-97 19	2 26
90	0 27	0 24	0 35	0 00	1 15	-89 25	1 04
120	0 31	0 00	0 27	0 15	39 11	-67 74	0 00
150	0 27	0 24	0 18	0 30	76 71	-45 62	-1 04
180	0 15	0 42	0 00	0 44	111 07	-2 00	-2.26
210	0 00	0 49	-0 24	0 42	106 16	58 63	-2 88
240	0 15	0 42	-0 38	0 22	56 11	93 19	-2 26
270	0 27	0 24	-0 35	0 00	1 15	85 25	-1 04
300	0 31	0 00	-0 27	-0 15	-36 80	63 74	0 00

SP1 HS6D-K - Elevation 218 - From Leg A							
Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 30	0 00	0 00	-0 30	-67 75	0 00	0 00
30	0 26	0 24	0 17	-0 30	-67 44	-37 32	-1 23
60	0 15	0 41	0 37	-0.22	-49 82	-81 44	-2 67
90	0 00	0 48	0 48	0 00	-2 81	-103 73	-3 41
120	0 15	0 41	0 37	0 22	44 21	-81 44	-2 67
150	0 26	0 24	0 17	0 30	61 83	-37 32	-1.23
180	0 30	0 00	0 00	0 30	62 14	0 00	0 00
210	0 26	0 24	-0 17	0 30	61 83	37 32	1.23
240	0 15	0 41	-0 37	0 22	44 21	81 44	2 67
270	0 00	0 48	-0 48	0 00	-2 81	103 73	3 41
300	0 15	0 41	-0 37	-0 22	-49 82	81 44	2 67
330	0 26	0 24	-0 17	-0 30	-67 44	37 32	1 23

2 1/2" x 8' Sch 40 FACE TIE BACK PIPE - Elevation 218 - From Face C							
Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 10	0 00	0 00	-0 10	-22 10	0 00	0 00
30	0 09	0 05	0 05	-0 09	-19 12	-11 10	0 11
60	0 05	0 09	0 09	-0 05	-11 00	-19 22	0 18
90	0 00	0 10	0 10	0 00	0 10	-22 19	0 21
120	0 05	0 09	0 09	0 05	11 19	-19 22	0 18
150	0 09	0 05	0 05	0 09	19 32	-11 10	0 11
180	0 10	0 00	0 00	0 10	22 29	0 00	0 00
210	0 09	0 05	-0 05	0 09	19 32	11 10	-0 11
240	0 05	0 09	-0 09	0 05	11 19	19 22	-0 18
270	0 00	0 10	-0 10	0 00	0 10	22 19	-0 21
300	0 05	0 09	-0 09	-0 05	-11 00	19 22	-0 18
330	0 09	0 05	-0 05	-0 09	-19 12	11 10	-0 11

2 1/2" x 8' Sch 40 FACE TIE BACK PIPE - Elevation 218 From Face B							
Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 05	0 09	0 00	-0 10	-22 24	-0 08	0 18
30	0 09	0 05	0 05	-0 09	-19 27	-11 18	0 11
60	0 10	0 00	0 09	-0 05	-11 15	-19 30	0 00
90	0 09	0 05	0 10	0 00	-0 05	-22 28	-0 11
120	0 05	0 09	0 09	0 05	11 05	-19 30	-0 18
150	0 00	0 10	0 05	0 09	19 17	-11 18	-0 21
180	0 05	0 09	0 00	0 10	22 15	-0 08	-0 18
210	0 09	0 05	-0 05	0 09	19 17	11 01	-0 11
240	0 10	0 00	-0 09	0 05	11 05	19 14	0 00
270	0 09	0 05	-0 10	0 00	-0 05	22 11	0 11
300	0 05	0 09	-0 09	-0 05	-11 15	19 14	0 18
330	0 00	0 10	-0 05	-0 09	-19 27	11 01	0 21

SP1 R5 (Includes 4 5"x72" Pipe) - Elevation 180 - From Leg B							
Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 06	0 12	0 00	-0 13	-23 06	-0 81	0 78
30	0 00	0 13	0 07	-0 12	-20 41	-12 87	0 92

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Project	**Date**
H-29' x300' - Suwannee Valley Tower, FL.	15 32.46 02/13/26
Client	**Designed by**
Florida Tel-Con, Inc	ES

2-1/2" x 11' Sch 40 FACE TIE BACK PIPE - Elevation 180 - From Face B

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
150	0 00	0 11	0 05	0 09	16 67	-9 86	-0 34
180	0 05	0 09	0 00	0 11	19 26	-0 18	-0 30
210	0 09	0 05	-0 05	0 09	16 67	9 51	-0 17
240	0 11	0 00	-0 09	0 05	9 58	16 59	0 00
270	0 09	0 05	-0 11	0 00	-0 10	19 19	0 17
300	0 05	0 09	-0 09	-0 05	-9 78	16 59	0 30
330	0 00	0 11	-0 05	-0 09	-16 87	9 51	0 34

2 1 2" x 11' Sch 40 FACE TIE BACK PIPE - Elevation 180 From Face A

Wind Azimuth °	F_a K	F_s K	V_x K	V K	OTM_x kip-ft	OTM_- kip-ft	Torque kip-ft
0	0 05	0 09	0 00	-0 11	-19 46	0 18	-0 30
30	0 00	0 11	0 05	-0 09	-16 87	-9 51	-0 34
60	0 05	0 09	0 09	-0 05	-9 78	-16 59	-0 30
90	0 09	0 05	0 11	0 00	-0 10	-19 19	-0 17
120	0 11	0 00	0 09	0 05	9 58	-16 59	0 00
150	0 09	0 05	0 05	0 09	16 67	-9 51	0 17
180	0 05	0 09	0 00	0 11	19 26	0 18	0 30
210	0 00	0 11	-0 05	0 09	16 67	9 86	0 34
240	0 05	0 09	-0 09	0 05	9 58	16 94	0 30
270	0 09	0 05	-0 11	0 00	-0 10	19 54	0 17
300	0 11	0 00	-0 09	-0 05	-9 78	16 94	0 00
330	0 09	0 05	-0 05	-0 09	-16 87	9 86	-0 17

SP1 R5 (Includes 4 5"x72" Pipe) Elevation 170 From Leg A

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 12	0 00	0 00	-0 12	-21 37	0 00	0 00
30	0 10	0 07	0 06	-0 11	-19 11	-10 44	-0 46
60	0 06	0 11	0 11	-0 06	-12 00	-19 02	-0 83
90	0 00	0 13	0 13	0 00	-1 02	-22 49	-0 98
120	0 06	0 11	0 11	0 06	9 96	-19 02	-0 83
150	0 10	0 07	0 06	0 11	17 07	-10 44	-0 46
180	0 12	0 00	0 00	0 12	19 33	0 00	0 00
210	0 10	0 07	-0 06	0 11	17 07	10 44	0 46
240	0 06	0 11	-0 11	0 06	9 96	19 02	0 83
270	0 00	0 13	-0 13	0 00	-1 02	22 49	0 98
300	0 06	0 11	-0 11	-0 06	-12 00	19 02	0 83
330	0 10	0 07	-0 06	-0 11	-19 11	10 44	0 46

SP1 R5 (Includes 4 5"x72" Pipe) Elevation 170 - From Leg B

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 06	0 11	0 00	-0 13	-21 45	-0 88	0 83
30	0 00	0 13	0 07	-0 11	-18 97	-12 13	0 98
60	0 06	0 11	0 11	-0 06	-10 47	-19 90	0 83
90	0 10	0 07	0 12	0 00	0 51	-21 77	0 46
120	0 12	0 00	0 10	0 06	10 68	-18 51	0 00
150	0 10	0 07	0 06	0 11	18 60	-11 33	-0 46
180	0 06	0 11	0 00	0 13	22 47	-0 88	-0 83
210	0 00	0 13	-0 07	0 11	19 99	10 37	-0 98

SP1 R5 (Includes 4 5"x72" Pipe) - Elevation 145 - From Leg B

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
330	0 10	0 06	-0 06	-0 10	-14 31	7 56	0 53

SP1 R5 (Includes 4 5"x72" Pipe) Elevation 145 - From Leg C

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 06	0 11	0 00	-0 12	-17 50	1 05	-0 96
30	0 10	0 06	0 06	-0 10	-14 31	-7 56	-0 53
60	0 12	0 00	0 10	-0 06	-7 79	-13 49	0 00
90	0 10	0 06	0 12	0 00	0 61	-16 18	0 53
120	0 06	0 11	0 11	0 06	9 66	-14 63	0 96
150	0 00	0 13	0 06	0 11	16 68	-8 22	1 14
180	0 06	0 11	0 00	0 12	18 72	1 05	0 96
210	0 10	0 06	-0 06	0 10	15 53	9 67	0 53
240	0 12	0 00	-0 10	0 06	9 00	15 59	0 00
270	0 10	0 06	-0 12	0 00	0 61	18 28	-0 53
300	0 06	0 11	-0 11	-0 06	-8 45	16 74	-0 96
330	0 00	0 13	-0 06	-0 11	-15 46	10 33	-1 14

2-1 2" x 15' Sch 40 FACE TIE BACK PIPE - Elevation 145 From Face C

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 14	0 00	0 00	-0 14	-19 96	0 00	0 00
30	0 12	0 07	0 07	-0 12	-17 23	-10 16	0 29
60	0 07	0 12	0 12	-0 07	-9 80	-17 60	0 51
90	0 00	0 14	0 14	0 00	0 36	-20 32	0 59
120	0 07	0 12	0 12	0 07	10 52	-17 60	0 51
150	0 12	0 07	0 07	0 12	17 96	-10 16	0 29
180	0 14	0 00	0 00	0 14	20 69	0 00	0 00
210	0 12	0 07	-0 07	0 12	17 96	10 16	-0 29
240	0 07	0 12	-0 12	0 07	10 52	17 60	-0 51
270	0 00	0 14	-0 14	0 00	0 36	20 32	-0 59
300	0 07	0 12	-0 12	-0 07	-9 80	17 60	-0 51
330	0 12	0 07	-0 07	-0 12	-17 23	10 16	-0 29

2 1/2" x 15' Sch 40 FACE TIE BACK PIPE - Elevation 145 From Face B

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 07	0 12	0 00	-0 14	-20 50	-0 32	0 51
30	0 12	0 07	0 07	-0 12	-17 78	-10 48	0 29
60	0 14	0 00	0 12	-0 07	-10 34	-17 91	0 00
90	0 12	0 07	0 14	0 00	-0 18	-20 64	-0 29
120	0 07	0 12	0 12	0 07	9 98	-17 91	-0 51
150	0 00	0 14	0 07	0 12	17 42	-10 48	-0 59
180	0 07	0 12	0 00	0 14	20 14	-0 32	-0 51
210	0 12	0 07	-0 07	0 12	17 42	9 85	-0 29
240	0 14	0 00	-0 12	0 07	9 98	17 28	0 00
270	0 12	0 07	-0 14	0 00	-0 18	20 01	0.29
300	0 07	0 12	-0 12	-0 07	-10 34	17 28	0 51
330	0 00	0 14	-0 07	-0 12	-17 78	9 85	0 59

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Project	**Date**
H-29' x300' - Suwannee Valley Tower, FL.	15 32 46 02/13/26
Client	**Designed by**
Florida Tel-Con, Inc	ES

Description	*Aiming Azimuth* °	*Weight* *K*	*Offset$_x$* *ft*	*Offset$_z$* *ft*	*z* *ft*	*K_z*	*q_z* *psf*	*C_AA_C Front* *ft²*	*C_AA_C Side* *ft²*
TTA (12"x12"x6") (Future)	240 0000	0 03	-7 70	4 44	300 00	1 595	12	1 20	0 80
DB224-A	0 0000	0 04	0 00	-8 89	285 63	1 579	12	5 67	5 67
SP1 HS6D-K	0 0000	0 39	0 00	-5 89	273 00	1 564	12	6 73	10 75
SC488-HF1SNF (Future)	240 0000	0 03	-7 70	4 44	282 92	1 575	12	4 39	4 39
SP1 HS6D-K (Future)	240 0000	0 39	-5 10	2 94	273 00	1 564	12	6 73	10 75
SC488-HF1SNF (Future)	120 0000	0 03	7 70	4 44	282 92	1 575	12	4 39	4 39
SP1 HS6D-K (Future)	120 0000	0 39	5 10	2 94	273 00	1 564	12	6 73	10 75
MW Radio	0 0000	0 03	0 00	-3 39	260 00	1 548	12	0 68	0 29
SP1 R5 (Includes 4 5"x72" Pipe)	0 0000	0 14	0 00	-3 39	260 00	1 548	12	2 85	3 15
SC488-HF1SNF (Future)	120 0000	0 03	7 70	4 44	257 92	1 545	12	4 39	4 39
SP1 HS6D-K (Future)	120 0000	0 39	5 10	2 94	248 00	1 532	12	6 73	10 75
SC488-HF1SNF (Future)	240 0000	0 03	-7 70	4 44	257 92	1 545	12	4 39	4 39
SP1 HS6D-K (Future)	240 0000	0 39	-5 10	2 94	248 00	1 532	12	6 73	10 75
DB224-A	0 0000	0 04	0 00	-10 04	230 63	1 509	12	5 67	5 67
SP1 HS6D-K	0 0000	0 39	0 00	-7 16	218 00	1 491	12	6 73	10 75
2-1/2" x 8' Sch 40 FACE TIE BACK PIPE	180 0000	0 05	0 00	2 08	218 00	1 491	12	2 30	2 30
2-1/2" x 8' Sch 40 FACE TIE BACK PIPE	60 0000	0 05	1 80	-1 04	218 00	1 491	12	2 30	2 30
SP1 R5 (Includes 4 5"x72" Pipe)	120 0000	0 14	5 93	3 43	180 00	1 432	11	2 85	3 15
SP1 R5 (Includes 4 5"x72" Pipe)	240 0000	0 14	-5 93	3 43	180 00	1 432	11	2 85	3 15
2-1/2" x 11' Sch 40 FACE TIE BACK PIPE	180 0000	0 06	0 00	3 18	180 00	1 432	11	3 16	3 16
2-1/2" x 11' Sch 40 FACE TIE BACK PIPE	60 0000	0 06	2 75	-1 59	180 00	1 432	11	3 16	3 16
2-1/2" x 11' Sch. 40 FACE TIE BACK PIPE	300 0000	0 06	-2 75	-1 59	180 00	1 432	11	3 16	3 16
SP1 R5 (Includes 4 5"x72" Pipe)	0 0000	0 14	0 00	-7 43	170 00	1 415	11	2 85	3 15
SP1 R5 (Includes 4 5"x72" Pipe)	120 0000	0 14	6 43	3 71	170 00	1 415	11	2 85	3 15
MW Radio	0 0000	0 03	0 00	-7 43	170 00	1 415	11	0 68	0 29
MW Radio	120 0000	0 03	6 43	3 71	170 00	1 415	11	0 68	0 29
SP1 R5 (Includes 4 5"x72" Pipe)	120 0000	0 14	7 68	4 44	145 00	1 369	11	2 85	3 15
SP1 R5 (Includes 4 5"x72" Pipe)	240 0000	0 14	-7 68	4 44	145 00	1 369	11	2 85	3 15
2-1/2" x 15' Sch. 40 FACE TIE BACK PIPE	180 0000	0 09	0 00	4 19	145 00	1 369	11	4 31	4 31
2-1/2" x 15' Sch. 40 FACE TIE BACK PIPE	60 0000	0 09	3 62	-2 09	145 00	1 369	11	4 31	4 31
2-1/2" x 15' Sch. 40 FACE TIE BACK PIPE	300 0000	0 09	-3 62	-2 09	145 00	1 369	11	4 31	4 31
	Sum Weight	5 47							

Discrete Appurtenance Vectors - Service

21' LRE with 7'-6" lightning rod (arm 11 5') Elevation 311 5 - From Leg A

Wind Azimuth °	*F_a* *K*	*F_s* *K*	*V_x* *K*	*V_z* *K*	*OTM_x* *kip-ft*	*OTM_z* *kip-ft*	*Torque* *kip-ft*
0	0 07	0 00	0 00	-0 07	-23 59	0 00	0 00
30	0 06	0 04	0 04	-0 06	-20 49	-11 58	-0 11

Marker Interface enclosure - Elevation 150 - From Face C

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
150	0 01	0 00	0 00	0 01	1 27	-0 68	0 02
180	0 01	0 00	0 00	0 01	1 68	0 00	0 00
210	0 01	0 00	-0 00	0 01	1.27	0 68	-0 02
240	0 01	0 00	-0 01	0 00	0 53	0 78	-0 02
270	0 00	0 00	-0 00	0 00	0 08	0 66	-0 02
300	0 01	0 00	-0 01	-0 00	-0 36	0 78	-0 02
330	0 01	0 00	-0 00	-0 01	-1 10	0 68	-0 02

OB light - Elevation 150 From Leg C

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 00	0 00	0 00	-0 00	-0 55	0 24	-0 04
30	0 00	0 00	0 00	-0 00	-0 46	-0 11	-0 02
60	0 00	0 00	0 00	-0 00	-0 21	-0 36	0 00
90	0 00	0 00	0 00	0 00	0 14	-0 45	0 02
120	0 00	0 00	0 00	0 00	0 48	-0 36	0 04
150	0 00	0 00	0 00	0 00	0 73	-0 11	0 04
180	0 00	0 00	0 00	0 00	0 82	0 24	0 04
210	0 00	0 00	-0 00	0 00	0 73	0 58	0 02
240	0 00	0 00	-0 00	0 00	0 48	0 83	0 00
270	0 00	0 00	-0 00	0 00	0 14	0 92	-0 02
300	0 00	0 00	-0 00	-0 00	-0 21	0 83	-0 04
330	0 00	0 00	-0 00	-0 00	-0 46	0 58	-0 04

OB light - Elevation 150 From Leg B

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 00	0 00	0 00	-0 00	-0 55	-0 24	0 04
30	0 00	0 00	0 00	-0 00	-0 46	-0 58	0 04
60	0 00	0 00	0 00	-0 00	-0 21	-0 83	0 04
90	0 00	0 00	0 00	0 00	0 14	-0 92	0 02
120	0 00	0 00	0 00	0 00	0 48	-0 83	0 00
150	0 00	0 00	0 00	0 00	0 73	-0 58	-0 02
180	0 00	0 00	0 00	0 00	0 82	-0 24	-0 04
210	0 00	0 00	-0 00	0 00	0 73	0 11	-0 04
240	0 00	0 00	-0 00	0 00	0 48	0 36	-0 04
270	0 00	0 00	-0 00	0 00	0 14	0 45	-0 02
300	0 00	0 00	-0 00	-0 00	-0 21	0 36	0 00
330	0 00	0 00	-0 00	-0 00	-0 46	0 11	0 02

OB light - Elevation 150 - From Leg A

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 00	0 00	0 00	-0 00	-0 96	0 00	0 00
30	0 00	0 00	0 00	-0 00	-0 87	-0 34	-0 02
60	0 00	0 00	0 00	-0 00	-0 61	-0 59	-0 04
90	0 00	0 00	0 00	0 00	-0 27	-0 68	-0 04
120	0 00	0 00	0 00	0 00	0 07	-0 59	-0 04
150	0 00	0 00	0 00	0 00	0 32	-0 34	-0 02
180	0 00	0 00	0 00	0 00	0 41	0 00	0 00
210	0 00	0 00	-0 00	0 00	0 32	0 34	0 02

SC488 HF1SNF (Future) - Elevation 307 92 - From Leg C

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
330	0 00	0 05	-0 02	-0 04	-12 29	7 44	-0 41

SP1 HS6D-K (Future) Elevation 298 From Leg C

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 04	0 10	0 00	-0 10	-29 49	2 00	-0 52
30	0 06	0 06	0 04	-0 07	-19 91	-10 16	-0 24
60	0 07	0 00	0 06	-0 04	-9 43	-16 33	0 00
90	0 06	0 06	0 08	0 00	1 15	-22 32	0 24
120	0 04	0 10	0 09	0 05	16 48	-24 54	0 52
150	0 00	0 11	0 06	0 10	30 43	-14 90	0 67
180	0 04	0 10	0 00	0 10	31 80	2 00	0 52
210	0 06	0 06	-0 04	0 07	22 22	14 16	0 24
240	0 07	0 00	-0 06	0 04	11 73	20 33	0 00
270	0 06	0 06	-0 08	0 00	1 15	26 32	-0.24
300	0 04	0 10	-0 09	-0 05	-14 17	28 54	-0 52
330	0 00	0 11	-0 06	-0 10	-28 12	18 90	-0 67

TTA (12"x12"x6") Elevation 300 - From Leg B

Wind Azimuth °	F_a K	F_s K	V_x K	V K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 01	0 01	0 00	-0 01	-2 72	-0 23	0 07
30	0 00	0 01	0 00	-0 01	-2 06	-1 50	0 08
60	0 01	0 01	0 01	-0 00	-1 29	-2 70	0 07
90	0 01	0 00	0 01	0 00	0 13	-3 72	0 05
120	0 01	0 00	0 01	0 01	2 04	-3 53	0 00
150	0 01	0 00	0 01	0 01	3 15	-1 97	-0 05
180	0 01	0 01	0 00	0 01	2 99	-0 23	-0 07
210	0 00	0 01	-0 00	0 01	2 33	1 04	-0 08
240	0 01	0 01	-0 01	0 00	1 56	2 24	-0 07
270	0 01	0 00	-0 01	0 00	0 13	3 26	-0 05
300	0 01	0 00	-0 01	-0 01	-1 77	3 06	0 00
330	0 01	0 00	-0 01	-0 01	-2 89	1 51	0 05

TTA (12"x12"x6") (Future) Elevation 300 From Leg C

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 01	0 01	0 00	-0 01	-2 72	0.23	-0 07
30	0 01	0 00	0 01	-0 01	-2 89	-1 51	-0 05
60	0 01	0 00	0 01	-0 01	-1 77	-3 06	0 00
90	0 01	0 00	0 01	0 00	0 13	-3 26	0 05
120	0 01	0 01	0 01	0 00	1 56	-2.24	0 07
150	0 00	0 01	0 00	0 01	2 33	-1 04	0 08
180	0 01	0 01	0 00	0 01	2 99	0 23	0 07
210	0 01	0 00	-0 01	0 01	3 15	1 97	0 05
240	0 01	0 00	-0 01	0 01	2 04	3 53	0 00
270	0 01	0 00	-0 01	0 00	0 13	3 72	-0 05
300	0 01	0 01	-0 01	-0 00	-1 29	2 70	-0 07
330	0 00	0 01	-0 00	-0 01	-2 06	1 50	-0 08

SP1 HS6D-K (Future) - Elevation 273 - From Leg C

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
60	0 06	0 00	0 05	-0 03	-6 46	-11 19	0 00
90	0 05	0 04	0 06	0 00	1 15	-15 50	0 19
120	0 03	0 08	0 07	0 04	12 18	-17 09	0 41
150	0 00	0 09	0 04	0 08	22 22	-10 16	0 52
180	0 03	0 08	0 00	0 08	23 20	2 00	0 41
210	0 05	0 04	-0 03	0 06	16 31	10 75	0 19
240	0 06	0 00	-0 05	0 03	8 77	15 18	0 00
270	0 05	0 04	-0 06	0 00	1 15	19 50	-0 19
300	0 03	0 08	-0 07	-0 04	-9 87	21 09	-0 41
330	0 00	0 09	-0 04	-0 08	-19 91	14 16	-0 52

SC488-HF1SNF (Future) Elevation 282 92 From Leg B

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 02	0 04	0 00	-0 05	-12 82	-0.26	0 35
30	0 00	0 05	0 02	-0 04	-11 08	-6 74	0 41
60	0 02	0 04	0 04	-0 02	-6 33	-11 49	0 35
90	0 04	0 02	0 05	0 00	0 15	-13 23	0 20
120	0 05	0 00	0 04	0 02	6 63	-11 49	0 00
150	0 04	0 02	0 02	0 04	11 38	-6 74	-0 20
180	0 02	0 04	0 00	0 05	13 12	-0 26	-0 35
210	0 00	0 05	-0 02	0 04	11 38	6 22	-0 41
240	0 02	0 04	-0 04	0 02	6 63	10 97	-0 35
270	0 04	0 02	-0 05	0 00	0 15	12 71	-0 20
300	0 05	0 00	-0 04	-0 02	-6 33	10 97	0 00
330	0 04	0 02	-0 02	-0 04	-11 08	6 22	0 20

SP1 HS6D-K (Future) Elevation 273 From Leg B

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 03	0 08	0 00	-0 08	-20 89	-2 00	0 41
30	0 00	0 09	0 04	-0 08	-19 91	-14 16	0 52
60	0 03	0 08	0 07	-0 04	-9 87	-21 09	0 41
90	0 05	0 04	0 06	0 00	1 15	-19 50	0 19
120	0 06	0 00	0 05	0 03	8 77	-15 18	0 00
150	0 05	0 04	0 03	0 06	16 31	-10 75	-0 19
180	0 03	0 08	0 00	0 08	23 20	-2 00	-0 41
210	0 00	0 09	-0 04	0 08	22 22	10 16	-0 52
240	0 03	0 08	-0 07	0 04	12 18	17 09	-0 41
270	0 05	0 04	-0 06	0 00	1 15	15 50	-0 19
300	0 06	0 00	-0 05	-0 03	-6 46	11 19	0 00
330	0 05	0 04	-0 03	-0 06	-14 00	6 75	0 19

MW Radio - Elevation 260 From Leg A

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 01	0 00	0 00	-0 01	-1 93	0 00	0 00
30	0 01	0 00	0 00	-0 01	-1 45	-0 78	-0 01
60	0 00	0 00	0 00	-0 00	-0 62	-0 89	-0 01
90	0 00	0 00	0 00	0 00	-0 10	-0 77	-0 01
120	0 00	0 00	0 00	0 00	0 41	-0 89	-0 01

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SP1 HS6D-K (Future) Elevation 248 - From Leg B

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
240	0 03	0 09	-0 09	0 05	13 42	19 25	-0 50
270	0 06	0 05	-0 08	0 00	1 15	17 48	-0 23
300	0 07	0 00	-0 06	-0 03	-7 32	12 67	0 00
330	0 06	0 05	-0 04	-0 07	-15 71	7 74	0 23

SC488-HF1SNF (Future) Elevation 257 92 - From Leg C

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 02	0 04	0 00	-0 04	-11 44	0 26	-0 35
30	0 04	0 02	0 02	-0 04	-9 89	-5 54	-0 20
60	0 04	0 00	0 04	-0 02	-5 65	-9 78	0 00
90	0 04	0 02	0 04	0 00	0 15	-11 33	0 20
120	0 02	0 04	0 04	0 02	5 95	-9 78	0 35
150	0 00	0 04	0 02	0 04	10 19	-5 54	0 40
180	0 02	0 04	0 00	0 04	11 75	0 26	0 35
210	0 04	0 02	-0 02	0 04	10 19	6 06	0 20
240	0 04	0 00	-0 04	0 02	5 95	10 30	0 00
270	0 04	0 02	-0 04	0 00	0 15	11 85	-0.20
300	0 02	0 04	-0 04	-0 02	-5 65	10 30	-0 35
330	0 00	0 04	-0 02	-0 04	-9 89	6 06	-0 40

SP1 HS6D-K (Future) - Elevation 248 From Leg C

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 03	0 09	0 00	-0 10	-23 38	2 00	-0 50
30	0 06	0 05	0 04	-0 07	-15 71	-7 74	-0 23
60	0 07	0 00	0 06	-0 03	-7 32	-12 67	0 00
90	0 06	0 05	0 08	0 00	1 15	-17 48	0 23
120	0 03	0 09	0 09	0 05	13 42	-19 25	0 50
150	0 00	0 11	0 05	0 09	24 59	-11 53	0 64
180	0 03	0 09	0 00	0 10	25 69	2 00	0 50
210	0 06	0 05	-0 04	0 07	18 02	11 74	0 23
240	0 07	0 00	-0 06	0 03	9 63	16 67	0 00
270	0 06	0 05	-0 08	0 00	1 15	21 47	-0 23
300	0 03	0 09	-0 09	-0 05	-11 11	23 25	-0 50
330	0 00	0 11	-0 05	-0 09	-22 28	15 53	-0 64

DB224-A - Elevation 230.625 - From Leg A

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 06	0 00	0 00	-0 06	-13 42	0 00	0 00
30	0 05	0 03	0 03	-0 05	-11 67	-6 54	-0 28
60	0 03	0 05	0 05	-0 03	-6 89	-11 32	-0 49
90	0 00	0 06	0 06	0 00	-0 35	-13 07	-0 57
120	0 03	0 05	0 05	0 03	6 19	-11 32	-0 49
150	0 05	0 03	0 03	0 05	10 97	-6 54	-0 28
180	0 06	0 00	0 00	0 06	12 72	0 00	0 00
210	0 05	0 03	-0 03	0 05	10 97	6 54	0 28
240	0 03	0 05	-0 05	0 03	6 19	11 32	0 49
270	0 00	0 06	-0 06	0 00	-0 35	13 07	0 57
300	0 03	0 05	-0 05	-0 03	-6 89	11 32	0 49

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	Florida Tel-Con, Inc	ES

SP1 R5 (Includes 4 5"x72" Pipe) - Elevation 180 - From Leg B

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 01	0 03	0 00	-0 03	-4 78	-0 81	0 17
30	0 00	0 03	0 01	-0 03	-4 19	-3 50	0 20
60	0 01	0 03	0 03	-0 01	-2 16	-5 36	0 17
90	0 02	0 01	0 03	0 00	0 47	-5 81	0 10
120	0 03	0 00	0 02	0 01	2 90	-5 03	0 00
150	0 02	0 01	0 01	0 02	4 80	-3 31	-0 10
180	0 01	0 03	0 00	0 03	5 72	-0 81	-0 17
210	0 00	0 03	-0 01	0 03	5 13	1 88	-0 20
240	0 01	0 03	-0 03	0 01	3 10	3 74	-0 17
270	0 02	0 01	-0 03	0 00	0 47	4 18	-0 10
300	0 03	0 00	-0 02	-0 01	-1 96	3 40	0 00
330	0 02	0 01	-0 01	-0 02	-3 86	1 69	0 10

SP1 R5 (Includes 4 5"x72" Pipe) Elevation 180 - From Leg C

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 01	0 03	0 00	-0 03	-4 78	0 81	-0 17
30	0 02	0 01	0 01	-0 02	-3 86	-1 69	-0 10
60	0 03	0 00	0 02	-0 01	-1 96	-3 40	0 00
90	0 02	0 01	0 03	0 00	0 47	-4 18	0 10
120	0 01	0 03	0 03	0 01	3 10	-3 74	0 17
150	0 00	0 03	0 01	0 03	5 13	-1 88	0 20
180	0 01	0 03	0 00	0 03	5 72	0 81	0 17
210	0 02	0 01	-0 01	0 02	4 80	3 31	0 10
240	0 03	0 00	-0 02	0 01	2 90	5 03	0 00
270	0 02	0 01	-0 03	0 00	0 47	5 81	-0 10
300	0 01	0 03	-0 03	-0 01	-2 16	5 36	-0 17
330	0 00	0 03	-0 01	-0 03	-4 19	3 50	-0 20

2 1'2" x 11' Sch 40 FACE TIE BACK PIPE - Elevation 180 From Face C

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 02	0 00	0 00	-0 02	-4 12	0 00	0 00
30	0 02	0 01	0 01	-0 02	-3 54	-2 16	0 04
60	0 01	0 02	0 02	-0 01	-1 96	-3 74	0 07
90	0 00	0 02	0 02	0 00	0 20	-4 32	0 08
120	0 01	0 02	0 02	0 01	2 36	-3 74	0 07
150	0 02	0 01	0 01	0 02	3 95	-2 16	0 04
180	0 02	0 00	0 00	0 02	4 52	0 00	0 00
210	0 02	0 01	-0 01	0 02	3 95	2 16	-0 04
240	0 01	0 02	-0 02	0 01	2 36	3 74	-0 07
270	0 00	0 02	-0 02	0 00	0 20	4 32	-0 08
300	0 01	0 02	-0 02	-0 01	-1 96	3 74	-0 07
330	0 02	0 01	-0 01	-0 02	-3 54	2 16	-0 04

2-1 2" x 11' Sch 40 FACE TIE BACK PIPE - Elevation 180 - From Face B

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 01	0 02	0 00	-0 02	-4.42	-0 18	0 07
30	0 02	0 01	0 01	-0 02	-3 84	-2 34	0 04

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SP1 R5 (Includes 4 5"x72" Pipe) - Elevation 170 - From Leg B

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
150	0 02	0 01	0 01	0 02	4 55	-3 21	-0 10
180	0 01	0 03	0 00	0 03	5 41	-0 88	-0 19
210	0 00	0 03	-0 01	0 03	4 86	1 63	-0 22
240	0 01	0 03	-0 02	0 01	2 96	3 36	-0 19
270	0 02	0 01	-0 03	0 00	0 51	3 78	-0 10
300	0 03	0 00	-0 02	-0 01	-1 76	3 05	0 00
330	0 02	0 01	-0 01	-0 02	-3 53	1 45	0 10

MW Radio - Elevation 170 - From Leg A

Wind Azimuth °	F_a K	F_s K	V_x K	V K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 01	0 00	0 00	-0 01	-1 31	0 00	0 00
30	0 01	0 00	0 00	-0 00	-1 03	-0 47	-0 02
60	0 00	0 00	0 00	-0 00	-0 53	-0 53	-0 02
90	0 00	0 00	0 00	0 00	-0 22	-0 46	-0 02
120	0 00	0 00	0 00	0 00	0 09	-0 53	-0 02
150	0 01	0 00	0 00	0 00	0 58	-0 47	-0 02
180	0 01	0 00	0 00	0 01	0 87	0 00	0 00
210	0 01	0 00	-0 00	0 00	0 58	0 47	0 02
240	0 00	0 00	-0 00	0 00	0 09	0 53	0 02
270	0 00	0 00	-0 00	0 00	-0 22	0 46	0 02
300	0 00	0 00	-0 00	-0 00	-0 53	0 53	0 02
330	0 01	0 00	-0 00	-0 00	-1 03	0 47	0 02

MW Radio - Elevation 170 - From Leg B

Wind Azimuth °	F_a K	F_s K	V_x K	V K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 00	0 00	0 00	-0 00	-0 51	-0 19	0 02
30	0 00	0 00	0 00	-0 00	-0 29	-0 42	0 02
60	0 00	0 00	0 00	-0 00	-0.20	-0 73	0 02
90	0 01	0 00	0 01	0 00	0 11	-1 13	0 02
120	0 01	0 00	0 01	0 00	0 66	-1 14	0 00
150	0 01	0 00	0 00	0 00	0 92	-0 66	-0 02
180	0 00	0 00	0 00	0 00	0 73	-0 19	-0 02
210	0 00	0 00	-0 00	0 00	0 51	0 04	-0 02
240	0 00	0 00	-0 00	0 00	0 42	0 34	-0 02
270	0 01	0 00	-0 01	0 00	0 11	0 74	-0 02
300	0 01	0 00	-0 01	-0 00	-0 43	0 75	0 00
330	0 01	0 00	-0 00	-0 00	-0 70	0 27	0 02

SP1 R5 (Includes 4 5"x72" Pipe) - Elevation 145 - From Leg B

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 01	0 02	0 00	-0 03	-3 44	-1 05	0 21
30	0 00	0 03	0 01	-0 02	-2 98	-3 12	0 25
60	0 01	0 02	0 02	-0 01	-1 41	-4 55	0 21
90	0 02	0 01	0 03	0 00	0 61	-4 90	0 12
120	0 03	0 00	0 02	0 01	2 48	-4 30	0 00
150	0 02	0 01	0 01	0 02	3 94	-2 98	-0 12
180	0 01	0 02	0 00	0 03	4 65	-1 05	-0 21
210	0 00	0 03	-0 01	0 02	4 19	1 02	-0 25

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2-1/2" x 15' Sch 40 FACE TIE BACK PIPE - Elevation 145 From Face B

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
330	0 00	0 03	-0 02	-0 03	-4 11	1 95	0 13

2-1 2" x 15' Sch 40 FACE TIE BACK PIPE - Elevation 145 From Face A

Wind Azimuth °	F_a K	F_s K	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 02	0 03	0 00	-0 03	-4 72	0 32	-0 11
30	0 00	0 03	0 02	-0 03	-4 11	-1 95	-0 13
60	0 02	0 03	0 03	-0 02	-2 45	-3 61	-0 11
90	0 03	0 02	0 03	0 00	-0 18	-4 22	-0 07
120	0 03	0 00	0 03	0 02	2 09	-3 61	0 00
150	0 03	0 02	0 02	0 03	3 75	-1 95	0 07
180	0 02	0 03	0 00	0 03	4 35	0 32	0 11
210	0 00	0 03	-0 02	0 03	3 75	2 58	0 13
240	0 02	0 03	-0 03	0 02	2 09	4 24	0 11
270	0 03	0 02	-0 03	0 00	-0 18	4 85	0 07
300	0 03	0 00	-0 03	-0 02	-2 45	4 24	0 00
330	0 03	0 02	-0 02	-0 03	-4 11	2 58	-0 07

Discrete Appurtenance Totals - Service

Wind Azimuth °	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 00	-1 67	-412 28	-1 16	0 25
30	0 83	-1 44	-353 32	-206 99	1 10
60	1 42	-0 82	-198 89	-351 17	0 84
90	1 62	0 00	3 19	-401 62	0 35
120	1 42	0 82	205 33	-351 27	0 59
150	0 83	1 44	359 80	-207 05	0 66
180	0 00	1 67	418 66	-1 16	-0 25
210	-0 83	1 44	359 70	204 67	-1 10
240	-1 42	0 82	205 27	348 85	-0 84
270	-1 62	0 00	3 19	399 30	-0 35
300	-1 42	-0 82	-198 95	348 95	-0 59
330	-0 83	-1 44	-353 42	204 73	-0 66

Dish Pressures - No Ice

Elevation ft	Dish Description	Aiming Azimuth °	Weight K	$Offset_x$ ft	$Offset_z$ ft	K_z	A_A ft^2	q_z psf
260 00	SPD2-5 2 w/ Radome	0 0000	0 03	0 00	-3 39	1 548	3 60	54
180 00	HP6-65	240 0000	0 25	-5 93	3 43	1 432	32 76	50
180 00	HP6-65	120 0000	0 25	5 93	3 43	1 432	32 76	50
170 00	SPD2-5 2 w/ Radome	0 0000	0 03	0 00	-7 43	1 415	3 60	49
170 00	SPD2-5 2 w/ Radome	120 0000	0 03	6 43	3 71	1 415	3 60	49
145 00	HP6-65	240 0000	0 25	-7 68	4.44	1 369	32 76	48
145 00	HP6-65	120 0000	0 25	7 68	4 44	1 369	32 76	48

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Wind Azimuth °	C_A	C_S	C_M	F_A K	F_S K	F_M kip-ft	V_x K	V K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	-0 001770	0 000000	0 000000	-0 10	0 00	0 00	0 00	-0 10	-18 00	0 00	0 00
30	-0 001330	-0 000700	-0 000132	-0 08	-0 04	-0 02	0 04	-0 08	-13 58	-7 03	-0 32
60	-0 000420	-0 000890	-0 000404	-0 02	-0 05	-0 05	0 05	-0 02	-4 44	-8 94	-0 44
90	0 000340	-0 001040	-0 000390	0 02	-0 06	-0 05	0 06	0 02	3 19	-10 44	-0 51
120	0 001070	-0 001280	0 000002	0 06	-0 08	0 00	0 08	0 06	10 52	-12 85	-0 56
150	0 001950	-0 001050	0 000277	0 12	-0 06	0 04	0 06	0 12	19 36	-10 54	-0 43
180	0 002210	0 000000	0 000000	0 13	0 00	0 00	0 00	0 13	21 97	0 00	0 00
210	0 001950	0 001050	-0 000277	0 12	0 06	-0 04	-0 06	0 12	19 36	10 54	0 43
240	0 001070	0 001280	-0 000002	0 06	0 08	-0 00	-0 08	0 06	10 52	12 85	0 56
270	0 000340	0 001040	0 000390	0 02	0 06	0 05	-0 06	0 02	3 19	10 44	0 51
300	-0 000420	0 000890	0 000404	-0 02	0 05	0 05	-0 05	-0 02	-4 44	8 94	0 44
330	-0 001330	0 000700	0 000132	-0 08	0 04	0 02	-0 04	-0 08	-13 58	7 03	0.32

SPD2 5 2 w Radome - Elevation 170 From Leg B

Wind Azimuth °	C_A	C_S	C_M	F_A K	F_S K	F_M kip-ft	V_x K	V K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 001070	0 001280	-0 000002	0 06	0 08	-0 00	-0 02	-0 10	-16 39	2.69	0 56
30	0 000340	0 001040	0 000390	0 02	0 06	0 05	0 01	-0 06	-10 64	-2 46	0 51
60	-0 000420	0 000890	0 000404	-0 02	0 05	0 05	0 05	-0 03	-5 52	-8.31	0 44
90	-0 001330	0 000700	0 000132	-0 08	0 04	0 02	0 09	0 00	0 70	-15 27	0 32
120	-0 001770	0 000000	0 000000	-0 10	0 00	0 00	0 09	0 05	9 00	-15 59	0 00
150	-0 001330	-0 000700	-0 000132	-0 08	-0 04	-0 02	0 05	0 08	12 88	-8 24	-0 32
180	-0 000420	-0 000890	-0 000404	-0 02	-0 05	-0 05	-0 00	0 06	9 96	0 62	-0 44
210	0 000340	-0 001040	-0 000390	0 02	-0 06	-0 05	-0 05	0 04	7 45	7 99	-0 51
240	0 001070	-0 001280	0 000002	0 06	-0 08	0 00	-0 09	0 03	5 87	15 54	-0 56
270	0 001950	-0 001050	0 000277	0 12	-0 06	0 04	-0 13	-0 00	-0 55	22 04	-0 43
300	0 002210	0 000000	0 000000	0 13	0 00	0 00	-0 11	-0 07	-10 99	19 03	0 00
330	0 001950	0 001050	-0 000277	0 12	0 06	-0 04	-0 07	-0 11	-18 81	11 49	0 43

HP6-65 Elevation 145 - From Leg C

Wind Azimuth °	C_A	C_S	C_M	F_A K	F_S K	F_M kip-ft	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 002420	-0 000940	0 000022	1 26	-0 49	0 07	0 85	-1 05	-151 46	-120 63	-4 26
30	0 003100	-0 000600	0 000133	1 61	-0 31	0 45	1 24	-1 08	-154 89	-177 83	-2 32
60	0 003230	0 000000	0 000000	1 68	0 00	0 00	1 45	-0 84	-120 62	-208 93	0 00
90	0 003100	0 000600	-0 000133	1 61	0 31	-0 45	1 55	-0 54	-76 56	-223 06	2 32
120	0 002420	0 000940	-0 000022	1 26	0 49	-0 07	1 33	-0 21	-28 74	-191 48	4 26
150	-0 000280	0 001600	0 000251	-0 15	0.83	0 84	0 29	0 79	116 11	-40 10	8.22
180	-0 001820	0 001120	0 000266	-0 95	0 58	0 89	-0 53	0 98	142 81	78 52	6 06
210	-0 002450	0 000450	0 000158	-1 27	0 23	0 53	-0 99	0 84	122 82	144 89	2 61
240	-0 002600	0 000000	0 000000	-1 35	0 00	0 00	-1 17	0 68	99 10	171 64	0 00
270	-0 002450	-0 000450	-0 000158	-1 27	-0 23	-0 53	-1 22	0 43	64 07	178 81	-2 61
300	-0 001820	-0 001120	-0 000266	-0 95	-0 58	-0 89	-1 11	-0 03	-3 41	162 94	-6 06
330	-0 000280	-0 001600	-0 000251	-0 15	-0 83	-0 84	-0 54	-0 65	-92 78	80 50	-8 22

HP6-65 - Elevation 145 From Leg B

Wind Azimuth °	C_A	C_S	C_M	F_A K	F_S K	F_M kip-ft	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 002420	0 000940	-0 000022	1 26	0.49	-0 07	-0 85	-1 05	-151 46	120 63	4 26
30	-0 000280	0 001600	0 000251	-0 15	0 83	0 84	0 54	-0 65	-92 78	-80 50	8.22
60	-0 001820	0 001120	0 000266	-0 95	0 58	0 89	1 11	-0 03	-3 41	-162 94	6 06
90	-0 002450	0 000450	0 000158	-1 27	0 23	0 53	1 22	0 43	64 07	-178 81	2 61
120	-0 002600	0 000000	0 000000	-1 35	0 00	0 00	1 17	0 68	99 10	-171 64	0 00
150	-0 002450	-0 000450	-0 000158	-1 27	-0 23	-0 53	0 99	0 84	122 82	-144 89	-2 61
180	-0 001820	-0 001120	-0 000266	-0 95	-0 58	-0 89	0 53	0 98	142 81	-78 52	-6 06
210	-0 000280	-0 001600	-0 000251	-0 15	-0 83	-0 84	-0 29	0 79	116 11	40 10	-8.22
240	0 002420	-0 000940	0 000022	1 26	-0 49	0 07	-1 33	-0 21	-28 74	191 48	-4 26
270	0 003100	-0 000600	0 000133	1 61	-0.31	0 45	-1 55	-0 54	-76 56	223 06	-2.32
300	0 003230	0 000000	0 000000	1 68	0 00	0 00	-1 45	-0 84	-120 62	208 93	0 00
330	0 003100	0 000600	-0 000133	1 61	0 31	-0 45	-1 24	-1 08	-154 89	177 83	2 32

VALMONT

1545 Pidco Dr

Plymouth, IN
Phone (574) 936-4221
FAX (574) 936-6458

Job	Page
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Project	**Date**
H-29' x300' - Suwannee Valley Tower, FL.	15 32 46 02/13/26
Client	**Designed by**
Florida Tel-Con, Inc	ES

Wind Azimuth °	C_A	C_S	C_M	F_A K	F_S K	F_M kip-ft	V_x K	V K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 002420	-0 000940	0 000022	0 29	-0 11	0 02	0 20	-0 25	-43 39	-34 05	-0 76
30	0 003100	-0 000600	0 000133	0 38	-0 07	0 10	0 29	-0 25	-44 38	-50 64	-0 39
60	0 003230	0 000000	0 000000	0 39	0 00	0 00	0 34	-0 20	-34 44	-59 66	0 00
90	0 003100	0 000600	-0 000133	0 38	0 07	-0 10	0 36	-0 13	-21 67	-63 76	0 39
120	0 002420	0 000940	-0 000022	0 29	0 11	-0 02	0 31	-0 05	-7 80	-54 60	0 76
150	-0 000280	0 001600	0 000251	-0 03	0 19	0 20	0 07	0 19	34 20	-10 70	1 53
180	-0 001820	0 001120	0 000266	-0 22	0 14	0 21	-0 12	0 23	41 95	23 69	1 14
210	-0 002450	0 000450	0 000158	-0 30	0 05	0 12	-0 23	0 20	36 15	42 94	0 50
240	-0 002600	0 000000	0 000000	-0 32	0 00	0 00	-0 27	0 16	29 27	50 70	0 00
270	-0 002450	-0 000450	-0 000158	-0 30	-0 05	-0 12	-0 28	0 10	19 11	52 78	-0 50
300	-0 001820	-0 001120	-0 000266	-0 22	-0 14	-0 21	-0 26	-0 01	-0 45	48 18	-1 14
330	-0 000280	-0 001600	-0 000251	-0 03	-0 19	-0 20	-0 13	-0 15	-26 37	24 27	-1 53

HP6 65 Elevation 180 From Leg B

Wind Azimuth °	C_A	C_S	C_M	F_A K	F_S K	F_M kip-ft	V_x K	V K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 002420	0 000940	-0 000022	0 29	0 11	-0 02	-0 20	-0.25	-43 39	34 05	0 76
30	-0 000280	0 001600	0 000251	-0 03	0 19	0 20	0 13	-0 15	-26 37	-24 27	1 53
60	-0 001820	0 001120	0 000266	-0 22	0 14	0 21	0 26	-0 01	-0 45	-48 18	1 14
90	-0 002450	0 000450	0 000158	-0 30	0 05	0 12	0 28	0 10	19 11	-52 78	0 50
120	-0 002600	0 000000	0 000000	-0 32	0 00	0 00	0 27	0 16	29 27	-50 70	0 00
150	-0 002450	-0 000450	-0 000158	-0 30	-0 05	-0 12	0 23	0 20	36 15	-42 94	-0 50
180	-0 001820	-0 001120	-0 000266	-0 22	-0 14	-0 21	0 12	0 23	41 95	-23 69	-1 14
210	-0 000280	-0 001600	-0 000251	-0 03	-0 19	-0 20	-0 07	0 19	34 20	10 70	-1 53
240	0 002420	-0 000940	0 000022	0 29	-0 11	0 02	-0 31	-0 05	-7 80	54 60	-0 76
270	0 003100	-0 000600	0 000133	0 38	-0 07	0 10	-0 36	-0 13	-21 67	63 76	-0 39
300	0 003230	0 000000	0 000000	0 39	0 00	0 00	-0 34	-0 20	-34 44	59 66	0 00
330	0 003100	0 000600	-0 000133	0 38	0 07	-0 10	-0 29	-0 25	-44 38	50 64	0 39

SPD2-5 2 w/ Radome - Elevation 170 - From Leg A

Wind Azimuth °	C_A	C_S	C_M	F_A K	F_S K	F_M kip-ft	V_x K	V_z K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	-0 001770	0 000000	0 000000	-0 02	0 00	0 00	0 00	-0 02	-4 19	0 00	0 00
30	-0 001330	-0 000700	-0 000132	-0 02	-0 01	-0 00	0 01	-0 02	-3 20	-1 57	-0 07
60	-0 000420	-0 000890	-0 000404	-0 01	-0 01	-0 01	0 01	-0 01	-1 16	-1 99	-0 10
90	0 000340	-0 001040	-0 000390	0 00	-0 01	-0 01	0 01	0 00	0 54	-2 33	-0 11
120	0 001070	-0 001280	0 000002	0 01	-0 02	0 00	0 02	0 01	2 18	-2 87	-0 13
150	0 001950	-0 001050	0 000277	0 03	-0 01	0 01	0 01	0 03	4 15	-2 35	-0 10
180	0 002210	0 000000	0 000000	0 03	0 00	0 00	0 00	0 03	4 73	0 00	0 00
210	0 001950	0 001050	-0 000277	0 03	0 01	-0 01	-0 01	0 03	4 15	2 35	0 10
240	0 001070	0 001280	-0 000002	0 01	0 02	-0 00	-0 02	0 01	2 18	2 87	0 13
270	0 000340	0 001040	0 000390	0 00	0 01	0 01	-0 01	0 00	0 54	2.33	0 11
300	-0 000420	0 000890	0 000404	-0 01	0 01	0 01	-0 01	-0 01	-1 16	1 99	0 10
330	-0 001330	0 000700	0 000132	-0 02	0 01	0 00	-0 01	-0 02	-3 20	1 57	0 07

SPD2-5 2 w/ Radome - Elevation 170 - From Leg B

Wind Azimuth °	C_A	C_S	C_M	F_A K	F_S K	F_M kip-ft	V_x K	V K	OTM_x kip-ft	OTM_z kip-ft	Torque kip-ft
0	0 001070	0 001280	-0 000002	0 01	0 02	-0 00	-0 00	-0 02	-3 57	0 45	0 13
30	0 000340	0 001040	0 000390	0 00	0 01	0 01	0 00	-0 01	-2.29	-0 70	0 11
60	-0 000420	0 000890	0 000404	-0 01	0 01	0 01	0 01	-0 01	-1 15	-2 01	0 10
90	-0 001330	0 000700	0 000132	-0 02	0 01	0 00	0 02	0 00	0 24	-3 56	0 07
120	-0 001770	0 000000	0 000000	-0 02	0 00	0 00	0 02	0 01	2 10	-3 63	0 00
150	-0 001330	-0 000700	-0 000132	-0 02	-0 01	-0 00	0 01	0 02	2 96	-1 99	-0 07
180	-0 000420	-0 000890	-0 000404	-0 01	-0 01	-0 01	-0 00	0 01	2.31	-0 01	-0 10
210	0 000340	-0 001040	-0 000390	0 00	-0 01	-0 01	-0 01	0 01	1 75	1 63	-0 11
240	0 001070	-0 001280	0 000002	0 01	-0 02	0 00	-0 02	0 01	1 40	3 32	-0 13
270	0 001950	-0 001050	0 000277	0 03	-0 01	0 01	-0 03	-0 00	-0 04	4 77	-0 10
300	0 002210	0 000000	0 000000	0 03	0 00	0 00	-0 03	-0 01	-2 37	4 10	0 00
330	0 001950	0 001050	-0 000277	0 03	0 01	-0 01	-0 02	-0 02	-4 11	2.42	0 10

Load Case	Vertical Forces K	Sum of Forces X K	Sum of Forces Z K	Sum of Overturning Moments, M_x kip-ft	Sum of Overturning Moments, M_z kip-ft	Sum of Torques kip-ft
Leg Weight	27 92					
Bracing Weight	14 69					
Total Member Self-Weight	42 61			26 46	28 05	
Total Weight	55 82			26 46	28 05	
Wind 0 deg - No Ice		-0 02	-72 14	-10934 24	30 93	-109 23
Wind 30 deg - No Ice		35 49	-58 73	-8945 05	-5408 12	-55 07
Wind 60 deg - No Ice		59 43	-33 06	-5007 53	-9046 02	0 08
Wind 90 deg - No Ice		70 62	-0 16	2 37	-10687 03	57 11
Wind 120 deg - No Ice		63 36	34 62	5225 46	-9525 01	103 00
Wind 150 deg - No Ice		35 25	59 89	9124 97	-5334 74	138 19
Wind 180 deg - No Ice		-0 00	67 31	10319 72	28 87	109 35
Wind 210 deg - No Ice		-34 53	58 60	8980 88	5310 92	55 94
Wind 240 deg - No Ice		-63 33	34 59	5255 75	9639 34	3 43
Wind 270 deg - No Ice		-70 66	-0 17	1 12	10750 29	-57 22
Wind 300 deg - No Ice		-59 53	-33 11	-4979 58	9055 35	-106 63
Wind 330 deg - No Ice		-36 27	-60 04	-9091 87	5553 70	-138 95
Total Weight	55 82			26 46	28 05	
Wind 0 deg - Service		-0 00	-16 38	-2494 52	-0 71	-24 38
Wind 30 deg - Service		8 06	-13 35	-2043 16	-1242 20	-12 29
Wind 60 deg - Service		13 51	-7 52	-1144 18	-2074 32	0 02
Wind 90 deg - Service		16 04	-0 04	1 53	-2447 96	12 75
Wind 120 deg - Service		14 38	7 87	1194 83	-2181 23	22 99
Wind 150 deg - Service		8 01	13 61	2085 33	-1225 83	30 84
Wind 180 deg - Service		-0 00	15 30	2359 36	-1 17	24 41
Wind 210 deg - Service		-7 85	13 32	2053 17	1205 29	12 49
Wind 240 deg - Service		-14 38	7 86	1201 59	2191 52	0 77
Wind 270 deg - Service		-16 05	-0 04	1 25	2446 85	-12 77
Wind 300 deg - Service		-13 53	-7 53	-1137 94	2061 17	-23 80
Wind 330 deg - Service		-8 23	-13 64	-2075 94	1259 47	-31 01

Load Combinations

Comb. No	Description
1	Dead Only
2	1 2 Dead+1 0 Wind 0 deg - No Ice
3	1 2D+1 0W (pattern 1) 0 deg - No Ice
4	1 2D+1 0W (pattern 2) 0 deg - No Ice
5	0 9 Dead+1 0 Wind 0 deg - No Ice
6	1 2 Dead+1 0 Wind 30 deg - No Ice
7	1 2D+1 0W (pattern 1) 30 deg - No Ice
8	1 2D+1 0W (pattern 2) 30 deg - No Ice
9	0 9 Dead+1 0 Wind 30 deg - No Ice
10	1 2 Dead+1 0 Wind 60 deg - No Ice
11	1 2D+1 0W (pattern 1) 60 deg - No Ice
12	1 2D+1 0W (pattern 2) 60 deg - No Ice
13	0 9 Dead+1 0 Wind 60 deg - No Ice
14	1 2 Dead+1 0 Wind 90 deg - No Ice
15	1 2D+1 0W (pattern 1) 90 deg - No Ice
16	1 2D+1 0W (pattern 2) 90 deg - No Ice
17	0 9 Dead+1 0 Wind 90 deg - No Ice
18	1 2 Dead+1 0 Wind 120 deg - No Ice
19	1 2D+1 0W (pattern 1) 120 deg - No Ice
20	1 2D+1 0W (pattern 2) 120 deg - No Ice
21	0 9 Dead+1 0 Wind 120 deg - No Ice
22	1 2 Dead+1 0 Wind 150 deg - No Ice

Section No	Elevation ft	Component Type	Condition	Gov Load Comb	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max Mx	35	0 11	-0 01	0 00
			Max My	22	-0 18	0 00	0 00
			Max Vy	35	0 01	0 00	0 00
			Max Vx	22	-0 00	0 00	0 00
T2	280 - 260	Leg	Max Tension	26	44 87	0 01	-0 06
			Max Compression	34	-47 90	0 18	-0 10
			Max Mx	15	-0 01	0 33	0 02
			Max My	47	-1 74	0 14	-0 30
			Max Vy	38	0 57	0 22	0 02
			Max Vx	2	0 54	-0 04	0 25
		Diagonal	Max Tension	38	4 46	0 04	0 00
			Max Compression	38	-4 75	0 00	0 00
			Max Mx	33	-1 79	-0 06	-0 00
			Max My	22	-3 07	0 03	-0 01
			Max Vy	30	0 02	0 00	0 00
			Max Vx	22	-0 00	0 00	0 00
T3	260 - 240	Leg	Max Tension	26	94 52	0 00	-0 63
			Max Compression	34	-99 80	-0 36	0 30
			Max Mx	42	-45 29	-1 15	-0 27
			Max My	22	-84 22	-0 17	1 18
			Max Vy	39	0 49	0 35	0 04
			Max Vx	47	0 48	0 16	0 31
		Diagonal	Max Tension	38	7 38	0 07	0 00
			Max Compression	38	-7 82	0 00	0 00
			Max Mx	26	4 89	0 09	-0 01
			Max My	18	-6 25	-0 05	-0 02
			Max Vy	26	0 03	0 09	-0 01
			Max Vx	18	-0 01	-0 05	-0 02
T4	240 - 220	Leg	Max Tension	26	117 38	-0 74	0 01
			Max Compression	2	-125 84	1 45	0 15
			Max Mx	2	-110 66	2 29	0 23
			Max My	22	-5 79	0 03	-2 43
			Max Vy	2	-0 56	2 29	0 23
			Max Vx	22	0 67	0 03	-2 43
		Diagonal	Max Tension	49	4 33	0 06	0 01
			Max Compression	46	-4 40	0 00	0 00
			Max. Mx	30	2 29	0 07	0 00
			Max My	18	-4.28	-0 03	-0 02
			Max Vy	30	0 02	0 07	0 00
			Max Vx	18	0 01	0 00	0 00
T5	220 - 200	Leg	Max Tension	29	136 75	-0 83	-0 04
			Max Compression	2	-149 37	1 05	0 09
			Max Mx	34	-132 30	1 28	-0 07
			Max My	38	-2 12	-0 01	-1 15
			Max Vy	21	0 24	0 87	0 04
			Max Vx	38	-0 72	-0 01	-1 15
		Diagonal	Max Tension	3	3 83	0 00	0 00
			Max Compression	3	-4 24	0 00	0 00
			Max Mx	26	1 54	0 05	-0 01
			Max My	46	-2 67	0 01	0 01
			Max Vy	26	0 02	0 05	-0 01
			Max Vx	46	0 00	0 00	0 00
T6	200 - 180	Leg	Max Tension	29	156 32	-1 51	-0 14
			Max Compression	2	-171 95	0 54	-0 11
			Max Mx	2	-164 24	1 64	0 10
			Max My	46	-6 97	-0 05	1 87
			Max Vy	11	-0 25	-1 47	-0 05
			Max Vx	46	0 43	-0 05	1 87
		Diagonal	Max Tension	27	4 67	0 00	0 00
			Max Compression	3	-5 15	0 00	0 00
			Max Mx	26	1 76	0 10	-0 01

Section No	Elevation ft	Component Type	Condition	Gov Load Comb	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max Vy	38	0 05	0 19	0 02
			Max Vx	42	-0 01	0 00	0 00
T12	80 - 60	Leg	Max Tension	29	307 14	-0 47	0 08
			Max Compression	34	-350 50	9 99	0 26
			Max Mx	21	-340 85	10 10	-1 35
			Max My	46	-24 10	-0 29	13 28
			Max Vy	11	0 83	-10 04	-0 17
			Max Vx	46	-1 07	-0 29	13 28
		Diagonal	Max Tension	45	14 15	0 00	0 00
			Max Compression	18	-15 60	0 00	0 00
			Max Mx	26	8 62	-0 27	0 03
			Max My	18	-15 51	-0 07	0 10
			Max Vy	26	-0 07	-0 27	0 03
			Max Vx	18	-0 01	0 00	0 00
T13	60 - 40	Leg	Max Tension	13	335 83	2 99	-0 01
			Max Compression	34	-385 31	15 25	-0 04
			Max Mx	2	-383 58	15 26	1 38
			Max My	38	-15 49	-0 80	-8 78
			Max Vy	18	-1 28	15 26	-1 31
			Max Vx	46	0 74	-0 85	7 62
		Diagonal	Max Tension	14	14 25	0 00	0 00
			Max Compression	14	-15 04	0 00	0 00
			Max Mx	34	11 18	-0 27	-0 02
			Max My	49	-10 02	-0 07	-0 06
			Max Vy	46	-0 07	-0.27	-0 03
			Max Vx	49	0 01	-0 07	-0 06
T14	40 - 20	Leg	Max Tension	13	361 66	-2 74	0 10
			Max Compression	34	-417 24	8 74	0 31
			Max Mx	10	355 95	-9 23	-0 21
			Max My	46	-29 95	-0 38	16 75
			Max Vy	11	0 65	-9 21	-0 20
			Max Vx	46	-1 43	-0 38	16 75
		Diagonal	Max Tension	18	14 21	0 00	0 00
			Max Compression	14	-14 80	0 00	0 00
			Max Mx	42	7 47	-0 40	-0 04
			Max My	42	-13 96	-0 27	-0 14
			Max Vy	42	-0 10	-0 40	-0 04
			Max Vx	42	0 01	0 00	0 00
T15	20 - 0	Leg	Max Tension	13	384 71	-0 47	-0 13
			Max Compression	34	-446 03	5 94	0 03
			Max Mx	18	-440 89	5 99	-0 66
			Max My	38	-20 46	-1 01	-11 55
			Max Vy	19	-0 59	5 99	-0 65
			Max Vx	46	0 83	-0 99	11 08
		Diagonal	Max Tension	45	15 23	0 00	0 00
			Max Compression	18	-17 24	0 00	0 00
			Max Mx	38	3 25	-0 54	-0 09
			Max My	24	4 65	-0 44	0 10
			Max Vy	38	-0 13	-0 53	0 06
			Max Vx	24	-0 01	0 00	0 00

Maximum Reactions

Location	Condition	Gov Load Comb	Vertical K	Horizontal, X K	Horizontal, Z K
Leg C	Max Vert	34	462 61	40 20	-23 17

Load Combination	Vertical	$Shear_x$	$Shear_z$	Overturning Moment, M_x	Overturning Moment, M_z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
No Ice						
1 2D+1 0W (pattern 1) 120 deg - No Ice	66 98	63 09	34 47	5222 41	-9500 40	102 65
1 2D+1 0W (pattern 2) 120 deg - No Ice	66 98	38 66	21 14	3288 01	-5933 46	101 07
0 9 Dead+1 0 Wind 120 deg - No Ice	50 23	63 36	34 62	5252 43	-9572 96	103 46
1 2 Dead+1 0 Wind 150 deg - No Ice	66 98	35 25	59 89	9197 76	-5356 24	138 74
1 2D+1 0W (pattern 1) 150 deg - No Ice	66 98	35 08	59 58	9105 84	-5304 82	137 96
1 2D+1 0W (pattern 2) 150 deg - No Ice	66 98	21 54	36 60	5736 34	-3322 51	134 68
0 9 Dead+1 0 Wind 150 deg - No Ice	50 23	35 25	59 89	9173 63	-5355 61	138 62
1 2 Dead+1 0 Wind 180 deg - No Ice	66 98	-0 00	67 31	10395 83	37 17	109 58
1 2D+1 0W (pattern 1) 180 deg - No Ice	66 98	-0 00	66 94	10284 78	36 98	109 58
1 2D+1 0W (pattern 2) 180 deg - No Ice	66 98	-0 00	41 18	6494 00	35 25	110 15
0 9 Dead+1 0 Wind 180 deg - No Ice	50 23	-0 00	67 31	10369 58	28 63	109 50
1 2 Dead+1 0 Wind 210 deg - No Ice	66 98	-34 53	58 60	9050 74	5347 72	55 87
1 2D+1 0W (pattern 1) 210 deg - No Ice	66 98	-34 35	58 30	8958 98	5296 00	56 64
1 2D+1 0W (pattern 2) 210 deg - No Ice	66 98	-21 11	35 83	5648 64	3343 48	60 88
0 9 Dead+1 0 Wind 210 deg - No Ice	50 23	-34 53	58 60	9026 76	5330 09	55 86
1 2 Dead+1 0 Wind 240 deg - No Ice	66 98	-63 33	34 59	5298 59	9709 11	3 15
1.2D+1 0W (pattern 1) 240 deg - No Ice	66 98	-63 06	34 43	5251 11	9628 12	4 10
1 2D+1 0W (pattern 2) 240 deg - No Ice	66 98	-38 64	21 12	3305 66	6036 94	6 22
0 9 Dead+1 0 Wind 240 deg - No Ice	50 23	-63 33	34 59	5280 96	9683 51	3 22
1 2 Dead+1 0 Wind 270 deg - No Ice	66 98	-70 66	-0 17	3 72	10828 47	-57 55
1 2D+1 0W (pattern 1) 270 deg - No Ice	66 98	-70 37	-0 17	3 71	10740 33	-56 69
1.2D+1 0W (pattern 2) 270 deg - No Ice	66 98	-43 12	-0 10	16 55	6733 71	-54 95
0 9 Dead+1 0 Wind 270 deg - No Ice	50 23	-70 66	-0 17	-4 25	10801 34	-57 43
1.2 Dead+1 0 Wind 300 deg - No Ice	66 98	-59 52	-33 11	-5005 23	9123 65	-107 05
1.2D+1 0W (pattern 1) 300 deg - No Ice	66 98	-59 25	-32 95	-4958 82	9042 05	-106 12
1 2D+1 0W (pattern 2) 300 deg - No Ice	66 98	-36 36	-20.23	-3105 12	5684 98	-103 20
0 9 Dead+1 0 Wind 300 deg - No Ice	50 23	-59 52	-33 11	-5004 56	9099 45	-106 92
1 2 Dead+1 0 Wind 330 deg - No Ice	66 98	-36 26	-60 03	-9143 05	5605 55	-139 49
1 2D+1 0W (pattern 1) 330 deg - No Ice	66 98	-36 09	-59 73	-9052 56	5551 68	-138 72
1 2D+1 0W (pattern 2) 330 deg - No Ice	66 98	-22 15	-36 69	-5681 38	3493 23	-135 14

Load Comb	Sum of Applied Forces PX K	PY K	PZ K	Sum of Reactions PX K	PY K	PZ K	% Error
39	-70 37	-66 98	-0 17	70 37	66 98	0 17	0 004%
40	-43 12	-66 98	-0 10	43 12	66 98	0 10	0 003%
41	-70 66	-50 23	-0 17	70 66	50 23	0 17	0 004%
42	-59 53	-66 98	-33 11	59 52	66 98	33 11	0 004%
43	-59 26	-66 98	-32 95	59 25	66 98	32 95	0 004%
44	-36 36	-66 98	-20 24	36 36	66 98	20 23	0 003%
45	-59 53	-50 23	-33 11	59 52	50 23	33 11	0 004%
46	-36 27	-66 98	-60 04	36 26	66 98	60 03	0 004%
47	-36 09	-66 98	-59 73	36 09	66 98	59 73	0 004%
48	-22 15	-66 98	-36 69	22 15	66 98	36 69	0 003%
49	-36 27	-50 23	-60 04	36 27	50 23	60 03	0 004%
50	-0 00	-55 82	-16 38	0 00	55 82	16 38	0 001%
51	8 06	-55 82	-13 35	-8 06	55 82	13 35	0 001%
52	13 51	-55 82	-7 52	-13 51	55 82	7 52	0 001%
53	16 04	-55 82	-0 04	-16 04	55 82	0 04	0 001%
54	14 38	-55 82	7 87	-14 38	55 82	-7 87	0 001%
55	8 01	-55 82	13 61	-8 01	55 82	-13 61	0 001%
56	-0 00	-55 82	15 30	0 00	55 82	-15 30	0 001%
57	-7 85	-55 82	13 32	7 85	55 82	-13 32	0 001%
58	-14 38	-55 82	7 86	14 38	55 82	-7 86	0 001%
59	-16 05	-55 82	-0 04	16 05	55 82	0 04	0 001%
60	-13 53	-55 82	-7 53	13 53	55 82	7 53	0 001%
61	-8 23	-55 82	-13 64	8 23	55 82	13 64	0 001%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	7	0 00000001	0 00014890
2	Yes	16	0 00005980	0 00010393
3	Yes	16	0 00005983	0 00010368
4	Yes	16	0 00006211	0 00010767
5	Yes	15	0 00008028	0 00013718
6	Yes	16	0 00006713	0 00011530
7	Yes	16	0 00006666	0 00011426
8	Yes	16	0 00006604	0 00011395
9	Yes	16	0 00005284	0 00009102
10	Yes	16	0 00006990	0 00011963
11	Yes	16	0 00006971	0 00011906
12	Yes	16	0 00006871	0 00011808
13	Yes	16	0 00005517	0 00009474
14	Yes	16	0 00006604	0 00011315
15	Yes	16	0 00006591	0 00011274
16	Yes	16	0 00006570	0 00011309
17	Yes	16	0 00005172	0 00008886
18	Yes	16	0 00005996	0 00010395
19	Yes	16	0 00005993	0 00010363
20	Yes	16	0 00006217	0 00010766
21	Yes	15	0 00008054	0 00013728
22	Yes	16	0 00006786	0 00011664
23	Yes	16	0 00006720	0 00011528
24	Yes	16	0 00006610	0 00011415
25	Yes	16	0 00005355	0 00009226
26	Yes	16	0 00007011	0 00012036
27	Yes	16	0 00006991	0 00011975
28	Yes	16	0 00006899	0 00011889

Elevation ft	Appurtenance	Gov Load Comb	Deflection in	Tilt °	Twist °	Radius of Curvature ft
300 00	21' LRE with 7'-6" lightning rod (arm=11 5')	58	15 798	0 5932	0 1400	172187
298 00	SP1 HS6D-K	58	15 551	0 5926	0 1393	172187
275 00	DB224-A	58	12 737	0 5654	0 1257	26612
273 00	SP1 HS6D-K	58	12 499	0 5600	0 1238	23086
260 00	SPD2-5 2 w/ Radome	58	11 011	0 5151	0 1105	13097
250 00	SC488-HF1SNF (Future)	58	9 963	0 4742	0 1005	18333
248 00	SP1 HS6D-K (Future)	58	9 762	0 4660	0 0985	20296
220 00	DB224-A	58	7 167	0 3744	0 0668	11734
218 00	SP1 HS6D-K	58	7 005	0 3684	0 0650	11835
180 00	HP6-65	58	4 497	0 2691	0 0463	23775
170 00	SPD2-5 2 w/ Radome	58	3 971	0 2475	0 0411	38149
150 00	Marker Interface enclosure	58	3 001	0 2028	0 0318	36086
145 00	HP6-65	58	2 773	0 1923	0 0302	27031

Maximum Tower Deflections - Design Wind

Section No	Elevation ft	Horz Deflection in	Gov Load Comb	Tilt °	Twist °
T1	300 - 280	68 668	2	2 5703	0 6293
T2	280 - 260	57 998	2	2 5094	0 5838
T3	260 - 240	47 836	2	2 2503	0 4966
T4	240 - 220	38 955	2	1 9020	0 4042
T5	220 - 200	31 062	34	1 6348	0 3003
T6	200 - 180	24 698	34	1 3656	0 2420
T7	180 - 160	19 476	34	1 1659	0 2078
T8	160 - 140	15 058	34	0 9745	0 1608
T9	140 - 120	11 081	34	0 7895	0 1285
T10	120 - 100	7 870	34	0 6511	0 1013
T11	100 - 80	5 304	34	0 5092	0 0791
T12	80 - 60	3 338	34	0 3659	0 0559
T13	60 - 40	1 858	34	0 2575	0 0381
T14	40 - 20	0 860	34	0 1724	0 0217
T15	20 - 0	0 197	34	0 0852	0 0098

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov Load Comb	Deflection in	Tilt °	Twist °	Radius of Curvature ft
300 00	21' LRE with 7'-6" lightning rod (arm=11 5')	2	68 668	2 5703	0 6293	47046
298 00	SP1 HS6D-K	2	67 596	2 5682	0 6258	47046
275 00	DB224-A	2	55 372	2 4638	0 5649	6630
273 00	SP1 HS6D-K	2	54 333	2 4413	0 5565	5645
260 00	SPD2-5 2 w/ Radome	2	47 836	2.2503	0 4966	3012
250 00	SC488-HF1SNF (Future)	2	43 256	2 0723	0 4517	4262
248 00	SP1 HS6D-K (Future)	2	42 378	2 0366	0 4426	4719
220 00	DB224-A	34	31 062	1 6348	0 3003	2648
218 00	SP1 HS6D-K	34	30 355	1 6080	0 2920	2669

Section No	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load / Allowable	Allowable Ratio	Criteria
		Diagonal	A325N	0 8750	1	14 25	24 68	0 577 ✔	1	Member Block Shear
T14	40	Leg	A325N	1 0000	12	30 14	54 52	0 553 ✔	1	Bolt Tension
		Diagonal	A325N	0 8750	1	14 21	32 91	0 432 ✔	1	Member Block Shear
T15	20	Leg	F1554-105	1 5000	4	96 18	131 74	0 730 ✔	1	Bolt Tension
		Diagonal	A325N	0 8750	1	15 23	39 00	0 390 ✔	1	Member Block Shear

Compression Checks

Leg Design Data (Compression)

Section No	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $P_u / \phi P_n$
T1	300 - 280	0049) 2 50" S - 20' - C - 0 75" conn - (Prod 226160)	20 00	4 90	62 0 K=1 00	1 7040	-14 97	57 89	0 259 [1] ✔
T2	280 - 260	0049) 2 50" S - 20' - C - 0 75" conn - (Prod 226160)	20 00	5 00	63 3 K=1 00	1 7040	-47 90	57 19	0 838 [1] ✔
T3	260 - 240	0131) 3 00 to 5" TS - 20' - C - 0 75" conn - (Prod 295584)	20 00	5 00	52 8 K=1 00	3 0159	-99 80	110 69	0 902 [1] ✔
T4	240 - 220	0375) 5 00" to 4" S - 20' - C - 0 75" conn - (Prod 226200)	20 03	6 68	42 7 K=1 00	4 2999	-125 84	169 37	0 743 [1] ✔
T5	220 - 200	0367) 5 00" S - 20' - C - 0 75" conn - (Prod 226192)	20 03	6 68	42 7 K=1 00	4 2999	-149 37	169 37	0 882 [1] ✔
T6	200 - 180	0411) 6 00" S - 20' - C - 0 75" conn - (Prod 226206)	20 03	6 68	35 7 K=1 00	5 5813	-171 95	228 83	0 751 [1] ✔
T7	180 - 160	0419) 6 00" to #12 S - 20' - C - 0 75" conn - (Prod 229377)	20 03	6 68	35 7 K=1 00	5 5813	-201 11	228 83	0 879 [1] ✔
T8	160 - 140	#12ZG-58 - 1 50" - 1 00" conn. (Prod 194651)	20 03	10 02	34 4 K=1 00	5 3014	-226 23	250 28	0 904 [1] ✔
T9	140 - 120	#12ZG-58 - 1 75" - 1 00" conn -TR1-(Prod 195213)	20 03	10 02	29 5 K=1 00	7 2158	-260 40	349 87	0 744 [1] ✔
T10	120 - 100	#12ZG-58 - 1 75" - 1 00" conn. (Prod 195217)	20 03	10 02	29 5 K=1 00	7 2158	-294 49	349 87	0 842 [1] ✔
T11	100 - 80	#12ZG-58 - 1 75" - 1 00" conn (Prod 195217)	20 03	10 02	29 5 K=1 00	7 2158	-328 56	349 87	0 939 [1] ✔
T12	80 - 60	#12ZG-58 -2 00" - 0 875" conn -TR3-(Prod 195637)	20 03	20 03	48 8 K=1 00	9 4248	-350 50	401 94	0 872 [1] ✔
T13	60 - 40	#12ZG-58 -2 25" - 0 875" conn (Prod 195960)	20 03	20 03	48 8 K=1 00	11 9282	-385 31	508 98	0 757 [1] ✔
T14	40 - 20	#12ZG-58 -2 25" - 0 875" conn. (Prod 195960)	20 03	20 03	48 8 K=1 00	11 9282	-417 24	508 98	0 820 [1] ✔

Section No	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T9	140 - 120	L3x3x1/4	17 33	8 72	176 8 K=1 00	1 4400	-10 02	13 19	0 760 [1] ✔
T10	120 - 100	L3x3x5/16	19 06	9 58	195 2 K=1 00	1 7800	-10 73	13 38	0 802 [1] ✔
T11	100 - 80	L3 1/2x3 1/2x1/4	20 84	10 46	180 9 K=1 00	1 6900	-11 16	14 78	0 755 [1] ✔
T12	80 - 60	2L3x3x3/16	27 77	14 35	183 4 K=1 00	2 1800	-15 60	18 56	0 841 [1] ✔
T13	60 - 40	2L3x3x3/16	29 25	15 07	192'5 K=1 00	2 1800	-15 04	16 83	0 894 [1] ✔
T14	40 - 20	2L3x3x1/4	30 78	15 82	204 0 K=1 00	2 8750	-14 80	19 77	0 748 [1] ✔
T15	20 - 0	KL/R > 200 (C) - 251 2L3 1/2x3 1/2x1/4	32 37	16 60	182 5 K=1 00	3 3750	-17 24	29 00	0 595 [1] ✔

[1] P_u / ϕP_n controls

Top Girt Design Data (Compression)

Section No	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	300 - 280	L2x2x3/16	5 00	4 49	136 7 K=1 00	0 7150	-0 39	10 95	0 035 [1] ✔

[1] P_u / ϕP_n controls

Tension Checks

Leg Design Data (Tension)

Section No	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	300 - 280	0049) 2 50" S - 20' - C - 0 75" conn - (Pırod 226160)	20 00	4 90	62 0	1 7040	14 36	76 68	0 187 [1] ✔
T2	280 - 260	0049) 2 50" S - 20' - C - 0 75" conn - (Pırod 226160)	20 00	5 00	63 3	1 7040	44 87	76 68	0 585 [1] ✔
T3	260 - 240	0131) 3 00 to 5" TS - 20' - C - 0 75" conn - (Pırod 295584)	20 00	5 00	52 8	3 0159	94 52	135 72	0 696 [1] ✔
T4	240 - 220	0375) 5 00" to 4" S - 20' - C - 0 75" conn - (Pırod 226200)	20 03	6 68	42 7	4 2999	117 39	193 49	0 607 [1] ✔
T5	220 - 200	0367) 5 00" S - 20' - C -	20 03	6 68	42 7	4 2999	136 75	193 49	0 707 [1]

Section No	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	300 - 280	L2x2x1/8	5 82	2 72	55 8	0 2812	2 54	13 71	0 185 [1]
T2	280 - 260	L2x2x1/8	5 89	2 76	56 5	0 2812	4 46	13 71	0 325 [1]
T3	260 - 240	L2x2x3/16	5 89	2 76	57 3	0 4132	7 38	20 14	0 366 [1]
T4	240 - 220	L2x2x3/16	7 24	3 66	74 8	0 4132	4 33	20 14	0 215 [1]
T5	220 - 200	L2x2x3/16	9 08	4 54	92 0	0 4132	3 83	20 14	0 190 [1]
T6	200 - 180	L3x3x3/16	11 26	5 62	74 2	0 6945	4 67	33 85	0 138 [1]
T7	180 - 160	L2 1/2x2 1/2x3/16	13 01	6 49	103 0	0 5535	7 18	26 98	0 266 [1]
T8	160 - 140	L3x3x3/16	15 67	7 90	103 6	0 6593	8 40	32 14	0 261 [1]
T9	140 - 120	L3x3x1/4	16 49	8 30	109 8	0 8691	9 65	42 37	0 228 [1]
T10	120 - 100	L3x3x5/16	19 06	9 58	127 4	1 0713	10 38	52 23	0 199 [1]
T11	100 - 80	L3 1/2x3 1/2x1/4	20 84	10 46	117 5	1 0566	11 47	51 51	0 223 [1]
T12	80 - 60	2L3x3x3/16	27 77	14 35	185 5	1 3537	14 15	66 00	0 214 [1]
T13	60 - 40	2L3x3x3/16	29 25	15 07	194 7	1 3537	14 25	66 00	0 216 [1]
T14	40 - 20	2L3x3x1/4	30 78	15 82	206 2	1 7812	14 21	86 84	0 164 [1]
T15	20 - 0	2L3 1/2x3 1/2x1/4	32 37	16 60	184 3	2 1562	15 23	105 12	0 145 [1]

[1] P_u / ϕP_n controls

Top Girt Design Data (Tension)

Section No	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	300 - 280	L2x2x3/16	5 00	4 49	92 6	0 4132	0 26	20 14	0 013 [1]

[1] P_u / ϕP_n controls

Section Capacity Table

VALMONT	Job	Page
	617129	89 of 89
1545 Pidco Dr	Project	Date
	H-29' x300' - Suwannee Valley Tower, FL.	15 32 46 02/13/26
Plymouth, IN Phone (574) 936-4221 FAX (574) 936-6458	Client	Designed by
	Florida Tel-Con, Inc	ES

Program Version 8 3 0 5 - 9/19/2024 File X./Documents/617/617129Florida Tel-Con, Inc - Columbia County Florida US HWY 41 - 250' SST/02 Tower Calcs/617129 eri

es718832

SELF-SUPPORT TOWER FOUNDATION DESIGN SUMMARY

Florida Tel-Con, Inc H 29 300 V 2.9
H-29' x300' - Suwannee Valley Tower, FL. A- 617129

Pier Dimensions		
Pier diameter, d_f:	4.50	ft
Depth, D:	54.0	ft
Ext. above grade, E:	0.50	ft
Bell diameter, b_d:	none	ft
Volume, V_c:	32.10	cy / leg

Soil Information Per:
Geotechnical Report by TEP, Project Number: 60013.1063668, dated February 27, 2025

Material Properties		
Steel tensile str, F_y:	60000	psi
Conc. Comp. str, F'_c:	4500	psi
Conc. Density, δ:	150.0	pcf
Clear cover, cc:	3.00	in

Reinforcement Design			
Rebar	$m_{\_c}$:	15	verticals
	size, $s_{\_c}$:	8	equally spaced in 4' cage
Ties	size, $s_{\_t}$:	4	default hook
	$m_{\_t}$:	57	tie qty
Horizontal Rebar in top 6in of pier for temp. & shrinkage?		NO	per TIA-222-H 9.6

* Rebar quantities shown above are per pier

Site Parameters		
Ultimate Bearing, B_c:	41.775	ksf
Ultimate Pp:	0.530	kcf
Ult. Skin Friction, SF:	0.621	ksf
Seismic Design Cat.:	B	
Depth neglected, N:	4.50	ft
Neglect bottom, N_b:	none	ft

Additional Notes:

* No foundation modifications listed

* See attached "Foundation Notes" for further information

Tower design conforms to the following:

* *International Building Code (IBC)*

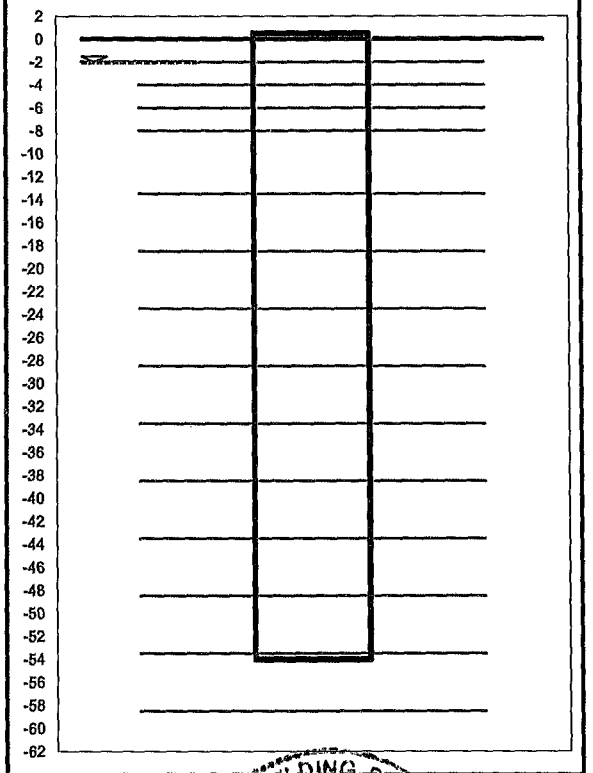
* *ANSI TIA-222-H*

* *Building Code Requirements for Reinforced Concrete (ACI 318-14)*

Anchor Bolts		
P/N:	282819	(4) 1.5" Dia. x 60" Anchor Bolts Per Leg Grade 105

Foundation Loading				
Max Corner Reactions		stress ratio: 93.9%		mark up: 6.5%
Shear/Leg, S:	46.00 kips	x 1.065 =	48.99 kips	
Moment/Leg, M	0.00 ft-kips	x 1.065 =	0.00 ft-kips	
Compression/Leg, C.	463.00 kips	x 1.065 =	493.10 kips	
Uplift/Leg, U.	397.00 kips	x 1.065 =	422.81 kips	

View of Foundation (not to scale)



2/20/2026

CHRISTOPHER W. BLAUMER ★ LICENSE ★ No. 69633 ★ STATE OF FLORIDA PROFESSIONAL ENGINEER

EXP. 2/28/2027

This item has been electronically signed and sealed by Christopher W. Blaumer on the date adjacent to the seal using a SHA authentication code.

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COLUMBIA COUNTY BUILDING DEPARTMENT Received for FILE COPY Comments PLANS EXAMINER

SST DRILLED PIER FOUNDATION

Florida Tel-Con, Inc H 29.0 300 V 2.9

H-29' x300' - Suwannee Valley Tower, FL. A- 617129

Design Summary		
Pier diameter:	4.50	ft
Design depth:	54.0	ft
Concrete volume:	32.10	cu.yd. each

Maximum Loading		
Max. Uplift, U_{max}:	422.81	kips/leg
Max. Comp., C_{max}:	647.77	kips/leg
Max. Shear, S_{max}:	48.99	kips/leg

Soil per: Geotechnical Report by TEP, Project Number: 60013.1063668, dated February 27, 2025

Use #4 circular ties.
Min. concrete compressive strength to be 4500 psi
Use anchor bolt p/n 135616

Ultimate bearing	41.775	ksf
Ultimate S F (uplift).	0.621	ksf
Ultimate S F (comp.):	0.621	ksf

Skin friction by: Given

Layer #	From (ft)	To (ft)	Cont. layer length (ft)	Pier diameter (ft)	Cohesion (ksf)	Phi (deg)	Unit weight of soil (pcf)	Overburden pressure (ksf)	Average overburden pressure (ksf)	Uplift Resistance: Factored skin friction (ksf)	Factored friction force (kips)	Factored concrete weight (kips)	Uplift Reslst. (kips)	Compression Resistance: Factored skin friction (ksf)	Factored friction force (kips)	Factored bearing capacity (ksf)
1	0.00	2.00	2.00	4.50	0.000	29.000	106.0	0.212	0.106	0.000	0.00	5.37	5.37	0.000	0.00	-
2	2.00	4.00	2.00	4.50	0.000	29.000	40.6	0.293	0.253	0.000	0.00	2.51	2.51	0.000	0.00	-
3	4.00	4.50	0.50	4.50	0.000	30.000	42.6	0.315	0.304	0.000	0.00	0.63	0.63	0.000	0.00	-
4	4.50	6.00	1.50	4.50	0.000	30.000	42.6	0.378	0.346	0.098	2.07	1.88	3.95	0.098	2.07	-
5	6.00	8.00	2.00	4.50	0.000	29.000	40.6	0.460	0.419	0.120	3.39	2.51	5.90	0.120	3.39	-
6	8.00	13.50	5.50	4.50	0.000	30.000	42.6	0.694	0.577	0.180	14.00	6.90	20.89	0.180	14.00	-
7	13.50	18.50	5.00	4.50	0.000	32.000	49.6	0.942	0.818	0.270	19.09	6.27	25.35	0.270	19.09	-
8	18.50	23.50	5.00	4.50	2.300	0.000	49.6	1.190	1.066	0.945	66.80	6.27	73.07	0.945	66.80	-
9	23.50	28.50	5.00	4.50	0.000	31.000	49.6	1.438	1.314	0.420	29.69	6.27	35.96	0.420	29.69	-
10	28.50	33.50	5.00	4.50	1.750	0.000	49.6	1.686	1.562	0.720	50.89	6.27	57.16	0.720	50.89	-
11	33.50	38.50	5.00	4.50	0.800	0.000	50.6	1.939	1.812	0.330	23.33	6.27	29.60	0.330	23.33	-
12	38.50	43.50	5.00	4.50	0.000	40.000	52.6	2.202	2.070	0.900	63.62	6.27	69.89	0.900	63.62	-
13	43.50	48.50	5.00	4.50	0.000	36.000	51.6	2.460	2.331	0.893	63.09	6.27	69.36	0.893	63.09	-
14	48.50	53.50	5.00	4.50	0.400	0.000	46.6	2.693	2.576	0.165	11.66	6.27	17.93	0.165	11.66	-
15	53.50	54.00	0.50	4.50	0.000	37.000	51.6	2.719	2.706	1.118	7.90	0.63	8.53	1.118	7.90	31.33
	Lateral pressure coefficient =		0.5								Total Uplift Capacity (kips) =		426.08	Total friction capacity (kips) =		355.51
													OK	Factored Tip capacity (kips) =		498.30
										Weighted Average Skin Friction (ultimate) =	uplift	0.621	ksf	Total Comp. Capacity (kips) =	853.82
											compression	0.621	ksf			OK

Reinforcement Design:

Concrete Clear Cover (in) = 3.00

# of bars	Bar size #	Area per bar (sq.in.)	Clear spacing (in)	Bar area (sq.in.)	Steel required (sq.in)	Ultimate Lateral Reslst. (kcf) *	Minimum length (ft) **
15	8	0.79	9.05	11.85	11.46	0.530	15.92

Moment Check (ft-k)	
Induced *	314.79
φ Capacity ***	379.28
	OK

* see Passive (attached)
* see Broms method (attached)
*** see Maximum Factored Moment of a Circular Section (attached).

Minimum area of steel is OK
Minimum pier length is OK
Rebar spacing is OK

Broms Method for Laterally Loaded Caissons ,Piles,or Piers in Clay

(Reference "Drilled Shafts: Construction Procedures and Design Methods", ADSC No. ADSC-TL-4, August 1988

revised for LRFD

			S/leg (kips)	M/leg (k-ft)
Diameter of pier, dl:	**4.50**	ft		
Extension above grade, E:	**0.50**	ft		
Neglect at ground surface, N:	**4.50**	ft		
Ultimate Passive Pressure, P_p:	**0.530**	kcf	LC **48.99**	**0**
Reduction Factor, f:	**0.75**			
Nominal Passive Pressure (P_p*f), P_{pa}:	0.398	kcf		
# of pier dia. P_p acts over, N_d:	**3.00**			

Depth to Max. M, F (ft)

$$F = S / ((N_d / 3) * 9 * P_p * d_l)$$

LC **2.28**

Solved Brom's Equation for G_a (ft)

$$G_a = \sqrt{((S * (E + N + F / 2) + M) / ((N_d / 3) * 2.25 * P_{pa} * d_l))}$$

LC **8.64**

Minimum length of pier, L (ft)

$$L = E + N + F + G_a$$

LC **15.92**

Minimum length req'd, L: **15.92** ft

Max induced moment, M_u (k-ft)

$$M_u = S * (E + N + F) + M - (N_d / 3 * 9 * P_{pa} * d_l * F^2 / 2)$$

LC **314.79**

Individual Bars

Bar #	Angle from first bar (deg)	Distance to centroid (in)	Distance to neutral axis (in)	Distance to equivalent comp. zone (in)	Strain	Area of steel in compression (in^2)	Axial force (kips)	Moment (in-kips)
1	0.00	0.00	-23.08	-23.76	-0.01765	0.00	-47.12	0.00
2	24.00	9.35	-13.72	-14.41	-0.01049	0.00	-47.12	-440.84
3	48.00	17.09	-5.98	-6.67	-0.00458	0.00	-47.12	-805.46
4	72.00	21.87	-1.20	-1.89	-0.00092	0.00	-20.94	-458.05
5	96.00	22.87	-0.20	-0.89	-0.00015	0.00	-3.53	-80.72
6	120.00	19.92	-3.16	-3.84	-0.00241	0.00	-47.12	-938.64
7	144.00	13.52	-9.56	-10.24	-0.00731	0.00	-47.12	-637.07
8	168.00	4.78	-18.29	-18.98	-0.01399	0.00	-47.12	-225.34
9	192.00	-4.78	-27.86	-28.55	-0.0213	0.00	-47.12	225.34
10	216.00	-13.52	-36.60	-37.28	-0.02798	0.00	-47.12	637.07
11	240.00	-19.92	-43.00	-43.68	-0.03288	0.00	-47.12	938.64
12	264.00	-22.87	-45.95	-46.64	-0.03514	0.00	-47.12	1077.91
13	288.00	-21.87	-44.95	-45.64	-0.03437	0.00	-47.12	1030.80
14	312.00	-17.09	-40.17	-40.86	-0.03072	0.00	-47.12	805.46
15	336.00	-9.35	-32.43	-33.12	-0.0248	0.00	-47.12	440.84