

Alex Murshteyn, Site Acquisition
c/o T-Mobile Northeast LLC (“T-Mobile”)
Centerline Communications, LLC
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May 12, 2017

Melanie A. Bachman
Acting Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

**RE: Notice of Exempt Modification // Site Number: CTFF310D (ATC: 283420)
23 Stonybrook Road, Stratford, CT 06614
N 41.20328 // W -73.14863**

Dear Ms. Bachman:

T-Mobile Northeast LLC (“T-Mobile”) currently maintains 6 antennas at the 97-foot and 87-foot levels (3 at each) on the existing 120-foot monopole tower at 23 Stonybrook Road, Stratford, CT. The tower is owned by American Tower Corporation. The property is owned by Stonybrook Management LLC. T-Mobile now intends to replace all 6 of its existing antennas with 6 new PCS/AWS/LTE (L2100/1900/700 dual- and tri-band) antennas for its PCS/AWS and L700 LTE upgrade. These antennas would be installed at the 97-foot (dual-band) and 87-foot (tri-band) levels on the tower. The 3 existing remote radio units (RRUS) will remain behind the lower level antennas and 3 more RRUs will be added to them when replacement antennas are installed. T-Mobile will also consolidate its existing tower mounted amplifiers (TMAs) on the lower level and maintain all existing cabling unchanged. However, the structural analysis enclosed herewith also alludes to additional equipment and proposed changes, which indicate internal documentary adjustments and loading reserves being apportioned to allow installation of future equipment, including 3 more antennas, otherwise not planned at this time. Solely the more circumscribed final loading shown in the construction drawings will be deployed under this notice.

The current proposal involves an antenna swap only (six for six); no antennas will be added.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to John

A. Harkins, Mayor for the Town of Stratford, the Town's Office of Planning and Zoning, American Tower, the tower owner and the ground owner, Stonybrook Management LLC.

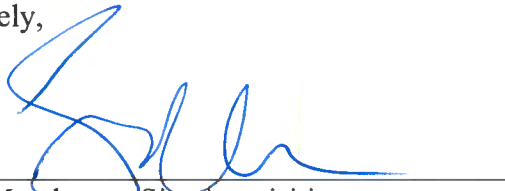
The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

Enclosed to accommodate this filing are construction drawings dated April 5, 2017 by Infinigy, a structural analysis dated April 14, 2017 by A.T. Engineering Service, PLLC and an RF Emissions Analysis Report dated April 21, 2017 by EBI Consulting.

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modifications will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading, as shown in the attached structural analysis by A.T. Engineering Service, PLLC, dated April 14, 2017.

For the foregoing reasons, T-Mobile respectfully submits that the proposed modifications to the above referenced telecommunications facility constitute an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,



Alex Murshteyn, Site Acquisition
c/o T-Mobile Northeast LLC
Centerline Communications, LLC
95 Ryan Drive, Suite 1
Raynham, MA 02767
Mobile: (508) 821-0159
AMurshteyn@centerlinecommunications.com

Attachments



cc: John A. Harkins, Mayor, Town of Stratford - as elected official
Town of Stratford Office of Planning and Zoning - as P&Z officials
American Tower Corporation - as tower owner
Stonybrook Management LLC - as property owner



AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 119 ft Monopole
ATC Site Name : Stoneybrook RD CT, CT
ATC Site Number : 283420
Engineering Number : OAA700181_C3_01
Proposed Carrier : T-Mobile
Carrier Site Name : 23 Stoneybrook RD
Carrier Site Number : CTFF310D
Site Location : 23 Stonybrook Road
Stratford, CT 06614-3715
41.203300,-73.148600
County : Fairfield
Date : April 14, 2017
Max Usage : 61%
Result : Pass

Prepared By:
Kelsey Sargent, E.I.
Structural Engineer I

Reviewed By:



Apr 17 2017 3:37 PM

COA: PEC.0001553



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Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 119 ft monopole to reflect the change in loading by T-Mobile .

Supporting Documents

Tower Drawings	Valmont Order #20380-60, dated June 11, 2010
Foundation Drawing	Valmont Order #20380-60, dated January 7, 2011
Geotechnical Report	Terracon Project #J2105132, dated April 2, 2010
Modifications	TES Job #13142, dated November 12, 2014

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:	97 mph (3-Second Gust, V_{asd}) / 125 mph (3-Second Gust, V_{ult})
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 3/4" radial ice concurrent
Code:	ANSI/TIA-222-G / 2012 IBC / 2016 Connecticut State Building Code
Structure Class:	II
Exposure Category:	B
Topographic Category:	1
Crest Height:	0 ft
Spectral Response:	$S_s = 0.20$, $S_1 = 0.06$
Site Class:	D - Stiff Soil

Conclusion

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

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



Existing and Reserved Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
117.0	117.0	6	CCI TPX-070821	T-Arms	(12) 1 5/8" Coax (4) 7/8" Fiber (3) 0.38" Cable (1) 0.39" Fiber Trunk	AT&T Mobility
		2	Raycap DC6-48-60-18-8F(32.8 lbs)			
		3	Ericsson RRUS 32 B2			
		3	Ericsson RRUS-32 B30 (77 lbs)			
		3	Ericsson RRUS-11			
		3	Antel BXA-171063-12CF			
		3	CCI OPA-65R-LCUU-H6			
109.0	109.0	3	Antel BXA-171063-12CF	Flush	-	
		3	CCI OPA-65R-LCUU-H6			
97.0	-	-	-	Side Arms	(12) 1 5/8" Coax	T-Mobile
87.0	-	-	-	Side Arms	-	
77.0	79.0	6	Antel BXA-171063-12CF	Side Arms	(12) 1 5/8" Coax	Verizon
		6	Antel BXA-70063-6CF-6			
	77.0	3	Alcatel-Lucent 9442 RRH2x40-AWS			
		3	Alcatel-Lucent 9442 RRH 2x40 700U			

Equipment to be Removed

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
97.0	97.0	3	Ericsson AIR 21 B2A/B4P	-	(1) 1 5/8" Fiber	T-Mobile
		3	Ericsson Air 21 B4A/B2P			
		3	Andrew LNX-6515DS-VTM			
		6	RFS ATMAA1412D-1A20			

Proposed Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
97.0	97.0	3	Ericsson AIR32 B66Aa/B2a	Side Arms	-	T-Mobile
87.0	87.0	3	Ericsson RRUS 11 B12	Side Arms	(1) 1 5/8" Fiber	
		3	Ericsson RRUS 01 B2 w/ Solar Shield			
		3	Andrew SBNHH-1D65C			
		3	RFS ATMAA1412D-1A20			

¹Mount elevation is defined as height above bottom of steel structure to the bottom of mount, RAD elevation is defined as center of antenna above ground level (AGL).

Install proposed coax inside the pole shaft.



Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	35%	Pass
Shaft	51%	Pass
Base Plate	37%	Pass
Flanges	61%	Pass
Reinforcement	44%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Moment (Kips-Ft)	1,090.1	46%
Axial (Kips)	23.2	42%
Shear (Kips)	13.2	17%

The structure base reactions resulting from this analysis were found to be acceptable through analysis based on geotechnical and foundation information, therefore no modification or reinforcement of the foundation will be required.

Deflection and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Sway (Rotation) (°)
97.0	Ericsson AIR32 B66Aa/B2a	T-Mobile	0.743	0.88
87.0	RFS ATMAA1412D-1A20		.600	0.77
	Ericsson RRUS 11 B12			
	Ericsson RRUS 01 B2 w/ Solar Shield			

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



Standard Conditions

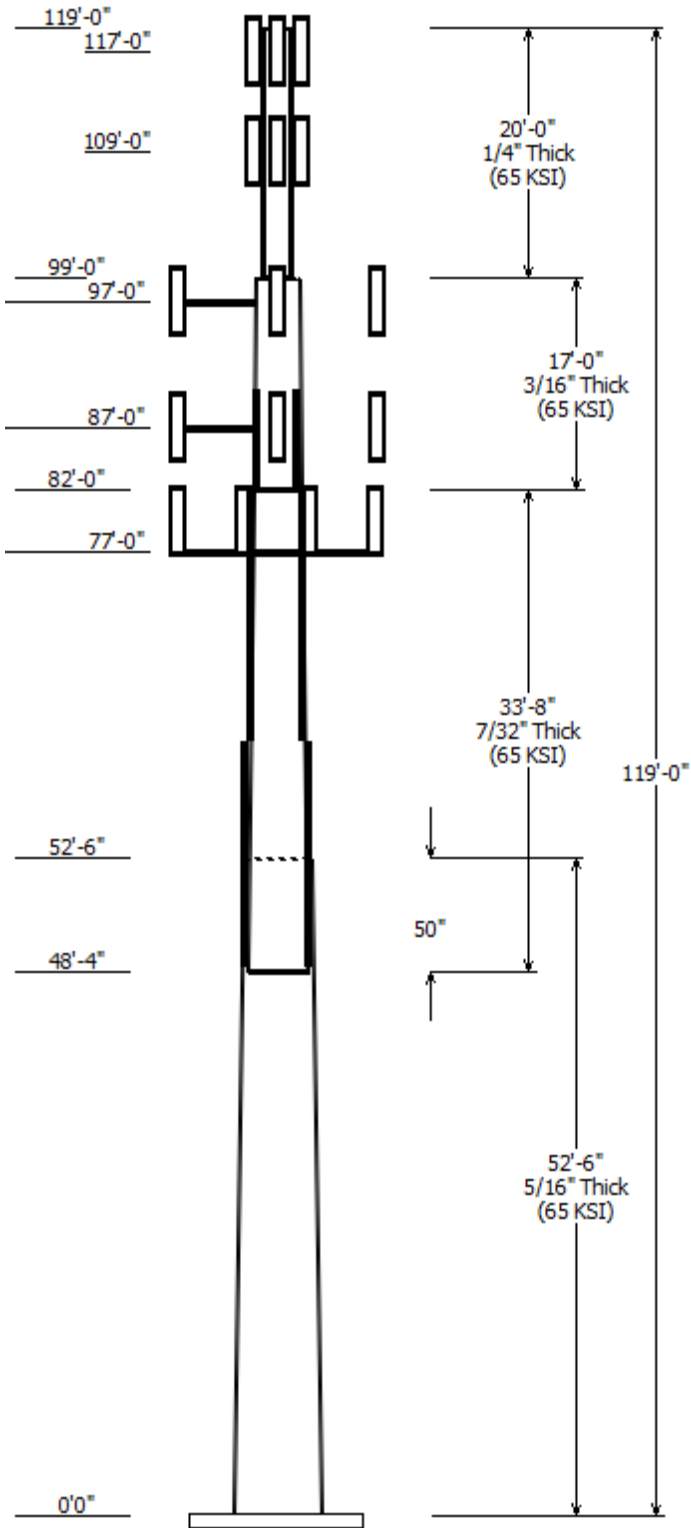
All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but is not necessary limited, to:

- Information supplied by the client regarding the structure itself, antenna, mounts and feed line loading on the structure and its components, or other relevant information.
- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements of the structure.

It is the responsibility of the client to ensure that the information provided to A.T. Engineering Service, PLLC and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with the drawings and specifications and that their capacity has not significantly changed from the "as new" condition.

Unless explicitly agreed by both the client and American Tower Corporation, all services will be performed in accordance with the current revision of ANSI/TIA -222. The design basic wind speed will be determined based on the minimum basic wind speed as prescribed in ANSI/TIA-222. Although every effort is taken to ensure that the loading considered is adequate to meet the requirements of all applicable regulatory entities, we can provide no assurance to meet any other local and state codes or requirements. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes, the client shall specify the exact requirement.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. A.T. Engineering Service, PLLC is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.



Job Information	
Pole :	283420
Code:	ANSI/TIA-222-G
Description :	
Client :	T-MOBILE
Struct Class :	II
Location :	STONEBROOK RD CT, CT
Shape :	18 Sides
Exposure :	B
Height :	119.00 (ft)
Topo :	1
Base Elev (ft):	0.00
Taper:	0.30000@in/ft

Sections Properties								
Shaft Section	Length (ft)	Diameter (in)		Thick (in)	Joint Type	Overlap Length (in)	Taper (in/ft)	Steel Grade (ksi)
		Top	Bottom					
1	52.500	26.25	42.00	0.313		0.000	0.300000	65
2	33.667	17.83	27.93	0.219	Slip Joint	50.000	0.300000	65
3	17.000	12.73	17.83	0.188	Butt Joint	0.000	0.300000	65
4	20.000	12.56	12.56	0.250	Butt Joint	0.000	0.000000	65

Discrete Appurtenance			
Attach Elev (ft)	Force Elev (ft)	Qty	Description
117.000	117.000	2	Raycap DC6-48-60-18-8F(32.8 lb)
117.000	117.000	3	Ericsson RRUS-11
117.000	117.000	3	Ericsson RRUS 32 B2
117.000	117.000	3	Ericsson RRUS-32 B30 (77 lbs)
117.000	117.000	6	CCI TPX-070821
117.000	117.000	3	CCI OPA-65R-LCUU-H6
117.000	117.000	3	Amphenol Antel BXA-171063-
109.000	109.000	3	CCI OPA-65R-LCUU-H6
109.000	109.000	3	Amphenol Antel BXA-171063-
97.000	97.000	1	Side Arms
97.000	97.000	3	Ericsson AIR32 B66Aa/B2a
87.000	87.000	3	Andrew SBNHH-1D65C
87.000	87.000	1	Side Arms
87.000	87.000	3	Ericsson RRUS 01 B2 w/ Solar S
87.000	87.000	3	Ericsson RRUS 11 B12
87.000	87.000	3	RFS ATMAA1412D-1A20
77.000	79.000	6	Amphenol Antel BXA-70063-
77.000	79.000	6	Amphenol Antel BXA-171063-
77.000	77.000	3	Alcatel-Lucent 9442 RRH 2x40 7
77.000	77.000	3	Flat Side Arm
77.000	77.000	3	Alcatel-Lucent 9442 RRH2x40-

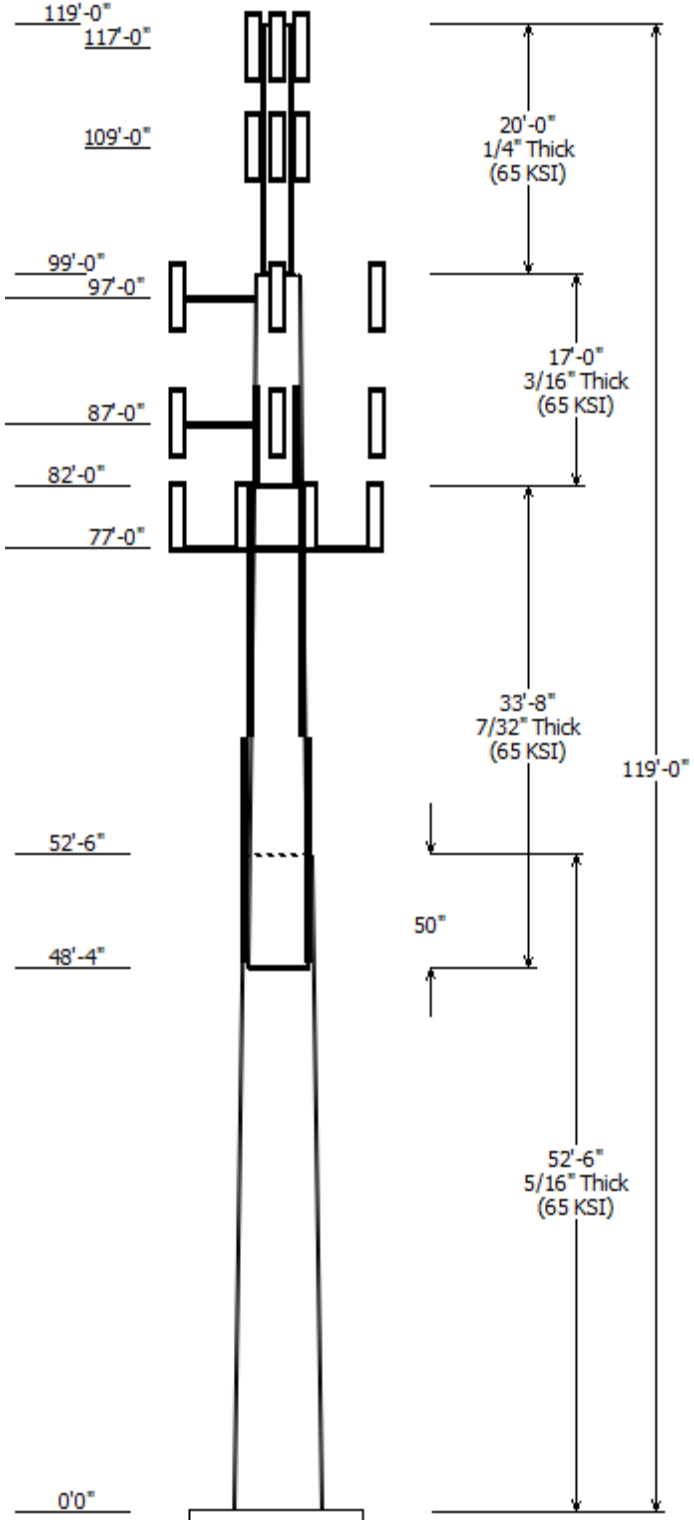
Linear Appurtenance			
From Elev (ft)	To Elev (ft)	Description	Exposed To Wind
42.000	92.000	Flat Bar	Yes
0.000	97.000	1 5/8" Coax	No
0.000	117.0	0.38" Cable	No
0.000	117.0	0.39" Fiber Trunk	No
0.000	117.0	1 5/8" Coax	No
0.000	117.0	7/8" Fiber	No
0.000	77.000	1 5/8" Coax	No
0.000	87.000	1 5/8" Fiber	No

Load Cases	
1.2D + 1.6W	97 mph with No Ice
0.9D + 1.6W	97 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 0.75 in Radial Ice
(1.2 + 0.2Sds) * DL + E	Seismic Equivalent Lateral Forces Method

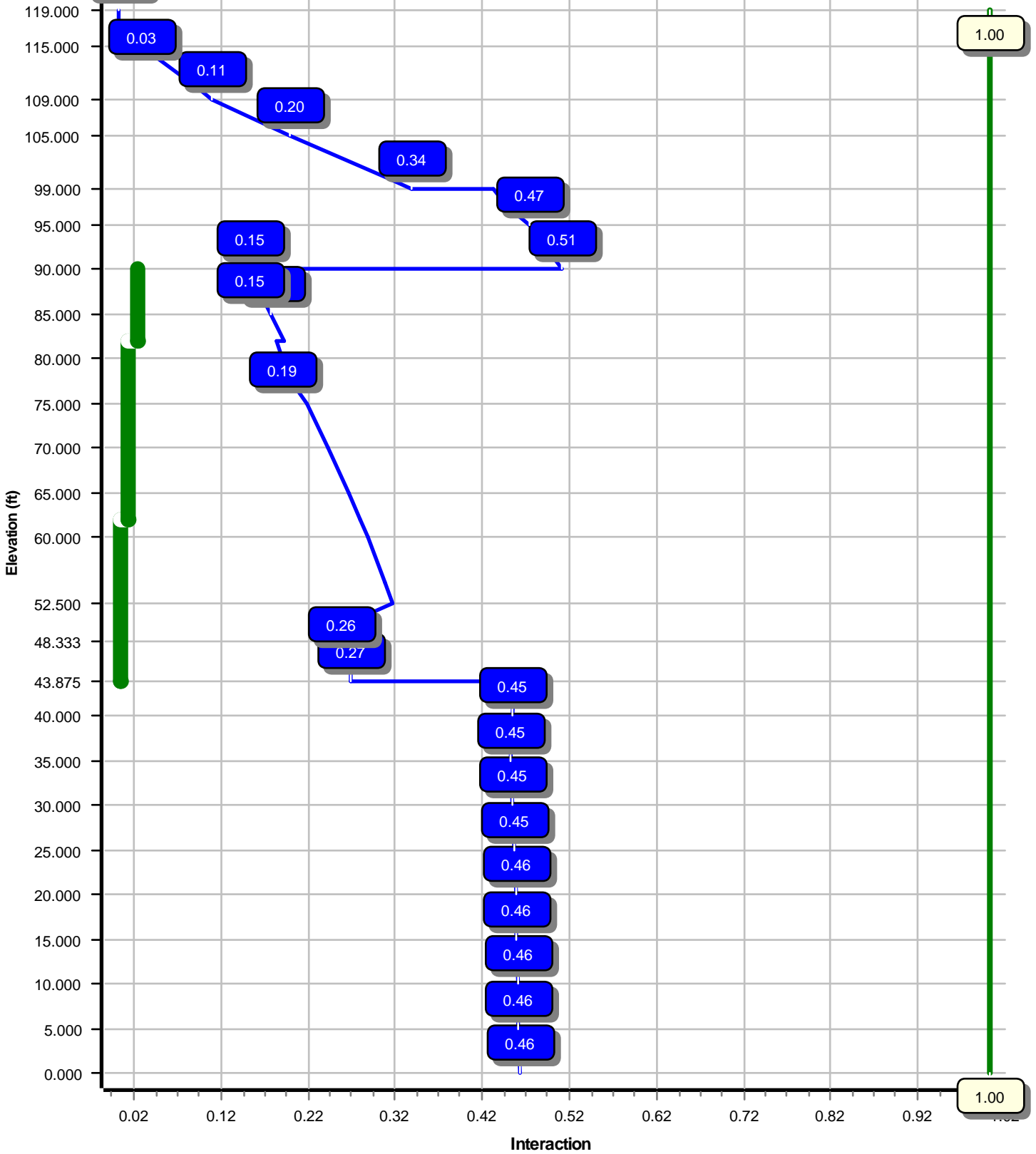
$(1.2 + 0.2Sds) * DL + E$	Seismic Equivalent Modal Analysis Method
$(0.9 - 0.2Sds) * DL + E$	Seismic (Reduced DL) Equivalent Lateral
$(0.9 - 0.2Sds) * DL + E$	Seismic (Reduced DL) Equivalent Modal
1.0D + 1.0W	Serviceability 60 mph

Reactions			
Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.6W	1090.14	13.23	23.23
0.9D + 1.6W	1079.06	13.20	17.42
1.2D + 1.0Di + 1.0Wi	298.29	3.68	37.28
$(1.2 + 0.2Sds) * DL + E$ ELFM	85.71	1.00	23.02
$(1.2 + 0.2Sds) * DL + E$ EMAM	71.27	0.84	23.02
$(0.9 - 0.2Sds) * DL + E$ ELFM	84.84	1.00	15.86
$(0.9 - 0.2Sds) * DL + E$ EMAM	70.47	0.84	15.86
1.0D + 1.0W	258.93	3.16	19.38

Dish Deflections			
Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
	0.00	0.000	0.000



Load Case : 1.2D + 1.6W
Max Ratio 50.87% at 90.1 ft



Site Number: 283420

Code: ANSI/TIA-222-G

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Site Name: STONEYBROOK RD CT, CT

Engineering Number: OAA700181_C3_01

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Customer: T-MOBILE

Analysis Parameters

Location:	FAIRFIELD County, CT	Height (ft):	119
Code:	ANSI/TIA-222-G	Base Diameter (in):	42.00
Shape:	18 Sides	Top Diameter (in):	12.56
Pole Type:	Custom	Taper (in/ft) :	0.300
Pole Manufacturer:	Valmont	Rotation (deg) :	0.00

Ice & Wind Parameters

Structure Class:	II	Design Wind Speed Without Ice:	97 mph
Exposure Category:	B	Design Wind Speed With Ice:	50 mph
Topographic Category:	1	Operational Wind Speed:	60 mph
Crest Height:	0.0 ft	Design Ice Thickness:	0.75 in

Seismic Parameters

Analysis Method:	Equivalent Modal Analysis & Equivalent Lateral Force Methods		
Site Class:	D - Stiff Soil		
Period Based on Rayleigh Method (sec):	1.71		
T _L (sec):	6	p:	1.3
S _s :	0.203	S ₁ :	0.064
F _a :	1.600	F _v :	2.400
S _{ds} :	0.217	S _{d1} :	0.102
		C _s :	0.040
		C _s Max:	0.040
		C _s Min:	0.030

Load Cases

1.2D + 1.6W	97 mph with No Ice
0.9D + 1.6W	97 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 0.75 in Radial Ice
(1.2 + 0.2S _{ds}) * DL + E ELFM	Seismic Equivalent Lateral Forces Method
(1.2 + 0.2S _{ds}) * DL + E EMAM	Seismic Equivalent Modal Analysis Method
(0.9 - 0.2S _{ds}) * DL + E ELFM	Seismic (Reduced DL) Equivalent Lateral Forces Method
(0.9 - 0.2S _{ds}) * DL + E EMAM	Seismic (Reduced DL) Equivalent Modal Analysis Method
1.0D + 1.0W	Serviceability 60 mph

Site Number: 283420

Code: ANSI/TIA-222-G

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Site Name: STONEYBROOK RD CT, CT

Engineering Number: OAA700181_C3_01

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Customer: T-MOBILE

Shaft Section Properties

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Joint Len (in)	Weight (lb)	Bottom						Top						
							Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Taper (in/ft)
1-18	52.500	0.3125	65		0.00	5,991	42.00	0.00	41.35	9078.5	21.94	134.40	26.25	52.50	25.73	2186.6	13.05	84.00	0.300000
2-18	33.667	0.2188	65	Slip	50.00	1,803	27.93	48.33	19.24	1868.2	20.76	127.71	17.83	82.00	12.23	479.8	12.61	81.54	0.300000
3-18	17.000	0.1875	65	Butt	0.00	520	17.83	82.00	10.50	413.4	15.01	95.13	12.73	99.00	7.47	148.6	10.22	67.93	0.300000
4-18	20.000	0.2500	65	Butt	0.00	665	12.56	99.00	9.77	187.1	7.10	50.25	12.56	119.00	9.77	187.1	7.10	50.25	0.000000
Shaft Weight						8,979													

Discrete Appurtenance Properties

Attach Elev (ft)	Description	Qty	Weight (lb)	No Ice EPAa (sf)	Orientation Factor	Weight (lb)	Ice EPAa (sf)	Orientation Factor	Distance From Face (ft)	Vert Ecc (ft)
117.00	Amphenol Antel BXA-171063-	3	12.80	4.790	0.88	106.31	7.094	0.88	0.000	0.000
117.00	CCI OPA-65R-LCUU-H6	3	73.00	9.660	0.79	271.77	12.368	0.79	0.000	0.000
117.00	CCI TPX-070821	6	7.50	0.550	0.50	19.34	1.099	0.50	0.000	0.000
117.00	Ericsson RRUS 32 B2	3	53.00	2.740	0.70	124.83	3.881	0.70	0.000	0.000
117.00	Ericsson RRUS-11	3	55.00	3.790	0.70	142.68	5.043	0.70	0.000	0.000
117.00	Ericsson RRUS-32 B30 (77	3	77.00	3.310	0.70	171.98	4.562	0.70	0.000	0.000
117.00	Raycap DC6-48-60-18-	2	32.80	1.280	1.00	93.05	1.874	1.00	0.000	0.000
109.00	Amphenol Antel BXA-171063-	3	12.80	4.790	0.88	105.56	7.076	0.88	0.000	0.000
109.00	CCI OPA-65R-LCUU-H6	3	73.00	9.660	0.79	270.17	12.346	0.79	0.000	0.000
97.00	Ericsson AIR32 B66Aa/B2a	3	132.20	6.510	0.71	284.89	8.609	0.71	0.000	0.000
97.00	Side Arms	1	560.00	8.500	1.00	1,008.64	15.310	1.00	0.000	0.000
87.00	Andrew SBNHH-1D65C	3	66.10	11.390	0.70	282.15	14.459	0.70	0.000	0.000
87.00	Ericsson RRUS 01 B2 w/	3	44.00	3.150	0.67	118.09	4.281	0.67	0.000	0.000
87.00	Ericsson RRUS 11 B12	3	50.70	2.790	0.67	119.33	3.829	0.67	0.000	0.000
87.00	RFS ATMAA1412D-1A20	3	13.00	1.000	0.50	38.14	1.633	0.50	0.000	0.000
87.00	Side Arms	1	560.00	8.500	1.00	1,003.73	15.235	1.00	0.000	0.000
77.00	Alcatel-Lucent 9442 RRH	3	50.70	2.740	0.67	129.37	3.755	0.67	0.000	0.000
77.00	Alcatel-Lucent 9442	3	49.00	2.500	0.67	120.87	3.532	0.67	0.000	0.000
77.00	Amphenol Antel BXA-171063-	6	12.80	4.790	0.72	102.44	6.999	0.72	0.000	2.000
77.00	Amphenol Antel BXA-70063-	6	17.00	7.570	0.66	136.06	11.061	0.66	0.000	2.000
77.00	Flat Side Arm	3	150.00	6.300	0.67	218.48	8.601	0.67	0.000	0.000
Totals		67	4146.30			11,259.39			Number of Loadings : 21	

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Diameter (in)	Coax Weight (lb/ft)	Projected Flat	Projected Width (in)	Exposed To Wind	Carrier
0.00	117.00	3	0.38" Cable	0.38	0.23	N	0.38	N	AT&T Mobility
0.00	117.00	1	0.39" Fiber Trunk	0.39	0.06	N	0.39	N	AT&T Mobility
0.00	117.00	12	1 5/8" Coax	1.98	0.82	N	1.98	N	AT&T Mobility
0.00	117.00	4	7/8" Fiber	0.88	0.70	N	0.88	N	AT&T Mobility
0.00	97.00	12	1 5/8" Coax	1.98	0.82	N	1.98	N	T-Mobile
42.00	92.00	3	Flat Bar	1.00	0.00	N	2.00	Y	--
0.00	87.00	1	1 5/8" Fiber	1.63	1.61	N	1.63	N	T-Mobile
0.00	77.00	12	1 5/8" Coax	1.98	0.82	N	1.98	N	Verizon

Additional Steel

Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Offset (in)	Intermediate Connections Description	Spacing (in)	Len (in)	Connectors	Continuation?
43.88	62.00	3	PL PL 6" x 1"	65	0.00	5/8" Hollo Bolt	24.0	3.00	5/8" Hollo Bolt	No

Site Number: 283420

Code: ANSI/TIA-222-G

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Site Name: STONEYBROOK RD CT, CT

Engineering Number: OAA700181_C3_01

4/14/2017 6:42:42 PM

Customer: T-MOBILE

62.00	82.00	3	PL	PL 6" x 1"	65	0.00	5/8" Hollo Bolt	24.0	3.00	5/8" Hollo Bolt	Yes
82.00	90.13	3	PL	PL 6" x 1"	65	0.00	5/8" Hollo Bolt	24.0	3.00	5/8" Hollo Bolt	Yes

Segment Properties (Max Len : 5. ft)

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	F'y (ksi)	S (in ³)	Z (in ³)	Weight (lb)	Additional Reinforcing		
												Area (in ²)	Ix (in ⁴)	Weight (lb)
0.00		0.3125	42.000	41.347	9,078.5	21.94	134.40	75.6	425.7	0.0	0.0			
5.00		0.3125	40.500	39.860	8,133.3	21.09	129.60	76.6	395.5	0.0	690.8			
10.00		0.3125	39.000	38.372	7,256.2	20.24	124.80	77.6	366.5	0.0	665.5			
15.00		0.3125	37.500	36.884	6,444.4	19.40	120.00	78.6	338.5	0.0	640.2			
20.00		0.3125	36.000	35.396	5,695.6	18.55	115.20	79.6	311.6	0.0	614.9			
25.00		0.3125	34.500	33.909	5,007.2	17.70	110.40	80.6	285.9	0.0	589.6			
30.00		0.3125	33.000	32.421	4,376.6	16.86	105.60	81.6	261.2	0.0	564.3			
35.00		0.3125	31.500	30.933	3,801.3	16.01	100.80	82.6	237.7	0.0	538.9			
40.00		0.3125	30.000	29.445	3,278.8	15.16	96.00	82.6	215.3	0.0	513.6			
43.88	Reinf Bottom	0.3125	28.838	28.292	2,908.5	14.51	92.28	82.6	198.7	0.0	380.7			
45.00		0.3125	28.500	27.957	2,806.5	14.32	91.20	82.6	194.0	0.0	107.7	18.00	1,985	68.9
48.33	Bot - Section 2	0.3125	27.500	26.966	2,518.3	13.75	88.00	82.6	180.4	0.0	311.5	18.00	1,855	204.2
50.00		0.3125	27.000	26.470	2,381.9	13.47	86.40	82.6	173.8	0.0	259.7	18.00	1,847	102.1
52.50	Top - Section 1	0.2188	26.688	18.377	1,626.6	19.75	122.00	78.2	120.1	0.0	380.6	18.00	1,752	153.1
55.00		0.2188	25.938	17.856	1,492.3	19.14	118.57	78.9	113.3	0.0	154.1	18.00	1,660	153.1
60.00		0.2188	24.438	16.815	1,246.1	17.93	111.71	80.3	100.4	0.0	294.9	18.00	1,483	306.3
62.00	Reinf. Top Reinf	0.2188	23.837	16.398	1,155.7	17.45	108.97	80.9	95.5	0.0	113.0	18.00	1,415	122.5
65.00		0.2188	22.938	15.773	1,028.6	16.73	104.86	81.7	88.3	0.0	164.2	18.00	1,317	183.8
70.00		0.2188	21.438	14.732	838.0	15.52	98.00	82.6	77.0	0.0	259.5	18.00	1,160	306.3
75.00		0.2188	19.938	13.690	672.6	14.31	91.14	82.6	66.4	0.0	241.8	18.00	1,014	306.3
77.00		0.2188	19.337	13.274	613.0	13.82	88.40	82.6	62.4	0.0	91.8	18.00	958.4	122.5
80.00		0.2188	18.438	12.649	530.5	13.10	84.29	82.6	56.7	0.0	132.3	18.00	877.9	183.8
82.00	Top - Section 2	0.2188	17.837	12.232	479.8	12.61	81.54	82.6	53.0	0.0	84.7	18.00	826.2	122.5
82.00	Bot - Section 3	0.1875	17.837	10.504	413.4	15.01	95.13	82.6	45.6	0.0		18.00	826.2	
85.00		0.1875	16.938	9.968	353.3	14.16	90.33	82.6	41.1	0.0	104.5	18.00	751.7	183.8
87.00		0.1875	16.337	9.611	316.7	13.60	87.13	82.6	38.2	0.0	66.6	18.00	704.1	122.5
90.00		0.1875	15.438	9.075	266.7	12.75	82.33	82.6	34.0	0.0	95.4	18.00	635.7	183.8
90.13	Reinf. Top	0.1875	15.400	9.053	264.7	12.72	82.13	82.6	33.9	0.0	3.9	18.00	633.0	7.7
95.00		0.1875	13.938	8.183	195.5	11.34	74.33	82.6	27.6	0.0	143.0			
97.00		0.1875	13.337	7.826	171.0	10.78	71.13	82.6	25.2	0.0	54.5			
99.00	Top - Section 3	0.1875	12.738	7.469	148.6	10.22	67.93	82.6	23.0	0.0	52.0			
99.00	Bot - Section 4	0.2500	12.563	9.770	187.1	7.10	50.25	82.6	29.3	0.0				
100.0		0.2500	12.563	9.770	187.1	7.10	50.25	82.6	29.3	0.0	33.2			
105.0		0.2500	12.563	9.770	187.1	7.10	50.25	82.6	29.3	0.0	166.2			
109.0		0.2500	12.563	9.770	187.1	7.10	50.25	82.6	29.3	0.0	133.0			
110.0		0.2500	12.563	9.770	187.1	7.10	50.25	82.6	29.3	0.0	33.2			
115.0		0.2500	12.563	9.770	187.1	7.10	50.25	82.6	29.3	0.0	166.2			
117.0		0.2500	12.563	9.770	187.1	7.10	50.25	82.6	29.3	0.0	66.5			
119.0		0.2500	12.563	9.770	187.1	7.10	50.25	82.6	29.3	0.0	66.5			
											8,978.9			
												2,832.9		

Site Number: 283420

Code: ANSI/TIA-222-G

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Site Name: STONEYBROOK RD CT, CT

Engineering Number: OAA700181_C3_01

4/14/2017 6:42:42 PM

Customer: T-MOBILE

Load Case: 1.2D + 1.6W

97 mph with No Ice

25 Iterations

Gust Response Factor :1.10

Wind Importance Factor :1.00

Dead Load Factor :1.20

Wind Load Factor :1.60

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		159.9	0.0					0.0	0.0	159.9	0.0	0.0	0.0
5.00		314.0	829.0					0.0	208.1	314.0	1,037.1	0.0	0.0
10.00		302.4	798.6					0.0	208.1	302.4	1,006.7	0.0	0.0
15.00		290.7	768.2					0.0	208.1	290.7	976.3	0.0	0.0
20.00		279.1	737.9					0.0	208.1	279.1	945.9	0.0	0.0
25.00		267.5	707.5					0.0	208.1	267.5	915.6	0.0	0.0
30.00		258.8	677.1					0.0	208.1	258.8	885.2	0.0	0.0
35.00		255.2	646.7					0.0	208.1	255.2	854.8	0.0	0.0
40.00		224.5	616.4					0.0	208.1	224.5	824.4	0.0	0.0
43.88	Reinf Bottom	125.3	456.8					0.0	161.3	125.3	618.0	0.0	0.0
45.00		110.2	129.2					0.0	129.5	110.2	258.7	0.0	0.0
48.33	Bot - Section 2	123.4	373.8					0.0	383.7	123.4	757.5	0.0	0.0
50.00		102.4	311.6					0.0	191.9	102.4	503.5	0.0	0.0
52.50	Top - Section 1	121.5	456.7					0.0	287.8	121.5	744.5	0.0	0.0
55.00		178.0	184.9					0.0	287.8	178.0	472.7	0.0	0.0
60.00		163.6	353.9					0.0	575.6	163.6	929.5	0.0	0.0
62.00	Reinf. Top Reinf	113.3	135.6					0.0	230.2	113.3	365.9	0.0	0.0
65.00		176.0	197.1					0.0	345.4	176.0	542.4	0.0	0.0
70.00		211.8	311.4					0.0	575.6	211.8	887.0	0.0	0.0
75.00		143.1	290.1					0.0	575.6	143.1	865.7	0.0	0.0
77.00	Appertunance(s)	98.4	110.1	2,287.2	0.0	3,016.5	1,113.5	0.0	230.2	2,385.6	1,453.8	0.0	0.0
80.00		97.0	158.8					0.0	309.9	97.0	468.7	0.0	0.0
82.00	Top - Section 2	94.7	101.6					0.0	206.6	94.7	308.2	0.0	0.0
85.00		93.2	125.4					0.0	309.9	93.2	435.3	0.0	0.0
87.00	Appertunance(s)	90.8	79.9	1,468.2	0.0	0.0	1,297.7	0.0	206.6	1,559.0	1,584.2	0.0	0.0
90.00		56.2	114.5					0.0	304.1	56.2	418.6	0.0	0.0
90.13	Reinf. Top	78.8	4.6					0.0	12.7	78.8	17.3	0.0	0.0
95.00		106.1	171.5					0.0	135.9	106.1	307.4	0.0	0.0
97.00	Appertunance(s)	57.9	65.4	773.0	0.0	0.0	1,147.9	0.0	55.8	830.9	1,269.0	0.0	0.0
99.00	Top - Section 3	42.1	62.5					0.0	32.1	42.1	94.6	0.0	0.0
100.00		83.0	39.9					0.0	16.1	83.0	56.0	0.0	0.0
105.00		125.3	199.5					0.0	80.3	125.3	279.8	0.0	0.0
109.00	Appertunance(s)	70.2	159.6	1,449.7	0.0	0.0	308.9	0.0	64.3	1,519.9	532.7	0.0	0.0
110.00		85.2	39.9					0.0	16.1	85.2	56.0	0.0	0.0
115.00		99.8	199.5					0.0	80.3	99.8	279.8	0.0	0.0
117.00	Appertunance(s)	57.5	79.8	2,094.8	0.0	0.0	1,107.6	0.0	32.1	2,152.3	1,219.5	0.0	0.0
119.00		28.8	79.8					0.0	0.0	28.8	79.8	0.0	0.0
Totals:										13,358.4	23,252.2	0.00	0.00

Site Number: 283420

Code: ANSI/TIA-222-G

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Site Name: STONEYBROOK RD CT, CT

Engineering Number: OAA700181_C3_01

4/14/2017 6:42:44 PM

Customer: T-MOBILE

Load Case: 1.2D + 1.6W

97 mph with No Ice

25 Iterations

Gust Response Factor :1.10

Wind Importance Factor :1.00

Dead Load Factor :1.20

Wind Load Factor :1.60

Calculated Forces

Seg	Pu	Vu	Tu	Mu	Mu	Resultant	phi	phi	phi	phi	Total		
Elev	FY (-)	FX (-)	MY	MZ	MX	Moment	Pn	Vn	Tn	Mn	Deflect	Rotation	Ratio
(ft)	(kips)	(kips)	(ft-kips)	(ft-kips)	(ft-kips)	(ft-kips)	(kips)	(kips)	(ft-kips)	(ft-kips)	(in)	(deg)	
0.00	-23.23	-13.23	0.00	-1,090.14	0.00	1,090.14	2,813.31	1,406.66	4,820.79	2,413.98	0.00	0.00	0.460
5.00	-22.16	-12.98	0.00	-1,023.98	0.00	1,023.98	2,747.79	1,373.90	4,537.84	2,272.29	0.09	-0.17	0.459
10.00	-21.11	-12.74	0.00	-959.07	0.00	959.07	2,679.61	1,339.80	4,258.79	2,132.56	0.36	-0.34	0.458
15.00	-20.10	-12.51	0.00	-895.37	0.00	895.37	2,608.76	1,304.38	3,984.14	1,995.03	0.81	-0.52	0.457
20.00	-19.11	-12.28	0.00	-832.83	0.00	832.83	2,535.24	1,267.62	3,714.39	1,859.96	1.46	-0.71	0.455
25.00	-18.16	-12.07	0.00	-771.41	0.00	771.41	2,459.06	1,229.53	3,450.04	1,727.58	2.31	-0.91	0.454
30.00	-17.23	-11.86	0.00	-711.06	0.00	711.06	2,380.22	1,190.11	3,191.57	1,598.16	3.38	-1.12	0.452
35.00	-16.34	-11.65	0.00	-651.77	0.00	651.77	2,298.17	1,149.08	2,938.80	1,471.58	4.67	-1.34	0.450
40.00	-15.48	-11.46	0.00	-593.51	0.00	593.51	2,187.63	1,093.82	2,661.58	1,332.77	6.20	-1.58	0.453
43.88	-14.84	-11.35	0.00	-549.10	0.00	549.10	2,101.97	1,050.99	2,456.17	1,229.91	7.56	-1.77	0.454
45.00	-14.57	-11.25	0.00	-536.33	0.00	536.33	2,077.10	1,038.55	2,398.08	1,200.82	7.99	-1.83	0.266
48.33	-13.80	-11.12	0.00	-498.81	0.00	498.81	2,003.41	1,001.71	2,230.05	1,116.68	9.30	-1.93	0.261
50.00	-13.29	-11.02	0.00	-480.27	0.00	480.27	1,966.57	983.28	2,148.32	1,075.76	9.99	-1.98	0.256
52.50	-12.53	-10.89	0.00	-452.72	0.00	452.72	1,292.92	646.46	1,405.62	703.85	11.05	-2.06	0.315
55.00	-12.04	-10.72	0.00	-425.49	0.00	425.49	1,267.71	633.85	1,338.84	670.42	12.15	-2.14	0.305
60.00	-11.10	-10.55	0.00	-371.88	0.00	371.88	1,215.29	607.65	1,208.00	604.90	14.49	-2.32	0.285
62.00	-10.72	-10.44	0.00	-350.79	0.00	350.79	1,193.58	596.79	1,156.76	579.24	15.48	-2.40	0.277
62.00	-10.72	-10.44	0.00	-350.79	0.00	350.79	1,193.58	596.79	1,156.76	579.24	15.48	-2.40	0.277
65.00	-10.16	-10.26	0.00	-319.48	0.00	319.48	1,160.21	580.11	1,081.18	541.39	17.02	-2.51	0.263
70.00	-9.25	-10.04	0.00	-268.16	0.00	268.16	1,094.51	547.25	951.97	476.69	19.75	-2.69	0.240
75.00	-8.37	-9.87	0.00	-217.96	0.00	217.96	1,017.13	508.57	821.49	411.36	22.65	-2.86	0.215
77.00	-7.03	-7.43	0.00	-195.20	0.00	195.20	986.19	493.09	772.00	386.57	23.87	-2.93	0.200
80.00	-6.56	-7.32	0.00	-172.91	0.00	172.91	939.76	469.88	700.63	350.84	25.74	-3.03	0.189
82.00	-6.24	-7.21	0.00	-158.28	0.00	158.28	908.81	454.41	654.98	327.98	27.02	-3.10	0.180
82.00	-6.24	-7.21	0.00	-158.28	0.00	158.28	780.36	390.18	564.40	282.62	27.02	-3.10	0.000
85.00	-5.80	-7.10	0.00	-136.64	0.00	136.64	740.57	370.29	508.03	254.39	29.00	-3.19	0.175
87.00	-4.30	-5.47	0.00	-122.43	0.00	122.43	714.04	357.02	472.09	236.39	30.35	-3.26	0.163
90.00	-3.88	-5.39	0.00	-106.04	0.00	106.04	674.25	337.13	420.65	210.64	32.43	-3.36	0.151
90.13	-3.86	-5.31	0.00	-105.36	0.00	105.36	672.59	336.30	418.57	209.60	32.52	-3.36	0.150
90.13	-3.86	-5.31	0.00	-105.36	0.00	105.36	672.59	336.30	418.57	209.60	32.52	-3.36	0.509
95.00	-3.55	-5.20	0.00	-79.46	0.00	79.46	607.93	303.97	341.52	171.01	36.03	-3.50	0.471
97.00	-2.32	-4.30	0.00	-69.06	0.00	69.06	581.40	290.70	312.17	156.32	37.54	-3.72	0.446
99.00	-2.21	-4.26	0.00	-60.46	0.00	60.46	554.88	277.44	284.14	142.28	39.14	-3.93	0.429
99.00	-2.21	-4.26	0.00	-60.46	0.00	60.46	725.83	362.92	362.74	181.64	39.14	-3.93	0.336
100.00	-2.14	-4.18	0.00	-56.20	0.00	56.20	725.83	362.92	362.74	181.64	39.98	-4.05	0.312
105.00	-1.86	-4.04	0.00	-35.30	0.00	35.30	725.83	362.92	362.74	181.64	44.41	-4.39	0.197
109.00	-1.44	-2.49	0.00	-19.12	0.00	19.12	725.83	362.92	362.74	181.64	48.16	-4.56	0.107
110.00	-1.39	-2.40	0.00	-16.63	0.00	16.63	725.83	362.92	362.74	181.64	49.12	-4.59	0.094
115.00	-1.12	-2.28	0.00	-4.63	0.00	4.63	725.83	362.92	362.74	181.64	53.97	-4.67	0.027
117.00	-0.08	-0.04	0.00	-0.07	0.00	0.07	725.83	362.92	362.74	181.64	55.92	-4.67	0.000
119.00	0.00	-0.03	0.00	0.00	0.00	0.00	725.83	362.92	362.74	181.64	57.88	-4.67	0.000

Site Number: 283420

Code: ANSI/TIA-222-G

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Site Name: STONEYBROOK RD CT, CT

Engineering Number: OAA700181_C3_01

4/14/2017 6:42:44 PM

Customer: T-MOBILE

Load Case: 0.9D + 1.6W	97 mph with No Ice (Reduced DL)	25 Iterations
Gust Response Factor :1.10		Wind Importance Factor :1.00
Dead Load Factor :0.90		
Wind Load Factor :1.60		

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		159.9	0.0					0.0	0.0	159.9	0.0	0.0	0.0
5.00		314.0	621.7					0.0	156.1	314.0	777.8	0.0	0.0
10.00		302.4	599.0					0.0	156.1	302.4	755.0	0.0	0.0
15.00		290.7	576.2					0.0	156.1	290.7	732.2	0.0	0.0
20.00		279.1	553.4					0.0	156.1	279.1	709.5	0.0	0.0
25.00		267.5	530.6					0.0	156.1	267.5	686.7	0.0	0.0
30.00		258.8	507.8					0.0	156.1	258.8	663.9	0.0	0.0
35.00		255.2	485.1					0.0	156.1	255.2	641.1	0.0	0.0
40.00		224.5	462.3					0.0	156.1	224.5	618.3	0.0	0.0
43.88	Reinf Bottom	125.3	342.6					0.0	120.9	125.3	463.5	0.0	0.0
45.00		110.2	96.9					0.0	97.1	110.2	194.0	0.0	0.0
48.33	Bot - Section 2	123.4	280.3					0.0	287.8	123.4	568.1	0.0	0.0
50.00		102.4	233.7					0.0	143.9	102.4	377.6	0.0	0.0
52.50	Top - Section 1	121.5	342.5					0.0	215.8	121.5	558.3	0.0	0.0
55.00		178.0	138.7					0.0	215.8	178.0	354.5	0.0	0.0
60.00		163.6	265.4					0.0	431.7	163.6	697.1	0.0	0.0
62.00	Reinf. Top Reinf	113.3	101.7					0.0	172.7	113.3	274.4	0.0	0.0
65.00		176.0	147.8					0.0	259.0	176.0	406.8	0.0	0.0
70.00		211.8	233.6					0.0	431.7	211.8	665.2	0.0	0.0
75.00		143.0	217.6					0.0	431.7	143.0	649.3	0.0	0.0
77.00	Appertunance(s)	97.6	82.6	2,287.2	0.0	3,016.5	835.1	0.0	172.7	2,384.8	1,090.4	0.0	0.0
80.00		95.3	119.1					0.0	232.4	95.3	351.5	0.0	0.0
82.00	Top - Section 2	91.6	76.2					0.0	155.0	91.6	231.2	0.0	0.0
85.00		89.1	94.0					0.0	232.4	89.1	326.5	0.0	0.0
87.00	Appertunance(s)	85.3	60.0	1,468.2	0.0	0.0	973.3	0.0	155.0	1,553.4	1,188.2	0.0	0.0
90.00		52.4	85.8					0.0	228.1	52.4	313.9	0.0	0.0
90.13	Reinf. Top	78.6	3.5					0.0	9.5	78.6	13.0	0.0	0.0
95.00		106.1	128.7					0.0	101.9	106.1	230.6	0.0	0.0
97.00	Appertunance(s)	57.9	49.0	773.0	0.0	0.0	860.9	0.0	41.8	830.9	951.8	0.0	0.0
99.00	Top - Section 3	42.1	46.8					0.0	24.1	42.1	70.9	0.0	0.0
100.00		83.0	29.9					0.0	12.1	83.0	42.0	0.0	0.0
105.00		125.3	149.6					0.0	60.3	125.3	209.9	0.0	0.0
109.00	Appertunance(s)	70.2	119.7	1,449.7	0.0	0.0	231.7	0.0	48.2	1,519.9	399.5	0.0	0.0
110.00		85.2	29.9					0.0	12.1	85.2	42.0	0.0	0.0
115.00		99.8	149.6					0.0	60.3	99.8	209.9	0.0	0.0
117.00	Appertunance(s)	57.5	59.8	2,094.8	0.0	0.0	830.7	0.0	24.1	2,152.3	914.6	0.0	0.0
119.00		28.8	59.8					0.0	0.0	28.8	59.8	0.0	0.0
Totals:										13,339.2	17,439.2	0.00	0.00

Site Number: 283420

Code: ANSI/TIA-222-G

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Site Name: STONEYBROOK RD CT, CT

Engineering Number: OAA700181_C3_01

4/14/2017 6:42:45 PM

Customer: T-MOBILE

Load Case: 0.9D + 1.6W

97 mph with No Ice (Reduced DL)

25 Iterations

Gust Response Factor :1.10

Wind Importance Factor :1.00

Dead Load Factor :0.90

Wind Load Factor :1.60

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-17.42	-13.20	0.00	-1,079.06	0.00	1,079.06	2,813.31	1,406.66	4,820.79	2,413.98	0.00	0.00	0.453
5.00	-16.60	-12.94	0.00	-1,013.04	0.00	1,013.04	2,747.79	1,373.90	4,537.84	2,272.29	0.09	-0.16	0.452
10.00	-15.81	-12.68	0.00	-948.35	0.00	948.35	2,679.61	1,339.80	4,258.79	2,132.56	0.35	-0.34	0.451
15.00	-15.04	-12.43	0.00	-884.95	0.00	884.95	2,608.76	1,304.38	3,984.14	1,995.03	0.80	-0.52	0.449
20.00	-14.29	-12.19	0.00	-822.79	0.00	822.79	2,535.24	1,267.62	3,714.39	1,859.96	1.44	-0.70	0.448
25.00	-13.57	-11.97	0.00	-761.82	0.00	761.82	2,459.06	1,229.53	3,450.04	1,727.58	2.28	-0.90	0.447
30.00	-12.87	-11.74	0.00	-701.99	0.00	701.99	2,380.22	1,190.11	3,191.57	1,598.16	3.34	-1.11	0.445
35.00	-12.19	-11.52	0.00	-643.28	0.00	643.28	2,298.17	1,149.08	2,938.80	1,471.58	4.62	-1.33	0.443
40.00	-11.53	-11.32	0.00	-585.67	0.00	585.67	2,187.63	1,093.82	2,661.58	1,332.77	6.13	-1.56	0.445
43.88	-11.05	-11.21	0.00	-541.79	0.00	541.79	2,101.97	1,050.99	2,456.17	1,229.91	7.48	-1.75	0.446
45.00	-10.84	-11.11	0.00	-529.18	0.00	529.18	2,077.10	1,038.55	2,398.08	1,200.82	7.90	-1.81	0.261
48.33	-10.26	-10.98	0.00	-492.15	0.00	492.15	2,003.41	1,001.71	2,230.05	1,116.68	9.19	-1.91	0.257
50.00	-9.88	-10.88	0.00	-473.85	0.00	473.85	1,966.57	983.28	2,148.32	1,075.76	9.87	-1.96	0.251
52.50	-9.31	-10.75	0.00	-446.66	0.00	446.66	1,292.92	646.46	1,405.62	703.85	10.92	-2.04	0.309
55.00	-8.94	-10.58	0.00	-419.79	0.00	419.79	1,267.71	633.85	1,338.84	670.42	12.00	-2.12	0.300
60.00	-8.22	-10.41	0.00	-366.91	0.00	366.91	1,215.29	607.65	1,208.00	604.90	14.32	-2.29	0.280
62.00	-7.94	-10.29	0.00	-346.10	0.00	346.10	1,193.58	596.79	1,156.76	579.24	15.29	-2.37	0.272
62.00	-7.94	-10.29	0.00	-346.10	0.00	346.10	1,193.58	596.79	1,156.76	579.24	15.29	-2.37	0.272
65.00	-7.51	-10.12	0.00	-315.21	0.00	315.21	1,160.21	580.11	1,081.18	541.39	16.82	-2.48	0.259
70.00	-6.83	-9.90	0.00	-264.62	0.00	264.62	1,094.51	547.25	951.97	476.69	19.51	-2.65	0.236
75.00	-6.17	-9.74	0.00	-215.12	0.00	215.12	1,017.13	508.57	821.49	411.36	22.38	-2.82	0.212
77.00	-5.19	-7.31	0.00	-192.63	0.00	192.63	986.19	493.09	772.00	386.57	23.58	-2.89	0.197
80.00	-4.83	-7.20	0.00	-170.70	0.00	170.70	939.76	469.88	700.63	350.84	25.43	-2.99	0.186
82.00	-4.59	-7.11	0.00	-156.30	0.00	156.30	908.81	454.41	654.98	327.98	26.69	-3.06	0.177
82.00	-4.59	-7.11	0.00	-156.30	0.00	156.30	780.36	390.18	564.40	282.62	26.69	-3.06	0.000
85.00	-4.26	-7.01	0.00	-134.98	0.00	134.98	740.57	370.29	508.03	254.39	28.65	-3.15	0.172
87.00	-3.16	-5.39	0.00	-120.97	0.00	120.97	714.04	357.02	472.09	236.39	29.98	-3.22	0.161
90.00	-2.84	-5.32	0.00	-104.79	0.00	104.79	674.25	337.13	420.65	210.64	32.04	-3.31	0.149
90.13	-2.83	-5.25	0.00	-104.13	0.00	104.13	672.59	336.30	418.57	209.60	32.12	-3.32	0.148
90.13	-2.83	-5.25	0.00	-104.13	0.00	104.13	672.59	336.30	418.57	209.60	32.12	-3.32	0.501
95.00	-2.59	-5.14	0.00	-78.53	0.00	78.53	607.93	303.97	341.52	171.01	35.58	-3.46	0.464
97.00	-1.67	-4.26	0.00	-68.26	0.00	68.26	581.40	290.70	312.17	156.32	37.08	-3.67	0.440
99.00	-1.59	-4.21	0.00	-59.75	0.00	59.75	554.88	277.44	284.14	142.28	38.66	-3.88	0.423
99.00	-1.59	-4.21	0.00	-59.75	0.00	59.75	725.83	362.92	362.74	181.64	38.66	-3.88	0.331
100.00	-1.54	-4.13	0.00	-55.54	0.00	55.54	725.83	362.92	362.74	181.64	39.49	-4.00	0.308
105.00	-1.32	-4.00	0.00	-34.86	0.00	34.86	725.83	362.92	362.74	181.64	43.86	-4.34	0.194
109.00	-1.04	-2.46	0.00	-18.87	0.00	18.87	725.83	362.92	362.74	181.64	47.57	-4.50	0.105
110.00	-1.00	-2.37	0.00	-16.41	0.00	16.41	725.83	362.92	362.74	181.64	48.52	-4.53	0.092
115.00	-0.80	-2.25	0.00	-4.57	0.00	4.57	725.83	362.92	362.74	181.64	53.30	-4.61	0.026
117.00	-0.06	-0.03	0.00	-0.07	0.00	0.07	725.83	362.92	362.74	181.64	55.24	-4.62	0.000
119.00	0.00	-0.03	0.00	0.00	0.00	0.00	725.83	362.92	362.74	181.64	57.17	-4.62	0.000

Load Case: 1.2D + 1.0Di + 1.0Wi	50 mph with 0.75 in Radial Ice	24 Iterations
Gust Response Factor :1.10	Ice Dead Load Factor :1.00	Wind Importance Factor :1.00
Dead Load Factor :1.20		Ice Importance Factor :1.00
Wind Load Factor :1.00		

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		51.7	0.0					0.0	0.0	51.7	0.0	0.0	0.0
5.00		102.0	1,131.4					0.0	208.1	102.0	1,339.5	0.0	0.0
10.00		98.9	1,125.1					0.0	208.1	98.9	1,333.1	0.0	0.0
15.00		95.6	1,099.6					0.0	208.1	95.6	1,307.6	0.0	0.0
20.00		92.2	1,067.7					0.0	208.1	92.2	1,275.8	0.0	0.0
25.00		88.8	1,032.5					0.0	208.1	88.8	1,240.5	0.0	0.0
30.00		86.4	995.1					0.0	208.1	86.4	1,203.2	0.0	0.0
35.00		85.6	956.2					0.0	208.1	85.6	1,164.3	0.0	0.0
40.00		75.7	916.2					0.0	208.1	75.7	1,124.3	0.0	0.0
43.88	Reinf Bottom	42.4	683.3					0.0	173.9	42.4	857.1	0.0	0.0
45.00		37.4	194.6					0.0	137.1	37.4	331.7	0.0	0.0
48.33	Bot - Section 2	42.0	562.1					0.0	406.5	42.0	968.6	0.0	0.0
50.00		34.9	406.1					0.0	203.3	34.9	609.4	0.0	0.0
52.50	Top - Section 1	41.6	595.3					0.0	305.1	41.6	900.4	0.0	0.0
55.00		61.2	320.6					0.0	305.2	61.2	625.8	0.0	0.0
60.00		56.4	612.3					0.0	610.7	56.4	1,223.0	0.0	0.0
62.00	Reinf. Top Reinf	39.4	237.2					0.0	244.4	39.4	481.6	0.0	0.0
65.00		61.5	344.7					0.0	366.7	61.5	711.4	0.0	0.0
70.00		74.6	543.9					0.0	611.5	74.6	1,155.4	0.0	0.0
75.00		50.7	509.2					0.0	611.9	50.7	1,121.0	0.0	0.0
77.00	Appertunance(s)	34.9	195.7	543.9	0.0	731.9	2,581.4	0.0	244.8	578.8	3,022.0	0.0	0.0
80.00		34.3	282.1					0.0	331.9	34.3	614.0	0.0	0.0
82.00	Top - Section 2	33.2	181.6					0.0	221.4	33.2	403.0	0.0	0.0
85.00		32.5	240.2					0.0	332.1	32.5	572.4	0.0	0.0
87.00	Appertunance(s)	31.4	154.3	346.3	0.0	0.0	3,912.7	0.0	221.5	377.7	4,288.5	0.0	0.0
90.00		19.4	220.7					0.0	326.5	19.4	547.2	0.0	0.0
90.13	Reinf. Top	29.5	9.1					0.0	13.6	29.5	22.7	0.0	0.0
95.00		39.9	329.8					0.0	150.0	39.9	479.8	0.0	0.0
97.00	Appertunance(s)	22.1	128.0	196.4	0.0	0.0	3,011.2	0.0	55.8	218.6	3,195.0	0.0	0.0
99.00	Top - Section 3	16.2	122.8					0.0	32.1	16.2	154.9	0.0	0.0
100.00		32.1	69.7					0.0	16.1	32.1	85.8	0.0	0.0
105.00		48.6	349.1					0.0	80.3	48.6	429.5	0.0	0.0
109.00	Appertunance(s)	27.2	279.9	324.7	0.0	0.0	921.0	0.0	64.3	352.0	1,265.1	0.0	0.0
110.00		33.1	70.0					0.0	16.1	33.1	86.1	0.0	0.0
115.00		38.7	350.7					0.0	80.3	38.7	431.0	0.0	0.0
117.00	Appertunance(s)	22.3	140.5	482.2	0.0	0.0	2,401.9	0.0	32.1	504.6	2,574.5	0.0	0.0
119.00		11.2	140.6					0.0	0.0	11.2	140.6	0.0	0.0
Totals:										3,719.57	37,285.8	0.00	0.00

Site Number: 283420

Code: ANSI/TIA-222-G

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Site Name: STONEYBROOK RD CT, CT

Engineering Number: OAA700181_C3_01

4/14/2017 6:42:47 PM

Customer: T-MOBILE

Load Case: 1.2D + 1.0Di + 1.0Wi

50 mph with 0.75 in Radial Ice

24 Iterations

Gust Response Factor :1.10

Ice Dead Load Factor :1.00

Wind Importance Factor :1.00

Dead Load Factor :1.20

Ice Importance Factor :1.00

Wind Load Factor :1.00

Calculated Forces

Seg	Pu	Vu	Tu	Mu	Mu	Resultant	phi	phi	phi	phi	Total		
Elev	FY (-)	FX (-)	MY	MZ	MX	Moment	Pn	Vn	Tn	Mn	Deflect	Rotation	Ratio
(ft)	(kips)	(kips)	(ft-kips)	(ft-kips)	(ft-kips)	(ft-kips)	(kips)	(kips)	(ft-kips)	(ft-kips)	(in)	(deg)	
0.00	-37.28	-3.68	0.00	-298.29	0.00	298.29	2,813.31	1,406.66	4,820.79	2,413.98	0.00	0.00	0.137
5.00	-35.94	-3.61	0.00	-279.88	0.00	279.88	2,747.79	1,373.90	4,537.84	2,272.29	0.02	-0.05	0.136
10.00	-34.61	-3.54	0.00	-261.84	0.00	261.84	2,679.61	1,339.80	4,258.79	2,132.56	0.10	-0.09	0.136
15.00	-33.30	-3.47	0.00	-244.15	0.00	244.15	2,608.76	1,304.38	3,984.14	1,995.03	0.22	-0.14	0.135
20.00	-32.02	-3.40	0.00	-226.81	0.00	226.81	2,535.24	1,267.62	3,714.39	1,859.96	0.40	-0.19	0.135
25.00	-30.77	-3.34	0.00	-209.80	0.00	209.80	2,459.06	1,229.53	3,450.04	1,727.58	0.63	-0.25	0.134
30.00	-29.57	-3.28	0.00	-193.11	0.00	193.11	2,380.22	1,190.11	3,191.57	1,598.16	0.92	-0.31	0.133
35.00	-28.40	-3.21	0.00	-176.72	0.00	176.72	2,298.17	1,149.08	2,938.80	1,471.58	1.27	-0.37	0.132
40.00	-27.27	-3.16	0.00	-160.65	0.00	160.65	2,187.63	1,093.82	2,661.58	1,332.77	1.69	-0.43	0.133
43.88	-26.41	-3.13	0.00	-148.41	0.00	148.41	2,101.97	1,050.99	2,456.17	1,229.91	2.06	-0.48	0.133
45.00	-26.08	-3.09	0.00	-144.90	0.00	144.90	2,077.10	1,038.55	2,398.08	1,200.82	2.18	-0.50	0.078
48.33	-25.11	-3.05	0.00	-134.58	0.00	134.58	2,003.41	1,001.71	2,230.05	1,116.68	2.53	-0.52	0.077
50.00	-24.50	-3.02	0.00	-129.49	0.00	129.49	1,966.57	983.28	2,148.32	1,075.76	2.72	-0.54	0.075
52.50	-23.60	-2.98	0.00	-121.94	0.00	121.94	1,292.92	646.46	1,405.62	703.85	3.01	-0.56	0.093
55.00	-22.97	-2.93	0.00	-114.49	0.00	114.49	1,267.71	633.85	1,338.84	670.42	3.31	-0.58	0.090
60.00	-21.75	-2.87	0.00	-99.87	0.00	99.87	1,215.29	607.65	1,208.00	604.90	3.94	-0.63	0.084
62.00	-21.27	-2.83	0.00	-94.13	0.00	94.13	1,193.58	596.79	1,156.76	579.24	4.21	-0.65	0.082
62.00	-21.27	-2.83	0.00	-94.13	0.00	94.13	1,193.58	596.79	1,156.76	579.24	4.21	-0.65	0.082
65.00	-20.56	-2.78	0.00	-85.63	0.00	85.63	1,160.21	580.11	1,081.18	541.39	4.63	-0.68	0.078
70.00	-19.40	-2.71	0.00	-71.74	0.00	71.74	1,094.51	547.25	951.97	476.69	5.37	-0.73	0.071
75.00	-18.28	-2.65	0.00	-58.21	0.00	58.21	1,017.13	508.57	821.49	411.36	6.16	-0.77	0.064
77.00	-15.26	-2.04	0.00	-52.18	0.00	52.18	986.19	493.09	772.00	386.57	6.49	-0.79	0.059
80.00	-14.65	-2.00	0.00	-46.07	0.00	46.07	939.76	469.88	700.63	350.84	6.99	-0.82	0.056
82.00	-14.25	-1.97	0.00	-42.08	0.00	42.08	908.81	454.41	654.98	327.98	7.34	-0.84	0.053
82.00	-14.25	-1.97	0.00	-42.08	0.00	42.08	780.36	390.18	564.40	282.62	7.34	-0.84	0.000
85.00	-13.67	-1.93	0.00	-36.18	0.00	36.18	740.57	370.29	508.03	254.39	7.88	-0.86	0.052
87.00	-9.39	-1.49	0.00	-32.32	0.00	32.32	714.04	357.02	472.09	236.39	8.24	-0.88	0.047
90.00	-8.84	-1.46	0.00	-27.85	0.00	27.85	674.25	337.13	420.65	210.64	8.80	-0.91	0.043
90.13	-8.82	-1.44	0.00	-27.67	0.00	27.67	672.59	336.30	418.57	209.60	8.83	-0.91	0.043
90.13	-8.82	-1.44	0.00	-27.67	0.00	27.67	672.59	336.30	418.57	209.60	8.83	-0.91	0.145
95.00	-8.34	-1.40	0.00	-20.66	0.00	20.66	607.93	303.97	341.52	171.01	9.77	-0.94	0.135
97.00	-5.15	-1.13	0.00	-17.87	0.00	17.87	581.40	290.70	312.17	156.32	10.18	-1.00	0.123
99.00	-4.99	-1.11	0.00	-15.61	0.00	15.61	554.88	277.44	284.14	142.28	10.61	-1.06	0.119
99.00	-4.99	-1.11	0.00	-15.61	0.00	15.61	725.83	362.92	362.74	181.64	10.61	-1.06	0.093
100.00	-4.91	-1.08	0.00	-14.50	0.00	14.50	725.83	362.92	362.74	181.64	10.84	-1.08	0.087
105.00	-4.48	-1.03	0.00	-9.08	0.00	9.08	725.83	362.92	362.74	181.64	12.02	-1.17	0.056
109.00	-3.22	-0.66	0.00	-4.94	0.00	4.94	725.83	362.92	362.74	181.64	13.03	-1.22	0.032
110.00	-3.13	-0.62	0.00	-4.29	0.00	4.29	725.83	362.92	362.74	181.64	13.28	-1.22	0.028
115.00	-2.70	-0.57	0.00	-1.18	0.00	1.18	725.83	362.92	362.74	181.64	14.58	-1.24	0.010
117.00	-0.14	-0.01	0.00	-0.03	0.00	0.03	725.83	362.92	362.74	181.64	15.10	-1.25	0.000
119.00	0.00	-0.01	0.00	0.00	0.00	0.00	725.83	362.92	362.74	181.64	15.62	-1.25	0.000

Site Number: 283420

Code: ANSI/TIA-222-G

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Site Name: STONEYBROOK RD CT, CT

Engineering Number: OAA700181_C3_01

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Customer: T-MOBILE

Load Case: 1.0D + 1.0W

Serviceability 60 mph

24 Iterations

Gust Response Factor :1.10

Wind Importance Factor :1.00

Dead Load Factor :1.00

Wind Load Factor :1.00

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		38.2	0.0					0.0	0.0	38.2	0.0	0.0	0.0
5.00		75.1	690.8					0.0	173.4	75.1	864.2	0.0	0.0
10.00		72.3	665.5					0.0	173.4	72.3	838.9	0.0	0.0
15.00		69.5	640.2					0.0	173.4	69.5	813.6	0.0	0.0
20.00		66.7	614.9					0.0	173.4	66.7	788.3	0.0	0.0
25.00		64.0	589.6					0.0	173.4	64.0	763.0	0.0	0.0
30.00		61.9	564.3					0.0	173.4	61.9	737.7	0.0	0.0
35.00		61.0	538.9					0.0	173.4	61.0	712.3	0.0	0.0
40.00		53.7	513.6					0.0	173.4	53.7	687.0	0.0	0.0
43.88	Reinf Bottom	30.0	380.7					0.0	134.4	30.0	515.0	0.0	0.0
45.00		26.3	107.7					0.0	107.9	26.3	215.6	0.0	0.0
48.33	Bot - Section 2	29.5	311.5					0.0	319.8	29.5	631.3	0.0	0.0
50.00		24.5	259.7					0.0	159.9	24.5	419.6	0.0	0.0
52.50	Top - Section 1	29.0	380.6					0.0	239.8	29.0	620.4	0.0	0.0
55.00		42.6	154.1					0.0	239.8	42.6	393.9	0.0	0.0
60.00		39.1	294.9					0.0	479.7	39.1	774.6	0.0	0.0
62.00	Reinf. Top Reinf	27.1	113.0					0.0	191.9	27.1	304.9	0.0	0.0
65.00		42.1	164.2					0.0	287.8	42.1	452.0	0.0	0.0
70.00		50.6	259.5					0.0	479.7	50.6	739.2	0.0	0.0
75.00		34.2	241.8					0.0	479.7	34.2	721.4	0.0	0.0
77.00	Appertunance(s)	23.3	91.8	546.9	0.0	721.3	927.9	0.0	191.9	570.3	1,211.5	0.0	0.0
80.00		22.8	132.3					0.0	258.3	22.8	390.6	0.0	0.0
82.00	Top - Section 2	21.9	84.7					0.0	172.2	21.9	256.8	0.0	0.0
85.00		21.3	104.5					0.0	258.3	21.3	362.8	0.0	0.0
87.00	Appertunance(s)	20.4	66.6	351.1	0.0	0.0	1,081.4	0.0	172.2	371.5	1,320.2	0.0	0.0
90.00		12.5	95.4					0.0	253.4	12.5	348.8	0.0	0.0
90.13	Reinf. Top	18.8	3.9					0.0	10.6	18.8	14.4	0.0	0.0
95.00		25.4	143.0					0.0	113.2	25.4	256.2	0.0	0.0
97.00	Appertunance(s)	13.8	54.5	184.9	0.0	0.0	956.6	0.0	46.5	198.7	1,057.5	0.0	0.0
99.00	Top - Section 3	10.1	52.0					0.0	26.8	10.1	78.8	0.0	0.0
100.00		20.0	33.2					0.0	13.4	20.0	46.6	0.0	0.0
105.00		30.1	166.2					0.0	67.0	30.1	233.2	0.0	0.0
109.00	Appertunance(s)	16.8	133.0	346.7	0.0	0.0	257.4	0.0	53.6	363.5	443.9	0.0	0.0
110.00		20.4	33.2					0.0	13.4	20.4	46.6	0.0	0.0
115.00		23.9	166.2					0.0	67.0	23.9	233.2	0.0	0.0
117.00	Appertunance(s)	13.8	66.5	500.9	0.0	0.0	923.0	0.0	26.8	514.7	1,016.3	0.0	0.0
119.00		6.9	66.5					0.0	0.0	6.9	66.5	0.0	0.0
Totals:										3,190.10	19,376.9	0.00	0.00

Site Number: 283420

Code: ANSI/TIA-222-G

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Site Name: STONEYBROOK RD CT, CT

Engineering Number: OAA700181_C3_01

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Customer: T-MOBILE

Load Case: 1.0D + 1.0W

Serviceability 60 mph

24 Iterations

Gust Response Factor :1.10

Wind Importance Factor :1.00

Dead Load Factor :1.00

Wind Load Factor :1.00

Calculated Forces

Seg	Pu	Vu	Tu	Mu	Mu	Resultant	phi	phi	phi	phi	Total		
Elev	FY (-)	FX (-)	MY	MZ	MX	Moment	Pn	Vn	Tn	Mn	Deflect	Rotation	Ratio
(ft)	(kips)	(kips)	(ft-kips)	(ft-kips)	(ft-kips)	(ft-kips)	(kips)	(kips)	(ft-kips)	(ft-kips)	(in)	(deg)	
0.00	-19.38	-3.16	0.00	-258.93	0.00	258.93	2,813.31	1,406.66	4,820.79	2,413.98	0.00	0.00	0.114
5.00	-18.51	-3.10	0.00	-243.14	0.00	243.14	2,747.79	1,373.90	4,537.84	2,272.29	0.02	-0.04	0.114
10.00	-17.67	-3.04	0.00	-227.67	0.00	227.67	2,679.61	1,339.80	4,258.79	2,132.56	0.08	-0.08	0.113
15.00	-16.85	-2.98	0.00	-212.49	0.00	212.49	2,608.76	1,304.38	3,984.14	1,995.03	0.19	-0.12	0.113
20.00	-16.06	-2.92	0.00	-197.60	0.00	197.60	2,535.24	1,267.62	3,714.39	1,859.96	0.35	-0.17	0.113
25.00	-15.30	-2.87	0.00	-182.99	0.00	182.99	2,459.06	1,229.53	3,450.04	1,727.58	0.55	-0.22	0.112
30.00	-14.56	-2.82	0.00	-168.65	0.00	168.65	2,380.22	1,190.11	3,191.57	1,598.16	0.80	-0.27	0.112
35.00	-13.84	-2.76	0.00	-154.57	0.00	154.57	2,298.17	1,149.08	2,938.80	1,471.58	1.11	-0.32	0.111
40.00	-13.15	-2.72	0.00	-140.75	0.00	140.75	2,187.63	1,093.82	2,661.58	1,332.77	1.47	-0.37	0.112
43.88	-12.64	-2.69	0.00	-130.22	0.00	130.22	2,101.97	1,050.99	2,456.17	1,229.91	1.80	-0.42	0.112
45.00	-12.42	-2.67	0.00	-127.19	0.00	127.19	2,077.10	1,038.55	2,398.08	1,200.82	1.90	-0.43	0.066
48.33	-11.79	-2.64	0.00	-118.30	0.00	118.30	2,003.41	1,001.71	2,230.05	1,116.68	2.21	-0.46	0.065
50.00	-11.37	-2.61	0.00	-113.90	0.00	113.90	1,966.57	983.28	2,148.32	1,075.76	2.37	-0.47	0.063
52.50	-10.75	-2.58	0.00	-107.37	0.00	107.37	1,292.92	646.46	1,405.62	703.85	2.62	-0.49	0.078
55.00	-10.35	-2.54	0.00	-100.92	0.00	100.92	1,267.71	633.85	1,338.84	670.42	2.88	-0.51	0.075
60.00	-9.58	-2.50	0.00	-88.22	0.00	88.22	1,215.29	607.65	1,208.00	604.90	3.44	-0.55	0.070
62.00	-9.27	-2.47	0.00	-83.22	0.00	83.22	1,193.58	596.79	1,156.76	579.24	3.67	-0.57	0.068
62.00	-9.27	-2.47	0.00	-83.22	0.00	83.22	1,193.58	596.79	1,156.76	579.24	3.67	-0.57	0.068
65.00	-8.82	-2.43	0.00	-75.80	0.00	75.80	1,160.21	580.11	1,081.18	541.39	4.04	-0.60	0.065
70.00	-8.08	-2.38	0.00	-63.64	0.00	63.64	1,094.51	547.25	951.97	476.69	4.69	-0.64	0.059
75.00	-7.36	-2.34	0.00	-51.74	0.00	51.74	1,017.13	508.57	821.49	411.36	5.38	-0.68	0.053
77.00	-6.15	-1.76	0.00	-46.34	0.00	46.34	986.19	493.09	772.00	386.57	5.66	-0.70	0.049
80.00	-5.76	-1.73	0.00	-41.06	0.00	41.06	939.76	469.88	700.63	350.84	6.11	-0.72	0.047
82.00	-5.50	-1.71	0.00	-37.60	0.00	37.60	908.81	454.41	654.98	327.98	6.41	-0.73	0.045
82.00	-5.50	-1.71	0.00	-37.60	0.00	37.60	780.36	390.18	564.40	282.62	6.41	-0.73	0.000
85.00	-5.14	-1.68	0.00	-32.47	0.00	32.47	740.57	370.29	508.03	254.39	6.88	-0.76	0.043
87.00	-3.82	-1.30	0.00	-29.10	0.00	29.10	714.04	357.02	472.09	236.39	7.20	-0.77	0.040
90.00	-3.48	-1.28	0.00	-25.21	0.00	25.21	674.25	337.13	420.65	210.64	7.70	-0.80	0.037
90.13	-3.46	-1.26	0.00	-25.05	0.00	25.05	672.59	336.30	418.57	209.60	7.72	-0.80	0.037
90.13	-3.46	-1.26	0.00	-25.05	0.00	25.05	672.59	336.30	418.57	209.60	7.72	-0.80	0.125
95.00	-3.20	-1.24	0.00	-18.90	0.00	18.90	607.93	303.97	341.52	171.01	8.55	-0.83	0.116
97.00	-2.15	-1.02	0.00	-16.43	0.00	16.43	581.40	290.70	312.17	156.32	8.91	-0.88	0.109
99.00	-2.07	-1.01	0.00	-14.38	0.00	14.38	554.88	277.44	284.14	142.28	9.29	-0.93	0.105
99.00	-2.07	-1.01	0.00	-14.38	0.00	14.38	725.83	362.92	362.74	181.64	9.29	-0.93	0.082
100.00	-2.02	-0.99	0.00	-13.37	0.00	13.37	725.83	362.92	362.74	181.64	9.49	-0.96	0.076
105.00	-1.79	-0.96	0.00	-8.39	0.00	8.39	725.83	362.92	362.74	181.64	10.54	-1.04	0.049
109.00	-1.35	-0.59	0.00	-4.54	0.00	4.54	725.83	362.92	362.74	181.64	11.43	-1.08	0.027
110.00	-1.31	-0.57	0.00	-3.95	0.00	3.95	725.83	362.92	362.74	181.64	11.66	-1.09	0.024
115.00	-1.07	-0.54	0.00	-1.10	0.00	1.10	725.83	362.92	362.74	181.64	12.81	-1.11	0.008
117.00	-0.07	-0.01	0.00	-0.02	0.00	0.02	725.83	362.92	362.74	181.64	13.28	-1.11	0.000
119.00	0.00	-0.01	0.00	0.00	0.00	0.00	725.83	362.92	362.74	181.64	13.74	-1.11	0.000

Equivalent Lateral Forces Method Analysis

(Based on ASCE7-10 Chapters 11, 12, 15)

Spectral Response Acceleration for Short Period (S_s):	0.20
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.06
Long-Period Transition Period (T_L):	6
Importance Factor (I_E):	1.00
Site Coefficient F_a :	1.60
Site Coefficient F_v :	2.40
Response Modification Coefficient (R):	1.50
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.22
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.10
Seismic Response Coefficient (C_s):	0.04
Upper Limit C_s	0.04
Lower Limit C_s	0.03
Period based on Rayleigh Method (sec):	1.71
Redundancy Factor (p):	1.30
Seismic Force Distribution Exponent (k):	1.61
Total Unfactored Dead Load:	19.38 k
Seismic Base Shear (E):	1.00 k

Load Case (1.2 + 0.2Sds) * DL + E ELFM

Seismic Equivalent Lateral Forces Method

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
36	118.00	66	142	0.009	9	83
35	116.00	93	194	0.012	12	116
34	112.50	233	461	0.029	30	290
33	109.50	47	88	0.006	6	58
32	107.00	187	341	0.022	22	232
31	102.50	233	397	0.025	25	290
30	99.50	47	76	0.005	5	58
29	98.00	79	125	0.008	8	98
28	96.00	101	155	0.010	10	125
27	92.56	256	371	0.024	24	319
26	90.06	14	20	0.001	1	18
25	88.50	349	469	0.030	30	434
24	86.00	239	307	0.020	20	297
23	83.50	363	445	0.028	28	451
22	81.00	257	300	0.019	19	319
21	78.50	391	433	0.028	28	486
20	76.00	284	299	0.019	19	353
19	72.50	721	705	0.045	45	897
18	67.50	739	644	0.041	41	919
17	63.50	452	357	0.023	23	562
16	61.00	305	226	0.014	14	379
15	57.50	775	521	0.033	33	963
14	53.75	394	238	0.015	15	490

Site Number: 283420

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Site Name: STONEYBROOK RD CT, CT

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Customer: T-MOBILE

13	51.25	620	347	0.022	22	771
12	49.17	420	220	0.014	14	522
11	46.67	631	304	0.019	19	785
10	44.44	216	96	0.006	6	268
9	41.94	515	209	0.013	13	640
8	37.50	687	233	0.015	15	854
7	32.50	712	192	0.012	12	886
6	27.50	738	152	0.010	10	917
5	22.50	763	114	0.007	7	949
4	17.50	788	78	0.005	5	980
3	12.50	814	47	0.003	3	1,012
2	7.50	839	21	0.001	1	1,043
1	2.50	864	4	0.000	0	1,074
CCI TPX-070821	117.00	45	95	0.006	6	56
Raycap DC6-48-60-18-	117.00	66	138	0.009	9	82
Ericsson RRUS 32 B2	117.00	159	335	0.021	21	198
Ericsson RRUS-32 B30	117.00	231	487	0.031	31	287
Ericsson RRUS-11	117.00	165	348	0.022	22	205
Amphenol Antel BXA-1	117.00	38	81	0.005	5	48
CCI OPA-65R-LCUU-H6	117.00	219	462	0.029	30	272
Amphenol Antel BXA-1	109.00	38	72	0.005	5	48
CCI OPA-65R-LCUU-H6	109.00	219	412	0.026	26	272
Ericsson AIR32 B66Aa	97.00	397	618	0.039	40	493
Side Arms	97.00	560	873	0.056	56	696
RFS ATMAA1412D-1A20	87.00	39	51	0.003	3	48
Ericsson RRUS 11 B12	87.00	152	199	0.013	13	189
Ericsson RRUS 01 B2	87.00	132	173	0.011	11	164
Side Arms	87.00	560	733	0.047	47	696
Andrew SBNHH-1D65C	87.00	198	260	0.017	17	247
Alcatel-Lucent 9442	77.00	147	158	0.010	10	183
Alcatel-Lucent 9442	77.00	152	164	0.010	10	189
Amphenol Antel BXA-1	77.00	77	83	0.005	5	95
Flat Side Arm	77.00	450	484	0.031	31	559
Amphenol Antel BXA-7	77.00	102	110	0.007	7	127
		19,377	15,661	1.000	1,003	24,091

Load Case (0.9 - 0.2Sds) * DL + E ELFM

Seismic (Reduced DL) Equivalent Lateral Forces Method

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
36	118.00	66	142	0.009	9	57
35	116.00	93	194	0.012	12	80
34	112.50	233	461	0.029	30	200
33	109.50	47	88	0.006	6	40
32	107.00	187	341	0.022	22	160
31	102.50	233	397	0.025	25	200
30	99.50	47	76	0.005	5	40
29	98.00	79	125	0.008	8	68
28	96.00	101	155	0.010	10	86
27	92.56	256	371	0.024	24	219
26	90.06	14	20	0.001	1	12
25	88.50	349	469	0.030	30	299
24	86.00	239	307	0.020	20	205
23	83.50	363	445	0.028	28	311
22	81.00	257	300	0.019	19	220
21	78.50	391	433	0.028	28	335
20	76.00	284	299	0.019	19	243
19	72.50	721	705	0.045	45	618
18	67.50	739	644	0.041	41	633
17	63.50	452	357	0.023	23	387

Site Number: 283420

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Engineering Number:OAA700181_C3_01

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Customer: T-MOBILE

16	61.00	305	226	0.014	14	261
15	57.50	775	521	0.033	33	664
14	53.75	394	238	0.015	15	337
13	51.25	620	347	0.022	22	531
12	49.17	420	220	0.014	14	359
11	46.67	631	304	0.019	19	541
10	44.44	216	96	0.006	6	185
9	41.94	515	209	0.013	13	441
8	37.50	687	233	0.015	15	589
7	32.50	712	192	0.012	12	610
6	27.50	738	152	0.010	10	632
5	22.50	763	114	0.007	7	654
4	17.50	788	78	0.005	5	675
3	12.50	814	47	0.003	3	697
2	7.50	839	21	0.001	1	719
1	2.50	864	4	0.000	0	740
CCI TPX-070821	117.00	45	95	0.006	6	39
Raycap DC6-48-60-18-	117.00	66	138	0.009	9	56
Ericsson RRUS 32 B2	117.00	159	335	0.021	21	136
Ericsson RRUS-32 B30	117.00	231	487	0.031	31	198
Ericsson RRUS-11	117.00	165	348	0.022	22	141
Amphenol Antel BXA-1	117.00	38	81	0.005	5	33
CCI OPA-65R-LCUU-H6	117.00	219	462	0.029	30	188
Amphenol Antel BXA-1	109.00	38	72	0.005	5	33
CCI OPA-65R-LCUU-H6	109.00	219	412	0.026	26	188
Ericsson AIR32 B66Aa	97.00	397	618	0.039	40	340
Side Arms	97.00	560	873	0.056	56	480
RFS ATMAA1412D-1A20	87.00	39	51	0.003	3	33
Ericsson RRUS 11 B12	87.00	152	199	0.013	13	130
Ericsson RRUS 01 B2	87.00	132	173	0.011	11	113
Side Arms	87.00	560	733	0.047	47	480
Andrew SBNHH-1D65C	87.00	198	260	0.017	17	170
Alcatel-Lucent 9442	77.00	147	158	0.010	10	126
Alcatel-Lucent 9442	77.00	152	164	0.010	10	130
Amphenol Antel BXA-1	77.00	77	83	0.005	5	66
Flat Side Arm	77.00	450	484	0.031	31	386
Amphenol Antel BXA-7	77.00	102	110	0.007	7	87
		19,377	15,661	1.000	1,003	16,600

Load Case (1.2 + 0.2Sds) * DL + E ELFM Seismic Equivalent Lateral Forces Method

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-23.02	-1.00	0.00	-85.71	0.00	85.71	2,813.31	1,406.66	4,820.79	2,413.98	0.00	0.00	0.044
5.00	-21.97	-1.01	0.00	-80.68	0.00	80.68	2,747.79	1,373.90	4,537.84	2,272.29	0.01	-0.01	0.044
10.00	-20.96	-1.01	0.00	-75.64	0.00	75.64	2,679.61	1,339.80	4,258.79	2,132.56	0.03	-0.03	0.043
15.00	-19.98	-1.01	0.00	-70.59	0.00	70.59	2,608.76	1,304.38	3,984.14	1,995.03	0.06	-0.04	0.043
20.00	-19.03	-1.01	0.00	-65.54	0.00	65.54	2,535.24	1,267.62	3,714.39	1,859.96	0.11	-0.06	0.043
25.00	-18.12	-1.00	0.00	-60.51	0.00	60.51	2,459.06	1,229.53	3,450.04	1,727.58	0.18	-0.07	0.042
30.00	-17.23	-0.99	0.00	-55.50	0.00	55.50	2,380.22	1,190.11	3,191.57	1,598.16	0.27	-0.09	0.042
35.00	-16.37	-0.98	0.00	-50.54	0.00	50.54	2,298.17	1,149.08	2,938.80	1,471.58	0.37	-0.11	0.041
40.00	-15.73	-0.97	0.00	-45.63	0.00	45.63	2,187.63	1,093.82	2,661.58	1,332.77	0.49	-0.12	0.041
43.88	-15.47	-0.97	0.00	-41.87	0.00	41.87	2,101.97	1,050.99	2,456.17	1,229.91	0.59	-0.14	0.041
45.00	-14.68	-0.95	0.00	-40.78	0.00	40.78	2,077.10	1,038.55	2,398.08	1,200.82	0.63	-0.14	0.024
48.33	-14.16	-0.93	0.00	-37.62	0.00	37.62	2,003.41	1,001.71	2,230.05	1,116.68	0.73	-0.15	0.024
50.00	-13.39	-0.91	0.00	-36.06	0.00	36.06	1,966.57	983.28	2,148.32	1,075.76	0.78	-0.15	0.023
52.50	-12.90	-0.90	0.00	-33.79	0.00	33.79	1,292.92	646.46	1,405.62	703.85	0.87	-0.16	0.028
55.00	-11.94	-0.86	0.00	-31.55	0.00	31.55	1,267.71	633.85	1,338.84	670.42	0.95	-0.17	0.027
60.00	-11.56	-0.85	0.00	-27.25	0.00	27.25	1,215.29	607.65	1,208.00	604.90	1.13	-0.18	0.025
62.00	-10.99	-0.82	0.00	-25.55	0.00	25.55	1,193.58	596.79	1,156.76	579.24	1.21	-0.19	0.024
62.00	-10.99	-0.82	0.00	-25.55	0.00	25.55	1,193.58	596.79	1,156.76	579.24	1.21	-0.19	0.024
65.00	-10.07	-0.78	0.00	-23.08	0.00	23.08	1,160.21	580.11	1,081.18	541.39	1.33	-0.19	0.023
70.00	-9.18	-0.74	0.00	-19.17	0.00	19.17	1,094.51	547.25	951.97	476.69	1.54	-0.21	0.021
75.00	-8.83	-0.72	0.00	-15.50	0.00	15.50	1,017.13	508.57	821.49	411.36	1.76	-0.22	0.019
77.00	-7.19	-0.62	0.00	-14.06	0.00	14.06	986.19	493.09	772.00	386.57	1.85	-0.22	0.017
80.00	-6.87	-0.60	0.00	-12.21	0.00	12.21	939.76	469.88	700.63	350.84	2.00	-0.23	0.016
82.00	-6.42	-0.57	0.00	-11.01	0.00	11.01	908.81	454.41	654.98	327.98	2.09	-0.24	0.015
82.00	-6.42	-0.57	0.00	-11.01	0.00	11.01	780.36	390.18	564.40	282.62	2.09	-0.24	0.000
85.00	-6.12	-0.55	0.00	-9.30	0.00	9.30	740.57	370.29	508.03	254.39	2.24	-0.24	0.015
87.00	-4.34	-0.42	0.00	-8.20	0.00	8.20	714.04	357.02	472.09	236.39	2.35	-0.25	0.013
90.00	-4.32	-0.42	0.00	-6.94	0.00	6.94	674.25	337.13	420.65	210.64	2.50	-0.25	0.012
90.13	-4.00	-0.40	0.00	-6.88	0.00	6.88	672.59	336.30	418.57	209.60	2.51	-0.25	0.012
90.13	-4.00	-0.40	0.00	-6.88	0.00	6.88	672.59	336.30	418.57	209.60	2.51	-0.25	0.039
95.00	-3.88	-0.39	0.00	-4.96	0.00	4.96	607.93	303.97	341.52	171.01	2.77	-0.26	0.035
97.00	-2.59	-0.28	0.00	-4.18	0.00	4.18	581.40	290.70	312.17	156.32	2.88	-0.28	0.031
99.00	-2.53	-0.27	0.00	-3.63	0.00	3.63	554.88	277.44	284.14	142.28	3.00	-0.29	0.030
99.00	-2.53	-0.27	0.00	-3.63	0.00	3.63	725.83	362.92	362.74	181.64	3.00	-0.29	0.023
100.00	-2.24	-0.25	0.00	-3.36	0.00	3.36	725.83	362.92	362.74	181.64	3.06	-0.29	0.022
105.00	-2.01	-0.22	0.00	-2.13	0.00	2.13	725.83	362.92	362.74	181.64	3.38	-0.32	0.014
109.00	-1.64	-0.18	0.00	-1.23	0.00	1.23	725.83	362.92	362.74	181.64	3.65	-0.33	0.009
110.00	-1.35	-0.15	0.00	-1.05	0.00	1.05	725.83	362.92	362.74	181.64	3.72	-0.33	0.008
115.00	-1.23	-0.14	0.00	-0.28	0.00	0.28	725.83	362.92	362.74	181.64	4.07	-0.33	0.003
117.00	0.00	0.00	0.00	0.00	0.00	0.00	725.83	362.92	362.74	181.64	4.21	-0.33	0.000
119.00	0.00	0.00	0.00	0.00	0.00	0.00	725.83	362.92	362.74	181.64	4.35	-0.33	0.000

Site Number: 283420

Code: ANSI/TIA-222-G

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Site Name: STONEYBROOK RD CT, CT

Engineering Number: OAA700181_C3_01

4/14/2017 6:42:49 PM

Customer: T-MOBILE

Load Case (0.9 - 0.2Sds) * DL + E ELMF

Seismic (Reduced DL) Equivalent Lateral Forces Method

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-15.86	-1.00	0.00	-84.84	0.00	84.84	2,813.31	1,406.66	4,820.79	2,413.98	0.00	0.00	0.041
5.00	-15.14	-1.01	0.00	-79.82	0.00	79.82	2,747.79	1,373.90	4,537.84	2,272.29	0.01	-0.01	0.041
10.00	-14.44	-1.01	0.00	-74.79	0.00	74.79	2,679.61	1,339.80	4,258.79	2,132.56	0.03	-0.03	0.040
15.00	-13.77	-1.00	0.00	-69.76	0.00	69.76	2,608.76	1,304.38	3,984.14	1,995.03	0.06	-0.04	0.040
20.00	-13.11	-1.00	0.00	-64.73	0.00	64.73	2,535.24	1,267.62	3,714.39	1,859.96	0.11	-0.06	0.040
25.00	-12.48	-0.99	0.00	-59.73	0.00	59.73	2,459.06	1,229.53	3,450.04	1,727.58	0.18	-0.07	0.040
30.00	-11.87	-0.98	0.00	-54.77	0.00	54.77	2,380.22	1,190.11	3,191.57	1,598.16	0.26	-0.09	0.039
35.00	-11.28	-0.97	0.00	-49.85	0.00	49.85	2,298.17	1,149.08	2,938.80	1,471.58	0.36	-0.10	0.039
40.00	-10.84	-0.96	0.00	-44.99	0.00	44.99	2,187.63	1,093.82	2,661.58	1,332.77	0.48	-0.12	0.039
43.88	-10.66	-0.96	0.00	-41.27	0.00	41.27	2,101.97	1,050.99	2,456.17	1,229.91	0.59	-0.14	0.039
45.00	-10.12	-0.94	0.00	-40.20	0.00	40.20	2,077.10	1,038.55	2,398.08	1,200.82	0.62	-0.14	0.023
48.33	-9.76	-0.92	0.00	-37.08	0.00	37.08	2,003.41	1,001.71	2,230.05	1,116.68	0.72	-0.15	0.022
50.00	-9.22	-0.90	0.00	-35.55	0.00	35.55	1,966.57	983.28	2,148.32	1,075.76	0.77	-0.15	0.021
52.50	-8.89	-0.88	0.00	-33.30	0.00	33.30	1,292.92	646.46	1,405.62	703.85	0.86	-0.16	0.026
55.00	-8.22	-0.85	0.00	-31.09	0.00	31.09	1,267.71	633.85	1,338.84	670.42	0.94	-0.16	0.025
60.00	-7.96	-0.84	0.00	-26.84	0.00	26.84	1,215.29	607.65	1,208.00	604.90	1.12	-0.18	0.023
62.00	-7.57	-0.81	0.00	-25.17	0.00	25.17	1,193.58	596.79	1,156.76	579.24	1.19	-0.18	0.023
62.00	-7.57	-0.81	0.00	-25.17	0.00	25.17	1,193.58	596.79	1,156.76	579.24	1.19	-0.18	0.023
65.00	-6.94	-0.77	0.00	-22.74	0.00	22.74	1,160.21	580.11	1,081.18	541.39	1.31	-0.19	0.021
70.00	-6.32	-0.72	0.00	-18.88	0.00	18.88	1,094.51	547.25	951.97	476.69	1.52	-0.20	0.019
75.00	-6.08	-0.71	0.00	-15.26	0.00	15.26	1,017.13	508.57	821.49	411.36	1.74	-0.22	0.017
77.00	-4.95	-0.61	0.00	-13.85	0.00	13.85	986.19	493.09	772.00	386.57	1.83	-0.22	0.016
80.00	-4.73	-0.59	0.00	-12.02	0.00	12.02	939.76	469.88	700.63	350.84	1.97	-0.23	0.015
82.00	-4.42	-0.56	0.00	-10.84	0.00	10.84	908.81	454.41	654.98	327.98	2.07	-0.23	0.014
82.00	-4.42	-0.56	0.00	-10.84	0.00	10.84	780.36	390.18	564.40	282.62	2.07	-0.23	0.000
85.00	-4.22	-0.54	0.00	-9.16	0.00	9.16	740.57	370.29	508.03	254.39	2.21	-0.24	0.014
87.00	-2.99	-0.42	0.00	-8.08	0.00	8.08	714.04	357.02	472.09	236.39	2.32	-0.24	0.012
90.00	-2.98	-0.41	0.00	-6.83	0.00	6.83	674.25	337.13	420.65	210.64	2.47	-0.25	0.011
90.13	-2.76	-0.39	0.00	-6.78	0.00	6.78	672.59	336.30	418.57	209.60	2.48	-0.25	0.011
90.13	-2.76	-0.39	0.00	-6.78	0.00	6.78	672.59	336.30	418.57	209.60	2.48	-0.25	0.036
95.00	-2.67	-0.38	0.00	-4.88	0.00	4.88	607.93	303.97	341.52	171.01	2.74	-0.26	0.033
97.00	-1.79	-0.27	0.00	-4.12	0.00	4.12	581.40	290.70	312.17	156.32	2.85	-0.27	0.029
99.00	-1.75	-0.27	0.00	-3.57	0.00	3.57	554.88	277.44	284.14	142.28	2.96	-0.28	0.028
99.00	-1.75	-0.27	0.00	-3.57	0.00	3.57	725.83	362.92	362.74	181.64	2.96	-0.28	0.022
100.00	-1.55	-0.24	0.00	-3.30	0.00	3.30	725.83	362.92	362.74	181.64	3.02	-0.29	0.020
105.00	-1.39	-0.22	0.00	-2.09	0.00	2.09	725.83	362.92	362.74	181.64	3.34	-0.31	0.013
109.00	-1.13	-0.18	0.00	-1.21	0.00	1.21	725.83	362.92	362.74	181.64	3.61	-0.32	0.008
110.00	-0.93	-0.15	0.00	-1.03	0.00	1.03	725.83	362.92	362.74	181.64	3.67	-0.32	0.007
115.00	-0.85	-0.14	0.00	-0.28	0.00	0.28	725.83	362.92	362.74	181.64	4.02	-0.33	0.003
117.00	0.00	0.00	0.00	0.00	0.00	0.00	725.83	362.92	362.74	181.64	4.15	-0.33	0.000
119.00	0.00	0.00	0.00	0.00	0.00	0.00	725.83	362.92	362.74	181.64	4.29	-0.33	0.000

Equivalent Modal Forces Analysis

(Based on ASCE7-10 Chapters 11, 12 & 15 and ANSI/TIA-G, section 2.7)

Spectral Response Acceleration for Short Period (S_s):	0.20
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.06
Importance Factor (I_E):	1.00
Site Coefficient F_a :	1.60
Site Coefficient F_v :	2.40
Response Modification Coefficient (R):	1.50
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.22
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.10
Period Based on Rayleigh Method (sec):	1.71
Redundancy Factor (p):	1.30

Load Case (1.2 + 0.2Sds) * DL + E EMAM Seismic Equivalent Modal Analysis Method

Segment	Height Above Base (ft)	Weight (lb)	a	b	c	Saz	Horizontal Force (lb)	Vertical Force (lb)
36	118.00	66	1.858	1.817	1.081	0.394	23	83
35	116.00	93	1.796	1.520	0.970	0.351	28	116
34	112.50	233	1.689	1.082	0.798	0.280	57	290
33	109.50	47	1.600	0.779	0.670	0.226	9	58
32	107.00	187	1.528	0.573	0.577	0.185	30	232
31	102.50	233	1.402	0.288	0.434	0.120	24	290
30	99.50	47	1.321	0.151	0.355	0.083	3	58
29	98.00	79	1.282	0.096	0.320	0.067	5	98
28	96.00	101	1.230	0.035	0.278	0.047	4	125
27	92.56	256	1.144	-0.042	0.215	0.018	4	319
26	90.06	14	1.083	-0.079	0.176	0.001	0	18
25	88.50	349	1.045	-0.096	0.155	-0.007	-2	434
24	86.00	239	0.987	-0.113	0.125	-0.018	-4	297
23	83.50	363	0.931	-0.121	0.100	-0.026	-8	451
22	81.00	257	0.876	-0.121	0.078	-0.030	-7	319
21	78.50	391	0.822	-0.116	0.060	-0.031	-11	486
20	76.00	284	0.771	-0.106	0.046	-0.029	-7	353
19	72.50	721	0.702	-0.087	0.030	-0.023	-14	897
18	67.50	739	0.608	-0.056	0.015	-0.007	-4	919
17	63.50	452	0.538	-0.030	0.009	0.008	3	562
16	61.00	305	0.497	-0.015	0.007	0.017	5	379
15	57.50	775	0.441	0.005	0.006	0.029	19	963
14	53.75	394	0.386	0.023	0.007	0.039	13	490
13	51.25	620	0.351	0.033	0.009	0.044	24	771
12	49.17	420	0.323	0.040	0.010	0.047	17	522
11	46.67	631	0.291	0.047	0.013	0.050	28	785
10	44.44	216	0.264	0.053	0.016	0.052	10	268
9	41.94	515	0.235	0.058	0.019	0.053	24	640
8	37.50	687	0.188	0.064	0.025	0.054	32	854
7	32.50	712	0.141	0.069	0.031	0.052	32	886
6	27.50	738	0.101	0.071	0.037	0.051	32	917
5	22.50	763	0.068	0.072	0.041	0.049	32	949
4	17.50	788	0.041	0.070	0.042	0.046	32	980
3	12.50	814	0.021	0.065	0.038	0.042	30	1,012

Site Number: 283420

Code: ANSI/TIA-222-G

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Site Name: STONEYBROOK RD CT, CT

Engineering Number: OAA700181_C3_01

4/14/2017 6:42:49 PM

Customer: T-MOBILE

2	7.50	839	0.008	0.051	0.029	0.034	25	1,043
1	2.50	864	0.001	0.022	0.012	0.016	12	1,074
CCI TPX-070821	117.00	45	1.827	1.664	1.024	0.372	15	56
Raycap DC6-48-60-18-	117.00	66	1.827	1.664	1.024	0.372	21	82
Ericsson RRUS 32 B2	117.00	159	1.827	1.664	1.024	0.372	51	198
Ericsson RRUS-32 B30	117.00	231	1.827	1.664	1.024	0.372	75	287
Ericsson RRUS-11	117.00	165	1.827	1.664	1.024	0.372	53	205
Amphenol Antel BXA-1	117.00	38	1.827	1.664	1.024	0.372	12	48
CCI OPA-65R-LCUU-H6	117.00	219	1.827	1.664	1.024	0.372	71	272
Amphenol Antel BXA-1	109.00	38	1.586	0.735	0.651	0.217	7	48
CCI OPA-65R-LCUU-H6	109.00	219	1.586	0.735	0.651	0.217	41	272
Ericsson AIR32 B66Aa	97.00	397	1.256	0.064	0.298	0.056	19	493
Side Arms	97.00	560	1.256	0.064	0.298	0.056	27	696
RFS ATMAA1412D-1A20	87.00	39	1.010	-0.107	0.136	-0.014	0	48
Ericsson RRUS 11 B12	87.00	152	1.010	-0.107	0.136	-0.014	-2	189
Ericsson RRUS 01 B2	87.00	132	1.010	-0.107	0.136	-0.014	-2	164
Side Arms	87.00	560	1.010	-0.107	0.136	-0.014	-7	696
Andrew SBNHH-1D65C	87.00	198	1.010	-0.107	0.136	-0.014	-2	247
Alcatel-Lucent 9442	77.00	147	0.791	-0.110	0.051	-0.030	-4	183
Alcatel-Lucent 9442	77.00	152	0.791	-0.110	0.051	-0.030	-4	189
Amphenol Antel BXA-1	77.00	77	0.791	-0.110	0.051	-0.030	-2	95
Flat Side Arm	77.00	450	0.791	-0.110	0.051	-0.030	-12	559
Amphenol Antel BXA-7	77.00	102	0.791	-0.110	0.051	-0.030	-3	127
		19,377	54.045	18.259	16.844	5.214	855	24,091

Load Case (0.9 - 0.2Sds) * DL + E EMAM Seismic (Reduced DL) Equivalent Modal Analysis Method

Segment	Height Above Base (ft)	Weight (lb)	a	b	c	Saz	Horizontal Force (lb)	Vertical Force (lb)
36	118.00	66	1.858	1.817	1.081	0.394	23	57
35	116.00	93	1.796	1.520	0.970	0.351	28	80
34	112.50	233	1.689	1.082	0.798	0.280	57	200
33	109.50	47	1.600	0.779	0.670	0.226	9	40
32	107.00	187	1.528	0.573	0.577	0.185	30	160
31	102.50	233	1.402	0.288	0.434	0.120	24	200
30	99.50	47	1.321	0.151	0.355	0.083	3	40
29	98.00	79	1.282	0.096	0.320	0.067	5	68
28	96.00	101	1.230	0.035	0.278	0.047	4	86
27	92.56	256	1.144	-0.042	0.215	0.018	4	219
26	90.06	14	1.083	-0.079	0.176	0.001	0	12
25	88.50	349	1.045	-0.096	0.155	-0.007	-2	299
24	86.00	239	0.987	-0.113	0.125	-0.018	-4	205
23	83.50	363	0.931	-0.121	0.100	-0.026	-8	311
22	81.00	257	0.876	-0.121	0.078	-0.030	-7	220
21	78.50	391	0.822	-0.116	0.060	-0.031	-11	335
20	76.00	284	0.771	-0.106	0.046	-0.029	-7	243
19	72.50	721	0.702	-0.087	0.030	-0.023	-14	618
18	67.50	739	0.608	-0.056	0.015	-0.007	-4	633
17	63.50	452	0.538	-0.030	0.009	0.008	3	387
16	61.00	305	0.497	-0.015	0.007	0.017	5	261
15	57.50	775	0.441	0.005	0.006	0.029	19	664
14	53.75	394	0.386	0.023	0.007	0.039	13	337
13	51.25	620	0.351	0.033	0.009	0.044	24	531
12	49.17	420	0.323	0.040	0.010	0.047	17	359
11	46.67	631	0.291	0.047	0.013	0.050	28	541
10	44.44	216	0.264	0.053	0.016	0.052	10	185
9	41.94	515	0.235	0.058	0.019	0.053	24	441
8	37.50	687	0.188	0.064	0.025	0.054	32	589
7	32.50	712	0.141	0.069	0.031	0.052	32	610

Site Number: 283420

Code: ANSI/TIA-222-G

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Site Name: STONEYBROOK RD CT, CT

Engineering Number: OAA700181_C3_01

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Customer: T-MOBILE

6	27.50	738	0.101	0.071	0.037	0.051	32	632
5	22.50	763	0.068	0.072	0.041	0.049	32	654
4	17.50	788	0.041	0.070	0.042	0.046	32	675
3	12.50	814	0.021	0.065	0.038	0.042	30	697
2	7.50	839	0.008	0.051	0.029	0.034	25	719
1	2.50	864	0.001	0.022	0.012	0.016	12	740
CCI TPX-070821	117.00	45	1.827	1.664	1.024	0.372	15	39
Raycap DC6-48-60-18-	117.00	66	1.827	1.664	1.024	0.372	21	56
Ericsson RRUS 32 B2	117.00	159	1.827	1.664	1.024	0.372	51	136
Ericsson RRUS-32 B30	117.00	231	1.827	1.664	1.024	0.372	75	198
Ericsson RRUS-11	117.00	165	1.827	1.664	1.024	0.372	53	141
Amphenol Antel BXA-1	117.00	38	1.827	1.664	1.024	0.372	12	33
CCI OPA-65R-LCUU-H6	117.00	219	1.827	1.664	1.024	0.372	71	188
Amphenol Antel BXA-1	109.00	38	1.586	0.735	0.651	0.217	7	33
CCI OPA-65R-LCUU-H6	109.00	219	1.586	0.735	0.651	0.217	41	188
Ericsson AIR32 B66Aa	97.00	397	1.256	0.064	0.298	0.056	19	340
Side Arms	97.00	560	1.256	0.064	0.298	0.056	27	480
RFS ATMAA1412D-1A20	87.00	39	1.010	-0.107	0.136	-0.014	0	33
Ericsson RRUS 11 B12	87.00	152	1.010	-0.107	0.136	-0.014	-2	130
Ericsson RRUS 01 B2	87.00	132	1.010	-0.107	0.136	-0.014	-2	113
Side Arms	87.00	560	1.010	-0.107	0.136	-0.014	-7	480
Andrew SBNHH-1D65C	87.00	198	1.010	-0.107	0.136	-0.014	-2	170
Alcatel-Lucent 9442	77.00	147	0.791	-0.110	0.051	-0.030	-4	126
Alcatel-Lucent 9442	77.00	152	0.791	-0.110	0.051	-0.030	-4	130
Amphenol Antel BXA-1	77.00	77	0.791	-0.110	0.051	-0.030	-2	66
Flat Side Arm	77.00	450	0.791	-0.110	0.051	-0.030	-12	386
Amphenol Antel BXA-7	77.00	102	0.791	-0.110	0.051	-0.030	-3	87
		19,377	54.045	18.259	16.844	5.214	855	16,600

Load Case (1.2 + 0.2Sds) * DL + E EMAM Seismic Equivalent Modal Analysis Method

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-23.02	-0.84	0.00	-71.27	0.00	71.27	2,813.31	1,406.66	4,820.79	2,413.98	0.00	0.00	0.038
5.00	-21.97	-0.82	0.00	-67.05	0.00	67.05	2,747.79	1,373.90	4,537.84	2,272.29	0.01	-0.01	0.038
10.00	-20.96	-0.80	0.00	-62.93	0.00	62.93	2,679.61	1,339.80	4,258.79	2,132.56	0.02	-0.02	0.037
15.00	-19.98	-0.77	0.00	-58.95	0.00	58.95	2,608.76	1,304.38	3,984.14	1,995.03	0.05	-0.03	0.037
20.00	-19.03	-0.74	0.00	-55.10	0.00	55.10	2,535.24	1,267.62	3,714.39	1,859.96	0.10	-0.05	0.037
25.00	-18.12	-0.71	0.00	-51.39	0.00	51.39	2,459.06	1,229.53	3,450.04	1,727.58	0.15	-0.06	0.037
30.00	-17.23	-0.68	0.00	-47.83	0.00	47.83	2,380.22	1,190.11	3,191.57	1,598.16	0.22	-0.07	0.037
35.00	-16.38	-0.65	0.00	-44.41	0.00	44.41	2,298.17	1,149.08	2,938.80	1,471.58	0.31	-0.09	0.037
40.00	-15.74	-0.63	0.00	-41.14	0.00	41.14	2,187.63	1,093.82	2,661.58	1,332.77	0.41	-0.11	0.038
43.88	-15.47	-0.63	0.00	-38.69	0.00	38.69	2,101.97	1,050.99	2,456.17	1,229.91	0.50	-0.12	0.039
45.00	-14.68	-0.60	0.00	-37.98	0.00	37.98	2,077.10	1,038.55	2,398.08	1,200.82	0.53	-0.12	0.023
48.33	-14.16	-0.58	0.00	-35.99	0.00	35.99	2,003.41	1,001.71	2,230.05	1,116.68	0.62	-0.13	0.023
50.00	-13.39	-0.56	0.00	-35.02	0.00	35.02	1,966.57	983.28	2,148.32	1,075.76	0.66	-0.13	0.022
52.50	-12.90	-0.54	0.00	-33.63	0.00	33.63	1,292.92	646.46	1,405.62	703.85	0.73	-0.14	0.028
55.00	-11.94	-0.52	0.00	-32.27	0.00	32.27	1,267.71	633.85	1,338.84	670.42	0.81	-0.15	0.027
60.00	-11.56	-0.52	0.00	-29.65	0.00	29.65	1,215.29	607.65	1,208.00	604.90	0.97	-0.16	0.027
62.00	-11.00	-0.52	0.00	-28.61	0.00	28.61	1,193.58	596.79	1,156.76	579.24	1.04	-0.17	0.027
62.00	-11.00	-0.52	0.00	-28.61	0.00	28.61	1,193.58	596.79	1,156.76	579.24	1.04	-0.17	0.027
65.00	-10.08	-0.52	0.00	-27.05	0.00	27.05	1,160.21	580.11	1,081.18	541.39	1.15	-0.17	0.026
70.00	-9.18	-0.53	0.00	-24.45	0.00	24.45	1,094.51	547.25	951.97	476.69	1.34	-0.19	0.025
75.00	-8.83	-0.54	0.00	-21.77	0.00	21.77	1,017.13	508.57	821.49	411.36	1.55	-0.21	0.025
77.00	-7.19	-0.57	0.00	-20.69	0.00	20.69	986.19	493.09	772.00	386.57	1.63	-0.21	0.024
80.00	-6.87	-0.58	0.00	-18.97	0.00	18.97	939.76	469.88	700.63	350.84	1.77	-0.22	0.023
82.00	-6.42	-0.59	0.00	-17.81	0.00	17.81	908.81	454.41	654.98	327.98	1.87	-0.23	0.023
82.00	-6.42	-0.59	0.00	-17.81	0.00	17.81	780.36	390.18	564.40	282.62	1.87	-0.23	0.000
85.00	-6.12	-0.59	0.00	-16.05	0.00	16.05	740.57	370.29	508.03	254.39	2.02	-0.24	0.023
87.00	-4.34	-0.60	0.00	-14.87	0.00	14.87	714.04	357.02	472.09	236.39	2.12	-0.25	0.022
90.00	-4.32	-0.60	0.00	-13.07	0.00	13.07	674.25	337.13	420.65	210.64	2.28	-0.26	0.020
90.13	-4.00	-0.59	0.00	-13.00	0.00	13.00	672.59	336.30	418.57	209.60	2.29	-0.26	0.020
90.13	-4.00	-0.59	0.00	-13.00	0.00	13.00	672.59	336.30	418.57	209.60	2.29	-0.26	0.068
95.00	-3.88	-0.59	0.00	-10.10	0.00	10.10	607.93	303.97	341.52	171.01	2.57	-0.28	0.065
97.00	-2.59	-0.53	0.00	-8.92	0.00	8.92	581.40	290.70	312.17	156.32	2.69	-0.31	0.062
99.00	-2.53	-0.53	0.00	-7.85	0.00	7.85	554.88	277.44	284.14	142.28	2.83	-0.34	0.060
99.00	-2.53	-0.53	0.00	-7.85	0.00	7.85	725.83	362.92	362.74	181.64	2.83	-0.34	0.047
100.00	-2.24	-0.51	0.00	-7.32	0.00	7.32	725.83	362.92	362.74	181.64	2.90	-0.35	0.043
105.00	-2.01	-0.48	0.00	-4.78	0.00	4.78	725.83	362.92	362.74	181.64	3.29	-0.40	0.029
109.00	-1.63	-0.42	0.00	-2.87	0.00	2.87	725.83	362.92	362.74	181.64	3.64	-0.42	0.018
110.00	-1.34	-0.36	0.00	-2.45	0.00	2.45	725.83	362.92	362.74	181.64	3.73	-0.42	0.015
115.00	-1.23	-0.33	0.00	-0.66	0.00	0.66	725.83	362.92	362.74	181.64	4.18	-0.44	0.005
117.00	0.00	0.00	0.00	0.00	0.00	0.00	725.83	362.92	362.74	181.64	4.36	-0.44	0.000
119.00	0.00	0.00	0.00	0.00	0.00	0.00	725.83	362.92	362.74	181.64	4.55	-0.44	0.000

Site Number: 283420

Code: ANSI/TIA-222-G

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Site Name: STONEYBROOK RD CT, CT

Engineering Number: OAA700181_C3_01

4/14/2017 6:42:49 PM

Customer: T-MOBILE

Load Case (0.9 - 0.2Sds) * DL + E EMAM Seismic (Reduced DL) Equivalent Modal Analysis Method

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-15.86	-0.84	0.00	-70.47	0.00	70.47	2,813.31	1,406.66	4,820.79	2,413.98	0.00	0.00	0.035
5.00	-15.14	-0.82	0.00	-66.25	0.00	66.25	2,747.79	1,373.90	4,537.84	2,272.29	0.01	-0.01	0.035
10.00	-14.44	-0.79	0.00	-62.14	0.00	62.14	2,679.61	1,339.80	4,258.79	2,132.56	0.02	-0.02	0.035
15.00	-13.77	-0.77	0.00	-58.17	0.00	58.17	2,608.76	1,304.38	3,984.14	1,995.03	0.05	-0.03	0.034
20.00	-13.11	-0.74	0.00	-54.34	0.00	54.34	2,535.24	1,267.62	3,714.39	1,859.96	0.09	-0.05	0.034
25.00	-12.48	-0.71	0.00	-50.67	0.00	50.67	2,459.06	1,229.53	3,450.04	1,727.58	0.15	-0.06	0.034
30.00	-11.87	-0.68	0.00	-47.14	0.00	47.14	2,380.22	1,190.11	3,191.57	1,598.16	0.22	-0.07	0.034
35.00	-11.28	-0.65	0.00	-43.76	0.00	43.76	2,298.17	1,149.08	2,938.80	1,471.58	0.30	-0.09	0.035
40.00	-10.84	-0.62	0.00	-40.53	0.00	40.53	2,187.63	1,093.82	2,661.58	1,332.77	0.40	-0.10	0.035
43.88	-10.66	-0.62	0.00	-38.11	0.00	38.11	2,101.97	1,050.99	2,456.17	1,229.91	0.49	-0.12	0.036
45.00	-10.12	-0.59	0.00	-37.42	0.00	37.42	2,077.10	1,038.55	2,398.08	1,200.82	0.52	-0.12	0.021
48.33	-9.76	-0.57	0.00	-35.46	0.00	35.46	2,003.41	1,001.71	2,230.05	1,116.68	0.61	-0.13	0.021
50.00	-9.23	-0.55	0.00	-34.51	0.00	34.51	1,966.57	983.28	2,148.32	1,075.76	0.65	-0.13	0.021
52.50	-8.89	-0.53	0.00	-33.14	0.00	33.14	1,292.92	646.46	1,405.62	703.85	0.73	-0.14	0.026
55.00	-8.22	-0.51	0.00	-31.81	0.00	31.81	1,267.71	633.85	1,338.84	670.42	0.80	-0.14	0.026
60.00	-7.96	-0.51	0.00	-29.24	0.00	29.24	1,215.29	607.65	1,208.00	604.90	0.96	-0.16	0.025
62.00	-7.58	-0.51	0.00	-28.22	0.00	28.22	1,193.58	596.79	1,156.76	579.24	1.02	-0.16	0.025
62.00	-7.58	-0.51	0.00	-28.22	0.00	28.22	1,193.58	596.79	1,156.76	579.24	1.02	-0.16	0.025
65.00	-6.94	-0.51	0.00	-26.70	0.00	26.70	1,160.21	580.11	1,081.18	541.39	1.13	-0.17	0.024
70.00	-6.32	-0.52	0.00	-24.15	0.00	24.15	1,094.51	547.25	951.97	476.69	1.32	-0.19	0.024
75.00	-6.08	-0.53	0.00	-21.52	0.00	21.52	1,017.13	508.57	821.49	411.36	1.52	-0.20	0.023
77.00	-4.95	-0.56	0.00	-20.46	0.00	20.46	986.19	493.09	772.00	386.57	1.61	-0.21	0.023
80.00	-4.73	-0.57	0.00	-18.77	0.00	18.77	939.76	469.88	700.63	350.84	1.75	-0.22	0.022
82.00	-4.42	-0.58	0.00	-17.62	0.00	17.62	908.81	454.41	654.98	327.98	1.84	-0.23	0.022
82.00	-4.42	-0.58	0.00	-17.62	0.00	17.62	780.36	390.18	564.40	282.62	1.84	-0.23	0.000
85.00	-4.22	-0.58	0.00	-15.89	0.00	15.89	740.57	370.29	508.03	254.39	1.99	-0.24	0.022
87.00	-2.99	-0.59	0.00	-14.73	0.00	14.73	714.04	357.02	472.09	236.39	2.09	-0.25	0.021
90.00	-2.98	-0.59	0.00	-12.95	0.00	12.95	674.25	337.13	420.65	210.64	2.25	-0.26	0.020
90.13	-2.76	-0.59	0.00	-12.87	0.00	12.87	672.59	336.30	418.57	209.60	2.26	-0.26	0.019
90.13	-2.76	-0.59	0.00	-12.87	0.00	12.87	672.59	336.30	418.57	209.60	2.26	-0.26	0.066
95.00	-2.67	-0.59	0.00	-10.01	0.00	10.01	607.93	303.97	341.52	171.01	2.53	-0.28	0.063
97.00	-1.78	-0.53	0.00	-8.84	0.00	8.84	581.40	290.70	312.17	156.32	2.66	-0.31	0.060
99.00	-1.74	-0.53	0.00	-7.78	0.00	7.78	554.88	277.44	284.14	142.28	2.79	-0.33	0.058
99.00	-1.74	-0.53	0.00	-7.78	0.00	7.78	725.83	362.92	362.74	181.64	2.79	-0.33	0.045
100.00	-1.54	-0.50	0.00	-7.25	0.00	7.25	725.83	362.92	362.74	181.64	2.86	-0.35	0.042
105.00	-1.38	-0.47	0.00	-4.74	0.00	4.74	725.83	362.92	362.74	181.64	3.25	-0.39	0.028
109.00	-1.12	-0.41	0.00	-2.84	0.00	2.84	725.83	362.92	362.74	181.64	3.59	-0.42	0.017
110.00	-0.92	-0.36	0.00	-2.43	0.00	2.43	725.83	362.92	362.74	181.64	3.68	-0.42	0.015
115.00	-0.85	-0.33	0.00	-0.65	0.00	0.65	725.83	362.92	362.74	181.64	4.13	-0.43	0.005
117.00	0.00	0.00	0.00	0.00	0.00	0.00	725.83	362.92	362.74	181.64	4.31	-0.43	0.000
119.00	0.00	0.00	0.00	0.00	0.00	0.00	725.83	362.92	362.74	181.64	4.49	-0.43	0.000

Site Number: 283420

Code: ANSI/TIA-222-G

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Site Name: STONEYBROOK RD CT, CT

Engineering Number: OAA700181_C3_01

4/14/2017 6:42:49 PM

Customer: T-MOBILE

Analysis Summary

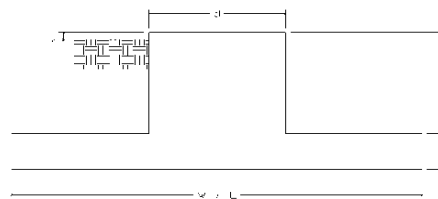
Load Case	Reactions						Max Usage	
	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.6W	13.23	0.00	23.23	0.00	0.00	1090.14	90.13	0.51
0.9D + 1.6W	13.20	0.00	17.42	0.00	0.00	1079.06	90.13	0.50
1.2D + 1.0Di + 1.0Wi	3.68	0.00	37.28	0.00	0.00	298.29	90.13	0.15
(1.2 + 0.2Sds) * DL + E ELFM	1.00	0.00	23.02	0.00	0.00	85.71	0.00	0.04
(1.2 + 0.2Sds) * DL + E EMAM	0.84	0.00	23.02	0.00	0.00	71.27	90.13	0.07
(0.9 - 0.2Sds) * DL + E ELFM	1.00	0.00	15.86	0.00	0.00	84.84	0.00	0.04
(0.9 - 0.2Sds) * DL + E EMAM	0.84	0.00	15.86	0.00	0.00	70.47	90.13	0.07
1.0D + 1.0W	3.16	0.00	19.38	0.00	0.00	258.93	90.13	0.12

Additional Steel Summary

Elev From (ft)	Elev To (ft)	Member	Intermediate Connectors			Upper Termination Connectors				Lower Termination Connectors				Max Member		
			VQ/I (lb/in)	Applied (kips)	phiVn (kips)	MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	Pu (kip)	phiPn (kip)	Ratio
43.8	62.0	(3) PL-PL 6" x 1"	302.4	7.3	25.3	0.0	25.3	0	0	119.4	25.3	5	8	132.9	300.9	0.442
62.0	82.0	(3) PL-PL 6" x 1"	367.7	8.8	25.3	0.0	25.3	0	0	0.0	25.3	0	0	123.8	300.9	0.412
82.0	90.1	(3) PL-PL 6" x 1"	346.0	8.3	25.3	69.3	25.3	3	8	0.0	25.3	0	0	83.4	300.9	0.277

Site Name: STONEYBROOK RD CT, CT
 Site Number: 283420
 Engineering Number: OAA700181
 Engineer: Kelsey.Sargent
 Date: 04/14/17
 Tower Type: MP

Program Last Updated: 5/13/2014



Design Loads (Factored) - Analysis per TIA-222-G Standards

Design / Analysis / Mapping:

	Analysis		
Compression/Leg:	23.2 k	Concrete Strength (f'_c):	4000 psi
Uplift/Leg:	0.0 k	Pad Tension Steel Depth:	20.00 in
Total Shear:	13.2 k	ϕ_{Shear} :	0.75
Moment:	1090.1 k-ft	$\phi_{\text{Flexure / Tension}}$:	0.90
Tower + Appurtenance Weight:	2.8 k	$\phi_{\text{Compression}}$:	0.65
Depth to Base of Foundation (l + t - h):	7.00 ft	β :	0.85
Diameter of Pier (d):	6.50 ft	Bottom Pad Rebar Size #:	7
Height of Pier above Ground (h):	0.50	# of Bottom Pad Rebar:	16
Width of Pad (W):	18.00 ft	Pad Bottom Steel Area:	9.60 in ²
Length of Pad (L):	18.00 ft	Pad Steel F_y :	60000 psi
Thickness of Pad (t):	2.00 ft	Top Pad Rebar Size #:	7
Tower Leg Center to Center:	0.00 ft	# of Top Pad Rebar:	13
Number of Tower Legs:	1.0 (1 if MP or GT)	Pad Top Steel Area:	7.80 in ²
Tower Center from Mat Center:	0.00 ft	Pier Rebar Size #:	9
Depth Below Ground Surface to Water Table:	6.50 ft	Pier Steel Area (Single Bar):	1.00 in ²
Unit Weight of Concrete:	150.0 pcf	# of Pier Rebar:	24
Unit Weight of Soil Above Water Table:	120.0 pcf	Pier Steel F_y :	60000 psi
Unit Weight of Water:	62.4 pcf	Pier Cage Diameter:	70.0 in
Unit Weight of Soil Below Water Table:	57.6 pcf	Rebar Strain Limit:	0.008
Friction Angle of Uplift:	15.0 Degrees	Steel Elastic Modulus:	29000 ksi
Ultimate Coefficient of Shear Friction:	0.35	Tie Rebar Size #:	4
Ultimate Compressive Bearing Pressure:	6000.0 psf	Tie Steel Area (Single Bar):	0.20 in ²
Ultimate Passive Pressure on Pad Face:	0.0 psf	Tie Spacing:	12 in
$\phi_{\text{Soil and Concrete Weight}}$:	0.9	Tie Steel F_y :	60000 psi
ϕ_{Soil} :	0.75		

Overturning Moment Usage

Design OTM: 1189.4 k-ft
 OTM Resistance: 2596.7 k-ft
 Design OTM / OTM Resistance: 0.46 Result: OK

Soil Bearing Pressure Usage

Net Bearing Pressure: 1885 psf
 Factored Nominal Bearing Pressure: 4500 psf
 Net Bearing Pressure/Factored Nominal Bearing Pressure: 0.42 Result: OK
 Load Direction Controlling Design Bearing Pressure: Diagonal to Pad Edge

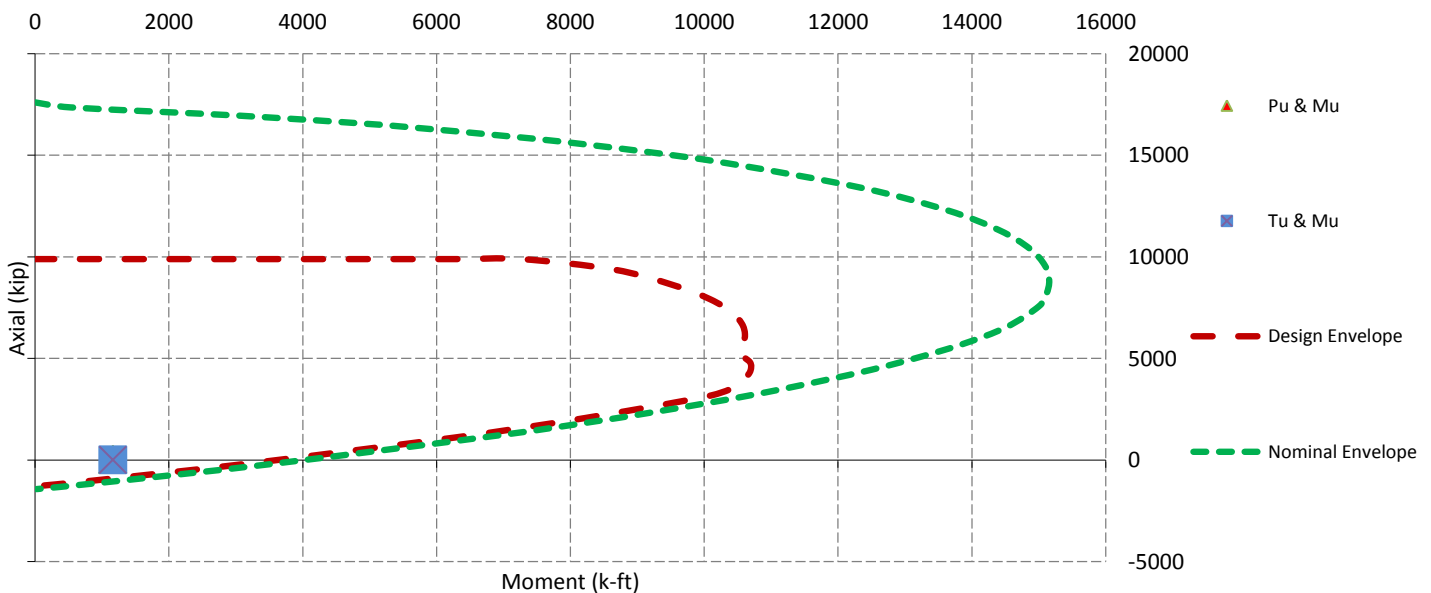
Sliding Factor of Safety

Total Factored Sliding Resistance: 76.5 k
 Sliding Design / Sliding Resistance: 0.17 Result: OK

One Way Shear, Flexural Capacity, and Punching Shear

Factored One Way Shear (V_u):	71.7 k
One Way Shear Capacity (ϕV_c):	355.7 k - ACI11.3.1.1
$V_u / \phi V_c$:	0.20 Result: OK
Load Direction Controlling Shear Capacity:	Diagonal to Pad Edge
Lower Steel Pad Factored Moment (M_u):	351.5 k-ft
Lower Steel Pad Moment Capacity (ϕM_n):	898.3 k-ft - ACI10.3
$M_u / \phi M_n$:	0.39 Result: OK
Load Direction Controlling Flexural Capacity:	Diagonal to Pad Edge
Upper Steel Pad Factored Moment (M_u):	268.6 k-ft
Upper Steel Pad Moment Capacity (ϕM_n):	692.5 k-ft
$M_u / \phi M_n$:	0.39 Result: OK
Lower Pad Flexural Reinforcement Ratio:	0.0022 OK - Minimum Reinforcement Ratio Met - ACI10.5.1
Upper Pad Flexural Reinforcement Ratio:	0.0018 OK - Minimum Reinforcement Ratio Met - ACI10.5.1
Lower Pad Reinforcement Spacing:	14 in - Pad Reinforcing Spacing OK - ACI7.12.2.2 & 10.5.4
Upper Pad Reinforcement Spacing:	17 in - Pad Reinforcing Spacing OK - ACI7.12.2.2 & 10.5.4
Factored Punching Shear (V_u):	0.0 k
Nominal Punching Shear Capacity ($\phi_c V_n$):	1168.3 k - ACI11.12.2.1
$V_u / \phi V_c$:	0.00 Result: OK
Factored Moment in Pier (M_u):	1162.9 k-ft
Pier Moment Capacity (ϕM_n):	3701.8 k-ft
$M_u / \phi M_n$:	0.31 Result: OK
Factored Shear in Pier (V_u):	13.2 k
Pier Shear Capacity (ϕV_n):	454.4 k
$V_u / \phi V_c$:	0.03 Result: OK
Pier Shear Reinforcement Ratio:	0.0004 No Ties Necessary for Shear - ACI11.5.6.1
Factored Tension in Pier (T_u):	0.0 k
Pier Tension Capacity (ϕT_n):	1296.0 k
$T_u / \phi T_n$:	0.00 Result: OK
Factored Compression in Pier (P_u):	23.2 k
Pier Compression Capacity (ϕP_n):	8405.7 k - ACI10.3.6.2
$P_u / \phi P_n$:	0.00 Result: OK
Pier Compression Reinforcement Ratio:	0.005 OK - Reinforcement Ratio Met - ACI10.9.1 & 10.8.4
$M_u / \phi_B M_n + T_u / \phi_T T_n$:	0.31 Result: OK

Nominal and Design Moment Capacity and Factored Design Loads



Base/Flange Plate	Plate Type	Flange @ 82.0 ft
	Pole Diameter	17.8375 in
	Pole Thickness	0.1875 in
	Plate Diameter	24.2 in
	Plate Thickness	1.5 in
	Plate Fy	50 ksi
	Weld Length	0.1875 in
	ϕ_s Resistance	3115.20 k-in
	Applied	1899.36 k-in
Stiffeners	#	3 Show
	Thickness	1 in
	Length	8 in
	Height	12 in
	Chamfer	0 in
	Offset Angle	45 °
	Fy	65 ksi

Code Rev. **G**

Moment **158.3 k-ft**

Axial **6.2 k**

Date **4/14/2017**

Engineer **K.Sargent**

Site # **283420**

Carrier **T-Mobile**

Bolts	#	4
	Bolt Circle	21.7 in
	(R)adial / (S)quare	R
	Diameter	1 in
	Hole Diameter	1.125 in
	Type	A325
	Fy	92 ksi
	Fu	120 ksi
	ϕ_s Resistance	54.52 k
Applied	85.90 k	
Reinforcement	#	0
Extra Bolts	#	0

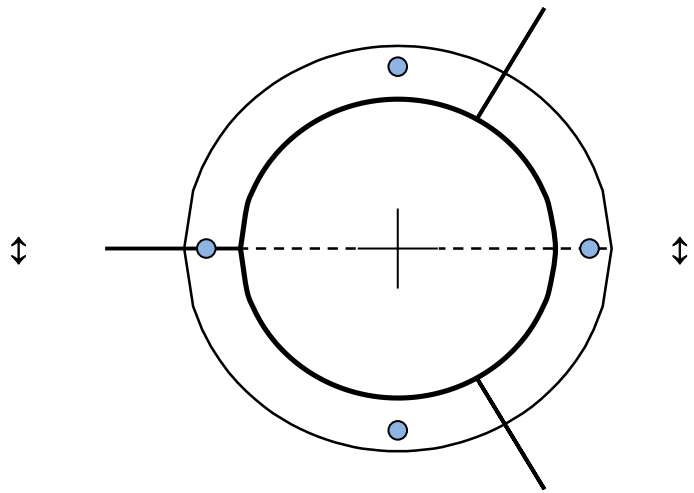


Plate Stress Ratio:
0.61 (Pass)

Bolt Stress Ratio:
0.00 (Pass)

Base/Flange Plate	Plate Type	Baseplate
	Pole Diameter	42 in
	Pole Thickness	0.3125 in
	Plate Diameter	56 in
	Plate Thickness	2 in
	Plate Fy	50 ksi
	Weld Length	0.25 in
	ϕ_s Resistance	494.80 k-in
	Applied	182.29 k-in
Stiffeners	#	0

Code Rev. **G**

Moment **1090.1 k-ft**
Axial **23.2 k**

Date **4/14/2017**
Engineer **K.Sargent**
Site # **283420**
Carrier **T-Mobile**

Bolts	#	12
	Bolt Circle (R)adial / (S)quare	49.15 in R
	Diameter	2.25 in
	Hole Diameter	2.625 in
	Type	A615-75
	Fy	75 ksi
	Fu	100 ksi
	ϕ_s Resistance	259.82 k
	Applied	90.58 k
Reinforcement	#	0
	#	0
Extra Bolts	#	0

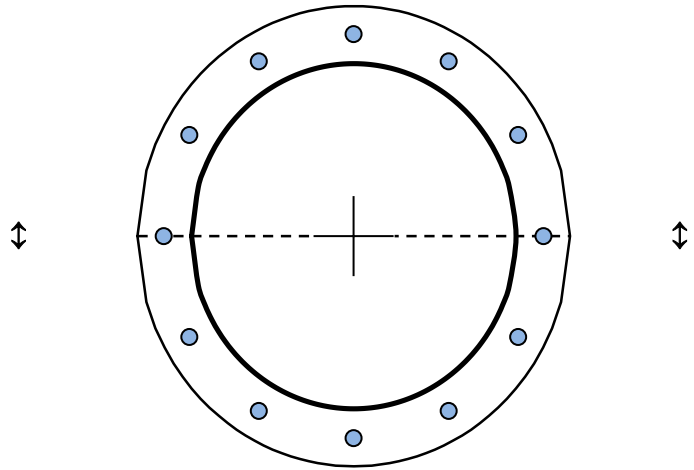


Plate Stress Ratio:
0.37 (Pass)

Bolt Stress Ratio:
0.35 (Pass)

Base/Flange Plate	Plate Type	Flange @ 99.0 ft
	Pole Diameter	12.5625 in
	Pole Thickness	0.25 in
	Plate Diameter	18 in
	Plate Thickness	1.25 in
	Plate Fy	50 ksi
	Weld Length	0.25 in
	ϕ_s Resistance	58.99 k-in
	Applied	10.44 k-in
	Stiffeners	#

Code Rev. **G**

Date **4/14/2017**
 Engineer **K.Sargent**
 Site # **283420**
 Carrier **T-Mobile**

Moment **60.5 k-ft**
 Axial **2.2 k**

Required Flange Thickness:
0.53 in OK

Bolts	#	8
	Bolt Circle (R)adial / (S)quare	15 in R
	Diameter	1 in
	Hole Diameter	1.0625 in
	Type	A325
	Fy	92 ksi
	Fu	120 ksi
	ϕ_s Resistance	54.52 k
	Applied	23.87 k
	Reinforcement	#
Extra Bolts	#	0

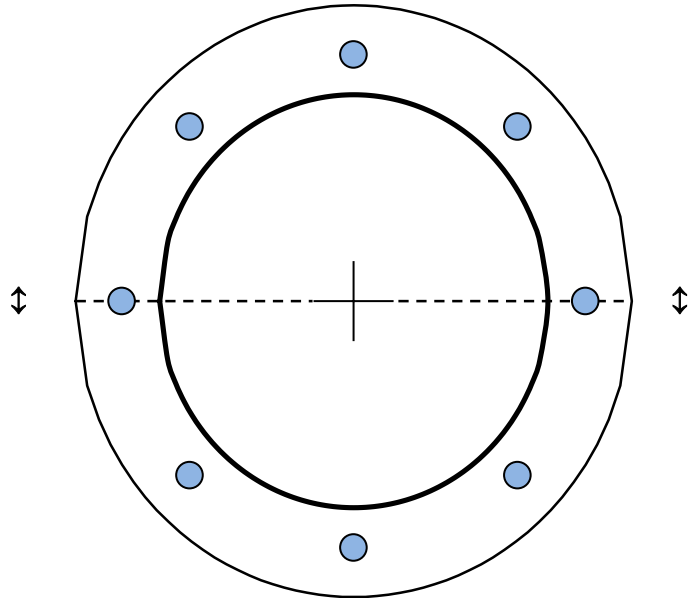


Plate Stress Ratio:
0.18 (Pass)

Bolt Stress Ratio:
0.44 (Pass)

RADIO FREQUENCY EMISSIONS ANALYSIS REPORT
EVALUATION OF HUMAN EXPOSURE POTENTIAL
TO NON-IONIZING EMISSIONS

T-Mobile Existing Facility

Site ID: CTFF310D

23 Stonybrook Rd
23 Stonybrook Rd
Stratford, CT 06614

April 21, 2017

EBI Project Number: 6217001770

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general public allowable limit:	21.81 %

April 21, 2017

T-Mobile USA
Attn: Jason Overbey, RF Manager
35 Griffin Road South
Bloomfield, CT 06002

Emissions Analysis for Site: **CTFF310D – 23 Stonybrook Rd**

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **23 Stonybrook Rd, Stratford, CT**, for the purpose of determining whether the emissions from the Proposed T-Mobile Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The number of $\mu\text{W}/\text{cm}^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limit for the 700 MHz Band is approximately 467 $\mu\text{W}/\text{cm}^2$, and the general population exposure limit for the 1900 MHz (PCS) and 2100 MHz (AWS) bands is 1000 $\mu\text{W}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.

CALCULATIONS

Calculations were done for the proposed T-Mobile Wireless antenna facility located at **23 Stonybrook Rd, Stratford, CT**, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since T-Mobile is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, was focused at the base of the tower. For this report the sample point is the top of a 6-foot person standing at the base of the tower.

For all calculations, all equipment was calculated using the following assumptions:

- 1) 2 GSM channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 2) 2 UMTS channels (AWS Band – 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 3) 2 LTE channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.
- 4) 2 LTE channels (AWS Band – 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel
- 5) 1 LTE channel (700 MHz Band) was considered for each sector of the proposed installation. This channel has a transmit power of 30 Watts.

- 6) Since the 2100 MHz UMTS radios are ground mounted there are additional cabling losses accounted for. For each ground mounted 2100 MHz UMTS RF path an additional 1.27 dB of cable loss was factored into the calculations used for this analysis. This is based on manufacturers Specifications for 120 feet of 1-5/8" coax cable on each path.
- 7) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
- 8) For the following calculations the sample point was the top of a 6-foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufactures supplied specifications minus 10 dB was used in this direction. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 9) The antennas used in this modeling are the **Ericsson AIR32 B66Aa/B2A** & **Commscope SBNHH-1D65C** for 700 MHz, 1900 MHz (PCS) and 2100 MHz (AWS) channels. This is based on feedback from the carrier with regards to anticipated antenna selection. The **Ericsson AIR32 B66Aa/B2A** has a maximum gain of **15.9 dBd** at its main lobe at 1900 MHz and 2100 MHz. The **Commscope SBNHH-1D65C** has a maximum gain of **15.1 dBd** at its main lobe at 1900 MHz and 2100 MHz and a maximum gain of **13.6 dBd** at its main lobe at 1900 MHz. The maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 10) The antenna mounting height centerlines of the proposed antennas are **87 & 97 feet** above ground level (AGL).
- 11) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.
- 12) All calculations were done with respect to uncontrolled / general public threshold limits.

T-Mobile Site Inventory and Power Data

Sector:	A	Sector:	B	Sector:	C
Antenna #:	1	Antenna #:	1	Antenna #:	1
Make / Model:	Ericsson AIR32 B66Aa/B2A	Make / Model:	Ericsson AIR32 B66Aa/B2A	Make / Model:	Ericsson AIR32 B66Aa/B2A
Gain:	15.9 dBd	Gain:	15.9 dBd	Gain:	15.9 dBd
Height (AGL):	97	Height (AGL):	97	Height (AGL):	97
Frequency Bands	1900 MHz (PCS) / 2100 MHz (AWS)	Frequency Bands	1900 MHz (PCS) / 2100 MHz (AWS)	Frequency Bands	1900 MHz (PCS) / 2100 MHz (AWS)
Channel Count	4	Channel Count	4	Channel Count	4
Total TX Power(W):	240	Total TX Power(W):	240	Total TX Power(W):	240
ERP (W):	9,337.08	ERP (W):	9,337.08	ERP (W):	9,337.08
Antenna A1 MPE%	4.05	Antenna B1 MPE%	4.05	Antenna C1 MPE%	4.05
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	Commscope SBNHH-1D65C	Make / Model:	Commscope SBNHH-1D65C	Make / Model:	Commscope SBNHH-1D65C
Gain:	15.1 dBd / 13.6 dBd	Gain:	15.1 dBd / 13.6 dBd	Gain:	15.1 dBd / 13.6 dBd
Height (AGL):	87	Height (AGL):	87	Height (AGL):	87
Frequency Bands	1900 MHz (PCS) / 700 MHz / 2100 MHz (AWS)	Frequency Bands	1900 MHz (PCS) / 700 MHz / 2100 MHz (AWS)	Frequency Bands	1900 MHz (PCS) / 700 MHz / 2100 MHz (AWS)
Channel Count	6	Channel Count	6	Channel Count	6
Total TX Power(W):	180	Total TX Power(W):	180	Total TX Power(W):	180
ERP (W):	4,765.36	ERP (W):	4,765.36	ERP (W):	4,765.36
Antenna A2 MPE%	3.47	Antenna B2 MPE%	3.47	Antenna C2 MPE%	3.47

Site Composite MPE%	
Carrier	MPE%
T-Mobile (Per Sector Max)	7.52 %
Verizon Wireless	12.16 %
AT&T	2.13 %
Site Total MPE %:	21.81 %

T-Mobile Sector A Total:	7.52 %
T-Mobile Sector B Total:	7.52 %
T-Mobile Sector C Total:	7.52 %
Site Total:	21.81 %

T-Mobile_per sector	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density ($\mu\text{W}/\text{cm}^2$)	Frequency (MHz)	Allowable MPE ($\mu\text{W}/\text{cm}^2$)	Calculated % MPE
T-Mobile AWS - 2100 MHz LTE	2	2,334.27	97	20.27	AWS - 2100 MHz	1000	2.03%
T-Mobile PCS - 1900 MHz LTE	2	2,334.27	97	20.27	PCS - 1900 MHz	1000	2.03%
T-Mobile PCS - 1900 MHz GSM	2	970.78	87	10.64	PCS - 1900 MHz	1000	1.06%
T-Mobile 700 MHz LTE	2	687.26	87	7.53	700 MHz	1000	1.61%
T-Mobile AWS - 2100 MHz UMTS	2	724.64	87	7.94	AWS - 2100 MHz	1000	0.79%
						Total:	7.52%

Summary

All calculations performed for this analysis yielded results that were **within** the allowable limits for general public exposure to RF Emissions.

The anticipated maximum composite contributions from the T-Mobile facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general public exposure to RF Emissions are shown here:

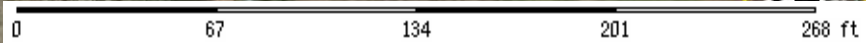
T-Mobile Sector	Power Density Value (%)
Sector A:	7.52 %
Sector B:	7.52 %
Sector C:	7.52 %
T-Mobile Per Sector Maximum:	7.52 %
Site Total:	21.81 %
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **21.81%** of the allowable FCC established general public limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government.

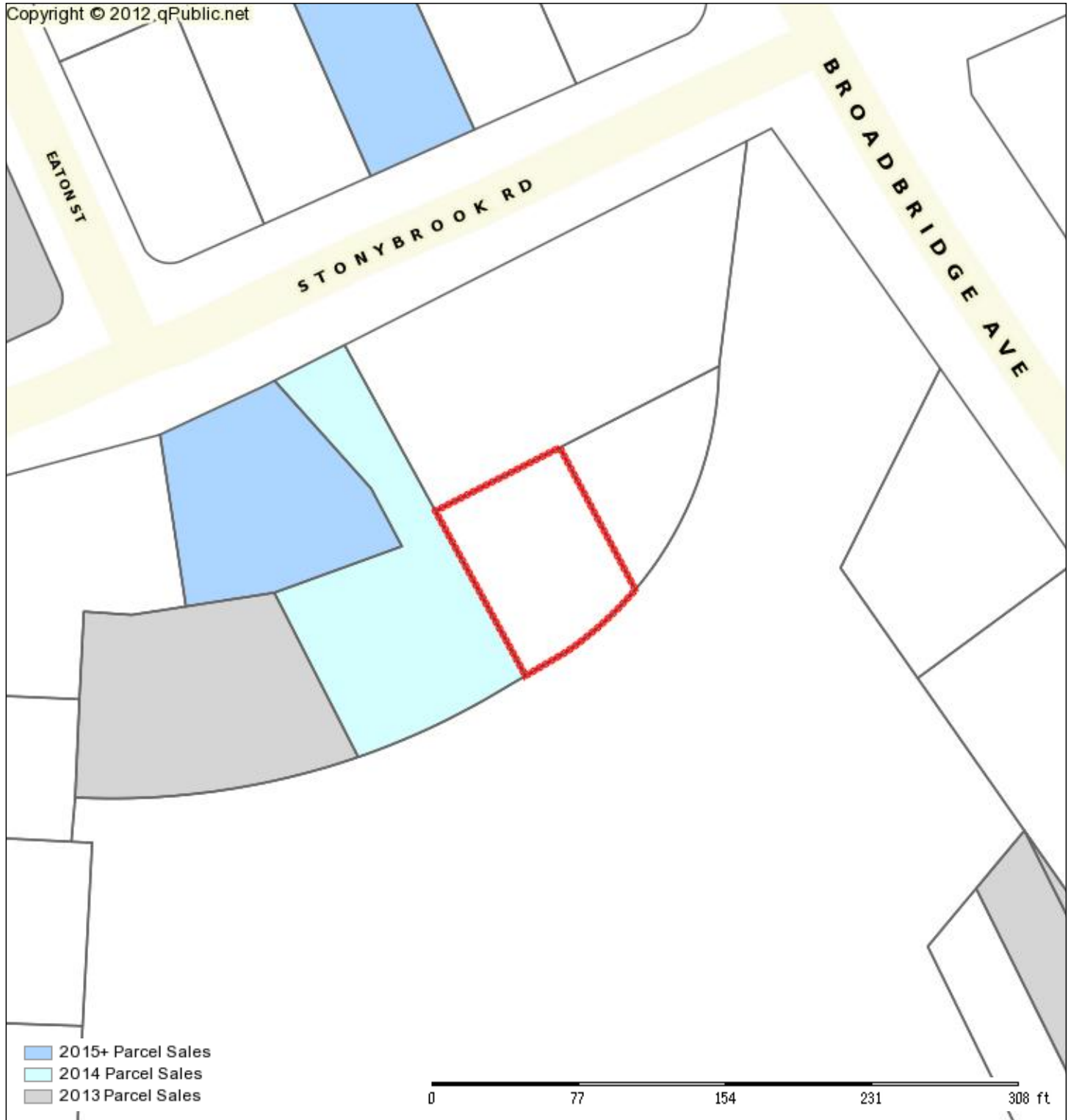


— Lakes/Rivers from US Census Dept, may not match parcels exactly



Tower compound subplot aka at "Ruth St", at 23 Stonybrook Rd			
Parcel: 15511 Acres: 0.110009			
Name:	STONYBROOK MANAGEMENT LLC	Land Value:	56500
Site:	RUTH ST	Improvement Value:	0
Sale:	\$0 on 2005-03-24 Reason=25 Qual=U	Accessory Value:	0
Mail:	251 EAST MAIN ST STRATFORD, CT 06614	Total Value:	236500





- 2015+ Parcel Sales
- 2014 Parcel Sales
- 2013 Parcel Sales

0 77 154 231 308 ft

Tower compound subplot aka at "Ruth St"			
Parcel: 15511 Acres: 0.110009			
Name:	STONYBROOK MANAGEMENT LLC	Land Value:	56500
Site:	RUTH ST	Improvement Value:	0
Sale:	\$0 on 2005-03-24 Reason=25 Qual=U	Accessory Value:	0
Mail:	251 EAST MAIN ST STRATFORD, CT 06614	Total Value:	236500



The Town of Stratford makes every effort to produce the most accurate information possible. No warranties, expressed or implied, are provided for the data herein, its use or interpretation. The assessment information is from the last certified taxroll. All data is subject to change before the next certified taxroll.
Date printed: 05/12/17 : 04:35:24



TOWN OF STRATFORD

[Recent Sales in Neighborhood](#)[Previous Parcel](#)[Next Parcel](#)[Field Definitions](#)[Return to Main Search](#)[Stratford Home](#)

Owner and Parcel Information

Owner Name	STONYBROOK MANAGEMENT LLC	Today's Date	May 12, 2017
Mailing Address	251 EAST MAIN ST	Account #	1499100
	STRATFORD, CT 06614		
Location Address	RUTH ST	Census Tract	801
Map / Block / Lot	30 /11 / 10 / 12/ Dev Lot: LTS 143-144 W/S	Acreage	0.15
Use Class / Description	390 Com Ld Dv	Parcel Map	Show Parcel Map Owner List By Radius

Current Appraised Value Information

Building Value	OB Value	Land Value	Special Land Value	Total Appraised Value	Net Appraised Value	Current Assessment
No Appraisal Information available for this parcel						

Assessment History

Year	Building	OB/Misc	Land	Total Assessment
2016	0	0	\$ 41,090	\$ 41,090
2015	0	0	\$ 41,090	\$ 41,090

Land Information

Use	Class	Zoning	Area	Value
Com Ld Dv	C		0.15 AC	\$ 58,700

Commercial Building Information

Style	Year Built	Eff Year Built	Gross Area	Stories	Grade	Exterior Wall	Interior Wall	Wall Height	# Units
	0	0	0	0.00				0	0
Roof Cover	Roof Structure	Floor Type	Heat Type	Heat Fuel	AC Type	Sprinkler	Construction	Plumbing	Comm Walls
						%			0%

Building Sub Areas

Code	Description	Living Area	Gross Area	Effective Area	Building Sketch	Building Photo
					NA	NA

No Sub Area Information available for this building.

Out Buildings / Extra Features

Description	Sub Description	Area	Year Built	Value
No Out Building/Misc Information available for this parcel.				

Sale Information

Sale Date	Sale Price	Deed Book/Page	Sale Qualification	Reason	Vacant or Improved	Owner
03/24/2005		2604/ 275	Unqualified	Other	Vacant	STONYBROOK MANAGEMENT LLC
08/13/1969		0451/0378	Unqualified		Vacant	STONYBROOK CENTER INC THE

Permit Information

Permit ID	Issue Date	Type	Description	Amount	Inspection Date	% Complete	Date Complete	Comments
No Permit Information available for this parcel.								

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TOWN OF STRATFORD

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Owner and Parcel Information

Owner Name	STONYBROOK MANAGEMENT LLC	Today's Date	May 12, 2017
Mailing Address	251 EAST MAIN ST	Account #	1626900
	STRATFORD, CT 06614		
Location Address	23 STONYBROOK RD	Census Tract	0810
Map / Block / Lot	30 /11 / 10 / 16/ Dev Lot: LTS 126-133 S/S	Acreage	0.46
Use Class / Description	323 Nbhd Ctr	Parcel Map	Show Parcel Map Owner List By Radius

Current Appraised Value Information

Building Value	OB Value	Land Value	Special Land Value	Total Appraised Value	Net Appraised Value	Current Assessment
No Appraisal Information available for this parcel						

Assessment History

Year	Building	OB/Misc	Land	Total Assessment
2016	\$ 499,310	\$ 9,240	\$ 148,960	\$ 657,510
2015	\$ 499,310	\$ 9,240	\$ 148,960	\$ 657,510

Land Information

Use	Class	Zoning	Area	Value
Nbhd Ctr	C		0.46 AC	\$ 212,800

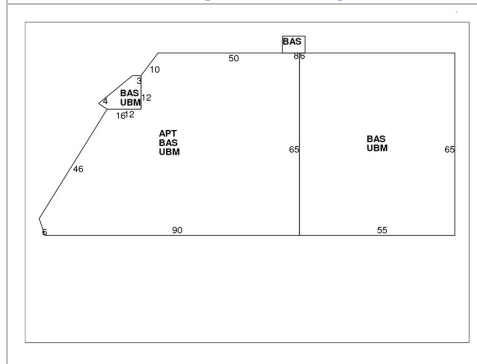
Commercial Building Information

Style	Year Built	Eff Year Built	Gross Area	Stories	Grade	Exterior Wall	Interior Wall	Wall Height	# Units
Retail Strip Ctr	1969	1982	21,718	2	C	Concr/Cinder	Drywall/Sheet	9	8
Roof Cover	Roof Structure	Floor Type	Heat Type	Heat Fuel	AC Type	Sprinkler	Construction	Plumbing	Comm Walls
Built Up	Flat	Carpet	Gas	Hot Water	Heat/AC Split	%	Masonry	Average	0%

Building Sub Areas

Code	Description	Living Area	Gross Area	Effective Area
APT	Apartment	4,762	4,762	
BAS	First Floor	8,502	8,502	
UBM	Unfinished Basement	0	8,454	
Totals		13,264	21,718	15,378

Building Sketch [Enlarge](#)



Building Photo [Enlarge](#)



Out Buildings / Extra Features

Description	Sub Description	Area	Year Built	Value
Air Condition		5,680 S.F.	1980	\$ 10,300
Paving	Asphalt	16,000 S.F.	1969	\$ 13,200
Sprinklers - Wet		3,000 S.F.	1980	\$ 4,100

Sale Information

Sale Date	Sale Price	Deed Book/ Page	Sale Qualification	Reason	Vacant or Improved	Owner
03/24/2005	\$ 900,000	2604/ 275	Qualified	Verified by Deed	Improved	STONYBROOK MANAGEMENT LLC
08/13/1969	\$ 90,000	0451/0378	Qualified	WD	Improved	STONYBROOK CENTER INC THE

Permit Information

Permit ID	Issue Date	Type	Description	Amount	Inspection Date	% Complete	Date Complete	Comments
21865	11/24/2014	BP	Building Permi	\$ 13,000		100		TOWER EXTENSION
21746	10/01/2014	BP	Building Permi	\$ 15,000		100		1 ANTENNA TRANSCEND WIRELESS
16222	03/28/2014	PL	Plumbing Permi	\$ 4,000		100		GAS LINE
20473	02/21/2014	EL	Electrical Per	\$ 5,000		100		GROUNDING/CONDUITS
21142	11/27/2013	BP	Building Permi	\$ 23,000		100		9 ANTENNAS
20139	08/29/2012	BP	Building Permi	\$ 8,500		100		REPL ANTENNAS/ADD EQUIP
19882	04/23/2012	BP	Building Permi	\$ 800		100		NEW FOP REAR
18872	05/23/2011	EL	Electrical Per	\$ 30,000		100		
13114	04/29/2011	PL	Plumbing Permi	\$ 800		100		371 STONYBROOK
11692	04/29/2011	HA	HVAC Permit	\$ 800		100		REPAIR 371 STONYBROOK

19040	02/07/2011	BP	Building Permi	\$ 120,000		100		MONOPOLE FOR TELECOMMUNICATIONS
17766	02/03/2009	BP	Building Permi	\$ 800		100		SEPERATION WALL
12382	02/02/2009	PL	Plumbing Permi	\$ 1,500		100		PLUMBING
13536	01/23/2009	EL	Electrical Per	\$ 800		100		ELECTRICAL
12129	03/19/2008	PL	Plumbing Permi	\$ 2,250		100		FIRE SUPPRESSION SYST
S2975	03/04/2008	SN	Sign Permit	\$ 500		100		SIGN FOR MARTINS FAMILY MARKET
17144	03/04/2008	BP	Building Permi	\$ 20,000		100		CONVERT BAKERY TO GROC STORE
9865	02/29/2008	HA	HVAC Permit	\$ 12,508		100		HOOD SYSTEM
11632	09/26/2006	PL	Plumbing Permi	\$ 5,000		100		NEW PLUMBING
12303	09/25/2006	EL	Electrical Per	\$ 3,500		100		REFIT BAKERY SPACE
15952	09/21/2006	BP	Building Permi	\$ 1,000		100		UPDATE EXISTING BAKERY
15825	07/24/2006	BP	Building Permi	\$ 18,000		100		REROOF RESIDENCE

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Owner and Parcel Information

Owner Name	STONYBROOK MANAGEMENT LLC	Today's Date	May 12, 2017
Mailing Address	251 EAST MAIN ST	Account #	1499000
	STRATFORD, CT 06614		
Location Address	RUTH ST	Census Tract	801
Map / Block / Lot	30 / 11 / 10 / 13/ Dev Lot: LTS 140-142 W/S	Acreage	0.11
Use Class / Description	337 Parking Lot	Parcel Map	Show Parcel Map Owner List By Radius

Current Appraised Value Information

Building Value	OB Value	Land Value	Special Land Value	Total Appraised Value	Net Appraised Value	Current Assessment
No Appraisal Information available for this parcel						

Assessment History

Year	Building	OB/Misc	Land	Total Assessment
2016	0	\$ 126,000	\$ 39,550	\$ 165,550
2015	0	\$ 126,000	\$ 39,550	\$ 165,550

Land Information

Use	Class	Zoning	Area	Value
Parking Lot	C		0.11 AC	\$ 56,500

Commercial Building Information

Style	Year Built	Eff Year Built	Gross Area	Stories	Grade	Exterior Wall	Interior Wall	Wall Height	# Units
	0	0	0	0.00				0	0
Roof Cover	Roof Structure	Floor Type	Heat Type	Heat Fuel	AC Type	Sprinkler	Construction	Plumbing	Comm Walls
						%			0%

Building Sub Areas

Code	Description	Living Area	Gross Area	Effective Area
No Sub Area Information available for this building.				

Building Sketch

NA

Building Photo [Enlarge](#)



Out Buildings / Extra Features

Description	Sub Description	Area	Year Built	Value
Paving	Asphalt	5,000 S.F.	1986	\$ 5,000
Cell Tower - Pole		1 Units	2011	\$ 175,000

Sale Information

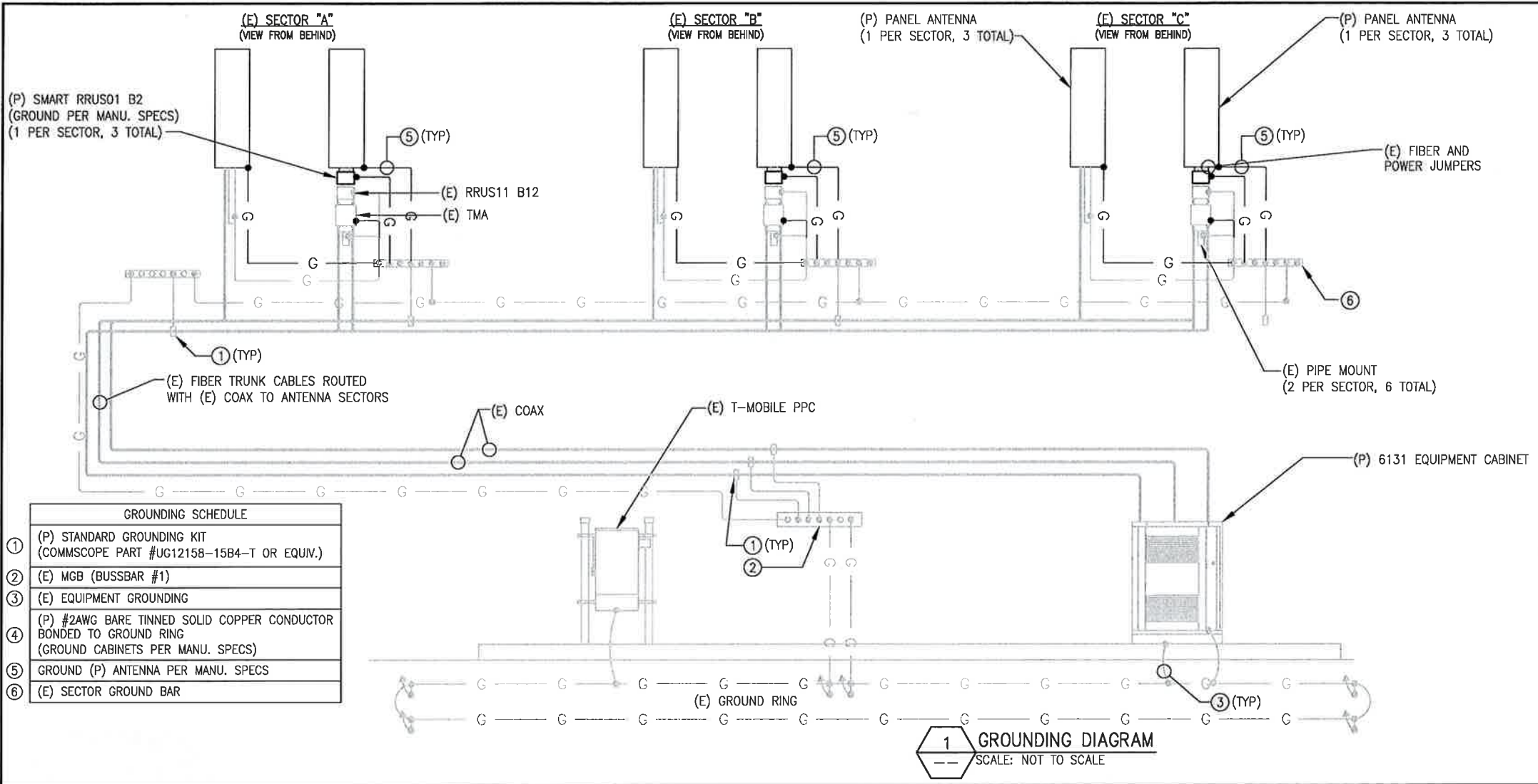
Sale Date	Sale Price	Deed Book/Page	Sale Qualification	Reason	Vacant or Improved	Owner
03/24/2005		2604/ 275	Unqualified	Other	Vacant	STONYBROOK MANAGEMENT LLC
08/13/1969		0451/0378	Unqualified		Vacant	STONYBROOK CENTER INC THE

Permit Information

Permit ID	Issue Date	Type	Description	Amount	Inspection Date	% Complete	Date Complete	Comments
No Permit Information available for this parcel.								

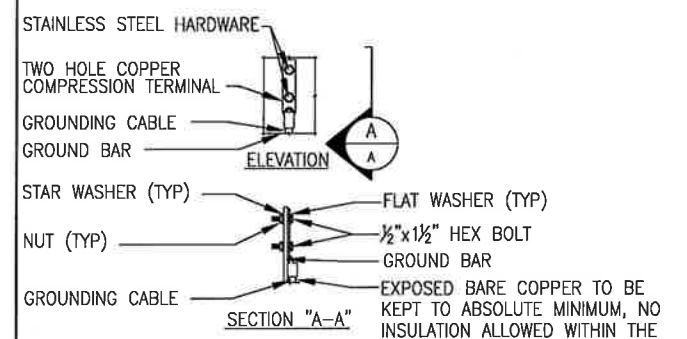
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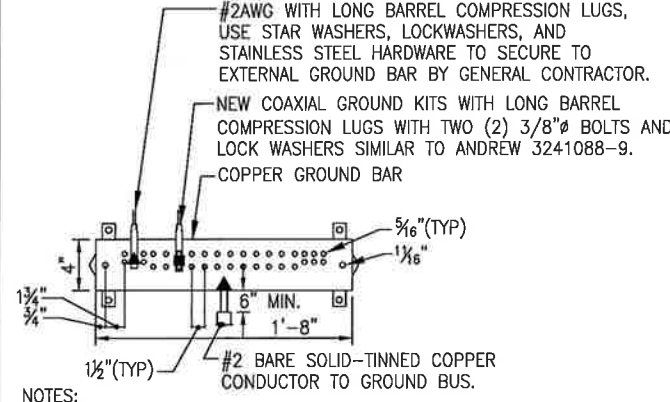


GROUNDING SCHEDULE	
①	(P) STANDARD GROUNDING KIT (COMMSCOPE PART #UG12158-15B4-T OR EQUIV.)
②	(E) MGB (BUSSBAR #1)
③	(E) EQUIPMENT GROUNDING
④	(P) #2AWG BARE TINNED SOLID COPPER CONDUCTOR BONDED TO GROUND RING (GROUND CABINETS PER MANU. SPECS)
⑤	GROUND (P) ANTENNA PER MANU. SPECS
⑥	(E) SECTOR GROUND BAR

1 GROUNDING DIAGRAM
--- SCALE: NOT TO SCALE



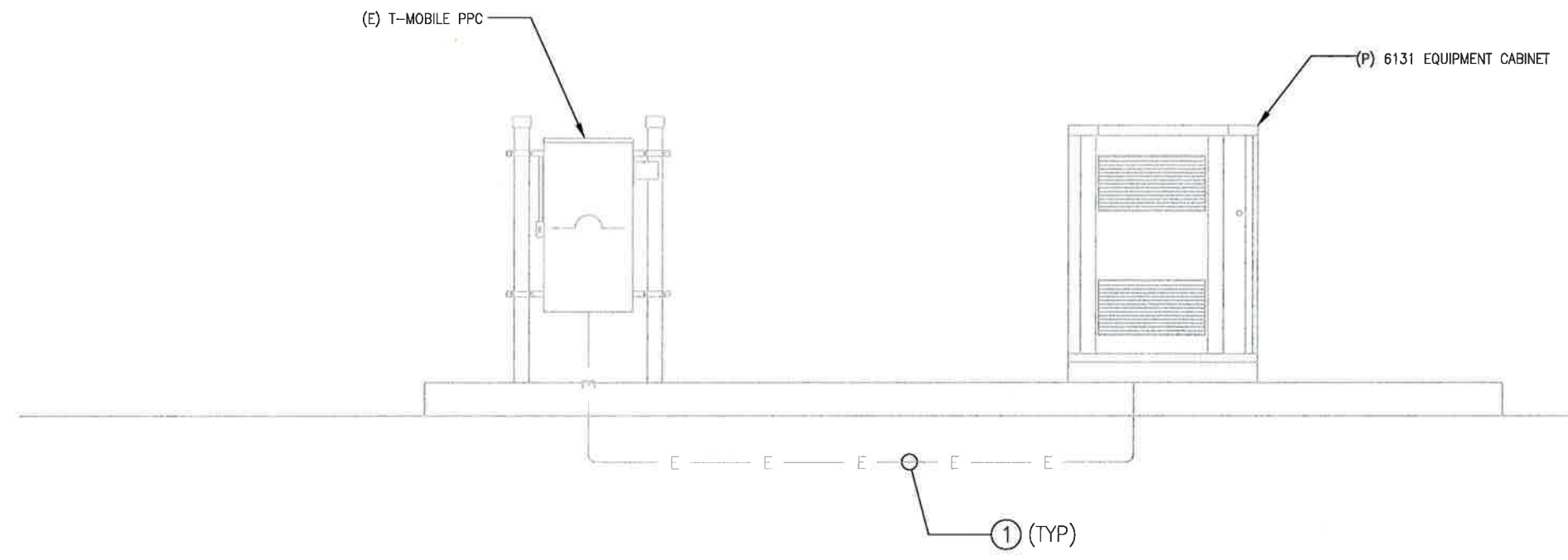
NOTES:
1. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.



NOTES:
1. ALL HARDWARE STAINLESS STEEL COAT ALL SURFACES WITH KOPR-SHIELD BEFORE MATING.
2. FOR GROUND BOND TO STEEL ONLY: INSERT A TOOTH WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH KOPR-SHIELD.
3. ALL HOLES ARE COUNTERSUNK 1/8\"/>

2 GROUND BAR CONNECTION DETAILS
--- SCALE: NOT TO SCALE

CONDUIT SCHEDULE	
①	(E) POWER CONDUIT



3 POWER DIAGRAM
--- SCALE: NOT TO SCALE

CONTRACTOR NOTE:
CONTRACTOR TO VERIFY THAT THE EXISTING CONDUITS AND WIRE SIZES ARE ADEQUATE FOR THE PROPOSED LOADING IN ACCORDANCE WITH NEC AND INCLUDE ELECTRICAL UPGRADES IN THE SCOPE OF WORK AS REQUIRED.



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NOTE: IF DRAWINGS ARE 22"x34", USE GRAPHICAL SCALE AND/OR 1/2 TIMES OF THE NOTED SCALE.

SITE NUMBER:
CTFF310D
SITE NAME:
23 STONEYBROOK RD
23 STONEYBROOK ROAD
STRATFORD, CT 06614

SHEET TITLE
GROUNDING & POWER DIAGRAMS

SHEET NUMBER
E-1
SHEET 6 OF 8 SHEETS

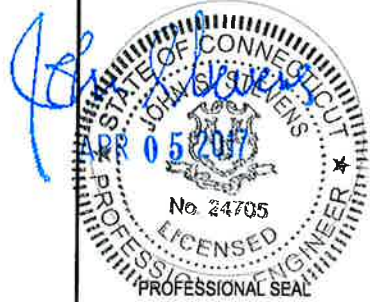
NOTE:
INFINIGY HAS NOT CONDUCTED AN ELECTRICAL LOAD STUDY FOR THIS SITE. CONTRACTOR IS TO VERIFY EXISTING ELECTRICAL LOADING PRIOR TO CONSTRUCTION TO ENSURE EXISTING INCOMING SERVICE CAPACITY. ALL ELECTRICAL INSTALLATION IS TO COMPLY WITH NEC, ADOPTED VERSION.

SUBMITTALS

DATE	DESCRIPTION	REVISION
04/05/17	FOR PERMIT	0

DEPT.	DATE	APP'D	REVISIONS
RTE			
RF MAN.			
ZONING			
OPS			
CONSTR.			
SITE AC.			

PROJECT NO: 317-000
DRAWN BY: JDL
CHECKED BY: ASW



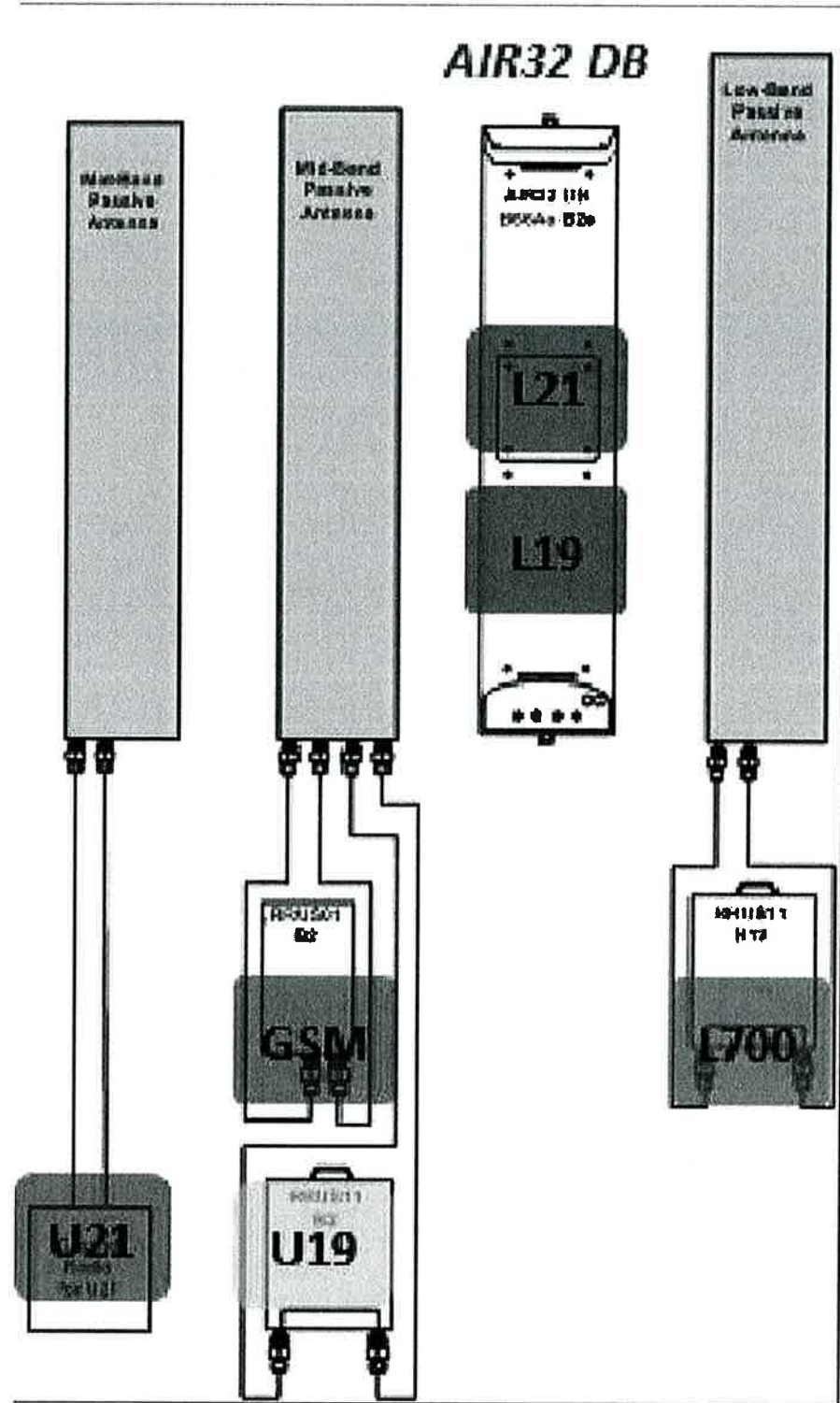
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NOTE: IF DRAWINGS ARE 22"x34", USE GRAPHICAL SCALE AND/OR 1/2 TIMES OF THE NOTED SCALE.

SITE NUMBER:
CTFF310D
SITE NAME:
23 STONEYBROOK RD
23 STONEYBROOK ROAD
STRATFORD, CT 06614

SHEET TITLE
COAX/FIBER PLUMBING DIAGRAM

SHEET NUMBER
E-2
SHEET 7 OF 8 SHEETS



1 793DB CONFIGURATION COAX/FIBER PLUMBING DIAGRAM
NOT TO SCALE

