



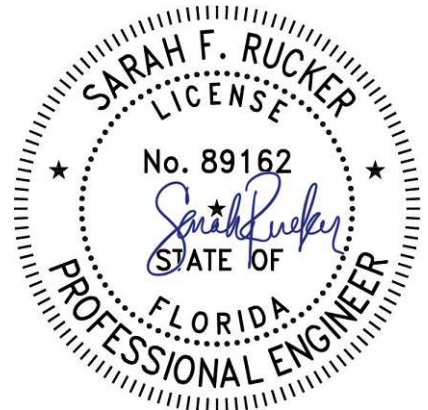
Post Modification Structural Analysis Report

Structure : 340 ft Guyed Tower
ATC Asset Name : Lake City
ATC Asset Number : 370667
Engineering Number : 14873543_C4_04
Proposed Carrier : VERIZON WIRELESS
Carrier Site Name : Lake City ATC
Carrier Site Number : 5000957580
Site Location : 5348 Northwest US Highway 41
Lake City, FL 32055-5550
30.2542° N, 82.6818° W
County : Columbia
Date : January 3, 2025
Max Usage : 104%
Analysis Result : Pass

Created By:

Jiantao Yu
Structural Engineer III

A handwritten signature in black ink, appearing to be 'Jiantao Yu'.



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.

Sarah Rucker Digitally signed by Sarah Rucker
Date: 2025.01.03 14:51:41 -05'00'

COA: 9053

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Introduction

The purpose of this report is to summarize results of a post-modification structural analysis performed on the 340 ft Guyed tower to reflect the change in loading by VERIZON WIRELESS.

Supporting Documents

Tower:	Rohn Drawing #C931098, dated October 20, 1993
Foundation:	Rohn Drawing #C620643 R13, dated June 30, 1988 Rohn Drawing #C610621 R7, dated April 16, 1998
Geotechnical:	Geotel Report #E14-428, dated August 10, 2014
Modification:	ATC Project #14873543_C6_05, dated December 18, 2024 (Pending)

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:	118 mph (3-second gust)
Basic Wind Speed w/ Ice:	No Ice Considered
Code(s):	ANSI/TIA-222-I / 2021 IBC / 8th ED (2023) Florida Building Code
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 1
Feature:	Flat
Crest Height (H):	0 ft
Crest Length (L):	0 ft
Spectral Response:	$S_{DS} = 0.11$, $S_{D1} = 0.08$
Site Class:	Default

**Wind load and Ice thickness have been reduced by applicable existing structure load modification factors in accordance with TIA-222, ANNEX-S*

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 reach out to your American Tower contact. If you do not have an American Tower contact and have an Engineering question, please contact Engineering@americantower.com. Please include the American Tower asset name, asset number, and engineering number in the subject line for any questions.

Structure Usages

Structural Component	Usage	Control	Location	Result
Leg	104.2%	Member X	Section 10	Pass
Diagonal	100.6%	Member X	Section 10	Pass
Horizontal	32.7%	Member	Section 11	Pass
Bolt	12.9%	-	Section 11	Pass
Cable	84.0%	Tension	Elevation 148 ft	Pass
Serviceability Usage	4.0%	Rotation	Elevation 279 ft	Pass
Mat & Pier	47.8%	Bearing [Soil]	Node 1	Pass
Guy Anchor	93.5%	Tension [Anchor Rod]	Node A1	Pass
Guy Anchor	93.6%	Tension [Anchor Rod]	Node A1a	Pass
Guy Anchor	93.6%	Tension [Anchor Rod]	Node A1b	Pass
Guy Anchor	94.5%	Tension [Anchor Rod]	Node A2	Pass
Guy Anchor	94.5%	Tension [Anchor Rod]	Node A2a	Pass
Guy Anchor	94.5%	Tension [Anchor Rod]	Node A2b	Pass

Maximum Reactions

Foundation	Moment (k-ft)	Axial (k)	Uplift (k)	Shear (k)
Guyed – Non Pivot Base	6.3	48.8	-	0.5
Guyed Anchor - A2	-	-	17.5	12.8
Guyed Anchor - A1	-	-	6.3	6.7

**Reactions shown are maximum overall and not limited by Load Case
excluding Overstrength Load Cases*

Structure base reactions were analyzed using available geotechnical and foundation information.

VERIZON WIRELESS Final Loading

Elev (ft)	Qty	Equipment	Lines
185.0	1	Raycap RVZDC-6627-PF-48	(2) 1.43"(36.4mm) Hybrid
	3	Ericsson AIR 6419 B77D	
	3	Ericsson RRUS 4490	
	3	Ericsson RRUS 4890	
	3	Sector Frame	
	6	JMA Wireless MX06FHG665-HG	

Install proposed lines on the tower face with the least amount of existing lines.

Other Existing/Reserved Loading

Elev (ft)	Qty	Equipment	Lines
319.0	1	Shively 6813-HW-4	(1) 1 5/8" Coax
305.0	-	-	(1) 7/8" Coax
301.0	-	-	(1) 7/8" Coax
280.0	1	Side Arm	-
	1	Dielectric TLP-12A/VP-R (W35EC-D)	(1) 1 5/8" Coax

(If table breaks across pages, please see previous page for data in merged cells)



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.

ASSET: Lake City, 370667
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14873543

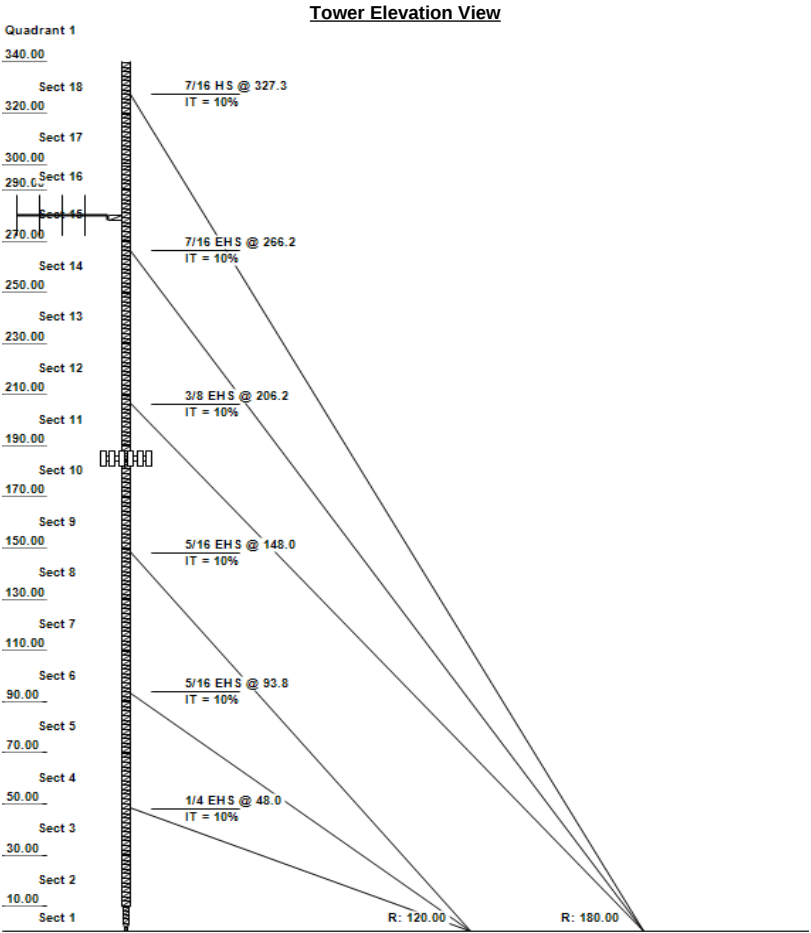
ANALYSIS PARAMETERS					
Design Wind:	115 mph	Ice Wind:	29 mph w/ 0.00" ice	Service Wind:	60 mph
Risk Category	II	Exposure:	B	S _{DS} : 0.110	S _{D1} : 0.085
Topo Factor:	Method 1	Topo Feature:	Flat		
Structure Height:	340 ft	Base Elevation:	0 ft	Shape:	Triangle
Base Width:	1.00 ft	Top Width:	2.02 ft	Base Type:	Fixed

TOWER SECTION PROPERTIES					
Section	Leg Members		Diagonal Members		Horizontal Members
1 - 18	PST 50 ksi	1-1/2" DIA PIPE	SOL 36 ksi	5/8" SOLID	SOL 36 ksi 5/8" SOLID

DISCRETE APPURTENANCE		LINEAR APPURTENANCE	
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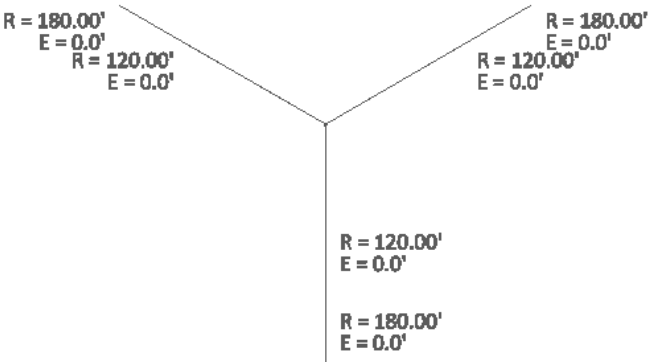
Elev (ft)	Description	Elev (ft)	Description
280.0	(1) Dielectric TLP-12A/VP-R (W3SEC-D)	332.0	(1) Shively 6813-HW-4
280.0	(1) Generic Round Side Arm	319.0	(1) 1 5/8" Coax
185.0	(3) Ericsson RRUS 4890	305.0	(1) 7/8" Coax
185.0	(1) Raycap RVZDC-6627-PF-48	301.0	(1) 7/8" Coax
185.0	(3) Ericsson RRUS 4490	280.0	(1) 1 5/8" Coax
185.0	(3) Generic Sector Frame	185.0	(2) 1.43"(36.4mm) Hybrid
185.0	(6) JMA Wireless MX06FHG665-HG		
185.0	(3) Ericsson AIR 6419 B77D		

GUY ANCHOR REACTIONS				
Radius (ft)	Drop (ft)	Azimuth (°)	Uplift (k)	Shear (k)
120.0	0.00	0	6.31	6.68
120.0	0.00	120	6.31	6.69
120.0	0.00	240	6.31	6.69
180.0	0.00	0	17.53	12.80
180.0	0.00	120	17.54	12.80
180.0	0.00	240	17.54	12.80



GLOBAL BASE REACTIONS			INDIVIDUAL BASE REACTIONS	
	DL+W/L	DL+W/L+IL		
Moment (k-ft):	6.26	0.43	Comp (k):	21.69
Axial (k):	48.76	29.52	Uplift (k):	7.63
Shear (k):	0.48	0.04	Shear (k):	1.53

Tower Plan View



ANALYSIS PARAMETERS			
Location:	Columbia County, FL	Height:	340 ft
Type and Shape:	Guyed, Triangle	Base Elevation:	0.00 ft
Manufacturer:	Rohn	Bottom Face Width:	1.00 ft
Kd	0.85	Top Face Width:	2.02 ft
Ke:	1.00		

ICE & WIND PARAMETERS			
Exposure Category:	B	Design Wind Speed Without Ice:	115 mph
		Design Wind Speed with Ice:	29 mph
Risk Category:	II	Operational Windspeed:	60 mph
Topographic Factor Procedure:	Method 1		
Crest Height(H):	0 ft	Design Ice Thickness:	0.00 in
Crest Length(L):	0 ft	HMSL:	138 ft
Feature:	Flat	Distance from Apex (x):	0
		Upwind/Downwind:	

SEISMIC PARAMETERS					
Analysis Method:	Equivalent Lateral Force Method				
Site Class:	Default		Period Based on Rayleigh Method (sec):	1.37	
T _L (sec):	8	P:	1.3	C _s :	0.030
S _{ds} :	0.110	S _{d1} :	0.085	C _{s, Max} :	0.030
				C _{s, Min} :	0.030

LOAD CASES	
1.2D + 1.0W Normal	1.2D + 1.0W Normal - 115.01 mph Wind with No Ice
1.2D + 1.0W 60°	1.2D + 1.0W 60° - 115.01 mph Wind with No Ice
1.2D + 1.0W 90°	1.2D + 1.0W 90° - 115.01 mph Wind with No Ice
1.2D + 1.0W 120°	1.2D + 1.0W 120° - 115.01 mph Wind with No Ice
1.2D + 1.0W 180°	1.2D + 1.0W 180° - 115.01 mph Wind with No Ice
1.2D + 1.0W 210°	1.2D + 1.0W 210° - 115.01 mph Wind with No Ice
1.2D + 1.0W 240°	1.2D + 1.0W 240° - 115.01 mph Wind with No Ice
1.2D + 1.0W 300°	1.2D + 1.0W 300° - 115.01 mph Wind with No Ice
1.2D + 1.0W 330°	1.2D + 1.0W 330° - 115.01 mph Wind with No Ice
1.2D + 1.0Di + 1.0Wi Normal	1.2D + 1.0Di + 1.0Wi Normal - 29.24 mph Wind with 0" Radial Ice
1.2D + 1.0Di + 1.0Wi 60°	1.2D + 1.0Di + 1.0Wi 60° - 29.24 mph Wind with 0" Radial Ice
1.2D + 1.0Di + 1.0Wi 90°	1.2D + 1.0Di + 1.0Wi 90° - 29.24 mph Wind with 0" Radial Ice
1.2D + 1.0Di + 1.0Wi 120°	1.2D + 1.0Di + 1.0Wi 120° - 29.24 mph Wind with 0" Radial Ice
1.2D + 1.0Di + 1.0Wi 180°	1.2D + 1.0Di + 1.0Wi 180° - 29.24 mph Wind with 0" Radial Ice
1.2D + 1.0Di + 1.0Wi 210°	1.2D + 1.0Di + 1.0Wi 210° - 29.24 mph Wind with 0" Radial Ice
1.2D + 1.0Di + 1.0Wi 240°	1.2D + 1.0Di + 1.0Wi 240° - 29.24 mph Wind with 0" Radial Ice
1.2D + 1.0Di + 1.0Wi 300°	1.2D + 1.0Di + 1.0Wi 300° - 29.24 mph Wind with 0" Radial Ice
1.2D + 1.0Di + 1.0Wi 330°	1.2D + 1.0Di + 1.0Wi 330° - 29.24 mph Wind with 0" Radial Ice
1.2D + 1.0Ev + 1.0Eh Normal	1.2D + 1.0Ev + 1.0Eh Normal - Seismic
1.2D + 1.0Ev + 1.0Eh 60°	1.2D + 1.0Ev + 1.0Eh 60° - Seismic
1.2D + 1.0Ev + 1.0Eh 90°	1.2D + 1.0Ev + 1.0Eh 90° - Seismic
1.2D + 1.0Ev + 1.0Eh 120°	1.2D + 1.0Ev + 1.0Eh 120° - Seismic
1.2D + 1.0Ev + 1.0Eh 180°	1.2D + 1.0Ev + 1.0Eh 180° - Seismic
1.2D + 1.0Ev + 1.0Eh 210°	1.2D + 1.0Ev + 1.0Eh 210° - Seismic
1.2D + 1.0Ev + 1.0Eh 240°	1.2D + 1.0Ev + 1.0Eh 240° - Seismic
1.2D + 1.0Ev + 1.0Eh 300°	1.2D + 1.0Ev + 1.0Eh 300° - Seismic

LOAD CASES	
1.2D + 1.0Ev + 1.0Eh 330°	1.2D + 1.0Ev + 1.0Eh 330° - Seismic
1.0D + 1.0W Service Normal	1.0D + 1.0W Service Normal - 60 mph Wind with No Ice
1.0D + 1.0W Service 60°	1.0D + 1.0W Service 60° - 60 mph Wind with No Ice
1.0D + 1.0W Service 90°	1.0D + 1.0W Service 90° - 60 mph Wind with No Ice
1.0D + 1.0W Service 120°	1.0D + 1.0W Service 120° - 60 mph Wind with No Ice
1.0D + 1.0W Service 180°	1.0D + 1.0W Service 180° - 60 mph Wind with No Ice
1.0D + 1.0W Service 210°	1.0D + 1.0W Service 210° - 60 mph Wind with No Ice
1.0D + 1.0W Service 240°	1.0D + 1.0W Service 240° - 60 mph Wind with No Ice
1.0D + 1.0W Service 300°	1.0D + 1.0W Service 300° - 60 mph Wind with No Ice
1.0D + 1.0W Service 330°	1.0D + 1.0W Service 330° - 60 mph Wind with No Ice
1.2D + 1.0Ev + 1.5Eh Normal	1.2D + 1.0Ev + 1.5Eh Normal - Seismic Overstrength
1.2D + 1.0Ev + 1.5Eh 60°	1.2D + 1.0Ev + 1.5Eh 60° - Seismic Overstrength
1.2D + 1.0Ev + 1.5Eh 90°	1.2D + 1.0Ev + 1.5Eh 90° - Seismic Overstrength
1.2D + 1.0Ev + 1.5Eh 120°	1.2D + 1.0Ev + 1.5Eh 120° - Seismic Overstrength
1.2D + 1.0Ev + 1.5Eh 180°	1.2D + 1.0Ev + 1.5Eh 180° - Seismic Overstrength
1.2D + 1.0Ev + 1.5Eh 210°	1.2D + 1.0Ev + 1.5Eh 210° - Seismic Overstrength
1.2D + 1.0Ev + 1.5Eh 240°	1.2D + 1.0Ev + 1.5Eh 240° - Seismic Overstrength
1.2D + 1.0Ev + 1.5Eh 300°	1.2D + 1.0Ev + 1.5Eh 300° - Seismic Overstrength
1.2D + 1.0Ev + 1.5Eh 330°	1.2D + 1.0Ev + 1.5Eh 330° - Seismic Overstrength

ASSET: 370667, Lake City
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14873543_C4_04

TOWER LOADING - DISCRETE APPURTENANCE

Discrete Appurtenance Properties for LC: **1.2D + 1.0W**

Elev (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)
280.0	Generic Round Side Arm	1	188	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.00	35.81	158	225
280.0	Dielectric TLP-12A/VP-R (W35EC	1	197	12.9	21.5	6.0	6.0	1.00	1.00	-1.0	392.27	35.77	392	236
185.0	Ericsson RRUS 4890	3	70	2.7	1.7	15.7	7.2	0.80	0.50	0.0	0.00	32.06	88	250
185.0	Ericsson RRUS 4490	3	68	2.7	1.7	15.7	7.0	0.80	0.50	0.0	0.00	32.06	88	246
185.0	Raycap RVZDC-6627-PF-48	1	32	3.8	2.4	15.7	10.3	0.80	0.50	0.0	0.00	32.06	41	38
185.0	Ericsson AIR 6419 B77D	3	63	4.2	2.6	16.1	9.1	0.80	0.67	0.0	0.00	32.06	183	227
185.0	JMA Wireless MX06FHG665-HG	6	41	8.2	6.0	12.2	7.5	0.80	0.70	0.0	0.00	32.06	755	295
185.0	Generic Sector Frame	3	800	20.0	0.0	0.0	0.0	0.75	1.00	0.0	0.00	32.06	1226	2880
Totals		21	3,666	160.1									2,933	4,399

Discrete Appurtenance Properties for LC: **1.2D + 1.0Di + 1.0Wi**

Elev (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)
280.0	Generic Round Side Arm	1	188	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.00	2.31	10	225
280.0	Dielectric TLP-12A/VP-R (W35EC	1	197	12.9	21.5	6.0	6.0	1.00	1.00	-1.0	25.36	2.31	25	236
185.0	Ericsson RRUS 4890	3	70	2.7	1.7	15.7	7.2	0.80	0.50	0.0	0.00	2.07	6	250
185.0	Ericsson RRUS 4490	3	68	2.7	1.7	15.7	7.0	0.80	0.50	0.0	0.00	2.07	6	246
185.0	Raycap RVZDC-6627-PF-48	1	32	3.8	2.4	15.7	10.3	0.80	0.50	0.0	0.00	2.07	3	38
185.0	Ericsson AIR 6419 B77D	3	63	4.2	2.6	16.1	9.1	0.80	0.67	0.0	0.00	2.07	12	227
185.0	JMA Wireless MX06FHG665-HG	6	41	8.2	6.0	12.2	7.5	0.80	0.70	0.0	0.00	2.07	49	295
185.0	Generic Sector Frame	3	800	20.0	0.0	0.0	0.0	0.75	1.00	0.0	0.00	2.07	79	2880
Totals		21	3,666	160.1									190	4,399

Discrete Appurtenance Properties for LC: **1.0D + 1.0W Service**

Elev (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)
280.0	Generic Round Side Arm	1	188	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.00	9.75	43	188
280.0	Dielectric TLP-12A/VP-R (W35EC	1	197	12.9	21.5	6.0	6.0	1.00	1.00	-1.0	106.76	9.74	107	197
185.0	Ericsson RRUS 4890	3	70	2.7	1.7	15.7	7.2	0.80	0.50	0.0	0.00	8.73	24	208
185.0	Ericsson RRUS 4490	3	68	2.7	1.7	15.7	7.0	0.80	0.50	0.0	0.00	8.73	24	205
185.0	Raycap RVZDC-6627-PF-48	1	32	3.8	2.4	15.7	10.3	0.80	0.50	0.0	0.00	8.73	11	32
185.0	Ericsson AIR 6419 B77D	3	63	4.2	2.6	16.1	9.1	0.80	0.67	0.0	0.00	8.73	50	189
185.0	JMA Wireless MX06FHG665-HG	6	41	8.2	6.0	12.2	7.5	0.80	0.70	0.0	0.00	8.73	205	246
185.0	Generic Sector Frame	3	800	20.0	0.0	0.0	0.0	0.75	1.00	0.0	0.00	8.73	334	2400
Totals		21	3,666	160.1									798	3,666

ASSET: 370667, Lake City
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
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TOWER LOADING - LINEAR APPURTENANCE

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Qty	Width (in)	Weight (lb/ft)	% In Wind	Spread On Faces	Bundling	Cluster Dia (in)	Out of Zone	Spacing (in)	Orient. Factor	K _a Override
302.0	332.0	Shively 6813-HW-4	1	11.30	20.00	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	319.0	1 5/8" Coax	1	1.98	0.82	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	305.0	7/8" Coax	1	1.09	0.33	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	301.0	7/8" Coax	1	1.09	0.33	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	280.0	1 5/8" Coax	1	1.98	0.82	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	185.0	1.43"(36.4mm) Hybrid	2	1.43	0.79	100	3	Individual	0.00	N	1.00	1.00	0.00

ASSET: 370667, Lake City
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SECTION FORCES

1.2D + 1.0W Normal Gust Response Factor (Gh): 0.85
115.01 mph Wind with No Ice Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
18	330	37.41	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	686	0	431	431	862
17	310	36.79	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	851	0	424	719	1143
16	295	36.31	0.000	4.408	0.00	0.202	2.59	1.00	1.00	0.0	2.59	6.69	0.00	212	0	207	77	284
15	280	35.81	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	444	0	413	188	601
14	260	35.11	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	453	0	405	220	624
13	240	34.37	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	453	0	396	215	611
12	220	33.58	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	453	0	387	210	597
11	200	32.74	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	453	0	377	205	582
10	180	31.83	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	482	0	367	269	636
9	160	30.84	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	355	283	639
8	140	29.77	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	343	273	616
7	120	28.57	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	329	262	591
6	100	27.21	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	314	250	563
5	80	25.64	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	295	235	531
4	60	23.75	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	274	218	492
3	40	21.31	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	246	196	441
2	20	20.05	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	231	184	415
1	5	20.05	0.000	4.288	0.00	0.257	2.42	1.00	1.00	0.0	2.58	6.23	0.00	233	0	106	92	198
Totals														8,653	0			10,427

1.2D + 1.0W 60° Gust Response Factor (Gh): 0.85
115.01 mph Wind with No Ice Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
18	330	37.41	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	686	0	431	431	862
17	310	36.79	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	851	0	424	719	1143
16	295	36.31	0.000	4.408	0.00	0.202	2.59	0.80	1.00	0.0	2.59	6.69	0.00	212	0	207	77	284
15	280	35.81	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	444	0	413	188	601
14	260	35.11	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	453	0	405	220	624
13	240	34.37	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	453	0	396	215	611
12	220	33.58	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	453	0	387	210	597
11	200	32.74	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	453	0	377	205	582
10	180	31.83	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	482	0	367	269	636
9	160	30.84	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	355	283	639
8	140	29.77	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	343	273	616
7	120	28.57	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	329	262	591
6	100	27.21	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	314	250	563
5	80	25.64	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	295	235	531
4	60	23.75	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	274	218	492
3	40	21.31	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	246	196	441
2	20	20.05	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	231	184	415
1	5	20.05	0.000	4.288	0.00	0.257	2.42	0.80	1.00	0.0	2.58	6.23	0.00	233	0	106	92	198
Totals														8,653	0			10,427

1.2D + 1.0W 90° Gust Response Factor (Gh): 0.85
115.01 mph Wind with No Ice Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
18	330	37.41	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	686	0	431	431	862
17	310	36.79	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	851	0	424	719	1143
16	295	36.31	0.000	4.408	0.00	0.202	2.59	0.85	1.00	0.0	2.59	6.69	0.00	212	0	207	77	284
15	280	35.81	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	444	0	413	188	601
14	260	35.11	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	453	0	405	220	624
13	240	34.37	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	453	0	396	215	611
12	220	33.58	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	453	0	387	210	597
11	200	32.74	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	453	0	377	205	582
10	180	31.83	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	482	0	367	269	636
9	160	30.84	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	355	283	639
8	140	29.77	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	343	273	616
7	120	28.57	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	329	262	591
6	100	27.21	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	314	250	563
5	80	25.64	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	295	235	531
4	60	23.75	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	274	218	492
3	40	21.31	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	246	196	441
2	20	20.05	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	231	184	415
1	5	20.05	0.000	4.288	0.00	0.257	2.42	0.85	1.00	0.0	2.58	6.23	0.00	233	0	106	92	198
Totals														8,653	0			10,427

1.2D + 1.0W 120° Gust Response Factor (Gh): 0.85
115.01 mph Wind with No Ice Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
18	330	37.41	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	686	0	431	431	862
17	310	36.79	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	851	0	424	719	1143

ASSET: 370667, Lake City
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14873543_C4_04

SECTION FORCES

1.2D + 1.0W 120°

Gust Response Factor (Gh): 0.85

115.01 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
16	295	36.31	0.000	4.408	0.00	0.202	2.59	1.00	1.00	0.0	5.26	6.69	0.00	212	0	207	77	284
15	280	35.81	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	444	0	413	188	601
14	260	35.11	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	453	0	405	220	624
13	240	34.37	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	453	0	396	215	611
12	220	33.58	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	453	0	387	210	597
11	200	32.74	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	453	0	377	205	582
10	180	31.83	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	482	0	367	269	636
9	160	30.84	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	355	283	639
8	140	29.77	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	343	273	616
7	120	28.57	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	329	262	591
6	100	27.21	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	314	250	563
5	80	25.64	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	295	235	531
4	60	23.75	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	274	218	492
3	40	21.31	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	246	196	441
2	20	20.05	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	231	184	415
1	5	20.05	0.000	4.288	0.00	0.257	2.42	1.00	1.00	0.0	2.58	6.23	0.00	233	0	106	92	198
Totals														8,653	0			10,427

1.2D + 1.0W 180°

Gust Response Factor (Gh): 0.85

115.01 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
18	330	37.41	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	686	0	431	431	862
17	310	36.79	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	851	0	424	719	1143
16	295	36.31	0.000	4.408	0.00	0.202	2.59	0.80	1.00	0.0	2.59	6.69	0.00	212	0	207	77	284
15	280	35.81	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	444	0	413	188	601
14	260	35.11	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	453	0	405	220	624
13	240	34.37	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	453	0	396	215	611
12	220	33.58	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	453	0	387	210	597
11	200	32.74	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	453	0	377	205	582
10	180	31.83	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	482	0	367	269	636
9	160	30.84	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	355	283	639
8	140	29.77	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	343	273	616
7	120	28.57	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	329	262	591
6	100	27.21	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	314	250	563
5	80	25.64	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	295	235	531
4	60	23.75	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	274	218	492
3	40	21.31	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	246	196	441
2	20	20.05	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	231	184	415
1	5	20.05	0.000	4.288	0.00	0.257	2.42	0.80	1.00	0.0	2.58	6.23	0.00	233	0	106	92	198
Totals														8,653	0			10,427

1.2D + 1.0W 210°

Gust Response Factor (Gh): 0.85

115.01 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
18	330	37.41	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	686	0	431	431	862
17	310	36.79	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	851	0	424	719	1143
16	295	36.31	0.000	4.408	0.00	0.202	2.59	0.85	1.00	0.0	2.59	6.69	0.00	212	0	207	77	284
15	280	35.81	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	444	0	413	188	601
14	260	35.11	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	453	0	405	220	624
13	240	34.37	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	453	0	396	215	611
12	220	33.58	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	453	0	387	210	597
11	200	32.74	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	453	0	377	205	582
10	180	31.83	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	482	0	367	269	636
9	160	30.84	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	355	283	639
8	140	29.77	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	343	273	616
7	120	28.57	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	329	262	591
6	100	27.21	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	314	250	563
5	80	25.64	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	295	235	531
4	60	23.75	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	274	218	492
3	40	21.31	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	246	196	441
2	20	20.05	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	231	184	415
1	5	20.05	0.000	4.288	0.00	0.257	2.42	0.85	1.00	0.0	2.58	6.23	0.00	233	0	106	92	198
Totals														8,653	0			10,427

1.2D + 1.0W 240°

Gust Response Factor (Gh): 0.85

115.01 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
18	330	37.41	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	686	0	431	431	862
17	310	36.79	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	851	0	424	719	1143
16	295	36.31	0.000	4.408	0.00	0.202	2.59	1.00	1.00	0.0	2.59	6.69	0.00	212	0	207	77	284
15	280	35.81	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	444	0	413	188	601

ASSET: 370667, Lake City
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14873543_C4_04

SECTION FORCES

1.2D + 1.0W 240° Gust Response Factor (Gh): 0.85
115.01 mph Wind with No Ice Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
14	260	35.11	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	453	0	405	220	624
13	240	34.37	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	453	0	396	215	611
12	220	33.58	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	453	0	387	210	597
11	200	32.74	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	453	0	377	205	582
10	180	31.83	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	482	0	367	269	636
9	160	30.84	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	355	283	639
8	140	29.77	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	343	273	616
7	120	28.57	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	329	262	591
6	100	27.21	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	314	250	563
5	80	25.64	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	295	235	531
4	60	23.75	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	274	218	492
3	40	21.31	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	246	196	441
2	20	20.05	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	231	184	415
1	5	20.05	0.000	4.288	0.00	0.257	2.42	1.00	1.00	0.0	2.58	6.23	0.00	233	0	106	92	198
Totals														8,653	0			10,427

1.2D + 1.0W 300° Gust Response Factor (Gh): 0.85
115.01 mph Wind with No Ice Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
18	330	37.41	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	686	0	431	431	862
17	310	36.79	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	851	0	424	719	1143
16	295	36.31	0.000	4.408	0.00	0.202	2.59	0.80	1.00	0.0	2.59	6.69	0.00	212	0	207	77	284
15	280	35.81	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	444	0	413	188	601
14	260	35.11	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	453	0	405	220	624
13	240	34.37	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	453	0	396	215	611
12	220	33.58	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	453	0	387	210	597
11	200	32.74	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	453	0	377	205	582
10	180	31.83	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	482	0	367	269	636
9	160	30.84	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	355	283	639
8	140	29.77	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	343	273	616
7	120	28.57	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	329	262	591
6	100	27.21	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	314	250	563
5	80	25.64	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	295	235	531
4	60	23.75	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	274	218	492
3	40	21.31	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	246	196	441
2	20	20.05	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	231	184	415
1	5	20.05	0.000	4.288	0.00	0.257	2.42	0.80	1.00	0.0	2.58	6.23	0.00	233	0	106	92	198
Totals														8,653	0			10,427

1.2D + 1.0W 330° Gust Response Factor (Gh): 0.85
115.01 mph Wind with No Ice Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
18	330	37.41	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	686	0	431	431	862
17	310	36.79	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	851	0	424	719	1143
16	295	36.31	0.000	4.408	0.00	0.202	2.59	0.85	1.00	0.0	2.59	6.69	0.00	212	0	207	77	284
15	280	35.81	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	444	0	413	188	601
14	260	35.11	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	453	0	405	220	624
13	240	34.37	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	453	0	396	215	611
12	220	33.58	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	453	0	387	210	597
11	200	32.74	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	453	0	377	205	582
10	180	31.83	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	482	0	367	269	636
9	160	30.84	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	355	283	639
8	140	29.77	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	343	273	616
7	120	28.57	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	329	262	591
6	100	27.21	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	314	250	563
5	80	25.64	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	295	235	531
4	60	23.75	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	274	218	492
3	40	21.31	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	246	196	441
2	20	20.05	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	231	184	415
1	5	20.05	0.000	4.288	0.00	0.257	2.42	0.85	1.00	0.0	2.58	6.23	0.00	233	0	106	92	198
Totals														8,653	0			10,427

1.2D + 1.0Di + 1.0Wi Normal Gust Response Factor (Gh): 0.85
29.24 mph Wind with 0" Radial Ice Wind Importance Factor (Iw): 1.00 Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
18	330	2.42	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	686	0	28	28	56
17	310	2.38	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	851	0	27	48	76
16	295	2.35	0.000	4.408	0.00	0.202	2.59	1.00	1.00	0.0	2.59	6.69	0.00	212	0	13	7	20
15	280	2.31	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	444	0	27	16	43
14	260	2.27	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	453	0	26	19	45
13	240	2.22	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	453	0	26	18	44

ASSET: 370667, Lake City
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14873543_C4_04

SECTION FORCES

1.2D + 1.0Di + 1.0Wi Normal

Gust Response Factor (Gh): 0.85

29.24 mph Wind with 0" Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
12	220	2.17	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	453	0	25	18	43
11	200	2.12	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	453	0	24	18	42
10	180	2.06	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	482	0	24	23	47
9	160	1.99	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	23	24	47
8	140	1.92	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	22	23	46
7	120	1.85	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	21	22	44
6	100	1.76	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	20	21	42
5	80	1.66	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	19	20	39
4	60	1.53	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	18	19	36
3	40	1.38	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	16	17	33
2	20	1.30	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	15	16	31
1	5	1.30	0.000	4.288	0.00	0.257	2.42	1.00	1.00	0.0	2.58	6.23	0.00	233	0	7	7	14

Totals 8,653 0 746

1.2D + 1.0Di + 1.0Wi 60°

Gust Response Factor (Gh): 0.85

29.24 mph Wind with 0" Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
18	330	2.42	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	686	0	28	28	56
17	310	2.38	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	851	0	27	48	76
16	295	2.35	0.000	4.408	0.00	0.202	2.59	0.80	1.00	0.0	2.59	6.69	0.00	212	0	13	7	20
15	280	2.31	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	444	0	27	16	43
14	260	2.27	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	453	0	26	19	45
13	240	2.22	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	453	0	26	18	44
12	220	2.17	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	453	0	25	18	43
11	200	2.12	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	453	0	24	18	42
10	180	2.06	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	482	0	24	23	47
9	160	1.99	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	23	24	47
8	140	1.92	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	22	23	46
7	120	1.85	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	21	22	44
6	100	1.76	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	20	21	42
5	80	1.66	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	19	20	39
4	60	1.53	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	18	19	36
3	40	1.38	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	16	17	33
2	20	1.30	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	15	16	31
1	5	1.30	0.000	4.288	0.00	0.257	2.42	0.80	1.00	0.0	2.58	6.23	0.00	233	0	7	7	14

Totals 8,653 0 746

1.2D + 1.0Di + 1.0Wi 90°

Gust Response Factor (Gh): 0.85

29.24 mph Wind with 0" Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
18	330	2.42	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	686	0	28	28	56
17	310	2.38	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	851	0	27	48	76
16	295	2.35	0.000	4.408	0.00	0.202	2.59	0.85	1.00	0.0	2.59	6.69	0.00	212	0	13	7	20
15	280	2.31	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	444	0	27	16	43
14	260	2.27	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	453	0	26	19	45
13	240	2.22	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	453	0	26	18	44
12	220	2.17	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	453	0	25	18	43
11	200	2.12	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	453	0	24	18	42
10	180	2.06	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	482	0	24	23	47
9	160	1.99	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	23	24	47
8	140	1.92	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	22	23	46
7	120	1.85	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	21	22	44
6	100	1.76	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	20	21	42
5	80	1.66	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	19	20	39
4	60	1.53	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	18	19	36
3	40	1.38	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	16	17	33
2	20	1.30	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	15	16	31
1	5	1.30	0.000	4.288	0.00	0.257	2.42	0.85	1.00	0.0	2.58	6.23	0.00	233	0	7	7	14

Totals 8,653 0 746

1.2D + 1.0Di + 1.0Wi 120°

Gust Response Factor (Gh): 0.85

29.24 mph Wind with 0" Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
18	330	2.42	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	686	0	28	28	56
17	310	2.38	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	851	0	27	48	76
16	295	2.35	0.000	4.408	0.00	0.202	2.59	1.00	1.00	0.0	2.59	6.69	0.00	212	0	13	7	20
15	280	2.31	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	444	0	27	16	43
14	260	2.27	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	453	0	26	19	45
13	240	2.22	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	453	0	26	18	44
12	220	2.17	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	453	0	25	18	43
11	200	2.12	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	453	0	24	18	42

ASSET: 370667, Lake City
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14873543_C4_04

SECTION FORCES

1.2D + 1.0Di + 1.0Wi 120°

Gust Response Factor (Gh): 0.85

29.24 mph Wind with 0" Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
10	180	2.06	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	482	0	24	23	47
9	160	1.99	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	23	24	47
8	140	1.92	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	22	23	46
7	120	1.85	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	21	22	44
6	100	1.76	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	20	21	42
5	80	1.66	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	19	20	39
4	60	1.53	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	18	19	36
3	40	1.38	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	16	17	33
2	20	1.30	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	15	16	31
1	5	1.30	0.000	4.288	0.00	0.257	2.42	1.00	1.00	0.0	2.58	6.23	0.00	233	0	7	7	14
Totals														8,653	0			746

1.2D + 1.0Di + 1.0Wi 180°

Gust Response Factor (Gh): 0.85

29.24 mph Wind with 0" Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
18	330	2.42	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	686	0	28	28	56
17	310	2.38	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	851	0	27	48	76
16	295	2.35	0.000	4.408	0.00	0.202	2.59	0.80	1.00	0.0	2.59	6.69	0.00	212	0	13	7	20
15	280	2.31	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	444	0	27	16	43
14	260	2.27	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	453	0	26	19	45
13	240	2.22	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	453	0	26	18	44
12	220	2.17	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	453	0	25	18	43
11	200	2.12	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	453	0	24	18	42
10	180	2.06	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	482	0	24	23	47
9	160	1.99	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	23	24	47
8	140	1.92	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	22	23	46
7	120	1.85	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	21	22	44
6	100	1.76	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	20	21	42
5	80	1.66	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	19	20	39
4	60	1.53	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	18	19	36
3	40	1.38	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	16	17	33
2	20	1.30	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	15	16	31
1	5	1.30	0.000	4.288	0.00	0.257	2.42	0.80	1.00	0.0	2.58	6.23	0.00	233	0	7	7	14
Totals														8,653	0			746

1.2D + 1.0Di + 1.0Wi 210°

Gust Response Factor (Gh): 0.85

29.24 mph Wind with 0" Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
18	330	2.42	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	686	0	28	28	56
17	310	2.38	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	851	0	27	48	76
16	295	2.35	0.000	4.408	0.00	0.202	2.59	0.85	1.00	0.0	2.59	6.69	0.00	212	0	13	7	20
15	280	2.31	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	444	0	27	16	43
14	260	2.27	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	453	0	26	19	45
13	240	2.22	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	453	0	26	18	44
12	220	2.17	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	453	0	25	18	43
11	200	2.12	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	453	0	24	18	42
10	180	2.06	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	482	0	24	23	47
9	160	1.99	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	23	24	47
8	140	1.92	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	22	23	46
7	120	1.85	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	21	22	44
6	100	1.76	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	20	21	42
5	80	1.66	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	19	20	39
4	60	1.53	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	18	19	36
3	40	1.38	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	16	17	33
2	20	1.30	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	15	16	31
1	5	1.30	0.000	4.288	0.00	0.257	2.42	0.85	1.00	0.0	2.58	6.23	0.00	233	0	7	7	14
Totals														8,653	0			746

1.2D + 1.0Di + 1.0Wi 240°

Gust Response Factor (Gh): 0.85

29.24 mph Wind with 0" Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
18	330	2.42	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	686	0	28	28	56
17	310	2.38	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	851	0	27	48	76
16	295	2.35	0.000	4.408	0.00	0.202	2.59	1.00	1.00	0.0	2.59	6.69	0.00	212	0	13	7	20
15	280	2.31	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	444	0	27	16	43
14	260	2.27	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	453	0	26	19	45
13	240	2.22	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	453	0	26	18	44
12	220	2.17	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	453	0	25	18	43
11	200	2.12	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	453	0	24	18	42
10	180	2.06	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	482	0	24	23	47
9	160	1.99	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	23	24	47

ASSET: 370667, Lake City
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14873543_C4_04

SECTION FORCES

1.2D + 1.0Di + 1.0Wi 240°

Gust Response Factor (Gh): 0.85

29.24 mph Wind with 0° Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
8	140	1.92	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	22	23	46
7	120	1.85	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	21	22	44
6	100	1.76	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	20	21	42
5	80	1.66	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	19	20	39
4	60	1.53	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	18	19	36
3	40	1.38	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	16	17	33
2	20	1.30	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	491	0	15	16	31
1	5	1.30	0.000	4.288	0.00	0.257	2.42	1.00	1.00	0.0	2.58	6.23	0.00	233	0	7	7	14
Totals														8,653	0			746

1.2D + 1.0Di + 1.0Wi 300°

Gust Response Factor (Gh): 0.85

29.24 mph Wind with 0° Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
18	330	2.42	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	686	0	28	28	56
17	310	2.38	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	851	0	27	48	76
16	295	2.35	0.000	4.408	0.00	0.202	2.59	0.80	1.00	0.0	2.59	6.69	0.00	212	0	13	7	20
15	280	2.31	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	444	0	27	16	43
14	260	2.27	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	453	0	26	19	45
13	240	2.22	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	453	0	26	18	44
12	220	2.17	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	453	0	25	18	43
11	200	2.12	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	453	0	24	18	42
10	180	2.06	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	482	0	24	23	47
9	160	1.99	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	23	24	47
8	140	1.92	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	22	23	46
7	120	1.85	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	21	22	44
6	100	1.76	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	20	21	42
5	80	1.66	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	19	20	39
4	60	1.53	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	18	19	36
3	40	1.38	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	16	17	33
2	20	1.30	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	491	0	15	16	31
1	5	1.30	0.000	4.288	0.00	0.257	2.42	0.80	1.00	0.0	2.58	6.23	0.00	233	0	7	7	14
Totals														8,653	0			746

1.2D + 1.0Di + 1.0Wi 330°

Gust Response Factor (Gh): 0.85

29.24 mph Wind with 0° Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
18	330	2.42	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	686	0	28	28	56
17	310	2.38	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	851	0	27	48	76
16	295	2.35	0.000	4.408	0.00	0.202	2.59	0.85	1.00	0.0	2.59	6.69	0.00	212	0	13	7	20
15	280	2.31	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	444	0	27	16	43
14	260	2.27	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	453	0	26	19	45
13	240	2.22	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	453	0	26	18	44
12	220	2.17	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	453	0	25	18	43
11	200	2.12	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	453	0	24	18	42
10	180	2.06	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	482	0	24	23	47
9	160	1.99	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	23	24	47
8	140	1.92	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	22	23	46
7	120	1.85	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	21	22	44
6	100	1.76	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	20	21	42
5	80	1.66	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	19	20	39
4	60	1.53	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	18	19	36
3	40	1.38	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	16	17	33
2	20	1.30	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	491	0	15	16	31
1	5	1.30	0.000	4.288	0.00	0.257	2.42	0.85	1.00	0.0	2.58	6.23	0.00	233	0	7	7	14
Totals														8,653	0			746

1.0D + 1.0W Service Normal

Gust Response Factor (Gh): 0.85

60 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
18	330	10.18	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	572	0	117	117	235
17	310	10.01	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	709	0	115	196	311
16	295	9.88	0.000	4.408	0.00	0.202	2.59	1.00	1.00	0.0	2.59	6.69	0.00	177	0	56	21	77
15	280	9.75	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	370	0	112	51	164
14	260	9.56	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	378	0	110	60	170
13	240	9.35	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	378	0	108	59	166
12	220	9.14	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	378	0	105	57	163
11	200	8.91	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	378	0	103	56	158
10	180	8.66	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	402	0	100	73	173
9	160	8.39	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	410	0	97	77	174
8	140	8.10	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	410	0	93	74	168
7	120	7.77	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	410	0	90	71	161

ASSET: 370667, Lake City
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14873543_C4_04

SECTION FORCES

1.0D + 1.0W Service Normal
60 mph Wind with No Ice

Gust Response Factor (Gh): 0.85
Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
6	100	7.41	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	410	0	85	68	153
5	80	6.98	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	410	0	80	64	144
4	60	6.46	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	410	0	74	59	134
3	40	5.80	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	410	0	67	53	120
2	20	5.46	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	410	0	63	50	113
1	5	5.46	0.000	4.288	0.00	0.257	2.42	1.00	1.00	0.0	2.58	6.23	0.00	194	0	29	25	54
Totals														7,211	0			2,838

1.0D + 1.0W Service 60°
60 mph Wind with No Ice

Gust Response Factor (Gh): 0.85
Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
18	330	10.18	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	572	0	117	117	235
17	310	10.01	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	709	0	115	196	311
16	295	9.88	0.000	4.408	0.00	0.202	2.59	0.80	1.00	0.0	2.59	6.69	0.00	177	0	56	21	77
15	280	9.75	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	370	0	112	51	164
14	260	9.56	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	378	0	110	60	170
13	240	9.35	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	378	0	108	59	166
12	220	9.14	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	378	0	105	57	163
11	200	8.91	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	378	0	103	56	158
10	180	8.66	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	402	0	100	73	173
9	160	8.39	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	410	0	97	77	174
8	140	8.10	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	410	0	93	74	168
7	120	7.77	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	410	0	90	71	161
6	100	7.41	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	410	0	85	68	153
5	80	6.98	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	410	0	80	64	144
4	60	6.46	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	410	0	74	59	134
3	40	5.80	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	410	0	67	53	120
2	20	5.46	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	410	0	63	50	113
1	5	5.46	0.000	4.288	0.00	0.257	2.42	0.80	1.00	0.0	2.58	6.23	0.00	194	0	29	25	54
Totals														7,211	0			2,838

1.0D + 1.0W Service 90°
60 mph Wind with No Ice

Gust Response Factor (Gh): 0.85
Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
18	330	10.18	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	572	0	117	117	235
17	310	10.01	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	709	0	115	196	311
16	295	9.88	0.000	4.408	0.00	0.202	2.59	0.85	1.00	0.0	2.59	6.69	0.00	177	0	56	21	77
15	280	9.75	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	370	0	112	51	164
14	260	9.56	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	378	0	110	60	170
13	240	9.35	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	378	0	108	59	166
12	220	9.14	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	378	0	105	57	163
11	200	8.91	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	378	0	103	56	158
10	180	8.66	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	402	0	100	73	173
9	160	8.39	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	410	0	97	77	174
8	140	8.10	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	410	0	93	74	168
7	120	7.77	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	410	0	90	71	161
6	100	7.41	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	410	0	85	68	153
5	80	6.98	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	410	0	80	64	144
4	60	6.46	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	410	0	74	59	134
3	40	5.80	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	410	0	67	53	120
2	20	5.46	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	410	0	63	50	113
1	5	5.46	0.000	4.288	0.00	0.257	2.42	0.85	1.00	0.0	2.58	6.23	0.00	194	0	29	25	54
Totals														7,211	0			2,838

1.0D + 1.0W Service 120°
60 mph Wind with No Ice

Gust Response Factor (Gh): 0.85
Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
18	330	10.18	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	572	0	117	117	235
17	310	10.01	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	709	0	115	196	311
16	295	9.88	0.000	4.408	0.00	0.202	2.59	1.00	1.00	0.0	2.59	6.69	0.00	177	0	56	21	77
15	280	9.75	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	370	0	112	51	164
14	260	9.56	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	378	0	110	60	170
13	240	9.35	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	378	0	108	59	166
12	220	9.14	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	378	0	105	57	163
11	200	8.91	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	378	0	103	56	158
10	180	8.66	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	402	0	100	73	173
9	160	8.39	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	410	0	97	77	174
8	140	8.10	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	410	0	93	74	168
7	120	7.77	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	410	0	90	71	161
6	100	7.41	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	410	0	85	68	153
5	80	6.98	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	410	0	80	64	144

ASSET: 370667, Lake City
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14873543_C4_04

SECTION FORCES

1.0D + 1.0W Service 120°

Gust Response Factor (Gh): 0.85

60 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
4	60	6.46	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	410	0	74	59	134
3	40	5.80	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	410	0	67	53	120
2	20	5.46	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	410	0	63	50	113
1	5	5.46	0.000	4.288	0.00	0.257	2.42	1.00	1.00	0.0	2.58	6.23	0.00	194	0	29	25	54
Totals														7,211	0			2,838

1.0D + 1.0W Service 180°

Gust Response Factor (Gh): 0.85

60 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
18	330	10.18	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	572	0	117	117	235
17	310	10.01	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	709	0	115	196	311
16	295	9.88	0.000	4.408	0.00	0.202	2.59	0.80	1.00	0.0	2.59	6.69	0.00	177	0	56	21	77
15	280	9.75	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	370	0	112	51	164
14	260	9.56	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	378	0	110	60	170
13	240	9.35	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	378	0	108	59	166
12	220	9.14	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	378	0	105	57	163
11	200	8.91	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	378	0	103	56	158
10	180	8.66	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	402	0	100	73	173
9	160	8.39	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	410	0	97	77	174
8	140	8.10	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	410	0	93	74	168
7	120	7.77	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	410	0	90	71	161
6	100	7.41	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	410	0	85	68	153
5	80	6.98	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	410	0	80	64	144
4	60	6.46	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	410	0	74	59	134
3	40	5.80	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	410	0	67	53	120
2	20	5.46	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	410	0	63	50	113
1	5	5.46	0.000	4.288	0.00	0.257	2.42	0.80	1.00	0.0	2.58	6.23	0.00	194	0	29	25	54
Totals														7,211	0			2,838

1.0D + 1.0W Service 210°

Gust Response Factor (Gh): 0.85

60 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
18	330	10.18	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	572	0	117	117	235
17	310	10.01	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	709	0	115	196	311
16	295	9.88	0.000	4.408	0.00	0.202	2.59	0.85	1.00	0.0	2.59	6.69	0.00	177	0	56	21	77
15	280	9.75	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	370	0	112	51	164
14	260	9.56	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	378	0	110	60	170
13	240	9.35	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	378	0	108	59	166
12	220	9.14	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	378	0	105	57	163
11	200	8.91	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	378	0	103	56	158
10	180	8.66	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	402	0	100	73	173
9	160	8.39	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	410	0	97	77	174
8	140	8.10	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	410	0	93	74	168
7	120	7.77	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	410	0	90	71	161
6	100	7.41	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	410	0	85	68	153
5	80	6.98	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	410	0	80	64	144
4	60	6.46	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	410	0	74	59	134
3	40	5.80	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	410	0	67	53	120
2	20	5.46	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	410	0	63	50	113
1	5	5.46	0.000	4.288	0.00	0.257	2.42	0.85	1.00	0.0	2.58	6.23	0.00	194	0	29	25	54
Totals														7,211	0			2,838

1.0D + 1.0W Service 240°

Gust Response Factor (Gh): 0.85

60 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
18	330	10.18	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	572	0	117	117	235
17	310	10.01	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	709	0	115	196	311
16	295	9.88	0.000	4.408	0.00	0.202	2.59	1.00	1.00	0.0	2.59	6.69	0.00	177	0	56	21	77
15	280	9.75	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	370	0	112	51	164
14	260	9.56	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	378	0	110	60	170
13	240	9.35	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	378	0	108	59	166
12	220	9.14	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	378	0	105	57	163
11	200	8.91	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	378	0	103	56	158
10	180	8.66	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	402	0	100	73	173
9	160	8.39	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	410	0	97	77	174
8	140	8.10	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	410	0	93	74	168
7	120	7.77	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	410	0	90	71	161
6	100	7.41	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	410	0	85	68	153
5	80	6.98	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	410	0	80	64	144
4	60	6.46	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	410	0	74	59	134
3	40	5.80	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	410	0	67	53	120

ASSET: 370667, Lake City
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14873543_C4_04

SECTION FORCES

1.0D + 1.0W Service 240°
60 mph Wind with No Ice
Gust Response Factor (Gh): 0.85
Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
2	20	5.46	0.000	8.949	0.00	0.205	2.58	1.00	1.00	0.0	5.26	13.56	0.00	410	0	63	50	113
1	5	5.46	0.000	4.288	0.00	0.257	2.42	1.00	1.00	0.0	2.58	6.23	0.00	194	0	29	25	54
Totals														7,211	0			2,838

1.0D + 1.0W Service 300°
60 mph Wind with No Ice
Gust Response Factor (Gh): 0.85
Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
18	330	10.18	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	572	0	117	117	235
17	310	10.01	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	709	0	115	196	311
16	295	9.88	0.000	4.408	0.00	0.202	2.59	0.80	1.00	0.0	2.59	6.69	0.00	177	0	56	21	77
15	280	9.75	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	370	0	112	51	164
14	260	9.56	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	378	0	110	60	170
13	240	9.35	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	378	0	108	59	166
12	220	9.14	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	378	0	105	57	163
11	200	8.91	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	378	0	103	56	158
10	180	8.66	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	402	0	100	73	173
9	160	8.39	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	410	0	97	77	174
8	140	8.10	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	410	0	93	74	168
7	120	7.77	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	410	0	90	71	161
6	100	7.41	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	410	0	85	68	153
5	80	6.98	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	410	0	80	64	144
4	60	6.46	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	410	0	74	59	134
3	40	5.80	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	410	0	67	53	120
2	20	5.46	0.000	8.949	0.00	0.205	2.58	0.80	1.00	0.0	5.26	13.56	0.00	410	0	63	50	113
1	5	5.46	0.000	4.288	0.00	0.257	2.42	0.80	1.00	0.0	2.58	6.23	0.00	194	0	29	25	54
Totals														7,211	0			2,838

1.0D + 1.0W Service 330°
60 mph Wind with No Ice
Gust Response Factor (Gh): 0.85
Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
18	330	10.18	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	572	0	117	117	235
17	310	10.01	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	709	0	115	196	311
16	295	9.88	0.000	4.408	0.00	0.202	2.59	0.85	1.00	0.0	2.59	6.69	0.00	177	0	56	21	77
15	280	9.75	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	370	0	112	51	164
14	260	9.56	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	378	0	110	60	170
13	240	9.35	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	378	0	108	59	166
12	220	9.14	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	378	0	105	57	163
11	200	8.91	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	378	0	103	56	158
10	180	8.66	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	402	0	100	73	173
9	160	8.39	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	410	0	97	77	174
8	140	8.10	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	410	0	93	74	168
7	120	7.77	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	410	0	90	71	161
6	100	7.41	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	410	0	85	68	153
5	80	6.98	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	410	0	80	64	144
4	60	6.46	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	410	0	74	59	134
3	40	5.80	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	410	0	67	53	120
2	20	5.46	0.000	8.949	0.00	0.205	2.58	0.85	1.00	0.0	5.26	13.56	0.00	410	0	63	50	113
1	5	5.46	0.000	4.288	0.00	0.257	2.42	0.85	1.00	0.0	2.58	6.23	0.00	194	0	29	25	54
Totals														7,211	0			2,838

ASSET: 370667, Lake City
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14873543_C4_04

EQUIVALENT LATERAL FORCE METHOD

Long-Period Transition Period (T_L - Seconds): 8
Importance Factor (I_e): 1.00
Response Modification Coefficient (R): 3.00
Design Spectral Response Acceleration at Short Period (S_{ds}): 0.11
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}): 0.08
Seismic Response Coefficient (C_s): 0.03
Upper Limit C_s : 0.03
Lower Limit C_s : 0.03
Period based on Rayleigh Method (sec): 1.37
Redundancy Factor (ρ): 1.30
Seismic Force Distribution Exponent (k): 1.43
Total Unfactored Dead Load: 10.88 k
Seismic Base Shear (E): 0.42 k

SEISMIC FORCES

1.2D + 1.0Ev + 1.0Eh

Section/Appurtenance	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
18	330.00	572	2,333,033	0.114	48	699
17	310.00	709	2,646,075	0.129	55	867
16	295.00	177	613,224	0.030	13	216
15	280.00	370	1,191,665	0.058	25	452
14	260.00	378	1,095,319	0.054	23	462
13	240.00	378	976,574	0.048	20	462
12	220.00	378	862,046	0.042	18	462
11	200.00	378	751,950	0.037	16	462
10	180.00	402	687,079	0.034	14	491
9	160.00	410	591,743	0.029	12	500
8	140.00	410	488,646	0.024	10	500
7	120.00	410	391,758	0.019	8	500
6	100.00	410	301,649	0.015	6	500
5	80.00	410	219,063	0.011	5	500
4	60.00	410	145,029	0.007	3	500
3	40.00	410	81,097	0.004	2	500
2	20.00	410	30,022	0.002	1	500
1	5.00	194	1,950	0.000	0	237
Generic Round Side Arm	280.00	188	604,369	0.030	13	229
Dielectric TLP-12A/VP-R (W35EC-D)	280.00	197	634,990	0.031	13	241
Ericsson RRUS 4890	185.00	208	371,000	0.018	8	255
Ericsson RRUS 4490	185.00	205	365,129	0.018	8	251
Raycap RVZDC-6627-PF-48	185.00	32	56,940	0.003	1	39
Ericsson AIR 6419 B77D	185.00	189	336,836	0.016	7	231
JMA Wireless MX06FHG665-HG	185.00	246	437,727	0.021	9	301
Generic Sector Frame	185.00	2,400	4,270,509	0.208	88	2,933
Totals		10,876	20,485,424	1.000	424	13,291

1.2D + 1.0Ev + 1.5Eh

Section/Appurtenance	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
18	330.00	572	2,333,033	0.114	72	699
17	310.00	709	2,646,075	0.129	82	867
16	295.00	177	613,224	0.030	19	216
15	280.00	370	1,191,665	0.058	37	452
14	260.00	378	1,095,319	0.054	34	462
13	240.00	378	976,574	0.048	30	462
12	220.00	378	862,046	0.042	27	462
11	200.00	378	751,950	0.037	23	462
10	180.00	402	687,079	0.034	21	491
9	160.00	410	591,743	0.029	18	500
8	140.00	410	488,646	0.024	15	500
7	120.00	410	391,758	0.019	12	500
6	100.00	410	301,649	0.015	9	500
5	80.00	410	219,063	0.011	7	500
4	60.00	410	145,029	0.007	5	500
3	40.00	410	81,097	0.004	3	500
2	20.00	410	30,022	0.002	1	500

ASSET:	370667, Lake City			CODE:	ANSI/TIA-222-I	
CUSTOMER:	VERIZON WIRELESS			PROJECT:	14873543_C4_04	
1	5.00	194	1,950	0.000	0	237
Generic Round Side Arm	280.00	188	604,369	0.030	19	229
Dielectric TLP-12A/VP-R (W35EC-D)	280.00	197	634,990	0.031	20	241
Ericsson RRUS 4890	185.00	208	371,000	0.018	12	255
Ericsson RRUS 4490	185.00	205	365,129	0.018	11	251
Raycap RVZDC-6627-PF-48	185.00	32	56,940	0.003	2	39
Ericsson AIR 6419 B77D	185.00	189	336,836	0.016	10	231
JMA Wireless MX06FHG665-HG	185.00	246	437,727	0.021	14	301
Generic Sector Frame	185.00	2,400	4,270,509	0.208	133	2,933
Totals		10,876	20,485,424	1.000	636	13,291

ASSET: 370667, Lake City
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14873543_C4_04

FORCE/STRESS SUMMARY

Section 1 – 0.0' to 10.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F' _y (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
	X			Y	Z										
L PST - 1-1/2" DIA PIPE	-21.69	1.2D + 1.0W N	0.392	100	100	100	7.54	50.00	35.81	0.00	0.00	0	0	61	Member X
D SOL - 5/8" SOLID	-4.34	1.2D + 1.0W 90°	1.894	100	100	100	101.96	36.00	5.75	0.00	0.00	0	0	75	Member X
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear		# Bolt	# Hole	Use %	Controls		
	Φ _t P _n (kip)														
H SOL - 5/8" SOLID	2.33	1.2D + 1.0W 90°	36.0	58	9.94	0.00	0.00	0.00	0.00	0	0	23	Member		
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									

Section 2 – 10.0' to 30.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
	X			Y	Z										
L PST - 1-1/2" DIA PIPE	-18.65	1.2D + 1.0W 240°	1.781	100	100	100	34.31	50.00	32.99	0.00	0.00	0	0	57	Member X
D SOL - 5/8" SOLID	-2.09	1.2D + 1.0W 90°	2.693	100	100	100	145.02	36.00	3.30	0.00	0.00	0	0	63	Member X
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _e P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear		# Bolt	# Hole	Use %	Controls		
								Φ _t P _n (kip)							
H SOL - 5/8" SOLID	1.37	1.2D + 1.0W 90°	36.0	58	9.94	0.00	0.00	0.00	0.00	0	0	14	Member		
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									

ASSET: 370667, Lake City
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14873543_C4_04

FORCE/STRESS SUMMARY

Section 3 – 30.0' to 50.00'

	Pu (kip)	Load Case	Len (ft)	Bracing %			F' _y (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls	
Member Compression				X	Y	Z	KL/R								
L PST - 1-1/2" DIA PIPE	-21.57	1.2D + 1.0W 240°	1.781	100	100	100	34.31	50.00	32.99	0.00	0.00	0	0	65	Member X
D SOL - 5/8" SOLID	-1.97	1.2D + 1.0W 120°	2.693	100	100	100	145.02	36.00	3.30	0.00	0.00	0	0	60	Member X
	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls			
Member Tension															
H SOL - 5/8" SOLID	1.74	1.2D + 1.0W 120°	36.0	58	9.94	0.00	0.00	0.00	0	0	17	Member			
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									

Section 4 – 50.0' to 70.00'

	Pu (kip)	Load Case	Len (ft)	Bracing %			F' _y (ksi)	Φ _c P _n (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls	
				X	Y	Z			KL/R	ΦR _{nv} (kip)					ΦR _n (kip)
Member Compression															
L PST - 1-1/2" DIA PIPE	-26.29	1.2D + 1.0W 240°	1.781	100	100	100	34.31	50.00	32.99	0.00	0.00	0	0	80	Member X
D SOL - 5/8" SOLID	-2.16	1.2D + 1.0W 120°	2.693	100	100	100	145.02	36.00	3.30	0.00	0.00	0	0	66	Member X
	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	ΦR _{nv} (kip)	ΦR _n (kip)	Blk Shear	# Bolt	# Hole	Use %	Controls			
								Φ _t P _n (kip)							
Member Tension															
H SOL - 5/8" SOLID	1.48	1.2D + 1.0W 120°	36.0	58	9.94	0.00	0.00	0.00	0	0	15	Member			
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									

Section 5 – 70.0' to 90.00'

	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls
				X	Y	Z				Φ _{R_{nv}} (kip)	Φ _{R_n} (kip)				
Member Compression															
L PST - 1-1/2" DIA PIPE	-32.62	1.2D + 1.0W 240°	1.781	100	100	100	34.31	50.00	32.99	0.00	0.00	0	0	99	Member X
D SOL - 5/8" SOLID	-2.24	1.2D + 1.0W 90°	2.693	100	100	100	145.02	36.00	3.30	0.00	0.00	0	0	68	Member X
	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Φ _{R_{nv}} (kip)	Φ _{R_n} (kip)	Blk Shear	# Bolt	# Hole	Use %	Controls			
								Φ _t P _n (kip)							
Member Tension															
H SOL - 5/8" SOLID	1.53	1.2D + 1.0W 90°	36.0	58	9.94	0.00	0.00	0.00	0	0	15	Member			
Max Splice Forces	Pu (kip)	Load Case	Φ _{R_{nt}} (kip)	Use %	Num Bolts	Bolt Type									

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Section 6 – 90.0' to 110.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
	X			Y	Z										
L PST - 1-1/2" DIA PIPE	-33.99	1.2D + 1.0W 240°	1.781	100	100	100	34.31	50.00	32.99	0.00	0.00	0	0	103	Member X
D SOL - 5/8" SOLID	-2.49	1.2D + 1.0W 120°	2.693	100	100	100	145.02	36.00	3.30	0.00	0.00	0	0	76	Member X

Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls
H SOL - 5/8" SOLID	2.12	1.2D + 1.0W 120°	36.0	58	9.94	0.00	0.00	0.00	0	0	21	Member

Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type

Section 7 – 110.0' to 130.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
	X			Y	Z										
L PST - 1-1/2" DIA PIPE	-24.43	1.2D + 1.0W 240°	1.781	100	100	100	34.31	50.00	32.99	0.00	0.00	0	0	74	Member X
D SOL - 5/8" SOLID	-2.41	1.2D + 1.0W 120°	2.693	100	100	100	145.02	36.00	3.30	0.00	0.00	0	0	73	Member X
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _e P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear		# Bolt	# Hole	Use %	Controls		
								Φ _t P _n (kip)							
H SOL - 5/8" SOLID	1.64	1.2D + 1.0W 120°	36.0	58	9.94	0.00	0.00	0.00		0	0	16	Member		
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									

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Section 8 – 130.0' to 150.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls
	X			Y	Z	Φ _{R_{nv}} (kip)				Φ _{R_n} (kip)					
L PST - 1-1/2" DIA PIPE	-18.12	1.2D + 1.0W 210°	1.781	100	100	100	34.31	50.00	32.99	0.00	0.00	0	0	55	Member X
H SOL - 5/8" SOLID	-0.52	1.2D + 1.0W 240°	2.02	100	100	100	101.00	36.00	5.81	0.00	0.00	0	0	9	Member X
D SOL - 5/8" SOLID	-3.60	1.2D + 1.0W 120°	2.693	95	95	95	137.77	36.00	3.65	0.00	0.00	0	0	99	Member X
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear Φ _{R_{nv}} (kip)	Bear Φ _{R_n} (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls			
H SOL - 5/8" SOLID	2.82	1.2D + 1.0W 90°	36.0	58	9.94	0.00	0.00	0.00	0	0	28	Member			
D SOL - 5/8" SOLID	1.21	1.2D + 1.0W 210°	36.0	58	9.94	0.00	0.00	0.00	0	0	12	Member			
Max Splice Forces	Pu (kip)	Load Case	Φ _{R_{nt}} (kip)	Use %	Num Bolts	Bolt Type									

Section 9 – 150.0' to 170.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls
	X			Y	Z	ΦR _{nv} (kip)				ΦR _n (kip)					
L PST - 1-1/2" DIA PIPE	-27.46	1.2D + 1.0W 90°	1.781	100	100	100	34.31	50.00	32.99	0.00	0.00	0	0	83	Member X
H SOL - 5/8" SOLID	-0.74	1.2D + 1.0W 210°	2.02	100	100	100	101.00	36.00	5.81	0.00	0.00	0	0	13	Member X
D SOL - 5/8" SOLID	-3.53	1.2D + 1.0W 120°	2.693	95	95	95	137.77	36.00	3.65	0.00	0.00	0	0	97	Member X
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls			
L PST - 1-1/2" DIA PIPE	9.90		1.2D + 1.0W 120°	50.0	65	35.96	0.00	0.00		0	0	28	Member		
H SOL - 5/8" SOLID	2.37	1.2D + 1.0W 120°	36.0	58	9.94	0.00	0.00	0.00	0	0	24	Member			
D SOL - 5/8" SOLID	1.11	1.2D + 1.0W 210°	36.0	58	9.94	0.00	0.00	0.00	0	0	11	Member			
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									

Section 10 – 170.0' to 190.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
	X			Y	Z										
L PST - 1-1/2" DIA PIPE	-34.38	1.2D + 1.0W 300°	1.781	100	100	100	34.31	50.00	32.99	0.00	0.00	0	0	104	Member X
H SOL - 5/8" SOLID	-0.72	1.2D + 1.0W 240°	2.02	100	100	100	101.00	36.00	5.81	0.00	0.00	0	0	12	Member X
D SOL - 5/8" SOLID	-3.67	1.2D + 1.0W 90°	2.693	95	95	95	137.77	36.00	3.65	0.00	0.00	0	0	101	Member X
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls			
L PST - 1-1/2" DIA PIPE	17.41	1.2D + 1.0W 120°	50.0	65	35.96	0.00	0.00		0	0	48	Member			
H SOL - 5/8" SOLID	2.45	1.2D + 1.0W 90°	36.0	58	9.94	0.00	0.00	0.00	0	0	25	Member			
D SOL - 5/8" SOLID	1.03	1.2D + 1.0W 240°	36.0	58	9.94	0.00	0.00	0.00	0	0	10	Member			
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									
Bot Tension	9.81	1.2D + 1.0W 120°	81.36	12	4	5/8 A325									

Section 11 – 190.0' to 210.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls
	X			Y	Z	Φ _{R_{nv}} (kip)				Φ _{R_n} (kip)					
L PST - 1-1/2" DIA PIPE	-27.73	1.2D + 1.0W 90°	0.203	100	100	100	3.91	50.00	35.91	0.00	0.00	0	0	77	Member X
H SOL - 5/8" SOLID	-1.09	1.2D + 1.0W 240°	2.02	100	100	100	101.00	36.00	5.81	0.00	0.00	0	0	19	Member X
D SOL - 5/8" SOLID	-3.87	1.2D + 1.0W 90°	2.693	95	95	95	0.00	0.00	5.70	0.00	0.00	0	0	68	User Input
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear Φ _{R_{nv}} (kip)	Bear Φ _{R_n} (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls			
L PST - 1-1/2" DIA PIPE	10.47	1.2D + 1.0W N	50.0	65	35.96	0.00	0.00		0	0	29	Member			
H SOL - 5/8" SOLID	3.25	1.2D + 1.0W 120°	36.0	58	9.94	0.00	0.00	0.00	0	0	33	Member			

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D SOL - 5/8" SOLID	1.45	1.2D + 1.0W 240°	36.0	58	9.94	0.00	0.00	0.00	0	0	15	Member
Max Splice Forces	P _u (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type						
Bot Tension	10.46	1.2D + 1.0W N	81.36	13	4	5/8 A325						

Section 12 – 210.0' to 230.00'

Member Compression	Pu	Load Case	Len	Bracing %			F'y	Φc Pn	Shear	Bear	#	#	Use	Controls							
	(kip)			(ft)	X	Y			Z	KL/R					F'y	Φc Pn	ΦRnv	ΦRn			
															(ksi)	(kip)	(kip)	(kip)			
L PST - 1-1/2" DIA PIPE	-14.58	1.2D + 1.0W 240°	1.781	100	100	100	34.31	50.00	32.99	0.00	0.00	0	0	44	Member X						
H SOL - 5/8" SOLID	-0.02	1.2D + 1.0W 300°	2.02	100	100	100	101.00	36.00	5.81	0.00	0.00	0	0	0	Member X						
D SOL - 5/8" SOLID	-1.41	1.2D + 1.0W 120°	2.693	100	100	100	145.02	36.00	3.30	0.00	0.00	0	0	43	Member X						
Member Tension	Pu	Load Case	Fy	Fu	ΦcPn	Shear	Bear	Blk Shear	#	#	Use	Controls									
	(kip)												(ksi)	(ksi)	(kip)	(kip)	(kip)	(kip)	Bolt	Hole	%
L PST - 1-1/2" DIA PIPE	0.63	1.2D + 1.0W 60°	50.0	65	35.96	0.00	0.00		0	0	2	Member									
H SOL - 5/8" SOLID	0.96	1.2D + 1.0W 60°	36.0	58	9.94	0.00	0.00	0.00	0	0	10	Member									
Max Splice Forces	Pu	Load Case	ΦRnt	Use	Num	Bolt Type															
	(kip)												(kip)	%	Bolts						
Bot Tension	0.37	1.2D + 1.0W 60°	81.36	0	4	5/8 A325															

Section 13 – 230.0' to 250.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Φc Pn (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls	
	X			Y	Z	ΦRnv (kip)			ΦRn (kip)						
L PST - 1-1/2" DIA PIPE	-14.46	1.2D + 1.0W 240°	1.781	100	100	100	34.31	50.00	32.99	0.00	0.00	0	0	44	Member X
D SOL - 5/8" SOLID	-1.44	1.2D + 1.0W 90°	2.693	100	100	100	145.02	36.00	3.30	0.00	0.00	0	0	44	Member X
Member Tension	Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	ΦcPn (kip)	Shear ΦRnv (kip)	Bear ΦRn (kip)	Blk Shear		# Bolt	# Hole	Use %	Controls		
	Φt Pn (kip)														
H SOL - 5/8" SOLID	0.97	1.2D + 1.0W 90°	36.0	58	9.94	0.00	0.00	0.00		0	0	10	Member		
Max Splice Forces	Pu (kip)	Load Case	ΦRnt (kip)	Use %	Num Bolts	Bolt Type									

Section 14 – 250.0' to 270.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Φc Pn (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls	
	X			Y	Z	ΦRnv (kip)			ΦRn (kip)						
L PST - 1-1/2" DIA PIPE	-20.90	1.2D + 1.0W 240°	1.781	100	100	100	34.31	50.00	32.99	0.00	0.00	0	0	63	Member X
H SOL - 5/8" SOLID	-1.19	1.2D + 1.0W 210°	2.02	100	100	100	101.00	36.00	5.81	0.00	0.00	0	0	20	Member X
D SOL - 5/8" SOLID	-2.40	1.2D + 1.0W 120°	2.693	100	100	100	145.02	36.00	3.30	0.00	0.00	0	0	73	Member X
Member Tension	Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	ΦcPn (kip)	Shear ΦRnv (kip)	Bear ΦRn (kip)	Blk Shear Φt Pn (kip)	#	#	Use	Controls			
										Bolt	Hole		%		
L PST - 1-1/2" DIA PIPE	9.13	1.2D + 1.0W 60°	50.0	65	35.96	0.00	0.00		0	0	25	Member			
H SOL - 5/8" SOLID	2.79	1.2D + 1.0W 120°	36.0	58	9.94	0.00	0.00	0.00	0	0	28	Member			
D SOL - 5/8" SOLID	1.73	1.2D + 1.0W 210°	36.0	58	9.94	0.00	0.00	0.00	0	0	17	Member			
Max Splice Forces	Pu (kip)	Load Case	ΦRnt (kip)	Use %	Num Bolts	Bolt Type									

Section 15 – 270.0' to 290.00'

Member Compression	Pu	Load Case	Len (ft)	Bracing %			F'y (ksi)	Φc Pn (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls	
	(kip)			ΦRnv (kip)	ΦRn (kip)										
L PST - 1-1/2" DIA PIPE	-15.73	1.2D + 1.0W 240°	1.781	100	100	100	34.31	50.00	32.99	0.00	0.00	0	0	48	Member X
H SOL - 5/8" SOLID	-1.10	1.2D + 1.0W 210°	2.02	100	100	100	101.00	36.00	5.81	0.00	0.00	0	0	19	Member X
D SOL - 5/8" SOLID	-2.27	1.2D + 1.0W 120°	2.693	100	100	100	145.02	36.00	3.30	0.00	0.00	0	0	69	Member X

Member Tension	Pu	Load Case	Fy (ksi)	Fu (ksi)	ΦcPn (kip)	Shear	Bear	Blk Shear		# Bolt	# Hole	Use %	Controls
	(kip)					ΦRnv (kip)	ΦRn (kip)	Φt Pn (kip)					
L PST - 1-1/2" DIA PIPE	5.74	1.2D + 1.0W 60°	50.0	65	35.96	0.00	0.00			0	0	16	Member

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H SOL - 5/8" SOLID	1.52	1.2D + 1.0W 120°	36.0	58	9.94	0.00	0.00	0.00	0	0	15	Member
D SOL - 5/8" SOLID	1.63	1.2D + 1.0W 210°	36.0	58	9.94	0.00	0.00	0.00	0	0	16	Member
	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type						
Max Splice Forces	5.72	1.2D + 1.0W 60°	81.36	7	4	5/8 A325						
Bot Tension												

Section 16 – 290.0' to 300.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F' _y (ksi)	Φ _c P _n (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls
	X			Y	Z	ΦR _{nv} (kip)				ΦR _n (kip)					
L PST - 1-1/2" DIA PIPE	-10.81	1.2D + 1.0W 60°	1.781	100	100	100	34.31	50.00	32.99	0.00	0.00	0	0	33	Member X
H SOL - 5/8" SOLID	-0.27	1.2D + 1.0W 90°	2.02	100	100	100	101.00	36.00	5.81	0.00	0.00	0	0	5	Member X
D SOL - 5/8" SOLID	-1.22	1.2D + 1.0W 240°	2.693	100	100	100	145.02	36.00	3.30	0.00	0.00	0	0	37	Member X
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear	# Bolt	# Hole	Use %	Controls			
								Φ _t P _n (kip)							
L PST - 1-1/2" DIA PIPE	1.71	1.2D + 1.0W 240°	50.0	65	35.96	0.00	0.00		0	0	5	Member			
H SOL - 5/8" SOLID	0.75	1.2D + 1.0W 240°	36.0	58	9.94	0.00	0.00	0.00	0	0	8	Member			
D SOL - 5/8" SOLID	0.44	1.2D + 1.0W 90°	36.0	58	9.94	0.00	0.00	0.00	0	0	4	Member			
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									

Section 17 – 300.0' to 320.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F'y (ksi)	Φc Pn (kip)	Shear ΦRnv (kip)	Bear ΦRn (kip)	# Bolt	# Hole	Use %	Controls
	X			Y	Z										
L PST - 1-1/2" DIA PIPE	-11.57	1.2D + 1.0W 60°	1.781	100	100	100	34.31	50.00	32.99	0.00	0.00	0	0	35	Member X
H SOL - 5/8" SOLID	-0.19	1.2D + 1.0W 60°	2.02	100	100	100	101.00	36.00	5.81	0.00	0.00	0	0	3	Member X
D SOL - 5/8" SOLID	-1.09	1.2D + 1.0W 210°	2.693	100	100	100	145.02	36.00	3.30	0.00	0.00	0	0	33	Member X
Member Tension	Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	ΦcPn (kip)	Shear ΦRnv (kip)	Bear ΦRn (kip)	Blk Shear Φt Pn (kip)	# Bolt	# Hole	Use %	Controls			
L PST - 1-1/2" DIA PIPE	2.91	1.2D + 1.0W 240°	50.0	65	35.96	0.00	0.00		0	0	8	Member			
H SOL - 5/8" SOLID	0.72	1.2D + 1.0W 300°	36.0	58	9.94	0.00	0.00	0.00	0	0	7	Member			
D SOL - 5/8" SOLID	0.34	1.2D + 1.0W 60°	36.0	58	9.94	0.00	0.00	0.00	0	0	3	Member			
Max Splice Forces	Pu (kip)	Load Case	ΦRnt (kip)	Use %	Num Bolts	Bolt Type									
Bot Tension	1.70						1.2D + 1.0W 120°	81.36	2	4	5/8 A325				

Section 18 – 320.0' to 340.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F'y (ksi)	Φc Pn (kip)	Shear ΦRnv (kip)	Bear ΦRn (kip)	# Bolt	# Hole	Use %	Controls
	X			Y	Z										
L PST - 1-1/2" DIA PIPE	-8.55	1.2D + 1.0W 60°	0.203	100	100	100	3.91	50.00	35.91	0.00	0.00	0	0	24	Member X
H SOL - 5/8" SOLID	-0.41	1.2D + 1.0W 60°	2.02	100	100	100	101.00	36.00	5.81	0.00	0.00	0	0	7	Member X
D SOL - 5/8" SOLID	-1.30	1.2D + 1.0W 210°	2.693	100	100	100	145.02	36.00	3.30	0.00	0.00	0	0	40	Member X
Member Tension	Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	ΦcPn (kip)	Shear ΦRnv (kip)	Bear ΦRn (kip)	Blk Shear		# Bolt	# Hole	Use %	Controls		
								Φt Pn (kip)							
L PST - 1-1/2" DIA PIPE	1.92	1.2D + 1.0W 60°	50.0	65	35.96	0.00	0.00			0	0	5	Member		
H SOL - 5/8" SOLID	1.91	1.2D + 1.0W 240°	36.0	58	9.94	0.00	0.00	0.00	0.00	0	0	19	Member		
D SOL - 5/8" SOLID	0.58	1.2D + 1.0W 60°	36.0	58	9.94	0.00	0.00	0.00	0.00	0	0	6	Member		
Max Splice Forces	Pu (kip)	Load Case	ΦRnt (kip)	Use %	Num Bolts	Bolt Type									
Bot Tension	0.42					1.2D + 1.0W 120°	81.36	1	4	5/8 A325					

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DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)
1.2D + 1.0W Normal	48.02	1/4 EHS	A1	33	3.99	0.44	11
		1/4 EHS	A1a	33a	3.99	0.78	20
		1/4 EHS	A1b	33b	3.99	0.82	21
	93.77	5/16 EHS	A1	64	6.72	0.1	2
		5/16 EHS	A1a	64a	6.72	2.19	33
		5/16 EHS	A1b	64b	6.72	2.17	32
	148.02	5/16 EHS	A1	98	6.72	0.2	3
		5/16 EHS	A1a	98a	6.72	4.88	73
		5/16 EHS	A1b	98b	6.72	4.79	71
	206.23	3/8 EHS	A2	136	9.24	0.36	4
		3/8 EHS	A2a	136a	9.24	6.33	69
		3/8 EHS	A2b	136b	9.24	6.41	69
	266.23	7/16 EHS	A2	175	12.48	0.78	6
		7/16 EHS	A2a	175a	12.48	6.76	54
		7/16 EHS	A2b	175b	12.48	6.72	54
	327.33	7/16 HS	A2	216	8.7	1.16	13
		7/16 HS	A2a	216a	8.7	5.86	67
		7/16 HS	A2b	216b	8.7	5.89	68
1.2D + 1.0W 60°	48.02	1/4 EHS	A1	33	3.99	0.57	14
		1/4 EHS	A1a	33a	3.99	0.55	14
		1/4 EHS	A1b	33b	3.99	1.25	31
	93.77	5/16 EHS	A1	64	6.72	0.7	10
		5/16 EHS	A1a	64a	6.72	0.71	11
		5/16 EHS	A1b	64b	6.72	2.74	41
	148.02	5/16 EHS	A1	98	6.72	0.65	10
		5/16 EHS	A1a	98a	6.72	0.68	10
		5/16 EHS	A1b	98b	6.72	5.31	79
	206.23	3/8 EHS	A2	136	9.24	1.22	13
		3/8 EHS	A2a	136a	9.24	1.22	13
		3/8 EHS	A2b	136b	9.24	6.95	75
	266.23	7/16 EHS	A2	175	12.48	1.98	16
		7/16 EHS	A2a	175a	12.48	1.98	16
		7/16 EHS	A2b	175b	12.48	7.81	63
	327.33	7/16 HS	A2	216	8.7	2.28	26
		7/16 HS	A2a	216a	8.7	2.27	26
		7/16 HS	A2b	216b	8.7	7.2	83
1.2D + 1.0W 90°	48.02	1/4 EHS	A1	33	3.99	0.66	17
		1/4 EHS	A1a	33a	3.99	0.48	12
		1/4 EHS	A1b	33b	3.99	1.04	26
	93.77	5/16 EHS	A1	64	6.72	1.53	23
		5/16 EHS	A1a	64a	6.72	0.25	4
		5/16 EHS	A1b	64b	6.72	2.66	40
	148.02	5/16 EHS	A1	98	6.72	2.83	42
		5/16 EHS	A1a	98a	6.72	0.28	4
		5/16 EHS	A1b	98b	6.72	5.65	84
	206.23	3/8 EHS	A2	136	9.24	4.07	44
		3/8 EHS	A2a	136a	9.24	0.51	6
		3/8 EHS	A2b	136b	9.24	7.29	79
	266.23	7/16 EHS	A2	175	12.48	4.5	36
		7/16 EHS	A2a	175a	12.48	1.01	8
		7/16 EHS	A2b	175b	12.48	7.84	63
	327.33	7/16 HS	A2	216	8.7	4.06	47
		7/16 HS	A2a	216a	8.7	1.4	16
		7/16 HS	A2b	216b	8.7	6.94	80
1.2D + 1.0W 120°	48.02	1/4 EHS	A1	33	3.99	0.82	21
		1/4 EHS	A1a	33a	3.99	0.44	11
		1/4 EHS	A1b	33b	3.99	0.78	20
	93.77	5/16 EHS	A1	64	6.72	2.17	32
		5/16 EHS	A1a	64a	6.72	0.1	2

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DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)
	148.02	5/16 EHS	A1b	64b	6.72	2.19	33
		5/16 EHS	A1	98	6.72	4.79	71
		5/16 EHS	A1a	98a	6.72	0.2	3
	206.23	5/16 EHS	A1b	98b	6.72	4.88	73
		3/8 EHS	A2	136	9.24	6.41	69
		3/8 EHS	A2a	136a	9.24	0.36	4
	266.23	3/8 EHS	A2b	136b	9.24	6.32	68
		7/16 EHS	A2	175	12.48	6.72	54
		7/16 EHS	A2a	175a	12.48	0.78	6
	327.33	7/16 EHS	A2b	175b	12.48	6.75	54
		7/16 HS	A2	216	8.7	5.88	68
		7/16 HS	A2a	216a	8.7	1.16	13
	48.02	7/16 HS	A2b	216b	8.7	5.88	68
		1/4 EHS	A1	33	3.99	1.25	31
		1/4 EHS	A1a	33a	3.99	0.57	14
1.2D + 1.0W 180°	93.77	1/4 EHS	A1b	33b	3.99	0.55	14
		5/16 EHS	A1	64	6.72	2.75	41
		5/16 EHS	A1a	64a	6.72	0.7	10
	148.02	5/16 EHS	A1b	64b	6.72	0.71	11
		5/16 EHS	A1	98	6.72	5.3	79
		5/16 EHS	A1a	98a	6.72	0.66	10
	206.23	5/16 EHS	A1b	98b	6.72	0.68	10
		3/8 EHS	A2	136	9.24	6.91	75
		3/8 EHS	A2a	136a	9.24	1.23	13
	266.23	3/8 EHS	A2b	136b	9.24	1.22	13
		7/16 EHS	A2	175	12.48	7.72	62
		7/16 EHS	A2a	175a	12.48	1.99	16
	327.33	7/16 EHS	A2b	175b	12.48	1.99	16
		7/16 HS	A2	216	8.7	7.09	82
		7/16 HS	A2a	216a	8.7	2.29	26
1.2D + 1.0W 210°	48.02	7/16 HS	A2b	216b	8.7	2.28	26
		1/4 EHS	A1	33	3.99	1.04	26
		1/4 EHS	A1a	33a	3.99	0.66	17
	93.77	1/4 EHS	A1b	33b	3.99	0.48	12
		5/16 EHS	A1	64	6.72	2.66	40
		5/16 EHS	A1a	64a	6.72	1.53	23
	148.02	5/16 EHS	A1b	64b	6.72	0.25	4
		5/16 EHS	A1	98	6.72	5.65	84
		5/16 EHS	A1a	98a	6.72	2.83	42
	206.23	5/16 EHS	A1b	98b	6.72	0.28	4
		3/8 EHS	A2	136	9.24	7.3	79
		3/8 EHS	A2a	136a	9.24	4.06	44
	266.23	3/8 EHS	A2b	136b	9.24	0.51	6
		7/16 EHS	A2	175	12.48	7.85	63
		7/16 EHS	A2a	175a	12.48	4.5	36
1.2D + 1.0W 240°	327.33	7/16 EHS	A2b	175b	12.48	1.01	8
		7/16 HS	A2	216	8.7	6.92	80
		7/16 HS	A2a	216a	8.7	4.08	47
	48.02	7/16 HS	A2b	216b	8.7	1.4	16
		1/4 EHS	A1	33	3.99	0.78	20
		1/4 EHS	A1a	33a	3.99	0.82	21
	93.77	1/4 EHS	A1b	33b	3.99	0.44	11
		5/16 EHS	A1	64	6.72	2.19	33
		5/16 EHS	A1a	64a	6.72	2.17	32
	148.02	5/16 EHS	A1b	64b	6.72	0.1	2
		5/16 EHS	A1	98	6.72	4.88	73
		5/16 EHS	A1a	98a	6.72	4.79	71
	206.23	5/16 EHS	A1b	98b	6.72	0.2	3
		3/8 EHS	A2	136	9.24	6.33	69

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DETAILED CABLE FORCES								
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)	
	266.23	3/8 EHS	A2a	136a	9.24	6.4	69	
		3/8 EHS	A2b	136b	9.24	0.36	4	
		7/16 EHS	A2	175	12.48	6.76	54	
		7/16 EHS	A2a	175a	12.48	6.71	54	
	327.33	7/16 EHS	A2b	175b	12.48	0.78	6	
		7/16 HS	A2	216	8.7	5.86	67	
		7/16 HS	A2a	216a	8.7	5.9	68	
		7/16 HS	A2b	216b	8.7	1.16	13	
	1.2D + 1.0W 300°	48.02	1/4 EHS	A1	33	3.99	0.55	14
			1/4 EHS	A1a	33a	3.99	1.25	31
		93.77	1/4 EHS	A1b	33b	3.99	0.57	14
			5/16 EHS	A1	64	6.72	0.72	11
		148.02	5/16 EHS	A1a	64a	6.72	2.74	41
			5/16 EHS	A1b	64b	6.72	0.7	10
5/16 EHS			A1	98	6.72	0.68	10	
5/16 EHS			A1a	98a	6.72	5.31	79	
206.23		5/16 EHS	A1b	98b	6.72	0.65	10	
		3/8 EHS	A2	136	9.24	1.22	13	
		3/8 EHS	A2a	136a	9.24	6.95	75	
		3/8 EHS	A2b	136b	9.24	1.22	13	
266.23		7/16 EHS	A2	175	12.48	1.98	16	
		7/16 EHS	A2a	175a	12.48	7.81	63	
	7/16 EHS	A2b	175b	12.48	1.98	16		
	7/16 HS	A2	216	8.7	2.26	26		
327.33	7/16 HS	A2a	216a	8.7	7.2	83		
	7/16 HS	A2b	216b	8.7	2.29	26		
	1.2D + 1.0W 330°	48.02	1/4 EHS	A1	33	3.99	0.48	12
			1/4 EHS	A1a	33a	3.99	1.04	26
93.77		1/4 EHS	A1b	33b	3.99	0.66	17	
		5/16 EHS	A1	64	6.72	0.25	4	
148.02		5/16 EHS	A1a	64a	6.72	2.66	40	
		5/16 EHS	A1b	64b	6.72	1.52	23	
		5/16 EHS	A1	98	6.72	0.28	4	
		5/16 EHS	A1a	98a	6.72	5.65	84	
206.23		5/16 EHS	A1b	98b	6.72	2.83	42	
		3/8 EHS	A2	136	9.24	0.51	6	
		3/8 EHS	A2a	136a	9.24	7.3	79	
		3/8 EHS	A2b	136b	9.24	4.07	44	
266.23		7/16 EHS	A2	175	12.48	1.01	8	
		7/16 EHS	A2a	175a	12.48	7.84	63	
	7/16 EHS	A2b	175b	12.48	4.5	36		
	7/16 HS	A2	216	8.7	1.4	16		
327.33	7/16 HS	A2a	216a	8.7	6.93	80		
	7/16 HS	A2b	216b	8.7	4.07	47		
	1.2D + 1.0Di + 1.0Wi Normal	48.02	1/4 EHS	A1	33	3.99	0.73	18
			1/4 EHS	A1a	33a	3.99	0.79	20
93.77		1/4 EHS	A1b	33b	3.99	0.8	20	
		5/16 EHS	A1	64	6.72	1	15	
148.02		5/16 EHS	A1a	64a	6.72	1.15	17	
		5/16 EHS	A1b	64b	6.72	1.15	17	
		5/16 EHS	A1	98	6.72	0.74	11	
		5/16 EHS	A1a	98a	6.72	1.06	16	
206.23		5/16 EHS	A1b	98b	6.72	1.06	16	
		3/8 EHS	A2	136	9.24	1.15	12	
		3/8 EHS	A2a	136a	9.24	1.54	17	
		3/8 EHS	A2b	136b	9.24	1.54	17	
266.23		7/16 EHS	A2	175	12.48	1.58	13	
		7/16 EHS	A2a	175a	12.48	1.95	16	
	7/16 EHS	A2b	175b	12.48	1.95	16		

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DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)
1.2D + 1.0Di + 1.0Wi 60°	327.33	7/16 HS	A2	216	8.7	1.06	12
		7/16 HS	A2a	216a	8.7	1.4	16
		7/16 HS	A2b	216b	8.7	1.4	16
	48.02	1/4 EHS	A1	33	3.99	0.75	19
		1/4 EHS	A1a	33a	3.99	0.75	19
		1/4 EHS	A1b	33b	3.99	0.82	20
	93.77	5/16 EHS	A1	64	6.72	1.05	16
		5/16 EHS	A1a	64a	6.72	1.05	16
		5/16 EHS	A1b	64b	6.72	1.2	18
	148.02	5/16 EHS	A1	98	6.72	0.85	13
		5/16 EHS	A1a	98a	6.72	0.85	13
		5/16 EHS	A1b	98b	6.72	1.17	17
1.2D + 1.0Di + 1.0Wi 90°	206.23	3/8 EHS	A2	136	9.24	1.28	14
		3/8 EHS	A2a	136a	9.24	1.27	14
		3/8 EHS	A2b	136b	9.24	1.66	18
	266.23	7/16 EHS	A2	175	12.48	1.7	14
		7/16 EHS	A2a	175a	12.48	1.7	14
		7/16 EHS	A2b	175b	12.48	2.08	17
	327.33	7/16 HS	A2	216	8.7	1.17	13
		7/16 HS	A2a	216a	8.7	1.17	13
		7/16 HS	A2b	216b	8.7	1.5	17
	48.02	1/4 EHS	A1	33	3.99	0.77	19
		1/4 EHS	A1a	33a	3.99	0.73	18
		1/4 EHS	A1b	33b	3.99	0.81	20
1.2D + 1.0Di + 1.0Wi 120°	93.77	5/16 EHS	A1	64	6.72	1.1	16
		5/16 EHS	A1a	64a	6.72	1.01	15
		5/16 EHS	A1b	64b	6.72	1.19	18
	148.02	5/16 EHS	A1	98	6.72	0.95	14
		5/16 EHS	A1a	98a	6.72	0.77	11
		5/16 EHS	A1b	98b	6.72	1.14	17
	206.23	3/8 EHS	A2	136	9.24	1.41	15
		3/8 EHS	A2a	136a	9.24	1.18	13
		3/8 EHS	A2b	136b	9.24	1.63	18
	266.23	7/16 EHS	A2	175	12.48	1.82	15
		7/16 EHS	A2a	175a	12.48	1.61	13
		7/16 EHS	A2b	175b	12.48	2.04	16
1.2D + 1.0Di + 1.0Wi 180°	327.33	7/16 HS	A2	216	8.7	1.28	15
		7/16 HS	A2a	216a	8.7	1.09	13
		7/16 HS	A2b	216b	8.7	1.47	17
	48.02	1/4 EHS	A1	33	3.99	0.79	20
		1/4 EHS	A1a	33a	3.99	0.73	18
		1/4 EHS	A1b	33b	3.99	0.79	20
	93.77	5/16 EHS	A1	64	6.72	1.15	17
		5/16 EHS	A1a	64a	6.72	1	15
		5/16 EHS	A1b	64b	6.72	1.15	17
	148.02	5/16 EHS	A1	98	6.72	1.06	16
		5/16 EHS	A1a	98a	6.72	0.74	11
		5/16 EHS	A1b	98b	6.72	1.06	16
1.2D + 1.0Di + 1.0Wi 180°	206.23	3/8 EHS	A2	136	9.24	1.54	17
		3/8 EHS	A2a	136a	9.24	1.15	12
		3/8 EHS	A2b	136b	9.24	1.54	17
	266.23	7/16 EHS	A2	175	12.48	1.95	16
		7/16 EHS	A2a	175a	12.48	1.58	13
		7/16 EHS	A2b	175b	12.48	1.95	16
	327.33	7/16 HS	A2	216	8.7	1.39	16
		7/16 HS	A2a	216a	8.7	1.06	12
		7/16 HS	A2b	216b	8.7	1.4	16
	48.02	1/4 EHS	A1	33	3.99	0.82	20
		1/4 EHS	A1a	33a	3.99	0.75	19

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DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)
	93.77	1/4 EHS	A1b	33b	3.99	0.75	19
		5/16 EHS	A1	64	6.72	1.2	18
		5/16 EHS	A1a	64a	6.72	1.05	16
	148.02	5/16 EHS	A1b	64b	6.72	1.05	16
		5/16 EHS	A1	98	6.72	1.17	17
		5/16 EHS	A1a	98a	6.72	0.85	13
	206.23	5/16 EHS	A1b	98b	6.72	0.85	13
		3/8 EHS	A2	136	9.24	1.67	18
		3/8 EHS	A2a	136a	9.24	1.28	14
	266.23	3/8 EHS	A2b	136b	9.24	1.27	14
		7/16 EHS	A2	175	12.48	2.08	17
		7/16 EHS	A2a	175a	12.48	1.7	14
	327.33	7/16 EHS	A2b	175b	12.48	1.7	14
		7/16 HS	A2	216	8.7	1.49	17
		7/16 HS	A2a	216a	8.7	1.18	14
	1.2D + 1.0Di + 1.0Wi 210°	7/16 HS	A2b	216b	8.7	1.17	13
		48.02	1/4 EHS	A1	3.99	0.81	20
			1/4 EHS	A1a	3.99	0.77	19
	93.77	1/4 EHS	A1b	33b	3.99	0.73	18
		5/16 EHS	A1	64	6.72	1.19	18
		5/16 EHS	A1a	64a	6.72	1.1	16
	148.02	5/16 EHS	A1b	64b	6.72	1.01	15
		5/16 EHS	A1	98	6.72	1.14	17
		5/16 EHS	A1a	98a	6.72	0.95	14
	206.23	5/16 EHS	A1b	98b	6.72	0.77	11
		3/8 EHS	A2	136	9.24	1.63	18
		3/8 EHS	A2a	136a	9.24	1.41	15
	266.23	3/8 EHS	A2b	136b	9.24	1.18	13
		7/16 EHS	A2	175	12.48	2.05	16
		7/16 EHS	A2a	175a	12.48	1.82	15
	327.33	7/16 EHS	A2b	175b	12.48	1.61	13
		7/16 HS	A2	216	8.7	1.47	17
		7/16 HS	A2a	216a	8.7	1.29	15
	1.2D + 1.0Di + 1.0Wi 240°	7/16 HS	A2b	216b	8.7	1.09	13
		48.02	1/4 EHS	A1	3.99	0.79	20
			1/4 EHS	A1a	3.99	0.8	20
	93.77	1/4 EHS	A1b	33b	3.99	0.73	18
		5/16 EHS	A1	64	6.72	1.15	17
		5/16 EHS	A1a	64a	6.72	1.15	17
	148.02	5/16 EHS	A1b	64b	6.72	1	15
		5/16 EHS	A1	98	6.72	1.06	16
		5/16 EHS	A1a	98a	6.72	1.06	16
	206.23	5/16 EHS	A1b	98b	6.72	0.74	11
		3/8 EHS	A2	136	9.24	1.54	17
		3/8 EHS	A2a	136a	9.24	1.54	17
	266.23	3/8 EHS	A2b	136b	9.24	1.15	12
		7/16 EHS	A2	175	12.48	1.95	16
		7/16 EHS	A2a	175a	12.48	1.95	16
	327.33	7/16 EHS	A2b	175b	12.48	1.58	13
		7/16 HS	A2	216	8.7	1.39	16
		7/16 HS	A2a	216a	8.7	1.4	16
	1.2D + 1.0Di + 1.0Wi 300°	7/16 HS	A2b	216b	8.7	1.06	12
		48.02	1/4 EHS	A1	3.99	0.75	19
			1/4 EHS	A1a	3.99	0.82	20
	93.77	1/4 EHS	A1b	33b	3.99	0.75	19
		5/16 EHS	A1	64	6.72	1.05	16
		5/16 EHS	A1a	64a	6.72	1.2	18
	148.02	5/16 EHS	A1b	64b	6.72	1.05	16
		5/16 EHS	A1	98	6.72	0.85	13

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DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)
	206.23	5/16 EHS	A1a	98a	6.72	1.17	17
		5/16 EHS	A1b	98b	6.72	0.85	13
		3/8 EHS	A2	136	9.24	1.28	14
		3/8 EHS	A2a	136a	9.24	1.66	18
	266.23	3/8 EHS	A2b	136b	9.24	1.28	14
		7/16 EHS	A2	175	12.48	1.7	14
		7/16 EHS	A2a	175a	12.48	2.08	17
		7/16 EHS	A2b	175b	12.48	1.7	14
	327.33	7/16 HS	A2	216	8.7	1.17	13
		7/16 HS	A2a	216a	8.7	1.5	17
		7/16 HS	A2b	216b	8.7	1.17	14
	48.02	1/4 EHS	A1	33	3.99	0.73	18
		1/4 EHS	A1a	33a	3.99	0.81	20
		1/4 EHS	A1b	33b	3.99	0.77	19
		5/16 EHS	A1	64	6.72	1.01	15
		5/16 EHS	A1a	64a	6.72	1.19	18
		5/16 EHS	A1b	64b	6.72	1.1	16
		5/16 EHS	A1	98	6.72	0.77	11
		5/16 EHS	A1a	98a	6.72	1.14	17
		5/16 EHS	A1b	98b	6.72	0.95	14
		3/8 EHS	A2	136	9.24	1.18	13
		3/8 EHS	A2a	136a	9.24	1.63	18
		3/8 EHS	A2b	136b	9.24	1.41	15
1.2D + 1.0Di + 1.0Wi 330°	266.23	7/16 EHS	A2	175	12.48	1.61	13
		7/16 EHS	A2a	175a	12.48	2.04	16
		7/16 EHS	A2b	175b	12.48	1.82	15
	327.33	7/16 HS	A2	216	8.7	1.09	12
		7/16 HS	A2a	216a	8.7	1.47	17
		7/16 HS	A2b	216b	8.7	1.29	15
	48.02	1/4 EHS	A1	33	3.99	0.62	16
		1/4 EHS	A1a	33a	3.99	0.62	16
		1/4 EHS	A1b	33b	3.99	0.62	16
		5/16 EHS	A1	64	6.72	0.93	14
		5/16 EHS	A1a	64a	6.72	0.95	14
		5/16 EHS	A1b	64b	6.72	0.95	14
		5/16 EHS	A1	98	6.72	0.76	11
		5/16 EHS	A1a	98a	6.72	0.9	13
		5/16 EHS	A1b	98b	6.72	0.9	13
		3/8 EHS	A2	136	9.24	1.15	12
		3/8 EHS	A2a	136a	9.24	1.33	14
		3/8 EHS	A2b	136b	9.24	1.33	14
1.2D + 1.0Ev + 1.0Eh Normal	266.23	7/16 EHS	A2	175	12.48	1.55	12
		7/16 EHS	A2a	175a	12.48	1.75	14
		7/16 EHS	A2b	175b	12.48	1.75	14
	327.33	7/16 HS	A2	216	8.7	1.08	12
		7/16 HS	A2a	216a	8.7	1.25	14
		7/16 HS	A2b	216b	8.7	1.25	14
	48.02	1/4 EHS	A1	33	3.99	0.62	16
		1/4 EHS	A1a	33a	3.99	0.62	16
		1/4 EHS	A1b	33b	3.99	0.62	15
		5/16 EHS	A1	64	6.72	0.93	14
		5/16 EHS	A1a	64a	6.72	0.93	14
		5/16 EHS	A1b	64b	6.72	0.96	14
		5/16 EHS	A1	98	6.72	0.81	12
		5/16 EHS	A1a	98a	6.72	0.81	12
		5/16 EHS	A1b	98b	6.72	0.95	14
		3/8 EHS	A2	136	9.24	1.21	13
		3/8 EHS	A2a	136a	9.24	1.21	13
		3/8 EHS	A2b	136b	9.24	1.39	15
1.2D + 1.0Ev + 1.0Eh 60°	206.23	5/16 EHS	A1	33	3.99	0.62	16
		5/16 EHS	A1a	33a	3.99	0.62	16
		5/16 EHS	A1b	33b	3.99	0.62	15
	93.77	5/16 EHS	A1	64	6.72	0.93	14
		5/16 EHS	A1a	64a	6.72	0.93	14
		5/16 EHS	A1b	64b	6.72	0.96	14
	148.02	5/16 EHS	A1	98	6.72	0.81	12
		5/16 EHS	A1a	98a	6.72	0.81	12
		5/16 EHS	A1b	98b	6.72	0.95	14
		3/8 EHS	A2	136	9.24	1.21	13
		3/8 EHS	A2a	136a	9.24	1.21	13
		3/8 EHS	A2b	136b	9.24	1.39	15

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DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)
1.2D + 1.0Ev + 1.0Eh 90°	266.23	7/16 EHS	A2	175	12.48	1.62	13
		7/16 EHS	A2a	175a	12.48	1.62	13
		7/16 EHS	A2b	175b	12.48	1.82	15
	327.33	7/16 HS	A2	216	8.7	1.13	13
		7/16 HS	A2a	216a	8.7	1.13	13
		7/16 HS	A2b	216b	8.7	1.32	15
	48.02	1/4 EHS	A1	33	3.99	0.62	16
		1/4 EHS	A1a	33a	3.99	0.62	16
		1/4 EHS	A1b	33b	3.99	0.62	15
	93.77	5/16 EHS	A1	64	6.72	0.94	14
		5/16 EHS	A1a	64a	6.72	0.93	14
		5/16 EHS	A1b	64b	6.72	0.95	14
	148.02	5/16 EHS	A1	98	6.72	0.86	13
		5/16 EHS	A1a	98a	6.72	0.78	12
		5/16 EHS	A1b	98b	6.72	0.94	14
	206.23	3/8 EHS	A2	136	9.24	1.27	14
		3/8 EHS	A2a	136a	9.24	1.17	13
		3/8 EHS	A2b	136b	9.24	1.37	15
1.2D + 1.0Ev + 1.0Eh 120°	266.23	7/16 EHS	A2	175	12.48	1.69	14
		7/16 EHS	A2a	175a	12.48	1.57	13
		7/16 EHS	A2b	175b	12.48	1.8	14
	327.33	7/16 HS	A2	216	8.7	1.19	14
		7/16 HS	A2a	216a	8.7	1.09	13
		7/16 HS	A2b	216b	8.7	1.3	15
	48.02	1/4 EHS	A1	33	3.99	0.62	16
		1/4 EHS	A1a	33a	3.99	0.62	16
		1/4 EHS	A1b	33b	3.99	0.62	16
	93.77	5/16 EHS	A1	64	6.72	0.95	14
		5/16 EHS	A1a	64a	6.72	0.93	14
		5/16 EHS	A1b	64b	6.72	0.95	14
	148.02	5/16 EHS	A1	98	6.72	0.9	13
		5/16 EHS	A1a	98a	6.72	0.76	11
		5/16 EHS	A1b	98b	6.72	0.9	13
	206.23	3/8 EHS	A2	136	9.24	1.33	14
		3/8 EHS	A2a	136a	9.24	1.15	12
		3/8 EHS	A2b	136b	9.24	1.33	14
1.2D + 1.0Ev + 1.0Eh 180°	266.23	7/16 EHS	A2	175	12.48	1.75	14
		7/16 EHS	A2a	175a	12.48	1.55	12
		7/16 EHS	A2b	175b	12.48	1.75	14
	327.33	7/16 HS	A2	216	8.7	1.25	14
		7/16 HS	A2a	216a	8.7	1.08	12
		7/16 HS	A2b	216b	8.7	1.25	14
	48.02	1/4 EHS	A1	33	3.99	0.62	15
		1/4 EHS	A1a	33a	3.99	0.62	16
		1/4 EHS	A1b	33b	3.99	0.62	16
	93.77	5/16 EHS	A1	64	6.72	0.96	14
		5/16 EHS	A1a	64a	6.72	0.93	14
		5/16 EHS	A1b	64b	6.72	0.93	14
	148.02	5/16 EHS	A1	98	6.72	0.95	14
		5/16 EHS	A1a	98a	6.72	0.81	12
		5/16 EHS	A1b	98b	6.72	0.81	12
	206.23	3/8 EHS	A2	136	9.24	1.39	15
		3/8 EHS	A2a	136a	9.24	1.21	13
		3/8 EHS	A2b	136b	9.24	1.21	13
	266.23	7/16 EHS	A2	175	12.48	1.82	15
		7/16 EHS	A2a	175a	12.48	1.62	13
		7/16 EHS	A2b	175b	12.48	1.62	13
	327.33	7/16 HS	A2	216	8.7	1.32	15
		7/16 HS	A2a	216a	8.7	1.13	13

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DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)
1.2D + 1.0Ev + 1.0Eh 210°	48.02	7/16 HS	A2b	216b	8.7	1.13	13
		1/4 EHS	A1	33	3.99	0.62	15
		1/4 EHS	A1a	33a	3.99	0.62	16
		1/4 EHS	A1b	33b	3.99	0.62	16
	93.77	5/16 EHS	A1	64	6.72	0.95	14
		5/16 EHS	A1a	64a	6.72	0.94	14
		5/16 EHS	A1b	64b	6.72	0.93	14
	148.02	5/16 EHS	A1	98	6.72	0.94	14
		5/16 EHS	A1a	98a	6.72	0.86	13
		5/16 EHS	A1b	98b	6.72	0.78	12
	206.23	3/8 EHS	A2	136	9.24	1.37	15
		3/8 EHS	A2a	136a	9.24	1.27	14
		3/8 EHS	A2b	136b	9.24	1.17	13
	266.23	7/16 EHS	A2	175	12.48	1.8	14
		7/16 EHS	A2a	175a	12.48	1.69	14
		7/16 EHS	A2b	175b	12.48	1.57	13
	327.33	7/16 HS	A2	216	8.7	1.3	15
		7/16 HS	A2a	216a	8.7	1.19	14
		7/16 HS	A2b	216b	8.7	1.09	13
1.2D + 1.0Ev + 1.0Eh 240°	48.02	1/4 EHS	A1	33	3.99	0.62	16
		1/4 EHS	A1a	33a	3.99	0.62	16
		1/4 EHS	A1b	33b	3.99	0.62	16
	93.77	5/16 EHS	A1	64	6.72	0.95	14
		5/16 EHS	A1a	64a	6.72	0.95	14
		5/16 EHS	A1b	64b	6.72	0.93	14
	148.02	5/16 EHS	A1	98	6.72	0.9	13
		5/16 EHS	A1a	98a	6.72	0.9	13
		5/16 EHS	A1b	98b	6.72	0.76	11
	206.23	3/8 EHS	A2	136	9.24	1.33	14
		3/8 EHS	A2a	136a	9.24	1.33	14
		3/8 EHS	A2b	136b	9.24	1.15	12
	266.23	7/16 EHS	A2	175	12.48	1.75	14
		7/16 EHS	A2a	175a	12.48	1.75	14
		7/16 EHS	A2b	175b	12.48	1.55	12
	327.33	7/16 HS	A2	216	8.7	1.25	14
		7/16 HS	A2a	216a	8.7	1.25	14
		7/16 HS	A2b	216b	8.7	1.08	12
1.2D + 1.0Ev + 1.0Eh 300°	48.02	1/4 EHS	A1	33	3.99	0.62	16
		1/4 EHS	A1a	33a	3.99	0.62	15
		1/4 EHS	A1b	33b	3.99	0.62	16
	93.77	5/16 EHS	A1	64	6.72	0.93	14
		5/16 EHS	A1a	64a	6.72	0.96	14
		5/16 EHS	A1b	64b	6.72	0.93	14
	148.02	5/16 EHS	A1	98	6.72	0.81	12
		5/16 EHS	A1a	98a	6.72	0.95	14
		5/16 EHS	A1b	98b	6.72	0.81	12
	206.23	3/8 EHS	A2	136	9.24	1.21	13
		3/8 EHS	A2a	136a	9.24	1.39	15
		3/8 EHS	A2b	136b	9.24	1.21	13
	266.23	7/16 EHS	A2	175	12.48	1.62	13
		7/16 EHS	A2a	175a	12.48	1.82	15
		7/16 EHS	A2b	175b	12.48	1.62	13
	327.33	7/16 HS	A2	216	8.7	1.13	13
		7/16 HS	A2a	216a	8.7	1.32	15
		7/16 HS	A2b	216b	8.7	1.13	13
1.2D + 1.0Ev + 1.0Eh 330°	48.02	1/4 EHS	A1	33	3.99	0.62	16
		1/4 EHS	A1a	33a	3.99	0.62	15
		1/4 EHS	A1b	33b	3.99	0.62	16
	93.77	5/16 EHS	A1	64	6.72	0.93	14

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DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)
	148.02	5/16 EHS	A1a	64a	6.72	0.95	14
		5/16 EHS	A1b	64b	6.72	0.94	14
		5/16 EHS	A1	98	6.72	0.78	12
		5/16 EHS	A1a	98a	6.72	0.94	14
	206.23	5/16 EHS	A1b	98b	6.72	0.86	13
		3/8 EHS	A2	136	9.24	1.17	13
		3/8 EHS	A2a	136a	9.24	1.37	15
		3/8 EHS	A2b	136b	9.24	1.27	14
	266.23	7/16 EHS	A2	175	12.48	1.57	13
		7/16 EHS	A2a	175a	12.48	1.8	14
		7/16 EHS	A2b	175b	12.48	1.69	14
	327.33	7/16 HS	A2	216	8.7	1.09	13
		7/16 HS	A2a	216a	8.7	1.3	15
		7/16 HS	A2b	216b	8.7	1.19	14
	48.02	1/4 EHS	A1	33	3.99	0.47	12
		1/4 EHS	A1a	33a	3.99	0.71	18
		1/4 EHS	A1b	33b	3.99	0.72	18
	93.77	5/16 EHS	A1	64	6.72	0.58	9
		5/16 EHS	A1a	64a	6.72	1.16	17
		5/16 EHS	A1b	64b	6.72	1.16	17
	148.02	5/16 EHS	A1	98	6.72	0.07	1
		5/16 EHS	A1a	98a	6.72	1.3	19
		5/16 EHS	A1b	98b	6.72	1.29	19
	206.23	3/8 EHS	A2	136	9.24	0.31	3
		3/8 EHS	A2a	136a	9.24	1.82	20
		3/8 EHS	A2b	136b	9.24	1.83	20
	266.23	7/16 EHS	A2	175	12.48	0.79	6
		7/16 EHS	A2a	175a	12.48	2.33	19
		7/16 EHS	A2b	175b	12.48	2.33	19
	327.33	7/16 HS	A2	216	8.7	0.67	8
		7/16 HS	A2a	216a	8.7	1.99	23
		7/16 HS	A2b	216b	8.7	1.99	23
1.0D + 1.0W Service 60°	48.02	1/4 EHS	A1	33	3.99	0.56	14
		1/4 EHS	A1a	33a	3.99	0.56	14
		1/4 EHS	A1b	33b	3.99	0.78	20
	93.77	5/16 EHS	A1	64	6.72	0.77	11
		5/16 EHS	A1a	64a	6.72	0.77	11
		5/16 EHS	A1b	64b	6.72	1.36	20
	148.02	5/16 EHS	A1	98	6.72	0.57	8
		5/16 EHS	A1a	98a	6.72	0.57	9
		5/16 EHS	A1b	98b	6.72	1.8	27
	206.23	3/8 EHS	A2	136	9.24	0.96	10
		3/8 EHS	A2a	136a	9.24	0.96	10
		3/8 EHS	A2b	136b	9.24	2.45	26
	266.23	7/16 EHS	A2	175	12.48	1.43	11
		7/16 EHS	A2a	175a	12.48	1.43	11
		7/16 EHS	A2b	175b	12.48	2.98	24
	327.33	7/16 HS	A2	216	8.7	1.26	15
		7/16 HS	A2a	216a	8.7	1.26	15
		7/16 HS	A2b	216b	8.7	2.55	29
	48.02	1/4 EHS	A1	33	3.99	0.63	16
		1/4 EHS	A1a	33a	3.99	0.5	13
		1/4 EHS	A1b	33b	3.99	0.76	19
	93.77	5/16 EHS	A1	64	6.72	0.97	14
		5/16 EHS	A1a	64a	6.72	0.62	9
		5/16 EHS	A1b	64b	6.72	1.3	19
	148.02	5/16 EHS	A1	98	6.72	0.95	14
		5/16 EHS	A1a	98a	6.72	0.28	4
		5/16 EHS	A1b	98b	6.72	1.67	25

ASSET: 370667, Lake City
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14873543_C4_04

DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)
	206.23	3/8 EHS	A2	136	9.24	1.42	15
		3/8 EHS	A2a	136a	9.24	0.55	6
		3/8 EHS	A2b	136b	9.24	2.27	25
	266.23	7/16 EHS	A2	175	12.48	1.89	15
		7/16 EHS	A2a	175a	12.48	1	8
		7/16 EHS	A2b	175b	12.48	2.79	22
	327.33	7/16 HS	A2	216	8.7	1.64	19
		7/16 HS	A2a	216a	8.7	0.89	10
		7/16 HS	A2b	216b	8.7	2.38	27
	48.02	1/4 EHS	A1	33	3.99	0.72	18
		1/4 EHS	A1a	33a	3.99	0.47	12
		1/4 EHS	A1b	33b	3.99	0.71	18
	93.77	5/16 EHS	A1	64	6.72	1.16	17
		5/16 EHS	A1a	64a	6.72	0.58	9
		5/16 EHS	A1b	64b	6.72	1.16	17
1.0D + 1.0W Service 120°	148.02	5/16 EHS	A1	98	6.72	1.3	19
		5/16 EHS	A1a	98a	6.72	0.07	1
		5/16 EHS	A1b	98b	6.72	1.3	19
	206.23	3/8 EHS	A2	136	9.24	1.83	20
		3/8 EHS	A2a	136a	9.24	0.31	3
		3/8 EHS	A2b	136b	9.24	1.82	20
	266.23	7/16 EHS	A2	175	12.48	2.33	19
		7/16 EHS	A2a	175a	12.48	0.79	6
		7/16 EHS	A2b	175b	12.48	2.33	19
	327.33	7/16 HS	A2	216	8.7	1.99	23
		7/16 HS	A2a	216a	8.7	0.67	8
		7/16 HS	A2b	216b	8.7	1.99	23
	48.02	1/4 EHS	A1	33	3.99	0.78	20
		1/4 EHS	A1a	33a	3.99	0.56	14
		1/4 EHS	A1b	33b	3.99	0.56	14
1.0D + 1.0W Service 180°	93.77	5/16 EHS	A1	64	6.72	1.36	20
		5/16 EHS	A1a	64a	6.72	0.77	11
		5/16 EHS	A1b	64b	6.72	0.77	11
	148.02	5/16 EHS	A1	98	6.72	1.8	27
		5/16 EHS	A1a	98a	6.72	0.57	8
		5/16 EHS	A1b	98b	6.72	0.57	9
	206.23	3/8 EHS	A2	136	9.24	2.45	27
		3/8 EHS	A2a	136a	9.24	0.96	10
		3/8 EHS	A2b	136b	9.24	0.96	10
	266.23	7/16 EHS	A2	175	12.48	3	24
		7/16 EHS	A2a	175a	12.48	1.42	11
		7/16 EHS	A2b	175b	12.48	1.43	11
	327.33	7/16 HS	A2	216	8.7	2.55	29
		7/16 HS	A2a	216a	8.7	1.27	15
		7/16 HS	A2b	216b	8.7	1.26	14
1.0D + 1.0W Service 210°	48.02	1/4 EHS	A1	33	3.99	0.76	19
		1/4 EHS	A1a	33a	3.99	0.63	16
		1/4 EHS	A1b	33b	3.99	0.5	13
	93.77	5/16 EHS	A1	64	6.72	1.3	19
		5/16 EHS	A1a	64a	6.72	0.97	14
		5/16 EHS	A1b	64b	6.72	0.61	9
	148.02	5/16 EHS	A1	98	6.72	1.68	25
		5/16 EHS	A1a	98a	6.72	0.95	14
		5/16 EHS	A1b	98b	6.72	0.28	4
	206.23	3/8 EHS	A2	136	9.24	2.28	25
		3/8 EHS	A2a	136a	9.24	1.42	15
		3/8 EHS	A2b	136b	9.24	0.55	6
	266.23	7/16 EHS	A2	175	12.48	2.8	22
		7/16 EHS	A2a	175a	12.48	1.89	15

ASSET: 370667, Lake City
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14873543_C4_04

DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)
1.0D + 1.0W Service 240°	327.33	7/16 EHS	A2b	175b	12.48	1	8
		7/16 HS	A2	216	8.7	2.37	27
		7/16 HS	A2a	216a	8.7	1.64	19
		7/16 HS	A2b	216b	8.7	0.88	10
	48.02	1/4 EHS	A1	33	3.99	0.71	18
		1/4 EHS	A1a	33a	3.99	0.72	18
		1/4 EHS	A1b	33b	3.99	0.47	12
		5/16 EHS	A1	64	6.72	1.16	17
	93.77	5/16 EHS	A1a	64a	6.72	1.16	17
		5/16 EHS	A1b	64b	6.72	0.58	9
		5/16 EHS	A1	98	6.72	1.31	19
		5/16 EHS	A1a	98a	6.72	1.3	19
	148.02	5/16 EHS	A1b	98b	6.72	0.07	1
		3/8 EHS	A2	136	9.24	1.83	20
		3/8 EHS	A2a	136a	9.24	1.83	20
		3/8 EHS	A2b	136b	9.24	0.31	3
	266.23	7/16 EHS	A2	175	12.48	2.34	19
		7/16 EHS	A2a	175a	12.48	2.33	19
		7/16 EHS	A2b	175b	12.48	0.78	6
		7/16 HS	A2	216	8.7	1.99	23
1.0D + 1.0W Service 300°	327.33	7/16 HS	A2a	216a	8.7	2	23
		7/16 HS	A2b	216b	8.7	0.67	8
	48.02	1/4 EHS	A1	33	3.99	0.56	14
		1/4 EHS	A1a	33a	3.99	0.78	20
		1/4 EHS	A1b	33b	3.99	0.56	14
	93.77	5/16 EHS	A1	64	6.72	0.77	11
		5/16 EHS	A1a	64a	6.72	1.36	20
		5/16 EHS	A1b	64b	6.72	0.77	11
	148.02	5/16 EHS	A1	98	6.72	0.57	9
		5/16 EHS	A1a	98a	6.72	1.8	27
		5/16 EHS	A1b	98b	6.72	0.56	8
	206.23	3/8 EHS	A2	136	9.24	0.96	10
		3/8 EHS	A2a	136a	9.24	2.45	27
		3/8 EHS	A2b	136b	9.24	0.96	10
	266.23	7/16 EHS	A2	175	12.48	1.43	11
		7/16 EHS	A2a	175a	12.48	3	24
		7/16 EHS	A2b	175b	12.48	1.43	11
		7/16 HS	A2	216	8.7	1.26	14
1.0D + 1.0W Service 330°	327.33	7/16 HS	A2a	216a	8.7	2.56	29
		7/16 HS	A2b	216b	8.7	1.26	15
	48.02	1/4 EHS	A1	33	3.99	0.5	13
		1/4 EHS	A1a	33a	3.99	0.76	19
		1/4 EHS	A1b	33b	3.99	0.63	16
	93.77	5/16 EHS	A1	64	6.72	0.62	9
		5/16 EHS	A1a	64a	6.72	1.3	19
		5/16 EHS	A1b	64b	6.72	0.97	14
	148.02	5/16 EHS	A1	98	6.72	0.28	4
		5/16 EHS	A1a	98a	6.72	1.67	25
		5/16 EHS	A1b	98b	6.72	0.95	14
	206.23	3/8 EHS	A2	136	9.24	0.55	6
		3/8 EHS	A2a	136a	9.24	2.27	25
		3/8 EHS	A2b	136b	9.24	1.42	15
	266.23	7/16 EHS	A2	175	12.48	1	8
		7/16 EHS	A2a	175a	12.48	2.79	22
		7/16 EHS	A2b	175b	12.48	1.89	15
		7/16 HS	A2	216	8.7	0.89	10
	327.33	7/16 HS	A2a	216a	8.7	2.37	27
		7/16 HS	A2b	216b	8.7	1.64	19

ASSET: 370667, Lake City
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14873543_C4_04

MAXIMUM CABLE FORCES SUMMARY

Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)
1.2D + 1.0W 60°	48.02	1/4 EHS	A1b	33b	3.99	1.25	31
1.2D + 1.0W 60°	93.77	5/16 EHS	A1b	64b	6.72	2.74	41
1.2D + 1.0W 90°	148.02	5/16 EHS	A1b	98b	6.72	5.65	84
1.2D + 1.0W 90°	206.23	3/8 EHS	A2b	136b	9.24	7.29	79
1.2D + 1.0W 60°	266.23	7/16 EHS	A2b	175b	12.48	7.81	63
1.2D + 1.0W 60°	327.33	7/16 HS	A2b	216b	8.70	7.20	83

ASSET: 370667, Lake City
CUSTOMER: VERIZON WIRELESS

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DEFLECTIONS AND ROTATIONS					
Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	184.45	0.3103	0.0000	0.0285	0.0285
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	279.11	0.2794	0.0038	0.1131	0.1131
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	184.45	0.3446	0.0001	0.0213	0.0213
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	279.11	0.3445	0.0044	0.1615	0.1615
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	184.45	0.2858	0.0000	0.0462	0.0462
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	279.11	0.2219	-0.0023	0.0973	0.0974
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	184.45	0.3124	0.0000	0.0282	0.0282
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	279.11	0.2822	-0.0029	0.1106	0.1106
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	184.45	0.3409	0.0000	0.0198	0.0198
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	279.11	0.3368	-0.0002	0.1357	0.1357
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	184.45	0.2751	0.0000	0.0432	0.0432
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	279.11	0.2034	0.0020	0.0863	0.0863
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	184.45	0.305	0.0000	0.0261	0.0261
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	279.11	0.2686	-0.0009	0.1359	0.1359
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	184.45	0.3345	-0.0001	0.0178	0.0178
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	279.11	0.3261	-0.0039	0.1505	0.1505
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	184.45	0.2795	0.0000	0.0443	0.0443
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	279.11	0.2114	0.0001	0.0769	0.0769
1.2D + 1.0Ev + 1.0Eh 330° Seismic	184.45	0.0814	0.0000	0.0122	0.0122
1.2D + 1.0Ev + 1.0Eh 330° Seismic	279.11	0.0958	0.0000	0.0359	0.0359
1.2D + 1.0Ev + 1.0Eh 300° Seismic	184.45	0.0888	0.0000	0.0118	0.0118
1.2D + 1.0Ev + 1.0Eh 300° Seismic	279.11	0.1041	0.0000	0.0361	0.0361
1.2D + 1.0Ev + 1.0Eh 240° Seismic	184.45	0.0899	0.0000	0.0124	0.0124
1.2D + 1.0Ev + 1.0Eh 240° Seismic	279.11	0.1059	0.0000	0.0381	0.0381
1.2D + 1.0Ev + 1.0Eh 210° Seismic	184.45	0.0814	0.0000	0.0122	0.0122
1.2D + 1.0Ev + 1.0Eh 210° Seismic	279.11	0.0958	0.0000	0.0359	0.0359
1.2D + 1.0Ev + 1.0Eh 180° Seismic	184.45	0.0888	0.0000	0.0118	0.0118
1.2D + 1.0Ev + 1.0Eh 180° Seismic	279.11	0.1041	0.0000	0.0361	0.0361
1.2D + 1.0Ev + 1.0Eh 120° Seismic	184.45	0.0899	0.0000	0.0124	0.0124
1.2D + 1.0Ev + 1.0Eh 120° Seismic	279.11	0.1059	0.0000	0.0381	0.0381
1.2D + 1.0Ev + 1.0Eh 90° Seismic	184.45	0.0814	0.0000	0.0121	0.0121
1.2D + 1.0Ev + 1.0Eh 90° Seismic	279.11	0.0958	0.0000	0.0359	0.0359
1.2D + 1.0Ev + 1.0Eh 60° Seismic	184.45	0.0888	0.0000	0.0118	0.0118
1.2D + 1.0Ev + 1.0Eh 60° Seismic	279.11	0.1041	0.0000	0.0361	0.0361
1.2D + 1.0Ev + 1.0Eh Normal Seismic	184.45	0.0899	0.0000	0.0124	0.0124
1.2D + 1.0Ev + 1.0Eh Normal Seismic	279.11	0.1059	0.0000	0.0381	0.0381
1.2D + 1.0Di + 1.0Wi 330° 29.24 mph Wind with 0" Radial Ice	184.45	0.1053	0.0000	0.0157	0.0157
1.2D + 1.0Di + 1.0Wi 330° 29.24 mph Wind with 0" Radial Ice	279.11	0.0982	0.0001	0.0152	0.0152
1.2D + 1.0Di + 1.0Wi 300° 29.24 mph Wind with 0" Radial Ice	184.45	0.1185	0.0000	0.0145	0.0145
1.2D + 1.0Di + 1.0Wi 300° 29.24 mph Wind with 0" Radial Ice	279.11	0.1112	0.0001	0.0181	0.0181
1.2D + 1.0Di + 1.0Wi 240° 29.24 mph Wind with 0" Radial Ice	184.45	0.118	0.0000	0.0165	0.0165
1.2D + 1.0Di + 1.0Wi 240° 29.24 mph Wind with 0" Radial Ice	279.11	0.1024	0.0001	0.0141	0.0141
1.2D + 1.0Di + 1.0Wi 210° 29.24 mph Wind with 0" Radial Ice	184.45	0.1058	0.0000	0.0156	0.0156
1.2D + 1.0Di + 1.0Wi 210° 29.24 mph Wind with 0" Radial Ice	279.11	0.0977	0.0000	0.0088	0.0088
1.2D + 1.0Di + 1.0Wi 180° 29.24 mph Wind with 0" Radial Ice	184.45	0.1178	0.0000	0.0140	0.014
1.2D + 1.0Di + 1.0Wi 180° 29.24 mph Wind with 0" Radial Ice	279.11	0.1087	0.0000	0.0067	0.0067
1.2D + 1.0Di + 1.0Wi 120° 29.24 mph Wind with 0" Radial Ice	184.45	0.1156	0.0000	0.0158	0.0158
1.2D + 1.0Di + 1.0Wi 120° 29.24 mph Wind with 0" Radial Ice	279.11	0.0978	-0.0001	0.0116	0.0116
1.2D + 1.0Di + 1.0Wi 90° 29.24 mph Wind with 0" Radial Ice	184.45	0.1038	0.0000	0.0150	0.015
1.2D + 1.0Di + 1.0Wi 90° 29.24 mph Wind with 0" Radial Ice	279.11	0.095	-0.0001	0.0148	0.0148
1.2D + 1.0Di + 1.0Wi 60° 29.24 mph Wind with 0" Radial Ice	184.45	0.116	0.0000	0.0137	0.0137
1.2D + 1.0Di + 1.0Wi 60° 29.24 mph Wind with 0" Radial Ice	279.11	0.1073	-0.0001	0.0141	0.0141
1.2D + 1.0Di + 1.0Wi Normal 29.24 mph Wind with 0" Radial Ice	184.45	0.1164	0.0000	0.0161	0.0161
1.2D + 1.0Di + 1.0Wi Normal 29.24 mph Wind with 0" Radial Ice	279.11	0.1004	0.0000	0.0098	0.0098
1.2D + 1.0W 330° 115.01 mph Wind with No Ice	184.45	2.2479	0.7185	0.2112	0.7446
1.2D + 1.0W 330° 115.01 mph Wind with No Ice	279.11	2.1356	1.0998	0.5735	1.2283
1.2D + 1.0W 300° 115.01 mph Wind with No Ice	184.45	1.4914	0.7167	0.0927	0.7221
1.2D + 1.0W 300° 115.01 mph Wind with No Ice	279.11	1.5428	1.1099	0.7016	1.313
1.2D + 1.0W 240° 115.01 mph Wind with No Ice	184.45	2.5949	-0.6429	0.2104	0.6764

ASSET: 370667, Lake City
CUSTOMER: VERIZON WIRELESS

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DEFLECTIONS AND ROTATIONS					
Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0W 240° 115.01 mph Wind with No Ice	279.11	2.4692	-1.0164	0.6627	1.2133
1.2D + 1.0W 210° 115.01 mph Wind with No Ice	184.45	2.2487	-0.5637	0.2136	0.6028
1.2D + 1.0W 210° 115.01 mph Wind with No Ice	279.11	2.1374	-0.9013	0.5701	1.0437
1.2D + 1.0W 180° 115.01 mph Wind with No Ice	184.45	1.4762	0.0005	0.0844	0.0844
1.2D + 1.0W 180° 115.01 mph Wind with No Ice	279.11	1.5014	-0.0010	0.6082	0.6082
1.2D + 1.0W 120° 115.01 mph Wind with No Ice	184.45	2.5785	0.7262	0.2021	0.7505
1.2D + 1.0W 120° 115.01 mph Wind with No Ice	279.11	2.4357	1.0921	0.6503	1.2711
1.2D + 1.0W 90° 115.01 mph Wind with No Ice	184.45	2.2347	0.0053	0.2031	0.2031
1.2D + 1.0W 90° 115.01 mph Wind with No Ice	279.11	2.1108	-0.0195	0.6767	0.677
1.2D + 1.0W 60° 115.01 mph Wind with No Ice	184.45	1.4723	-0.5947	0.0875	0.5994
1.2D + 1.0W 60° 115.01 mph Wind with No Ice	279.11	1.5081	-0.9687	0.6911	1.19
1.2D + 1.0W Normal 115.01 mph Wind with No Ice	184.45	2.5861	0.0071	0.2068	0.2069
1.2D + 1.0W Normal 115.01 mph Wind with No Ice	279.11	2.4497	0.0054	0.5878	0.5878

ASSET: 370667, Lake City
CUSTOMER: VERIZON WIRELESS

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DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*(-) Uplift and (+) Down		
					FX* (kip)	FY* (kip)	FZ* (kip)
1.2D + 1.0W Normal	0.58	0.00	0	1	-1.12	21.69	0.76
	0.58	0.00	120	1a	1.24	17.92	0.34
	0.58	0.00	240	1b	-0.12	17.88	-1.48
	120.00	0.00	0	A1	0.00	-0.37	0.54
	120.00	0.00	120	A1a	4.70	-5.34	-2.92
	120.00	0.00	240	A1b	-4.67	-5.28	-2.90
	180.00	0.00	0	A2	0.00	-1.86	0.76
	180.00	0.00	120	A2a	9.12	-15.06	-6.01
	180.00	0.00	240	A2b	-9.15	-15.10	-6.02
1.2D + 1.0W 60°	0.58	0.00	0	1	-1.22	19.91	0.65
	0.58	0.00	120	1a	1.00	19.92	0.20
	0.58	0.00	240	1b	-0.20	9.09	-1.10
	120.00	0.00	0	A1	-0.14	-1.12	1.42
	120.00	0.00	120	A1a	1.17	-1.15	-0.83
	120.00	0.00	240	A1b	-5.79	-6.18	-3.34
	180.00	0.00	0	A2	-0.53	-4.39	2.69
	180.00	0.00	120	A2a	2.05	-4.37	-1.80
	180.00	0.00	240	A2b	-11.00	-17.46	-6.35
1.2D + 1.0W 90°	0.58	0.00	0	1	-1.32	21.24	0.78
	0.58	0.00	120	1a	1.11	20.38	0.40
	0.58	0.00	240	1b	-0.20	12.86	-1.27
	120.00	0.00	0	A1	-0.19	-3.33	3.57
	120.00	0.00	120	A1a	0.61	-0.54	-0.43
	120.00	0.00	240	A1b	-5.81	-6.31	-3.24
	180.00	0.00	0	A2	-0.70	-10.04	7.05
	180.00	0.00	120	A2a	0.85	-2.35	-0.80
	180.00	0.00	240	A2b	-11.27	-17.54	-6.07
1.2D + 1.0W 120°	0.58	0.00	0	1	-1.25	17.88	0.83
	0.58	0.00	120	1a	1.23	21.69	0.62
	0.58	0.00	240	1b	-0.30	17.93	-1.28
	120.00	0.00	0	A1	-0.17	-5.28	5.50
	120.00	0.00	120	A1a	0.47	-0.37	-0.27
	120.00	0.00	240	A1b	-4.88	-5.34	-2.61
	180.00	0.00	0	A2	-0.64	-15.10	10.94
	180.00	0.00	120	A2a	0.66	-1.86	-0.38
	180.00	0.00	240	A2b	-9.76	-15.06	-4.89
1.2D + 1.0W 180°	0.58	0.00	0	1	-0.80	9.03	0.73
	0.58	0.00	120	1a	1.16	19.88	0.68
	0.58	0.00	240	1b	-0.36	19.85	-0.92
	120.00	0.00	0	A1	0.00	-6.17	6.68
	120.00	0.00	120	A1a	1.30	-1.13	-0.60
	120.00	0.00	240	A1b	-1.31	-1.14	-0.60
	180.00	0.00	0	A2	0.00	-17.27	12.58
	180.00	0.00	120	A2a	2.61	-4.41	-0.89
	180.00	0.00	240	A2b	-2.60	-4.39	-0.88
1.2D + 1.0W 210°	0.58	0.00	0	1	-0.93	12.86	0.82
	0.58	0.00	120	1a	1.31	21.24	0.69
	0.58	0.00	240	1b	-0.26	20.38	-1.11
	120.00	0.00	0	A1	0.10	-6.31	6.64
	120.00	0.00	120	A1a	3.18	-3.33	-1.62
	120.00	0.00	240	A1b	-0.68	-0.54	-0.32
	180.00	0.00	0	A2	0.38	-17.53	12.79
	180.00	0.00	120	A2a	6.45	-10.05	-2.92
	180.00	0.00	240	A2b	-1.12	-2.35	-0.33
1.2D + 1.0W 240°	0.58	0.00	0	1	-0.88	17.93	0.92
	0.58	0.00	120	1a	1.32	17.88	0.60
	0.58	0.00	240	1b	-0.13	21.69	-1.31
	120.00	0.00	0	A1	0.18	-5.34	5.53
	120.00	0.00	120	A1a	4.85	-5.28	-2.60

ASSET: 370667, Lake City
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14873543_C4_04

DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*(-) Uplift and (+) Down		
					FX* (kip)	FY* (kip)	FZ* (kip)
1.2D + 1.0W 300°	120.00	0.00	240	A1b	-0.47	-0.37	-0.27
	180.00	0.00	0	A2	0.64	-15.06	10.90
	180.00	0.00	120	A2a	9.79	-15.10	-4.92
	180.00	0.00	240	A2b	-0.66	-1.86	-0.38
	0.58	0.00	0	1	-0.58	19.93	0.79
	0.58	0.00	120	1a	1.02	9.09	0.29
	0.58	0.00	240	1b	-0.01	19.90	-1.32
	120.00	0.00	0	A1	0.14	-1.15	1.44
	120.00	0.00	120	A1a	5.79	-6.18	-3.34
	120.00	0.00	240	A1b	-1.16	-1.12	-0.83
	180.00	0.00	0	A2	0.54	-4.37	2.68
	180.00	0.00	120	A2a	11.00	-17.46	-6.36
	180.00	0.00	240	A2b	-2.06	-4.39	-1.81
	0.58	0.00	0	1	-0.84	20.39	0.77
	0.58	0.00	120	1a	1.18	12.86	0.40
1.2D + 1.0W 330°	0.58	0.00	240	1b	-0.06	21.24	-1.48
	120.00	0.00	0	A1	0.06	-0.54	0.74
	120.00	0.00	120	A1a	5.70	-6.31	-3.41
	120.00	0.00	240	A1b	-2.99	-3.33	-1.94
	180.00	0.00	0	A2	0.27	-2.35	1.13
	180.00	0.00	120	A2a	10.89	-17.54	-6.73
	180.00	0.00	240	A2b	-5.76	-10.05	-4.13
	0.58	0.00	0	1	-0.40	10.35	0.81
	0.58	0.00	120	1a	0.89	9.60	-0.09
	0.58	0.00	240	1b	-0.50	9.61	-0.76
	120.00	0.00	0	A1	0.00	-1.41	1.90
	120.00	0.00	120	A1a	1.98	-1.78	-1.15
	120.00	0.00	240	A1b	-1.98	-1.77	-1.15
	180.00	0.00	0	A2	0.00	-2.83	2.04
	180.00	0.00	120	A2a	2.32	-3.70	-1.38
1.2D + 1.0Di + 1.0Wi Normal	180.00	0.00	240	A2b	-2.32	-3.70	-1.38
	0.58	0.00	0	1	-0.42	10.10	0.81
	0.58	0.00	120	1a	0.90	10.08	-0.08
	0.58	0.00	240	1b	-0.51	9.34	-0.75
	120.00	0.00	0	A1	-0.01	-1.53	2.03
	120.00	0.00	120	A1a	1.75	-1.53	-1.02
	120.00	0.00	240	A1b	-2.09	-1.90	-1.21
	180.00	0.00	0	A2	-0.03	-3.11	2.25
	180.00	0.00	120	A2a	1.93	-3.11	-1.16
	180.00	0.00	240	A2b	-2.52	-3.98	-1.45
	0.58	0.00	0	1	-0.42	9.86	0.81
	0.58	0.00	120	1a	0.90	10.27	-0.07
	0.58	0.00	240	1b	-0.51	9.41	-0.74
	120.00	0.00	0	A1	-0.01	-1.65	2.16
	120.00	0.00	120	A1a	1.67	-1.44	-0.97
1.2D + 1.0Di + 1.0Wi 60°	120.00	0.00	240	A1b	-2.07	-1.86	-1.19
	180.00	0.00	0	A2	-0.04	-3.41	2.48
	180.00	0.00	120	A2a	1.80	-2.90	-1.06
	180.00	0.00	240	A2b	-2.48	-3.91	-1.41
	0.58	0.00	0	1	-0.41	9.61	0.81
	0.58	0.00	120	1a	0.90	10.35	-0.06
	0.58	0.00	240	1b	-0.52	9.60	-0.73
	120.00	0.00	0	A1	-0.01	-1.77	2.29
	120.00	0.00	120	A1a	1.65	-1.41	-0.95
	120.00	0.00	240	A1b	-1.99	-1.78	-1.14
	180.00	0.00	0	A2	-0.03	-3.70	2.70
	180.00	0.00	120	A2a	1.77	-2.83	-1.02
	180.00	0.00	240	A2b	-2.36	-3.70	-1.32
	0.58	0.00	0	1	-0.39	9.34	0.82
	0.58	0.00	120	1a	0.90	10.35	-0.06
1.2D + 1.0Di + 1.0Wi 90°	0.58	0.00	240	1b	-0.52	9.60	-0.73
	120.00	0.00	0	A1	-0.01	-1.77	2.29
	120.00	0.00	120	A1a	1.65	-1.41	-0.95
	120.00	0.00	240	A1b	-1.99	-1.78	-1.14
	180.00	0.00	0	A2	-0.03	-3.70	2.70
	180.00	0.00	120	A2a	1.77	-2.83	-1.02
	180.00	0.00	240	A2b	-2.36	-3.70	-1.32
	0.58	0.00	0	1	-0.39	9.34	0.82
	0.58	0.00	120	1a	0.90	10.35	-0.06
	0.58	0.00	240	1b	-0.52	9.60	-0.73
	120.00	0.00	0	A1	-0.01	-1.77	2.29
	120.00	0.00	120	A1a	1.65	-1.41	-0.95
	120.00	0.00	240	A1b	-1.99	-1.78	-1.14
	180.00	0.00	0	A2	-0.03	-3.70	2.70
	180.00	0.00	120	A2a	1.77	-2.83	-1.02
	180.00	0.00	240	A2b	-2.36	-3.70	-1.32
1.2D + 1.0Di + 1.0Wi 120°	0.58	0.00	0	1	-0.39	9.34	0.82
	0.58	0.00	120	1a	0.90	10.35	-0.06
	0.58	0.00	240	1b	-0.52	9.60	-0.73
	120.00	0.00	0	A1	-0.01	-1.77	2.29
	120.00	0.00	120	A1a	1.65	-1.41	-0.95
	120.00	0.00	240	A1b	-1.99	-1.78	-1.14
	180.00	0.00	0	A2	-0.03	-3.70	2.70
	180.00	0.00	120	A2a	1.77	-2.83	-1.02
	180.00	0.00	240	A2b	-2.36	-3.70	-1.32
	0.58	0.00	0	1	-0.39	9.34	0.82
	0.58	0.00	120	1a	0.90	10.35	-0.06
	0.58	0.00	240	1b	-0.52	9.60	-0.73
	120.00	0.00	0	A1	-0.01	-1.77	2.29
	120.00	0.00	120	A1a	1.65	-1.41	-0.95
	120.00	0.00	240	A1b	-1.99	-1.78	-1.14
1.2D + 1.0Di + 1.0Wi 180°	180.00	0.00	0	A2	-0.03	-3.70	2.70
	180.00	0.00	120	A2a	1.77	-2.83	-1.02
	180.00	0.00	240	A2b	-2.36	-3.70	-1.32
	0.58	0.00	0	1	-0.39	9.34	0.82
	0.58	0.00	120	1a	0.90	10.35	-0.06
	0.58	0.00	240	1b	-0.52	9.60	-0.73
	120.00	0.00	0	A1	-0.01	-1.77	2.29
	120.00	0.00	120	A1a	1.65	-1.41	-0.95
	120.00	0.00	240	A1b	-1.99	-1.78	-1.14
	180.00	0.00	0	A2	-0.03	-3.70	2.70
	180.00	0.00	120	A2a	1.77	-2.83	-1.02
	180.00	0.00	240	A2b	-2.36	-3.70	-1.32
	0.58	0.00	0	1	-0.39	9.34	0.82
	0.58	0.00	120	1a	0.90	10.35	-0.06
	0.58	0.00	240	1b	-0.52	9.60	-0.73

ASSET: 370667, Lake City
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14873543_C4_04

DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*(-) Uplift and (+) Down		
					FX* (kip)	FY* (kip)	FZ* (kip)
	0.58	0.00	120	1a	0.91	10.10	-0.05
	0.58	0.00	240	1b	-0.52	10.08	-0.73
	120.00	0.00	0	A1	0.00	-1.90	2.42
	120.00	0.00	120	A1a	1.76	-1.53	-1.01
	120.00	0.00	240	A1b	-1.76	-1.53	-1.01
	180.00	0.00	0	A2	0.00	-3.98	2.91
	180.00	0.00	120	A2a	1.97	-3.11	-1.10
	180.00	0.00	240	A2b	-1.97	-3.11	-1.10
	0.58	0.00	0	1	-0.37	9.41	0.82
	0.58	0.00	120	1a	0.91	9.86	-0.05
1.2D + 1.0Di + 1.0Wi 210°	0.58	0.00	240	1b	-0.51	10.27	-0.74
	120.00	0.00	0	A1	0.00	-1.86	2.38
	120.00	0.00	120	A1a	1.87	-1.65	-1.07
	120.00	0.00	240	A1b	-1.68	-1.44	-0.96
	180.00	0.00	0	A2	0.02	-3.91	2.86
	180.00	0.00	120	A2a	2.16	-3.41	-1.20
	180.00	0.00	240	A2b	-1.82	-2.90	-1.03
	0.58	0.00	0	1	-0.36	9.60	0.82
	0.58	0.00	120	1a	0.91	9.61	-0.06
	0.58	0.00	240	1b	-0.51	10.35	-0.74
1.2D + 1.0Di + 1.0Wi 240°	120.00	0.00	0	A1	0.01	-1.78	2.29
	120.00	0.00	120	A1a	1.99	-1.77	-1.14
	120.00	0.00	240	A1b	-1.65	-1.41	-0.95
	180.00	0.00	0	A2	0.03	-3.70	2.70
	180.00	0.00	120	A2a	2.35	-3.70	-1.32
	180.00	0.00	240	A2b	-1.77	-2.83	-1.02
	0.58	0.00	0	1	-0.37	10.08	0.82
	0.58	0.00	120	1a	0.90	9.34	-0.08
	0.58	0.00	240	1b	-0.50	10.10	-0.76
	120.00	0.00	0	A1	0.01	-1.53	2.03
1.2D + 1.0Di + 1.0Wi 300°	120.00	0.00	120	A1a	2.09	-1.90	-1.21
	120.00	0.00	240	A1b	-1.75	-1.53	-1.02
	180.00	0.00	0	A2	0.03	-3.11	2.25
	180.00	0.00	120	A2a	2.52	-3.98	-1.46
	180.00	0.00	240	A2b	-1.93	-3.11	-1.15
	0.58	0.00	0	1	-0.38	10.27	0.81
	0.58	0.00	120	1a	0.90	9.41	-0.08
	0.58	0.00	240	1b	-0.49	9.86	-0.76
	120.00	0.00	0	A1	0.00	-1.44	1.93
	120.00	0.00	120	A1a	2.06	-1.86	-1.20
1.2D + 1.0Di + 1.0Wi 330°	120.00	0.00	240	A1b	-1.86	-1.65	-1.09
	180.00	0.00	0	A2	0.02	-2.90	2.09
	180.00	0.00	120	A2a	2.46	-3.91	-1.44
	180.00	0.00	240	A2b	-2.12	-3.41	-1.27
	0.58	0.00	0	1	-0.36	9.37	0.44
	0.58	0.00	120	1a	0.56	9.40	0.09
	0.58	0.00	240	1b	-0.21	9.40	-0.53
	120.00	0.00	0	A1	0.00	-1.34	1.76
	120.00	0.00	120	A1a	1.61	-1.46	-0.93
	120.00	0.00	240	A1b	-1.61	-1.46	-0.93
1.2D + 1.0Ev + 1.0Eh Normal	180.00	0.00	0	A2	0.00	-2.80	2.06
	180.00	0.00	120	A2a	2.05	-3.26	-1.19
	180.00	0.00	240	A2b	-2.05	-3.26	-1.18
	0.58	0.00	0	1	-0.35	9.38	0.44
	0.58	0.00	120	1a	0.56	9.38	0.09
	0.58	0.00	240	1b	-0.21	9.40	-0.53
	120.00	0.00	0	A1	0.00	-1.38	1.80
	120.00	0.00	120	A1a	1.56	-1.38	-0.90
	120.00	0.00	240	A1b	-1.64	-1.50	-0.95

ASSET: 370667, Lake City
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14873543_C4_04

DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*(-) Uplift and (+) Down		
					FX* (kip)	FY* (kip)	FZ* (kip)
1.2D + 1.0Ev + 1.0Eh 90°	180.00	0.00	0	A2	0.00	-2.96	2.16
	180.00	0.00	120	A2a	1.87	-2.95	-1.08
	180.00	0.00	240	A2b	-2.14	-3.41	-1.24
	0.58	0.00	0	1	-0.36	9.39	0.44
	0.58	0.00	120	1a	0.56	9.38	0.09
	0.58	0.00	240	1b	-0.21	9.40	-0.53
	120.00	0.00	0	A1	0.00	-1.42	1.83
	120.00	0.00	120	A1a	1.53	-1.35	-0.89
	120.00	0.00	240	A1b	-1.64	-1.49	-0.94
	180.00	0.00	0	A2	0.00	-3.11	2.26
	180.00	0.00	120	A2a	1.80	-2.84	-1.04
	180.00	0.00	240	A2b	-2.12	-3.37	-1.22
1.2D + 1.0Ev + 1.0Eh 120°	0.58	0.00	0	1	-0.36	9.40	0.44
	0.58	0.00	120	1a	0.56	9.37	0.09
	0.58	0.00	240	1b	-0.21	9.40	-0.53
	120.00	0.00	0	A1	0.00	-1.46	1.86
	120.00	0.00	120	A1a	1.53	-1.34	-0.88
	120.00	0.00	240	A1b	-1.61	-1.46	-0.93
	180.00	0.00	0	A2	0.00	-3.26	2.37
	180.00	0.00	120	A2a	1.78	-2.80	-1.03
	180.00	0.00	240	A2b	-2.05	-3.26	-1.18
	0.58	0.00	0	1	-0.36	9.40	0.44
	0.58	0.00	120	1a	0.56	9.38	0.09
	0.58	0.00	240	1b	-0.21	9.38	-0.53
1.2D + 1.0Ev + 1.0Eh 180°	120.00	0.00	0	A1	0.00	-1.50	1.90
	120.00	0.00	120	A1a	1.56	-1.38	-0.90
	120.00	0.00	240	A1b	-1.56	-1.38	-0.90
	180.00	0.00	0	A2	0.00	-3.41	2.47
	180.00	0.00	120	A2a	1.87	-2.96	-1.08
	180.00	0.00	240	A2b	-1.87	-2.95	-1.08
	0.58	0.00	0	1	-0.36	9.40	0.44
	0.58	0.00	120	1a	0.56	9.39	0.09
	0.58	0.00	240	1b	-0.21	9.38	-0.53
	120.00	0.00	0	A1	0.00	-1.49	1.89
	120.00	0.00	120	A1a	1.58	-1.42	-0.92
	120.00	0.00	240	A1b	-1.54	-1.35	-0.89
1.2D + 1.0Ev + 1.0Eh 210°	180.00	0.00	0	A2	0.00	-3.37	2.45
	180.00	0.00	120	A2a	1.96	-3.11	-1.13
	180.00	0.00	240	A2b	-1.80	-2.84	-1.04
	0.58	0.00	0	1	-0.36	9.39	0.44
	0.58	0.00	120	1a	0.56	9.40	0.09
	0.58	0.00	240	1b	-0.21	9.37	-0.53
	120.00	0.00	0	A1	0.00	-1.46	1.86
	120.00	0.00	120	A1a	1.61	-1.46	-0.93
	120.00	0.00	240	A1b	-1.53	-1.34	-0.88
	180.00	0.00	0	A2	0.00	-3.26	2.37
	180.00	0.00	120	A2a	2.05	-3.26	-1.19
	180.00	0.00	240	A2b	-1.78	-2.80	-1.03
1.2D + 1.0Ev + 1.0Eh 240°	0.58	0.00	0	1	-0.36	9.38	0.44
	0.58	0.00	120	1a	0.56	9.40	0.09
	0.58	0.00	240	1b	-0.21	9.38	-0.53
	120.00	0.00	0	A1	0.00	-1.38	1.80
	120.00	0.00	120	A1a	1.64	-1.50	-0.95
	120.00	0.00	240	A1b	-1.56	-1.38	-0.90
	180.00	0.00	0	A2	0.00	-2.96	2.16
	180.00	0.00	120	A2a	2.14	-3.41	-1.24
	180.00	0.00	240	A2b	-1.87	-2.96	-1.08
	0.58	0.00	0	1	-0.36	9.38	0.44
	0.58	0.00	120	1a	0.56	9.40	0.09
	0.58	0.00	240	1b	-0.21	9.38	-0.53
1.2D + 1.0Ev + 1.0Eh 300°	120.00	0.00	0	A1	0.00	-1.38	1.80
	120.00	0.00	120	A1a	1.64	-1.50	-0.95
	120.00	0.00	240	A1b	-1.56	-1.38	-0.90
	180.00	0.00	0	A2	0.00	-2.96	2.16
	180.00	0.00	120	A2a	2.14	-3.41	-1.24
	180.00	0.00	240	A2b	-1.87	-2.96	-1.08
	0.58	0.00	0	1	-0.36	9.38	0.44
	0.58	0.00	120	1a	0.56	9.40	0.09
	0.58	0.00	240	1b	-0.21	9.38	-0.53
	120.00	0.00	0	A1	0.00	-1.38	1.80
	120.00	0.00	120	A1a	1.64	-1.50	-0.95
	120.00	0.00	240	A1b	-1.56	-1.38	-0.90
1.2D + 1.0Ev + 1.0Eh 330°	180.00	0.00	0	A2	0.00	-2.96	2.16
	180.00	0.00	120	A2a	2.14	-3.41	-1.24
	180.00	0.00	240	A2b	-1.87	-2.96	-1.08
	0.58	0.00	0	1	-0.36	9.38	0.44
	0.58	0.00	120	1a	0.56	9.40	0.09
	0.58	0.00	240	1b	-0.21	9.38	-0.53
	120.00	0.00	0	A1	0.00	-1.38	1.80
	120.00	0.00	120	A1a	1.64	-1.50	-0.95
	120.00	0.00	240	A1b	-1.56	-1.38	-0.90
	180.00	0.00	0	A2	0.00	-2.96	2.16
	180.00	0.00	120	A2a	2.14	-3.41	-1.24
	180.00	0.00	240	A2b	-1.87	-2.96	-1.08

ASSET: 370667, Lake City
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14873543_C4_04

DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*(-) Uplift and (+) Down		
					FX* (kip)	FY* (kip)	FZ* (kip)
1.0D + 1.0W Service Normal	0.58	0.00	240	1b	-0.21	9.39	-0.53
	120.00	0.00	0	A1	0.00	-1.35	1.77
	120.00	0.00	120	A1a	1.64	-1.49	-0.94
	120.00	0.00	240	A1b	-1.58	-1.42	-0.91
	180.00	0.00	0	A2	0.00	-2.84	2.08
	180.00	0.00	120	A2a	2.12	-3.37	-1.22
	180.00	0.00	240	A2b	-1.96	-3.11	-1.13
	0.58	0.00	0	1	-0.38	10.89	0.42
	0.58	0.00	120	1a	0.53	8.17	0.02
	0.58	0.00	240	1b	-0.14	8.24	-0.58
	120.00	0.00	0	A1	0.00	-0.54	0.91
	120.00	0.00	120	A1a	2.04	-1.93	-1.22
	120.00	0.00	240	A1b	-2.04	-1.92	-1.22
	180.00	0.00	0	A2	0.00	-1.24	0.78
	180.00	0.00	120	A2a	2.89	-4.72	-1.84
	180.00	0.00	240	A2b	-2.90	-4.73	-1.84
1.0D + 1.0W Service 60°	0.58	0.00	0	1	-0.50	10.46	0.42
	0.58	0.00	120	1a	0.56	10.39	0.08
	0.58	0.00	240	1b	-0.19	7.63	-0.57
	120.00	0.00	0	A1	-0.04	-1.08	1.45
	120.00	0.00	120	A1a	1.24	-1.08	-0.76
	120.00	0.00	240	A1b	-2.52	-2.46	-1.45
	180.00	0.00	0	A2	-0.14	-2.76	1.90
	180.00	0.00	120	A2a	1.57	-2.76	-1.07
	180.00	0.00	240	A2b	-3.91	-6.19	-2.25
	0.58	0.00	0	1	-0.50	9.52	0.41
	0.58	0.00	120	1a	0.56	10.82	0.12
	0.58	0.00	240	1b	-0.20	7.75	-0.54
	120.00	0.00	0	A1	-0.05	-1.52	1.92
	120.00	0.00	120	A1a	0.93	-0.74	-0.56
	120.00	0.00	240	A1b	-2.41	-2.32	-1.37
	180.00	0.00	0	A2	-0.17	-3.78	2.69
1.0D + 1.0W Service 90°	180.00	0.00	120	A2a	0.98	-1.79	-0.65
	180.00	0.00	240	A2b	-3.67	-5.76	-2.03
	0.58	0.00	0	1	-0.45	8.24	0.41
	0.58	0.00	120	1a	0.56	10.89	0.14
	0.58	0.00	240	1b	-0.23	8.17	-0.48
	120.00	0.00	0	A1	-0.04	-1.92	2.37
	120.00	0.00	120	A1a	0.78	-0.54	-0.45
	120.00	0.00	240	A1b	-2.08	-1.93	-1.16
	180.00	0.00	0	A2	-0.14	-4.72	3.43
	180.00	0.00	120	A2a	0.68	-1.24	-0.39
	180.00	0.00	240	A2b	-3.04	-4.72	-1.59
	0.58	0.00	0	1	-0.37	7.63	0.45
	0.58	0.00	120	1a	0.60	10.46	0.20
	0.58	0.00	240	1b	-0.23	10.40	-0.51
	120.00	0.00	0	A1	0.00	-2.46	2.91
1.0D + 1.0W Service 120°	120.00	0.00	120	A1a	1.27	-1.07	-0.69
	120.00	0.00	240	A1b	-1.27	-1.08	-0.69
	180.00	0.00	0	A2	0.00	-6.21	4.52
	180.00	0.00	120	A2a	1.71	-2.76	-0.82
	180.00	0.00	240	A2b	-1.71	-2.75	-0.82
	0.58	0.00	0	1	-0.32	7.75	0.45
	0.58	0.00	120	1a	0.60	9.52	0.19
	0.58	0.00	240	1b	-0.21	10.82	-0.52
	120.00	0.00	0	A1	0.02	-2.32	2.77
	120.00	0.00	120	A1a	1.69	-1.52	-0.92
	120.00	0.00	240	A1b	-0.95	-0.74	-0.53
	180.00	0.00	0	A2	0.08	-5.77	4.21
	180.00	0.00	120	A2a	1.71	-2.76	-0.82
	180.00	0.00	240	A2b	-1.71	-2.75	-0.82
	0.58	0.00	0	1	-0.32	7.75	0.45
	0.58	0.00	120	1a	0.60	9.52	0.19
	0.58	0.00	240	1b	-0.21	10.82	-0.52
1.0D + 1.0W Service 180°	120.00	0.00	0	A1	0.02	-2.32	2.77
	120.00	0.00	120	A1a	1.69	-1.52	-0.92
	120.00	0.00	240	A1b	-0.95	-0.74	-0.53
	180.00	0.00	0	A2	0.08	-5.77	4.21

ASSET: 370667, Lake City
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14873543_C4_04

DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*(-) Uplift and (+) Down		
					FX* (kip)	FY* (kip)	FZ* (kip)
1.0D + 1.0W Service 240°	180.00	0.00	120	A2a	2.41	-3.78	-1.20
	180.00	0.00	240	A2b	-1.05	-1.77	-0.52
	0.58	0.00	0	1	-0.25	8.17	0.45
	0.58	0.00	120	1a	0.57	8.24	0.14
	0.58	0.00	240	1b	-0.19	10.89	-0.52
	120.00	0.00	0	A1	0.04	-1.93	2.38
	120.00	0.00	120	A1a	2.07	-1.92	-1.15
	120.00	0.00	240	A1b	-0.78	-0.54	-0.45
	180.00	0.00	0	A2	0.14	-4.72	3.43
	180.00	0.00	120	A2a	3.04	-4.73	-1.59
	180.00	0.00	240	A2b	-0.67	-1.23	-0.39
	0.58	0.00	0	1	-0.30	10.40	0.46
1.0D + 1.0W Service 300°	0.58	0.00	120	1a	0.57	7.63	0.08
	0.58	0.00	240	1b	-0.14	10.46	-0.61
	120.00	0.00	0	A1	0.04	-1.08	1.45
	120.00	0.00	120	A1a	2.52	-2.46	-1.46
	120.00	0.00	240	A1b	-1.24	-1.07	-0.75
	180.00	0.00	0	A2	0.14	-2.75	1.89
	180.00	0.00	120	A2a	3.92	-6.21	-2.26
	180.00	0.00	240	A2b	-1.57	-2.76	-1.07
	0.58	0.00	0	1	-0.35	10.82	0.44
	0.58	0.00	120	1a	0.55	7.74	0.06
	0.58	0.00	240	1b	-0.13	9.52	-0.61
	120.00	0.00	0	A1	0.02	-0.74	1.09
1.0D + 1.0W Service 330°	120.00	0.00	120	A1a	2.39	-2.32	-1.40
	120.00	0.00	240	A1b	-1.64	-1.51	-1.00
	180.00	0.00	0	A2	0.07	-1.78	1.17
	180.00	0.00	120	A2a	3.59	-5.76	-2.16
	180.00	0.00	240	A2b	-2.24	-3.78	-1.49
	0.58	0.00	0	1	-0.36	9.37	0.44
	0.58	0.00	120	1a	0.56	9.41	0.09
	0.58	0.00	240	1b	-0.21	9.41	-0.53
	120.00	0.00	0	A1	0.00	-1.30	1.73
	120.00	0.00	120	A1a	1.63	-1.48	-0.94
	120.00	0.00	240	A1b	-1.63	-1.48	-0.94
	180.00	0.00	0	A2	0.00	-2.66	1.96
1.2D + 1.0Ev + 1.5Eh Normal	180.00	0.00	120	A2a	2.10	-3.34	-1.21
	180.00	0.00	240	A2b	-2.10	-3.35	-1.21
	0.58	0.00	0	1	-0.36	9.39	0.44
	0.58	0.00	120	1a	0.56	9.38	0.09
	0.58	0.00	240	1b	-0.21	9.41	-0.53
	120.00	0.00	0	A1	0.00	-1.36	1.78
	120.00	0.00	120	A1a	1.54	-1.36	-0.89
	120.00	0.00	240	A1b	-1.67	-1.54	-0.97
	180.00	0.00	0	A2	0.00	-2.89	2.11
	180.00	0.00	120	A2a	1.83	-2.88	-1.06
	180.00	0.00	240	A2b	-2.24	-3.57	-1.29
	0.58	0.00	0	1	-0.36	9.40	0.44
1.2D + 1.0Ev + 1.5Eh 60°	0.58	0.00	120	1a	0.56	9.38	0.09
	0.58	0.00	240	1b	-0.21	9.41	-0.53
	120.00	0.00	0	A1	0.00	-1.42	1.83
	120.00	0.00	120	A1a	1.51	-1.32	-0.87
	120.00	0.00	240	A1b	-1.66	-1.53	-0.96
	180.00	0.00	0	A2	0.00	-3.11	2.27
	180.00	0.00	120	A2a	1.73	-2.72	-1.00
	180.00	0.00	240	A2b	-2.20	-3.51	-1.27
	0.58	0.00	0	1	-0.36	9.41	0.44
	0.58	0.00	120	1a	0.56	9.37	0.09
	0.58	0.00	240	1b	-0.21	9.41	-0.53
	120.00	0.00	0	A1	0.00	-1.42	1.83
1.2D + 1.0Ev + 1.5Eh 90°	120.00	0.00	120	A1a	1.51	-1.32	-0.87
	120.00	0.00	240	A1b	-1.66	-1.53	-0.96
	180.00	0.00	0	A2	0.00	-3.11	2.27
1.2D + 1.0Ev + 1.5Eh 120°	180.00	0.00	120	A2a	1.73	-2.72	-1.00
	180.00	0.00	240	A2b	-2.20	-3.51	-1.27
	0.58	0.00	0	1	-0.36	9.41	0.44
1.2D + 1.0Ev + 1.5Eh 150°	0.58	0.00	120	1a	0.56	9.37	0.09
	0.58	0.00	240	1b	-0.21	9.41	-0.53
	120.00	0.00	0	A1	0.00	-1.42	1.83

ASSET: 370667, Lake City
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14873543_C4_04

DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*(-) Uplift and (+) Down		
					FX* (kip)	FY* (kip)	FZ* (kip)
1.2D + 1.0Ev + 1.5Eh 180°	120.00	0.00	0	A1	0.00	-1.48	1.88
	120.00	0.00	120	A1a	1.50	-1.30	-0.87
	120.00	0.00	240	A1b	-1.63	-1.48	-0.94
	180.00	0.00	0	A2	0.00	-3.35	2.43
	180.00	0.00	120	A2a	1.69	-2.66	-0.98
	180.00	0.00	240	A2b	-2.10	-3.34	-1.21
	0.58	0.00	0	1	-0.36	9.41	0.44
	0.58	0.00	120	1a	0.56	9.39	0.09
	0.58	0.00	240	1b	-0.21	9.38	-0.53
	120.00	0.00	0	A1	0.00	-1.54	1.93
	120.00	0.00	120	A1a	1.54	-1.36	-0.89
	120.00	0.00	240	A1b	-1.54	-1.36	-0.89
1.2D + 1.0Ev + 1.5Eh 210°	180.00	0.00	0	A2	0.00	-3.57	2.58
	180.00	0.00	120	A2a	1.83	-2.89	-1.06
	180.00	0.00	240	A2b	-1.83	-2.88	-1.05
	0.58	0.00	0	1	-0.36	9.41	0.44
	0.58	0.00	120	1a	0.56	9.40	0.09
	0.58	0.00	240	1b	-0.21	9.38	-0.53
	120.00	0.00	0	A1	0.00	-1.53	1.92
	120.00	0.00	120	A1a	1.58	-1.42	-0.92
	120.00	0.00	240	A1b	-1.51	-1.32	-0.87
	180.00	0.00	0	A2	0.00	-3.51	2.54
	180.00	0.00	120	A2a	1.96	-3.11	-1.13
	180.00	0.00	240	A2b	-1.73	-2.72	-1.00
1.2D + 1.0Ev + 1.5Eh 240°	0.58	0.00	0	1	-0.36	9.41	0.44
	0.58	0.00	120	1a	0.56	9.41	0.09
	0.58	0.00	240	1b	-0.21	9.37	-0.53
	120.00	0.00	0	A1	0.00	-1.48	1.88
	120.00	0.00	120	A1a	1.63	-1.48	-0.94
	120.00	0.00	240	A1b	-1.50	-1.30	-0.86
	180.00	0.00	0	A2	0.00	-3.34	2.43
	180.00	0.00	120	A2a	2.10	-3.35	-1.21
	180.00	0.00	240	A2b	-1.69	-2.66	-0.98
	0.58	0.00	0	1	-0.36	9.38	0.44
	0.58	0.00	120	1a	0.56	9.41	0.09
	0.58	0.00	240	1b	-0.21	9.39	-0.53
1.2D + 1.0Ev + 1.5Eh 300°	120.00	0.00	0	A1	0.00	-1.36	1.78
	120.00	0.00	120	A1a	1.67	-1.54	-0.97
	120.00	0.00	240	A1b	-1.54	-1.36	-0.89
	180.00	0.00	0	A2	0.00	-2.88	2.11
	180.00	0.00	120	A2a	2.24	-3.57	-1.29
	180.00	0.00	240	A2b	-1.83	-2.89	-1.06
	0.58	0.00	0	1	-0.36	9.38	0.44
	0.58	0.00	120	1a	0.56	9.41	0.09
	0.58	0.00	240	1b	-0.21	9.40	-0.53
	120.00	0.00	0	A1	0.00	-1.32	1.74
	120.00	0.00	120	A1a	1.66	-1.53	-0.96
	120.00	0.00	240	A1b	-1.59	-1.42	-0.91
1.2D + 1.0Ev + 1.5Eh 330°	180.00	0.00	0	A2	0.00	-2.72	2.00
	180.00	0.00	120	A2a	2.20	-3.51	-1.27
	180.00	0.00	240	A2b	-1.96	-3.11	-1.13

ASSET: 370667, Lake City
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14873543_C4_04

MAXIMUM GUY ANCHOR REACTIONS

Radius (ft)	Drop (ft)	Azimuth (deg)	Uplift (kip)	Shear (kip)
120.00	0.00	0	6.31	6.68
120.00	0.00	120	6.31	6.69
120.00	0.00	240	6.31	6.69
180.00	0.00	0	17.53	12.80
180.00	0.00	120	17.54	12.80
180.00	0.00	240	17.54	12.80

MAXIMUM REACTIONS SUMMARY

<u>Individual</u>	<u>Individual w/ Overstrength</u>	<u>Global (DL+WL+IL)</u>	<u>Global (DL+WL)</u>
Max Uplift: 17.54	17.54	Moment Ice: 0.43 (kip-ft)	Moment: 6.26 (kip-ft)
Max Down:		Total Down Ice: 29.52 (kip)	Total Down: 48.76 (kip)
Max Shear:		Total Shear Ice: 0.04 (kip)	Total Shear: 0.48 (kip)

1.2D + 1.0W Normal

MAXIMUM GUY ANCHOR REACTIONS WITH OVERSTRENGTH

Radius (ft)	Drop (ft)	Azimuth (deg)	Uplift (kip)	Shear (kip)
120.00	0.00	0	6.31	6.68
120.00	0.00	120	6.31	6.69
120.00	0.00	240	6.31	6.69
180.00	0.00	0	17.53	12.80
180.00	0.00	120	17.54	12.80
180.00	0.00	240	17.54	12.80

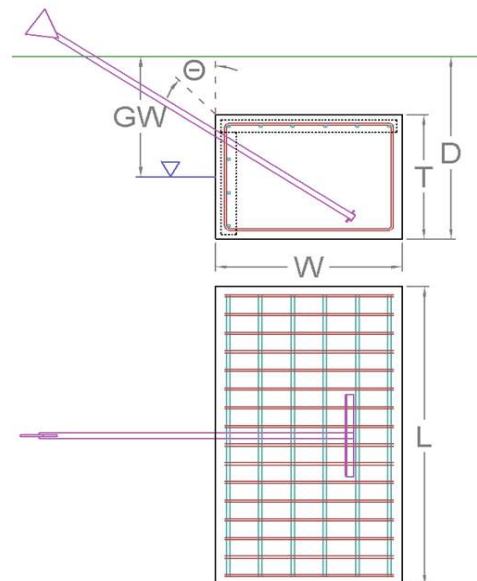
GUY ANCHOR BLOCK FOUNDATION ANALYSIS (NODE A2 @ r = 180 ft)

APPLIED REACTIONS

Uplift (k)	Shear (k)
17.53	12.80

FOUNDATION PARAMETERS

Base Depth:	D	8	ft
Block Width:	W	3	ft
Block Length:	L	5	ft
Block Thickness:	T	1.5	ft
Anchor Rod Quantity & Shape:	(1) Solid Rod		
Anchor Rod Area (gross/net):	0.442 // 0.442		in ²
Anchor Rod Strength (fy/fu):	67 // 80		ksi



SOIL PARAMETERS

Water Table Depth [BGL]:	GW	-	ft
Soil Unit Weight:		127	pcf
Friction Angle:		0	°
Cohesion:		3,500	psf
Ultimate Skin Friction		1,280	psf
Coefficient of Shear Friction:		0.3	
Uplift Pullout Angle:	theta	30	°
Uplift at ____ of Anchor:		Top	

SOIL STRENGTH ANALYSIS

Uplift Strength Reduction Factor, Φ_u	Shear Strength Reduction Factor, Φ_v	Dead Load Factor
0.75	0.75	0.9

SOIL UPLIFT ANALYSIS

Uplift Resistance from Skin Friction and Soil Shear (k)	Additional Uplift Resistance (k)	Uplift Capacity, ΦT_n (k)	Soil Uplift Usage, $T_u / \Phi T_n$
186.90	0	92.25	19.0%



SOIL SHEAR ANALYSIS

Skin Friction Resistance (k)	Normal Force Resistance (k)	Passive Pressure (psf)	Passive Pressure Resistance (k)	Additional Shear Resistance (k)	Shear Capacity, ΦV_n (k)	Soil Shear Usage, $V_u / \Phi V_n$
6.79	0.00	7,920.75	59.41	0	49.65	25.8%



ANCHOR ROD STRENGTH ANALYSIS

Yield Strength Reduction Factor, Φ_y	Tensile Strength Reduction Factor, Φ_t	Resultant Tensile Load, T_u (k)	Tensile Capacity, ΦT_n (k-ft)	Anchor Rod Tensile Usage, $T_u / \Phi T_n$
0.8	0.65	21.7	22.98	94.5%



GUY ANCHOR BLOCK FOUNDATION ANALYSIS (NODE A1a @ r = 120 ft)

APPLIED REACTIONS

Uplift (k)

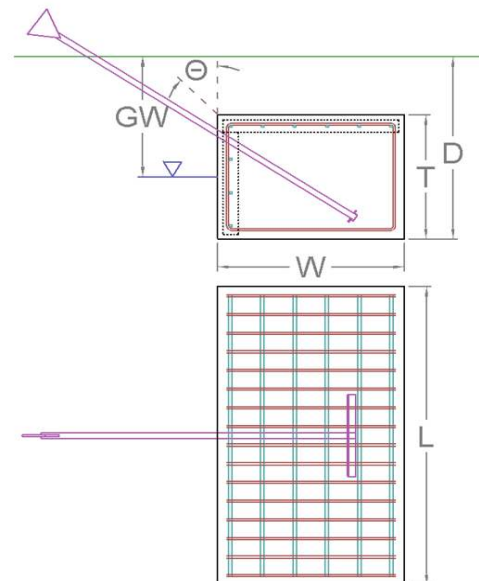
6.31

Shear (k)

6.69

FOUNDATION PARAMETERS

Base Depth:	D	4	ft
Block Width:	W	4	ft
Block Length:	L	6	ft
Block Thickness:	T	1.5	ft
Anchor Rod Quantity & Shape:	(1) Solid Rod		
Anchor Rod Area (gross/net):	0.307 // 0.307		
Anchor Rod Strength (fy/fu):	40 // 58		



SOIL PARAMETERS

Water Table Depth [BGL]:	GW	-	ft
Soil Unit Weight:		127	pcf
Friction Angle:		0	°
Cohesion:		2,000	psf
Ultimate Skin Friction		980	psf
Coefficient of Shear Friction:		0.3	
Uplift Pullout Angle:	theta	30	°
Uplift at ____ of Anchor:		Top	

SOIL STRENGTH ANALYSIS

Uplift Strength Reduction Factor, Φ_u

0.75

Shear Strength Reduction Factor, Φ_v

0.75

Dead Load Factor

0.9

SOIL UPLIFT ANALYSIS

Uplift Resistance from Skin Friction and Soil Shear (k)

30.22

Additional Uplift Resistance (k)

0

Uplift Capacity, ΦT_n (k)

25.20

Soil Uplift Usage, $T_u / \Phi T_n$

25.0%



SOIL SHEAR ANALYSIS

Skin Friction Resistance (k)

8.55

Normal Force Resistance (k)

1.62

Passive Pressure (psf)

4,412.75

Passive Pressure Resistance (k)

39.71

Additional Shear Resistance (k)

0

Shear Capacity, ΦV_n (k)

37.42

Soil Shear Usage, $V_u / \Phi V_n$

17.9%



ANCHOR ROD STRENGTH ANALYSIS

Yield Strength Reduction Factor, Φ_y

0.8

Tensile Strength Reduction Factor, Φ_t

0.65

Resultant Tensile Load, T_u (k)

9.2

Tensile Capacity, ΦT_n (k-ft)

9.82

Anchor Rod Tensile Usage, $T_u / \Phi T_n$

93.6%



GUY ANCHOR BLOCK FOUNDATION ANALYSIS (NODE A1b @ r = 120 ft)

APPLIED REACTIONS

Uplift (k)

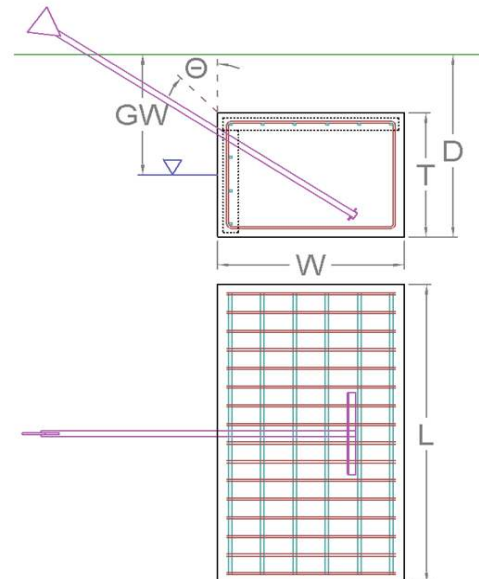
6.31

Shear (k)

6.69

FOUNDATION PARAMETERS

Base Depth:	D	4	ft
Block Width:	W	4	ft
Block Length:	L	6	ft
Block Thickness:	T	1.5	ft
Anchor Rod Quantity & Shape:	(1) Solid Rod		
Anchor Rod Area (gross/net):	0.307 // 0.307		
Anchor Rod Strength (fy/fu):	40 // 58		



SOIL PARAMETERS

Water Table Depth [BGL]:	GW	-	ft
Soil Unit Weight:		127	pcf
Friction Angle:		0	°
Cohesion:		2,000	psf
Ultimate Skin Friction		980	psf
Coefficient of Shear Friction:		0.3	
Uplift Pullout Angle:	theta	30	°
Uplift at ____ of Anchor:		Top	

SOIL STRENGTH ANALYSIS

Uplift Strength Reduction Factor, Φ_u

0.75

Shear Strength Reduction Factor, Φ_v

0.75

Dead Load Factor

0.9

SOIL UPLIFT ANALYSIS

Uplift Resistance from Skin Friction and Soil Shear (k)

30.22

Additional Uplift Resistance (k)

0

Uplift Capacity, ΦT_n (k)

25.20

Soil Uplift Usage, $T_u / \Phi T_n$

25.0%



SOIL SHEAR ANALYSIS

Skin Friction Resistance (k)

8.55

Normal Force Resistance (k)

1.62

Passive Pressure (psf)

4,412.75

Passive Pressure Resistance (k)

39.71

Additional Shear Resistance (k)

0

Shear Capacity, ΦV_n (k)

37.42

Soil Shear Usage, $V_u / \Phi V_n$

17.9%



ANCHOR ROD STRENGTH ANALYSIS

Yield Strength Reduction Factor, Φ_y

0.8

Tensile Strength Reduction Factor, Φ_t

0.65

Resultant Tensile Load, T_u (k)

9.2

Tensile Capacity, ΦT_n (k-ft)

9.82

Anchor Rod Tensile Usage, $T_u / \Phi T_n$

93.6%



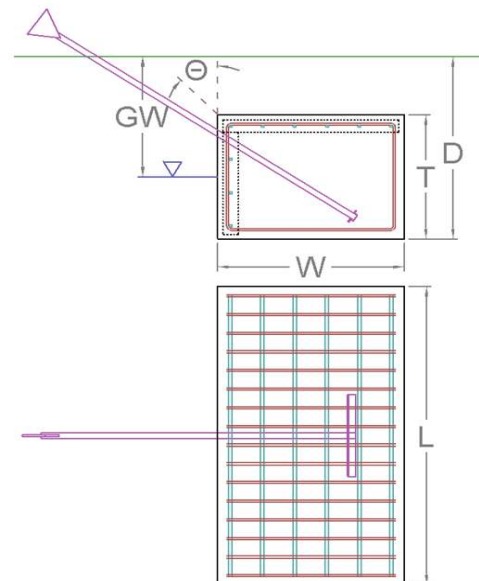
GUY ANCHOR BLOCK FOUNDATION ANALYSIS (NODE A2a @ r = 180 ft)

APPLIED REACTIONS

Uplift (k)	Shear (k)
17.54	12.80

FOUNDATION PARAMETERS

Base Depth:	D	8	ft
Block Width:	W	3	ft
Block Length:	L	5	ft
Block Thickness:	T	1.5	ft
Anchor Rod Quantity & Shape:	(1) Solid Rod		
Anchor Rod Area (gross/net):	0.442 // 0.442		
Anchor Rod Strength (fy/fu):	67 // 80		



SOIL PARAMETERS

Water Table Depth [BGL]:	GW	-	ft
Soil Unit Weight:		127	pcf
Friction Angle:		0	°
Cohesion:		3,500	psf
Ultimate Skin Friction		1,280	psf
Coefficient of Shear Friction:		0.3	
Uplift Pullout Angle:	θ	30	°
Uplift at ____ of Anchor:		Top	

SOIL STRENGTH ANALYSIS

Uplift Strength Reduction Factor, Φ_u	Shear Strength Reduction Factor, Φ_v	Dead Load Factor
0.75	0.75	0.9

SOIL UPLIFT ANALYSIS

Uplift Resistance from Skin Friction and Soil Shear (k)	Additional Uplift Resistance (k)	Uplift Capacity, ΦT_n (k)	Soil Uplift Usage, $T_u / \Phi T_n$	
186.91	0	92.25	19.0%	✓

SOIL SHEAR ANALYSIS

Skin Friction Resistance (k)	Normal Force Resistance (k)	Passive Pressure (psf)	Passive Pressure Resistance (k)	Additional Shear Resistance (k)	Shear Capacity, ΦV_n (k)	Soil Shear Usage, $V_u / \Phi V_n$	
6.79	0.00	7,920.75	59.41	0	49.65	25.8%	✓

ANCHOR ROD STRENGTH ANALYSIS

Yield Strength Reduction Factor, Φ_y	Tensile Strength Reduction Factor, Φ_t	Resultant Tensile Load, T_u (k)	Tensile Capacity, ΦT_n (k-ft)	Anchor Rod Tensile Usage, $T_u / \Phi T_n$	
0.8	0.65	21.7	22.98	94.5%	✓

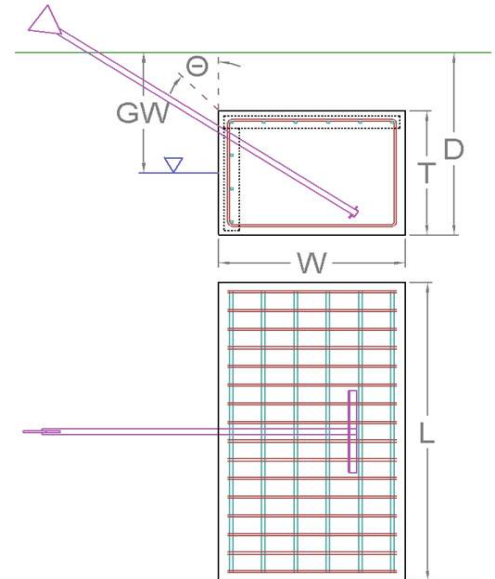
GUY ANCHOR BLOCK FOUNDATION ANALYSIS (NODE A2b @ r = 180 ft)

APPLIED REACTIONS

Uplift (k)	Shear (k)
17.54	12.80

FOUNDATION PARAMETERS

Base Depth:	D	8	ft
Block Width:	W	3	ft
Block Length:	L	5	ft
Block Thickness:	T	1.5	ft
Anchor Rod Quantity & Shape:	(1) Solid Rod		
Anchor Rod Area (gross/net):	0.442 // 0.442		
Anchor Rod Strength (fy/fu):	67 // 80		



SOIL PARAMETERS

Water Table Depth [BGL]:	GW	-	ft
Soil Unit Weight:		127	pcf
Friction Angle:		0	°
Cohesion:		3,500	psf
Ultimate Skin Friction		1,280	psf
Coefficient of Shear Friction:		0.3	
Uplift Pullout Angle:	theta	30	°
Uplift at ____ of Anchor:		Top	

SOIL STRENGTH ANALYSIS

Uplift Strength Reduction Factor, Φ_u	Shear Strength Reduction Factor, Φ_v	Dead Load Factor
0.75	0.75	0.9

SOIL UPLIFT ANALYSIS

Uplift Resistance from Skin Friction and Soil Shear (k)	Additional Uplift Resistance (k)	Uplift Capacity, ΦT_n (k)	Soil Uplift Usage, $T_u / \Phi T_n$	
186.91	0	92.25	19.0%	✓

SOIL SHEAR ANALYSIS

Skin Friction Resistance (k)	Normal Force Resistance (k)	Passive Pressure (psf)	Passive Pressure Resistance (k)	Additional Shear Resistance (k)	Shear Capacity, ΦV_n (k)	Soil Shear Usage, $V_u / \Phi V_n$	
6.79	0.00	7,920.75	59.41	0	49.65	25.8%	✓

ANCHOR ROD STRENGTH ANALYSIS

Yield Strength Reduction Factor, Φ_y	Tensile Strength Reduction Factor, Φ_t	Resultant Tensile Load, T_u (k)	Tensile Capacity, ΦT_n (k-ft)	Anchor Rod Tensile Usage, $T_u / \Phi T_n$	
0.8	0.65	21.7	22.98	94.5%	✓

GUY ANCHOR BLOCK FOUNDATION ANALYSIS (NODE A1 @ r = 120 ft)

APPLIED REACTIONS

Uplift (k)

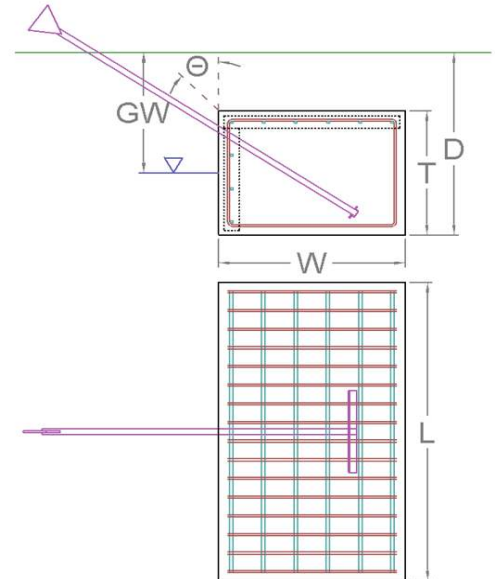
6.31

Shear (k)

6.68

FOUNDATION PARAMETERS

Base Depth:	D	4	ft
Block Width:	W	4	ft
Block Length:	L	6	ft
Block Thickness:	T	1.5	ft
Anchor Rod Quantity & Shape:	(1) Solid Rod		
Anchor Rod Area (gross/net):	0.307 // 0.307		
Anchor Rod Strength (fy/fu):	40 // 58		



SOIL PARAMETERS

Water Table Depth [BGL]:	GW	-	ft
Soil Unit Weight:		127	pcf
Friction Angle:		0	°
Cohesion:		2,000	psf
Ultimate Skin Friction		980	psf
Coefficient of Shear Friction:		0.3	
Uplift Pullout Angle:	theta	30	°
Uplift at ____ of Anchor:		Top	

SOIL STRENGTH ANALYSIS

Uplift Strength Reduction Factor, Φ_u

0.75

Shear Strength Reduction Factor, Φ_v

0.75

Dead Load Factor

0.9

SOIL UPLIFT ANALYSIS

Uplift Resistance from Skin Friction and Soil Shear (k)

30.23

Additional Uplift Resistance (k)

0

Uplift Capacity, ΦT_n (k)

25.20

Soil Uplift Usage, $T_u / \Phi T_n$

25.0%



SOIL SHEAR ANALYSIS

Skin Friction Resistance (k)

8.55

Normal Force Resistance (k)

1.62

Passive Pressure (psf)

4,412.75

Passive Pressure Resistance (k)

39.71

Additional Shear Resistance (k)

0

Shear Capacity, ΦV_n (k)

37.41

Soil Shear Usage, $V_u / \Phi V_n$

17.9%



ANCHOR ROD STRENGTH ANALYSIS

Yield Strength Reduction Factor, Φ_y

0.8

Tensile Strength Reduction Factor, Φ_t

0.65

Resultant Tensile Load, T_u (k)

9.2

Tensile Capacity, ΦT_n (k-ft)

9.82

Anchor Rod Tensile Usage, $T_u / \Phi T_n$

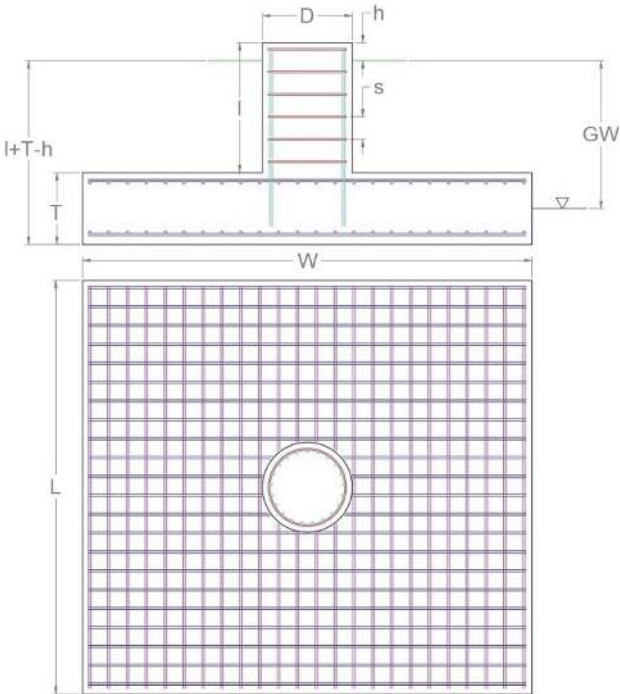
93.5%



MAT & PIER FOUNDATION ANALYSIS (NODE 1)

APPLIED GLOBAL REACTIONS		
Moment (k-ft)	Axial (k)	Shear (k)
6.26	48.76	0.48

FOUNDATION PARAMETERS			
Mat Length:	L	4	ft
Mat Width:	W	4	ft
Mat Thickness:	T	1.25	ft
Base Depth:	L+T-h	4	ft
Pier Shape:		Square	
Pier Width:	D	2	ft
Pier Height above Grade:	h	0.5	ft
Concrete Compressive Strength:		3,000	psi
Mat Bottom Rebar:		(5) #5 bars [60 ksi]	
Pier Vertical Rebar:		(8) #6 bars [60 ksi]	
Pier Rebar Ties:	s	#3 bars @ 16.0" c/c [60 ksi]	
Rebar Clear Cover:		3.0	in
Tower Eccentricity:	ecc	0	ft
Tower Leg Count		1	



SOIL PARAMETERS			
Water Table Depth [BGL]:	GW	12	ft
Soil Unit Weight:		127	pcf
Ultimate Skin Friction:		980	psf
Ultimate Bearing Pressure:		10,200	psf
Bearing Pressure Type:		Net	
Coefficient of Shear Friction:		1	

SOIL STRENGTH ANALYSIS			
Soil Strength Reduction Factor, Φ_s	Uplift Strength Reduction Factor, Φ_s	Asset Dead Load Factor	Dead Load Factor
0.6	0.75	0.9	1.2

SOIL OVERTURNING ANALYSIS		
Design Moment, $M_{u,Design}$ (k-ft)	Nominal Overturning Capacity, $\Phi_m M_n$ (k-ft)	Soil Overturning Usage, $M_{u,Design} / \Phi_m M_n$
8.42	93.24	9.0%

SOIL BEARING ANALYSIS			
Net Bearing Pressure, $P_{u,Net}$ (psf)	Nominal Bearing Capacity, $\Phi_b P_n$ (psf)	Bearing Pressure Controlling Load Direction	Soil Bearing Usage, $P_{u,net} / \Phi_b P_n$
3,070.00	6,425.00	Parallel to Pad Edge	47.8%

SOIL SLIDING SHEAR ANALYSIS					
Applied Shear Force, V_u (k)	Friction Resistance (k)	Passive Pressure (psf)	Passive Pressure Resistance (k)	Nominal Shear Capacity, $\Phi_s V_n$ (k)	Soil Sliding Shear Usage, $V_u / \Phi_s V_n$
0.48	49.77	428.6	2.14	31.15	2.0%

MAT REINFORCING STEEL STRENGTH ANALYSIS

Steel Elastic Modulus, E (ksi)	Strength Bending/Tension Reduction Factor, Φ_b	Strength Shear Reduction Factor, Φ_v	Strength Compression Reduction Factor, Φ_c
29,000	0.9	0.75	0.65

MAT REINFORCING ONE WAY SHEAR ANALYSIS

One Way Design Shear, V_u (k)	Nominal One Way Shear Capacity, $\Phi_c V_n$ (k)	One Way Shear Controlling Load Direction	Mat One Way Shear Usage, $V_u / \Phi_c V_n$	
1.82	19.75	Diagonal to Pad Edge	9.2%	

MAT REINFORCING PUNCHING SHEAR ANALYSIS

Punching Shear Design Stress, v_u (psi)	Nominal Punching Shear Capacity, $\Phi_c V_n$ (psi)	Mat Punching Shear Usage, $v_u / \Phi_c V_n$	
33.7	164.3	20.5%	

MAT REINFORCING MOMENT TRANSFER ANALYSIS

Moment Transfer Effective Flexural Width, w_f (in)	Neutral Axis Depth (in)	Pier Moment at Joint, M_{ut} (k-in)	Nominal Moment Transfer Capacity, $\Phi M_{sc,f}$ (k-in)	Mat Moment Transfer Usage, $0.6 M_{ut} / \Phi M_{sc,f}$	
5.75	0.81	0.00	1,407.4	0.0%	

MAT REINFORCING FLEXURE ANALYSIS - LOWER STEEL

Factored Moment, M_u (k-ft)	Nominal Flexural Capacity, ΦM_n (k-ft)	Flexural Steel Controlling Load Direction	Mat Lower Rebar Flexure Usage, $M_u / \Phi M_n$	
5.80	77.09	Parallel to Pad Edge	7.5%	

PIER REINFORCING STEEL STRENGTH ANALYSIS

Rebar Cage Diameter (in)	Steel Elastic Modulus, E (ksi)	Strength Bending/Tension Reduction Factor, Φ_b	Strength Shear Reduction Factor, Φ_v	Strength Compression Reduction Factor, Φ_c
16.50	29,000	0.9	0.75	0.65

PIER REINFORCING MOMENT ANALYSIS

Design Moment, M_u (k-ft)	Nominal Moment Capacity, $\Phi_b M_n$ (k-ft)	Bending Reinforcement Ratio	Pier Rebar Flexure Usage, $M_u / \Phi_b M_n$	
7.82	130.14	0.006	6.0%	

PIER REINFORCING COMPRESSION ANALYSIS

Design Compression, P_u (k)	Nominal Compressive Capacity, $\Phi_p P_n$ (k)	Pier Rebar Compressive Usage, $P_u / \Phi_p P_n$	
48.76	772.84	6.3%	

PIER REINFORCING SHEAR ANALYSIS

Design Shear, V_u (k)	Nominal Shear Capacity, $\Phi_v V_n$ (k)	Pier Rebar Shear Usage, $V_u / \Phi_v V_n$	
0.48	61.21	0.8%	