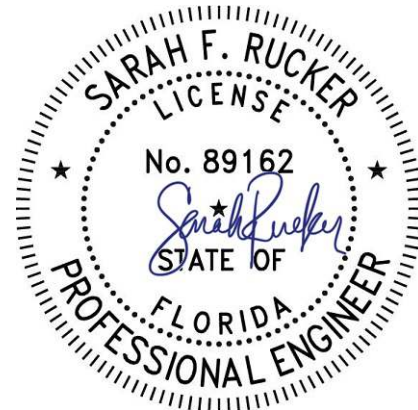




AMERICAN TOWER®
C O R P O R A T I O N

Structural Analysis Report

Structure : 300 ft Guyed Tower
ATC Site Name : FALLING CREEK FL, FL
ATC Asset Number : 24516
Engineering Number : 13666522_C3_03
Proposed Carrier : T-MOBILE
Carrier Site Name : 9JK0218A
Carrier Site Number : 9JK0218A
Site Location : Huntsville Church Rd
Lake City, FL 32055-7044
30.250700,-82.744300
County : Columbia
Date : May 8, 2021
Max Usage : 47%
Result : Pass



Prepared By:
Thomas Pham
Structural Engineer I

Reviewed By:

This item has been electronically signed and sealed by
Sarah F. Rucker, PE on the date shown using a digital signature.
Printed copies are not considered signed and sealed and the
signature must be verified on any electronic copies.

cosign

COA: 9053



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Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 300 ft guyed tower to reflect the change in loading by T-MOBILE.

Supporting Documents

Tower Drawings	FWT Job #21618000, dated June 30, 2000
Foundation Drawing	Putnam Project #T99-G-208, dated July 7, 2000
Geotechnical Report	N&A Project #T99-G-208, dated October 21, 1999

Analysis

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed:	117 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	30 mph (3-Second Gust) w/ 1/4" radial ice concurrent
Code:	ANSI/TIA-222-H / 2018 IBC / 7th Ed. (2020) Florida Building Code
Exposure Category:	C
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Spectral Response:	$S_s = 0.09$, $S_1 = 0.05$
Site Class:	D - Stiff Soil

Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

If you have any questions or require additional information, please contact American Tower via email at Engineering@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.



Existing and Reserved Equipment

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
300.0	9	Antel RWA-80016CF ____	Sector Frame	(9) 1 5/8" Coax	ALLTEL COMMUNICATIONS, LLC
250.0	2	Gabriel P-24A36G+-U	Sector Frame	(2) 1 5/8" Coax	T-MOBILE
175.0	1	Ceragon 1500HP/RFU-HP	Leg	(1) 7/8" Coax	
	1	Andrew Microwaves HPX6-59-P3A/K			
	1	Ceragon FibeAir RFU-C			

Equipment to be Removed

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
250.0	1	Andrew ATBT-TOP-24V	-	(6) 1 5/8" Coax (1) 1.58" (40.1mm) Hybrid	T-MOBILE
	3	Nokia FRIG w/o Solar Shield			
	9	CellMax CMA-BDHH/6521/E0-6			
	1	Nokia 3-Sector RF Module			
	3	Nokia FXFB			
	1	Nokia ASU9338TYP01			

Proposed Equipment

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
250.0	3	Ericsson Radio 4460 B25+B66	Sector Frame	(2) 1.99" (50.7mm) Hybrid	T-MOBILE
	3	Ericsson Radio 4480 B71+B85A			
	3	Commscope FFVV-65C-R3-V1			

¹ Contracted elevations are shown for appurtenances within contracted installation tolerances. Appurtenances outside of contract limits are shown at installed elevations.

Install proposed coax alongside existing T-MOBILE coax.

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Legs	36%	Pass
Diagonals	20%	Pass
Horizontals	47%	Pass
Guys	39%	Pass

Foundations

Reaction Component	Original Design Reactions	Factored Design Reactions*	Analysis Reactions	% of Design
Base Axial (kips)	328.6	443.6	162.1	37%
A1 Uplift (kips)	151.3	204.3	67.0	33%
A1 Shear (kips)	143.6	193.9	65.2	34%
* The design reactions are factored by 1.35 per ANSI/TIA-222-H, Sec. 15.6.2				

The structure base reactions resulting from this analysis are acceptable when compared to those shown on the original structure drawings, therefore no modification or reinforcement of the foundation will be required.

Deflection, Twist and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Twist (°)	Sway (Rotation) (°)
250.0	Commscope FFVV-65C-R3-V1	T-MOBILE	0.093	0.013	0.055
	Ericsson Radio 4460 B25+B66				
	Ericsson Radio 4480 B71+B85A				
	Gabriel P-24A36G+-U				
175.0	Andrew Microwaves HPX6-59-P3A/K		0.050	0.010	0.041

*Deflection, Twist and Sway was evaluated considering a design wind speed of 60 mph (3-Second Gust) per ANSI/TIA-222-H



Standard Conditions

All engineering services performed by ATC Tower Services LLC are prepared on the basis that the information used is current and correct. This information may consist of, but is not limited to the following:

- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of ATC Tower Services LLC

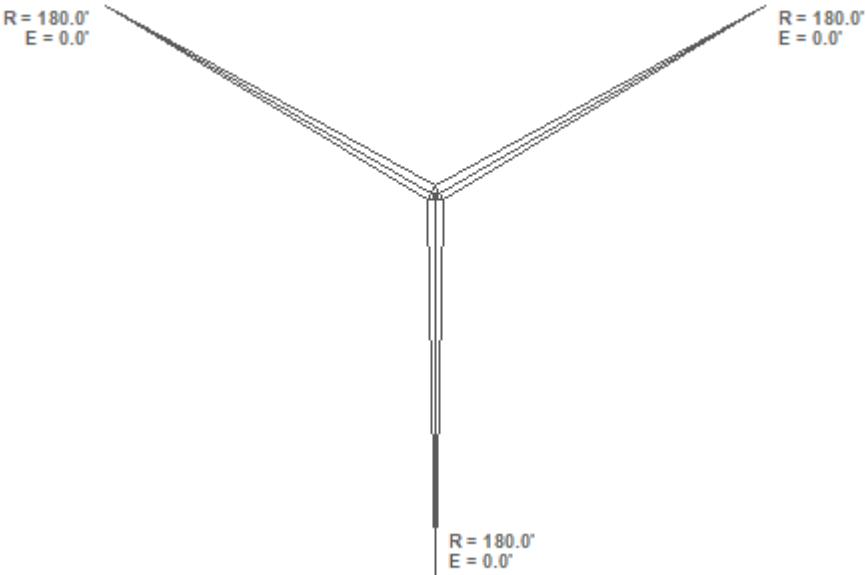
It is the responsibility of the client to ensure that the information provided to ATC Tower Services LLC and used in the performance of our engineering services is correct and complete.

All assets of American Tower Corporation, its affiliates and subsidiaries (collectively "American Tower") are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with the drawings and specifications.

Unless explicitly agreed by both the client and ATC Tower Services LLC, all services will be performed in accordance with the current revision of ANSI/TIA-222.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. ATC Tower Services LLC is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.

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Job Information		
Client : T-MOBILE		
Tower : 24516	Location : FALLING CREEK	Base Width : 4.00 ft
Code : ANSI/TIA-222-H	Topo Method: Method 1	
Risk Cat : II	Topo: 1	Tower Ht : 300.00 ft
	Exposure : C	Shape : Triangle

Guy Anchor Design Loads				
Radius (ft)	Drop (ft)	Azimuth (°)	Uplift (kip)	Shear (kip)
180.00	0.00	0	66.95	65.16
180.00	0.00	240	66.99	65.16
180.00	0.00	120	66.99	65.16

Global Base Foundation Design Loads	
Vertical (kip)	Horizontal (kip)
162.13	1.90

Site Number: 24516

Code:

ANSI/TIA-222-H

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Site Name: FALLING CREEK FL, FL

Engineering Number: 13666522_C3_03

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Customer: T-MOBILE

Analysis Parameters

Location:	Columbia County, FL	Height (ft):	300
Code:	ANSI/TIA-222-H	Base Elevation (ft):	0.00
Shape:	Triangle	Bottom Face Width (ft):	4.00
Tower Manufacturer:	FWT Inc	Top Face Width (ft):	4.00
Tower Type:	Guyed		
Kd:	0.85		
Ke:	0.99		

Ice & Wind Parameters

Exposure Category:	C	Design Windspeed Without Ice:	117 mph
Risk Category:	II	Design Windspeed With Ice:	30 mph
Topographic Factor Procedure:	Method 1	Operational Windspeed:	60 mph
Topographic Category:	1	Design Ice Thickness:	0.25 in
Crest Height:	0 ft	HMSL:	155.00 ft

Seismic Parameters

Analysis Method: Equivalent Lateral Force Method

Site Class: D - Stiff Soil

Period Based on Rayleigh Method (sec): 0.58

T_L (sec):	8	p:	1.3	C_s :	0.031
S_s :	0.086	S_1 :	0.051	C_s , Max:	0.047
F_a :	1.600	F_v :	2.400	C_s , Min:	0.030
S_{ds} :	0.092	S_{d1} :	0.082		

Load Cases

1.2D + 1.0W Normal	117 mph Normal with No Ice
1.2D + 1.0W 60 deg	117 mph 60 degree with No Ice
1.2D + 1.0W 90 deg	117 mph 90 degree with No Ice
1.2D + 1.0W 120 deg	117 mph 120 degree with No Ice
1.2D + 1.0W 180 deg	117 mph 180 degree with No Ice
1.2D + 1.0W 210 deg	117 mph 210 degree with No Ice
1.2D + 1.0W 240 deg	117 mph 240 degree with No Ice
1.2D + 1.0W 300 deg	117 mph 300 degree with No Ice
1.2D + 1.0W 330 deg	117 mph 330 degree with No Ice
1.2D + 1.0Di + 1.0Wi Normal	30 mph Normal with 0.25 in Radial Ice
1.2D + 1.0Di + 1.0Wi 60 deg	30 mph 60 deg with 0.25 in Radial Ice
1.2D + 1.0Di + 1.0Wi 90 deg	30 mph 90 deg with 0.25 in Radial Ice
1.2D + 1.0Di + 1.0Wi 120 deg	30 mph 120 deg with 0.25 in Radial Ice
1.2D + 1.0Di + 1.0Wi 180 deg	30 mph 180 deg with 0.25 in Radial Ice
1.2D + 1.0Di + 1.0Wi 210 deg	30 mph 210 deg with 0.25 in Radial Ice
1.2D + 1.0Di + 1.0Wi 240 deg	30 mph 240 deg with 0.25 in Radial Ice
1.2D + 1.0Di + 1.0Wi 300 deg	30 mph 300 deg with 0.25 in Radial Ice
1.2D + 1.0Di + 1.0Wi 330 deg	30 mph 330 deg with 0.25 in Radial Ice

Site Number: 24516

Code:

ANSI/TIA-222-H

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Site Name: FALLING CREEK FL, FL

Engineering Number: 13666522_C3_03

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Customer: T-MOBILE

Analysis Parameters

1.2D + 1.0Ev + 1.0Eh Normal	Seismic Normal
1.2D + 1.0Ev + 1.0Eh 60 deg	Seismic 60 deg
1.2D + 1.0Ev + 1.0Eh 90 deg	Seismic 90 deg
1.2D + 1.0Ev + 1.0Eh 120 deg	Seismic 120 deg
1.2D + 1.0Ev + 1.0Eh 180 deg	Seismic 180 deg
1.2D + 1.0Ev + 1.0Eh 210 deg	Seismic 210 deg
1.2D + 1.0Ev + 1.0Eh 240 deg	Seismic 240 deg
1.2D + 1.0Ev + 1.0Eh 300 deg	Seismic 300 deg
1.2D + 1.0Ev + 1.0Eh 330 deg	Seismic 330 deg
1.0D + 1.0W Service Normal	Serviceability - 60 mph Wind Normal
1.0D + 1.0W Service 60 deg	Serviceability - 60 mph Wind 60 deg
1.0D + 1.0W Service 90 deg	Serviceability - 60 mph Wind 90 deg
1.0D + 1.0W Service 120 deg	Serviceability - 60 mph Wind 120 deg
1.0D + 1.0W Service 180 deg	Serviceability - 60 mph Wind 180 deg
1.0D + 1.0W Service 210 deg	Serviceability - 60 mph Wind 210 deg
1.0D + 1.0W Service 240 deg	Serviceability - 60 mph Wind 240 deg
1.0D + 1.0W Service 300 deg	Serviceability - 60 mph Wind 300 deg
1.0D + 1.0W Service 330 deg	Serviceability - 60 mph Wind 330 deg

Site Number: 24516

Code:

ANSI/TIA-222-H

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Site Name: FALLING CREEK FL, FL

Engineering Number: 13666522_C3_03

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Customer: T-MOBILE

Tower Loading**Discrete Appurtenance Properties** 1.2D + 1.0W

Elevation (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc.(ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
300.0	Antel RWA-80016CF	9	31	10.9	8.0	11.2	5.9	0.80	0.68	0.0	0.0	47.24	2145	335
300.0	Flat Light Sector	3	400	17.9	0.0	0.0	0.0	0.75	0.67	0.0	0.0	47.24	1084	1440
250.0	Commscope FFVV-	3	125	21.1	8.0	25.2	9.3	0.80	0.63	0.0	0.0	45.46	1234	449
250.0	Ericsson Radio 4460	3	109	2.6	1.6	15.7	12.1	0.80	0.67	0.0	0.0	45.46	159	392
250.0	Ericsson Radio 4480	3	84	2.9	1.8	15.7	7.5	0.80	0.67	0.0	0.0	45.46	177	302
250.0	Flat Light Sector	3	400	17.9	0.0	0.0	0.0	0.75	0.67	0.0	0.0	45.46	1043	1440
250.0	Gabriel P-24A36G+-U	2	40	4.2	3.0	36.0	0.0	1.00	1.00	0.0	0.0	45.46	324	96
196.0	Torque Arms	1	300	12.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	43.19	441	360
175.0	Andrew Microwaves	1	320	41.3	6.5	77.5	53.3	1.00	1.00	-4.0	5897.8	41.97	1474	384
175.0	Ceragon	1	15	1.8	1.6	5.7	11.0	1.00	0.50	-4.0	126.2	41.97	32	18
175.0	Ceragon FibeAir RFU-	1	9	0.5	0.7	7.9	3.4	1.00	0.50	-4.0	37.1	41.97	9	11
Totals		30	4356	349.2									8122	5227

Discrete Appurtenance Properties 1.2D + 1.0Di + 1.0Wi

Elevation (ft)	Description	Qty	Ice Wt (lb)	Ice EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc.(ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
300.0	Antel RWA-80016CF	9	67	11.2	8.0	11.2	5.9	0.80	0.68	0.0	0.0	3.11	145	659
300.0	Flat Light Sector	3	454	20.6	0.0	0.0	0.0	0.75	0.67	0.0	0.0	3.11	82	1601
250.0	Commscope FFVV-	3	197	21.8	8.0	25.2	9.3	0.80	0.63	0.0	0.0	2.99	84	667
250.0	Ericsson Radio 4460	3	125	2.7	1.6	15.7	12.1	0.80	0.67	0.0	0.0	2.99	11	439
250.0	Ericsson Radio 4480	3	97	3.0	1.8	15.7	7.5	0.80	0.67	0.0	0.0	2.99	12	342
250.0	Flat Light Sector	3	453	20.6	0.0	0.0	0.0	0.75	0.67	0.0	0.0	2.99	79	1599
250.0	Gabriel P-24A36G+-U	2	63	9.2	3.0	36.0	0.0	1.00	1.00	0.0	0.0	2.99	47	143
196.0	Torque Arms	1	336	13.4	0.0	0.0	0.0	1.00	1.00	0.0	0.0	2.84	32	396
175.0	Andrew Microwaves	1	459	42.0	6.5	77.5	53.3	1.00	1.00	-4.0	393.7	2.76	98	523
175.0	Ceragon	1	23	1.9	1.6	5.7	11.0	1.00	0.50	-4.0	9.0	2.76	2	27
175.0	Ceragon FibeAir RFU-	1	12	0.6	0.7	7.9	3.4	1.00	0.50	-4.0	2.8	2.76	1	13
Totals		30	5536	383.3									593	6407

Discrete Appurtenance Properties 1.0D + 1.0W Service

Elevation (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc.(ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
300.0	Antel RWA-80016CF	9	31	10.9	8.0	11.2	5.9	0.80	0.68	0.0	0.0	12.42	564	279
300.0	Flat Light Sector	3	400	17.9	0.0	0.0	0.0	0.75	0.67	0.0	0.0	12.42	285	1200
250.0	Commscope FFVV-	3	125	21.1	8.0	25.2	9.3	0.80	0.63	0.0	0.0	11.96	324	374
250.0	Ericsson Radio 4460	3	109	2.6	1.6	15.7	12.1	0.80	0.67	0.0	0.0	11.96	42	327
250.0	Ericsson Radio 4480	3	84	2.9	1.8	15.7	7.5	0.80	0.67	0.0	0.0	11.96	47	252
250.0	Flat Light Sector	3	400	17.9	0.0	0.0	0.0	0.75	0.67	0.0	0.0	11.96	274	1200
250.0	Gabriel P-24A36G+-U	2	40	4.2	3.0	36.0	0.0	1.00	1.00	0.0	0.0	11.96	85	80
196.0	Torque Arms	1	300	12.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	11.36	116	300
175.0	Andrew Microwaves	1	320	41.3	6.5	77.5	53.3	1.00	1.00	-4.0	1551.0	11.04	388	320
175.0	Ceragon	1	15	1.8	1.6	5.7	11.0	1.00	0.50	-4.0	33.2	11.04	8	15
175.0	Ceragon FibeAir RFU-	1	9	0.5	0.7	7.9	3.4	1.00	0.50	-4.0	9.8	11.04	2	9
Totals		30	4356	349.2									2136	4356

Site Number: 24516

Code:

ANSI/TIA-222-H

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Site Name: FALLING CREEK FL, FL

Engineering Number: 13666522_C3_03

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Customer: T-MOBILE

Tower Loading

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Qty	Width (in)	Weight (lb/ft)	Pct In Block	Spread On Faces	Bundling Arrangement	Cluster Dia (in)	Out Of Zone	Spacing (in)	Orientation Factor	Ka Override
0.00	300.0	1 5/8" Coax	9	1.98	0.82	100	2	Individual	0.00	N	1.00	1.00	0.00
0.00	250.0	1 5/8" Coax	2	1.98	0.82	63	2	Block	0.00	N	1.00	1.00	0.00
0.00	250.0	1.99" (50.7mm)	2	1.99	1.90	100	2	Individual	0.00	N	1.00	1.00	0.00
0.00	175.0	7/8" Coax	1	1.09	0.33	100	2	Individual	0.00	N	1.00	1.00	0.01

Site Number: 24516

Code:

ANSI/TIA-222-H

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Site Name: FALLING CREEK FL, FL

Engineering Number: 13666522_C3_03

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Customer: T-MOBILE

Equivalent Lateral Force Method

Spectral Response Acceleration for Short Period (S_s):	0.09
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.05
Long-Period Transition Period (T_L - Seconds):	8
Importance Factor (I_e):	1.00
Site Coefficient F_a :	1.60
Site Coefficient F_v :	2.40
Response Modification Coefficient (R):	3.00
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.09
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.08
Seismic Response Coefficient (C_s):	0.03
Upper Limit C_s :	0.05
Lower Limit C_s :	0.03
Period based on Rayleigh Method (sec):	0.58
Redundancy Factor (p):	1.30
Seismic Force Distribution Exponent (k):	1.04
Total Unfactored Dead Load:	31.45 k
Seismic Base Shear (E):	1.25 k

LoadCase 1.2D + 1.0Ev + 1.0Eh**Seismic**

Section	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
17	290.00	1,335	482,674	0.077	96	1,626
16	270.00	1,429	479,846	0.076	95	1,741
15	250.00	1,648	510,675	0.081	101	2,007
14	230.00	2,167	615,770	0.098	122	2,640
13	210.00	2,103	543,791	0.086	108	2,562
12	190.00	2,103	490,089	0.078	97	2,562
11	170.00	1,944	403,577	0.064	80	2,368
10	150.00	1,945	354,667	0.056	70	2,370
9	130.00	2,021	317,606	0.050	63	2,463
8	110.00	1,614	213,141	0.034	42	1,966
7	90.00	1,614	173,031	0.027	34	1,966
6	70.00	1,697	140,167	0.022	28	2,068
5	50.00	1,824	106,209	0.017	21	2,222
4	30.00	1,824	62,471	0.010	12	2,222
3	14.00	1,077	16,715	0.003	3	1,313
2	7.00	205	1,547	0.000	0	250
1	3.00	539	1,689	0.000	0	657
Antel RWA-80016CF ____	300.00	279	104,508	0.017	21	340
Flat Light Sector Frames	300.00	1,200	449,495	0.071	89	1,462
Commscope FFVV-65C-R3-V1	250.00	374	115,856	0.018	23	455
Ericsson Radio 4460 B25+B66	250.00	327	101,351	0.016	20	398
Ericsson Radio 4480 B71+B85A	250.00	252	78,105	0.012	15	307
Flat Light Sector Frames	250.00	1,200	371,930	0.059	74	1,462
Gabriel P-24A36G+-U	250.00	80	24,795	0.004	5	97

Site Number: 24516

Code:

ANSI/TIA-222-H

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Site Name: FALLING CREEK FL, FL

Engineering Number: 13666522_C3_03

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Customer: T-MOBILE

Equivalent Lateral Force Method

Torque Arms	196.00	300	72,211	0.011	14	366
Andrew Microwaves HPX6-59-P3A/K	175.00	320	68,470	0.011	14	390
Ceragon 1500HP/RFU-HP	175.00	15	3,295	0.001	1	19
Ceragon FibeAir RFU-C	175.00	9	1,926	0.000	0	11
		31,445	6,305,605	1.000	1,250	38,311

Site Number: 24516

Code:

ANSI/TIA-222-H

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Site Name: FALLING CREEK FL, FL

Engineering Number: 13666522_C3_03

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Customer: T-MOBILE

Force/Stress Summary

Section: 1		Base		Bot Elev (ft): 0.00				Height (ft): 6.000								
		Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use	
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	%	Controls
LEG	SOL - 2 3/4" SOLID	-61.73	1.2D + 1.0W 60 deg	3.21	100	100	100	56.1	50.0	212.33	0	0	0.00	0.00	29	Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG	SOL - 5/8" SOLID	-0.54	1.2D + 1.0W Normal	4.282	50	50	50	148.2	50.0	3.16	0	0	0.00	0.00		Member X
Max Tension Member		Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk Shear		Use	Controls
		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Bolts	Holes	phiRnv		phiRn	phit Pn	(kip)	%	
LEG		0.00		0	0	0.00	0	0	0	0.00		0.00			0	
HORIZ	SAE - 2X2X0.1875	10.98	1.2D + 1.0W 60 deg	36	58	23.17	0	0	0	0.00		0.00	0.00		47	Member
DIAG		0.00		0	0	0.00	0	0	0	0.00		0.00	0.00		0	

Section: 2		1		Bot Elev (ft): 6.00				Height (ft): 2.000								
		Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use	
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	%	Controls
LEG	SOL - 2 3/4" SOLID	-59.01	1.2D + 1.0W 60 deg	2.00	100	100	100	34.9	50.0	244.50	0	0	0.00	0.00	24	Member X
HORIZ	SAE - 2X2X0.1875	-0.06	1.2D + 1.0W Normal	4.000	100	100	100	121.1	36.0	13.87	0	0	0.00	0.00	0	Member Z
DIAG		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00		
Max Tension Member		Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk Shear		Use	Controls
		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Bolts	Holes	phiRnv		phiRn	phit Pn	(kip)	%	
LEG		0.00		0	0	0.00	0	0	0	0.00		0.00			0	
HORIZ		0.00		0	0	0.00	0	0	0	0.00		0.00	0.00		0	
DIAG	SOL - 5/8" SOLID	1.81	1.2D + 1.0W Normal	50	65	13.81	0	0	0	0.00		0.00	0.00		13	Member

Section: 3		1		Bot Elev (ft): 8.00				Height (ft): 12.000								
		Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use	
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	%	Controls
LEG	SOL - 2 3/4" SOLID	-60.76	1.2D + 1.0W 60 deg	3.83	100	100	100	66.9	50.0	192.67	0	0	0.00	0.00	31	Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG	SOL - 5/8" SOLID	-1.81	1.2D + 1.0W Normal	5.540	50	50	50	191.8	50.0	1.88	0	0	0.00	0.00		Member X
Max Tension Member		Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk Shear		Use	Controls
		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Bolts	Holes	phiRnv		phiRn	phit Pn	(kip)	%	
LEG		0.00		0	0	0.00	0	0	0	0.00		0.00			0	
HORIZ	SAE - 2X2X0.1875	1.53	1.2D + 1.0W Normal	36	58	23.17	0	0	0	0.00		0.00	0.00		6	Member
DIAG		0.00		0	0	0.00	0	0	0	0.00		0.00	0.00		0	

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Site Name: FALLING CREEK FL, FL

Engineering Number: 13666522_C3_03

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Customer: T-MOBILE

Force/Stress Summary

Section: 4		1		Bot Elev (ft): 20.00				Height (ft): 20.000								
		Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use	
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls
LEG	SOL - 2 3/4" SOLID	-62.38	1.2D + 1.0W 60 deg	3.80	100	100	100	66.3	50.0	193.76	0	0	0.00	0.00	32	Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG	SOL - 5/8" SOLID	-1.33	1.2D + 1.0W Normal	5.517	50	50	50	191.0	50.0	1.90	0	0	0.00	0.00		Member X
		Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk	Shear	Use	
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv	(kip)	phiRn	phit	Pn	%	Controls
LEG		0.00		0	0	0.00	0	0		0.00		0.00			0	
HORIZ	SAE - 2X2X0.1875	1.61	1.2D + 1.0W Normal	36	58	23.17	0	0		0.00		0.00		0.00	6	Member
DIAG		0.00		0	0	0.00	0	0		0.00		0.00		0.00	0	

Section: 5		1		Bot Elev (ft): 40.00				Height (ft): 20.000								
		Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use	
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls
LEG	SOL - 2 3/4" SOLID	-61.27	1.2D + 1.0W 60 deg	3.80	100	100	100	66.3	50.0	193.76	0	0	0.00	0.00	31	Member X
HORIZ	SAE - 2X2X0.1875	-0.79	1.2D + 1.0W 60 deg	4.000	100	100	100	121.1	36.0	13.87	0	0	0.00	0.00	5	Member Z
DIAG	SOL - 5/8" SOLID	-0.58	1.2D + 1.0W Normal	5.517	50	50	50	191.0	50.0	1.90	0	0	0.00	0.00		Member X
		Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk	Shear	Use	
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv	(kip)	phiRn	phit	Pn	%	Controls
LEG		0.00		0	0	0.00	0	0		0.00		0.00			0	
HORIZ	SAE - 2X2X0.1875	1.54	1.2D + 1.0W Normal	36	58	23.17	0	0		0.00		0.00		0.00	6	Member
DIAG	SOL - 5/8" SOLID	2.01	1.2D + 1.0W 90 deg	50	65	13.81	0	0		0.00		0.00		0.00	14	Member

Section: 6		2		Bot Elev (ft): 60.00				Height (ft): 20.000								
		Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use	
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls
LEG	SOL - 2 1/2" SOLID	-54.33	1.2D + 1.0W 60 deg	3.80	100	100	100	73.0	50.0	149.71	0	0	0.00	0.00	36	Member X
HORIZ	SAE - 2X2X0.1875	-1.85	1.2D + 1.0W 90 deg	4.000	100	100	100	121.1	36.0	13.87	0	0	0.00	0.00	13	Member Z
DIAG	SOL - 5/8" SOLID	-1.20	1.2D + 1.0W Normal	5.517	50	50	50	191.0	50.0	1.90	0	0	0.00	0.00		Member X
		Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk	Shear	Use	
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv	(kip)	phiRn	phit	Pn	%	Controls
LEG		0.00		0	0	0.00	0	0		0.00		0.00			0	
HORIZ	SAE - 2X2X0.1875	1.87	1.2D + 1.0W 60 deg	36	58	23.17	0	0		0.00		0.00		0.00	8	Member
DIAG	SOL - 5/8" SOLID	2.81	1.2D + 1.0W 90 deg	50	65	13.81	0	0		0.00		0.00		0.00	20	Member

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Force/Stress Summary

Section: 7		2		Bot Elev (ft): 80.00				Height (ft): 20.000												
				Pu				Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use	
				(kip)	Load Case			(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	%	Controls
Max Compression Member																				
LEG	SOL - 2 1/2" SOLID	-53.97	1.2D + 1.0W 180 deg	3.80	100	100	100	73.0	50.0	149.71	0	0	0.00	0.00	36	Member X				
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0					
DIAG	SOL - 5/8" SOLID	-1.58	1.2D + 1.0W Normal	5.517	50	50	50	191.0	50.0	1.90	0	0	0.00	0.00		Member X				
				Pu				Fy	Fu	Phit	Pn	Num	Num	Shear	Bear	Blk	Shear	Use		
				(kip)	Load Case			(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv	phiRn	phit	Pn	%	Controls	
Max Tension Member																				
LEG		0.00		0	0	0.00	0	0	0.00	0.00								0		
HORIZ	SAE - 2X2X0.1875	1.71	1.2D + 1.0W Normal	36	58	23.17	0	0	0.00	0.00						0.00		7	Member	
DIAG		0.00		0	0	0.00	0	0	0.00	0.00						0.00		0		

Section: 8		2		Bot Elev (ft): 100.0				Height (ft): 20.000												
				Pu				Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use	
				(kip)	Load Case			(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	%	Controls
Max Compression Member																				
LEG	SOL - 2 1/2" SOLID	-53.37	1.2D + 1.0W 60 deg	3.80	100	100	100	73.0	50.0	149.71	0	0	0.00	0.00	35	Member X				
HORIZ	SAE - 2X2X0.1875	-0.43	1.2D + 1.0W Normal	4.000	100	100	100	121.1	36.0	13.87	0	0	0.00	0.00	3	Member Z				
DIAG	SOL - 5/8" SOLID	-0.65	1.2D + 1.0W Normal	5.517	50	50	50	191.0	50.0	1.90	0	0	0.00	0.00		Member X				
				Pu				Fy	Fu	Phit	Pn	Num	Num	Shear	Bear	Blk	Shear	Use		
				(kip)	Load Case			(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv	phiRn	phit	Pn	%	Controls	
Max Tension Member																				
LEG		0.00		0	0	0.00	0	0	0.00	0.00								0		
HORIZ	SAE - 2X2X0.1875	1.63	1.2D + 1.0W 60 deg	36	58	23.17	0	0	0.00	0.00						0.00		7	Member	
DIAG	SOL - 5/8" SOLID	1.83	1.2D + 1.0W 120 deg	50	65	13.81	0	0	0.00	0.00						0.00		13	Member	

Section: 9		3		Bot Elev (ft): 120.0				Height (ft): 20.000												
				Pu				Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use	
				(kip)	Load Case			(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	%	Controls
Max Compression Member																				
LEG	SOL - 2 3/4" SOLID	-62.61	1.2D + 1.0W 120 deg	3.80	100	100	100	66.3	50.0	193.76	0	0	0.00	0.00	32	Member X				
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0					
DIAG	SOL - 3/4" SOLID	-1.12	1.2D + 1.0W Normal	5.517	50	50	50	158.9	50.0	3.95	0	0	0.00	0.00		Member X				
				Pu				Fy	Fu	Phit	Pn	Num	Num	Shear	Bear	Blk	Shear	Use		
				(kip)	Load Case			(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv	phiRn	phit	Pn	%	Controls	
Max Tension Member																				
LEG		0.00		0	0	0.00	0	0	0.00	0.00								0		
HORIZ	SAE - 2.5X2.5X0.1875	2.06	1.2D + 1.0W 60 deg	36	58	29.22	0	0	0.00	0.00						0.00		7	Member	
DIAG	SOL - 3/4" SOLID	0.44	1.2D + 1.0W 90 deg	50	65	19.88	0	0	0.00	0.00						0.00		2	Member	

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Force/Stress Summary

Section: 10			3	Bot Elev (ft): 140.0				Height (ft): 20.000											
				Pu				Len	Bracing %			F'y	Phic	Pn Num	Num	Shear	Bear	Use	
Max Compression Member				(kip)	Load Case			(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv (kip)	phiRn (kip)	% Controls
LEG	SOL - 2 3/4" SOLID			-62.06	1.2D + 1.0W 120 deg	3.80	100	100	100	66.3	50.0	193.76	0	0	0	0	0.00	0.00	32 Member X
HORIZ				0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0	0	0.00	0.00	0
DIAG	SOL - 3/4" SOLID			-2.44	1.2D + 1.0W Normal	5.517	50	50	50	158.9	50.0	3.95	0	0	0	0	0.00	0.00	Member X
				Pu				Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk Shear	Use	
Max Tension Member				(kip)	Load Case			(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv (kip)		phiRn (kip)	phit Pn (kip)	% Controls	
LEG				0.00		0	0	0	0.00	0	0	0	0	0.00		0.00		0	
HORIZ SAE - 2.5X2.5X0.1875				1.61	1.2D + 1.0W Normal	36	58	29.22	0	0	0	0	0.00		0.00		0.00	5 Member	
DIAG SOL - 3/4" SOLID				0.30	1.2D + 1.0W 60 deg	50	65	19.88	0	0	0	0	0.00		0.00		0.00	1 Member	

Section: 11			3	Bot Elev (ft): 160.0				Height (ft): 20.000											
				Pu				Len	Bracing %			F'y	Phic	Pn Num	Num	Shear	Bear	Use	
Max Compression Member				(kip)	Load Case			(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv (kip)	phiRn (kip)	% Controls
LEG	SOL - 2 3/4" SOLID			-51.58	1.2D + 1.0W Normal	3.80	100	100	100	66.3	50.0	193.76	0	0	0	0	0.00	0.00	26 Member X
HORIZ				0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0	0	0.00	0.00	0
DIAG	SOL - 3/4" SOLID			-1.44	1.2D + 1.0W Normal	5.517	50	50	50	158.9	50.0	3.95	0	0	0	0	0.00	0.00	Member X
				Pu				Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk Shear	Use	
Max Tension Member				(kip)	Load Case			(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv (kip)		phiRn (kip)	phit Pn (kip)	% Controls	
LEG				0.00		0	0	0	0.00	0	0	0	0	0.00		0.00		0	
HORIZ SAE - 2.5X2.5X0.1875				1.52	1.2D + 1.0W Normal	36	58	29.22	0	0	0	0	0.00		0.00		0.00	5 Member	
DIAG SOL - 3/4" SOLID				0.23	1.2D + 1.0W Normal	50	65	19.88	0	0	0	0	0.00		0.00		0.00	1 Member	

Section: 12			4	Bot Elev (ft): 180.0				Height (ft): 20.000											
				Pu				Len	Bracing %			F'y	Phic	Pn Num	Num	Shear	Bear	Use	
Max Compression Member				(kip)	Load Case			(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv (kip)	phiRn (kip)	% Controls
LEG	SOL - 2 3/4" SOLID			-64.00	1.2D + 1.0W Normal	3.80	100	100	100	66.3	50.0	193.76	0	0	0	0	0.00	0.00	33 Member X
HORIZ SAE - 2.5X2.5X0.25				-2.42	1.2D + 1.0W Normal	4.000	100	100	100	108.9	36.0	26.87	0	0	0	0	0.00	0.00	8 Member Z
DIAG	SOL - 7/8" SOLID			-0.23	1.2D + 1.0W Normal	5.517	50	50	50	136.2	50.0	7.32	0	0	0	0	0.00	0.00	Member X
				Pu				Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk Shear	Use	
Max Tension Member				(kip)	Load Case			(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv (kip)		phiRn (kip)	phit Pn (kip)	% Controls	
LEG SOL - 2 3/4" SOLID				1.22	1.2D + 1.0W 60 deg	50	65	267.28	0	0	0	0	0.00		0.00			0 Member	
HORIZ SAE - 2.5X2.5X0.25				4.63	1.2D + 1.0W 180 deg	36	58	38.56	0	0	0	0	0.00		0.00		0.00	12 Member	
DIAG SOL - 7/8" SOLID				0.67	1.2D + 1.0W 60 deg	50	65	27.06	0	0	0	0	0.00		0.00		0.00	2 Member	

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Customer: T-MOBILE

Force/Stress Summary

Section: 13		4	Bot Elev (ft): 200.0				Height (ft): 20.000								
		Pu			Len	Bracing %		F'y	Phic	Pn	Num	Shear		Bear	Use
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	
LEG	SOL - 2 3/4" SOLID	-58.65	1.2D + 1.0W Normal	3.80	100	100	100	66.3	50.0	193.76	0	0	0.00	0.00	30 Member X
HORIZ	SAE - 2.5X2.5X0.25	-0.16	1.2D + 1.0W Normal	4.000	100	100	100	108.9	36.0	26.87	0	0	0.00	0.00	0 Member Z
DIAG	SOL - 7/8" SOLID	-2.67	1.2D + 1.0W Normal	5.517	50	50	50	136.2	50.0	7.32	0	0	0.00	0.00	Member X
		Pu			Fy	Fu	Phit	Pn	Num	Num	Shear	Bear	Blk Shear		
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	(kip)	(kip)	(kip)	Use	Controls
LEG		0.00		0	0	0.00	0	0	0.00	0.00				0	
HORIZ	SAE - 2.5X2.5X0.25	1.65	1.2D + 1.0W Normal	36	58	38.56	0	0	0.00	0.00		0.00		4	Member
DIAG	SOL - 7/8" SOLID	0.45	1.2D + 1.0W 60 deg	50	65	27.06	0	0	0.00	0.00		0.00		1	Member

Section: 14		4	Bot Elev (ft): 220.0				Height (ft): 20.000								
		Pu			Len	Bracing %		F'y	Phic	Pn	Num	Shear		Bear	Use
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	
LEG	SOL - 2 3/4" SOLID	-45.63	1.2D + 1.0W Normal	3.80	100	100	100	66.3	50.0	193.76	0	0	0.00	0.00	23 Member X
HORIZ	SAE - 2.5X2.5X0.25	-0.32	1.2D + 1.0W 60 deg	4.000	100	100	100	108.9	36.0	26.87	0	0	0.00	0.00	1 Member Z
DIAG	SOL - 7/8" SOLID	-1.50	1.2D + 1.0W Normal	5.517	50	50	50	136.2	50.0	7.32	0	0	0.00	0.00	Member X
		Pu			Fy	Fu	Phit	Pn	Num	Num	Shear	Bear	Blk Shear		
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	(kip)	(kip)	(kip)	Use	Controls
LEG	SOL - 2 3/4" SOLID	3.09	1.2D + 1.0W 60 deg	50	65	267.28	0	0	0.00	0.00				1	Member
HORIZ	SAE - 2.5X2.5X0.25	1.58	1.2D + 1.0W 60 deg	36	58	38.56	0	0	0.00	0.00		0.00		4	Member
DIAG	SOL - 7/8" SOLID	2.71	1.2D + 1.0W 60 deg	50	65	27.06	0	0	0.00	0.00		0.00		10	Member

Section: 15		5	Bot Elev (ft): 240.0				Height (ft): 20.000								
		Pu			Len	Bracing %		F'y	Phic	Pn	Num	Shear		Bear	Use
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	
LEG	SOL - 2 1/4" SOLID	-30.06	1.2D + 1.0W Normal	3.80	100	100	100	81.1	50.0	110.66	0	0	0.00	0.00	27 Member X
HORIZ	SAE - 2.5X2.5X0.25	-0.58	1.2D + 1.0W Normal	4.000	100	100	100	108.9	36.0	26.87	0	0	0.00	0.00	2 Member Z
DIAG	SOL - 7/8" SOLID	-3.45	1.2D + 1.0W Normal	5.517	50	50	50	136.2	50.0	7.32	0	0	0.00	0.00	Member X
		Pu			Fy	Fu	Phit	Pn	Num	Num	Shear	Bear	Blk Shear		
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	(kip)	(kip)	(kip)	Use	Controls
LEG		0.00		0	0	0.00	0	0	0.00	0.00				0	
HORIZ	SAE - 2.5X2.5X0.25	1.27	1.2D + 1.0W Normal	36	58	38.56	0	0	0.00	0.00		0.00		3	Member
DIAG	SOL - 7/8" SOLID	1.85	1.2D + 1.0W 90 deg	50	65	27.06	0	0	0.00	0.00		0.00		6	Member

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Site Name: FALLING CREEK FL, FL

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Customer: T-MOBILE

Force/Stress Summary

Section: 16			6		Bot Elev (ft): 260.0					Height (ft): 20.000								
			Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use		
Max Compression Member			(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls	
LEG	SOL - 2 1/4" SOLID		-14.81	1.2D + 1.0W 60 deg	3.80	100	100	100	81.1	50.0	110.66	0	0	0.00	0.00	13	Member X	
HORIZ			0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0		
DIAG	SOL - 3/4" SOLID		-0.81	1.2D + 1.0W Normal	5.517	50	50	50	158.9	50.0	3.95	0	0	0.00	0.00		Member X	
			Pu		Fy	Fu	Phit	Pn	Num	Num	Shear	Bear	Blk	Shear		Use		
Max Tension Member			(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv	phiRn	phiRn	phiRn		%	Controls	
LEG			0.00		0	0	0.00	0	0		0.00	0.00				0		
HORIZ	SAE - 2.5X2.5X0.1875		0.72	1.2D + 1.0W Normal	36	58	29.22	0	0		0.00	0.00		0.00		2	Member	
DIAG			0.00		0	0	0.00	0	0		0.00	0.00		0.00		0		

Section: 17			7		Bot Elev (ft): 280.0					Height (ft): 20.000								
			Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use		
Max Compression Member			(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls	
LEG	SOL - 2" SOLID		-16.27	1.2D + 1.0W Normal	3.80	100	100	100	91.2	50.0	76.96	0	0	0.00	0.00	21	Member X	
HORIZ	SAE - 2.5X2.5X0.1875		-0.71	1.2D + 1.0W 60 deg	4.000	100	100	100	108.5	36.0	20.46	0	0	0.00	0.00	3	Member Z	
DIAG	SOL - 3/4" SOLID		-0.06	1.2D + 1.0W Normal	5.517	50	50	50	158.9	50.0	3.95	0	0	0.00	0.00		Member X	
			Pu		Fy	Fu	Phit	Pn	Num	Num	Shear	Bear	Blk	Shear		Use		
Max Tension Member			(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv	phiRn	phiRn	phiRn		%	Controls	
LEG	SOL - 2" SOLID		10.13	1.2D + 1.0W 60 deg	50	65	141.37	0	0		0.00	0.00				7	Member	
HORIZ	SAE - 2.5X2.5X0.1875		0.93	1.2D + 1.0W Normal	36	58	29.22	0	0		0.00	0.00		0.00		3	Member	
DIAG	SOL - 3/4" SOLID		2.02	1.2D + 1.0W 60 deg	50	65	19.88	0	0		0.00	0.00		0.00		10	Member	

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Detailed Reactions

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	FX (kip)	FY (kip)	FZ (kip)	(-) = Uplift (+) = Down
1.2D + 1.0W Normal	0.00	00.00		1	0.00	156.46	-1.90	
	180.00	00.00	0	A1	0.00	-8.39	7.32	
	180.00	00.00	240	A1a	-41.89	-51.24	-26.51	
	180.00	00.00	120	A1b	41.89	-51.24	-26.51	
1.2D + 1.0W 60 deg	0.00	00.00		1	-1.42	162.13	-0.82	
	180.00	00.00	0	A1	-1.96	-25.24	23.79	
	180.00	00.00	240	A1a	-56.43	-66.99	-32.58	
	180.00	00.00	120	A1b	19.63	-25.21	-13.60	
1.2D + 1.0W 90 deg	0.00	00.00		1	-1.69	160.17	0.04	
	180.00	00.00	0	A1	-2.43	-38.33	36.71	
	180.00	00.00	240	A1a	-53.18	-62.66	-29.53	
	180.00	00.00	120	A1b	10.58	-14.03	-7.22	
1.2D + 1.0W 120 deg	0.00	00.00		1	-1.65	156.53	0.95	
	180.00	00.00	0	A1	-2.01	-51.26	49.54	
	180.00	00.00	240	A1a	-43.90	-51.30	-23.03	
	180.00	00.00	120	A1b	6.35	-8.38	-3.67	
1.2D + 1.0W 180 deg	0.00	00.00		1	0.00	162.11	1.63	
	180.00	00.00	0	A1	0.00	-66.95	65.16	
	180.00	00.00	240	A1a	-21.59	-25.23	-10.20	
	180.00	00.00	120	A1b	21.59	-25.23	-10.20	
1.2D + 1.0W 210 deg	0.00	00.00		1	0.88	160.13	1.43	
	180.00	00.00	0	A1	1.02	-62.61	60.82	
	180.00	00.00	240	A1a	-11.54	-14.04	-5.55	
	180.00	00.00	120	A1b	33.00	-38.34	-16.24	
1.2D + 1.0W 240 deg	0.00	00.00		1	1.65	156.53	0.95	
	180.00	00.00	0	A1	2.01	-51.26	49.54	
	180.00	00.00	240	A1a	-6.35	-8.38	-3.67	
	180.00	00.00	120	A1b	43.90	-51.30	-23.03	
1.2D + 1.0W 300 deg	0.00	00.00		1	1.42	162.13	-0.82	
	180.00	00.00	0	A1	1.96	-25.24	23.79	
	180.00	00.00	240	A1a	-19.63	-25.21	-13.60	
	180.00	00.00	120	A1b	56.43	-66.99	-32.58	
1.2D + 1.0W 330 deg	0.00	00.00		1	0.81	160.10	-1.47	
	180.00	00.00	0	A1	0.96	-14.05	12.76	
	180.00	00.00	240	A1a	-30.57	-38.29	-20.45	
	180.00	00.00	120	A1b	52.16	-62.62	-31.28	
1.2D + 1.0Di + 1.0Wi Normal	0.00	00.00		1	0.00	147.48	-0.16	
	180.00	00.00	0	A1	0.00	-28.65	29.71	
	180.00	00.00	240	A1a	-28.89	-32.35	-16.92	
	180.00	00.00	120	A1b	28.89	-32.35	-16.92	
1.2D + 1.0Di + 1.0Wi 60 deg	0.00	00.00		1	-0.14	147.10	-0.08	
	180.00	00.00	0	A1	-0.21	-29.82	30.87	
	180.00	00.00	240	A1a	-29.93	-33.44	-17.28	
	180.00	00.00	120	A1b	26.63	-29.82	-15.62	
1.2D + 1.0Di + 1.0Wi 90 deg	0.00	00.00		1	-0.16	147.29	0.00	
	180.00	00.00	0	A1	-0.26	-31.08	32.17	
	180.00	00.00	240	A1a	-29.76	-33.17	-17.06	
	180.00	00.00	120	A1b	25.94	-28.97	-15.10	

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1.2D + 1.0Di + 1.0Wi 120 deg	0.00	00.00	1	-0.14	147.48	0.08
	180.00	00.00	0 A1	-0.21	-32.33	33.46
	180.00	00.00	240 A1a	-29.08	-32.33	-16.55
	180.00	00.00	120 A1b	25.76	-28.69	-14.87
1.2D + 1.0Di + 1.0Wi 180 deg	0.00	00.00	1	0.00	147.10	0.16
	180.00	00.00	0 A1	0.00	-33.43	34.56
	180.00	00.00	240 A1a	-26.84	-29.82	-15.25
	180.00	00.00	120 A1b	26.84	-29.82	-15.25
1.2D + 1.0Di + 1.0Wi 210 deg	0.00	00.00	1	0.08	147.29	0.14
	180.00	00.00	0 A1	0.10	-33.17	34.30
	180.00	00.00	240 A1a	-26.05	-28.97	-14.92
	180.00	00.00	120 A1b	27.98	-31.08	-15.86
1.2D + 1.0Di + 1.0Wi 240 deg	0.00	00.00	1	0.14	147.48	0.08
	180.00	00.00	0 A1	0.21	-32.33	33.46
	180.00	00.00	240 A1a	-25.76	-28.69	-14.87
	180.00	00.00	120 A1b	29.08	-32.33	-16.55
1.2D + 1.0Di + 1.0Wi 300 deg	0.00	00.00	1	0.14	147.10	-0.08
	180.00	00.00	0 A1	0.21	-29.82	30.87
	180.00	00.00	240 A1a	-26.63	-29.82	-15.62
	180.00	00.00	120 A1b	29.93	-33.44	-17.28
1.2D + 1.0Di + 1.0Wi 330 deg	0.00	00.00	1	0.08	147.29	-0.14
	180.00	00.00	0 A1	0.10	-29.00	30.04
	180.00	00.00	240 A1a	-27.73	-31.08	-16.31
	180.00	00.00	120 A1b	29.63	-33.13	-17.23
1.2D + 1.0Ev + 1.0Eh Normal M1	0.00	00.00	1	0.00	127.52	0.00
	180.00	00.00	0 A1	0.00	-26.36	26.76
	180.00	00.00	240 A1a	-24.19	-27.73	-13.97
	180.00	00.00	120 A1b	24.19	-27.73	-13.97
1.2D + 1.0Ev + 1.0Eh 60 deg M1	0.00	00.00	1	0.00	127.52	0.00
	180.00	00.00	0 A1	0.00	-26.81	27.15
	180.00	00.00	240 A1a	-24.53	-28.18	-14.16
	180.00	00.00	120 A1b	23.51	-26.81	-13.57
1.2D + 1.0Ev + 1.0Eh 90 deg M1	0.00	00.00	1	0.00	127.52	0.00
	180.00	00.00	0 A1	0.00	-27.27	27.54
	180.00	00.00	240 A1a	-24.44	-28.06	-14.11
	180.00	00.00	120 A1b	23.26	-26.48	-13.43
1.2D + 1.0Ev + 1.0Eh 120 deg M1	0.00	00.00	1	0.00	127.52	0.00
	180.00	00.00	0 A1	0.00	-27.73	27.93
	180.00	00.00	240 A1a	-24.19	-27.73	-13.96
	180.00	00.00	120 A1b	23.17	-26.36	-13.38
1.2D + 1.0Ev + 1.0Eh 180 deg M1	0.00	00.00	1	0.00	127.52	0.00
	180.00	00.00	0 A1	0.00	-28.18	28.32
	180.00	00.00	240 A1a	-23.51	-26.81	-13.57
	180.00	00.00	120 A1b	23.51	-26.81	-13.57
1.2D + 1.0Ev + 1.0Eh 210 deg M1	0.00	00.00	1	0.00	127.52	0.00
	180.00	00.00	0 A1	0.00	-28.06	28.21
	180.00	00.00	240 A1a	-23.26	-26.48	-13.43
	180.00	00.00	120 A1b	23.85	-27.27	-13.77
1.2D + 1.0Ev + 1.0Eh 240 deg M1	0.00	00.00	1	0.00	127.52	0.00
	180.00	00.00	0 A1	0.00	-27.73	27.93
	180.00	00.00	240 A1a	-23.17	-26.36	-13.38
	180.00	00.00	120 A1b	24.19	-27.73	-13.96

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1.2D + 1.0Ev + 1.0Eh 300 deg M1	0.00	00.00	1	0.00	127.52	0.00
	180.00	00.00	0 A1	0.00	-26.81	27.15
	180.00	00.00	240 A1a	-23.51	-26.81	-13.57
	180.00	00.00	120 A1b	24.53	-28.18	-14.16
1.2D + 1.0Ev + 1.0Eh 330 deg M1	0.00	00.00	1	0.00	127.52	0.00
	180.00	00.00	0 A1	0.00	-26.48	26.86
	180.00	00.00	240 A1a	-23.85	-27.27	-13.77
	180.00	00.00	120 A1b	24.43	-28.06	-14.11
1.0D + 1.0W Service Normal	0.00	00.00	1	0.00	123.00	-0.50
	180.00	00.00	0 A1	0.00	-20.53	20.84
	180.00	00.00	240 A1a	-27.40	-31.74	-16.41
	180.00	00.00	120 A1b	27.40	-31.74	-16.41
1.0D + 1.0W Service 60 deg	0.00	00.00	1	-0.40	122.99	-0.23
	180.00	00.00	0 A1	-0.51	-24.46	24.58
	180.00	00.00	240 A1a	-30.62	-35.33	-17.68
	180.00	00.00	120 A1b	21.04	-24.45	-12.74
1.0D + 1.0W Service 90 deg	0.00	00.00	1	-0.48	122.98	0.01
	180.00	00.00	0 A1	-0.63	-28.05	28.21
	180.00	00.00	240 A1a	-29.98	-34.37	-17.01
	180.00	00.00	120 A1b	18.86	-21.70	-11.18
1.0D + 1.0W Service 120 deg	0.00	00.00	1	-0.43	123.00	0.25
	180.00	00.00	0 A1	-0.51	-31.72	31.92
	180.00	00.00	240 A1a	-27.90	-31.73	-15.52
	180.00	00.00	120 A1b	18.08	-20.57	-10.44
1.0D + 1.0W Service 180 deg	0.00	00.00	1	0.00	122.99	0.46
	180.00	00.00	0 A1	0.00	-35.36	35.39
	180.00	00.00	240 A1a	-21.53	-24.44	-11.84
	180.00	00.00	120 A1b	21.53	-24.44	-11.84
1.0D + 1.0W Service 210 deg	0.00	00.00	1	0.25	122.98	0.41
	180.00	00.00	0 A1	0.25	-34.36	34.47
	180.00	00.00	240 A1a	-19.12	-21.70	-10.74
	180.00	00.00	120 A1b	24.74	-28.06	-13.56
1.0D + 1.0W Service 240 deg	0.00	00.00	1	0.43	123.00	0.25
	180.00	00.00	0 A1	0.51	-31.72	31.92
	180.00	00.00	240 A1a	-18.08	-20.57	-10.44
	180.00	00.00	120 A1b	27.90	-31.73	-15.52
1.0D + 1.0W Service 300 deg	0.00	00.00	1	0.40	122.99	-0.23
	180.00	00.00	0 A1	0.51	-24.46	24.58
	180.00	00.00	240 A1a	-21.04	-24.45	-12.74
	180.00	00.00	120 A1b	30.62	-35.33	-17.68
1.0D + 1.0W Service 330 deg	0.00	00.00	1	0.23	122.98	-0.42
	180.00	00.00	0 A1	0.25	-21.71	21.93
	180.00	00.00	240 A1a	-24.11	-28.05	-14.65
	180.00	00.00	120 A1b	29.72	-34.36	-17.46

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Guy Anchor Design Loads

Radius (ft)	Drop (ft)	Azimuth (°)	Uplift (kip)	Shear (kip)
180.00	0.00	0	66.95	65.16
180.00	0.00	240	66.99	65.16
180.00	0.00	120	66.99	65.16

Maximum Cable Forces Summary

Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Allow Tension (kip)	Applied Tension (kip)	Use %
1.2D + 1.0W 180 deg	68.09	3/4 EHS	A1	25	34.98	10.69	31
1.2D + 1.0W 60 deg	139.50	7/8 EHS	A1a	49b	47.82	15.57	33
1.2D + 1.0W 60 deg	195.69	3/4 EHS	A1a	T3a	34.98	12.17	35
1.2D + 1.0W 60 deg	235.69	1 EHS	A1a	83b	62.70	21.95	35
1.2D + 1.0W 60 deg	288.10	1 EHS	A1a	102b	62.70	24.51	39

Maximum Torque Arm Stress Summary

Load Case	Elevation (ft)	Member	Type	Compression %	Tension %
1.2D + 1.0W Normal	68.00	3X3X0.5	Horiz		6
1.2D + 1.0W Normal	139.33	3X3X0.5	Horiz		7
1.2D + 1.0W Normal	196.00	C10 x 20	Horiz		5
1.2D + 1.0W 60 deg	196.00	C10 x 20	Kicker	9	
1.2D + 1.0W Normal	236.00	3X3X0.5	Horiz		6
1.2D + 1.0W Normal	288.00	3X3X0.5	Horiz		6

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Deflections and Rotations

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
117 mph Normal with No Ice	175.70	0.218	0.0001	0.0291	0.0291
117 mph Normal with No Ice	195.70	0.269	0.0022	0.1779	0.1779
117 mph Normal with No Ice	248.10	0.557	0.0004	0.4005	0.4005
117 mph Normal with No Ice	300.00	0.923	0.0011	0.6695	0.6695
117 mph 60 degree with No Ice	175.70	0.278	-0.0012	0.2082	0.2082
117 mph 60 degree with No Ice	195.70	0.319	0.0005	0.1420	0.1421
117 mph 60 degree with No Ice	248.10	0.541	-0.0004	0.3015	0.3015
117 mph 60 degree with No Ice	300.00	0.805	0.0011	0.5498	0.5498
117 mph 90 degree with No Ice	175.70	0.260	0.0565	0.2520	0.2583
117 mph 90 degree with No Ice	195.70	0.306	0.0541	0.1645	0.1728
117 mph 90 degree with No Ice	248.10	0.561	0.0625	0.3513	0.3567
117 mph 90 degree with No Ice	300.00	0.875	0.0687	0.6222	0.6259
117 mph 120 degree with No Ice	175.70	0.218	0.0016	0.2261	0.2261
117 mph 120 degree with No Ice	195.70	0.271	0.0033	0.1823	0.1823
117 mph 120 degree with No Ice	248.10	0.561	0.0014	0.4009	0.4009
117 mph 120 degree with No Ice	300.00	0.926	0.0020	0.6689	0.6689
117 mph 180 degree with No Ice	175.70	0.277	0.0001	0.0110	0.0110
117 mph 180 degree with No Ice	195.70	0.318	0.0017	0.1390	0.1390
117 mph 180 degree with No Ice	248.10	0.539	0.0006	0.3020	0.3020
117 mph 180 degree with No Ice	300.00	0.804	0.0020	0.5510	0.5510
117 mph 210 degree with No Ice	175.70	0.259	0.0549	0.1368	0.1475
117 mph 210 degree with No Ice	195.70	0.305	0.0529	0.1614	0.1694
117 mph 210 degree with No Ice	248.10	0.559	0.0615	0.3515	0.3568
117 mph 210 degree with No Ice	300.00	0.873	0.0678	0.6231	0.6268
117 mph 240 degree with No Ice	175.70	0.218	-0.0013	0.2261	0.2261
117 mph 240 degree with No Ice	195.70	0.271	-0.0033	0.1823	0.1823
117 mph 240 degree with No Ice	248.10	0.561	-0.0005	0.4009	0.4009
117 mph 240 degree with No Ice	300.00	0.926	-0.0020	0.6689	0.6689
117 mph 300 degree with No Ice	175.70	0.278	0.0017	0.2082	0.2082
117 mph 300 degree with No Ice	195.70	0.319	0.0028	0.1420	0.1421
117 mph 300 degree with No Ice	248.10	0.541	0.0016	0.3015	0.3015
117 mph 300 degree with No Ice	300.00	0.805	0.0029	0.5498	0.5498
117 mph 330 degree with No Ice	175.70	0.259	0.0580	0.1191	0.1324
117 mph 330 degree with No Ice	195.70	0.305	0.0552	0.1601	0.1690
117 mph 330 degree with No Ice	248.10	0.558	0.0635	0.3510	0.3567
117 mph 330 degree with No Ice	300.00	0.872	0.0696	0.6229	0.6267
30 mph Normal with 0.25 in Radial Ice	175.70	0.013	0.0000	0.0069	0.0069
30 mph Normal with 0.25 in Radial Ice	195.70	0.013	0.0002	0.0022	0.0022
30 mph Normal with 0.25 in Radial Ice	248.10	0.022	0.0001	0.0127	0.0127
30 mph Normal with 0.25 in Radial Ice	300.00	0.031	0.0002	0.0275	0.0275
30 mph 60 deg with 0.25 in Radial Ice	175.70	0.014	0.0000	0.0095	0.0095
30 mph 60 deg with 0.25 in Radial Ice	195.70	0.015	0.0002	0.0035	0.0035
30 mph 60 deg with 0.25 in Radial Ice	248.10	0.025	0.0001	0.0136	0.0136
30 mph 60 deg with 0.25 in Radial Ice	300.00	0.035	0.0002	0.0285	0.0285
30 mph 90 deg with 0.25 in Radial Ice	175.70	0.014	0.0032	0.0097	0.0102
30 mph 90 deg with 0.25 in Radial Ice	195.70	0.014	0.0029	0.0031	0.0041
30 mph 90 deg with 0.25 in Radial Ice	248.10	0.023	0.0043	0.0131	0.0138
30 mph 90 deg with 0.25 in Radial Ice	300.00	0.033	0.0053	0.0290	0.0294
30 mph 120 deg with 0.25 in Radial Ice	175.70	0.013	0.0000	0.0084	0.0084
30 mph 120 deg with 0.25 in Radial Ice	195.70	0.013	0.0002	0.0022	0.0022
30 mph 120 deg with 0.25 in Radial Ice	248.10	0.021	0.0001	0.0122	0.0122
30 mph 120 deg with 0.25 in Radial Ice	300.00	0.030	0.0002	0.0269	0.0269
30 mph 180 deg with 0.25 in Radial Ice	175.70	0.014	0.0000	0.0059	0.0059
30 mph 180 deg with 0.25 in Radial Ice	195.70	0.015	0.0002	0.0033	0.0033
30 mph 180 deg with 0.25 in Radial Ice	248.10	0.025	0.0000	0.0136	0.0136

Site Number: 24516

Code:

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Site Name: FALLING CREEK FL, FL

Engineering Number: 13666522_C3_03

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Customer: T-MOBILE

30 mph 180 deg with 0.25 in Radial Ice	300.00	0.035	0.0002	0.0286	0.0286
30 mph 210 deg with 0.25 in Radial Ice	175.70	0.014	0.0032	0.0067	0.0074
30 mph 210 deg with 0.25 in Radial Ice	195.70	0.014	0.0029	0.0029	0.0040
30 mph 210 deg with 0.25 in Radial Ice	248.10	0.023	0.0043	0.0132	0.0139
30 mph 210 deg with 0.25 in Radial Ice	300.00	0.033	0.0053	0.0290	0.0295
30 mph 240 deg with 0.25 in Radial Ice	175.70	0.013	0.0000	0.0084	0.0084
30 mph 240 deg with 0.25 in Radial Ice	195.70	0.013	0.0002	0.0022	0.0022
30 mph 240 deg with 0.25 in Radial Ice	248.10	0.021	0.0001	0.0122	0.0122
30 mph 240 deg with 0.25 in Radial Ice	300.00	0.030	0.0002	0.0269	0.0269
30 mph 300 deg with 0.25 in Radial Ice	175.70	0.014	0.0000	0.0095	0.0095
30 mph 300 deg with 0.25 in Radial Ice	195.70	0.015	-0.0002	0.0035	0.0035
30 mph 300 deg with 0.25 in Radial Ice	248.10	0.025	-0.0001	0.0136	0.0136
30 mph 300 deg with 0.25 in Radial Ice	300.00	0.035	-0.0002	0.0285	0.0285
30 mph 330 deg with 0.25 in Radial Ice	175.70	0.013	0.0029	0.0082	0.0087
30 mph 330 deg with 0.25 in Radial Ice	195.70	0.014	0.0027	0.0026	0.0037
30 mph 330 deg with 0.25 in Radial Ice	248.10	0.022	0.0040	0.0126	0.0132
30 mph 330 deg with 0.25 in Radial Ice	300.00	0.031	0.0049	0.0285	0.0289
Seismic Normal M1	175.70	0.007	0.0000	0.0048	0.0048
Seismic Normal M1	195.70	0.009	0.0001	0.0056	0.0056
Seismic Normal M1	248.10	0.016	0.0000	0.0091	0.0091
Seismic Normal M1	300.00	0.022	0.0000	0.0072	0.0072
Seismic 60 deg M1	175.70	0.007	0.0000	0.0050	0.0050
Seismic 60 deg M1	195.70	0.009	0.0001	0.0054	0.0054
Seismic 60 deg M1	248.10	0.016	0.0000	0.0090	0.0090
Seismic 60 deg M1	300.00	0.022	0.0000	0.0070	0.0070
Seismic 90 deg M1	175.70	0.007	0.0000	0.0050	0.0050
Seismic 90 deg M1	195.70	0.009	0.0001	0.0055	0.0055
Seismic 90 deg M1	248.10	0.016	0.0000	0.0091	0.0091
Seismic 90 deg M1	300.00	0.022	0.0000	0.0072	0.0072
Seismic 120 deg M1	175.70	0.007	0.0000	0.0048	0.0048
Seismic 120 deg M1	195.70	0.009	0.0001	0.0056	0.0056
Seismic 120 deg M1	248.10	0.016	0.0000	0.0091	0.0091
Seismic 120 deg M1	300.00	0.022	0.0000	0.0072	0.0072
Seismic 180 deg M1	175.70	0.007	0.0000	0.0050	0.0050
Seismic 180 deg M1	195.70	0.009	0.0001	0.0054	0.0054
Seismic 180 deg M1	248.10	0.016	0.0000	0.0090	0.0090
Seismic 180 deg M1	300.00	0.022	0.0000	0.0070	0.0070
Seismic 210 deg M1	175.70	0.007	0.0000	0.0050	0.0050
Seismic 210 deg M1	195.70	0.009	0.0001	0.0055	0.0055
Seismic 210 deg M1	248.10	0.016	0.0000	0.0091	0.0091
Seismic 210 deg M1	300.00	0.022	0.0000	0.0072	0.0072
Seismic 240 deg M1	175.70	0.007	0.0000	0.0048	0.0048
Seismic 240 deg M1	195.70	0.009	0.0001	0.0056	0.0056
Seismic 240 deg M1	248.10	0.016	0.0000	0.0091	0.0091
Seismic 240 deg M1	300.00	0.022	0.0000	0.0072	0.0072
Seismic 300 deg M1	175.70	0.007	0.0000	0.0050	0.0050
Seismic 300 deg M1	195.70	0.009	0.0001	0.0054	0.0054
Seismic 300 deg M1	248.10	0.016	0.0000	0.0090	0.0090
Seismic 300 deg M1	300.00	0.022	0.0000	0.0070	0.0070
Seismic 330 deg M1	175.70	0.007	0.0000	0.0050	0.0050
Seismic 330 deg M1	195.70	0.009	0.0001	0.0055	0.0055
Seismic 330 deg M1	248.10	0.016	0.0000	0.0091	0.0091
Seismic 330 deg M1	300.00	0.022	0.0000	0.0072	0.0072
Serviceability - 60 mph Wind Normal	175.70	0.038	0.0001	0.0258	0.0258
Serviceability - 60 mph Wind Normal	195.70	0.039	0.0005	0.0082	0.0082
Serviceability - 60 mph Wind Normal	248.10	0.070	0.0001	0.0450	0.0450
Serviceability - 60 mph Wind Normal	300.00	0.105	0.0004	0.1064	0.1064
Serviceability - 60 mph Wind 60 deg	175.70	0.050	0.0001	0.0406	0.0406
Serviceability - 60 mph Wind 60 deg	195.70	0.054	0.0004	0.0186	0.0186
Serviceability - 60 mph Wind 60 deg	248.10	0.093	0.0001	0.0545	0.0545
Serviceability - 60 mph Wind 60 deg	300.00	0.138	0.0004	0.1176	0.1176
Serviceability - 60 mph Wind 90 deg	175.70	0.044	0.0103	0.0412	0.0425

Site Number: 24516

Code:

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Site Name: FALLING CREEK FL, FL

Engineering Number: 13666522_C3_03

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Customer: T-MOBILE

Serviceability - 60 mph Wind 90 deg	195.70	0.047	0.0096	0.0148	0.0176
Serviceability - 60 mph Wind 90 deg	248.10	0.082	0.0132	0.0501	0.0518
Serviceability - 60 mph Wind 90 deg	300.00	0.123	0.0158	0.1158	0.1169
Serviceability - 60 mph Wind 120 deg	175.70	0.038	0.0001	0.0332	0.0332
Serviceability - 60 mph Wind 120 deg	195.70	0.039	0.0005	0.0086	0.0086
Serviceability - 60 mph Wind 120 deg	248.10	0.069	0.0001	0.0442	0.0442
Serviceability - 60 mph Wind 120 deg	300.00	0.104	0.0004	0.1055	0.1055
Serviceability - 60 mph Wind 180 deg	175.70	0.050	0.0001	0.0161	0.0161
Serviceability - 60 mph Wind 180 deg	195.70	0.054	0.0005	0.0182	0.0182
Serviceability - 60 mph Wind 180 deg	248.10	0.093	0.0001	0.0553	0.0553
Serviceability - 60 mph Wind 180 deg	300.00	0.139	0.0004	0.1185	0.1185
Serviceability - 60 mph Wind 210 deg	175.70	0.044	0.0104	0.0229	0.0251
Serviceability - 60 mph Wind 210 deg	195.70	0.047	0.0096	0.0140	0.0169
Serviceability - 60 mph Wind 210 deg	248.10	0.082	0.0133	0.0502	0.0519
Serviceability - 60 mph Wind 210 deg	300.00	0.123	0.0158	0.1161	0.1172
Serviceability - 60 mph Wind 240 deg	175.70	0.038	0.0001	0.0332	0.0332
Serviceability - 60 mph Wind 240 deg	195.70	0.039	0.0005	0.0086	0.0086
Serviceability - 60 mph Wind 240 deg	248.10	0.069	0.0001	0.0442	0.0442
Serviceability - 60 mph Wind 240 deg	300.00	0.104	0.0004	0.1055	0.1055
Serviceability - 60 mph Wind 300 deg	175.70	0.050	0.0001	0.0406	0.0406
Serviceability - 60 mph Wind 300 deg	195.70	0.054	0.0005	0.0186	0.0186
Serviceability - 60 mph Wind 300 deg	248.10	0.093	0.0001	0.0545	0.0545
Serviceability - 60 mph Wind 300 deg	300.00	0.138	0.0004	0.1176	0.1176
Serviceability - 60 mph Wind 330 deg	175.70	0.044	0.0104	0.0330	0.0345
Serviceability - 60 mph Wind 330 deg	195.70	0.047	0.0096	0.0143	0.0172
Serviceability - 60 mph Wind 330 deg	248.10	0.082	0.0132	0.0502	0.0519
Serviceability - 60 mph Wind 330 deg	300.00	0.123	0.0158	0.1161	0.1172

Maximum Reactions Summary

Anchor Group	UpLift	Shear
Base	162.13	1.90
A1	66.99	65.16