



Jon Ritter

16 Chestnut Street, Suite 420  
Foxboro, MA 02035  
Tel (774) 264-0016  
[jritter@trmcom.com](mailto:jritter@trmcom.com)

2/1/2016

Melanie Bachman  
Acting Executive Director  
Connecticut Siting Counsel  
10 Franklin Square  
New Britain, CT 06051

Re: **Notice of Exempt Modification**  
**20 Post Office Lane, Westport CT 06880**  
**41.123203/--73.3167055**

Dear Ms. Bachman:

T-Mobile Northeast, LLC (T-Mobile) currently maintains seven (7) antennas at the ninety (90') foot level of the existing one hundred and fifty one (151') foot Monopole at 20 Post Office Lane, Westport, CT. The monopole tower is owned by American Tower Corporation. The property is owned by American Tower Corporation too. T-Mobile now intends to add Three (3) new 700MHz antennas. These antennas would be installed at the ninety (90') foot level of the tower.

This facility was originally approved by the Connecticut Siting Council. The original zoning decision, (docket 166) dated August 29<sup>th</sup>, 1995 has been included with this filing. The decision includes the conditions that the tower shall not exceed one hundred and thirty (130') feet, approved as existing at up at 151' in Petition 600, dated January 8<sup>th</sup>, 2003.

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 the Chief Elected Official, First Selectmen, Jim Marpe for the Town of Westport, as well as the property owner and the tower owner.

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

- 1) The proposed modification will not result in an increase in the height of the existing structure.
- 2) The modifications will not require an extension of the site boundary.
- 3) The proposed modification will not increase the noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
- 4) The operation and replacement of 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.

For the foregoing reasons, T-Mobile Northeast LLC 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,

*Jonathan H Ritter*

**Jon Ritter**

On behalf of American Tower Corporation  
c/o Tower Resource Management, Inc.  
16 Chestnut Street, Suite 420  
Foxboro, MA 02035  
774-264-0016  
jritter@trmcom.com

cc: **Chief Elected Official, First Selectmen, Jim Marpe, Town of Westport  
American Tower Corporation  
American Towers, Inc.**

Exhibit 1

Site Plan

Exhibit 2

Power Density Report

Exhibit 3

Structural Analysis

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

**T-Mobile Existing Facility**

**Site ID: CT11012B**

**Westport/ I-95/ X18/ Sher  
20 Post Office Lane  
Westport, CT 06880**

**February 1, 2016**

**EBI Project Number: 6216000612**

<b>Site Compliance Summary</b>	
Compliance Status:	<b>COMPLIANT</b>
Site total MPE% of FCC general public allowable limit:	<b>16.78 %</b>

February 1, 2016

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

Emissions Analysis for Site: **CT11012B – Westport/ I-95/ X18/ Sher**

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **20 Post Office Lane, Westport, 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 PCS and 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 **20 Post Office Lane, Westport, 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 / UMTS 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 (AWS Band – 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.
- 4) 1 LTE channel (700 MHz Band) was considered for each sector of the proposed installation. This channel has a transmit power of 30 Watts.
- 5) 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.



- 6) For the following calculations the sample point was the top of a six 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.
- 7) The antennas used in this modeling are the **Ericsson AIR21 (B4A/B2P & B2A/B4P)** for 1900 MHz (PCS) and 2100 MHz (AWS) channels and the **Commscope LNX-6515DS-VTM** for 700 MHz channels. This is based on feedback from the carrier with regards to anticipated antenna selection. The **Ericsson AIR21 (B4A/B2P & B2A/B4P)** have a maximum gain of **15.9 dBd** at their main lobe. The **Commscope LNX-6515DS-VTM** has a maximum gain of **14.6 dBd** at its main lobe. 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.
- 8) The antenna mounting height centerline of the proposed antennas is **90 feet** above ground level (AGL).
- 9) 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.

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 AIR21 B4A/B2P	Make / Model:	Ericsson AIR21 B4A/B2P	Make / Model:	Ericsson AIR21 B4A/B2P
Gain:	15.9 dBd	Gain:	15.9 dBd	Gain:	15.9 dBd
Height (AGL):	90	Height (AGL):	90	Height (AGL):	90
Frequency Bands	2100 MHz (AWS)	Frequency Bands	2100 MHz (AWS)	Frequency Bands	2100 MHz (AWS)
Channel Count	2	Channel Count	2	Channel Count	2
Total TX Power(W):	120	Total TX Power(W):	120	Total TX Power(W):	120
ERP (W):	4,668.54	ERP (W):	4,668.54	ERP (W):	4,668.54
Antenna A1 MPE%	2.38	Antenna B1 MPE%	2.38	Antenna C1 MPE%	2.38
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	Ericsson AIR21 B2A/B4P	Make / Model:	Ericsson AIR21 B2A/B4P	Make / Model:	Ericsson AIR21 B2A/B4P
Gain:	15.9 dBd	Gain:	15.9 dBd	Gain:	15.9 dBd
Height (AGL):	90	Height (AGL):	90	Height (AGL):	90
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):	120	Total TX Power(W):	120	Total TX Power(W):	120
ERP (W):	4,668.54	ERP (W):	4,668.54	ERP (W):	4,668.54
Antenna A2 MPE%	2.38	Antenna B2 MPE%	2.38	Antenna C2 MPE%	2.38
Antenna #:	3	Antenna #:	3	Antenna #:	3
Make / Model:	Commscope LNX-6515DS-VTM	Make / Model:	Commscope LNX-6515DS-VTM	Make / Model:	Commscope LNX-6515DS-VTM
Gain:	14.6 dBd	Gain:	14.6 dBd	Gain:	14.6 dBd
Height (AGL):	90	Height (AGL):	90	Height (AGL):	90
Frequency Bands	700 MHz	Frequency Bands	700 MHz	Frequency Bands	700 MHz
Channel Count	1	Channel Count	1	Channel Count	1
Total TX Power(W):	30	Total TX Power(W):	30	Total TX Power(W):	30
ERP (W):	865.21	ERP (W):	865.21	ERP (W):	865.21
Antenna A3 MPE%	0.94	Antenna B3 MPE%	0.94	Antenna C3 MPE%	0.94

Site Composite MPE%	
Carrier	MPE%
T-Mobile (Per Sector Max)	5.70 %
AT&T	1.85 %
Enertrac	0.00 %
Verizon Wireless	6.23 %
MetroPCS	1.24 %
Clearwire	0.08 %
Sprint	1.15 %
Nextel	0.53 %
<b>Site Total MPE %:</b>	<b>16.78 %</b>

T-Mobile Sector 1 Total:	5.70 %
T-Mobile Sector 2 Total:	5.70 %
T-Mobile Sector 3 Total:	5.70 %
<b>Site Total:</b>	<b>16.78 %</b>

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 2100 MHz (AWS) LTE	2	2334.27	90	23.79	2100	1000	2.38 %
T-Mobile 1900 MHz (PCS) GSM/UMTS	2	1167.14	90	11.89	1900	1000	1.19 %
T-Mobile 2100 MHz (AWS) UMTS	2	1167.14	90	11.89	2100	1000	1.19 %
T-Mobile 700 MHz LTE	1	865.21	90	4.41	700	467	0.94 %
						<b>Total:</b>	<b>5.70%</b>

## 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 1:	5.70 %
Sector 2:	5.70 %
Sector 3 :	5.70 %
T-Mobile Per Sector Maximum:	5.70 %
Site Total:	16.78 %
Site Compliance Status:	<b>COMPLIANT</b>

The anticipated composite MPE value for this site assuming all carriers present is **16.78%** 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.



Scott Heffernan  
RF Engineering Director

**EBI Consulting**  
21 B Street  
Burlington, MA 01803



**AMERICAN TOWER®**  
CORPORATION

---

## Structural Analysis Report

**Structure** : 142 ft Monopole  
**ATC Site Name** : WSPT - South, CT  
**ATC Site Number** : 302511  
**Engineering Number** : 63916524  
**Proposed Carrier** : T-Mobile  
**Carrier Site Name** : N/A  
**Carrier Site Number** : CT11012B  
**Site Location** : 20 Post Office Lane  
Westport, CT 06880-6226  
41.123444,-73.313100  
**County** : Fairfield  
**Date** : January 25, 2016  
**Max Usage** : 86%  
**Result** : Pass

Reviewed by:  
William Garrett, PE  
Chief Engineer

Prepared By:  
Santhosha Shanbhogue  
Structural Engineer III



Jan 25 2016 2:48 PM

COA: PEC.0001553



**Table of Contents**

Introduction .....	1
Supporting Documents .....	1
Analysis .....	1
Conclusion.....	1
Existing and Reserved Equipment.....	2
Equipment to be Removed.....	2
Proposed Equipment .....	2
Structure Usages .....	3
Foundations .....	3
Deflection, Twist, and Sway.....	3
Standard Conditions .....	4
Calculations .....	Attached



## Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 142 ft monopole to reflect the change in loading by T-Mobile.

## Supporting Documents

<b>Tower Drawings</b>	EI Job #3502, dated March 2, 1998
<b>Foundation Drawing</b>	Walker Job #W0105-988RE, dated August 2, 2001
<b>Geotechnical Report</b>	MB&A Project #011105, dated July 17, 2001
<b>Modifications</b>	EI Project #11753, dated July 25, 2003 SpectraSite Drawing #CT-0047-M1, dated August 12, 2005 ATC Job #42046633, dated October 16, 2008 ATC Job #46844332/46993332, dated April 15, 2011

## 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.

<b>Basic Wind Speed:</b>	110 mph (3-Second Gust)
<b>Basic Wind Speed w/ Ice:</b>	50 mph (3-Second Gust) w/ 3/4" radial ice concurrent
<b>Code:</b>	ANSI/TIA-222-G / 2003 IBC w/ 2005 CT Supplement & 2009 CT Amendment
<b>Structure Class:</b>	II
<b>Exposure Category:</b>	B
<b>Topographic Category:</b>	1
<b>Crest Height:</b>	0 ft
<b>Spectral Response:</b>	$S_s = 0.22$ , $S_1 = 0.07$
<b>Site Class:</b>	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](mailto: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 <sup>1</sup> (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
136.0	139.0	6	Generic RCU (Remote Control Unit)	Flush	(6) 1 5/8" Coax (1) 3/8" Coax	Metro PCS
		3	Kathrein 742-218 / AP20-1940/045D/ADT/XP			
131.0	131.0	6	Powerwave LGP219nn	Platform w/ Handrails	(12) 1 1/4" Coax (2) 0.65" 8 AWG 2C (1) 0.28" RG-6	AT&T Mobility
		3	Powerwave P65-16-XLH-RR			
		6	Powerwave LGP21401			
		1	Raycap DC6-48-60-18-8F ("Squid")			
		6	Ericsson RRUS 11 (Band 4)			
120.0	120.0	2	DragonWave Horizon Compact	Platform w/ Handrails	(6) 5/16" Coax (4) 1 1/4" Hybriflex (2) 1/2" Coax (1) 3/8" Coax	Clearwire
		3	NextNet BTS-2500			
		3	Argus LLPX310R			
		2	DragonWave A-ANT-18G-2-C			
		3	Alcatel-Lucent 800MHz 2X50W RRh w/ Filter			Sprint Nextel
		3	Alcatel-Lucent 1900MHz 4x45 RRH			
		3	Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield			
		3	RFS RFS APXV9TM14-ALU-I20			
110.0	110.0	12	Swedcom ALP 9011-Din	Platform w/ Handrails	(12) 1 5/8" Coax	
		104.0	1	GPS		
100.0	100.0	6	RFS FD9R6004/1C-3L	Platform w/ Handrails	(12) 1 5/8" Coax (1) 1 5/8" Hybriflex (1) 1/2" Coax	Verizon
		3	Alcatel-Lucent RRH2x40-AWS			
		3	Ryma MGD3-800TX			
		3	Antel BXA-171063/12CF__2 FP			
		1	RFS DB-T1-6Z-8AB-0Z			
		3	Antel BXA-70080/6CF__			
		3	Powerwave P65-16-XL-2			
90.0	90.0	4	RFS ATMAA1412D-1A20	Platform w/ Handrails	(14) 1 5/8" Coax (1) 1 1/4" Fiber	T-Mobile
		4	Ericsson AIR 21, 1.3 M, B2A B4P			
		3	Ericsson AIR 21, 1.3M, B4A B2P			
80.0	80.0	2	6' Omni	Stand-Off	(4) 1/2" Coax	Enertrac
	83.0	2	Diamond X50A			Senet
70.0	70.0	1	PCTEL GPS-TMG-HR-26N	Stand-Off	(2) 1/2" Coax	Sprint Nextel

**Equipment to be Removed**

Elevation <sup>1</sup> (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
No loading considered as to be removed						



**Proposed Equipment**

Elevation <sup>1</sup> (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
90.0	90.0	3	Ericsson RRUS 11 B12	Platform w/ Handrails	-	T-Mobile
		3	Andrew LNX-6515DS-VTM			

<sup>1</sup>Mount 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).

**Structure Usages**

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	56%	Pass
Shaft	86%	Pass
Base Plate	46%	Pass
Reinforcement	77%	Pass

**Foundations**

Reaction Component	Analysis Reactions	% of Usage
Moment (Kips-Ft)	3,705.4	61%
Shear (Kips)	41.3	61%

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) (°)
120.0	DragonWave A-ANT-18G-2-C	Clearwire	1.188	1.186
90.0	Ericsson RRUS 11 B12	T-Mobile	0.629	0.896
	Andrew LNX-6515DS-VTM			

\*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:

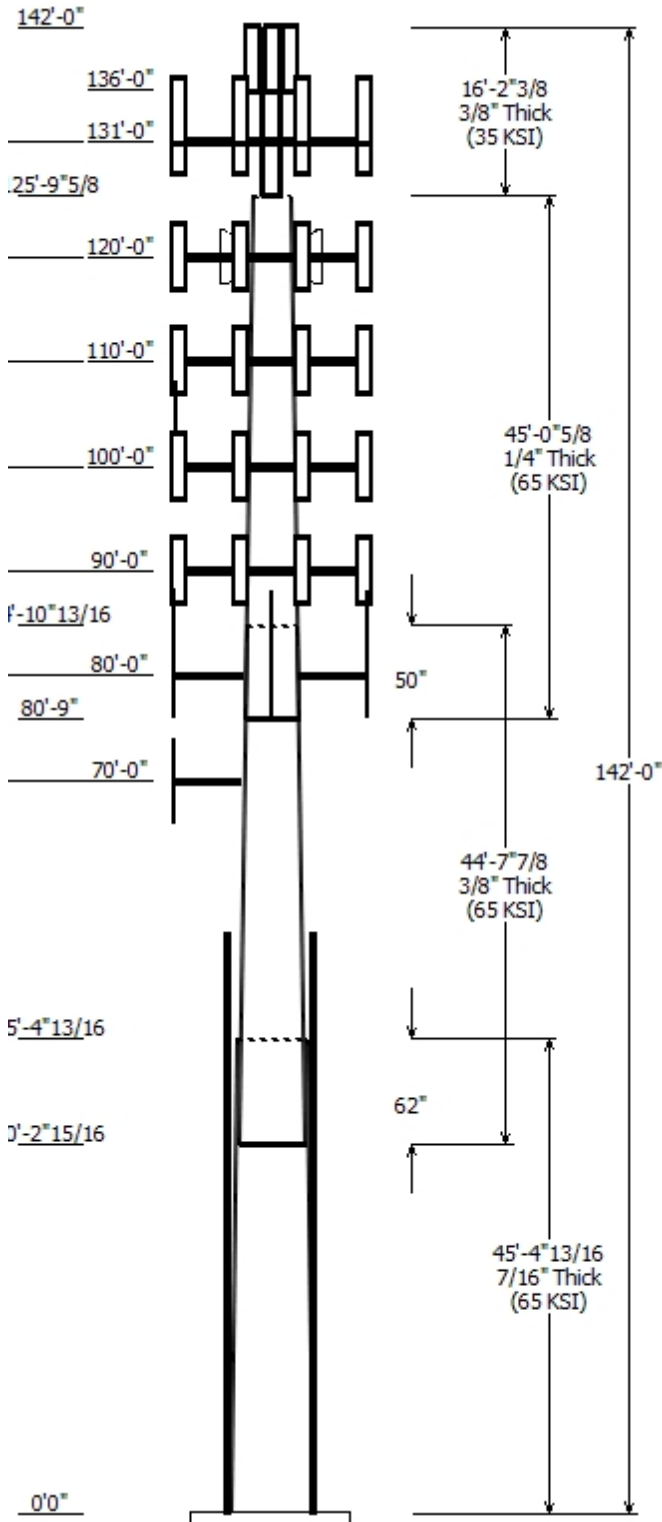
- Information supplied by the client regarding the structure itself, antenna, mounts and feed line loading on the structure and its components, or other relevant information.
- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements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

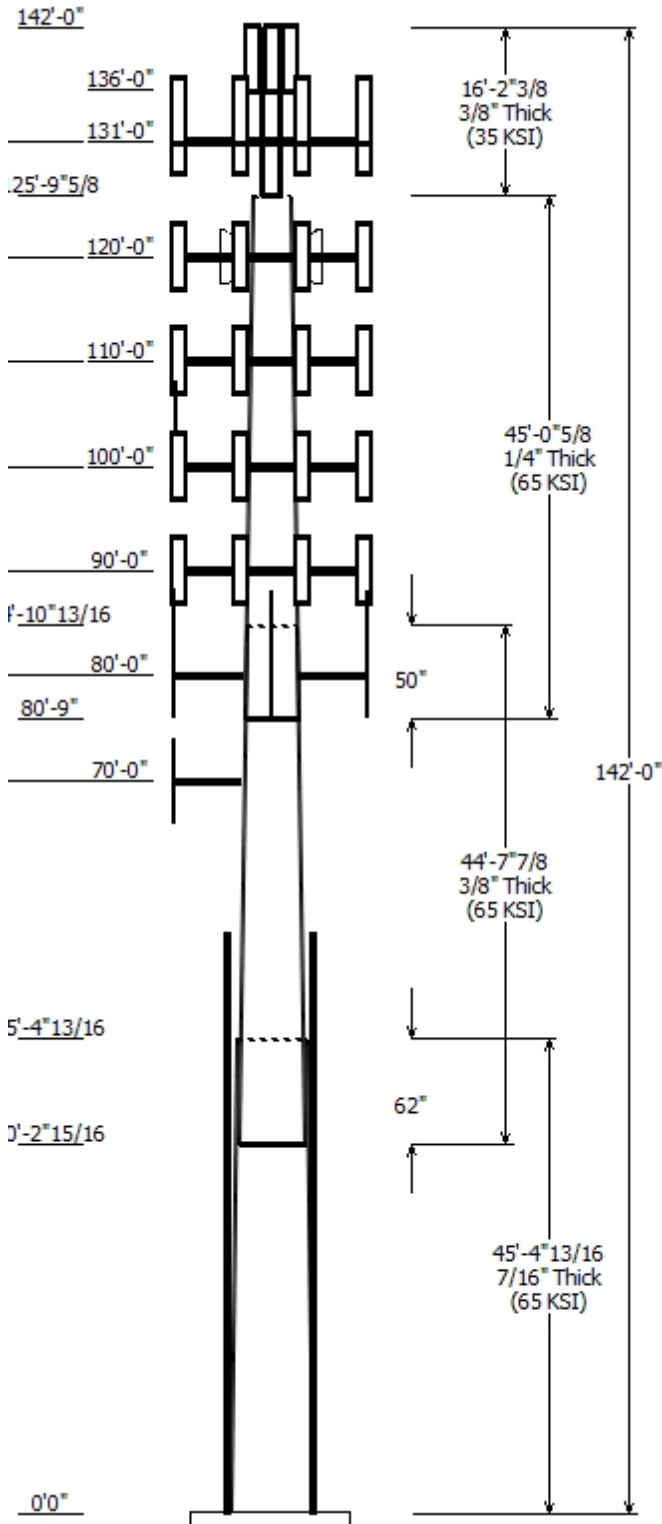
All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. A.T. Engineering Service, PLLC is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.

Job Information	
Pole :	302511
Code :	ANSI/TIA-222-G
Description :	142 ft EEI Monopole
Client :	T-MOBILE
Struct Class :	II
Location :	WSPT - South, CT
Shape :	12 Sides
Exposure :	B
Height :	142.00 (ft)
Topo :	1
Base Elev (ft):	0.00
Taper:	0.21263(in/ft)



Sections Properties								
Shaft Section	Length (ft)	Diameter (in)		Thick (in)	Joint Type	Overlap		Steel Grade (ksi)
		Top	Bottom			Length (in)	Taper (in/ft)	
1	45.400	35.34	45.00	0.438		0.000	0.212600	65
2	44.656	27.69	37.19	0.375	Slip Joint	61.875	0.212600	65
3	45.052	19.50	29.08	0.250	Slip Joint	49.813	0.212600	65
4	16.200	10.75	10.75	0.375	Butt Joint	0.000	0.000000	35

Discrete Appurtenance				
Attach Elev (ft)	Force Elev (ft)	Qty	Description	
136.000	139.000	6	Generic RCU (Remote Control)	
136.000	139.000	3	Kathrein Scala 742-218 / AP20-	
131.000	131.000	6	Ericsson RRUS 11 (Band 4)	
131.000	131.000	1	Raycap DC6-48-60-18-8F	
131.000	136.000	3	Powerwave Allgon P65-16-	
131.000	136.000	6	Powerwave Allgon LGP219nn	
131.000	131.000	6	Powerwave Allgon LGP21401	
131.000	131.000	6	Powerwave Allgon 7770.00	
131.000	131.000	1	Flat Platform w/ Handrails	
120.000	120.000	3	RFS RFS APXV9TM14-ALU-I20	
120.000	120.000	3	Alcatel-Lucent TD-RRH8x20-25	
120.000	120.000	3	Alcatel-Lucent 800 MHz 2X50W	
120.000	120.000	3	Alcatel-Lucent 1900 MHz 4x45	
120.000	120.000	3	RFS APXVSP18-C-A20	
120.000	120.000	3	Argus LLPX310R	
120.000	120.000	2	DragonWave Horizon Compact	
120.000	120.000	2	DragonWave A-ANT-18G-2-C	
120.000	120.000	3	NextNet BTS-2500	
120.000	120.000	1	Flat Platform w/ Handrails	
110.000	110.000	12	Swedcom ALP 9011-Din	
110.000	110.000	1	Flat Platform w/ Handrails	
100.000	104.000	1	GPS	
100.000	100.000	3	Antel BXA-171063/12CF_2 FP	
100.000	100.000	3	Antel BXA-70080/6CF_	
100.000	100.000	1	RFS DB-T1-6Z-8AB-0Z	
100.000	100.000	3	Alcatel-Lucent RRH2x40-AWS	
100.000	100.000	6	RFS FD9R6004/1C-3L	
100.000	100.000	3	Powerwave Allgon P65-16-XL-	
100.000	100.000	3	Rym sa MGD3-800TX	
100.000	100.000	1	Flat Platform w/ Handrails	
90.000	90.000	3	Andrew LNX-6515DS-VTM	
90.000	90.000	3	Ericsson RRUS 11 B12	
90.000	90.000	3	Ericsson AIR 21, 1.3M, B4A B2P	
90.000	90.000	4	Ericsson AIR 21, 1.3 M, B2A B4	
90.000	90.000	4	RFS ATMAA1412D-1A20	
90.000	90.000	1	Flat Platform w/ Handrails	
80.000	80.000	2	6' Omni	
80.000	80.000	2	Stand-Offs	
80.000	83.000	2	Diamond X50A	
70.000	70.000	1	Stand-Off	
70.000	70.000	1	PCTEL GPS-TMG-HR-26N	



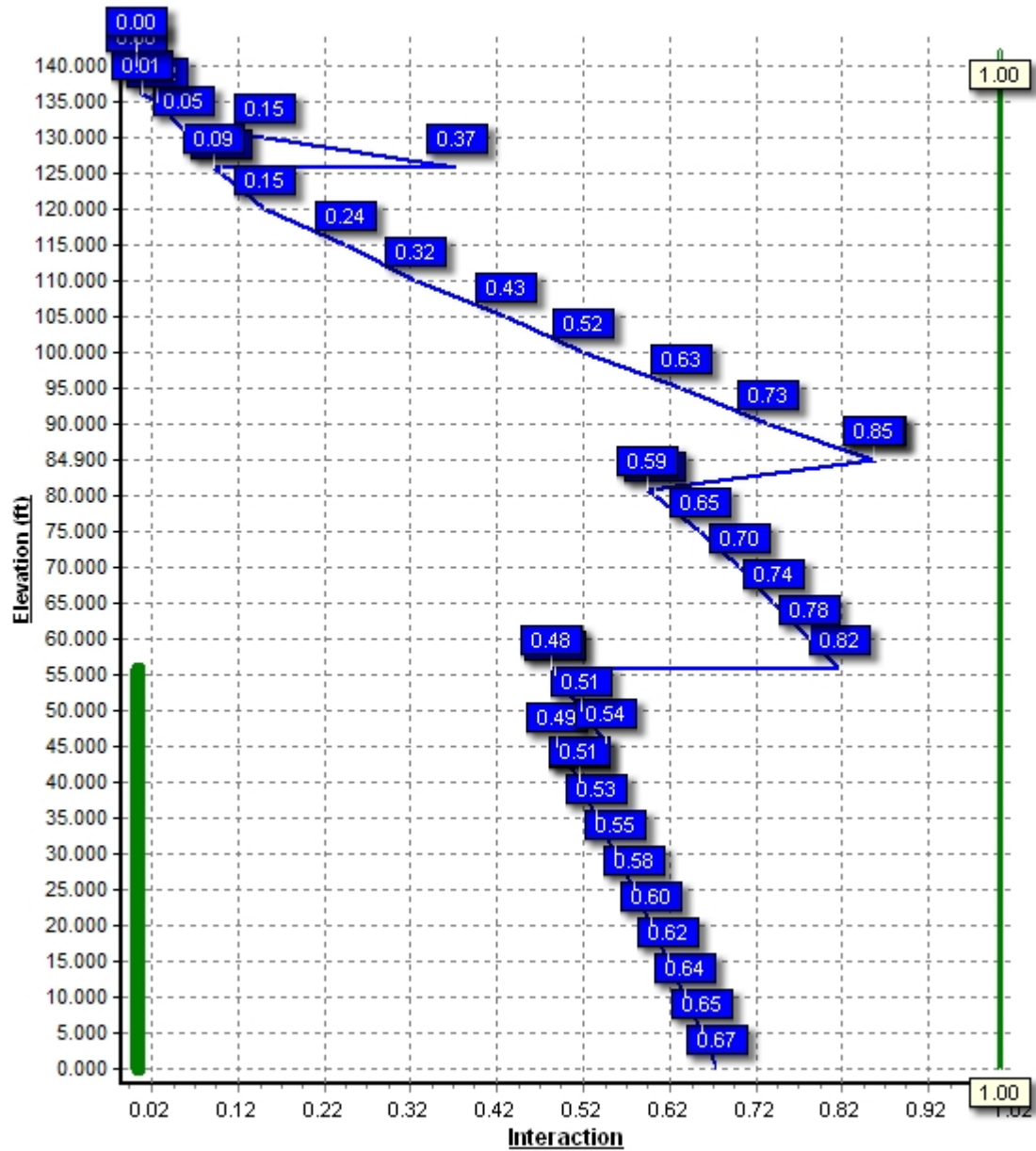
Linear Appurtenance			
Elev (ft)		Description	Exposed To Wind
From	To		
0.000	63.000	DYWIDAG	Yes
0.000	70.000	1/2" Coax	No
0.000	80.000	1/2" Coax	No
0.000	80.000	1/2" Coax	No
0.000	90.000	1 1/4" Fiber	No
0.000	90.000	1 5/8" Coax	Yes
0.000	100.0	1 5/8" Coax	No
0.000	100.0	1 5/8" Hybriflex	No
0.000	100.0	1/2" Coax	No
0.000	110.0	1 5/8" Coax	No
0.000	120.0	1 1/4" Hybriflex	No
0.000	120.0	1/2" Coax	No
0.000	120.0	2" Conduit	No
0.000	120.0	5/16" Coax	No
0.000	131.0	0.28" RG-6	No
0.000	131.0	0.65" 8 AWG 2C	No
0.000	131.0	1 1/4" Coax	No
0.000	136.0	1 5/8" Coax	Yes
0.000	136.0	3/8" Coax	No

Load Cases	
1.2D + 1.6W	110 mph with No Ice
0.9D + 1.6W	110 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	3705.43	41.26	50.04
0.9D + 1.6W	3613.52	40.03	37.51
1.2D + 1.0Di + 1.0Wi	668.08	6.95	82.17
(1.2 + 0.2Sds) * DL + E ELFM	191.30	1.79	50.01
(1.2 + 0.2Sds) * DL + E EMAM	143.62	1.65	50.01
(0.9 - 0.2Sds) * DL + E ELFM	188.67	1.79	34.20
(0.9 - 0.2Sds) * DL + E EMAM	141.46	1.64	34.20
1.0D + 1.0W	677.45	7.46	41.77

Dish Deflections			
Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
1.0D + 1.0W	120.00	14.255	1.186

**Load Case : 1.2D + 1.6W**  
**Max Ratio 107.48% at 84.9ft**



Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:26 AM

Customer: T-MOBILE

**Analysis Parameters**

Location:	Fairfield County, CT	Height (ft):	142
Code:	ANSI/TIA-222-G	Base Diameter (in):	45.00
Shape:	12 Sides. Sect 4: Round	Top Diameter (in):	10.75
Pole Type:	Custom	Taper (in/ft) :	0.213
Pole Manufacturer:	EI		

**Ice & Wind Parameters**

Structure Class:	II	Design Wind Speed Without Ice:	110 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):	2.14		
T <sub>L</sub> (sec):	6	p:	1.3
S <sub>s</sub> :	0.221	S <sub>1</sub> :	0.066
F <sub>a</sub> :	1.600	F <sub>v</sub> :	2.400
S <sub>ds</sub> :	0.236	S <sub>d1</sub> :	0.106
		C <sub>s</sub> :	0.033
		C <sub>s</sub> Max:	0.033
		C <sub>s</sub> Min:	0.030

**Load Cases**

1.2D + 1.6W	110 mph with No Ice
0.9D + 1.6W	110 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 ELFM	Seismic Equivalent Lateral Forces Method
(1.2 + 0.2Sds) * DL + E EMAM	Seismic Equivalent Modal Analysis Method
(0.9 - 0.2Sds) * DL + E ELFM	Seismic (Reduced DL) Equivalent Lateral Forces Method
(0.9 - 0.2Sds) * DL + E EMAM	Seismic (Reduced DL) Equivalent Modal Analysis Method
1.0D + 1.0W	Serviceability 60 mph

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:26 AM

Customer: T-MOBILE

**Shaft Section Properties**

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Slip Joint Len (in)	Weight (lb)	Bottom						Top						
							Dia (in)	Elev (ft)	Area (in <sup>2</sup> )	Ix (in <sup>4</sup> )	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (in <sup>2</sup> )	Ix (in <sup>4</sup> )	W/t Ratio	D/t Ratio	Taper (in/ft)
1-12	45.400	0.4375	65		0.00	8,648	45.00	0.00	62.78	15912.1	25.42	102.86	35.34	45.40	49.18	7649.3	19.50	80.79	0.212638
2-12	44.656	0.3750	65	Slip	61.88	5,884	37.19	40.24	44.46	7692.0	24.43	99.18	27.69	84.90	32.99	3143.5	17.65	73.86	0.212638
3-12	45.052	0.2500	65	Slip	49.81	2,967	29.08	80.75	23.21	2462.1	29.02	116.32	19.50	125.80	15.50	732.9	18.76	78.00	0.212638
4-R	16.200	0.3750	35	Butt	0.00	674	10.75	125.80	12.22	164.6	0.00	28.67	10.75	142.00	12.22	164.6	0.00	28.67	0.000000
Shaft Weight						18,173													

**Discrete Appurtenance Properties**

Attach Elev (ft)	Description	Qty	No Ice			Ice			Distance From Face (ft)	Vert Ecc (ft)
			Weight (lb)	EPAA (sf)	Orientation Factor	Weight (lb)	EPAA (sf)	Orientation Factor		
136.00	Generic RCU (Remote Control	6	1.00	0.160	0.33	11.01	0.359	0.33	0.000	3.000
136.00	Kathrein Scala 742-218 /	3	22.50	3.850	0.73	110.51	4.762	0.73	0.000	3.000
131.00	Ericsson RRUS 11 (Band 4)	6	44.00	2.570	0.50	123.98	3.205	0.50	0.000	0.000
131.00	Flat Platform w/ Handrails	1	2000.00	39.500	1.00	3,404.39	58.807	1.00	0.000	0.000
131.00	Powerwave Allgon 7770.00	6	35.00	5.510	0.65	167.80	6.544	0.65	0.000	0.000
131.00	Powerwave Allgon LGP21401	6	14.10	1.100	0.50	47.10	1.556	0.50	0.000	0.000
131.00	Powerwave Allgon LGP219nn	6	5.50	0.230	0.50	17.84	0.425	0.50	0.000	5.000
131.00	Powerwave Allgon P65-16-	3	53.00	8.130	0.67	241.48	9.410	0.67	0.000	5.000
131.00	Raycap DC6-48-60-18-8F	1	31.80	1.280	1.00	123.18	2.843	1.00	0.000	0.000
120.00	Alcatel-Lucent 1900 MHz	3	60.00	2.320	0.50	152.37	2.975	0.50	0.000	0.000
120.00	Alcatel-Lucent 800 MHz	3	64.00	2.060	0.50	152.13	2.640	0.50	0.000	0.000
120.00	Alcatel-Lucent TD-RRH8x20-	3	70.00	4.050	0.50	159.37	5.675	0.50	0.000	0.000
120.00	Argus LLPX310R	3	28.60	4.290	0.63	133.23	5.166	0.63	0.000	0.000
120.00	DragonWave A-ANT-18G-2-C	2	27.10	4.690	0.90	122.53	5.936	0.90	0.000	0.000
120.00	DragonWave Horizon	2	10.60	0.430	0.33	39.85	0.653	0.33	0.000	0.000
120.00	Flat Platform w/ Handrails	1	2000.00	39.500	1.00	3,389.73	58.605	1.00	0.000	0.000
120.00	NextNet BTS-2500	3	35.00	1.820	0.50	91.05	2.383	0.50	0.000	0.000
120.00	RFS APXVSP18-C-A20	3	57.00	8.020	0.69	250.96	9.281	0.69	0.000	0.000
120.00	RFS RFS APXV9TM14-ALU-I20	3	55.10	6.340	0.66	210.83	7.422	0.66	0.000	0.000
110.00	Flat Platform w/ Handrails	1	2000.00	42.400	1.00	3,377.42	62.727	1.00	0.000	0.000
110.00	Swedcom ALP 9011-Din	12	10.00	3.170	0.74	106.31	3.443	0.74	0.000	0.000
100.00	Alcatel-Lucent RRH2x40-AWS	3	44.00	2.160	0.50	113.66	2.774	0.50	0.000	0.000
100.00	Antel BXA-171063/12CF__2	3	15.00	4.790	0.72	128.79	5.957	0.72	0.000	0.000
100.00	Antel BXA-70080/6CF__	3	18.00	5.840	0.72	161.39	7.030	0.72	0.000	0.000
100.00	Flat Platform w/ Handrails	1	2000.00	39.600	1.00	3,364.04	58.400	1.00	0.000	0.000
100.00	GPS	1	10.00	1.000	0.50	46.34	0.921	0.50	0.000	4.000
100.00	Powerwave Allgon P65-16-	3	33.00	8.130	0.65	205.57	9.371	0.65	0.000	0.000
100.00	RFS DB-T1-6Z-8AB-0Z	1	44.00	4.800	1.00	175.07	5.634	1.00	0.000	0.000
100.00	RFS FD9R6004/1C-3L	6	3.10	0.370	0.33	15.39	0.568	0.33	0.000	0.000
100.00	RymSa MGD3-800TX	3	15.40	3.340	0.69	97.74	4.235	0.69	0.000	0.000
90.00	Andrew LNX-6515DS-VTM	3	51.30	11.430	0.70	298.51	13.005	0.70	0.000	0.000
90.00	Ericsson AIR 21, 1.3 M, B2A	4	83.00	6.050	0.71	241.54	7.087	0.71	0.000	0.000
90.00	Ericsson AIR 21, 1.3M, B4A	3	81.50	6.090	0.70	240.00	7.132	0.70	0.000	0.000
90.00	Ericsson RRUS 11 B12	3	50.70	2.790	0.50	131.59	3.431	0.50	0.000	0.000
90.00	Flat Platform w/ Handrails	1	2000.00	42.400	1.00	3,349.36	62.312	1.00	0.000	0.000
90.00	RFS ATMAA1412D-1A20	4	13.00	1.000	0.33	45.68	1.407	0.33	0.000	0.000
80.00	6' Omni	2	25.00	1.760	1.00	99.81	2.985	1.00	0.000	0.000
80.00	Diamond X50A	2	2.30	1.120	1.00	56.95	2.427	1.00	0.000	3.000
80.00	Stand-Offs	2	50.00	3.000	0.67	72.87	4.470	0.67	0.000	0.000
70.00	PCTEL GPS-TMG-HR-26N	1	0.60	0.090	1.00	9.93	0.257	1.00	0.000	0.000
70.00	Stand-Off	1	30.00	1.000	0.67	43.53	1.483	0.67	0.000	0.000
Totals		127	13728.90			31,427.93			Number of Loadings :	41

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:26 AM

Customer: T-MOBILE

**Linear Appurtenance Properties**

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Diameter (in)	Coax Weight (lb/ft)	Flat	Projected Width (in)	Exposed To Wind	Carrier
0.00	136.00	6	1 5/8" Coax	1.98	0.82	N	1.98	Y	Metro PCS
0.00	136.00	1	3/8" Coax	0.44	0.08	N	0.44	N	Metro PCS
0.00	131.00	1	0.28" RG-6	0.28	0.03	N	0.00	N	AT&T Mobility
0.00	131.00	2	0.65" 8 AWG 2C	0.65	0.31	N	0.00	N	AT&T Mobility
0.00	131.00	12	1 1/4" Coax	1.55	0.63	N	0.00	N	AT&T Mobility
0.00	120.00	4	1 1/4" Hybriflex	1.54	1.00	N	0.00	N	Sprint Nextel
0.00	120.00	2	1/2" Coax	0.63	0.15	N	0.00	N	Clearwire
0.00	120.00	1	2" Conduit	2.38	3.65	N	0.00	N	Clearwire
0.00	120.00	6	5/16" Coax	0.31	0.05	N	0.00	N	Clearwire
0.00	110.00	12	1 5/8" Coax	1.98	0.82	N	0.00	N	Sprint Nextel
0.00	100.00	12	1 5/8" Coax	1.98	0.82	N	0.00	N	Verizon
0.00	100.00	1	1 5/8" Hybriflex	1.98	1.30	N	0.00	N	Verizon
0.00	100.00	1	1/2" Coax	0.63	0.15	N	0.00	N	Verizon
0.00	90.00	1	1 1/4" Fiber	1.25	1.05	N	0.00	N	T-Mobile
0.00	90.00	14	1 5/8" Coax	1.98	0.82	N	3.96	Y	T-Mobile
0.00	80.00	2	1/2" Coax	0.63	0.15	N	0.00	N	Enertrac
0.00	80.00	2	1/2" Coax	0.63	0.15	N	0.00	N	Senet, Inc.
0.00	70.00	2	1/2" Coax	0.63	0.15	N	0.00	N	Sprint Nextel
0.00	63.00	4	DYWIDAG	4.00	0.00	N	2.50	Y	--

**Additional Steel**

Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Offset (in)	— Intermediate Connections —			Connectors	Continuation?
						Description	Spacing (in)	Len (in)		
0.00	55.68	4	SOL #20 All Thread	80	2.19	6" Angle Bracket	30.0	3.31	5/8" A36 U-Bolt	Yes

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:26 AM

Customer: T-MOBILE

**Segment Properties** (Max Len : 5.ft)

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in <sup>2</sup> )	Ix (in <sup>4</sup> )	W/t Ratio	D/t Ratio	Fy (ksi)	S (in <sup>3</sup> )	Z (in <sup>3</sup> )	Weight (lb)	Additional Reinforcing		
												Area (in <sup>2</sup> )	Ix (in <sup>4</sup> )	Weight (lb)
0.00		0.4375	45.000	62.777	15,912.1	25.42	102.86	77.0	683.1	0.0	0.0	19.64	6,615	0.0
5.00		0.4375	43.937	61.280	14,800.2	24.77	100.43	77.7	650.7	0.0	1,055.3	19.64	6,347	334.0
10.00		0.4375	42.874	59.782	13,741.3	24.11	98.00	78.4	619.2	0.0	1,029.9	19.64	6,084	334.0
15.00		0.4375	41.810	58.284	12,734.1	23.46	95.57	79.1	588.4	0.0	1,004.4	19.64	5,827	334.0
20.00		0.4375	40.747	56.786	11,777.4	22.81	93.14	79.8	558.4	0.0	978.9	19.64	5,576	334.0
25.00		0.4375	39.684	55.289	10,869.9	22.16	90.71	80.5	529.2	0.0	953.4	19.64	5,330	334.0
30.00		0.4375	38.621	53.791	10,010.2	21.51	88.28	81.3	500.7	0.0	927.9	19.64	5,090	334.0
35.00		0.4375	37.558	52.293	9,197.1	20.86	85.85	81.9	473.1	0.0	902.4	19.64	4,855	334.0
40.00		0.4375	36.494	50.795	8,429.2	20.21	83.42	81.9	446.2	0.0	877.0	19.64	4,626	334.0
40.24	Bot - Section 2	0.4375	36.443	50.722	8,392.9	20.18	83.30	81.9	444.9	0.0	42.1	19.64	4,615	16.3
45.00		0.4375	35.431	49.297	7,705.4	19.56	80.99	81.9	420.1	0.0	1,519.0	19.64	4,559	317.7
45.40	Top - Section 1	0.3750	36.096	43.133	7,025.1	23.65	96.26	78.9	376.0	0.0	125.8	19.64	4,542	26.7
50.00		0.3750	35.118	41.952	6,463.7	22.95	93.65	79.7	355.6	0.0	665.9	19.64	4,337	307.3
55.00		0.3750	34.055	40.668	5,888.2	22.19	90.81	80.5	334.0	0.0	702.9	19.64	4,121	334.0
55.68	Reinf. Top	0.3750	33.911	40.495	5,813.1	22.09	90.43	80.6	331.2	0.0	93.5	19.64	4,092	45.2
60.00		0.3750	32.992	39.385	5,348.0	21.43	87.98	81.3	313.2	0.0	587.5			
65.00		0.3750	31.929	38.101	4,841.9	20.67	85.14	81.9	293.0	0.0	659.2			
70.00		0.3750	30.865	36.817	4,368.8	19.91	82.31	81.9	273.4	0.0	637.3			
75.00		0.3750	29.802	35.533	3,927.5	19.15	79.47	81.9	254.6	0.0	615.5			
80.00		0.3750	28.739	34.249	3,517.0	18.39	76.64	81.9	236.4	0.0	593.6			
80.75	Bot - Section 3	0.3750	28.580	34.057	3,458.1	18.28	76.21	81.9	233.8	0.0	87.0			
84.90	Top - Section 2	0.2500	28.197	22.497	2,242.8	28.08	112.79	74.1	153.7	0.0	796.3			
85.00		0.2500	28.176	22.480	2,237.7	28.06	112.70	74.1	153.4	0.0	7.7			
90.00		0.2500	27.113	21.624	1,991.7	26.92	108.45	75.4	141.9	0.0	375.2			
95.00		0.2500	26.049	20.768	1,764.4	25.78	104.20	76.6	130.9	0.0	360.6			
100.0		0.2500	24.986	19.913	1,555.2	24.64	99.94	77.8	120.2	0.0	346.1			
105.0		0.2500	23.923	19.057	1,363.1	23.50	95.69	79.1	110.1	0.0	331.5			
110.0		0.2500	22.860	18.201	1,187.6	22.36	91.44	80.3	100.4	0.0	316.9			
115.0		0.2500	21.797	17.345	1,027.8	21.22	87.19	81.6	91.1	0.0	302.4			
120.0		0.2500	20.733	16.489	883.1	20.08	82.93	81.9	82.3	0.0	287.8			
125.0		0.2500	19.670	15.633	752.6	18.94	78.68	81.9	73.9	0.0	273.3			
125.8	Top - Section 3	0.2500	19.500	15.496	732.9	18.76	78.00	81.9	72.6	0.0	42.4			
125.8	Bot - Section 4	0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	40.4				
130.0		0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	40.4	174.7			
131.0		0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	40.4	41.6			
135.0		0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	40.4	166.4			
136.0		0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	40.4	41.6			
140.0		0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	40.4	166.4			
142.0		0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	40.4	83.2			
											18,172.5			
												3,719.2		



Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:26 AM

Customer: T-MOBILE

<b>Load Case:</b> 1.2D + 1.6W	110 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		

**Shaft Segment Forces (Factored)**

Seg Top Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Ap (sf)	EPAs (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	20.599	22.65	357.29	1.000	0.000	0.00	0.000	0.00	434.6	0.0	0.0
5.00		1.00	0.70	20.599	22.65	353.07	1.250	* 0.000	5.00	19.182	23.98	863.5	0.0	1,266.4
10.00		1.00	0.70	20.599	22.65	344.63	1.263	* 0.000	5.00	18.723	23.66	851.8	0.0	1,235.8
15.00		1.00	0.70	20.599	22.65	336.19	1.278	* 0.000	5.00	18.265	23.34	840.2	0.0	1,205.3
20.00		1.00	0.70	20.599	22.65	327.75	1.292	* 0.000	5.00	17.806	23.01	794.5	0.0	1,174.7
25.00		1.00	0.70	20.599	22.65	319.30	1.200	* 0.000	5.00	17.348	20.82	744.7	0.0	1,144.1
30.00		1.00	0.70	20.599	22.65	310.86	1.200	* 0.000	5.00	16.889	20.27	733.4	0.0	1,113.5
35.00		1.00	0.71	21.093	23.20	306.03	1.200	* 0.000	5.00	16.430	19.72	736.6	0.0	1,082.9
40.00		1.00	0.74	21.974	24.17	303.63	1.200	* 0.000	5.00	15.972	19.17	388.7	0.0	1,052.4
40.24	Bot - Section 2	1.00	0.76	22.402	24.64	301.96	1.200	* 0.000	0.24	0.767	0.92	380.5	0.0	50.5
45.00		1.00	0.77	22.792	25.07	300.14	1.200	* 0.000	4.76	15.054	18.07	392.9	0.0	1,822.9
45.40	Top - Section 1	1.00	0.78	23.178	25.49	298.05	1.200	* 0.000	0.40	1.247	1.50	381.8	0.0	150.9
50.00		1.00	0.80	23.537	25.89	302.21	1.200	* 0.000	4.60	14.131	16.96	732.4	0.0	799.1
55.00		1.00	0.82	24.191	26.61	297.59	1.200	* 0.000	5.00	14.919	17.90	432.6	0.0	843.4
55.68	Reinf. Top	1.00	0.83	24.558	27.01	294.61	1.200	* 0.000	0.68	1.985	2.38	379.1	0.0	112.2
60.00		1.00	0.84	24.870	27.35	291.83	1.200	* 0.000	4.32	12.476	14.97	703.6	0.0	705.0
65.00		1.00	0.86	25.427	27.96	286.34	1.200	* 0.000	5.00	14.002	16.80	762.6	0.0	791.0
70.00	Appertunance(s)	1.00	0.88	25.992	28.59	280.02	1.248	* 0.000	5.00	13.544	16.91	773.8	0.0	764.8
75.00		1.00	0.90	26.528	29.18	273.32	1.267	* 0.000	5.00	13.085	16.58	774.1	0.0	738.6
80.00	Appertunance(s)	1.00	0.91	27.038	29.74	266.26	1.288	* 0.000	5.00	12.626	16.26	440.4	0.0	712.4
80.75	Bot - Section 3	1.00	0.92	27.321	30.05	262.06	1.200	* 0.000	0.75	1.851	2.22	351.8	0.0	104.4
84.90	Top - Section 2	1.00	0.93	27.556	30.31	258.40	1.200	* 0.000	4.15	10.256	12.31	305.6	0.0	955.6
85.00		1.00	0.94	27.757	30.53	259.78	1.200	* 0.000	0.10	0.244	0.29	359.7	0.0	9.2
90.00	Appertunance(s)	1.00	0.95	27.992	30.79	255.86	1.200	* 0.000	5.00	11.925	14.31	639.5	0.0	450.2
95.00		1.00	0.96	28.440	31.28	247.98	1.000	0.000	5.00	11.466	11.47	566.6	0.0	432.8
100.0	Appertunance(s)	1.00	0.98	28.871	31.75	239.86	1.000	0.000	5.00	11.007	11.01	551.5	0.0	415.3
105.0		1.00	0.99	29.287	32.21	231.52	1.000	0.000	5.00	10.549	10.55	535.5	0.0	397.8
110.0	Appertunance(s)	1.00	1.00	29.688	32.65	222.96	1.000	0.000	5.00	10.090	10.09	518.5	0.0	380.3
115.0		1.00	1.02	30.076	33.08	214.21	1.000	0.000	5.00	9.632	9.63	500.7	0.0	362.9
120.0	Appertunance(s)	1.00	1.03	30.452	33.49	205.29	1.000	0.000	5.00	9.173	9.17	482.1	0.0	345.4
125.0		1.00	1.04	30.817	33.89	196.19	1.000	0.000	5.00	8.714	8.71	273.2	0.0	327.9
125.8	Top - Section 3	1.00	1.05	31.024	34.12	190.83	1.000	0.000	0.80	1.353	1.35	114.6	0.0	50.9
130.0		1.00	1.06	31.199	34.31	101.46	0.752	* 0.000	4.20	3.762	2.83	96.2	0.0	209.6
131.0	Appertunance(s)	1.00	1.06	31.379	34.51	101.75	0.752	* 0.000	1.00	0.896	0.67	93.4	0.0	49.9
135.0		1.00	1.07	31.550	34.70	102.03	0.752	* 0.000	4.00	3.583	2.69	93.6	0.0	199.6
136.0	Appertunance(s)	1.00	1.07	31.718	34.89	102.30	0.752	* 0.000	1.00	0.896	0.67	79.1	0.0	49.9
140.0		1.00	1.08	31.884	35.07	102.57	0.600	0.000	4.00	3.583	2.15	90.7	0.0	199.6
142.0		1.00	1.09	32.081	35.28	102.88	0.600	0.000	2.00	1.792	1.08	30.3	0.0	99.8
* = Cf Adjusted By Linear Load Ra Effect								Totals:	142.00			18,224.5	0.0	21,807.0

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:27 AM

Customer: T-MOBILE

**Load Case:** 1.2D + 1.6W

110 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

**Discrete Appurtenance Segment Forces (Factored)**

Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orientation Factor	Ka	Total EPAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
70.00	PCTEL GPS-TMG-HR-	1	26.263	28.890	1.00	1.00	0.09	0.000	0.000	4.16	0.00	0.00	0.72
70.00	Stand-Off	1	26.263	28.890	0.67	1.00	0.67	0.000	0.000	30.97	0.00	0.00	36.00
80.00	Diamond X50A	2	27.573	30.331	1.00	1.00	2.24	0.000	3.000	108.70	0.00	326.11	5.52
80.00	6' Omni	2	27.285	30.013	1.00	1.00	3.52	0.000	0.000	169.03	0.00	0.00	60.00
80.00	Stand-Offs	2	27.285	30.013	0.67	1.00	4.02	0.000	0.000	193.04	0.00	0.00	120.00
90.00	RFS ATMAA1412D-	4	28.219	31.040	0.33	0.75	0.99	0.000	0.000	49.17	0.00	0.00	62.40
90.00	Ericsson RRUS 11 B12	3	28.219	31.040	0.50	0.75	3.14	0.000	0.000	155.88	0.00	0.00	182.52
90.00	Ericsson AIR 21, 1,3	4	28.219	31.040	0.71	0.75	12.89	0.000	0.000	640.00	0.00	0.00	398.40
90.00	Ericsson AIR 21, 1,3	3	28.219	31.040	0.70	0.75	9.59	0.000	0.000	476.37	0.00	0.00	293.40
90.00	Andrew LNX-6515DS-	3	28.219	31.040	0.70	0.75	18.00	0.000	0.000	894.07	0.00	0.00	184.68
90.00	Flat Platform w/ Han	1	28.219	31.040	1.00	1.00	42.40	0.000	0.000	2,105.77	0.00	0.00	2,400.00
100.0	RFS FD9R6004/1C-3L	6	29.081	31.989	0.33	0.75	0.55	0.000	0.000	28.12	0.00	0.00	22.32
100.0	GPS	1	29.409	32.349	0.50	0.75	0.38	0.000	4.000	19.41	0.00	77.64	12.00
100.0	Alcatel-Lucent RRH2x	3	29.081	31.989	0.50	0.75	2.43	0.000	0.000	124.37	0.00	0.00	158.40
100.0	Rymssa MGD3-800TX	3	29.081	31.989	0.69	0.75	5.19	0.000	0.000	265.40	0.00	0.00	55.44
100.0	Antel BXA-171063/12C	3	29.081	31.989	0.72	0.75	7.76	0.000	0.000	397.16	0.00	0.00	54.00
100.0	RFS DB-T1-6Z-8AB-0Z	1	29.081	31.989	1.00	0.75	3.60	0.000	0.000	184.26	0.00	0.00	52.80
100.0	Antel BXA-70080/6CF_	3	29.081	31.989	0.72	0.75	9.46	0.000	0.000	484.23	0.00	0.00	64.80
100.0	Powerwave Allgon	3	29.081	31.989	0.65	0.75	11.89	0.000	0.000	608.56	0.00	0.00	118.80
100.0	Flat Platform w/ Han	1	29.081	31.989	1.00	1.00	39.60	0.000	0.000	2,026.82	0.00	0.00	2,400.00
110.0	Swedcom ALP 9011-	12	29.884	32.872	0.74	0.75	21.11	0.000	0.000	1,110.40	0.00	0.00	144.00
110.0	Flat Platform w/ Han	1	29.884	32.872	1.00	1.00	42.40	0.000	0.000	2,230.03	0.00	0.00	2,400.00
120.0	DragonWave Horizon	2	30.636	33.699	0.33	0.75	0.21	0.000	0.000	11.48	0.00	0.00	25.44
120.0	NextNet BTS-2500	3	30.636	33.699	0.50	0.75	2.05	0.000	0.000	110.40	0.00	0.00	126.00
120.0	Alcatel-Lucent 800 M	3	30.636	33.699	0.50	0.75	2.32	0.000	0.000	124.96	0.00	0.00	230.40
120.0	Alcatel-Lucent 1900	3	30.636	33.699	0.50	0.75	2.61	0.000	0.000	140.73	0.00	0.00	216.00
120.0	Alcatel-Lucent TD-RR	3	30.636	33.699	0.50	0.75	4.56	0.000	0.000	245.67	0.00	0.00	252.00
120.0	Argus LLPX310R	3	30.636	33.699	0.63	0.75	6.08	0.000	0.000	327.89	0.00	0.00	102.96
120.0	DragonWave A-ANT-	2	30.636	33.699	0.90	0.75	6.33	0.000	0.000	341.39	0.00	0.00	65.04
120.0	RFS RFS APXV9TM14-	3	30.636	33.699	0.66	0.75	9.41	0.000	0.000	507.64	0.00	0.00	198.36
120.0	RFS APXVSPP18-C-	3	30.636	33.699	0.69	0.75	12.45	0.000	0.000	671.35	0.00	0.00	205.20
120.0	Flat Platform w/ Han	1	30.636	33.699	1.00	1.00	39.50	0.000	0.000	2,129.81	0.00	0.00	2,400.00
131.0	Powerwave Allgon	6	31.751	34.926	0.50	0.75	0.52	0.000	5.000	28.92	0.00	144.60	39.60
131.0	Powerwave Allgon	6	31.413	34.555	0.50	0.75	2.48	0.000	0.000	136.84	0.00	0.00	101.52
131.0	Raycap DC6-48-60-18-	1	31.413	34.555	1.00	0.75	0.96	0.000	0.000	53.08	0.00	0.00	38.16
131.0	Ericsson RRUS 11 (Ba	6	31.413	34.555	0.50	0.75	5.78	0.000	0.000	319.70	0.00	0.00	316.80
131.0	Powerwave Allgon 777	6	31.413	34.555	0.65	0.75	16.12	0.000	0.000	891.05	0.00	0.00	252.00
131.0	Powerwave Allgon	3	31.751	34.926	0.67	0.75	12.26	0.000	5.000	684.89	0.00	3,424.46	190.80
131.0	Flat Platform w/ Han	1	31.413	34.555	1.00	1.00	39.50	0.000	0.000	2,183.85	0.00	0.00	2,400.00
136.0	Generic RCU (Remote	6	31.950	35.145	0.33	0.80	0.25	0.000	3.000	14.25	0.00	42.75	7.20
136.0	Kathrein Scala 742-2	3	31.950	35.145	0.73	0.80	6.75	0.000	3.000	379.29	0.00	1,137.88	81.00
										21,609.14			16,474.68

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:27 AM

Customer: T-MOBILE

**Load Case: 1.2D + 1.6W**

110 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

**Linear Appurtenance Segment Forces (Factored)**

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	qz (psf)	Ra	Cf Adjust Factor	FX (lb)	Dead Load (lb)
5.00	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	20.599	0.183	1.250	0.00	29.52
5.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.82	0.00	0.000	0.000	0.000	0.00	400.80
5.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	20.599	0.183	1.250	0.00	0.48
5.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	20.599	0.183	1.250	0.00	0.17
5.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	20.599	0.183	1.250	0.00	3.72
5.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.183	1.250	0.00	45.35
5.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	20.599	0.183	1.250	0.00	24.00
5.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.183	1.250	0.00	1.80
5.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	20.599	0.183	1.250	0.00	21.90
5.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.183	1.250	0.00	1.62
5.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.183	1.250	0.00	59.03
5.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.183	1.250	0.00	59.03
5.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	20.599	0.183	1.250	0.00	7.80
5.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.183	1.250	0.00	0.90
5.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	20.599	0.183	1.250	0.00	6.30
5.00	(14) 1 5/8" Coax	Yes	5.00	0.00	3.96	1.65	0.00	20.599	0.183	1.250	0.00	68.87
5.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.183	1.250	0.00	1.80
5.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.183	1.250	0.00	1.80
5.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.183	1.250	0.00	1.80
5.00	(4) DYWIDAG	Yes	5.00	0.00	2.50	1.04	0.00	20.599	0.183	1.250	0.00	0.00
10.00	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	20.599	0.188	1.263	0.00	29.52
10.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.82	0.00	0.000	0.000	0.000	0.00	400.80
10.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	20.599	0.188	1.263	0.00	0.48
10.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	20.599	0.188	1.263	0.00	0.17
10.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	20.599	0.188	1.263	0.00	3.72
10.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.188	1.263	0.00	45.35
10.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	20.599	0.188	1.263	0.00	24.00
10.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.188	1.263	0.00	1.80
10.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	20.599	0.188	1.263	0.00	21.90
10.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.188	1.263	0.00	1.62
10.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.188	1.263	0.00	59.03
10.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.188	1.263	0.00	59.03
10.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	20.599	0.188	1.263	0.00	7.80
10.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.188	1.263	0.00	0.90
10.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	20.599	0.188	1.263	0.00	6.30
10.00	(14) 1 5/8" Coax	Yes	5.00	0.00	3.96	1.65	0.00	20.599	0.188	1.263	0.00	68.87
10.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.188	1.263	0.00	1.80
10.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.188	1.263	0.00	1.80
10.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.188	1.263	0.00	1.80
10.00	(4) DYWIDAG	Yes	5.00	0.00	2.50	1.04	0.00	20.599	0.188	1.263	0.00	0.00
15.00	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	20.599	0.193	1.278	0.00	29.52
15.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.82	0.00	0.000	0.000	0.000	0.00	400.80
15.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	20.599	0.193	1.278	0.00	0.48
15.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	20.599	0.193	1.278	0.00	0.17
15.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	20.599	0.193	1.278	0.00	3.72
15.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.193	1.278	0.00	45.35
15.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	20.599	0.193	1.278	0.00	24.00
15.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.193	1.278	0.00	1.80
15.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	20.599	0.193	1.278	0.00	21.90
15.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.193	1.278	0.00	1.62
15.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.193	1.278	0.00	59.03

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:27 AM

Customer: T-MOBILE

**Load Case: 1.2D + 1.6W**

110 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

15.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.193	1.278	0.00	59.03
15.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	20.599	0.193	1.278	0.00	7.80
15.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.193	1.278	0.00	0.90
15.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	20.599	0.193	1.278	0.00	6.30
15.00	(14) 1 5/8" Coax	Yes	5.00	0.00	3.96	1.65	0.00	20.599	0.193	1.278	0.00	68.87
15.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.193	1.278	0.00	1.80
15.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.193	1.278	0.00	1.80
15.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.193	1.278	0.00	1.80
15.00	(4) DYWIDAG	Yes	5.00	0.00	2.50	1.04	0.00	20.599	0.193	1.278	0.00	0.00
20.00	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	20.599	0.197	1.292	0.00	29.52
20.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.82	0.00	0.000	0.000	0.000	0.00	400.80
20.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	20.599	0.197	1.292	0.00	0.48
20.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	20.599	0.197	1.292	0.00	0.17
20.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	20.599	0.197	1.292	0.00	3.72
20.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.197	1.292	0.00	45.35
20.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	20.599	0.197	1.292	0.00	24.00
20.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.197	1.292	0.00	1.80
20.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	20.599	0.197	1.292	0.00	21.90
20.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.197	1.292	0.00	1.62
20.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.197	1.292	0.00	59.03
20.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.197	1.292	0.00	59.03
20.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	20.599	0.197	1.292	0.00	7.80
20.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.197	1.292	0.00	0.90
20.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	20.599	0.197	1.292	0.00	6.30
20.00	(14) 1 5/8" Coax	Yes	5.00	0.00	3.96	1.65	0.00	20.599	0.197	1.292	0.00	68.87
20.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.197	1.292	0.00	1.80
20.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.197	1.292	0.00	1.80
20.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.197	1.292	0.00	1.80
20.00	(4) DYWIDAG	Yes	5.00	0.00	2.50	1.04	0.00	20.599	0.197	1.292	0.00	0.00
25.00	(6) 1 5/8" Coax	Yes	5.00	1.20	1.98	0.82	0.99	20.599	0.203	0.000	35.89	29.52
25.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.82	0.00	0.000	0.000	0.000	0.00	400.80
25.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	20.599	0.203	0.000	0.00	0.48
25.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	20.599	0.203	0.000	0.00	0.17
25.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	20.599	0.203	0.000	0.00	3.72
25.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.203	0.000	0.00	45.35
25.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	20.599	0.203	0.000	0.00	24.00
25.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.203	0.000	0.00	1.80
25.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	20.599	0.203	0.000	0.00	21.90
25.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.203	0.000	0.00	1.62
25.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.203	0.000	0.00	59.03
25.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.203	0.000	0.00	59.03
25.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	20.599	0.203	0.000	0.00	7.80
25.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.203	0.000	0.00	0.90
25.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	20.599	0.203	0.000	0.00	6.30
25.00	(14) 1 5/8" Coax	Yes	5.00	1.20	3.96	1.65	1.98	20.599	0.203	0.000	71.78	68.87
25.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.203	0.000	0.00	1.80
25.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.203	0.000	0.00	1.80
25.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.203	0.000	0.00	1.80
25.00	(4) DYWIDAG	Yes	5.00	1.20	2.50	1.04	1.25	20.599	0.203	0.000	45.32	0.00
30.00	(6) 1 5/8" Coax	Yes	5.00	1.20	1.98	0.82	0.99	20.599	0.208	0.000	35.89	29.52
30.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.82	0.00	0.000	0.000	0.000	0.00	400.80
30.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	20.599	0.208	0.000	0.00	0.48
30.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	20.599	0.208	0.000	0.00	0.17
30.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	20.599	0.208	0.000	0.00	3.72
30.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.208	0.000	0.00	45.35
30.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	20.599	0.208	0.000	0.00	24.00
30.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.208	0.000	0.00	1.80

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:27 AM

Customer: T-MOBILE

**Load Case: 1.2D + 1.6W**

110 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

30.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	20.599	0.208	0.000	0.00	21.90
30.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.208	0.000	0.00	1.62
30.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.208	0.000	0.00	59.03
30.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.208	0.000	0.00	59.03
30.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	20.599	0.208	0.000	0.00	7.80
30.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.208	0.000	0.00	0.90
30.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	20.599	0.208	0.000	0.00	6.30
30.00	(14) 1 5/8" Coax	Yes	5.00	1.20	3.96	1.65	1.98	20.599	0.208	0.000	71.78	68.87
30.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.208	0.000	0.00	1.80
30.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.208	0.000	0.00	1.80
30.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.208	0.000	0.00	1.80
30.00	(4) DYWIDAG	Yes	5.00	1.20	2.50	1.04	1.25	20.599	0.208	0.000	45.32	0.00
35.00	(6) 1 5/8" Coax	Yes	5.00	1.20	1.98	0.82	0.99	21.093	0.214	0.000	36.75	29.52
35.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.82	0.00	0.000	0.000	0.000	0.00	400.80
35.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	21.093	0.214	0.000	0.00	0.48
35.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	21.093	0.214	0.000	0.00	0.17
35.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	21.093	0.214	0.000	0.00	3.72
35.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	21.093	0.214	0.000	0.00	45.35
35.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	21.093	0.214	0.000	0.00	24.00
35.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	21.093	0.214	0.000	0.00	1.80
35.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	21.093	0.214	0.000	0.00	21.90
35.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	21.093	0.214	0.000	0.00	1.62
35.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	21.093	0.214	0.000	0.00	59.03
35.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	21.093	0.214	0.000	0.00	59.03
35.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	21.093	0.214	0.000	0.00	7.80
35.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	21.093	0.214	0.000	0.00	0.90
35.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	21.093	0.214	0.000	0.00	6.30
35.00	(14) 1 5/8" Coax	Yes	5.00	1.20	3.96	1.65	1.98	21.093	0.214	0.000	73.51	68.87
35.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	21.093	0.214	0.000	0.00	1.80
35.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	21.093	0.214	0.000	0.00	1.80
35.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	21.093	0.214	0.000	0.00	1.80
35.00	(4) DYWIDAG	Yes	5.00	1.20	2.50	1.04	1.25	21.093	0.214	0.000	46.41	0.00
40.00	(6) 1 5/8" Coax	Yes	5.00	1.20	1.98	0.82	0.99	21.974	0.220	0.000	38.29	29.52
40.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.82	0.00	0.000	0.000	0.000	0.00	400.80
40.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	21.974	0.220	0.000	0.00	0.48
40.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	21.974	0.220	0.000	0.00	0.17
40.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	21.974	0.220	0.000	0.00	3.72
40.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	21.974	0.220	0.000	0.00	45.35
40.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	21.974	0.220	0.000	0.00	24.00
40.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	21.974	0.220	0.000	0.00	1.80
40.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	21.974	0.220	0.000	0.00	21.90
40.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	21.974	0.220	0.000	0.00	1.62
40.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	21.974	0.220	0.000	0.00	59.03
40.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	21.974	0.220	0.000	0.00	59.03
40.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	21.974	0.220	0.000	0.00	7.80
40.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	21.974	0.220	0.000	0.00	0.90
40.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	21.974	0.220	0.000	0.00	6.30
40.00	(14) 1 5/8" Coax	Yes	5.00	1.20	3.96	1.65	1.98	21.974	0.220	0.000	76.57	68.87
40.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	21.974	0.220	0.000	0.00	1.80
40.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	21.974	0.220	0.000	0.00	1.80
40.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	21.974	0.220	0.000	0.00	1.80
40.00	(4) DYWIDAG	Yes	5.00	1.20	2.50	1.04	1.25	21.974	0.220	0.000	48.34	0.00
40.24	(6) 1 5/8" Coax	Yes	0.24	1.20	1.98	0.04	0.05	22.402	0.224	0.000	1.90	1.44
40.24	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.04	0.00	0.000	0.000	0.000	0.00	19.53
40.24	(1) 3/8" Coax	No	0.24	0.00	0.44	0.00	0.00	22.402	0.224	0.000	0.00	0.02
40.24	(1) 0.28" RG-6	No	0.24	0.00	0.00	0.00	0.00	22.402	0.224	0.000	0.00	0.01
40.24	(2) 0.65" 8 AWG 2C	No	0.24	0.00	0.00	0.00	0.00	22.402	0.224	0.000	0.00	0.18

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:27 AM

Customer: T-MOBILE

**Load Case: 1.2D + 1.6W**

110 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

40.24	(12) 1 1/4" Coax	No	0.24	0.00	0.00	0.00	0.00	22.402	0.224	0.000	0.00	2.21
40.24	(4) 1 1/4" Hybriflex	No	0.24	0.00	0.00	0.00	0.00	22.402	0.224	0.000	0.00	1.17
40.24	(2) 1/2" Coax	No	0.24	0.00	0.00	0.00	0.00	22.402	0.224	0.000	0.00	0.09
40.24	(1) 2" Conduit	No	0.24	0.00	0.00	0.00	0.00	22.402	0.224	0.000	0.00	1.07
40.24	(6) 5/16" Coax	No	0.24	0.00	0.00	0.00	0.00	22.402	0.224	0.000	0.00	0.08
40.24	(12) 1 5/8" Coax	No	0.24	0.00	0.00	0.00	0.00	22.402	0.224	0.000	0.00	2.88
40.24	(12) 1 5/8" Coax	No	0.24	0.00	0.00	0.00	0.00	22.402	0.224	0.000	0.00	2.88
40.24	(1) 1 5/8" Hybriflex	No	0.24	0.00	0.00	0.00	0.00	22.402	0.224	0.000	0.00	0.38
40.24	(1) 1/2" Coax	No	0.24	0.00	0.00	0.00	0.00	22.402	0.224	0.000	0.00	0.04
40.24	(1) 1 1/4" Fiber	No	0.24	0.00	0.00	0.00	0.00	22.402	0.224	0.000	0.00	0.31
40.24	(14) 1 5/8" Coax	Yes	0.24	1.20	3.96	0.08	0.10	22.402	0.224	0.000	3.80	3.36
40.24	(2) 1/2" Coax	No	0.24	0.00	0.00	0.00	0.00	22.402	0.224	0.000	0.00	0.09
40.24	(2) 1/2" Coax	No	0.24	0.00	0.00	0.00	0.00	22.402	0.224	0.000	0.00	0.09
40.24	(2) 1/2" Coax	No	0.24	0.00	0.00	0.00	0.00	22.402	0.224	0.000	0.00	0.09
40.24	(4) DYWIDAG	Yes	0.24	1.20	2.50	0.05	0.06	22.402	0.224	0.000	2.40	0.00
45.00	(6) 1 5/8" Coax	Yes	4.76	1.20	1.98	0.78	0.94	22.792	0.227	0.000	37.78	28.08
45.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.78	0.00	0.000	0.000	0.000	0.00	381.27
45.00	(1) 3/8" Coax	No	4.76	0.00	0.44	0.00	0.00	22.792	0.227	0.000	0.00	0.46
45.00	(1) 0.28" RG-6	No	4.76	0.00	0.00	0.00	0.00	22.792	0.227	0.000	0.00	0.16
45.00	(2) 0.65" 8 AWG 2C	No	4.76	0.00	0.00	0.00	0.00	22.792	0.227	0.000	0.00	3.54
45.00	(12) 1 1/4" Coax	No	4.76	0.00	0.00	0.00	0.00	22.792	0.227	0.000	0.00	43.14
45.00	(4) 1 1/4" Hybriflex	No	4.76	0.00	0.00	0.00	0.00	22.792	0.227	0.000	0.00	22.83
45.00	(2) 1/2" Coax	No	4.76	0.00	0.00	0.00	0.00	22.792	0.227	0.000	0.00	1.71
45.00	(1) 2" Conduit	No	4.76	0.00	0.00	0.00	0.00	22.792	0.227	0.000	0.00	20.83
45.00	(6) 5/16" Coax	No	4.76	0.00	0.00	0.00	0.00	22.792	0.227	0.000	0.00	1.54
45.00	(12) 1 5/8" Coax	No	4.76	0.00	0.00	0.00	0.00	22.792	0.227	0.000	0.00	56.16
45.00	(12) 1 5/8" Coax	No	4.76	0.00	0.00	0.00	0.00	22.792	0.227	0.000	0.00	56.16
45.00	(1) 1 5/8" Hybriflex	No	4.76	0.00	0.00	0.00	0.00	22.792	0.227	0.000	0.00	7.42
45.00	(1) 1/2" Coax	No	4.76	0.00	0.00	0.00	0.00	22.792	0.227	0.000	0.00	0.86
45.00	(1) 1 1/4" Fiber	No	4.76	0.00	0.00	0.00	0.00	22.792	0.227	0.000	0.00	5.99
45.00	(14) 1 5/8" Coax	Yes	4.76	1.20	3.96	1.57	1.88	22.792	0.227	0.000	75.56	65.52
45.00	(2) 1/2" Coax	No	4.76	0.00	0.00	0.00	0.00	22.792	0.227	0.000	0.00	1.71
45.00	(2) 1/2" Coax	No	4.76	0.00	0.00	0.00	0.00	22.792	0.227	0.000	0.00	1.71
45.00	(2) 1/2" Coax	No	4.76	0.00	0.00	0.00	0.00	22.792	0.227	0.000	0.00	1.71
45.00	(4) DYWIDAG	Yes	4.76	1.20	2.50	0.99	1.19	22.792	0.227	0.000	47.70	0.00
45.40	(6) 1 5/8" Coax	Yes	0.40	1.20	1.98	0.07	0.08	23.178	0.230	0.000	3.23	2.36
45.40	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.07	0.00	0.000	0.000	0.000	0.00	32.06
45.40	(1) 3/8" Coax	No	0.40	0.00	0.44	0.00	0.00	23.178	0.230	0.000	0.00	0.04
45.40	(1) 0.28" RG-6	No	0.40	0.00	0.00	0.00	0.00	23.178	0.230	0.000	0.00	0.01
45.40	(2) 0.65" 8 AWG 2C	No	0.40	0.00	0.00	0.00	0.00	23.178	0.230	0.000	0.00	0.30
45.40	(12) 1 1/4" Coax	No	0.40	0.00	0.00	0.00	0.00	23.178	0.230	0.000	0.00	3.63
45.40	(4) 1 1/4" Hybriflex	No	0.40	0.00	0.00	0.00	0.00	23.178	0.230	0.000	0.00	1.92
45.40	(2) 1/2" Coax	No	0.40	0.00	0.00	0.00	0.00	23.178	0.230	0.000	0.00	0.14
45.40	(1) 2" Conduit	No	0.40	0.00	0.00	0.00	0.00	23.178	0.230	0.000	0.00	1.75
45.40	(6) 5/16" Coax	No	0.40	0.00	0.00	0.00	0.00	23.178	0.230	0.000	0.00	0.13
45.40	(12) 1 5/8" Coax	No	0.40	0.00	0.00	0.00	0.00	23.178	0.230	0.000	0.00	4.72
45.40	(12) 1 5/8" Coax	No	0.40	0.00	0.00	0.00	0.00	23.178	0.230	0.000	0.00	4.72
45.40	(1) 1 5/8" Hybriflex	No	0.40	0.00	0.00	0.00	0.00	23.178	0.230	0.000	0.00	0.62
45.40	(1) 1/2" Coax	No	0.40	0.00	0.00	0.00	0.00	23.178	0.230	0.000	0.00	0.07
45.40	(1) 1 1/4" Fiber	No	0.40	0.00	0.00	0.00	0.00	23.178	0.230	0.000	0.00	0.50
45.40	(14) 1 5/8" Coax	Yes	0.40	1.19	3.96	0.13	0.16	23.178	0.230	0.000	6.42	5.51
45.40	(2) 1/2" Coax	No	0.40	0.00	0.00	0.00	0.00	23.178	0.230	0.000	0.00	0.14
45.40	(2) 1/2" Coax	No	0.40	0.00	0.00	0.00	0.00	23.178	0.230	0.000	0.00	0.14
45.40	(2) 1/2" Coax	No	0.40	0.00	0.00	0.00	0.00	23.178	0.230	0.000	0.00	0.14
45.40	(4) DYWIDAG	Yes	0.40	1.20	2.50	0.08	0.10	23.178	0.230	0.000	4.08	0.00
50.00	(6) 1 5/8" Coax	Yes	4.60	1.20	1.98	0.76	0.91	23.537	0.229	0.000	37.73	27.16
50.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.76	0.00	0.000	0.000	0.000	0.00	368.74

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:28 AM

Customer: T-MOBILE

<b>Load Case: 1.2D + 1.6W</b>	<b>110 mph with No Ice</b>	<b>25 Iterations</b>
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.20		
Wind Load Factor : 1.60		

50.00	(1) 3/8" Coax	No	4.60	0.00	0.44	0.00	0.00	23.537	0.229	0.000	0.00	0.44
50.00	(1) 0.28" RG-6	No	4.60	0.00	0.00	0.00	0.00	23.537	0.229	0.000	0.00	0.16
50.00	(2) 0.65" 8 AWG 2C	No	4.60	0.00	0.00	0.00	0.00	23.537	0.229	0.000	0.00	3.42
50.00	(12) 1 1/4" Coax	No	4.60	0.00	0.00	0.00	0.00	23.537	0.229	0.000	0.00	41.73
50.00	(4) 1 1/4" Hybriflex	No	4.60	0.00	0.00	0.00	0.00	23.537	0.229	0.000	0.00	22.08
50.00	(2) 1/2" Coax	No	4.60	0.00	0.00	0.00	0.00	23.537	0.229	0.000	0.00	1.66
50.00	(1) 2" Conduit	No	4.60	0.00	0.00	0.00	0.00	23.537	0.229	0.000	0.00	20.15
50.00	(6) 5/16" Coax	No	4.60	0.00	0.00	0.00	0.00	23.537	0.229	0.000	0.00	1.49
50.00	(12) 1 5/8" Coax	No	4.60	0.00	0.00	0.00	0.00	23.537	0.229	0.000	0.00	54.31
50.00	(12) 1 5/8" Coax	No	4.60	0.00	0.00	0.00	0.00	23.537	0.229	0.000	0.00	54.31
50.00	(1) 1 5/8" Hybriflex	No	4.60	0.00	0.00	0.00	0.00	23.537	0.229	0.000	0.00	7.18
50.00	(1) 1/2" Coax	No	4.60	0.00	0.00	0.00	0.00	23.537	0.229	0.000	0.00	0.83
50.00	(1) 1 1/4" Fiber	No	4.60	0.00	0.00	0.00	0.00	23.537	0.229	0.000	0.00	5.80
50.00	(14) 1 5/8" Coax	Yes	4.60	1.18	3.96	1.52	1.80	23.537	0.229	0.000	74.38	63.36
50.00	(2) 1/2" Coax	No	4.60	0.00	0.00	0.00	0.00	23.537	0.229	0.000	0.00	1.66
50.00	(2) 1/2" Coax	No	4.60	0.00	0.00	0.00	0.00	23.537	0.229	0.000	0.00	1.66
50.00	(2) 1/2" Coax	No	4.60	0.00	0.00	0.00	0.00	23.537	0.229	0.000	0.00	1.66
50.00	(4) DYWIDAG	Yes	4.60	1.20	2.50	0.96	1.15	23.537	0.229	0.000	47.64	0.00
55.00	(6) 1 5/8" Coax	Yes	5.00	1.20	1.98	0.82	0.99	24.191	0.236	0.000	42.15	29.52
55.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.82	0.00	0.000	0.000	0.000	0.00	400.80
55.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	24.191	0.236	0.000	0.00	0.48
55.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	24.191	0.236	0.000	0.00	0.17
55.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	24.191	0.236	0.000	0.00	3.72
55.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	24.191	0.236	0.000	0.00	45.35
55.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	24.191	0.236	0.000	0.00	24.00
55.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	24.191	0.236	0.000	0.00	1.80
55.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	24.191	0.236	0.000	0.00	21.90
55.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	24.191	0.236	0.000	0.00	1.62
55.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	24.191	0.236	0.000	0.00	59.03
55.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	24.191	0.236	0.000	0.00	59.03
55.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	24.191	0.236	0.000	0.00	7.80
55.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	24.191	0.236	0.000	0.00	0.90
55.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	24.191	0.236	0.000	0.00	6.30
55.00	(14) 1 5/8" Coax	Yes	5.00	1.16	3.96	1.65	1.93	24.191	0.236	0.000	81.96	68.87
55.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	24.191	0.236	0.000	0.00	1.80
55.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	24.191	0.236	0.000	0.00	1.80
55.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	24.191	0.236	0.000	0.00	1.80
55.00	(4) DYWIDAG	Yes	5.00	1.20	2.50	1.04	1.25	24.191	0.236	0.000	53.22	0.00
55.68	(6) 1 5/8" Coax	Yes	0.68	1.20	1.98	0.11	0.13	24.558	0.240	0.000	5.79	4.00
55.68	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.11	0.00	0.000	0.000	0.000	0.00	54.27
55.68	(1) 3/8" Coax	No	0.68	0.00	0.44	0.00	0.00	24.558	0.240	0.000	0.00	0.06
55.68	(1) 0.28" RG-6	No	0.68	0.00	0.00	0.00	0.00	24.558	0.240	0.000	0.00	0.02
55.68	(2) 0.65" 8 AWG 2C	No	0.68	0.00	0.00	0.00	0.00	24.558	0.240	0.000	0.00	0.50
55.68	(12) 1 1/4" Coax	No	0.68	0.00	0.00	0.00	0.00	24.558	0.240	0.000	0.00	6.14
55.68	(4) 1 1/4" Hybriflex	No	0.68	0.00	0.00	0.00	0.00	24.558	0.240	0.000	0.00	3.25
55.68	(2) 1/2" Coax	No	0.68	0.00	0.00	0.00	0.00	24.558	0.240	0.000	0.00	0.24
55.68	(1) 2" Conduit	No	0.68	0.00	0.00	0.00	0.00	24.558	0.240	0.000	0.00	2.97
55.68	(6) 5/16" Coax	No	0.68	0.00	0.00	0.00	0.00	24.558	0.240	0.000	0.00	0.22
55.68	(12) 1 5/8" Coax	No	0.68	0.00	0.00	0.00	0.00	24.558	0.240	0.000	0.00	7.99
55.68	(12) 1 5/8" Coax	No	0.68	0.00	0.00	0.00	0.00	24.558	0.240	0.000	0.00	7.99
55.68	(1) 1 5/8" Hybriflex	No	0.68	0.00	0.00	0.00	0.00	24.558	0.240	0.000	0.00	1.06
55.68	(1) 1/2" Coax	No	0.68	0.00	0.00	0.00	0.00	24.558	0.240	0.000	0.00	0.12
55.68	(1) 1 1/4" Fiber	No	0.68	0.00	0.00	0.00	0.00	24.558	0.240	0.000	0.00	0.85
55.68	(14) 1 5/8" Coax	Yes	0.68	1.15	3.96	0.22	0.26	24.558	0.240	0.000	11.18	9.33
55.68	(2) 1/2" Coax	No	0.68	0.00	0.00	0.00	0.00	24.558	0.240	0.000	0.00	0.24
55.68	(2) 1/2" Coax	No	0.68	0.00	0.00	0.00	0.00	24.558	0.240	0.000	0.00	0.24
55.68	(2) 1/2" Coax	No	0.68	0.00	0.00	0.00	0.00	24.558	0.240	0.000	0.00	0.24

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:28 AM

Customer: T-MOBILE

<b>Load Case: 1.2D + 1.6W</b>	<b>110 mph with No Ice</b>	<b>25 Iterations</b>
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.20		
Wind Load Factor : 1.60		

55.68	(4) DYWIDAG	Yes	0.68	1.20	2.50	0.14	0.17	24.558	0.240	0.000	7.32	0.00
60.00	(6) 1 5/8" Coax	Yes	4.32	1.20	1.98	0.71	0.86	24.870	0.244	0.000	37.47	25.52
60.00	(1) 3/8" Coax	No	4.32	0.00	0.44	0.00	0.00	24.870	0.244	0.000	0.00	0.42
60.00	(1) 0.28" RG-6	No	4.32	0.00	0.00	0.00	0.00	24.870	0.244	0.000	0.00	0.15
60.00	(2) 0.65" 8 AWG 2C	No	4.32	0.00	0.00	0.00	0.00	24.870	0.244	0.000	0.00	3.22
60.00	(12) 1 1/4" Coax	No	4.32	0.00	0.00	0.00	0.00	24.870	0.244	0.000	0.00	39.21
60.00	(4) 1 1/4" Hybriflex	No	4.32	0.00	0.00	0.00	0.00	24.870	0.244	0.000	0.00	20.75
60.00	(2) 1/2" Coax	No	4.32	0.00	0.00	0.00	0.00	24.870	0.244	0.000	0.00	1.56
60.00	(1) 2" Conduit	No	4.32	0.00	0.00	0.00	0.00	24.870	0.244	0.000	0.00	18.93
60.00	(6) 5/16" Coax	No	4.32	0.00	0.00	0.00	0.00	24.870	0.244	0.000	0.00	1.40
60.00	(12) 1 5/8" Coax	No	4.32	0.00	0.00	0.00	0.00	24.870	0.244	0.000	0.00	51.04
60.00	(12) 1 5/8" Coax	No	4.32	0.00	0.00	0.00	0.00	24.870	0.244	0.000	0.00	51.04
60.00	(1) 1 5/8" Hybriflex	No	4.32	0.00	0.00	0.00	0.00	24.870	0.244	0.000	0.00	6.74
60.00	(1) 1/2" Coax	No	4.32	0.00	0.00	0.00	0.00	24.870	0.244	0.000	0.00	0.78
60.00	(1) 1 1/4" Fiber	No	4.32	0.00	0.00	0.00	0.00	24.870	0.244	0.000	0.00	5.45
60.00	(14) 1 5/8" Coax	Yes	4.32	1.15	3.96	1.43	1.64	24.870	0.244	0.000	71.85	59.55
60.00	(2) 1/2" Coax	No	4.32	0.00	0.00	0.00	0.00	24.870	0.244	0.000	0.00	1.56
60.00	(2) 1/2" Coax	No	4.32	0.00	0.00	0.00	0.00	24.870	0.244	0.000	0.00	1.56
60.00	(2) 1/2" Coax	No	4.32	0.00	0.00	0.00	0.00	24.870	0.244	0.000	0.00	1.56
60.00	(4) DYWIDAG	Yes	4.32	1.20	2.50	0.90	1.08	24.870	0.244	0.000	47.31	0.00
65.00	(6) 1 5/8" Coax	Yes	5.00	1.20	1.98	0.82	0.99	25.427	0.221	0.000	44.30	29.52
65.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	25.427	0.221	0.000	0.00	0.48
65.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	25.427	0.221	0.000	0.00	0.17
65.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	25.427	0.221	0.000	0.00	3.72
65.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	25.427	0.221	0.000	0.00	45.35
65.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	25.427	0.221	0.000	0.00	24.00
65.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	25.427	0.221	0.000	0.00	1.80
65.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	25.427	0.221	0.000	0.00	21.90
65.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	25.427	0.221	0.000	0.00	1.62
65.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	25.427	0.221	0.000	0.00	59.03
65.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	25.427	0.221	0.000	0.00	59.03
65.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	25.427	0.221	0.000	0.00	7.80
65.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	25.427	0.221	0.000	0.00	0.90
65.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	25.427	0.221	0.000	0.00	6.30
65.00	(14) 1 5/8" Coax	Yes	5.00	1.13	3.96	1.65	1.88	25.427	0.221	0.000	84.03	68.87
65.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	25.427	0.221	0.000	0.00	1.80
65.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	25.427	0.221	0.000	0.00	1.80
65.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	25.427	0.221	0.000	0.00	1.80
65.00	(4) DYWIDAG	Yes	3.00	1.20	2.50	0.63	0.75	25.427	0.221	0.000	33.56	0.00
70.00	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	25.992	0.183	1.248	0.00	29.52
70.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	25.992	0.183	1.248	0.00	0.48
70.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	25.992	0.183	1.248	0.00	0.17
70.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	25.992	0.183	1.248	0.00	3.72
70.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	25.992	0.183	1.248	0.00	45.35
70.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	25.992	0.183	1.248	0.00	24.00
70.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	25.992	0.183	1.248	0.00	1.80
70.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	25.992	0.183	1.248	0.00	21.90
70.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	25.992	0.183	1.248	0.00	1.62
70.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	25.992	0.183	1.248	0.00	59.03
70.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	25.992	0.183	1.248	0.00	59.03
70.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	25.992	0.183	1.248	0.00	7.80
70.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	25.992	0.183	1.248	0.00	0.90
70.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	25.992	0.183	1.248	0.00	6.30
70.00	(14) 1 5/8" Coax	Yes	5.00	0.00	3.96	1.65	0.00	25.992	0.183	1.248	0.00	68.87
70.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	25.992	0.183	1.248	0.00	1.80
70.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	25.992	0.183	1.248	0.00	1.80
70.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	25.992	0.183	1.248	0.00	1.80



Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:28 AM

Customer: T-MOBILE

<b>Load Case: 1.2D + 1.6W</b>	<b>110 mph with No Ice</b>	<b>25 Iterations</b>
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.20		
Wind Load Factor : 1.60		

75.00	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	26.528	0.189	1.267	0.00	29.52
75.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	26.528	0.189	1.267	0.00	0.48
75.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	26.528	0.189	1.267	0.00	0.17
75.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	26.528	0.189	1.267	0.00	3.72
75.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	26.528	0.189	1.267	0.00	45.35
75.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	26.528	0.189	1.267	0.00	24.00
75.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	26.528	0.189	1.267	0.00	1.80
75.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	26.528	0.189	1.267	0.00	21.90
75.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	26.528	0.189	1.267	0.00	1.62
75.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	26.528	0.189	1.267	0.00	59.03
75.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	26.528	0.189	1.267	0.00	59.03
75.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	26.528	0.189	1.267	0.00	7.80
75.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	26.528	0.189	1.267	0.00	0.90
75.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	26.528	0.189	1.267	0.00	6.30
75.00	(14) 1 5/8" Coax	Yes	5.00	0.00	3.96	1.65	0.00	26.528	0.189	1.267	0.00	68.87
75.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	26.528	0.189	1.267	0.00	1.80
75.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	26.528	0.189	1.267	0.00	1.80
80.00	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	27.038	0.196	1.288	0.00	29.52
80.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	27.038	0.196	1.288	0.00	0.48
80.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	27.038	0.196	1.288	0.00	0.17
80.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	27.038	0.196	1.288	0.00	3.72
80.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	27.038	0.196	1.288	0.00	45.35
80.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	27.038	0.196	1.288	0.00	24.00
80.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	27.038	0.196	1.288	0.00	1.80
80.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	27.038	0.196	1.288	0.00	21.90
80.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	27.038	0.196	1.288	0.00	1.62
80.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	27.038	0.196	1.288	0.00	59.03
80.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	27.038	0.196	1.288	0.00	59.03
80.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	27.038	0.196	1.288	0.00	7.80
80.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	27.038	0.196	1.288	0.00	0.90
80.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	27.038	0.196	1.288	0.00	6.30
80.00	(14) 1 5/8" Coax	Yes	5.00	0.00	3.96	1.65	0.00	27.038	0.196	1.288	0.00	68.87
80.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	27.038	0.196	1.288	0.00	1.80
80.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	27.038	0.196	1.288	0.00	1.80
80.75	(6) 1 5/8" Coax	Yes	0.75	1.20	1.98	0.12	0.15	27.321	0.200	0.000	7.13	4.42
80.75	(1) 3/8" Coax	No	0.75	0.00	0.44	0.00	0.00	27.321	0.200	0.000	0.00	0.07
80.75	(1) 0.28" RG-6	No	0.75	0.00	0.00	0.00	0.00	27.321	0.200	0.000	0.00	0.03
80.75	(2) 0.65" 8 AWG 2C	No	0.75	0.00	0.00	0.00	0.00	27.321	0.200	0.000	0.00	0.56
80.75	(12) 1 1/4" Coax	No	0.75	0.00	0.00	0.00	0.00	27.321	0.200	0.000	0.00	6.79
80.75	(4) 1 1/4" Hybriflex	No	0.75	0.00	0.00	0.00	0.00	27.321	0.200	0.000	0.00	3.59
80.75	(2) 1/2" Coax	No	0.75	0.00	0.00	0.00	0.00	27.321	0.200	0.000	0.00	0.27
80.75	(1) 2" Conduit	No	0.75	0.00	0.00	0.00	0.00	27.321	0.200	0.000	0.00	3.28
80.75	(6) 5/16" Coax	No	0.75	0.00	0.00	0.00	0.00	27.321	0.200	0.000	0.00	0.24
80.75	(12) 1 5/8" Coax	No	0.75	0.00	0.00	0.00	0.00	27.321	0.200	0.000	0.00	8.84
80.75	(12) 1 5/8" Coax	No	0.75	0.00	0.00	0.00	0.00	27.321	0.200	0.000	0.00	8.84
80.75	(1) 1 5/8" Hybriflex	No	0.75	0.00	0.00	0.00	0.00	27.321	0.200	0.000	0.00	1.17
80.75	(1) 1/2" Coax	No	0.75	0.00	0.00	0.00	0.00	27.321	0.200	0.000	0.00	0.13
80.75	(1) 1 1/4" Fiber	No	0.75	0.00	0.00	0.00	0.00	27.321	0.200	0.000	0.00	0.94
80.75	(14) 1 5/8" Coax	Yes	0.75	1.09	3.96	0.25	0.27	27.321	0.200	0.000	13.04	10.31
84.90	(6) 1 5/8" Coax	Yes	4.15	1.20	1.98	0.68	0.82	27.556	0.204	0.000	39.86	24.50
84.90	(1) 3/8" Coax	No	4.15	0.00	0.44	0.00	0.00	27.556	0.204	0.000	0.00	0.40
84.90	(1) 0.28" RG-6	No	4.15	0.00	0.00	0.00	0.00	27.556	0.204	0.000	0.00	0.14
84.90	(2) 0.65" 8 AWG 2C	No	4.15	0.00	0.00	0.00	0.00	27.556	0.204	0.000	0.00	3.09
84.90	(12) 1 1/4" Coax	No	4.15	0.00	0.00	0.00	0.00	27.556	0.204	0.000	0.00	37.65
84.90	(4) 1 1/4" Hybriflex	No	4.15	0.00	0.00	0.00	0.00	27.556	0.204	0.000	0.00	19.93
84.90	(2) 1/2" Coax	No	4.15	0.00	0.00	0.00	0.00	27.556	0.204	0.000	0.00	1.49
84.90	(1) 2" Conduit	No	4.15	0.00	0.00	0.00	0.00	27.556	0.204	0.000	0.00	18.18

<b>Load Case: 1.2D + 1.6W</b>	<b>110 mph with No Ice</b>										<b>25 Iterations</b>
Gust Response Factor : 1.10											Wind Importance Factor : 1.00
Dead Load Factor : 1.20											
Wind Load Factor : 1.60											

84.90	(6) 5/16" Coax	No	4.15	0.00	0.00	0.00	0.00	27.556	0.204	0.000	0.00	1.34
84.90	(12) 1 5/8" Coax	No	4.15	0.00	0.00	0.00	0.00	27.556	0.204	0.000	0.00	49.01
84.90	(12) 1 5/8" Coax	No	4.15	0.00	0.00	0.00	0.00	27.556	0.204	0.000	0.00	49.01
84.90	(1) 1 5/8" Hybriflex	No	4.15	0.00	0.00	0.00	0.00	27.556	0.204	0.000	0.00	6.48
84.90	(1) 1/2" Coax	No	4.15	0.00	0.00	0.00	0.00	27.556	0.204	0.000	0.00	0.75
84.90	(1) 1 1/4" Fiber	No	4.15	0.00	0.00	0.00	0.00	27.556	0.204	0.000	0.00	5.23
84.90	(14) 1 5/8" Coax	Yes	4.15	1.09	3.96	1.37	1.50	27.556	0.204	0.000	72.63	57.18
85.00	(6) 1 5/8" Coax	Yes	0.10	1.20	1.98	0.02	0.02	27.757	0.204	0.000	0.97	0.59
85.00	(1) 3/8" Coax	No	0.10	0.00	0.44	0.00	0.00	27.757	0.204	0.000	0.00	0.01
85.00	(1) 0.28" RG-6	No	0.10	0.00	0.00	0.00	0.00	27.757	0.204	0.000	0.00	0.00
85.00	(2) 0.65" 8 AWG 2C	No	0.10	0.00	0.00	0.00	0.00	27.757	0.204	0.000	0.00	0.07
85.00	(12) 1 1/4" Coax	No	0.10	0.00	0.00	0.00	0.00	27.757	0.204	0.000	0.00	0.91
85.00	(4) 1 1/4" Hybriflex	No	0.10	0.00	0.00	0.00	0.00	27.757	0.204	0.000	0.00	0.48
85.00	(2) 1/2" Coax	No	0.10	0.00	0.00	0.00	0.00	27.757	0.204	0.000	0.00	0.04
85.00	(1) 2" Conduit	No	0.10	0.00	0.00	0.00	0.00	27.757	0.204	0.000	0.00	0.44
85.00	(6) 5/16" Coax	No	0.10	0.00	0.00	0.00	0.00	27.757	0.204	0.000	0.00	0.03
85.00	(12) 1 5/8" Coax	No	0.10	0.00	0.00	0.00	0.00	27.757	0.204	0.000	0.00	1.19
85.00	(12) 1 5/8" Coax	No	0.10	0.00	0.00	0.00	0.00	27.757	0.204	0.000	0.00	1.19
85.00	(1) 1 5/8" Hybriflex	No	0.10	0.00	0.00	0.00	0.00	27.757	0.204	0.000	0.00	0.16
85.00	(1) 1/2" Coax	No	0.10	0.00	0.00	0.00	0.00	27.757	0.204	0.000	0.00	0.02
85.00	(1) 1 1/4" Fiber	No	0.10	0.00	0.00	0.00	0.00	27.757	0.204	0.000	0.00	0.13
85.00	(14) 1 5/8" Coax	Yes	0.10	1.08	3.96	0.03	0.04	27.757	0.204	0.000	1.76	1.38
90.00	(6) 1 5/8" Coax	Yes	5.00	1.20	1.98	0.82	0.99	27.992	0.208	0.000	48.77	29.52
90.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	27.992	0.208	0.000	0.00	0.48
90.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	27.992	0.208	0.000	0.00	0.17
90.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	27.992	0.208	0.000	0.00	3.72
90.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	27.992	0.208	0.000	0.00	45.35
90.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	27.992	0.208	0.000	0.00	24.00
90.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	27.992	0.208	0.000	0.00	1.80
90.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	27.992	0.208	0.000	0.00	21.90
90.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	27.992	0.208	0.000	0.00	1.62
90.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	27.992	0.208	0.000	0.00	59.03
90.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	27.992	0.208	0.000	0.00	59.03
90.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	27.992	0.208	0.000	0.00	7.80
90.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	27.992	0.208	0.000	0.00	0.90
90.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	27.992	0.208	0.000	0.00	6.30
90.00	(14) 1 5/8" Coax	Yes	5.00	1.08	3.96	1.65	1.79	27.992	0.208	0.000	88.17	68.87
95.00	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	28.440	0.072	0.000	0.00	29.52
95.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	28.440	0.072	0.000	0.00	0.48
95.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	28.440	0.072	0.000	0.00	0.17
95.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	28.440	0.072	0.000	0.00	3.72
95.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	28.440	0.072	0.000	0.00	45.35
95.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	28.440	0.072	0.000	0.00	24.00
95.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	28.440	0.072	0.000	0.00	1.80
95.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	28.440	0.072	0.000	0.00	21.90
95.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	28.440	0.072	0.000	0.00	1.62
95.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	28.440	0.072	0.000	0.00	59.03
95.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	28.440	0.072	0.000	0.00	59.03
95.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	28.440	0.072	0.000	0.00	7.80
95.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	28.440	0.072	0.000	0.00	0.90
100.0	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	28.871	0.075	0.000	0.00	29.52
100.0	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	28.871	0.075	0.000	0.00	0.48
100.0	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	28.871	0.075	0.000	0.00	0.17
100.0	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	28.871	0.075	0.000	0.00	3.72
100.0	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	28.871	0.075	0.000	0.00	45.35
100.0	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	28.871	0.075	0.000	0.00	24.00
100.0	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	28.871	0.075	0.000	0.00	1.80

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:29 AM

Customer: T-MOBILE

<b>Load Case: 1.2D + 1.6W</b>	<b>110 mph with No Ice</b>	<b>25 Iterations</b>
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.20		
Wind Load Factor : 1.60		

100.0	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	28.871	0.075	0.000	0.00	21.90
100.0	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	28.871	0.075	0.000	0.00	1.62
100.0	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	28.871	0.075	0.000	0.00	59.03
100.0	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	28.871	0.075	0.000	0.00	59.03
100.0	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	28.871	0.075	0.000	0.00	7.80
100.0	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	28.871	0.075	0.000	0.00	0.90
105.0	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	29.287	0.078	0.000	0.00	29.52
105.0	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	29.287	0.078	0.000	0.00	0.48
105.0	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	29.287	0.078	0.000	0.00	0.17
105.0	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	29.287	0.078	0.000	0.00	3.72
105.0	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	29.287	0.078	0.000	0.00	45.35
105.0	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	29.287	0.078	0.000	0.00	24.00
105.0	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	29.287	0.078	0.000	0.00	1.80
105.0	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	29.287	0.078	0.000	0.00	21.90
105.0	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	29.287	0.078	0.000	0.00	1.62
105.0	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	29.287	0.078	0.000	0.00	59.03
110.0	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	29.688	0.082	0.000	0.00	29.52
110.0	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	29.688	0.082	0.000	0.00	0.48
110.0	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	29.688	0.082	0.000	0.00	0.17
110.0	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	29.688	0.082	0.000	0.00	3.72
110.0	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	29.688	0.082	0.000	0.00	45.35
110.0	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	29.688	0.082	0.000	0.00	24.00
110.0	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	29.688	0.082	0.000	0.00	1.80
110.0	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	29.688	0.082	0.000	0.00	21.90
110.0	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	29.688	0.082	0.000	0.00	1.62
110.0	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	29.688	0.082	0.000	0.00	59.03
115.0	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	30.076	0.086	0.000	0.00	29.52
115.0	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	30.076	0.086	0.000	0.00	0.48
115.0	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	30.076	0.086	0.000	0.00	0.17
115.0	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	30.076	0.086	0.000	0.00	3.72
115.0	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	30.076	0.086	0.000	0.00	45.35
115.0	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	30.076	0.086	0.000	0.00	24.00
115.0	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	30.076	0.086	0.000	0.00	1.80
115.0	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	30.076	0.086	0.000	0.00	21.90
115.0	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	30.076	0.086	0.000	0.00	1.62
120.0	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	30.452	0.090	0.000	0.00	29.52
120.0	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	30.452	0.090	0.000	0.00	0.48
120.0	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	30.452	0.090	0.000	0.00	0.17
120.0	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	30.452	0.090	0.000	0.00	3.72
120.0	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	30.452	0.090	0.000	0.00	45.35
120.0	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	30.452	0.090	0.000	0.00	24.00
120.0	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	30.452	0.090	0.000	0.00	1.80
120.0	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	30.452	0.090	0.000	0.00	21.90
120.0	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	30.452	0.090	0.000	0.00	1.62
125.0	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	30.817	0.095	0.000	0.00	29.52
125.0	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	30.817	0.095	0.000	0.00	0.48
125.0	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	30.817	0.095	0.000	0.00	0.17
125.0	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	30.817	0.095	0.000	0.00	3.72
125.0	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	30.817	0.095	0.000	0.00	45.35
125.8	(6) 1 5/8" Coax	Yes	0.80	0.00	1.98	0.13	0.00	31.024	0.098	0.000	0.00	4.73
125.8	(1) 3/8" Coax	No	0.80	0.00	0.44	0.00	0.00	31.024	0.098	0.000	0.00	0.08
125.8	(1) 0.28" RG-6	No	0.80	0.00	0.00	0.00	0.00	31.024	0.098	0.000	0.00	0.03
125.8	(2) 0.65" 8 AWG 2C	No	0.80	0.00	0.00	0.00	0.00	31.024	0.098	0.000	0.00	0.60
125.8	(12) 1 1/4" Coax	No	0.80	0.00	0.00	0.00	0.00	31.024	0.098	0.000	0.00	7.26
130.0	(6) 1 5/8" Coax	Yes	4.20	0.00	1.98	0.69	0.00	31.199	0.184	1.253	0.00	24.79
130.0	(1) 3/8" Coax	No	4.20	0.00	0.44	0.00	0.00	31.199	0.184	1.253	0.00	0.40
130.0	(1) 0.28" RG-6	No	4.20	0.00	0.00	0.00	0.00	31.199	0.184	1.253	0.00	0.15

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:29 AM

Customer: T-MOBILE

**Load Case: 1.2D + 1.6W**

110 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

130.0	(2) 0.65" 8 AWG 2C	No	4.20	0.00	0.00	0.00	0.00	31.199	0.184	1.253	0.00	3.12
130.0	(12) 1 1/4" Coax	No	4.20	0.00	0.00	0.00	0.00	31.199	0.184	1.253	0.00	38.09
131.0	(6) 1 5/8" Coax	Yes	1.00	0.00	1.98	0.17	0.00	31.379	0.184	1.253	0.00	5.90
131.0	(1) 3/8" Coax	No	1.00	0.00	0.44	0.00	0.00	31.379	0.184	1.253	0.00	0.10
131.0	(1) 0.28" RG-6	No	1.00	0.00	0.00	0.00	0.00	31.379	0.184	1.253	0.00	0.03
131.0	(2) 0.65" 8 AWG 2C	No	1.00	0.00	0.00	0.00	0.00	31.379	0.184	1.253	0.00	0.74
131.0	(12) 1 1/4" Coax	No	1.00	0.00	0.00	0.00	0.00	31.379	0.184	1.253	0.00	9.07
135.0	(6) 1 5/8" Coax	Yes	4.00	0.00	1.98	0.66	0.00	31.550	0.184	1.253	0.00	23.61
135.0	(1) 3/8" Coax	No	4.00	0.00	0.44	0.00	0.00	31.550	0.184	1.253	0.00	0.38
136.0	(6) 1 5/8" Coax	Yes	1.00	0.00	1.98	0.17	0.00	31.718	0.184	1.253	0.00	5.90
136.0	(1) 3/8" Coax	No	1.00	0.00	0.44	0.00	0.00	31.718	0.184	1.253	0.00	0.10
<b>Totals:</b>											<b>1,760.95</b>	<b>11,842.14</b>

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:29 AM

Customer: T-MOBILE

**Load Case:** 1.2D + 1.6W

110 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		434.6	0.0					0.0	0.0	434.6	0.0	0.0	0.0
5.00		863.5	1,266.4					0.0	736.7	863.5	2,003.1	0.0	0.0
10.00		851.8	1,235.8					0.0	736.7	851.8	1,972.5	0.0	0.0
15.00		840.2	1,205.3					0.0	736.7	840.2	1,942.0	0.0	0.0
20.00		794.5	1,174.7					0.0	736.7	794.5	1,911.4	0.0	0.0
25.00		744.7	1,144.1					153.0	736.7	897.7	1,880.8	0.0	0.0
30.00		733.4	1,113.5					153.0	736.7	886.4	1,850.2	0.0	0.0
35.00		736.6	1,082.9					156.7	736.7	893.3	1,819.6	0.0	0.0
40.00		388.7	1,052.4					163.2	736.7	551.9	1,789.1	0.0	0.0
40.24	Bot - Section 2	380.5	50.5					8.1	35.9	388.6	86.4	0.0	0.0
45.00		392.9	1,822.9					161.0	700.8	553.9	2,523.7	0.0	0.0
45.40	Top - Section 1	381.8	150.9					13.7	58.9	395.5	209.8	0.0	0.0
50.00		732.4	799.1					159.8	677.8	892.1	1,476.9	0.0	0.0
55.00		432.6	843.4					177.3	736.7	609.9	1,580.1	0.0	0.0
55.68	Reinf. Top	379.1	112.2					24.3	99.7	403.4	211.9	0.0	0.0
60.00		703.6	705.0					156.6	290.4	860.2	995.4	0.0	0.0
65.00		762.6	791.0					161.9	335.9	924.5	1,126.9	0.0	0.0
70.00	Appertunance(s)	773.8	764.8	35.1	0.0	0.0	36.7	0.0	335.9	809.0	1,137.4	0.0	0.0
75.00		774.1	738.6					0.0	334.1	774.1	1,072.7	0.0	0.0
80.00	Appertunance(s)	440.4	712.4	470.8	0.0	326.1	185.5	0.0	334.1	911.1	1,232.0	0.0	0.0
80.75	Bot - Section 3	351.8	104.4					20.2	49.5	372.0	153.9	0.0	0.0
84.90	Top - Section 2	305.6	955.6					112.5	274.4	418.1	1,230.0	0.0	0.0
85.00		359.7	9.2					2.7	6.6	362.4	15.9	0.0	0.0
90.00	Appertunance(s)	639.5	450.2	4,321.3	0.0	0.0	3,521.4	136.9	330.5	5,097.7	4,302.1	0.0	0.0
95.00		566.6	432.8					0.0	255.3	566.6	688.1	0.0	0.0
100.00	Appertunance(s)	551.5	415.3	4,138.3	0.0	77.6	2,938.6	0.0	255.3	4,689.9	3,609.2	0.0	0.0
105.00		535.5	397.8					0.0	187.6	535.5	585.4	0.0	0.0
110.00	Appertunance(s)	518.5	380.3	3,340.4	0.0	0.0	2,544.0	0.0	187.6	3,859.0	3,111.9	0.0	0.0
115.00		500.7	362.9					0.0	128.6	500.7	491.4	0.0	0.0
120.00	Appertunance(s)	482.1	345.4	4,611.3	0.0	0.0	3,821.4	0.0	128.6	5,093.5	4,295.4	0.0	0.0
125.00		273.2	327.9					0.0	79.2	273.2	407.2	0.0	0.0
125.80	Top - Section 3	114.6	50.9					0.0	12.7	114.6	63.6	0.0	0.0
130.00		96.2	209.6					0.0	66.6	96.2	276.2	0.0	0.0
131.00	Appertunance(s)	93.4	49.9	4,298.3	0.0	3,569.1	3,338.9	0.0	15.8	4,391.7	3,404.6	0.0	0.0
135.00		93.6	199.6					0.0	24.0	93.6	223.6	0.0	0.0
136.00	Appertunance(s)	79.1	49.9	393.5	0.0	1,180.6	88.2	0.0	6.0	472.7	144.1	0.0	0.0
140.00		90.7	199.6					0.0	0.0	90.7	199.6	0.0	0.0
142.00		30.3	99.8					0.0	0.0	30.3	99.8	0.0	0.0
<b>Totals:</b>										41,594.6	50,123.8	0.00	0.00

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:29 AM

Customer: T-MOBILE

**Load Case: 1.2D + 1.6W**

110 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 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	-50.04	-41.26	0.00	-3,705.43	0.00	3,705.43	4,350.13	2,175.06	7,987.32	3,944.64	0.00	0.00	0.673
5.00	-47.88	-40.59	0.00	-3,499.12	0.00	3,499.12	4,285.51	2,142.75	7,679.11	3,792.42	0.12	-0.23	0.655
10.00	-45.75	-39.91	0.00	-3,296.20	0.00	3,296.20	4,218.97	2,109.49	7,373.27	3,641.38	0.48	-0.46	0.636
15.00	-43.66	-39.22	0.00	-3,096.67	0.00	3,096.67	4,150.52	2,075.26	7,070.06	3,491.64	1.09	-0.69	0.617
20.00	-41.61	-38.57	0.00	-2,900.57	0.00	2,900.57	4,080.16	2,040.08	6,769.73	3,343.32	1.93	-0.92	0.597
25.00	-39.59	-37.79	0.00	-2,707.74	0.00	2,707.74	4,007.88	2,003.94	6,472.54	3,196.54	3.01	-1.15	0.576
30.00	-37.61	-37.02	0.00	-2,518.78	0.00	2,518.78	3,933.69	1,966.85	6,178.73	3,051.44	4.33	-1.37	0.555
35.00	-35.67	-36.22	0.00	-2,333.69	0.00	2,333.69	3,854.52	1,927.26	5,883.88	2,905.83	5.90	-1.60	0.533
40.00	-33.83	-35.68	0.00	-2,152.59	0.00	2,152.59	3,744.12	1,872.06	5,549.75	2,740.81	7.70	-1.83	0.514
40.24	-33.68	-35.36	0.00	-2,143.90	0.00	2,143.90	3,738.74	1,869.37	5,533.72	2,732.90	7.79	-1.84	0.513
45.00	-31.11	-34.78	0.00	-1,975.72	0.00	1,975.72	3,633.72	1,816.86	5,225.39	2,580.62	9.74	-2.06	0.487
45.40	-30.85	-34.44	0.00	-1,961.81	0.00	1,961.81	3,063.79	1,531.89	4,506.32	2,225.50	9.91	-2.07	0.543
50.00	-29.28	-33.60	0.00	-1,803.38	0.00	1,803.38	3,008.67	1,504.34	4,302.82	2,125.00	12.01	-2.28	0.515
55.00	-27.65	-32.99	0.00	-1,635.37	0.00	1,635.37	2,946.93	1,473.46	4,084.17	2,017.02	14.52	-2.50	0.484
55.68	-27.40	-32.63	0.00	-1,613.04	0.00	1,613.04	2,938.42	1,469.21	4,054.78	2,002.51	14.87	-2.53	0.479
55.68	-27.40	-32.63	0.00	-1,613.04	0.00	1,613.04	2,938.42	1,469.21	4,054.78	2,002.51	14.87	-2.53	0.815
60.00	-26.28	-31.86	0.00	-1,471.98	0.00	1,471.98	2,883.27	1,441.64	3,868.42	1,910.47	17.26	-2.73	0.780
65.00	-25.01	-31.04	0.00	-1,312.70	0.00	1,312.70	2,808.41	1,404.21	3,643.77	1,799.52	20.31	-3.10	0.739
70.00	-23.73	-30.31	0.00	-1,157.53	0.00	1,157.53	2,713.79	1,356.89	3,400.96	1,679.60	23.75	-3.46	0.698
75.00	-22.53	-29.61	0.00	-1,005.97	0.00	1,005.97	2,619.16	1,309.58	3,166.52	1,563.83	27.56	-3.81	0.652
80.00	-21.27	-28.68	0.00	-857.61	0.00	857.61	2,524.53	1,262.26	2,940.46	1,452.18	31.73	-4.15	0.600
80.75	-21.06	-28.36	0.00	-836.15	0.00	836.15	2,510.36	1,255.18	2,907.34	1,435.82	32.39	-4.20	0.591
84.90	-19.80	-27.90	0.00	-718.42	0.00	718.42	1,500.18	750.09	1,728.96	853.87	36.16	-4.47	0.856
85.00	-19.71	-27.61	0.00	-715.62	0.00	715.62	1,499.54	749.77	1,726.89	852.85	36.25	-4.47	0.854
90.00	-15.69	-22.28	0.00	-577.58	0.00	577.58	1,466.64	733.32	1,624.12	802.09	41.15	-4.88	0.732
95.00	-14.92	-21.75	0.00	-466.16	0.00	466.16	1,431.82	715.91	1,522.23	751.77	46.47	-5.26	0.631
100.00	-11.68	-16.80	0.00	-357.33	0.00	357.33	1,395.09	697.54	1,421.47	702.01	52.15	-5.59	0.518
105.00	-11.08	-16.26	0.00	-273.31	0.00	273.31	1,356.44	678.22	1,322.10	652.93	58.15	-5.88	0.427
110.00	-8.34	-12.13	0.00	-191.99	0.00	191.99	1,315.88	657.94	1,224.36	604.67	64.43	-6.12	0.324
115.00	-7.87	-11.60	0.00	-131.33	0.00	131.33	1,273.40	636.70	1,128.51	557.33	70.93	-6.31	0.242
120.00	-4.16	-6.07	0.00	-73.30	0.00	73.30	1,215.41	607.71	1,023.36	505.40	77.61	-6.45	0.149
125.00	-3.78	-5.76	0.00	-42.94	0.00	42.94	1,152.33	576.16	919.28	454.00	84.41	-6.55	0.098
125.80	-3.73	-5.64	0.00	-38.33	0.00	38.33	1,142.23	571.11	903.13	446.02	85.51	-6.56	0.089
125.80	-3.73	-5.64	0.00	-38.33	0.00	38.33	385.02	192.51	160.54	106.00	85.51	-6.56	0.372
130.00	-3.46	-5.51	0.00	-14.65	0.00	14.65	385.02	192.51	160.54	106.00	91.29	-6.60	0.148
131.00	-0.58	-0.76	0.00	-5.56	0.00	5.56	385.02	192.51	160.54	106.00	92.67	-6.62	0.054
135.00	-0.37	-0.64	0.00	-2.52	0.00	2.52	385.02	192.51	160.54	106.00	98.22	-6.65	0.025
136.00	-0.28	-0.15	0.00	-0.70	0.00	0.70	385.02	192.51	160.54	106.00	99.61	-6.66	0.007
140.00	-0.10	-0.04	0.00	-0.08	0.00	0.08	385.02	192.51	160.54	106.00	105.18	-6.66	0.001
142.00	0.00	-0.03	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	107.96	-6.66	0.000

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:29 AM

Customer: T-MOBILE

**Load Case:** 0.9D + 1.6W

110 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

**Shaft Segment Forces (Factored)**

Seg Top Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Ap (sf)	EPAs (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	20.599	22.65	357.29	1.000	0.000	0.00	0.000	0.00	347.7	0.0	0.0
5.00		1.00	0.70	20.599	22.65	353.07	1.000	* 0.000	5.00	19.182	19.18	687.1	0.0	949.8
10.00		1.00	0.70	20.599	22.65	344.63	1.000	* 0.000	5.00	18.723	18.72	670.5	0.0	926.9
15.00		1.00	0.70	20.599	22.65	336.19	1.000	* 0.000	5.00	18.265	18.26	653.9	0.0	903.9
20.00		1.00	0.70	20.599	22.65	327.75	1.000	* 0.000	5.00	17.806	17.81	700.1	0.0	881.0
25.00		1.00	0.70	20.599	22.65	319.30	1.200	* 0.000	5.00	17.348	20.82	744.7	0.0	858.1
30.00		1.00	0.70	20.599	22.65	310.86	1.200	* 0.000	5.00	16.889	20.27	733.4	0.0	835.1
35.00		1.00	0.71	21.093	23.20	306.03	1.200	* 0.000	5.00	16.430	19.72	736.6	0.0	812.2
40.00		1.00	0.74	21.974	24.17	303.63	1.200	* 0.000	5.00	15.972	19.17	388.7	0.0	789.3
40.24	Bot - Section 2	1.00	0.76	22.402	24.64	301.96	1.200	* 0.000	0.24	0.767	0.92	380.5	0.0	37.9
45.00		1.00	0.77	22.792	25.07	300.14	1.200	* 0.000	4.76	15.054	18.07	392.9	0.0	1,367.1
45.40	Top - Section 1	1.00	0.78	23.178	25.49	298.05	1.200	* 0.000	0.40	1.247	1.50	381.8	0.0	113.2
50.00		1.00	0.80	23.537	25.89	302.21	1.200	* 0.000	4.60	14.131	16.96	732.4	0.0	599.3
55.00		1.00	0.82	24.191	26.61	297.59	1.200	* 0.000	5.00	14.919	17.90	432.6	0.0	632.6
55.68	Reinf. Top	1.00	0.83	24.558	27.01	294.61	1.200	* 0.000	0.68	1.985	2.38	379.1	0.0	84.1
60.00		1.00	0.84	24.870	27.35	291.83	1.200	* 0.000	4.32	12.476	14.97	703.6	0.0	528.8
65.00		1.00	0.86	25.427	27.96	286.34	1.200	* 0.000	5.00	14.002	16.80	685.7	0.0	593.2
70.00	Appertunance(s)	1.00	0.88	25.992	28.59	280.02	1.000	* 0.000	5.00	13.544	13.54	615.2	0.0	573.6
75.00		1.00	0.90	26.528	29.18	273.32	1.000	* 0.000	5.00	13.085	13.08	605.9	0.0	553.9
80.00	Appertunance(s)	1.00	0.91	27.038	29.74	266.26	1.000	* 0.000	5.00	12.626	12.63	353.8	0.0	534.3
80.75	Bot - Section 3	1.00	0.92	27.321	30.05	262.06	1.200	* 0.000	0.75	1.851	2.22	351.8	0.0	78.3
84.90	Top - Section 2	1.00	0.93	27.556	30.31	258.40	1.200	* 0.000	4.15	10.256	12.31	305.6	0.0	716.7
85.00		1.00	0.94	27.757	30.53	259.78	1.200	* 0.000	0.10	0.244	0.29	359.7	0.0	6.9
90.00	Appertunance(s)	1.00	0.95	27.992	30.79	255.86	1.200	* 0.000	5.00	11.925	14.31	639.5	0.0	337.7
95.00		1.00	0.96	28.440	31.28	247.98	1.000	0.000	5.00	11.466	11.47	566.6	0.0	324.6
100.0	Appertunance(s)	1.00	0.98	28.871	31.75	239.86	1.000	0.000	5.00	11.007	11.01	551.5	0.0	311.5
105.0		1.00	0.99	29.287	32.21	231.52	1.000	0.000	5.00	10.549	10.55	535.5	0.0	298.4
110.0	Appertunance(s)	1.00	1.00	29.688	32.65	222.96	1.000	0.000	5.00	10.090	10.09	518.5	0.0	285.3
115.0		1.00	1.02	30.076	33.08	214.21	1.000	0.000	5.00	9.632	9.63	500.7	0.0	272.1
120.0	Appertunance(s)	1.00	1.03	30.452	33.49	205.29	1.000	0.000	5.00	9.173	9.17	482.1	0.0	259.0
125.0		1.00	1.04	30.817	33.89	196.19	1.000	0.000	5.00	8.714	8.71	273.2	0.0	245.9
125.8	Top - Section 3	1.00	1.05	31.024	34.12	190.83	1.000	0.000	0.80	1.353	1.35	98.9	0.0	38.2
130.0		1.00	1.06	31.199	34.31	101.46	0.600	* 0.000	4.20	3.762	2.26	76.8	0.0	157.2
131.0	Appertunance(s)	1.00	1.06	31.379	34.51	101.75	0.600	* 0.000	1.00	0.896	0.54	74.5	0.0	37.4
135.0		1.00	1.07	31.550	34.70	102.03	0.600	* 0.000	4.00	3.583	2.15	74.7	0.0	149.7
136.0	Appertunance(s)	1.00	1.07	31.718	34.89	102.30	0.600	* 0.000	1.00	0.896	0.54	75.3	0.0	37.4
140.0		1.00	1.08	31.884	35.07	102.57	0.600	0.000	4.00	3.583	2.15	90.7	0.0	149.7
142.0		1.00	1.09	32.081	35.28	102.88	0.600	0.000	2.00	1.792	1.08	30.3	0.0	74.9
								<b>Totals:</b>	<b>142.00</b>			<b>16,932.4</b>	<b>0.0</b>	<b>16,355.3</b>

\* = Cf Adjusted By Linear Load Ra Effect

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:30 AM

Customer: T-MOBILE

**Load Case: 0.9D + 1.6W**

110 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

**Discrete Appurtenance Segment Forces (Factored)**

Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orientation Factor	Ka	Total EPAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
70.00	PCTEL GPS-TMG-HR-	1	26.263	28.890	1.00	1.00	0.09	0.000	0.000	4.16	0.00	0.00	0.54
70.00	Stand-Off	1	26.263	28.890	0.67	1.00	0.67	0.000	0.000	30.97	0.00	0.00	27.00
80.00	Diamond X50A	2	27.573	30.331	1.00	1.00	2.24	0.000	3.000	108.70	0.00	326.11	4.14
80.00	6' Omni	2	27.285	30.013	1.00	1.00	3.52	0.000	0.000	169.03	0.00	0.00	45.00
80.00	Stand-Offs	2	27.285	30.013	0.67	1.00	4.02	0.000	0.000	193.04	0.00	0.00	90.00
90.00	RFS ATMAA1412D-	4	28.219	31.040	0.33	0.75	0.99	0.000	0.000	49.17	0.00	0.00	46.80
90.00	Ericsson RRUS 11 B12	3	28.219	31.040	0.50	0.75	3.14	0.000	0.000	155.88	0.00	0.00	136.89
90.00	Ericsson AIR 21, 1,3	4	28.219	31.040	0.71	0.75	12.89	0.000	0.000	640.00	0.00	0.00	298.80
90.00	Ericsson AIR 21, 1,3	3	28.219	31.040	0.70	0.75	9.59	0.000	0.000	476.37	0.00	0.00	220.05
90.00	Andrew LNX-6515DS-	3	28.219	31.040	0.70	0.75	18.00	0.000	0.000	894.07	0.00	0.00	138.51
90.00	Flat Platform w/ Han	1	28.219	31.040	1.00	1.00	42.40	0.000	0.000	2,105.77	0.00	0.00	1,800.00
100.0	RFS FD9R6004/1C-3L	6	29.081	31.989	0.33	0.75	0.55	0.000	0.000	28.12	0.00	0.00	16.74
100.0	GPS	1	29.409	32.349	0.50	0.75	0.38	0.000	4.000	19.41	0.00	77.64	9.00
100.0	Alcatel-Lucent RRH2x	3	29.081	31.989	0.50	0.75	2.43	0.000	0.000	124.37	0.00	0.00	118.80
100.0	Rymssa MGD3-800TX	3	29.081	31.989	0.69	0.75	5.19	0.000	0.000	265.40	0.00	0.00	41.58
100.0	Antel BXA-171063/12C	3	29.081	31.989	0.72	0.75	7.76	0.000	0.000	397.16	0.00	0.00	40.50
100.0	RFS DB-T1-6Z-8AB-0Z	1	29.081	31.989	1.00	0.75	3.60	0.000	0.000	184.26	0.00	0.00	39.60
100.0	Antel BXA-70080/6CF_	3	29.081	31.989	0.72	0.75	9.46	0.000	0.000	484.23	0.00	0.00	48.60
100.0	Powerwave Allgon	3	29.081	31.989	0.65	0.75	11.89	0.000	0.000	608.56	0.00	0.00	89.10
100.0	Flat Platform w/ Han	1	29.081	31.989	1.00	1.00	39.60	0.000	0.000	2,026.82	0.00	0.00	1,800.00
110.0	Swedcom ALP 9011-	12	29.884	32.872	0.74	0.75	21.11	0.000	0.000	1,110.40	0.00	0.00	108.00
110.0	Flat Platform w/ Han	1	29.884	32.872	1.00	1.00	42.40	0.000	0.000	2,230.03	0.00	0.00	1,800.00
120.0	DragonWave Horizon	2	30.636	33.699	0.33	0.75	0.21	0.000	0.000	11.48	0.00	0.00	19.08
120.0	NextNet BTS-2500	3	30.636	33.699	0.50	0.75	2.05	0.000	0.000	110.40	0.00	0.00	94.50
120.0	Alcatel-Lucent 800 M	3	30.636	33.699	0.50	0.75	2.32	0.000	0.000	124.96	0.00	0.00	172.80
120.0	Alcatel-Lucent 1900	3	30.636	33.699	0.50	0.75	2.61	0.000	0.000	140.73	0.00	0.00	162.00
120.0	Alcatel-Lucent TD-RR	3	30.636	33.699	0.50	0.75	4.56	0.000	0.000	245.67	0.00	0.00	189.00
120.0	Argus LLPX310R	3	30.636	33.699	0.63	0.75	6.08	0.000	0.000	327.89	0.00	0.00	77.22
120.0	DragonWave A-ANT-	2	30.636	33.699	0.90	0.75	6.33	0.000	0.000	341.39	0.00	0.00	48.78
120.0	RFS RFS APXV9TM14-	3	30.636	33.699	0.66	0.75	9.41	0.000	0.000	507.64	0.00	0.00	148.77
120.0	RFS APXVSPP18-C-	3	30.636	33.699	0.69	0.75	12.45	0.000	0.000	671.35	0.00	0.00	153.90
120.0	Flat Platform w/ Han	1	30.636	33.699	1.00	1.00	39.50	0.000	0.000	2,129.81	0.00	0.00	1,800.00
131.0	Powerwave Allgon	6	31.751	34.926	0.50	0.75	0.52	0.000	5.000	28.92	0.00	144.60	29.70
131.0	Powerwave Allgon	6	31.413	34.555	0.50	0.75	2.48	0.000	0.000	136.84	0.00	0.00	76.14
131.0	Raycap DC6-48-60-18-	1	31.413	34.555	1.00	0.75	0.96	0.000	0.000	53.08	0.00	0.00	28.62
131.0	Ericsson RRUS 11 (Ba	6	31.413	34.555	0.50	0.75	5.78	0.000	0.000	319.70	0.00	0.00	237.60
131.0	Powerwave Allgon 777	6	31.413	34.555	0.65	0.75	16.12	0.000	0.000	891.05	0.00	0.00	189.00
131.0	Powerwave Allgon	3	31.751	34.926	0.67	0.75	12.26	0.000	5.000	684.89	0.00	3,424.46	143.10
131.0	Flat Platform w/ Han	1	31.413	34.555	1.00	1.00	39.50	0.000	0.000	2,183.85	0.00	0.00	1,800.00
136.0	Generic RCU (Remote	6	31.950	35.145	0.33	0.80	0.25	0.000	3.000	14.25	0.00	42.75	5.40
136.0	Kathrein Scala 742-2	3	31.950	35.145	0.73	0.80	6.75	0.000	3.000	379.29	0.00	1,137.88	60.75
										21,609.14			12,356.01



Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:30 AM

Customer: T-MOBILE

**Load Case:** 0.9D + 1.6W

110 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

**Linear Appurtenance Segment Forces (Factored)**

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	qz (psf)	Ra	Cf Adjust Factor	FX (lb)	Dead Load (lb)
5.00	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	20.599	0.183	1.250	0.00	22.14
5.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.82	0.00	0.000	0.000	0.000	0.00	300.60
5.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	20.599	0.183	1.250	0.00	0.36
5.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	20.599	0.183	1.250	0.00	0.13
5.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	20.599	0.183	1.250	0.00	2.79
5.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.183	1.250	0.00	34.01
5.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	20.599	0.183	1.250	0.00	18.00
5.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.183	1.250	0.00	1.35
5.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	20.599	0.183	1.250	0.00	16.42
5.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.183	1.250	0.00	1.22
5.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.183	1.250	0.00	44.27
5.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.183	1.250	0.00	44.27
5.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	20.599	0.183	1.250	0.00	5.85
5.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.183	1.250	0.00	0.68
5.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	20.599	0.183	1.250	0.00	4.72
5.00	(14) 1 5/8" Coax	Yes	5.00	0.00	3.96	1.65	0.00	20.599	0.183	1.250	0.00	51.65
5.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.183	1.250	0.00	1.35
5.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.183	1.250	0.00	1.35
5.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.183	1.250	0.00	1.35
5.00	(4) DYWIDAG	Yes	5.00	0.00	2.50	1.04	0.00	20.599	0.183	1.250	0.00	0.00
10.00	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	20.599	0.188	1.263	0.00	22.14
10.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.82	0.00	0.000	0.000	0.000	0.00	300.60
10.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	20.599	0.188	1.263	0.00	0.36
10.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	20.599	0.188	1.263	0.00	0.13
10.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	20.599	0.188	1.263	0.00	2.79
10.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.188	1.263	0.00	34.01
10.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	20.599	0.188	1.263	0.00	18.00
10.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.188	1.263	0.00	1.35
10.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	20.599	0.188	1.263	0.00	16.42
10.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.188	1.263	0.00	1.22
10.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.188	1.263	0.00	44.27
10.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.188	1.263	0.00	44.27
10.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	20.599	0.188	1.263	0.00	5.85
10.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.188	1.263	0.00	0.68
10.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	20.599	0.188	1.263	0.00	4.72
10.00	(14) 1 5/8" Coax	Yes	5.00	0.00	3.96	1.65	0.00	20.599	0.188	1.263	0.00	51.65
10.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.188	1.263	0.00	1.35
10.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.188	1.263	0.00	1.35
10.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.188	1.263	0.00	1.35
10.00	(4) DYWIDAG	Yes	5.00	0.00	2.50	1.04	0.00	20.599	0.188	1.263	0.00	0.00
15.00	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	20.599	0.193	1.278	0.00	22.14
15.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.82	0.00	0.000	0.000	0.000	0.00	300.60
15.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	20.599	0.193	1.278	0.00	0.36
15.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	20.599	0.193	1.278	0.00	0.13
15.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	20.599	0.193	1.278	0.00	2.79
15.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.193	1.278	0.00	34.01
15.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	20.599	0.193	1.278	0.00	18.00
15.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.193	1.278	0.00	1.35
15.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	20.599	0.193	1.278	0.00	16.42
15.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.193	1.278	0.00	1.22
15.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.193	1.278	0.00	44.27

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:30 AM

Customer: T-MOBILE

**Load Case: 0.9D + 1.6W**

110 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

15.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.193	1.278	0.00	44.27
15.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	20.599	0.193	1.278	0.00	5.85
15.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.193	1.278	0.00	0.68
15.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	20.599	0.193	1.278	0.00	4.72
15.00	(14) 1 5/8" Coax	Yes	5.00	0.00	3.96	1.65	0.00	20.599	0.193	1.278	0.00	51.65
15.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.193	1.278	0.00	1.35
15.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.193	1.278	0.00	1.35
15.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.193	1.278	0.00	1.35
15.00	(4) DYWIDAG	Yes	5.00	0.00	2.50	1.04	0.00	20.599	0.193	1.278	0.00	0.00
20.00	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	20.599	0.197	1.292	0.00	22.14
20.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.82	0.00	0.000	0.000	0.000	0.00	300.60
20.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	20.599	0.197	1.292	0.00	0.36
20.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	20.599	0.197	1.292	0.00	0.13
20.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	20.599	0.197	1.292	0.00	2.79
20.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.197	1.292	0.00	34.01
20.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	20.599	0.197	1.292	0.00	18.00
20.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.197	1.292	0.00	1.35
20.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	20.599	0.197	1.292	0.00	16.42
20.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.197	1.292	0.00	1.22
20.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.197	1.292	0.00	44.27
20.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.197	1.292	0.00	44.27
20.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	20.599	0.197	1.292	0.00	5.85
20.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.197	1.292	0.00	0.68
20.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	20.599	0.197	1.292	0.00	4.72
20.00	(14) 1 5/8" Coax	Yes	5.00	0.00	3.96	1.65	0.00	20.599	0.197	1.292	0.00	51.65
20.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.197	1.292	0.00	1.35
20.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.197	1.292	0.00	1.35
20.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.197	1.292	0.00	1.35
20.00	(4) DYWIDAG	Yes	5.00	0.00	2.50	1.04	0.00	20.599	0.197	1.292	0.00	0.00
25.00	(6) 1 5/8" Coax	Yes	5.00	1.20	1.98	0.82	0.99	20.599	0.203	0.000	35.89	22.14
25.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.82	0.00	0.000	0.000	0.000	0.00	300.60
25.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	20.599	0.203	0.000	0.00	0.36
25.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	20.599	0.203	0.000	0.00	0.13
25.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	20.599	0.203	0.000	0.00	2.79
25.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.203	0.000	0.00	34.01
25.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	20.599	0.203	0.000	0.00	18.00
25.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.203	0.000	0.00	1.35
25.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	20.599	0.203	0.000	0.00	16.42
25.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.203	0.000	0.00	1.22
25.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.203	0.000	0.00	44.27
25.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.203	0.000	0.00	44.27
25.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	20.599	0.203	0.000	0.00	5.85
25.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.203	0.000	0.00	0.68
25.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	20.599	0.203	0.000	0.00	4.72
25.00	(14) 1 5/8" Coax	Yes	5.00	1.20	3.96	1.65	1.98	20.599	0.203	0.000	71.78	51.65
25.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.203	0.000	0.00	1.35
25.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.203	0.000	0.00	1.35
25.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.203	0.000	0.00	1.35
25.00	(4) DYWIDAG	Yes	5.00	1.20	2.50	1.04	1.25	20.599	0.203	0.000	45.32	0.00
30.00	(6) 1 5/8" Coax	Yes	5.00	1.20	1.98	0.82	0.99	20.599	0.208	0.000	35.89	22.14
30.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.82	0.00	0.000	0.000	0.000	0.00	300.60
30.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	20.599	0.208	0.000	0.00	0.36
30.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	20.599	0.208	0.000	0.00	0.13
30.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	20.599	0.208	0.000	0.00	2.79
30.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.208	0.000	0.00	34.01
30.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	20.599	0.208	0.000	0.00	18.00
30.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.208	0.000	0.00	1.35

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:30 AM

Customer: T-MOBILE

**Load Case: 0.9D + 1.6W**

110 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

30.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	20.599	0.208	0.000	0.00	16.42
30.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.208	0.000	0.00	1.22
30.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.208	0.000	0.00	44.27
30.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.208	0.000	0.00	44.27
30.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	20.599	0.208	0.000	0.00	5.85
30.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.208	0.000	0.00	0.68
30.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	20.599	0.208	0.000	0.00	4.72
30.00	(14) 1 5/8" Coax	Yes	5.00	1.20	3.96	1.65	1.98	20.599	0.208	0.000	71.78	51.65
30.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.208	0.000	0.00	1.35
30.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.208	0.000	0.00	1.35
30.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	20.599	0.208	0.000	0.00	1.35
30.00	(4) DYWIDAG	Yes	5.00	1.20	2.50	1.04	1.25	20.599	0.208	0.000	45.32	0.00
35.00	(6) 1 5/8" Coax	Yes	5.00	1.20	1.98	0.82	0.99	21.093	0.214	0.000	36.75	22.14
35.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.82	0.00	0.000	0.000	0.000	0.00	300.60
35.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	21.093	0.214	0.000	0.00	0.36
35.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	21.093	0.214	0.000	0.00	0.13
35.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	21.093	0.214	0.000	0.00	2.79
35.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	21.093	0.214	0.000	0.00	34.01
35.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	21.093	0.214	0.000	0.00	18.00
35.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	21.093	0.214	0.000	0.00	1.35
35.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	21.093	0.214	0.000	0.00	16.42
35.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	21.093	0.214	0.000	0.00	1.22
35.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	21.093	0.214	0.000	0.00	44.27
35.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	21.093	0.214	0.000	0.00	44.27
35.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	21.093	0.214	0.000	0.00	5.85
35.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	21.093	0.214	0.000	0.00	0.68
35.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	21.093	0.214	0.000	0.00	4.72
35.00	(14) 1 5/8" Coax	Yes	5.00	1.20	3.96	1.65	1.98	21.093	0.214	0.000	73.51	51.65
35.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	21.093	0.214	0.000	0.00	1.35
35.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	21.093	0.214	0.000	0.00	1.35
35.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	21.093	0.214	0.000	0.00	1.35
35.00	(4) DYWIDAG	Yes	5.00	1.20	2.50	1.04	1.25	21.093	0.214	0.000	46.41	0.00
40.00	(6) 1 5/8" Coax	Yes	5.00	1.20	1.98	0.82	0.99	21.974	0.220	0.000	38.29	22.14
40.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.82	0.00	0.000	0.000	0.000	0.00	300.60
40.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	21.974	0.220	0.000	0.00	0.36
40.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	21.974	0.220	0.000	0.00	0.13
40.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	21.974	0.220	0.000	0.00	2.79
40.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	21.974	0.220	0.000	0.00	34.01
40.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	21.974	0.220	0.000	0.00	18.00
40.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	21.974	0.220	0.000	0.00	1.35
40.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	21.974	0.220	0.000	0.00	16.42
40.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	21.974	0.220	0.000	0.00	1.22
40.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	21.974	0.220	0.000	0.00	44.27
40.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	21.974	0.220	0.000	0.00	44.27
40.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	21.974	0.220	0.000	0.00	5.85
40.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	21.974	0.220	0.000	0.00	0.68
40.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	21.974	0.220	0.000	0.00	4.72
40.00	(14) 1 5/8" Coax	Yes	5.00	1.20	3.96	1.65	1.98	21.974	0.220	0.000	76.57	51.65
40.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	21.974	0.220	0.000	0.00	1.35
40.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	21.974	0.220	0.000	0.00	1.35
40.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	21.974	0.220	0.000	0.00	1.35
40.00	(4) DYWIDAG	Yes	5.00	1.20	2.50	1.04	1.25	21.974	0.220	0.000	48.34	0.00
40.24	(6) 1 5/8" Coax	Yes	0.24	1.20	1.98	0.04	0.05	22.402	0.224	0.000	1.90	1.08
40.24	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.04	0.00	0.000	0.000	0.000	0.00	14.65
40.24	(1) 3/8" Coax	No	0.24	0.00	0.44	0.00	0.00	22.402	0.224	0.000	0.00	0.02
40.24	(1) 0.28" RG-6	No	0.24	0.00	0.00	0.00	0.00	22.402	0.224	0.000	0.00	0.01
40.24	(2) 0.65" 8 AWG 2C	No	0.24	0.00	0.00	0.00	0.00	22.402	0.224	0.000	0.00	0.14

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:31 AM

Customer: T-MOBILE

**Load Case: 0.9D + 1.6W**

**110 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

40.24	(12) 1 1/4" Coax	No	0.24	0.00	0.00	0.00	0.00	22.402	0.224	0.000	0.00	1.66
40.24	(4) 1 1/4" Hybriflex	No	0.24	0.00	0.00	0.00	0.00	22.402	0.224	0.000	0.00	0.88
40.24	(2) 1/2" Coax	No	0.24	0.00	0.00	0.00	0.00	22.402	0.224	0.000	0.00	0.07
40.24	(1) 2" Conduit	No	0.24	0.00	0.00	0.00	0.00	22.402	0.224	0.000	0.00	0.80
40.24	(6) 5/16" Coax	No	0.24	0.00	0.00	0.00	0.00	22.402	0.224	0.000	0.00	0.06
40.24	(12) 1 5/8" Coax	No	0.24	0.00	0.00	0.00	0.00	22.402	0.224	0.000	0.00	2.16
40.24	(12) 1 5/8" Coax	No	0.24	0.00	0.00	0.00	0.00	22.402	0.224	0.000	0.00	2.16
40.24	(1) 1 5/8" Hybriflex	No	0.24	0.00	0.00	0.00	0.00	22.402	0.224	0.000	0.00	0.29
40.24	(1) 1/2" Coax	No	0.24	0.00	0.00	0.00	0.00	22.402	0.224	0.000	0.00	0.03
40.24	(1) 1 1/4" Fiber	No	0.24	0.00	0.00	0.00	0.00	22.402	0.224	0.000	0.00	0.23
40.24	(14) 1 5/8" Coax	Yes	0.24	1.20	3.96	0.08	0.10	22.402	0.224	0.000	3.80	2.52
40.24	(2) 1/2" Coax	No	0.24	0.00	0.00	0.00	0.00	22.402	0.224	0.000	0.00	0.07
40.24	(2) 1/2" Coax	No	0.24	0.00	0.00	0.00	0.00	22.402	0.224	0.000	0.00	0.07
40.24	(2) 1/2" Coax	No	0.24	0.00	0.00	0.00	0.00	22.402	0.224	0.000	0.00	0.07
40.24	(4) DYWIDAG	Yes	0.24	1.20	2.50	0.05	0.06	22.402	0.224	0.000	2.40	0.00
45.00	(6) 1 5/8" Coax	Yes	4.76	1.20	1.98	0.78	0.94	22.792	0.227	0.000	37.78	21.06
45.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.78	0.00	0.000	0.000	0.000	0.00	285.95
45.00	(1) 3/8" Coax	No	4.76	0.00	0.44	0.00	0.00	22.792	0.227	0.000	0.00	0.34
45.00	(1) 0.28" RG-6	No	4.76	0.00	0.00	0.00	0.00	22.792	0.227	0.000	0.00	0.12
45.00	(2) 0.65" 8 AWG 2C	No	4.76	0.00	0.00	0.00	0.00	22.792	0.227	0.000	0.00	2.65
45.00	(12) 1 1/4" Coax	No	4.76	0.00	0.00	0.00	0.00	22.792	0.227	0.000	0.00	32.36
45.00	(4) 1 1/4" Hybriflex	No	4.76	0.00	0.00	0.00	0.00	22.792	0.227	0.000	0.00	17.12
45.00	(2) 1/2" Coax	No	4.76	0.00	0.00	0.00	0.00	22.792	0.227	0.000	0.00	1.28
45.00	(1) 2" Conduit	No	4.76	0.00	0.00	0.00	0.00	22.792	0.227	0.000	0.00	15.62
45.00	(6) 5/16" Coax	No	4.76	0.00	0.00	0.00	0.00	22.792	0.227	0.000	0.00	1.16
45.00	(12) 1 5/8" Coax	No	4.76	0.00	0.00	0.00	0.00	22.792	0.227	0.000	0.00	42.12
45.00	(12) 1 5/8" Coax	No	4.76	0.00	0.00	0.00	0.00	22.792	0.227	0.000	0.00	42.12
45.00	(1) 1 5/8" Hybriflex	No	4.76	0.00	0.00	0.00	0.00	22.792	0.227	0.000	0.00	5.56
45.00	(1) 1/2" Coax	No	4.76	0.00	0.00	0.00	0.00	22.792	0.227	0.000	0.00	0.64
45.00	(1) 1 1/4" Fiber	No	4.76	0.00	0.00	0.00	0.00	22.792	0.227	0.000	0.00	4.49
45.00	(14) 1 5/8" Coax	Yes	4.76	1.20	3.96	1.57	1.88	22.792	0.227	0.000	75.56	49.14
45.00	(2) 1/2" Coax	No	4.76	0.00	0.00	0.00	0.00	22.792	0.227	0.000	0.00	1.28
45.00	(2) 1/2" Coax	No	4.76	0.00	0.00	0.00	0.00	22.792	0.227	0.000	0.00	1.28
45.00	(2) 1/2" Coax	No	4.76	0.00	0.00	0.00	0.00	22.792	0.227	0.000	0.00	1.28
45.00	(4) DYWIDAG	Yes	4.76	1.20	2.50	0.99	1.19	22.792	0.227	0.000	47.70	0.00
45.40	(6) 1 5/8" Coax	Yes	0.40	1.20	1.98	0.07	0.08	23.178	0.230	0.000	3.23	1.77
45.40	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.07	0.00	0.000	0.000	0.000	0.00	24.04
45.40	(1) 3/8" Coax	No	0.40	0.00	0.44	0.00	0.00	23.178	0.230	0.000	0.00	0.03
45.40	(1) 0.28" RG-6	No	0.40	0.00	0.00	0.00	0.00	23.178	0.230	0.000	0.00	0.01
45.40	(2) 0.65" 8 AWG 2C	No	0.40	0.00	0.00	0.00	0.00	23.178	0.230	0.000	0.00	0.22
45.40	(12) 1 1/4" Coax	No	0.40	0.00	0.00	0.00	0.00	23.178	0.230	0.000	0.00	2.72
45.40	(4) 1 1/4" Hybriflex	No	0.40	0.00	0.00	0.00	0.00	23.178	0.230	0.000	0.00	1.44
45.40	(2) 1/2" Coax	No	0.40	0.00	0.00	0.00	0.00	23.178	0.230	0.000	0.00	0.11
45.40	(1) 2" Conduit	No	0.40	0.00	0.00	0.00	0.00	23.178	0.230	0.000	0.00	1.31
45.40	(6) 5/16" Coax	No	0.40	0.00	0.00	0.00	0.00	23.178	0.230	0.000	0.00	0.10
45.40	(12) 1 5/8" Coax	No	0.40	0.00	0.00	0.00	0.00	23.178	0.230	0.000	0.00	3.54
45.40	(12) 1 5/8" Coax	No	0.40	0.00	0.00	0.00	0.00	23.178	0.230	0.000	0.00	3.54
45.40	(1) 1 5/8" Hybriflex	No	0.40	0.00	0.00	0.00	0.00	23.178	0.230	0.000	0.00	0.47
45.40	(1) 1/2" Coax	No	0.40	0.00	0.00	0.00	0.00	23.178	0.230	0.000	0.00	0.05
45.40	(1) 1 1/4" Fiber	No	0.40	0.00	0.00	0.00	0.00	23.178	0.230	0.000	0.00	0.38
45.40	(14) 1 5/8" Coax	Yes	0.40	1.19	3.96	0.13	0.16	23.178	0.230	0.000	6.42	4.13
45.40	(2) 1/2" Coax	No	0.40	0.00	0.00	0.00	0.00	23.178	0.230	0.000	0.00	0.11
45.40	(2) 1/2" Coax	No	0.40	0.00	0.00	0.00	0.00	23.178	0.230	0.000	0.00	0.11
45.40	(2) 1/2" Coax	No	0.40	0.00	0.00	0.00	0.00	23.178	0.230	0.000	0.00	0.11
45.40	(4) DYWIDAG	Yes	0.40	1.20	2.50	0.08	0.10	23.178	0.230	0.000	4.08	0.00
50.00	(6) 1 5/8" Coax	Yes	4.60	1.20	1.98	0.76	0.91	23.537	0.229	0.000	37.73	20.37
50.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.76	0.00	0.000	0.000	0.000	0.00	276.56

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:31 AM

Customer: T-MOBILE

**Load Case: 0.9D + 1.6W**

110 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

50.00	(1) 3/8" Coax	No	4.60	0.00	0.44	0.00	0.00	23.537	0.229	0.000	0.00	0.33
50.00	(1) 0.28" RG-6	No	4.60	0.00	0.00	0.00	0.00	23.537	0.229	0.000	0.00	0.12
50.00	(2) 0.65" 8 AWG 2C	No	4.60	0.00	0.00	0.00	0.00	23.537	0.229	0.000	0.00	2.57
50.00	(12) 1 1/4" Coax	No	4.60	0.00	0.00	0.00	0.00	23.537	0.229	0.000	0.00	31.29
50.00	(4) 1 1/4" Hybriflex	No	4.60	0.00	0.00	0.00	0.00	23.537	0.229	0.000	0.00	16.56
50.00	(2) 1/2" Coax	No	4.60	0.00	0.00	0.00	0.00	23.537	0.229	0.000	0.00	1.24
50.00	(1) 2" Conduit	No	4.60	0.00	0.00	0.00	0.00	23.537	0.229	0.000	0.00	15.11
50.00	(6) 5/16" Coax	No	4.60	0.00	0.00	0.00	0.00	23.537	0.229	0.000	0.00	1.12
50.00	(12) 1 5/8" Coax	No	4.60	0.00	0.00	0.00	0.00	23.537	0.229	0.000	0.00	40.73
50.00	(12) 1 5/8" Coax	No	4.60	0.00	0.00	0.00	0.00	23.537	0.229	0.000	0.00	40.73
50.00	(1) 1 5/8" Hybriflex	No	4.60	0.00	0.00	0.00	0.00	23.537	0.229	0.000	0.00	5.38
50.00	(1) 1/2" Coax	No	4.60	0.00	0.00	0.00	0.00	23.537	0.229	0.000	0.00	0.62
50.00	(1) 1 1/4" Fiber	No	4.60	0.00	0.00	0.00	0.00	23.537	0.229	0.000	0.00	4.35
50.00	(14) 1 5/8" Coax	Yes	4.60	1.18	3.96	1.52	1.80	23.537	0.229	0.000	74.38	47.52
50.00	(2) 1/2" Coax	No	4.60	0.00	0.00	0.00	0.00	23.537	0.229	0.000	0.00	1.24
50.00	(2) 1/2" Coax	No	4.60	0.00	0.00	0.00	0.00	23.537	0.229	0.000	0.00	1.24
50.00	(2) 1/2" Coax	No	4.60	0.00	0.00	0.00	0.00	23.537	0.229	0.000	0.00	1.24
50.00	(4) DYWIDAG	Yes	4.60	1.20	2.50	0.96	1.15	23.537	0.229	0.000	47.64	0.00
55.00	(6) 1 5/8" Coax	Yes	5.00	1.20	1.98	0.82	0.99	24.191	0.236	0.000	42.15	22.14
55.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.82	0.00	0.000	0.000	0.000	0.00	300.60
55.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	24.191	0.236	0.000	0.00	0.36
55.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	24.191	0.236	0.000	0.00	0.13
55.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	24.191	0.236	0.000	0.00	2.79
55.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	24.191	0.236	0.000	0.00	34.01
55.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	24.191	0.236	0.000	0.00	18.00
55.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	24.191	0.236	0.000	0.00	1.35
55.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	24.191	0.236	0.000	0.00	16.42
55.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	24.191	0.236	0.000	0.00	1.22
55.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	24.191	0.236	0.000	0.00	44.27
55.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	24.191	0.236	0.000	0.00	44.27
55.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	24.191	0.236	0.000	0.00	5.85
55.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	24.191	0.236	0.000	0.00	0.68
55.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	24.191	0.236	0.000	0.00	4.72
55.00	(14) 1 5/8" Coax	Yes	5.00	1.16	3.96	1.65	1.93	24.191	0.236	0.000	81.96	51.65
55.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	24.191	0.236	0.000	0.00	1.35
55.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	24.191	0.236	0.000	0.00	1.35
55.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	24.191	0.236	0.000	0.00	1.35
55.00	(4) DYWIDAG	Yes	5.00	1.20	2.50	1.04	1.25	24.191	0.236	0.000	53.22	0.00
55.68	(6) 1 5/8" Coax	Yes	0.68	1.20	1.98	0.11	0.13	24.558	0.240	0.000	5.79	3.00
55.68	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.11	0.00	0.000	0.000	0.000	0.00	40.70
55.68	(1) 3/8" Coax	No	0.68	0.00	0.44	0.00	0.00	24.558	0.240	0.000	0.00	0.05
55.68	(1) 0.28" RG-6	No	0.68	0.00	0.00	0.00	0.00	24.558	0.240	0.000	0.00	0.02
55.68	(2) 0.65" 8 AWG 2C	No	0.68	0.00	0.00	0.00	0.00	24.558	0.240	0.000	0.00	0.38
55.68	(12) 1 1/4" Coax	No	0.68	0.00	0.00	0.00	0.00	24.558	0.240	0.000	0.00	4.61
55.68	(4) 1 1/4" Hybriflex	No	0.68	0.00	0.00	0.00	0.00	24.558	0.240	0.000	0.00	2.44
55.68	(2) 1/2" Coax	No	0.68	0.00	0.00	0.00	0.00	24.558	0.240	0.000	0.00	0.18
55.68	(1) 2" Conduit	No	0.68	0.00	0.00	0.00	0.00	24.558	0.240	0.000	0.00	2.22
55.68	(6) 5/16" Coax	No	0.68	0.00	0.00	0.00	0.00	24.558	0.240	0.000	0.00	0.16
55.68	(12) 1 5/8" Coax	No	0.68	0.00	0.00	0.00	0.00	24.558	0.240	0.000	0.00	5.99
55.68	(12) 1 5/8" Coax	No	0.68	0.00	0.00	0.00	0.00	24.558	0.240	0.000	0.00	5.99
55.68	(1) 1 5/8" Hybriflex	No	0.68	0.00	0.00	0.00	0.00	24.558	0.240	0.000	0.00	0.79
55.68	(1) 1/2" Coax	No	0.68	0.00	0.00	0.00	0.00	24.558	0.240	0.000	0.00	0.09
55.68	(1) 1 1/4" Fiber	No	0.68	0.00	0.00	0.00	0.00	24.558	0.240	0.000	0.00	0.64
55.68	(14) 1 5/8" Coax	Yes	0.68	1.15	3.96	0.22	0.26	24.558	0.240	0.000	11.18	6.99
55.68	(2) 1/2" Coax	No	0.68	0.00	0.00	0.00	0.00	24.558	0.240	0.000	0.00	0.18
55.68	(2) 1/2" Coax	No	0.68	0.00	0.00	0.00	0.00	24.558	0.240	0.000	0.00	0.18
55.68	(2) 1/2" Coax	No	0.68	0.00	0.00	0.00	0.00	24.558	0.240	0.000	0.00	0.18

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:31 AM

Customer: T-MOBILE

**Load Case: 0.9D + 1.6W**

110 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

55.68	(4) DYWIDAG	Yes	0.68	1.20	2.50	0.14	0.17	24.558	0.240	0.000	7.32	0.00
60.00	(6) 1 5/8" Coax	Yes	4.32	1.20	1.98	0.71	0.86	24.870	0.244	0.000	37.47	19.14
60.00	(1) 3/8" Coax	No	4.32	0.00	0.44	0.00	0.00	24.870	0.244	0.000	0.00	0.31
60.00	(1) 0.28" RG-6	No	4.32	0.00	0.00	0.00	0.00	24.870	0.244	0.000	0.00	0.11
60.00	(2) 0.65" 8 AWG 2C	No	4.32	0.00	0.00	0.00	0.00	24.870	0.244	0.000	0.00	2.41
60.00	(12) 1 1/4" Coax	No	4.32	0.00	0.00	0.00	0.00	24.870	0.244	0.000	0.00	29.41
60.00	(4) 1 1/4" Hybriflex	No	4.32	0.00	0.00	0.00	0.00	24.870	0.244	0.000	0.00	15.56
60.00	(2) 1/2" Coax	No	4.32	0.00	0.00	0.00	0.00	24.870	0.244	0.000	0.00	1.17
60.00	(1) 2" Conduit	No	4.32	0.00	0.00	0.00	0.00	24.870	0.244	0.000	0.00	14.20
60.00	(6) 5/16" Coax	No	4.32	0.00	0.00	0.00	0.00	24.870	0.244	0.000	0.00	1.05
60.00	(12) 1 5/8" Coax	No	4.32	0.00	0.00	0.00	0.00	24.870	0.244	0.000	0.00	38.28
60.00	(12) 1 5/8" Coax	No	4.32	0.00	0.00	0.00	0.00	24.870	0.244	0.000	0.00	38.28
60.00	(1) 1 5/8" Hybriflex	No	4.32	0.00	0.00	0.00	0.00	24.870	0.244	0.000	0.00	5.06
60.00	(1) 1/2" Coax	No	4.32	0.00	0.00	0.00	0.00	24.870	0.244	0.000	0.00	0.58
60.00	(1) 1 1/4" Fiber	No	4.32	0.00	0.00	0.00	0.00	24.870	0.244	0.000	0.00	4.09
60.00	(14) 1 5/8" Coax	Yes	4.32	1.15	3.96	1.43	1.64	24.870	0.244	0.000	71.85	44.66
60.00	(2) 1/2" Coax	No	4.32	0.00	0.00	0.00	0.00	24.870	0.244	0.000	0.00	1.17
60.00	(2) 1/2" Coax	No	4.32	0.00	0.00	0.00	0.00	24.870	0.244	0.000	0.00	1.17
60.00	(2) 1/2" Coax	No	4.32	0.00	0.00	0.00	0.00	24.870	0.244	0.000	0.00	1.17
60.00	(4) DYWIDAG	Yes	4.32	1.20	2.50	0.90	1.08	24.870	0.244	0.000	47.31	0.00
65.00	(6) 1 5/8" Coax	Yes	5.00	1.20	1.98	0.82	0.99	25.427	0.221	0.000	44.30	22.14
65.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	25.427	0.221	0.000	0.00	0.36
65.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	25.427	0.221	0.000	0.00	0.13
65.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	25.427	0.221	0.000	0.00	2.79
65.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	25.427	0.221	0.000	0.00	34.01
65.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	25.427	0.221	0.000	0.00	18.00
65.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	25.427	0.221	0.000	0.00	1.35
65.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	25.427	0.221	0.000	0.00	16.42
65.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	25.427	0.221	0.000	0.00	1.22
65.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	25.427	0.221	0.000	0.00	44.27
65.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	25.427	0.221	0.000	0.00	44.27
65.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	25.427	0.221	0.000	0.00	5.85
65.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	25.427	0.221	0.000	0.00	0.68
65.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	25.427	0.221	0.000	0.00	4.72
65.00	(14) 1 5/8" Coax	Yes	5.00	1.13	3.96	1.65	1.88	25.427	0.221	0.000	84.03	51.65
65.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	25.427	0.221	0.000	0.00	1.35
65.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	25.427	0.221	0.000	0.00	1.35
65.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	25.427	0.221	0.000	0.00	1.35
65.00	(4) DYWIDAG	Yes	3.00	1.20	2.50	0.63	0.75	25.427	0.221	0.000	33.56	0.00
70.00	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	25.992	0.183	1.248	0.00	22.14
70.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	25.992	0.183	1.248	0.00	0.36
70.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	25.992	0.183	1.248	0.00	0.13
70.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	25.992	0.183	1.248	0.00	2.79
70.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	25.992	0.183	1.248	0.00	34.01
70.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	25.992	0.183	1.248	0.00	18.00
70.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	25.992	0.183	1.248	0.00	1.35
70.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	25.992	0.183	1.248	0.00	16.42
70.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	25.992	0.183	1.248	0.00	1.22
70.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	25.992	0.183	1.248	0.00	44.27
70.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	25.992	0.183	1.248	0.00	44.27
70.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	25.992	0.183	1.248	0.00	5.85
70.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	25.992	0.183	1.248	0.00	0.68
70.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	25.992	0.183	1.248	0.00	4.72
70.00	(14) 1 5/8" Coax	Yes	5.00	0.00	3.96	1.65	0.00	25.992	0.183	1.248	0.00	51.65
70.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	25.992	0.183	1.248	0.00	1.35
70.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	25.992	0.183	1.248	0.00	1.35
70.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	25.992	0.183	1.248	0.00	1.35

<b>Load Case: 0.9D + 1.6W</b>	<b>110 mph with No Ice (Reduced DL)</b>	<b>25 Iterations</b>
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 0.90		
Wind Load Factor : 1.60		

75.00	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	26.528	0.189	1.267	0.00	22.14
75.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	26.528	0.189	1.267	0.00	0.36
75.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	26.528	0.189	1.267	0.00	0.13
75.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	26.528	0.189	1.267	0.00	2.79
75.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	26.528	0.189	1.267	0.00	34.01
75.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	26.528	0.189	1.267	0.00	18.00
75.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	26.528	0.189	1.267	0.00	1.35
75.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	26.528	0.189	1.267	0.00	16.42
75.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	26.528	0.189	1.267	0.00	1.22
75.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	26.528	0.189	1.267	0.00	44.27
75.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	26.528	0.189	1.267	0.00	44.27
75.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	26.528	0.189	1.267	0.00	5.85
75.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	26.528	0.189	1.267	0.00	0.68
75.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	26.528	0.189	1.267	0.00	4.72
75.00	(14) 1 5/8" Coax	Yes	5.00	0.00	3.96	1.65	0.00	26.528	0.189	1.267	0.00	51.65
75.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	26.528	0.189	1.267	0.00	1.35
75.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	26.528	0.189	1.267	0.00	1.35
80.00	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	27.038	0.196	1.288	0.00	22.14
80.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	27.038	0.196	1.288	0.00	0.36
80.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	27.038	0.196	1.288	0.00	0.13
80.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	27.038	0.196	1.288	0.00	2.79
80.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	27.038	0.196	1.288	0.00	34.01
80.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	27.038	0.196	1.288	0.00	18.00
80.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	27.038	0.196	1.288	0.00	1.35
80.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	27.038	0.196	1.288	0.00	16.42
80.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	27.038	0.196	1.288	0.00	1.22
80.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	27.038	0.196	1.288	0.00	44.27
80.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	27.038	0.196	1.288	0.00	44.27
80.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	27.038	0.196	1.288	0.00	5.85
80.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	27.038	0.196	1.288	0.00	0.68
80.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	27.038	0.196	1.288	0.00	4.72
80.00	(14) 1 5/8" Coax	Yes	5.00	0.00	3.96	1.65	0.00	27.038	0.196	1.288	0.00	51.65
80.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	27.038	0.196	1.288	0.00	1.35
80.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	27.038	0.196	1.288	0.00	1.35
80.75	(6) 1 5/8" Coax	Yes	0.75	1.20	1.98	0.12	0.15	27.321	0.200	0.000	7.13	3.31
80.75	(1) 3/8" Coax	No	0.75	0.00	0.44	0.00	0.00	27.321	0.200	0.000	0.00	0.05
80.75	(1) 0.28" RG-6	No	0.75	0.00	0.00	0.00	0.00	27.321	0.200	0.000	0.00	0.02
80.75	(2) 0.65" 8 AWG 2C	No	0.75	0.00	0.00	0.00	0.00	27.321	0.200	0.000	0.00	0.42
80.75	(12) 1 1/4" Coax	No	0.75	0.00	0.00	0.00	0.00	27.321	0.200	0.000	0.00	5.09
80.75	(4) 1 1/4" Hybriflex	No	0.75	0.00	0.00	0.00	0.00	27.321	0.200	0.000	0.00	2.69
80.75	(2) 1/2" Coax	No	0.75	0.00	0.00	0.00	0.00	27.321	0.200	0.000	0.00	0.20
80.75	(1) 2" Conduit	No	0.75	0.00	0.00	0.00	0.00	27.321	0.200	0.000	0.00	2.46
80.75	(6) 5/16" Coax	No	0.75	0.00	0.00	0.00	0.00	27.321	0.200	0.000	0.00	0.18
80.75	(12) 1 5/8" Coax	No	0.75	0.00	0.00	0.00	0.00	27.321	0.200	0.000	0.00	6.63
80.75	(12) 1 5/8" Coax	No	0.75	0.00	0.00	0.00	0.00	27.321	0.200	0.000	0.00	6.63
80.75	(1) 1 5/8" Hybriflex	No	0.75	0.00	0.00	0.00	0.00	27.321	0.200	0.000	0.00	0.88
80.75	(1) 1/2" Coax	No	0.75	0.00	0.00	0.00	0.00	27.321	0.200	0.000	0.00	0.10
80.75	(1) 1 1/4" Fiber	No	0.75	0.00	0.00	0.00	0.00	27.321	0.200	0.000	0.00	0.71
80.75	(14) 1 5/8" Coax	Yes	0.75	1.09	3.96	0.25	0.27	27.321	0.200	0.000	13.04	7.73
84.90	(6) 1 5/8" Coax	Yes	4.15	1.20	1.98	0.68	0.82	27.556	0.204	0.000	39.86	18.38
84.90	(1) 3/8" Coax	No	4.15	0.00	0.44	0.00	0.00	27.556	0.204	0.000	0.00	0.30
84.90	(1) 0.28" RG-6	No	4.15	0.00	0.00	0.00	0.00	27.556	0.204	0.000	0.00	0.11
84.90	(2) 0.65" 8 AWG 2C	No	4.15	0.00	0.00	0.00	0.00	27.556	0.204	0.000	0.00	2.32
84.90	(12) 1 1/4" Coax	No	4.15	0.00	0.00	0.00	0.00	27.556	0.204	0.000	0.00	28.24
84.90	(4) 1 1/4" Hybriflex	No	4.15	0.00	0.00	0.00	0.00	27.556	0.204	0.000	0.00	14.94
84.90	(2) 1/2" Coax	No	4.15	0.00	0.00	0.00	0.00	27.556	0.204	0.000	0.00	1.12
84.90	(1) 2" Conduit	No	4.15	0.00	0.00	0.00	0.00	27.556	0.204	0.000	0.00	13.64

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:32 AM

Customer: T-MOBILE

**Load Case: 0.9D + 1.6W**

110 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

84.90	(6) 5/16" Coax	No	4.15	0.00	0.00	0.00	0.00	27.556	0.204	0.000	0.00	1.01
84.90	(12) 1 5/8" Coax	No	4.15	0.00	0.00	0.00	0.00	27.556	0.204	0.000	0.00	36.76
84.90	(12) 1 5/8" Coax	No	4.15	0.00	0.00	0.00	0.00	27.556	0.204	0.000	0.00	36.76
84.90	(1) 1 5/8" Hybriflex	No	4.15	0.00	0.00	0.00	0.00	27.556	0.204	0.000	0.00	4.86
84.90	(1) 1/2" Coax	No	4.15	0.00	0.00	0.00	0.00	27.556	0.204	0.000	0.00	0.56
84.90	(1) 1 1/4" Fiber	No	4.15	0.00	0.00	0.00	0.00	27.556	0.204	0.000	0.00	3.92
84.90	(14) 1 5/8" Coax	Yes	4.15	1.09	3.96	1.37	1.50	27.556	0.204	0.000	72.63	42.88
85.00	(6) 1 5/8" Coax	Yes	0.10	1.20	1.98	0.02	0.02	27.757	0.204	0.000	0.97	0.44
85.00	(1) 3/8" Coax	No	0.10	0.00	0.44	0.00	0.00	27.757	0.204	0.000	0.00	0.01
85.00	(1) 0.28" RG-6	No	0.10	0.00	0.00	0.00	0.00	27.757	0.204	0.000	0.00	0.00
85.00	(2) 0.65" 8 AWG 2C	No	0.10	0.00	0.00	0.00	0.00	27.757	0.204	0.000	0.00	0.06
85.00	(12) 1 1/4" Coax	No	0.10	0.00	0.00	0.00	0.00	27.757	0.204	0.000	0.00	0.68
85.00	(4) 1 1/4" Hybriflex	No	0.10	0.00	0.00	0.00	0.00	27.757	0.204	0.000	0.00	0.36
85.00	(2) 1/2" Coax	No	0.10	0.00	0.00	0.00	0.00	27.757	0.204	0.000	0.00	0.03
85.00	(1) 2" Conduit	No	0.10	0.00	0.00	0.00	0.00	27.757	0.204	0.000	0.00	0.33
85.00	(6) 5/16" Coax	No	0.10	0.00	0.00	0.00	0.00	27.757	0.204	0.000	0.00	0.02
85.00	(12) 1 5/8" Coax	No	0.10	0.00	0.00	0.00	0.00	27.757	0.204	0.000	0.00	0.89
85.00	(12) 1 5/8" Coax	No	0.10	0.00	0.00	0.00	0.00	27.757	0.204	0.000	0.00	0.89
85.00	(1) 1 5/8" Hybriflex	No	0.10	0.00	0.00	0.00	0.00	27.757	0.204	0.000	0.00	0.12
85.00	(1) 1/2" Coax	No	0.10	0.00	0.00	0.00	0.00	27.757	0.204	0.000	0.00	0.01
85.00	(1) 1 1/4" Fiber	No	0.10	0.00	0.00	0.00	0.00	27.757	0.204	0.000	0.00	0.09
85.00	(14) 1 5/8" Coax	Yes	0.10	1.08	3.96	0.03	0.04	27.757	0.204	0.000	1.76	1.04
90.00	(6) 1 5/8" Coax	Yes	5.00	1.20	1.98	0.82	0.99	27.992	0.208	0.000	48.77	22.14
90.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	27.992	0.208	0.000	0.00	0.36
90.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	27.992	0.208	0.000	0.00	0.13
90.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	27.992	0.208	0.000	0.00	2.79
90.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	27.992	0.208	0.000	0.00	34.01
90.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	27.992	0.208	0.000	0.00	18.00
90.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	27.992	0.208	0.000	0.00	1.35
90.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	27.992	0.208	0.000	0.00	16.42
90.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	27.992	0.208	0.000	0.00	1.22
90.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	27.992	0.208	0.000	0.00	44.27
90.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	27.992	0.208	0.000	0.00	44.27
90.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	27.992	0.208	0.000	0.00	5.85
90.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	27.992	0.208	0.000	0.00	0.68
90.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	27.992	0.208	0.000	0.00	4.72
90.00	(14) 1 5/8" Coax	Yes	5.00	1.08	3.96	1.65	1.79	27.992	0.208	0.000	88.17	51.65
95.00	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	28.440	0.072	0.000	0.00	22.14
95.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	28.440	0.072	0.000	0.00	0.36
95.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	28.440	0.072	0.000	0.00	0.13
95.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	28.440	0.072	0.000	0.00	2.79
95.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	28.440	0.072	0.000	0.00	34.01
95.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	28.440	0.072	0.000	0.00	18.00
95.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	28.440	0.072	0.000	0.00	1.35
95.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	28.440	0.072	0.000	0.00	16.42
95.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	28.440	0.072	0.000	0.00	1.22
95.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	28.440	0.072	0.000	0.00	44.27
95.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	28.440	0.072	0.000	0.00	44.27
95.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	28.440	0.072	0.000	0.00	5.85
95.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	28.440	0.072	0.000	0.00	0.68
100.0	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	28.871	0.075	0.000	0.00	22.14
100.0	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	28.871	0.075	0.000	0.00	0.36
100.0	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	28.871	0.075	0.000	0.00	0.13
100.0	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	28.871	0.075	0.000	0.00	2.79
100.0	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	28.871	0.075	0.000	0.00	34.01
100.0	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	28.871	0.075	0.000	0.00	18.00
100.0	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	28.871	0.075	0.000	0.00	1.35



Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:32 AM

Customer: T-MOBILE

**Load Case: 0.9D + 1.6W**

110 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

100.0	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	28.871	0.075	0.000	0.00	16.42
100.0	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	28.871	0.075	0.000	0.00	1.22
100.0	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	28.871	0.075	0.000	0.00	44.27
100.0	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	28.871	0.075	0.000	0.00	44.27
100.0	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	28.871	0.075	0.000	0.00	5.85
100.0	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	28.871	0.075	0.000	0.00	0.68
105.0	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	29.287	0.078	0.000	0.00	22.14
105.0	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	29.287	0.078	0.000	0.00	0.36
105.0	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	29.287	0.078	0.000	0.00	0.13
105.0	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	29.287	0.078	0.000	0.00	2.79
105.0	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	29.287	0.078	0.000	0.00	34.01
105.0	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	29.287	0.078	0.000	0.00	18.00
105.0	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	29.287	0.078	0.000	0.00	1.35
105.0	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	29.287	0.078	0.000	0.00	16.42
105.0	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	29.287	0.078	0.000	0.00	1.22
105.0	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	29.287	0.078	0.000	0.00	44.27
110.0	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	29.688	0.082	0.000	0.00	22.14
110.0	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	29.688	0.082	0.000	0.00	0.36
110.0	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	29.688	0.082	0.000	0.00	0.13
110.0	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	29.688	0.082	0.000	0.00	2.79
110.0	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	29.688	0.082	0.000	0.00	34.01
110.0	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	29.688	0.082	0.000	0.00	18.00
110.0	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	29.688	0.082	0.000	0.00	1.35
110.0	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	29.688	0.082	0.000	0.00	16.42
110.0	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	29.688	0.082	0.000	0.00	1.22
110.0	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	29.688	0.082	0.000	0.00	44.27
115.0	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	30.076	0.086	0.000	0.00	22.14
115.0	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	30.076	0.086	0.000	0.00	0.36
115.0	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	30.076	0.086	0.000	0.00	0.13
115.0	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	30.076	0.086	0.000	0.00	2.79
115.0	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	30.076	0.086	0.000	0.00	34.01
115.0	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	30.076	0.086	0.000	0.00	18.00
115.0	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	30.076	0.086	0.000	0.00	1.35
115.0	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	30.076	0.086	0.000	0.00	16.42
115.0	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	30.076	0.086	0.000	0.00	1.22
120.0	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	30.452	0.090	0.000	0.00	22.14
120.0	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	30.452	0.090	0.000	0.00	0.36
120.0	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	30.452	0.090	0.000	0.00	0.13
120.0	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	30.452	0.090	0.000	0.00	2.79
120.0	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	30.452	0.090	0.000	0.00	34.01
120.0	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	30.452	0.090	0.000	0.00	18.00
120.0	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	30.452	0.090	0.000	0.00	1.35
120.0	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	30.452	0.090	0.000	0.00	16.42
120.0	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	30.452	0.090	0.000	0.00	1.22
125.0	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	30.817	0.095	0.000	0.00	22.14
125.0	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	30.817	0.095	0.000	0.00	0.36
125.0	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	30.817	0.095	0.000	0.00	0.13
125.0	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	30.817	0.095	0.000	0.00	2.79
125.0	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	30.817	0.095	0.000	0.00	34.01
125.8	(6) 1 5/8" Coax	Yes	0.80	0.00	1.98	0.13	0.00	31.024	0.098	0.000	0.00	3.54
125.8	(1) 3/8" Coax	No	0.80	0.00	0.44	0.00	0.00	31.024	0.098	0.000	0.00	0.06
125.8	(1) 0.28" RG-6	No	0.80	0.00	0.00	0.00	0.00	31.024	0.098	0.000	0.00	0.02
125.8	(2) 0.65" 8 AWG 2C	No	0.80	0.00	0.00	0.00	0.00	31.024	0.098	0.000	0.00	0.45
125.8	(12) 1 1/4" Coax	No	0.80	0.00	0.00	0.00	0.00	31.024	0.098	0.000	0.00	5.45
130.0	(6) 1 5/8" Coax	Yes	4.20	0.00	1.98	0.69	0.00	31.199	0.184	1.253	0.00	18.59
130.0	(1) 3/8" Coax	No	4.20	0.00	0.44	0.00	0.00	31.199	0.184	1.253	0.00	0.30
130.0	(1) 0.28" RG-6	No	4.20	0.00	0.00	0.00	0.00	31.199	0.184	1.253	0.00	0.11

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:32 AM

Customer: T-MOBILE

**Load Case: 0.9D + 1.6W**

110 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

130.0	(2) 0.65" 8 AWG 2C	No	4.20	0.00	0.00	0.00	0.00	31.199	0.184	1.253	0.00	2.34
130.0	(12) 1 1/4" Coax	No	4.20	0.00	0.00	0.00	0.00	31.199	0.184	1.253	0.00	28.57
131.0	(6) 1 5/8" Coax	Yes	1.00	0.00	1.98	0.17	0.00	31.379	0.184	1.253	0.00	4.43
131.0	(1) 3/8" Coax	No	1.00	0.00	0.44	0.00	0.00	31.379	0.184	1.253	0.00	0.07
131.0	(1) 0.28" RG-6	No	1.00	0.00	0.00	0.00	0.00	31.379	0.184	1.253	0.00	0.03
131.0	(2) 0.65" 8 AWG 2C	No	1.00	0.00	0.00	0.00	0.00	31.379	0.184	1.253	0.00	0.56
131.0	(12) 1 1/4" Coax	No	1.00	0.00	0.00	0.00	0.00	31.379	0.184	1.253	0.00	6.80
135.0	(6) 1 5/8" Coax	Yes	4.00	0.00	1.98	0.66	0.00	31.550	0.184	1.253	0.00	17.71
135.0	(1) 3/8" Coax	No	4.00	0.00	0.44	0.00	0.00	31.550	0.184	1.253	0.00	0.29
136.0	(6) 1 5/8" Coax	Yes	1.00	0.00	1.98	0.17	0.00	31.718	0.184	1.253	0.00	4.43
136.0	(1) 3/8" Coax	No	1.00	0.00	0.44	0.00	0.00	31.718	0.184	1.253	0.00	0.07
<b>Totals:</b>											<b>1,760.95</b>	<b>8,881.60</b>

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:32 AM

Customer: T-MOBILE

**Load Case:** 0.9D + 1.6W

110 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		347.7	0.0					0.0	0.0	347.7	0.0	0.0	0.0
5.00		687.1	949.8					0.0	552.5	687.1	1,502.3	0.0	0.0
10.00		670.5	926.9					0.0	552.5	670.5	1,479.4	0.0	0.0
15.00		653.9	903.9					0.0	552.5	653.9	1,456.5	0.0	0.0
20.00		700.1	881.0					0.0	552.5	700.1	1,433.5	0.0	0.0
25.00		744.7	858.1					153.0	552.5	897.7	1,410.6	0.0	0.0
30.00		733.4	835.1					153.0	552.5	886.4	1,387.7	0.0	0.0
35.00		736.6	812.2					156.7	552.5	893.3	1,364.7	0.0	0.0
40.00		388.7	789.3					163.2	552.5	551.9	1,341.8	0.0	0.0
40.24	Bot - Section 2	380.5	37.9					8.1	26.9	388.6	64.8	0.0	0.0
45.00		392.9	1,367.1					161.0	525.6	553.9	1,892.7	0.0	0.0
45.40	Top - Section 1	381.8	113.2					13.7	44.2	395.5	157.4	0.0	0.0
50.00		732.4	599.3					159.8	508.3	892.1	1,107.7	0.0	0.0
55.00		432.6	632.6					177.3	552.5	609.9	1,185.1	0.0	0.0
55.68	Reinf. Top	379.1	84.1					24.3	74.8	403.4	158.9	0.0	0.0
60.00		703.6	528.8					156.6	217.8	860.2	746.6	0.0	0.0
65.00		685.7	593.2					161.9	251.9	847.6	845.2	0.0	0.0
70.00	Appertunance(s)	615.2	573.6	35.1	0.0	0.0	27.5	0.0	251.9	650.4	853.1	0.0	0.0
75.00		605.9	553.9					0.0	250.6	605.9	804.5	0.0	0.0
80.00	Appertunance(s)	353.8	534.3	470.8	0.0	326.1	139.1	0.0	250.6	824.6	924.0	0.0	0.0
80.75	Bot - Section 3	351.8	78.3					20.2	37.1	372.0	115.4	0.0	0.0
84.90	Top - Section 2	305.6	716.7					112.5	205.8	418.1	922.5	0.0	0.0
85.00		359.7	6.9					2.7	5.0	362.4	11.9	0.0	0.0
90.00	Appertunance(s)	639.5	337.7	4,321.3	0.0	0.0	2,641.0	136.9	247.9	5,097.7	3,226.6	0.0	0.0
95.00		566.6	324.6					0.0	191.5	566.6	516.1	0.0	0.0
100.00	Appertunance(s)	551.5	311.5	4,138.3	0.0	77.6	2,203.9	0.0	191.5	4,689.9	2,706.9	0.0	0.0
105.00		535.5	298.4					0.0	140.7	535.5	439.1	0.0	0.0
110.00	Appertunance(s)	518.5	285.3	3,340.4	0.0	0.0	1,908.0	0.0	140.7	3,859.0	2,334.0	0.0	0.0
115.00		500.7	272.1					0.0	96.4	500.7	368.6	0.0	0.0
120.00	Appertunance(s)	482.1	259.0	4,611.3	0.0	0.0	2,866.0	0.0	96.4	5,093.5	3,221.5	0.0	0.0
125.00		273.2	245.9					0.0	59.4	273.2	305.4	0.0	0.0
125.80	Top - Section 3	98.9	38.2					0.0	9.5	98.9	47.7	0.0	0.0
130.00		76.8	157.2					0.0	49.9	76.8	207.1	0.0	0.0
131.00	Appertunance(s)	74.5	37.4	4,298.3	0.0	3,569.1	2,504.2	0.0	11.9	4,372.9	2,553.5	0.0	0.0
135.00		74.7	149.7					0.0	18.0	74.7	167.7	0.0	0.0
136.00	Appertunance(s)	75.3	37.4	393.5	0.0	1,180.6	66.1	0.0	4.5	468.9	108.1	0.0	0.0
140.00		90.7	149.7					0.0	0.0	90.7	149.7	0.0	0.0
142.00		30.3	74.9					0.0	0.0	30.3	74.9	0.0	0.0
<b>Totals:</b>										40,302.4	37,592.9	0.00	0.00

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:32 AM

Customer: T-MOBILE

**Load Case:** 0.9D + 1.6W

110 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	-37.51	-40.03	0.00	-3,613.52	0.00	3,613.52	4,350.13	2,175.06	7,987.32	3,944.64	0.00	0.00	0.654
5.00	-35.86	-39.48	0.00	-3,413.38	0.00	3,413.38	4,285.51	2,142.75	7,679.11	3,792.42	0.12	-0.22	0.637
10.00	-34.23	-38.93	0.00	-3,215.99	0.00	3,215.99	4,218.97	2,109.49	7,373.27	3,641.38	0.47	-0.44	0.619
15.00	-32.63	-38.39	0.00	-3,021.32	0.00	3,021.32	4,150.52	2,075.26	7,070.06	3,491.64	1.06	-0.67	0.600
20.00	-31.06	-37.80	0.00	-2,829.36	0.00	2,829.36	4,080.16	2,040.08	6,769.73	3,343.32	1.88	-0.89	0.580
25.00	-29.52	-36.99	0.00	-2,640.38	0.00	2,640.38	4,007.88	2,003.94	6,472.54	3,196.54	2.94	-1.12	0.560
30.00	-28.01	-36.18	0.00	-2,455.44	0.00	2,455.44	3,933.69	1,966.85	6,178.73	3,051.44	4.23	-1.34	0.539
35.00	-26.53	-35.36	0.00	-2,274.53	0.00	2,274.53	3,854.52	1,927.26	5,883.88	2,905.83	5.75	-1.56	0.518
40.00	-25.14	-34.82	0.00	-2,097.75	0.00	2,097.75	3,744.12	1,872.06	5,549.75	2,740.81	7.51	-1.78	0.499
40.24	-25.02	-34.48	0.00	-2,089.26	0.00	2,089.26	3,738.74	1,869.37	5,533.72	2,732.90	7.60	-1.80	0.498
45.00	-23.08	-33.90	0.00	-1,925.29	0.00	1,925.29	3,633.72	1,816.86	5,225.39	2,580.62	9.50	-2.00	0.474
45.40	-22.87	-33.55	0.00	-1,911.73	0.00	1,911.73	3,063.79	1,531.89	4,506.32	2,225.50	9.67	-2.02	0.527
50.00	-21.68	-32.69	0.00	-1,757.41	0.00	1,757.41	3,008.67	1,504.34	4,302.82	2,125.00	11.71	-2.22	0.500
55.00	-20.45	-32.08	0.00	-1,593.95	0.00	1,593.95	2,946.93	1,473.46	4,084.17	2,017.02	14.16	-2.44	0.470
55.68	-20.25	-31.71	0.00	-1,572.23	0.00	1,572.23	2,938.42	1,469.21	4,054.78	2,002.51	14.51	-2.47	0.466
55.68	-20.25	-31.71	0.00	-1,572.23	0.00	1,572.23	2,938.42	1,469.21	4,054.78	2,002.51	14.51	-2.47	0.792
60.00	-19.39	-30.91	0.00	-1,435.15	0.00	1,435.15	2,883.27	1,441.64	3,868.42	1,910.47	16.83	-2.66	0.758
65.00	-18.40	-30.14	0.00	-1,280.60	0.00	1,280.60	2,808.41	1,404.21	3,643.77	1,799.52	19.81	-3.02	0.719
70.00	-17.41	-29.55	0.00	-1,129.92	0.00	1,129.92	2,713.79	1,356.89	3,400.96	1,679.60	23.16	-3.37	0.680
75.00	-16.47	-28.99	0.00	-982.19	0.00	982.19	2,619.16	1,309.58	3,166.52	1,563.83	26.88	-3.72	0.635
80.00	-15.52	-28.15	0.00	-836.91	0.00	836.91	2,524.53	1,262.26	2,940.46	1,452.18	30.95	-4.05	0.583
80.75	-15.35	-27.82	0.00	-815.84	0.00	815.84	2,510.36	1,255.18	2,907.34	1,435.82	31.58	-4.10	0.575
84.90	-14.40	-27.37	0.00	-700.37	0.00	700.37	1,500.18	750.09	1,728.96	853.87	35.26	-4.35	0.831
85.00	-14.31	-27.06	0.00	-697.62	0.00	697.62	1,499.54	749.77	1,726.89	852.85	35.35	-4.36	0.829
90.00	-11.36	-21.79	0.00	-562.34	0.00	562.34	1,466.64	733.32	1,624.12	802.09	40.14	-4.76	0.710
95.00	-10.77	-21.25	0.00	-453.37	0.00	453.37	1,431.82	715.91	1,522.23	751.77	45.32	-5.12	0.611
100.00	-8.42	-16.37	0.00	-347.05	0.00	347.05	1,395.09	697.54	1,421.47	702.01	50.86	-5.45	0.501
105.00	-7.96	-15.83	0.00	-265.18	0.00	265.18	1,356.44	678.22	1,322.10	652.93	56.71	-5.73	0.413
110.00	-5.99	-11.78	0.00	-186.01	0.00	186.01	1,315.88	657.94	1,224.36	604.67	62.83	-5.96	0.312
115.00	-5.65	-11.26	0.00	-127.11	0.00	127.11	1,273.40	636.70	1,128.51	557.33	69.17	-6.15	0.233
120.00	-2.99	-5.85	0.00	-70.82	0.00	70.82	1,215.41	607.71	1,023.36	505.40	75.68	-6.29	0.143
125.00	-2.71	-5.55	0.00	-41.56	0.00	41.56	1,152.33	576.16	919.28	454.00	82.30	-6.38	0.094
125.80	-2.67	-5.45	0.00	-37.12	0.00	37.12	1,142.23	571.11	903.13	446.02	83.37	-6.39	0.086
125.80	-2.67	-5.45	0.00	-37.12	0.00	37.12	385.02	192.51	160.54	106.00	83.37	-6.39	0.358
130.00	-2.47	-5.35	0.00	-14.25	0.00	14.25	385.02	192.51	160.54	106.00	89.00	-6.43	0.142
131.00	-0.42	-0.72	0.00	-5.33	0.00	5.33	385.02	192.51	160.54	106.00	90.34	-6.45	0.051
135.00	-0.26	-0.62	0.00	-2.46	0.00	2.46	385.02	192.51	160.54	106.00	95.75	-6.48	0.024
136.00	-0.21	-0.15	0.00	-0.66	0.00	0.66	385.02	192.51	160.54	106.00	97.10	-6.48	0.007
140.00	-0.07	-0.04	0.00	-0.08	0.00	0.08	385.02	192.51	160.54	106.00	102.52	-6.48	0.001
142.00	0.00	-0.03	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	105.23	-6.48	0.000

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:33 AM

Customer: T-MOBILE

<b>Load Case:</b> 1.2D + 1.0Di + 1.0Wi	50 mph with 0.75 in Radial Ice	23 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		

**Shaft Segment Forces (Factored)**

Seg Top Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Ap (sf)	EPAs (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	4.256	4.682	0.000	1.200	0.000	0.00	0.000	0.00	56.6	0.0	0.0
5.00		1.00	0.70	4.256	4.682	0.000	1.200	* 1.159	5.00	20.148	24.18	112.2	338.5	1,604.9
10.00		1.00	0.70	4.256	4.682	0.000	1.200	* 1.293	5.00	19.801	23.76	110.1	369.9	1,605.8
15.00		1.00	0.70	4.256	4.682	0.000	1.200	* 1.361	5.00	19.399	23.28	107.8	380.5	1,585.8
20.00		1.00	0.70	4.256	4.682	0.000	1.200	* 1.408	5.00	18.979	22.78	105.4	384.2	1,558.9
25.00		1.00	0.70	4.256	4.682	0.000	1.200	* 1.444	5.00	18.551	22.26	103.0	384.4	1,528.5
30.00		1.00	0.70	4.256	4.682	0.000	1.200	* 1.473	5.00	18.116	21.74	101.7	382.3	1,495.8
35.00		1.00	0.71	4.358	4.794	0.000	1.200	* 1.498	5.00	17.678	21.21	102.5	378.7	1,461.6
40.00		1.00	0.74	4.540	4.994	0.000	1.200	* 1.519	5.00	17.238	20.69	54.2	373.9	1,426.2
40.24	Bot - Section 2	1.00	0.76	4.629	5.091	0.000	1.200	* 1.530	0.24	0.829	0.99	53.1	18.3	68.8
45.00		1.00	0.77	4.709	5.180	0.000	1.200	* 1.539	4.76	16.274	19.53	54.8	357.4	2,180.3
45.40	Top - Section 1	1.00	0.78	4.789	5.268	0.000	1.200	* 1.548	0.40	1.350	1.62	53.5	30.2	181.1
50.00		1.00	0.80	4.863	5.349	0.000	1.200	* 1.556	4.60	15.324	18.39	102.7	339.9	1,139.0
55.00		1.00	0.82	4.998	5.498	0.000	1.200	* 1.571	5.00	16.229	19.47	60.8	362.3	1,205.7
55.68	Reinf. Top	1.00	0.83	5.074	5.581	0.000	1.200	* 1.580	0.68	2.163	2.60	53.4	49.1	161.3
60.00		1.00	0.84	5.138	5.652	0.000	1.200	* 1.587	4.32	13.619	16.34	99.4	307.0	1,012.0
65.00		1.00	0.86	5.253	5.779	0.000	1.200	* 1.599	5.00	15.335	18.40	105.9	346.9	1,137.9
70.00	Appertunance(s)	1.00	0.88	5.370	5.907	0.000	1.200	* 1.611	5.00	14.886	17.86	105.0	338.6	1,103.4
75.00		1.00	0.90	5.481	6.029	0.000	1.200	* 1.623	5.00	14.437	17.32	103.8	330.0	1,068.6
80.00	Appertunance(s)	1.00	0.91	5.586	6.145	0.000	1.200	* 1.634	5.00	13.988	16.79	59.2	321.0	1,033.4
80.75	Bot - Section 3	1.00	0.92	5.645	6.209	0.000	1.200	* 1.640	0.75	2.055	2.47	50.5	48.0	152.4
84.90	Top - Section 2	1.00	0.93	5.693	6.263	0.000	1.200	* 1.645	4.15	11.394	13.67	43.8	263.6	1,219.2
85.00		1.00	0.94	5.735	6.308	0.000	1.200	* 1.649	0.10	0.272	0.33	51.8	6.4	15.6
90.00	Appertunance(s)	1.00	0.95	5.784	6.362	0.000	1.200	* 1.654	5.00	13.303	15.96	100.6	307.7	758.0
95.00		1.00	0.96	5.876	6.464	0.000	1.200	* 1.663	5.00	12.852	15.42	98.7	298.1	730.8
100.0	Appertunance(s)	1.00	0.98	5.965	6.562	0.000	1.200	* 1.672	5.00	12.400	14.88	96.5	288.2	703.5
105.0		1.00	0.99	6.051	6.656	0.000	1.200	* 1.680	5.00	11.949	14.34	94.3	278.2	676.0
110.0	Appertunance(s)	1.00	1.00	6.134	6.747	0.000	1.200	* 1.688	5.00	11.497	13.80	91.8	268.0	648.3
115.0		1.00	1.02	6.214	6.835	0.000	1.200	* 1.696	5.00	11.045	13.25	89.3	257.6	620.4
120.0	Appertunance(s)	1.00	1.03	6.292	6.921	0.000	1.200	* 1.703	5.00	10.592	12.71	86.6	247.0	592.4
125.0		1.00	1.04	6.367	7.004	0.000	1.200	* 1.710	5.00	10.140	12.17	49.3	236.4	564.3
125.8	Top - Section 3	1.00	1.05	6.410	7.051	0.000	1.200	* 1.714	0.80	1.581	1.90	27.8	37.6	88.5
130.0		1.00	1.06	6.446	7.091	0.000	1.200	* 1.718	4.20	4.964	5.96	26.2	109.8	319.4
131.0	Appertunance(s)	1.00	1.06	6.483	7.132	0.000	1.200	* 1.721	1.00	1.183	1.42	25.4	26.2	76.1
135.0		1.00	1.07	6.519	7.170	0.000	1.200	* 1.724	4.00	4.733	5.68	25.5	105.1	304.7
136.0	Appertunance(s)	1.00	1.07	6.553	7.209	0.000	1.200	* 1.728	1.00	1.184	1.42	25.7	26.3	76.2
140.0		1.00	1.08	6.588	7.246	0.000	1.200	* 1.731	4.00	4.737	5.68	31.0	105.5	305.1
142.0		1.00	1.09	6.628	7.291	0.000	1.200	* 1.734	2.00	2.370	2.84	10.4	52.9	152.7
* = Cf Adjusted By Linear Load Ra Effect								Totals:	142.00			2,730.4	8,755.8	30,562.8

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:33 AM

Customer: T-MOBILE

**Load Case:** 1.2D + 1.0Di + 1.0Wi

50 mph with 0.75 in Radial Ice

23 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

**Discrete Appurtenance Segment Forces (Factored)**

Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orientation Factor	Ka	Total EPAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
70.00	PCTEL GPS-TMG-HR-	1	5.426	5.969	1.00	1.00	0.26	0.000	0.000	1.53	0.00	0.00	10.05
70.00	Stand-Off	1	5.426	5.969	0.67	1.00	0.99	0.000	0.000	5.93	0.00	0.00	29.53
80.00	Diamond X50A	2	5.697	6.267	1.00	1.00	4.85	0.000	3.000	30.42	0.00	91.27	114.82
80.00	6' Omni	2	5.637	6.201	1.00	1.00	5.97	0.000	0.000	37.03	0.00	0.00	209.63
80.00	Stand-Offs	2	5.637	6.201	0.67	1.00	5.99	0.000	0.000	37.15	0.00	0.00	265.74
90.00	RFS ATMAA1412D-	4	5.830	6.413	0.33	0.75	1.39	0.000	0.000	8.93	0.00	0.00	193.13
90.00	Ericsson RRUS 11 B12	3	5.830	6.413	0.50	0.75	3.86	0.000	0.000	24.75	0.00	0.00	425.19
90.00	Ericsson AIR 21, 1,3	4	5.830	6.413	0.71	0.75	15.10	0.000	0.000	96.81	0.00	0.00	1,032.57
90.00	Ericsson AIR 21, 1,3	3	5.830	6.413	0.70	0.75	11.23	0.000	0.000	72.04	0.00	0.00	768.90
90.00	Andrew LNX-6515DS-	3	5.830	6.413	0.70	0.75	20.48	0.000	0.000	131.37	0.00	0.00	926.30
90.00	Flat Platform w/ Han	1	5.830	6.413	1.00	1.00	62.31	0.000	0.000	399.63	0.00	0.00	3,299.36
100.0	RFS FD9R6004/1C-3L	6	6.008	6.609	0.33	0.75	0.84	0.000	0.000	5.58	0.00	0.00	96.05
100.0	GPS	1	6.076	6.684	0.50	0.75	0.35	0.000	4.000	2.31	0.00	9.23	48.34
100.0	Alcatel-Lucent RRH2x	3	6.008	6.609	0.50	0.75	3.12	0.000	0.000	20.63	0.00	0.00	367.37
100.0	Rymssa MGD3-800TX	3	6.008	6.609	0.69	0.75	6.57	0.000	0.000	43.45	0.00	0.00	302.46
100.0	Antel BXA-171063/12C	3	6.008	6.609	0.72	0.75	9.65	0.000	0.000	63.79	0.00	0.00	395.38
100.0	RFS DB-T1-6Z-8AB-0Z	1	6.008	6.609	1.00	0.75	4.23	0.000	0.000	27.93	0.00	0.00	183.87
100.0	Antel BXA-70080/6CF_	3	6.008	6.609	0.72	0.75	11.39	0.000	0.000	75.27	0.00	0.00	494.96
100.0	Powerwave Allgon	3	6.008	6.609	0.65	0.75	13.70	0.000	0.000	90.58	0.00	0.00	636.50
100.0	Flat Platform w/ Han	1	6.008	6.609	1.00	1.00	58.40	0.000	0.000	385.98	0.00	0.00	3,314.04
110.0	Swedcom ALP 9011-	12	6.174	6.792	0.74	0.75	22.93	0.000	0.000	155.75	0.00	0.00	1,299.77
110.0	Flat Platform w/ Han	1	6.174	6.792	1.00	1.00	62.73	0.000	0.000	426.02	0.00	0.00	3,327.42
120.0	DragonWave Horizon	2	6.330	6.963	0.33	0.75	0.32	0.000	0.000	2.25	0.00	0.00	83.94
120.0	NextNet BTS-2500	3	6.330	6.963	0.50	0.75	2.68	0.000	0.000	18.66	0.00	0.00	294.15
120.0	Alcatel-Lucent 800 M	3	6.330	6.963	0.50	0.75	2.97	0.000	0.000	20.68	0.00	0.00	494.80
120.0	Alcatel-Lucent 1900	3	6.330	6.963	0.50	0.75	3.35	0.000	0.000	23.31	0.00	0.00	493.12
120.0	Alcatel-Lucent TD-RR	3	6.330	6.963	0.50	0.75	6.38	0.000	0.000	44.45	0.00	0.00	441.50
120.0	Argus LLPX310R	3	6.330	6.963	0.63	0.75	7.32	0.000	0.000	50.99	0.00	0.00	416.86
120.0	DragonWave A-ANT-	2	6.330	6.963	0.90	0.75	8.01	0.000	0.000	55.80	0.00	0.00	199.90
120.0	RFS RFS APXV9TM14-	3	6.330	6.963	0.66	0.75	11.02	0.000	0.000	76.74	0.00	0.00	665.55
120.0	RFS APXVSPP18-C-	3	6.330	6.963	0.69	0.75	14.41	0.000	0.000	100.33	0.00	0.00	787.08
120.0	Flat Platform w/ Han	1	6.330	6.963	1.00	1.00	58.61	0.000	0.000	408.05	0.00	0.00	3,339.73
131.0	Powerwave Allgon	6	6.560	7.216	0.50	0.75	0.96	0.000	5.000	6.90	0.00	34.49	113.62
131.0	Powerwave Allgon	6	6.490	7.139	0.50	0.75	3.50	0.000	0.000	25.00	0.00	0.00	299.55
131.0	Raycap DC6-48-60-18-	1	6.490	7.139	1.00	0.75	2.13	0.000	0.000	15.22	0.00	0.00	129.54
131.0	Ericsson RRUS 11 (Ba	6	6.490	7.139	0.50	0.75	7.21	0.000	0.000	51.48	0.00	0.00	796.69
131.0	Powerwave Allgon 777	6	6.490	7.139	0.65	0.75	19.14	0.000	0.000	136.66	0.00	0.00	1,048.79
131.0	Powerwave Allgon	3	6.560	7.216	0.67	0.75	14.19	0.000	5.000	102.37	0.00	511.83	756.25
131.0	Flat Platform w/ Han	1	6.490	7.139	1.00	1.00	58.81	0.000	0.000	419.85	0.00	0.00	3,354.39
136.0	Generic RCU (Remote	6	6.601	7.261	0.33	0.80	0.57	0.000	3.000	4.13	0.00	12.40	67.26
136.0	Kathrein Scala 742-2	3	6.601	7.261	0.73	0.80	8.34	0.000	3.000	60.58	0.00	181.75	345.03
										3,766.33			31,869.11

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:33 AM

Customer: T-MOBILE

**Load Case:** 1.2D + 1.0Di + 1.0Wi

50 mph with 0.75 in Radial Ice

23 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

**Linear Appurtenance Segment Forces (Factored)**

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	qz (psf)	Ra	Cf Adjust Factor	FX (lb)	Dead Load (lb)
5.00	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	1.79	0.00	4.256	0.183	1.250	0.00	101.08
5.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	1.79	0.00	0.000	0.000	0.000	0.00	400.80
5.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	4.256	0.183	1.250	0.00	0.48
5.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	4.256	0.183	1.250	0.00	0.17
5.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	4.256	0.183	1.250	0.00	3.72
5.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.183	1.250	0.00	45.35
5.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	4.256	0.183	1.250	0.00	24.00
5.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.183	1.250	0.00	1.80
5.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	4.256	0.183	1.250	0.00	21.90
5.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.183	1.250	0.00	1.62
5.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.183	1.250	0.00	59.03
5.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.183	1.250	0.00	59.03
5.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	4.256	0.183	1.250	0.00	7.80
5.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.183	1.250	0.00	0.90
5.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	4.256	0.183	1.250	0.00	6.30
5.00	(14) 1 5/8" Coax	Yes	5.00	0.00	3.96	2.62	0.00	4.256	0.183	1.250	0.00	224.90
5.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.183	1.250	0.00	1.80
5.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.183	1.250	0.00	1.80
5.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.183	1.250	0.00	1.80
5.00	(4) DYWIDAG	Yes	5.00	0.00	2.50	2.01	0.00	4.256	0.183	1.250	0.00	107.02
10.00	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	1.90	0.00	4.256	0.188	1.263	0.00	109.31
10.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	1.90	0.00	0.000	0.000	0.000	0.00	400.80
10.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	4.256	0.188	1.263	0.00	0.48
10.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	4.256	0.188	1.263	0.00	0.17
10.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	4.256	0.188	1.263	0.00	3.72
10.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.188	1.263	0.00	45.35
10.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	4.256	0.188	1.263	0.00	24.00
10.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.188	1.263	0.00	1.80
10.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	4.256	0.188	1.263	0.00	21.90
10.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.188	1.263	0.00	1.62
10.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.188	1.263	0.00	59.03
10.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.188	1.263	0.00	59.03
10.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	4.256	0.188	1.263	0.00	7.80
10.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.188	1.263	0.00	0.90
10.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	4.256	0.188	1.263	0.00	6.30
10.00	(14) 1 5/8" Coax	Yes	5.00	0.00	3.96	2.73	0.00	4.256	0.188	1.263	0.00	241.43
10.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.188	1.263	0.00	1.80
10.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.188	1.263	0.00	1.80
10.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.188	1.263	0.00	1.80
10.00	(4) DYWIDAG	Yes	5.00	0.00	2.50	2.12	0.00	4.256	0.188	1.263	0.00	117.41
15.00	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	1.96	0.00	4.256	0.193	1.278	0.00	113.54
15.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	1.96	0.00	0.000	0.000	0.000	0.00	400.80
15.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	4.256	0.193	1.278	0.00	0.48
15.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	4.256	0.193	1.278	0.00	0.17
15.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	4.256	0.193	1.278	0.00	3.72
15.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.193	1.278	0.00	45.35
15.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	4.256	0.193	1.278	0.00	24.00
15.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.193	1.278	0.00	1.80
15.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	4.256	0.193	1.278	0.00	21.90
15.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.193	1.278	0.00	1.62
15.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.193	1.278	0.00	59.03

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:33 AM

Customer: T-MOBILE

**Load Case:** 1.2D + 1.0Di + 1.0Wi

50 mph with 0.75 in Radial Ice

23 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

15.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.193	1.278	0.00	59.03
15.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	4.256	0.193	1.278	0.00	7.80
15.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.193	1.278	0.00	0.90
15.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	4.256	0.193	1.278	0.00	6.30
15.00	(14) 1 5/8" Coax	Yes	5.00	0.00	3.96	2.78	0.00	4.256	0.193	1.278	0.00	249.83
15.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.193	1.278	0.00	1.80
15.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.193	1.278	0.00	1.80
15.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.193	1.278	0.00	1.80
15.00	(4) DYWIDAG	Yes	5.00	0.00	2.50	2.18	0.00	4.256	0.193	1.278	0.00	122.72
20.00	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	2.00	0.00	4.256	0.197	1.292	0.00	116.48
20.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	2.00	0.00	0.000	0.000	0.000	0.00	400.80
20.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	4.256	0.197	1.292	0.00	0.48
20.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	4.256	0.197	1.292	0.00	0.17
20.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	4.256	0.197	1.292	0.00	3.72
20.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.197	1.292	0.00	45.35
20.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	4.256	0.197	1.292	0.00	24.00
20.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.197	1.292	0.00	1.80
20.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	4.256	0.197	1.292	0.00	21.90
20.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.197	1.292	0.00	1.62
20.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.197	1.292	0.00	59.03
20.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.197	1.292	0.00	59.03
20.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	4.256	0.197	1.292	0.00	7.80
20.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.197	1.292	0.00	0.90
20.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	4.256	0.197	1.292	0.00	6.30
20.00	(14) 1 5/8" Coax	Yes	5.00	0.00	3.96	2.82	0.00	4.256	0.197	1.292	0.00	255.64
20.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.197	1.292	0.00	1.80
20.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.197	1.292	0.00	1.80
20.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.197	1.292	0.00	1.80
20.00	(4) DYWIDAG	Yes	5.00	0.00	2.50	2.21	0.00	4.256	0.197	1.292	0.00	126.41
25.00	(6) 1 5/8" Coax	Yes	5.00	1.20	1.98	2.03	2.43	4.256	0.203	0.000	11.39	118.76
25.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	2.03	0.00	0.000	0.000	0.000	0.00	400.80
25.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	4.256	0.203	0.000	0.00	0.48
25.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	4.256	0.203	0.000	0.00	0.17
25.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	4.256	0.203	0.000	0.00	3.72
25.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.203	0.000	0.00	45.35
25.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	4.256	0.203	0.000	0.00	24.00
25.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.203	0.000	0.00	1.80
25.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	4.256	0.203	0.000	0.00	21.90
25.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.203	0.000	0.00	1.62
25.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.203	0.000	0.00	59.03
25.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.203	0.000	0.00	59.03
25.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	4.256	0.203	0.000	0.00	7.80
25.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.203	0.000	0.00	0.90
25.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	4.256	0.203	0.000	0.00	6.30
25.00	(14) 1 5/8" Coax	Yes	5.00	1.20	3.96	2.85	3.42	4.256	0.203	0.000	16.03	260.13
25.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.203	0.000	0.00	1.80
25.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.203	0.000	0.00	1.80
25.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.203	0.000	0.00	1.80
25.00	(4) DYWIDAG	Yes	5.00	1.20	2.50	2.24	2.69	4.256	0.203	0.000	12.61	129.26
30.00	(6) 1 5/8" Coax	Yes	5.00	1.20	1.98	2.05	2.46	4.256	0.208	0.000	11.53	120.63
30.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	2.05	0.00	0.000	0.000	0.000	0.00	400.80
30.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	4.256	0.208	0.000	0.00	0.48
30.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	4.256	0.208	0.000	0.00	0.17
30.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	4.256	0.208	0.000	0.00	3.72
30.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.208	0.000	0.00	45.35
30.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	4.256	0.208	0.000	0.00	24.00
30.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.208	0.000	0.00	1.80



Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:33 AM

Customer: T-MOBILE

<b>Load Case: 1.2D + 1.0Di + 1.0Wi</b>		<b>50 mph with 0.75 in Radial Ice</b>						<b>23 Iterations</b>			
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											

30.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	4.256	0.208	0.000	0.00	21.90
30.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.208	0.000	0.00	1.62
30.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.208	0.000	0.00	59.03
30.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.208	0.000	0.00	59.03
30.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	4.256	0.208	0.000	0.00	7.80
30.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.208	0.000	0.00	0.90
30.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	4.256	0.208	0.000	0.00	6.30
30.00	(14) 1 5/8" Coax	Yes	5.00	1.20	3.96	2.88	3.45	4.256	0.208	0.000	16.17	263.81
30.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.208	0.000	0.00	1.80
30.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.208	0.000	0.00	1.80
30.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.256	0.208	0.000	0.00	1.80
30.00	(4) DYWIDAG	Yes	5.00	1.20	2.50	2.27	2.72	4.256	0.208	0.000	12.75	131.61
35.00	(6) 1 5/8" Coax	Yes	5.00	1.20	1.98	2.07	2.49	4.358	0.214	0.000	11.93	122.23
35.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	2.07	0.00	0.000	0.000	0.000	0.00	400.80
35.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	4.358	0.214	0.000	0.00	0.48
35.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	4.358	0.214	0.000	0.00	0.17
35.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	4.358	0.214	0.000	0.00	3.72
35.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	4.358	0.214	0.000	0.00	45.35
35.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	4.358	0.214	0.000	0.00	24.00
35.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.358	0.214	0.000	0.00	1.80
35.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	4.358	0.214	0.000	0.00	21.90
35.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	4.358	0.214	0.000	0.00	1.62
35.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	4.358	0.214	0.000	0.00	59.03
35.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	4.358	0.214	0.000	0.00	59.03
35.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	4.358	0.214	0.000	0.00	7.80
35.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.358	0.214	0.000	0.00	0.90
35.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	4.358	0.214	0.000	0.00	6.30
35.00	(14) 1 5/8" Coax	Yes	5.00	1.20	3.96	2.90	3.48	4.358	0.214	0.000	16.67	266.93
35.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.358	0.214	0.000	0.00	1.80
35.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.358	0.214	0.000	0.00	1.80
35.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.358	0.214	0.000	0.00	1.80
35.00	(4) DYWIDAG	Yes	5.00	1.20	2.50	2.29	2.75	4.358	0.214	0.000	13.17	133.60
40.00	(6) 1 5/8" Coax	Yes	5.00	1.20	1.98	2.09	2.51	4.540	0.220	0.000	12.53	123.62
40.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	2.09	0.00	0.000	0.000	0.000	0.00	400.80
40.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	4.540	0.220	0.000	0.00	0.48
40.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	4.540	0.220	0.000	0.00	0.17
40.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	4.540	0.220	0.000	0.00	3.72
40.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	4.540	0.220	0.000	0.00	45.35
40.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	4.540	0.220	0.000	0.00	24.00
40.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.540	0.220	0.000	0.00	1.80
40.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	4.540	0.220	0.000	0.00	21.90
40.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	4.540	0.220	0.000	0.00	1.62
40.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	4.540	0.220	0.000	0.00	59.03
40.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	4.540	0.220	0.000	0.00	59.03
40.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	4.540	0.220	0.000	0.00	7.80
40.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.540	0.220	0.000	0.00	0.90
40.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	4.540	0.220	0.000	0.00	6.30
40.00	(14) 1 5/8" Coax	Yes	5.00	1.20	3.96	2.92	3.50	4.540	0.220	0.000	17.48	269.66
40.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.540	0.220	0.000	0.00	1.80
40.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.540	0.220	0.000	0.00	1.80
40.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.540	0.220	0.000	0.00	1.80
40.00	(4) DYWIDAG	Yes	5.00	1.20	2.50	2.31	2.77	4.540	0.220	0.000	13.83	135.34
40.24	(6) 1 5/8" Coax	Yes	0.24	1.20	1.98	0.10	0.12	4.629	0.224	0.000	0.63	6.06
40.24	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.10	0.00	0.000	0.000	0.000	0.00	19.53
40.24	(1) 3/8" Coax	No	0.24	0.00	0.44	0.00	0.00	4.629	0.224	0.000	0.00	0.02
40.24	(1) 0.28" RG-6	No	0.24	0.00	0.00	0.00	0.00	4.629	0.224	0.000	0.00	0.01
40.24	(2) 0.65" 8 AWG 2C	No	0.24	0.00	0.00	0.00	0.00	4.629	0.224	0.000	0.00	0.18

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:34 AM

Customer: T-MOBILE

<b>Load Case: 1.2D + 1.0Di + 1.0Wi</b>		<b>50 mph with 0.75 in Radial Ice</b>					<b>23 Iterations</b>				
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											

40.24	(12) 1 1/4" Coax	No	0.24	0.00	0.00	0.00	0.00	4.629	0.224	0.000	0.00	2.21
40.24	(4) 1 1/4" Hybriflex	No	0.24	0.00	0.00	0.00	0.00	4.629	0.224	0.000	0.00	1.17
40.24	(2) 1/2" Coax	No	0.24	0.00	0.00	0.00	0.00	4.629	0.224	0.000	0.00	0.09
40.24	(1) 2" Conduit	No	0.24	0.00	0.00	0.00	0.00	4.629	0.224	0.000	0.00	1.07
40.24	(6) 5/16" Coax	No	0.24	0.00	0.00	0.00	0.00	4.629	0.224	0.000	0.00	0.08
40.24	(12) 1 5/8" Coax	No	0.24	0.00	0.00	0.00	0.00	4.629	0.224	0.000	0.00	2.88
40.24	(12) 1 5/8" Coax	No	0.24	0.00	0.00	0.00	0.00	4.629	0.224	0.000	0.00	2.88
40.24	(1) 1 5/8" Hybriflex	No	0.24	0.00	0.00	0.00	0.00	4.629	0.224	0.000	0.00	0.38
40.24	(1) 1/2" Coax	No	0.24	0.00	0.00	0.00	0.00	4.629	0.224	0.000	0.00	0.04
40.24	(1) 1 1/4" Fiber	No	0.24	0.00	0.00	0.00	0.00	4.629	0.224	0.000	0.00	0.31
40.24	(14) 1 5/8" Coax	Yes	0.24	1.20	3.96	0.14	0.17	4.629	0.224	0.000	0.87	13.20
40.24	(2) 1/2" Coax	No	0.24	0.00	0.00	0.00	0.00	4.629	0.224	0.000	0.00	0.09
40.24	(2) 1/2" Coax	No	0.24	0.00	0.00	0.00	0.00	4.629	0.224	0.000	0.00	0.09
40.24	(2) 1/2" Coax	No	0.24	0.00	0.00	0.00	0.00	4.629	0.224	0.000	0.00	0.09
40.24	(4) DWIDAG	Yes	0.24	1.20	2.50	0.11	0.14	4.629	0.224	0.000	0.69	6.64
45.00	(6) 1 5/8" Coax	Yes	4.76	1.20	1.98	2.00	2.41	4.709	0.227	0.000	12.46	118.81
45.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	2.00	0.00	0.000	0.000	0.000	0.00	381.27
45.00	(1) 3/8" Coax	No	4.76	0.00	0.44	0.00	0.00	4.709	0.227	0.000	0.00	0.46
45.00	(1) 0.28" RG-6	No	4.76	0.00	0.00	0.00	0.00	4.709	0.227	0.000	0.00	0.16
45.00	(2) 0.65" 8 AWG 2C	No	4.76	0.00	0.00	0.00	0.00	4.709	0.227	0.000	0.00	3.54
45.00	(12) 1 1/4" Coax	No	4.76	0.00	0.00	0.00	0.00	4.709	0.227	0.000	0.00	43.14
45.00	(4) 1 1/4" Hybriflex	No	4.76	0.00	0.00	0.00	0.00	4.709	0.227	0.000	0.00	22.83
45.00	(2) 1/2" Coax	No	4.76	0.00	0.00	0.00	0.00	4.709	0.227	0.000	0.00	1.71
45.00	(1) 2" Conduit	No	4.76	0.00	0.00	0.00	0.00	4.709	0.227	0.000	0.00	20.83
45.00	(6) 5/16" Coax	No	4.76	0.00	0.00	0.00	0.00	4.709	0.227	0.000	0.00	1.54
45.00	(12) 1 5/8" Coax	No	4.76	0.00	0.00	0.00	0.00	4.709	0.227	0.000	0.00	56.16
45.00	(12) 1 5/8" Coax	No	4.76	0.00	0.00	0.00	0.00	4.709	0.227	0.000	0.00	56.16
45.00	(1) 1 5/8" Hybriflex	No	4.76	0.00	0.00	0.00	0.00	4.709	0.227	0.000	0.00	7.42
45.00	(1) 1/2" Coax	No	4.76	0.00	0.00	0.00	0.00	4.709	0.227	0.000	0.00	0.86
45.00	(1) 1 1/4" Fiber	No	4.76	0.00	0.00	0.00	0.00	4.709	0.227	0.000	0.00	5.99
45.00	(14) 1 5/8" Coax	Yes	4.76	1.20	3.96	2.79	3.35	4.709	0.227	0.000	17.34	258.87
45.00	(2) 1/2" Coax	No	4.76	0.00	0.00	0.00	0.00	4.709	0.227	0.000	0.00	1.71
45.00	(2) 1/2" Coax	No	4.76	0.00	0.00	0.00	0.00	4.709	0.227	0.000	0.00	1.71
45.00	(2) 1/2" Coax	No	4.76	0.00	0.00	0.00	0.00	4.709	0.227	0.000	0.00	1.71
45.00	(4) DWIDAG	Yes	4.76	1.20	2.50	2.21	2.65	4.709	0.227	0.000	13.74	130.25
45.40	(6) 1 5/8" Coax	Yes	0.40	1.20	1.98	0.17	0.20	4.789	0.230	0.000	1.07	10.04
45.40	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.17	0.00	0.000	0.000	0.000	0.00	32.06
45.40	(1) 3/8" Coax	No	0.40	0.00	0.44	0.00	0.00	4.789	0.230	0.000	0.00	0.04
45.40	(1) 0.28" RG-6	No	0.40	0.00	0.00	0.00	0.00	4.789	0.230	0.000	0.00	0.01
45.40	(2) 0.65" 8 AWG 2C	No	0.40	0.00	0.00	0.00	0.00	4.789	0.230	0.000	0.00	0.30
45.40	(12) 1 1/4" Coax	No	0.40	0.00	0.00	0.00	0.00	4.789	0.230	0.000	0.00	3.63
45.40	(4) 1 1/4" Hybriflex	No	0.40	0.00	0.00	0.00	0.00	4.789	0.230	0.000	0.00	1.92
45.40	(2) 1/2" Coax	No	0.40	0.00	0.00	0.00	0.00	4.789	0.230	0.000	0.00	0.14
45.40	(1) 2" Conduit	No	0.40	0.00	0.00	0.00	0.00	4.789	0.230	0.000	0.00	1.75
45.40	(6) 5/16" Coax	No	0.40	0.00	0.00	0.00	0.00	4.789	0.230	0.000	0.00	0.13
45.40	(12) 1 5/8" Coax	No	0.40	0.00	0.00	0.00	0.00	4.789	0.230	0.000	0.00	4.72
45.40	(12) 1 5/8" Coax	No	0.40	0.00	0.00	0.00	0.00	4.789	0.230	0.000	0.00	4.72
45.40	(1) 1 5/8" Hybriflex	No	0.40	0.00	0.00	0.00	0.00	4.789	0.230	0.000	0.00	0.62
45.40	(1) 1/2" Coax	No	0.40	0.00	0.00	0.00	0.00	4.789	0.230	0.000	0.00	0.07
45.40	(1) 1 1/4" Fiber	No	0.40	0.00	0.00	0.00	0.00	4.789	0.230	0.000	0.00	0.50
45.40	(14) 1 5/8" Coax	Yes	0.40	1.20	3.96	0.24	0.28	4.789	0.230	0.000	1.49	21.86
45.40	(2) 1/2" Coax	No	0.40	0.00	0.00	0.00	0.00	4.789	0.230	0.000	0.00	0.14
45.40	(2) 1/2" Coax	No	0.40	0.00	0.00	0.00	0.00	4.789	0.230	0.000	0.00	0.14
45.40	(2) 1/2" Coax	No	0.40	0.00	0.00	0.00	0.00	4.789	0.230	0.000	0.00	0.14
45.40	(4) DWIDAG	Yes	0.40	1.20	2.50	0.19	0.22	4.789	0.230	0.000	1.18	11.01
50.00	(6) 1 5/8" Coax	Yes	4.60	1.20	1.98	1.95	2.34	4.863	0.229	0.000	12.53	115.95
50.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	1.95	0.00	0.000	0.000	0.000	0.00	368.74

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:34 AM

Customer: T-MOBILE

<b>Load Case: 1.2D + 1.0Di + 1.0Wi</b>		<b>50 mph with 0.75 in Radial Ice</b>					<b>23 Iterations</b>				
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											

50.00	(1) 3/8" Coax	No	4.60	0.00	0.44	0.00	0.00	4.863	0.229	0.000	0.00	0.44
50.00	(1) 0.28" RG-6	No	4.60	0.00	0.00	0.00	0.00	4.863	0.229	0.000	0.00	0.16
50.00	(2) 0.65" 8 AWG 2C	No	4.60	0.00	0.00	0.00	0.00	4.863	0.229	0.000	0.00	3.42
50.00	(12) 1 1/4" Coax	No	4.60	0.00	0.00	0.00	0.00	4.863	0.229	0.000	0.00	41.73
50.00	(4) 1 1/4" Hybriflex	No	4.60	0.00	0.00	0.00	0.00	4.863	0.229	0.000	0.00	22.08
50.00	(2) 1/2" Coax	No	4.60	0.00	0.00	0.00	0.00	4.863	0.229	0.000	0.00	1.66
50.00	(1) 2" Conduit	No	4.60	0.00	0.00	0.00	0.00	4.863	0.229	0.000	0.00	20.15
50.00	(6) 5/16" Coax	No	4.60	0.00	0.00	0.00	0.00	4.863	0.229	0.000	0.00	1.49
50.00	(12) 1 5/8" Coax	No	4.60	0.00	0.00	0.00	0.00	4.863	0.229	0.000	0.00	54.31
50.00	(12) 1 5/8" Coax	No	4.60	0.00	0.00	0.00	0.00	4.863	0.229	0.000	0.00	54.31
50.00	(1) 1 5/8" Hybriflex	No	4.60	0.00	0.00	0.00	0.00	4.863	0.229	0.000	0.00	7.18
50.00	(1) 1/2" Coax	No	4.60	0.00	0.00	0.00	0.00	4.863	0.229	0.000	0.00	0.83
50.00	(1) 1 1/4" Fiber	No	4.60	0.00	0.00	0.00	0.00	4.863	0.229	0.000	0.00	5.80
50.00	(14) 1 5/8" Coax	Yes	4.60	1.20	3.96	2.71	3.25	4.863	0.229	0.000	17.40	252.40
50.00	(2) 1/2" Coax	No	4.60	0.00	0.00	0.00	0.00	4.863	0.229	0.000	0.00	1.66
50.00	(2) 1/2" Coax	No	4.60	0.00	0.00	0.00	0.00	4.863	0.229	0.000	0.00	1.66
50.00	(2) 1/2" Coax	No	4.60	0.00	0.00	0.00	0.00	4.863	0.229	0.000	0.00	1.66
50.00	(4) DYWIDAG	Yes	4.60	1.20	2.50	2.15	2.58	4.863	0.229	0.000	13.81	127.27
55.00	(6) 1 5/8" Coax	Yes	5.00	1.20	1.98	2.13	2.56	4.998	0.236	0.000	14.08	127.01
55.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	2.13	0.00	0.000	0.000	0.000	0.00	400.80
55.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	4.998	0.236	0.000	0.00	0.48
55.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	4.998	0.236	0.000	0.00	0.17
55.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	4.998	0.236	0.000	0.00	3.72
55.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	4.998	0.236	0.000	0.00	45.35
55.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	4.998	0.236	0.000	0.00	24.00
55.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.998	0.236	0.000	0.00	1.80
55.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	4.998	0.236	0.000	0.00	21.90
55.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	4.998	0.236	0.000	0.00	1.62
55.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	4.998	0.236	0.000	0.00	59.03
55.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	4.998	0.236	0.000	0.00	59.03
55.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	4.998	0.236	0.000	0.00	7.80
55.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.998	0.236	0.000	0.00	0.90
55.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	4.998	0.236	0.000	0.00	6.30
55.00	(14) 1 5/8" Coax	Yes	5.00	1.20	3.96	2.96	3.55	4.998	0.236	0.000	19.52	276.24
55.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.998	0.236	0.000	0.00	1.80
55.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.998	0.236	0.000	0.00	1.80
55.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	4.998	0.236	0.000	0.00	1.80
55.00	(4) DYWIDAG	Yes	5.00	1.20	2.50	2.35	2.82	4.998	0.236	0.000	15.51	139.56
55.68	(6) 1 5/8" Coax	Yes	0.68	1.20	1.98	0.29	0.35	5.074	0.240	0.000	1.94	17.27
55.68	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.29	0.00	0.000	0.000	0.000	0.00	54.27
55.68	(1) 3/8" Coax	No	0.68	0.00	0.44	0.00	0.00	5.074	0.240	0.000	0.00	0.06
55.68	(1) 0.28" RG-6	No	0.68	0.00	0.00	0.00	0.00	5.074	0.240	0.000	0.00	0.02
55.68	(2) 0.65" 8 AWG 2C	No	0.68	0.00	0.00	0.00	0.00	5.074	0.240	0.000	0.00	0.50
55.68	(12) 1 1/4" Coax	No	0.68	0.00	0.00	0.00	0.00	5.074	0.240	0.000	0.00	6.14
55.68	(4) 1 1/4" Hybriflex	No	0.68	0.00	0.00	0.00	0.00	5.074	0.240	0.000	0.00	3.25
55.68	(2) 1/2" Coax	No	0.68	0.00	0.00	0.00	0.00	5.074	0.240	0.000	0.00	0.24
55.68	(1) 2" Conduit	No	0.68	0.00	0.00	0.00	0.00	5.074	0.240	0.000	0.00	2.97
55.68	(6) 5/16" Coax	No	0.68	0.00	0.00	0.00	0.00	5.074	0.240	0.000	0.00	0.22
55.68	(12) 1 5/8" Coax	No	0.68	0.00	0.00	0.00	0.00	5.074	0.240	0.000	0.00	7.99
55.68	(12) 1 5/8" Coax	No	0.68	0.00	0.00	0.00	0.00	5.074	0.240	0.000	0.00	7.99
55.68	(1) 1 5/8" Hybriflex	No	0.68	0.00	0.00	0.00	0.00	5.074	0.240	0.000	0.00	1.06
55.68	(1) 1/2" Coax	No	0.68	0.00	0.00	0.00	0.00	5.074	0.240	0.000	0.00	0.12
55.68	(1) 1 1/4" Fiber	No	0.68	0.00	0.00	0.00	0.00	5.074	0.240	0.000	0.00	0.85
55.68	(14) 1 5/8" Coax	Yes	0.68	1.20	3.96	0.40	0.48	5.074	0.240	0.000	2.69	37.55
55.68	(2) 1/2" Coax	No	0.68	0.00	0.00	0.00	0.00	5.074	0.240	0.000	0.00	0.24
55.68	(2) 1/2" Coax	No	0.68	0.00	0.00	0.00	0.00	5.074	0.240	0.000	0.00	0.24
55.68	(2) 1/2" Coax	No	0.68	0.00	0.00	0.00	0.00	5.074	0.240	0.000	0.00	0.24

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:34 AM

Customer: T-MOBILE

**Load Case:** 1.2D + 1.0Di + 1.0Wi

50 mph with 0.75 in Radial Ice

23 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

55.68	(4) DYWIDAG	Yes	0.68	1.20	2.50	0.32	0.38	5.074	0.240	0.000	2.14	18.99
60.00	(6) 1 5/8" Coax	Yes	4.32	1.20	1.98	1.86	2.23	5.138	0.244	0.000	12.59	110.68
60.00	(1) 3/8" Coax	No	4.32	0.00	0.44	0.00	0.00	5.138	0.244	0.000	0.00	0.42
60.00	(1) 0.28" RG-6	No	4.32	0.00	0.00	0.00	0.00	5.138	0.244	0.000	0.00	0.15
60.00	(2) 0.65" 8 AWG 2C	No	4.32	0.00	0.00	0.00	0.00	5.138	0.244	0.000	0.00	3.22
60.00	(12) 1 1/4" Coax	No	4.32	0.00	0.00	0.00	0.00	5.138	0.244	0.000	0.00	39.21
60.00	(4) 1 1/4" Hybriflex	No	4.32	0.00	0.00	0.00	0.00	5.138	0.244	0.000	0.00	20.75
60.00	(2) 1/2" Coax	No	4.32	0.00	0.00	0.00	0.00	5.138	0.244	0.000	0.00	1.56
60.00	(1) 2" Conduit	No	4.32	0.00	0.00	0.00	0.00	5.138	0.244	0.000	0.00	18.93
60.00	(6) 5/16" Coax	No	4.32	0.00	0.00	0.00	0.00	5.138	0.244	0.000	0.00	1.40
60.00	(12) 1 5/8" Coax	No	4.32	0.00	0.00	0.00	0.00	5.138	0.244	0.000	0.00	51.04
60.00	(12) 1 5/8" Coax	No	4.32	0.00	0.00	0.00	0.00	5.138	0.244	0.000	0.00	51.04
60.00	(1) 1 5/8" Hybriflex	No	4.32	0.00	0.00	0.00	0.00	5.138	0.244	0.000	0.00	6.74
60.00	(1) 1/2" Coax	No	4.32	0.00	0.00	0.00	0.00	5.138	0.244	0.000	0.00	0.78
60.00	(1) 1 1/4" Fiber	No	4.32	0.00	0.00	0.00	0.00	5.138	0.244	0.000	0.00	5.45
60.00	(14) 1 5/8" Coax	Yes	4.32	1.20	3.96	2.57	3.08	5.138	0.244	0.000	17.43	240.52
60.00	(2) 1/2" Coax	No	4.32	0.00	0.00	0.00	0.00	5.138	0.244	0.000	0.00	1.56
60.00	(2) 1/2" Coax	No	4.32	0.00	0.00	0.00	0.00	5.138	0.244	0.000	0.00	1.56
60.00	(2) 1/2" Coax	No	4.32	0.00	0.00	0.00	0.00	5.138	0.244	0.000	0.00	1.56
60.00	(4) DYWIDAG	Yes	4.32	1.20	2.50	2.04	2.45	5.138	0.244	0.000	13.86	121.74
65.00	(6) 1 5/8" Coax	Yes	5.00	1.20	1.98	2.16	2.59	5.253	0.221	0.000	14.96	128.82
65.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	5.253	0.221	0.000	0.00	0.48
65.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	5.253	0.221	0.000	0.00	0.17
65.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	5.253	0.221	0.000	0.00	3.72
65.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	5.253	0.221	0.000	0.00	45.35
65.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	5.253	0.221	0.000	0.00	24.00
65.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	5.253	0.221	0.000	0.00	1.80
65.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	5.253	0.221	0.000	0.00	21.90
65.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	5.253	0.221	0.000	0.00	1.62
65.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	5.253	0.221	0.000	0.00	59.03
65.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	5.253	0.221	0.000	0.00	59.03
65.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	5.253	0.221	0.000	0.00	7.80
65.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	5.253	0.221	0.000	0.00	0.90
65.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	5.253	0.221	0.000	0.00	6.30
65.00	(14) 1 5/8" Coax	Yes	5.00	1.20	3.96	2.98	3.58	5.253	0.221	0.000	20.68	279.76
65.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	5.253	0.221	0.000	0.00	1.80
65.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	5.253	0.221	0.000	0.00	1.80
65.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	5.253	0.221	0.000	0.00	1.80
65.00	(4) DYWIDAG	Yes	3.00	1.20	2.50	1.42	1.71	5.253	0.221	0.000	9.88	85.09
70.00	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	2.17	0.00	5.370	0.183	1.248	0.00	129.63
70.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	5.370	0.183	1.248	0.00	0.48
70.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	5.370	0.183	1.248	0.00	0.17
70.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	5.370	0.183	1.248	0.00	3.72
70.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	5.370	0.183	1.248	0.00	45.35
70.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	5.370	0.183	1.248	0.00	24.00
70.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	5.370	0.183	1.248	0.00	1.80
70.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	5.370	0.183	1.248	0.00	21.90
70.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	5.370	0.183	1.248	0.00	1.62
70.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	5.370	0.183	1.248	0.00	59.03
70.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	5.370	0.183	1.248	0.00	59.03
70.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	5.370	0.183	1.248	0.00	7.80
70.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	5.370	0.183	1.248	0.00	0.90
70.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	5.370	0.183	1.248	0.00	6.30
70.00	(14) 1 5/8" Coax	Yes	5.00	0.00	3.96	2.99	0.00	5.370	0.183	1.248	0.00	281.33
70.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	5.370	0.183	1.248	0.00	1.80
70.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	5.370	0.183	1.248	0.00	1.80
70.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	5.370	0.183	1.248	0.00	1.80

<b>Load Case: 1.2D + 1.0Di + 1.0Wi</b>		<b>50 mph with 0.75 in Radial Ice</b>						<b>23 Iterations</b>			
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											

75.00	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	2.18	0.00	5.481	0.189	1.267	0.00	130.39
75.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	5.481	0.189	1.267	0.00	0.48
75.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	5.481	0.189	1.267	0.00	0.17
75.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	5.481	0.189	1.267	0.00	3.72
75.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	5.481	0.189	1.267	0.00	45.35
75.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	5.481	0.189	1.267	0.00	24.00
75.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	5.481	0.189	1.267	0.00	1.80
75.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	5.481	0.189	1.267	0.00	21.90
75.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	5.481	0.189	1.267	0.00	1.62
75.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	5.481	0.189	1.267	0.00	59.03
75.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	5.481	0.189	1.267	0.00	59.03
75.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	5.481	0.189	1.267	0.00	7.80
75.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	5.481	0.189	1.267	0.00	0.90
75.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	5.481	0.189	1.267	0.00	6.30
75.00	(14) 1 5/8" Coax	Yes	5.00	0.00	3.96	3.00	0.00	5.481	0.189	1.267	0.00	282.80
75.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	5.481	0.189	1.267	0.00	1.80
75.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	5.481	0.189	1.267	0.00	1.80
80.00	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	2.19	0.00	5.586	0.196	1.288	0.00	131.11
80.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	5.586	0.196	1.288	0.00	0.48
80.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	5.586	0.196	1.288	0.00	0.17
80.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	5.586	0.196	1.288	0.00	3.72
80.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	5.586	0.196	1.288	0.00	45.35
80.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	5.586	0.196	1.288	0.00	24.00
80.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	5.586	0.196	1.288	0.00	1.80
80.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	5.586	0.196	1.288	0.00	21.90
80.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	5.586	0.196	1.288	0.00	1.62
80.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	5.586	0.196	1.288	0.00	59.03
80.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	5.586	0.196	1.288	0.00	59.03
80.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	5.586	0.196	1.288	0.00	7.80
80.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	5.586	0.196	1.288	0.00	0.90
80.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	5.586	0.196	1.288	0.00	6.30
80.00	(14) 1 5/8" Coax	Yes	5.00	0.00	3.96	3.01	0.00	5.586	0.196	1.288	0.00	284.19
80.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	5.586	0.196	1.288	0.00	1.80
80.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	5.586	0.196	1.288	0.00	1.80
80.75	(6) 1 5/8" Coax	Yes	0.75	1.20	1.98	0.33	0.39	5.645	0.200	0.000	2.44	19.69
80.75	(1) 3/8" Coax	No	0.75	0.00	0.44	0.00	0.00	5.645	0.200	0.000	0.00	0.07
80.75	(1) 0.28" RG-6	No	0.75	0.00	0.00	0.00	0.00	5.645	0.200	0.000	0.00	0.03
80.75	(2) 0.65" 8 AWG 2C	No	0.75	0.00	0.00	0.00	0.00	5.645	0.200	0.000	0.00	0.56
80.75	(12) 1 1/4" Coax	No	0.75	0.00	0.00	0.00	0.00	5.645	0.200	0.000	0.00	6.79
80.75	(4) 1 1/4" Hybriflex	No	0.75	0.00	0.00	0.00	0.00	5.645	0.200	0.000	0.00	3.59
80.75	(2) 1/2" Coax	No	0.75	0.00	0.00	0.00	0.00	5.645	0.200	0.000	0.00	0.27
80.75	(1) 2" Conduit	No	0.75	0.00	0.00	0.00	0.00	5.645	0.200	0.000	0.00	3.28
80.75	(6) 5/16" Coax	No	0.75	0.00	0.00	0.00	0.00	5.645	0.200	0.000	0.00	0.24
80.75	(12) 1 5/8" Coax	No	0.75	0.00	0.00	0.00	0.00	5.645	0.200	0.000	0.00	8.84
80.75	(12) 1 5/8" Coax	No	0.75	0.00	0.00	0.00	0.00	5.645	0.200	0.000	0.00	8.84
80.75	(1) 1 5/8" Hybriflex	No	0.75	0.00	0.00	0.00	0.00	5.645	0.200	0.000	0.00	1.17
80.75	(1) 1/2" Coax	No	0.75	0.00	0.00	0.00	0.00	5.645	0.200	0.000	0.00	0.13
80.75	(1) 1 1/4" Fiber	No	0.75	0.00	0.00	0.00	0.00	5.645	0.200	0.000	0.00	0.94
80.75	(14) 1 5/8" Coax	Yes	0.75	1.20	3.96	0.45	0.54	5.645	0.200	0.000	3.36	42.66
84.90	(6) 1 5/8" Coax	Yes	4.15	1.20	1.98	1.82	2.19	5.693	0.204	0.000	13.70	109.45
84.90	(1) 3/8" Coax	No	4.15	0.00	0.44	0.00	0.00	5.693	0.204	0.000	0.00	0.40
84.90	(1) 0.28" RG-6	No	4.15	0.00	0.00	0.00	0.00	5.693	0.204	0.000	0.00	0.14
84.90	(2) 0.65" 8 AWG 2C	No	4.15	0.00	0.00	0.00	0.00	5.693	0.204	0.000	0.00	3.09
84.90	(12) 1 1/4" Coax	No	4.15	0.00	0.00	0.00	0.00	5.693	0.204	0.000	0.00	37.65
84.90	(4) 1 1/4" Hybriflex	No	4.15	0.00	0.00	0.00	0.00	5.693	0.204	0.000	0.00	19.93
84.90	(2) 1/2" Coax	No	4.15	0.00	0.00	0.00	0.00	5.693	0.204	0.000	0.00	1.49
84.90	(1) 2" Conduit	No	4.15	0.00	0.00	0.00	0.00	5.693	0.204	0.000	0.00	18.18

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:35 AM

Customer: T-MOBILE

**Load Case:** 1.2D + 1.0Di + 1.0Wi

50 mph with 0.75 in Radial Ice

23 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

84.90	(6) 5/16" Coax	No	4.15	0.00	0.00	0.00	0.00	5.693	0.204	0.000	0.00	1.34
84.90	(12) 1 5/8" Coax	No	4.15	0.00	0.00	0.00	0.00	5.693	0.204	0.000	0.00	49.01
84.90	(12) 1 5/8" Coax	No	4.15	0.00	0.00	0.00	0.00	5.693	0.204	0.000	0.00	49.01
84.90	(1) 1 5/8" Hybriflex	No	4.15	0.00	0.00	0.00	0.00	5.693	0.204	0.000	0.00	6.48
84.90	(1) 1/2" Coax	No	4.15	0.00	0.00	0.00	0.00	5.693	0.204	0.000	0.00	0.75
84.90	(1) 1 1/4" Fiber	No	4.15	0.00	0.00	0.00	0.00	5.693	0.204	0.000	0.00	5.23
84.90	(14) 1 5/8" Coax	Yes	4.15	1.20	3.96	2.51	3.01	5.693	0.204	0.000	18.85	237.09
85.00	(6) 1 5/8" Coax	Yes	0.10	1.20	1.98	0.04	0.05	5.735	0.204	0.000	0.33	2.65
85.00	(1) 3/8" Coax	No	0.10	0.00	0.44	0.00	0.00	5.735	0.204	0.000	0.00	0.01
85.00	(1) 0.28" RG-6	No	0.10	0.00	0.00	0.00	0.00	5.735	0.204	0.000	0.00	0.00
85.00	(2) 0.65" 8 AWG 2C	No	0.10	0.00	0.00	0.00	0.00	5.735	0.204	0.000	0.00	0.07
85.00	(12) 1 1/4" Coax	No	0.10	0.00	0.00	0.00	0.00	5.735	0.204	0.000	0.00	0.91
85.00	(4) 1 1/4" Hybriflex	No	0.10	0.00	0.00	0.00	0.00	5.735	0.204	0.000	0.00	0.48
85.00	(2) 1/2" Coax	No	0.10	0.00	0.00	0.00	0.00	5.735	0.204	0.000	0.00	0.04
85.00	(1) 2" Conduit	No	0.10	0.00	0.00	0.00	0.00	5.735	0.204	0.000	0.00	0.44
85.00	(6) 5/16" Coax	No	0.10	0.00	0.00	0.00	0.00	5.735	0.204	0.000	0.00	0.03
85.00	(12) 1 5/8" Coax	No	0.10	0.00	0.00	0.00	0.00	5.735	0.204	0.000	0.00	1.19
85.00	(12) 1 5/8" Coax	No	0.10	0.00	0.00	0.00	0.00	5.735	0.204	0.000	0.00	1.19
85.00	(1) 1 5/8" Hybriflex	No	0.10	0.00	0.00	0.00	0.00	5.735	0.204	0.000	0.00	0.16
85.00	(1) 1/2" Coax	No	0.10	0.00	0.00	0.00	0.00	5.735	0.204	0.000	0.00	0.02
85.00	(1) 1 1/4" Fiber	No	0.10	0.00	0.00	0.00	0.00	5.735	0.204	0.000	0.00	0.13
85.00	(14) 1 5/8" Coax	Yes	0.10	1.20	3.96	0.06	0.07	5.735	0.204	0.000	0.46	5.75
90.00	(6) 1 5/8" Coax	Yes	5.00	1.20	1.98	2.20	2.64	5.784	0.208	0.000	16.82	132.43
90.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	5.784	0.208	0.000	0.00	0.48
90.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	5.784	0.208	0.000	0.00	0.17
90.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	5.784	0.208	0.000	0.00	3.72
90.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	5.784	0.208	0.000	0.00	45.35
90.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	5.784	0.208	0.000	0.00	24.00
90.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	5.784	0.208	0.000	0.00	1.80
90.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	5.784	0.208	0.000	0.00	21.90
90.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	5.784	0.208	0.000	0.00	1.62
90.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	5.784	0.208	0.000	0.00	59.03
90.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	5.784	0.208	0.000	0.00	59.03
90.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	5.784	0.208	0.000	0.00	7.80
90.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	5.784	0.208	0.000	0.00	0.90
90.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	5.784	0.208	0.000	0.00	6.30
90.00	(14) 1 5/8" Coax	Yes	5.00	1.20	3.96	3.03	3.63	5.784	0.208	0.000	23.12	286.74
95.00	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	2.21	0.00	5.876	0.072	0.000	0.00	133.05
95.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	5.876	0.072	0.000	0.00	0.48
95.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	5.876	0.072	0.000	0.00	0.17
95.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	5.876	0.072	0.000	0.00	3.72
95.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	5.876	0.072	0.000	0.00	45.35
95.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	5.876	0.072	0.000	0.00	24.00
95.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	5.876	0.072	0.000	0.00	1.80
95.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	5.876	0.072	0.000	0.00	21.90
95.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	5.876	0.072	0.000	0.00	1.62
95.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	5.876	0.072	0.000	0.00	59.03
95.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	5.876	0.072	0.000	0.00	59.03
95.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	5.876	0.072	0.000	0.00	7.80
95.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	5.876	0.072	0.000	0.00	0.90
100.0	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	2.22	0.00	5.965	0.075	0.000	0.00	133.63
100.0	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	5.965	0.075	0.000	0.00	0.48
100.0	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	5.965	0.075	0.000	0.00	0.17
100.0	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	5.965	0.075	0.000	0.00	3.72
100.0	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	5.965	0.075	0.000	0.00	45.35
100.0	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	5.965	0.075	0.000	0.00	24.00
100.0	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	5.965	0.075	0.000	0.00	1.80

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:35 AM

Customer: T-MOBILE

<b>Load Case: 1.2D + 1.0Di + 1.0Wi</b>		<b>50 mph with 0.75 in Radial Ice</b>						<b>23 Iterations</b>			
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											

100.0	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	5.965	0.075	0.000	0.00	21.90
100.0	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	5.965	0.075	0.000	0.00	1.62
100.0	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	5.965	0.075	0.000	0.00	59.03
100.0	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	5.965	0.075	0.000	0.00	59.03
100.0	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	5.965	0.075	0.000	0.00	7.80
100.0	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	5.965	0.075	0.000	0.00	0.90
105.0	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	2.23	0.00	6.051	0.078	0.000	0.00	134.19
105.0	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	6.051	0.078	0.000	0.00	0.48
105.0	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	6.051	0.078	0.000	0.00	0.17
105.0	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	6.051	0.078	0.000	0.00	3.72
105.0	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	6.051	0.078	0.000	0.00	45.35
105.0	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	6.051	0.078	0.000	0.00	24.00
105.0	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.051	0.078	0.000	0.00	1.80
105.0	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	6.051	0.078	0.000	0.00	21.90
105.0	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	6.051	0.078	0.000	0.00	1.62
105.0	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	6.051	0.078	0.000	0.00	59.03
110.0	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	2.23	0.00	6.134	0.082	0.000	0.00	134.73
110.0	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	6.134	0.082	0.000	0.00	0.48
110.0	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	6.134	0.082	0.000	0.00	0.17
110.0	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	6.134	0.082	0.000	0.00	3.72
110.0	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	6.134	0.082	0.000	0.00	45.35
110.0	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	6.134	0.082	0.000	0.00	24.00
110.0	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.134	0.082	0.000	0.00	1.80
110.0	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	6.134	0.082	0.000	0.00	21.90
110.0	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	6.134	0.082	0.000	0.00	1.62
110.0	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	6.134	0.082	0.000	0.00	59.03
115.0	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	2.24	0.00	6.214	0.086	0.000	0.00	135.24
115.0	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	6.214	0.086	0.000	0.00	0.48
115.0	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	6.214	0.086	0.000	0.00	0.17
115.0	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	6.214	0.086	0.000	0.00	3.72
115.0	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	6.214	0.086	0.000	0.00	45.35
115.0	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	6.214	0.086	0.000	0.00	24.00
115.0	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.214	0.086	0.000	0.00	1.80
115.0	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	6.214	0.086	0.000	0.00	21.90
115.0	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	6.214	0.086	0.000	0.00	1.62
120.0	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	2.24	0.00	6.292	0.090	0.000	0.00	135.73
120.0	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	6.292	0.090	0.000	0.00	0.48
120.0	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	6.292	0.090	0.000	0.00	0.17
120.0	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	6.292	0.090	0.000	0.00	3.72
120.0	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	6.292	0.090	0.000	0.00	45.35
120.0	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	6.292	0.090	0.000	0.00	24.00
120.0	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.292	0.090	0.000	0.00	1.80
120.0	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	6.292	0.090	0.000	0.00	21.90
120.0	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	6.292	0.090	0.000	0.00	1.62
125.0	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	2.25	0.00	6.367	0.095	0.000	0.00	136.21
125.0	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	6.367	0.095	0.000	0.00	0.48
125.0	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	6.367	0.095	0.000	0.00	0.17
125.0	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	6.367	0.095	0.000	0.00	3.72
125.0	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	6.367	0.095	0.000	0.00	45.35
125.8	(6) 1 5/8" Coax	Yes	0.80	0.00	1.98	0.36	0.00	6.410	0.098	0.000	0.00	21.85
125.8	(1) 3/8" Coax	No	0.80	0.00	0.44	0.00	0.00	6.410	0.098	0.000	0.00	0.08
125.8	(1) 0.28" RG-6	No	0.80	0.00	0.00	0.00	0.00	6.410	0.098	0.000	0.00	0.03
125.8	(2) 0.65" 8 AWG 2C	No	0.80	0.00	0.00	0.00	0.00	6.410	0.098	0.000	0.00	0.60
125.8	(12) 1 1/4" Coax	No	0.80	0.00	0.00	0.00	0.00	6.410	0.098	0.000	0.00	7.26
130.0	(6) 1 5/8" Coax	Yes	4.20	0.00	1.98	1.90	0.00	6.446	0.184	1.253	0.00	114.82
130.0	(1) 3/8" Coax	No	4.20	0.00	0.44	0.00	0.00	6.446	0.184	1.253	0.00	0.40
130.0	(1) 0.28" RG-6	No	4.20	0.00	0.00	0.00	0.00	6.446	0.184	1.253	0.00	0.15

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:35 AM

Customer: T-MOBILE

**Load Case:** 1.2D + 1.0Di + 1.0Wi

50 mph with 0.75 in Radial Ice

23 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

130.0	(2) 0.65" 8 AWG 2C	No	4.20	0.00	0.00	0.00	0.00	6.446	0.184	1.253	0.00	3.12
130.0	(12) 1 1/4" Coax	No	4.20	0.00	0.00	0.00	0.00	6.446	0.184	1.253	0.00	38.09
131.0	(6) 1 5/8" Coax	Yes	1.00	0.00	1.98	0.45	0.00	6.483	0.184	1.253	0.00	27.39
131.0	(1) 3/8" Coax	No	1.00	0.00	0.44	0.00	0.00	6.483	0.184	1.253	0.00	0.10
131.0	(1) 0.28" RG-6	No	1.00	0.00	0.00	0.00	0.00	6.483	0.184	1.253	0.00	0.03
131.0	(2) 0.65" 8 AWG 2C	No	1.00	0.00	0.00	0.00	0.00	6.483	0.184	1.253	0.00	0.74
131.0	(12) 1 1/4" Coax	No	1.00	0.00	0.00	0.00	0.00	6.483	0.184	1.253	0.00	9.07
135.0	(6) 1 5/8" Coax	Yes	4.00	0.00	1.98	1.81	0.00	6.519	0.184	1.253	0.00	109.73
135.0	(1) 3/8" Coax	No	4.00	0.00	0.44	0.00	0.00	6.519	0.184	1.253	0.00	0.38
136.0	(6) 1 5/8" Coax	Yes	1.00	0.00	1.98	0.45	0.00	6.553	0.184	1.253	0.00	27.48
136.0	(1) 3/8" Coax	No	1.00	0.00	0.44	0.00	0.00	6.553	0.184	1.253	0.00	0.10
<b>Totals:</b>											<b>483.67</b>	<b>19,736.46</b>



Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:35 AM

Customer: T-MOBILE

**Load Case:** 1.2D + 1.0Di + 1.0Wi

50 mph with 0.75 in Radial Ice

23 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		56.6	0.0					0.0	0.0	56.6	0.0	0.0	0.0
5.00		112.2	1,604.9					0.0	1,071.3	112.2	2,676.2	0.0	0.0
10.00		110.1	1,605.8					0.0	1,106.5	110.1	2,712.2	0.0	0.0
15.00		107.8	1,585.8					0.0	1,124.4	107.8	2,710.2	0.0	0.0
20.00		105.4	1,558.9					0.0	1,136.8	105.4	2,695.8	0.0	0.0
25.00		103.0	1,528.5					40.0	1,146.5	143.0	2,675.0	0.0	0.0
30.00		101.7	1,495.8					40.4	1,154.4	142.2	2,650.2	0.0	0.0
35.00		102.5	1,461.6					41.8	1,161.1	144.3	2,622.7	0.0	0.0
40.00		54.2	1,426.2					43.8	1,166.9	98.0	2,593.1	0.0	0.0
40.24	Bot - Section 2	53.1	68.8					2.2	57.0	55.3	125.8	0.0	0.0
45.00		54.8	2,180.3					43.5	1,115.1	98.4	3,295.4	0.0	0.0
45.40	Top - Section 1	53.5	181.1					3.7	94.0	57.2	275.0	0.0	0.0
50.00		102.7	1,139.0					43.7	1,082.9	146.5	2,221.9	0.0	0.0
55.00		60.8	1,205.7					49.1	1,181.1	109.9	2,386.8	0.0	0.0
55.68	Reinf. Top	53.4	161.3					6.8	160.2	60.2	321.5	0.0	0.0
60.00		99.4	1,012.0					43.9	678.3	143.2	1,690.3	0.0	0.0
65.00		105.9	1,137.9					45.5	731.2	151.5	1,869.1	0.0	0.0
70.00	Appertunance(s)	105.0	1,103.4	7.5	0.0	0.0	39.6	0.0	648.5	112.5	1,791.5	0.0	0.0
75.00		103.8	1,068.6					0.0	648.9	103.8	1,717.5	0.0	0.0
80.00	Appertunance(s)	59.2	1,033.4	104.6	0.0	91.3	590.2	0.0	651.0	163.8	2,274.6	0.0	0.0
80.75	Bot - Section 3	50.5	152.4					5.8	97.1	56.3	249.5	0.0	0.0
84.90	Top - Section 2	43.8	1,219.2					32.5	539.2	76.4	1,758.5	0.0	0.0
85.00		51.8	15.6					0.8	13.1	52.6	28.7	0.0	0.0
90.00	Appertunance(s)	100.6	758.0	733.5	0.0	0.0	6,645.5	39.9	651.3	874.1	8,054.7	0.0	0.0
95.00		98.7	730.8					0.0	358.9	98.7	1,089.7	0.0	0.0
100.00	Appertunance(s)	96.5	703.5	715.5	0.0	9.2	5,839.0	0.0	359.4	812.1	6,901.9	0.0	0.0
105.00		94.3	676.0					0.0	292.3	94.3	968.3	0.0	0.0
110.00	Appertunance(s)	91.8	648.3	581.8	0.0	0.0	4,627.2	0.0	292.8	673.6	5,568.3	0.0	0.0
115.00		89.3	620.4					0.0	234.3	89.3	854.7	0.0	0.0
120.00	Appertunance(s)	86.6	592.4	801.3	0.0	0.0	7,216.6	0.0	234.8	887.9	8,043.8	0.0	0.0
125.00		49.3	564.3					0.0	185.9	49.3	750.2	0.0	0.0
125.80	Top - Section 3	27.8	88.5					0.0	29.8	27.8	118.3	0.0	0.0
130.00		26.2	319.4					0.0	156.6	26.2	476.0	0.0	0.0
131.00	Appertunance(s)	25.4	76.1	757.5	0.0	546.3	6,498.8	0.0	37.3	782.9	6,612.3	0.0	0.0
135.00		25.5	304.7					0.0	110.1	25.5	414.8	0.0	0.0
136.00	Appertunance(s)	25.7	76.2	64.7	0.0	194.2	412.3	0.0	27.6	90.4	516.1	0.0	0.0
140.00		31.0	305.1					0.0	0.0	31.0	305.1	0.0	0.0
142.00		10.4	152.7					0.0	0.0	10.4	152.7	0.0	0.0
<b>Totals:</b>									<b>6,980.38</b>	<b>82,168.3</b>	<b>0.00</b>	<b>0.00</b>	

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:35 AM

Customer: T-MOBILE

Load Case: 1.2D + 1.0Di + 1.0Wi

50 mph with 0.75 in Radial Ice

23 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 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	-82.17	-6.95	0.00	-668.08	0.00	668.08	4,350.13	2,175.06	7,987.32	3,944.64	0.00	0.00	0.134
5.00	-79.48	-6.90	0.00	-633.31	0.00	633.31	4,285.51	2,142.75	7,679.11	3,792.42	0.02	-0.04	0.131
10.00	-76.77	-6.84	0.00	-598.83	0.00	598.83	4,218.97	2,109.49	7,373.27	3,641.38	0.09	-0.08	0.128
15.00	-74.05	-6.78	0.00	-564.63	0.00	564.63	4,150.52	2,075.26	7,070.06	3,491.64	0.20	-0.12	0.124
20.00	-71.35	-6.72	0.00	-530.73	0.00	530.73	4,080.16	2,040.08	6,769.73	3,343.32	0.35	-0.17	0.121
25.00	-68.67	-6.62	0.00	-497.12	0.00	497.12	4,007.88	2,003.94	6,472.54	3,196.54	0.55	-0.21	0.117
30.00	-66.02	-6.52	0.00	-464.02	0.00	464.02	3,933.69	1,966.85	6,178.73	3,051.44	0.79	-0.25	0.113
35.00	-63.39	-6.41	0.00	-431.45	0.00	431.45	3,854.52	1,927.26	5,883.88	2,905.83	1.07	-0.29	0.109
40.00	-60.80	-6.32	0.00	-399.42	0.00	399.42	3,744.12	1,872.06	5,549.75	2,740.81	1.40	-0.33	0.106
40.24	-60.67	-6.28	0.00	-397.88	0.00	397.88	3,738.74	1,869.37	5,533.72	2,732.90	1.42	-0.34	0.106
45.00	-57.37	-6.19	0.00	-367.99	0.00	367.99	3,633.72	1,816.86	5,225.39	2,580.62	1.78	-0.38	0.101
45.40	-57.10	-6.15	0.00	-365.52	0.00	365.52	3,063.79	1,531.89	4,506.32	2,225.50	1.81	-0.38	0.113
50.00	-54.87	-6.02	0.00	-337.24	0.00	337.24	3,008.67	1,504.34	4,302.82	2,125.00	2.19	-0.42	0.107
55.00	-52.48	-5.92	0.00	-307.13	0.00	307.13	2,946.93	1,473.46	4,084.17	2,017.02	2.65	-0.46	0.102
55.68	-52.16	-5.87	0.00	-303.12	0.00	303.12	2,938.42	1,469.21	4,054.78	2,002.51	2.72	-0.47	0.101
55.68	-52.16	-5.87	0.00	-303.12	0.00	303.12	2,938.42	1,469.21	4,054.78	2,002.51	2.72	-0.47	0.169
60.00	-50.46	-5.76	0.00	-277.73	0.00	277.73	2,883.27	1,441.64	3,868.42	1,910.47	3.16	-0.50	0.163
65.00	-48.59	-5.65	0.00	-248.91	0.00	248.91	2,808.41	1,404.21	3,643.77	1,799.52	3.72	-0.57	0.156
70.00	-46.79	-5.58	0.00	-220.64	0.00	220.64	2,713.79	1,356.89	3,400.96	1,679.60	4.36	-0.64	0.149
75.00	-45.07	-5.51	0.00	-192.76	0.00	192.76	2,619.16	1,309.58	3,166.52	1,563.83	5.07	-0.71	0.140
80.00	-42.80	-5.34	0.00	-165.14	0.00	165.14	2,524.53	1,262.26	2,940.46	1,452.18	5.84	-0.77	0.131
80.75	-42.54	-5.30	0.00	-161.14	0.00	161.14	2,510.36	1,255.18	2,907.34	1,435.82	5.97	-0.78	0.129
84.90	-40.78	-5.22	0.00	-139.13	0.00	139.13	1,500.18	750.09	1,728.96	853.87	6.67	-0.83	0.190
85.00	-40.75	-5.20	0.00	-138.60	0.00	138.60	1,499.54	749.77	1,726.89	852.85	6.69	-0.84	0.190
90.00	-32.71	-4.24	0.00	-112.62	0.00	112.62	1,466.64	733.32	1,624.12	802.09	7.61	-0.92	0.163
95.00	-31.61	-4.16	0.00	-91.40	0.00	91.40	1,431.82	715.91	1,522.23	751.77	8.61	-0.99	0.144
100.00	-24.72	-3.26	0.00	-70.57	0.00	70.57	1,395.09	697.54	1,421.47	702.01	9.68	-1.05	0.118
105.00	-23.75	-3.17	0.00	-54.29	0.00	54.29	1,356.44	678.22	1,322.10	652.93	10.81	-1.11	0.101
110.00	-18.20	-2.40	0.00	-38.46	0.00	38.46	1,315.88	657.94	1,224.36	604.67	12.00	-1.16	0.077
115.00	-17.34	-2.30	0.00	-26.49	0.00	26.49	1,273.40	636.70	1,128.51	557.33	13.24	-1.20	0.061
120.00	-9.32	-1.24	0.00	-14.99	0.00	14.99	1,215.41	607.71	1,023.36	505.40	14.51	-1.23	0.037
125.00	-8.57	-1.18	0.00	-8.77	0.00	8.77	1,152.33	576.16	919.28	454.00	15.81	-1.25	0.027
125.80	-8.45	-1.15	0.00	-7.83	0.00	7.83	1,142.23	571.11	903.13	446.02	16.02	-1.25	0.025
125.80	-8.45	-1.15	0.00	-7.83	0.00	7.83	385.02	192.51	160.54	106.00	16.02	-1.25	0.096
130.00	-7.98	-1.12	0.00	-2.99	0.00	2.99	385.02	192.51	160.54	106.00	17.12	-1.26	0.049
131.00	-1.38	-0.19	0.00	-1.33	0.00	1.33	385.02	192.51	160.54	106.00	17.38	-1.26	0.016
135.00	-0.97	-0.15	0.00	-0.58	0.00	0.58	385.02	192.51	160.54	106.00	18.44	-1.27	0.008
136.00	-0.46	-0.05	0.00	-0.23	0.00	0.23	385.02	192.51	160.54	106.00	18.71	-1.27	0.003
140.00	-0.15	-0.01	0.00	-0.03	0.00	0.03	385.02	192.51	160.54	106.00	19.77	-1.27	0.001
142.00	0.00	-0.01	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	20.30	-1.27	0.000

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:36 AM

Customer: T-MOBILE

**Load Case: 1.0D + 1.0W**

Serviceability 60 mph

23 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

**Shaft Segment Forces (Factored)**

Seg Top Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Ap (sf)	EPAs (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	6.129	6.742	194.88	1.000	0.000	0.00	0.000	0.00	64.7	0.0	0.0
5.00		1.00	0.70	6.129	6.742	192.58	1.000	* 0.000	5.00	19.182	19.18	127.8	0.0	1,055.3
10.00		1.00	0.70	6.129	6.742	187.98	1.000	* 0.000	5.00	18.723	18.72	124.7	0.0	1,029.9
15.00		1.00	0.70	6.129	6.742	183.37	1.000	* 0.000	5.00	18.265	18.26	121.6	0.0	1,004.4
20.00		1.00	0.70	6.129	6.742	178.77	1.000	* 0.000	5.00	17.806	17.81	130.2	0.0	978.9
25.00		1.00	0.70	6.129	6.742	174.16	1.200	* 0.000	5.00	17.348	20.82	138.5	0.0	953.4
30.00		1.00	0.70	6.129	6.742	169.56	1.200	* 0.000	5.00	16.889	20.27	136.4	0.0	927.9
35.00		1.00	0.71	6.276	6.903	166.92	1.200	* 0.000	5.00	16.430	19.72	137.0	0.0	902.4
40.00		1.00	0.74	6.538	7.191	165.61	1.200	* 0.000	5.00	15.972	19.17	72.3	0.0	877.0
40.24	Bot - Section 2	1.00	0.76	6.665	7.332	164.70	1.200	* 0.000	0.24	0.767	0.92	70.7	0.0	42.1
45.00		1.00	0.77	6.781	7.459	163.71	1.200	* 0.000	4.76	15.054	18.07	73.1	0.0	1,519.0
45.40	Top - Section 1	1.00	0.78	6.896	7.586	162.57	1.200	* 0.000	0.40	1.247	1.50	71.0	0.0	125.8
50.00		1.00	0.80	7.003	7.703	164.84	1.200	* 0.000	4.60	14.131	16.96	136.2	0.0	665.9
55.00		1.00	0.82	7.197	7.917	162.32	1.200	* 0.000	5.00	14.919	17.90	80.4	0.0	702.9
55.68	Reinf. Top	1.00	0.83	7.306	8.037	160.69	1.200	* 0.000	0.68	1.985	2.38	70.5	0.0	93.5
60.00		1.00	0.84	7.399	8.139	159.18	1.200	* 0.000	4.32	12.476	14.97	130.8	0.0	587.5
65.00		1.00	0.86	7.565	8.321	156.18	1.200	* 0.000	5.00	14.002	16.80	127.5	0.0	659.2
70.00	Appertunance(s)	1.00	0.88	7.733	8.506	152.74	1.000	* 0.000	5.00	13.544	13.54	114.4	0.0	637.3
75.00		1.00	0.90	7.893	8.682	149.08	1.000	* 0.000	5.00	13.085	13.08	112.7	0.0	615.5
80.00	Appertunance(s)	1.00	0.91	8.044	8.849	145.23	1.000	* 0.000	5.00	12.626	12.63	65.8	0.0	593.6
80.75	Bot - Section 3	1.00	0.92	8.129	8.941	142.94	1.200	* 0.000	0.75	1.851	2.22	65.4	0.0	87.0
84.90	Top - Section 2	1.00	0.93	8.199	9.018	140.95	1.200	* 0.000	4.15	10.256	12.31	56.8	0.0	796.3
85.00		1.00	0.94	8.258	9.084	141.70	1.200	* 0.000	0.10	0.244	0.29	66.9	0.0	7.7
90.00	Appertunance(s)	1.00	0.95	8.328	9.161	139.56	1.200	* 0.000	5.00	11.925	14.31	118.9	0.0	375.2
95.00		1.00	0.96	8.462	9.308	135.26	1.000	0.000	5.00	11.466	11.47	105.4	0.0	360.6
100.0	Appertunance(s)	1.00	0.98	8.590	9.449	130.83	1.000	0.000	5.00	11.007	11.01	102.6	0.0	346.1
105.0		1.00	0.99	8.713	9.585	126.28	1.000	0.000	5.00	10.549	10.55	99.6	0.0	331.5
110.0	Appertunance(s)	1.00	1.00	8.833	9.716	121.61	1.000	0.000	5.00	10.090	10.09	96.4	0.0	316.9
115.0		1.00	1.02	8.948	9.843	116.84	1.000	0.000	5.00	9.632	9.63	93.1	0.0	302.4
120.0	Appertunance(s)	1.00	1.03	9.060	9.966	111.97	1.000	0.000	5.00	9.173	9.17	89.7	0.0	287.8
125.0		1.00	1.04	9.169	10.08	107.01	1.000	0.000	5.00	8.714	8.71	50.8	0.0	273.3
125.8	Top - Section 3	1.00	1.05	9.230	10.15	104.09	1.000	0.000	0.80	1.353	1.35	20.2	0.0	42.4
130.0		1.00	1.06	9.282	10.21	55.345	0.694	* 0.000	4.20	3.762	2.61	16.5	0.0	174.7
131.0	Appertunance(s)	1.00	1.06	9.336	10.26	55.504	0.692	* 0.000	1.00	0.896	0.62	15.9	0.0	41.6
135.0		1.00	1.07	9.387	10.32	55.655	0.690	* 0.000	4.00	3.583	2.47	16.0	0.0	166.4
136.0	Appertunance(s)	1.00	1.07	9.437	10.38	55.803	0.688	* 0.000	1.00	0.896	0.62	16.0	0.0	41.6
140.0		1.00	1.08	9.486	10.43	55.949	0.686	0.000	4.00	3.583	2.46	19.3	0.0	166.4
142.0		1.00	1.09	9.545	10.49	56.121	0.684	0.000	2.00	1.792	1.23	6.4	0.0	83.2
								<b>Totals:</b>	<b>142.00</b>			<b>3,162.0</b>	<b>0.0</b>	<b>18,172.5</b>

\* = Cf Adjusted By Linear Load Ra Effect

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:36 AM

Customer: T-MOBILE

**Load Case: 1.0D + 1.0W**

Serviceability 60 mph

23 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

**Discrete Appurtenance Segment Forces (Factored)**

Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orientation Factor	Ka	Total EPAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
70.00	PCTEL GPS-TMG-HR-	1	7.814	8.595	1.00	1.00	0.09	0.000	0.000	0.77	0.00	0.00	0.60
70.00	Stand-Off	1	7.814	8.595	0.67	1.00	0.67	0.000	0.000	5.76	0.00	0.00	30.00
80.00	Diamond X50A	2	8.204	9.024	1.00	1.00	2.24	0.000	3.000	20.21	0.00	60.64	4.60
80.00	6' Omni	2	8.118	8.930	1.00	1.00	3.52	0.000	0.000	31.43	0.00	0.00	50.00
80.00	Stand-Offs	2	8.118	8.930	0.67	1.00	4.02	0.000	0.000	35.90	0.00	0.00	100.00
90.00	RFS ATMAA1412D-	4	8.396	9.235	0.33	0.75	0.99	0.000	0.000	9.14	0.00	0.00	52.00
90.00	Ericsson RRUS 11 B12	3	8.396	9.235	0.50	0.75	3.14	0.000	0.000	28.99	0.00	0.00	152.10
90.00	Ericsson AIR 21, 1,3	4	8.396	9.235	0.71	0.75	12.89	0.000	0.000	119.01	0.00	0.00	332.00
90.00	Ericsson AIR 21, 1,3	3	8.396	9.235	0.70	0.75	9.59	0.000	0.000	88.58	0.00	0.00	244.50
90.00	Andrew LNX-6515DS-	3	8.396	9.235	0.70	0.75	18.00	0.000	0.000	166.25	0.00	0.00	153.90
90.00	Flat Platform w/ Han	1	8.396	9.235	1.00	1.00	42.40	0.000	0.000	391.57	0.00	0.00	2,000.00
100.0	RFS FD9R6004/1C-3L	6	8.652	9.517	0.33	0.75	0.55	0.000	0.000	5.23	0.00	0.00	18.60
100.0	GPS	1	8.750	9.625	0.50	0.75	0.38	0.000	4.000	3.61	0.00	14.44	10.00
100.0	Alcatel-Lucent RRH2x	3	8.652	9.517	0.50	0.75	2.43	0.000	0.000	23.13	0.00	0.00	132.00
100.0	Rymssa MGD3-800TX	3	8.652	9.517	0.69	0.75	5.19	0.000	0.000	49.35	0.00	0.00	46.20
100.0	Antel BXA-171063/12C	3	8.652	9.517	0.72	0.75	7.76	0.000	0.000	73.85	0.00	0.00	45.00
100.0	RFS DB-T1-6Z-8AB-0Z	1	8.652	9.517	1.00	0.75	3.60	0.000	0.000	34.26	0.00	0.00	44.00
100.0	Antel BXA-70080/6CF_	3	8.652	9.517	0.72	0.75	9.46	0.000	0.000	90.04	0.00	0.00	54.00
100.0	Powerwave Allgon	3	8.652	9.517	0.65	0.75	11.89	0.000	0.000	113.16	0.00	0.00	99.00
100.0	Flat Platform w/ Han	1	8.652	9.517	1.00	1.00	39.60	0.000	0.000	376.89	0.00	0.00	2,000.00
110.0	Swedcom ALP 9011-	12	8.891	9.780	0.74	0.75	21.11	0.000	0.000	206.48	0.00	0.00	120.00
110.0	Flat Platform w/ Han	1	8.891	9.780	1.00	1.00	42.40	0.000	0.000	414.68	0.00	0.00	2,000.00
120.0	DragonWave Horizon	2	9.115	10.026	0.33	0.75	0.21	0.000	0.000	2.13	0.00	0.00	21.20
120.0	NextNet BTS-2500	3	9.115	10.026	0.50	0.75	2.05	0.000	0.000	20.53	0.00	0.00	105.00
120.0	Alcatel-Lucent 800 M	3	9.115	10.026	0.50	0.75	2.32	0.000	0.000	23.24	0.00	0.00	192.00
120.0	Alcatel-Lucent 1900	3	9.115	10.026	0.50	0.75	2.61	0.000	0.000	26.17	0.00	0.00	180.00
120.0	Alcatel-Lucent TD-RR	3	9.115	10.026	0.50	0.75	4.56	0.000	0.000	45.68	0.00	0.00	210.00
120.0	Argus LLPX310R	3	9.115	10.026	0.63	0.75	6.08	0.000	0.000	60.97	0.00	0.00	85.80
120.0	DragonWave A-ANT-	2	9.115	10.026	0.90	0.75	6.33	0.000	0.000	63.48	0.00	0.00	54.20
120.0	RFS RFS APXV9TM14-	3	9.115	10.026	0.66	0.75	9.41	0.000	0.000	94.40	0.00	0.00	165.30
120.0	RFS APXVSPP18-C-	3	9.115	10.026	0.69	0.75	12.45	0.000	0.000	124.84	0.00	0.00	171.00
120.0	Flat Platform w/ Han	1	9.115	10.026	1.00	1.00	39.50	0.000	0.000	396.04	0.00	0.00	2,000.00
131.0	Powerwave Allgon	6	9.447	10.391	0.50	0.75	0.52	0.000	5.000	5.38	0.00	26.89	33.00
131.0	Powerwave Allgon	6	9.346	10.281	0.50	0.75	2.48	0.000	0.000	25.44	0.00	0.00	84.60
131.0	Raycap DC6-48-60-18-	1	9.346	10.281	1.00	0.75	0.96	0.000	0.000	9.87	0.00	0.00	31.80
131.0	Ericsson RRUS 11 (Ba	6	9.346	10.281	0.50	0.75	5.78	0.000	0.000	59.45	0.00	0.00	264.00
131.0	Powerwave Allgon 777	6	9.346	10.281	0.65	0.75	16.12	0.000	0.000	165.69	0.00	0.00	210.00
131.0	Powerwave Allgon	3	9.447	10.391	0.67	0.75	12.26	0.000	5.000	127.36	0.00	636.78	159.00
131.0	Flat Platform w/ Han	1	9.346	10.281	1.00	1.00	39.50	0.000	0.000	406.09	0.00	0.00	2,000.00
136.0	Generic RCU (Remote	6	9.506	10.456	0.33	0.80	0.25	0.000	3.000	2.65	0.00	7.95	6.00
136.0	Kathrein Scala 742-2	3	9.506	10.456	0.73	0.80	6.75	0.000	3.000	70.53	0.00	211.59	67.50
										4,018.23			13,728.90

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:36 AM

Customer: T-MOBILE

**Load Case: 1.0D + 1.0W**

Serviceability 60 mph

23 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

**Linear Appurtenance Segment Forces (Factored)**

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	qz (psf)	Ra	Cf Adjust Factor	FX (lb)	Dead Load (lb)
5.00	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	6.129	0.183	1.250	0.00	24.60
5.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.82	0.00	0.000	0.000	0.000	0.00	334.00
5.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	6.129	0.183	1.250	0.00	0.40
5.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	6.129	0.183	1.250	0.00	0.14
5.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	6.129	0.183	1.250	0.00	3.10
5.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.183	1.250	0.00	37.79
5.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	6.129	0.183	1.250	0.00	20.00
5.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.183	1.250	0.00	1.50
5.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	6.129	0.183	1.250	0.00	18.25
5.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.183	1.250	0.00	1.35
5.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.183	1.250	0.00	49.19
5.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.183	1.250	0.00	49.19
5.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	6.129	0.183	1.250	0.00	6.50
5.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.183	1.250	0.00	0.75
5.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	6.129	0.183	1.250	0.00	5.25
5.00	(14) 1 5/8" Coax	Yes	5.00	0.00	3.96	1.65	0.00	6.129	0.183	1.250	0.00	57.39
5.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.183	1.250	0.00	1.50
5.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.183	1.250	0.00	1.50
5.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.183	1.250	0.00	1.50
5.00	(4) DYWIDAG	Yes	5.00	0.00	2.50	1.04	0.00	6.129	0.183	1.250	0.00	0.00
10.00	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	6.129	0.188	1.263	0.00	24.60
10.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.82	0.00	0.000	0.000	0.000	0.00	334.00
10.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	6.129	0.188	1.263	0.00	0.40
10.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	6.129	0.188	1.263	0.00	0.14
10.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	6.129	0.188	1.263	0.00	3.10
10.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.188	1.263	0.00	37.79
10.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	6.129	0.188	1.263	0.00	20.00
10.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.188	1.263	0.00	1.50
10.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	6.129	0.188	1.263	0.00	18.25
10.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.188	1.263	0.00	1.35
10.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.188	1.263	0.00	49.19
10.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.188	1.263	0.00	49.19
10.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	6.129	0.188	1.263	0.00	6.50
10.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.188	1.263	0.00	0.75
10.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	6.129	0.188	1.263	0.00	5.25
10.00	(14) 1 5/8" Coax	Yes	5.00	0.00	3.96	1.65	0.00	6.129	0.188	1.263	0.00	57.39
10.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.188	1.263	0.00	1.50
10.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.188	1.263	0.00	1.50
10.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.188	1.263	0.00	1.50
10.00	(4) DYWIDAG	Yes	5.00	0.00	2.50	1.04	0.00	6.129	0.188	1.263	0.00	0.00
15.00	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	6.129	0.193	1.278	0.00	24.60
15.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.82	0.00	0.000	0.000	0.000	0.00	334.00
15.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	6.129	0.193	1.278	0.00	0.40
15.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	6.129	0.193	1.278	0.00	0.14
15.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	6.129	0.193	1.278	0.00	3.10
15.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.193	1.278	0.00	37.79
15.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	6.129	0.193	1.278	0.00	20.00
15.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.193	1.278	0.00	1.50
15.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	6.129	0.193	1.278	0.00	18.25
15.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.193	1.278	0.00	1.35
15.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.193	1.278	0.00	49.19

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:36 AM

Customer: T-MOBILE

**Load Case: 1.0D + 1.0W**

Serviceability 60 mph

23 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

15.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.193	1.278	0.00	49.19
15.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	6.129	0.193	1.278	0.00	6.50
15.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.193	1.278	0.00	0.75
15.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	6.129	0.193	1.278	0.00	5.25
15.00	(14) 1 5/8" Coax	Yes	5.00	0.00	3.96	1.65	0.00	6.129	0.193	1.278	0.00	57.39
15.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.193	1.278	0.00	1.50
15.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.193	1.278	0.00	1.50
15.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.193	1.278	0.00	1.50
15.00	(4) DYWIDAG	Yes	5.00	0.00	2.50	1.04	0.00	6.129	0.193	1.278	0.00	0.00
20.00	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	6.129	0.197	1.292	0.00	24.60
20.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.82	0.00	0.000	0.000	0.000	0.00	334.00
20.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	6.129	0.197	1.292	0.00	0.40
20.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	6.129	0.197	1.292	0.00	0.14
20.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	6.129	0.197	1.292	0.00	3.10
20.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.197	1.292	0.00	37.79
20.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	6.129	0.197	1.292	0.00	20.00
20.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.197	1.292	0.00	1.50
20.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	6.129	0.197	1.292	0.00	18.25
20.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.197	1.292	0.00	1.35
20.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.197	1.292	0.00	49.19
20.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.197	1.292	0.00	49.19
20.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	6.129	0.197	1.292	0.00	6.50
20.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.197	1.292	0.00	0.75
20.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	6.129	0.197	1.292	0.00	5.25
20.00	(14) 1 5/8" Coax	Yes	5.00	0.00	3.96	1.65	0.00	6.129	0.197	1.292	0.00	57.39
20.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.197	1.292	0.00	1.50
20.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.197	1.292	0.00	1.50
20.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.197	1.292	0.00	1.50
20.00	(4) DYWIDAG	Yes	5.00	0.00	2.50	1.04	0.00	6.129	0.197	1.292	0.00	0.00
25.00	(6) 1 5/8" Coax	Yes	5.00	1.20	1.98	0.82	0.99	6.129	0.203	0.000	6.67	24.60
25.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.82	0.00	0.000	0.000	0.000	0.00	334.00
25.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	6.129	0.203	0.000	0.00	0.40
25.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	6.129	0.203	0.000	0.00	0.14
25.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	6.129	0.203	0.000	0.00	3.10
25.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.203	0.000	0.00	37.79
25.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	6.129	0.203	0.000	0.00	20.00
25.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.203	0.000	0.00	1.50
25.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	6.129	0.203	0.000	0.00	18.25
25.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.203	0.000	0.00	1.35
25.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.203	0.000	0.00	49.19
25.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.203	0.000	0.00	49.19
25.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	6.129	0.203	0.000	0.00	6.50
25.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.203	0.000	0.00	0.75
25.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	6.129	0.203	0.000	0.00	5.25
25.00	(14) 1 5/8" Coax	Yes	5.00	1.20	3.96	1.65	1.98	6.129	0.203	0.000	13.35	57.39
25.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.203	0.000	0.00	1.50
25.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.203	0.000	0.00	1.50
25.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.203	0.000	0.00	1.50
25.00	(4) DYWIDAG	Yes	5.00	1.20	2.50	1.04	1.25	6.129	0.203	0.000	8.43	0.00
30.00	(6) 1 5/8" Coax	Yes	5.00	1.20	1.98	0.82	0.99	6.129	0.208	0.000	6.67	24.60
30.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.82	0.00	0.000	0.000	0.000	0.00	334.00
30.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	6.129	0.208	0.000	0.00	0.40
30.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	6.129	0.208	0.000	0.00	0.14
30.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	6.129	0.208	0.000	0.00	3.10
30.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.208	0.000	0.00	37.79
30.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	6.129	0.208	0.000	0.00	20.00
30.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.208	0.000	0.00	1.50

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:36 AM

Customer: T-MOBILE

<b>Load Case: 1.0D + 1.0W</b>	<b>Serviceability 60 mph</b>										<b>23 Iterations</b>
Gust Response Factor : 1.10											Wind Importance Factor : 1.00
Dead Load Factor : 1.00											
Wind Load Factor : 1.00											

30.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	6.129	0.208	0.000	0.00	18.25
30.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.208	0.000	0.00	1.35
30.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.208	0.000	0.00	49.19
30.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.208	0.000	0.00	49.19
30.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	6.129	0.208	0.000	0.00	6.50
30.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.208	0.000	0.00	0.75
30.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	6.129	0.208	0.000	0.00	5.25
30.00	(14) 1 5/8" Coax	Yes	5.00	1.20	3.96	1.65	1.98	6.129	0.208	0.000	13.35	57.39
30.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.208	0.000	0.00	1.50
30.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.208	0.000	0.00	1.50
30.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.129	0.208	0.000	0.00	1.50
30.00	(4) DYWIDAG	Yes	5.00	1.20	2.50	1.04	1.25	6.129	0.208	0.000	8.43	0.00
35.00	(6) 1 5/8" Coax	Yes	5.00	1.20	1.98	0.82	0.99	6.276	0.214	0.000	6.83	24.60
35.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.82	0.00	0.000	0.000	0.000	0.00	334.00
35.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	6.276	0.214	0.000	0.00	0.40
35.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	6.276	0.214	0.000	0.00	0.14
35.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	6.276	0.214	0.000	0.00	3.10
35.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	6.276	0.214	0.000	0.00	37.79
35.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	6.276	0.214	0.000	0.00	20.00
35.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.276	0.214	0.000	0.00	1.50
35.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	6.276	0.214	0.000	0.00	18.25
35.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	6.276	0.214	0.000	0.00	1.35
35.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	6.276	0.214	0.000	0.00	49.19
35.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	6.276	0.214	0.000	0.00	49.19
35.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	6.276	0.214	0.000	0.00	6.50
35.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.276	0.214	0.000	0.00	0.75
35.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	6.276	0.214	0.000	0.00	5.25
35.00	(14) 1 5/8" Coax	Yes	5.00	1.20	3.96	1.65	1.98	6.276	0.214	0.000	13.67	57.39
35.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.276	0.214	0.000	0.00	1.50
35.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.276	0.214	0.000	0.00	1.50
35.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.276	0.214	0.000	0.00	1.50
35.00	(4) DYWIDAG	Yes	5.00	1.20	2.50	1.04	1.25	6.276	0.214	0.000	8.63	0.00
40.00	(6) 1 5/8" Coax	Yes	5.00	1.20	1.98	0.82	0.99	6.538	0.220	0.000	7.12	24.60
40.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.82	0.00	0.000	0.000	0.000	0.00	334.00
40.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	6.538	0.220	0.000	0.00	0.40
40.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	6.538	0.220	0.000	0.00	0.14
40.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	6.538	0.220	0.000	0.00	3.10
40.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	6.538	0.220	0.000	0.00	37.79
40.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	6.538	0.220	0.000	0.00	20.00
40.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.538	0.220	0.000	0.00	1.50
40.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	6.538	0.220	0.000	0.00	18.25
40.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	6.538	0.220	0.000	0.00	1.35
40.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	6.538	0.220	0.000	0.00	49.19
40.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	6.538	0.220	0.000	0.00	49.19
40.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	6.538	0.220	0.000	0.00	6.50
40.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.538	0.220	0.000	0.00	0.75
40.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	6.538	0.220	0.000	0.00	5.25
40.00	(14) 1 5/8" Coax	Yes	5.00	1.20	3.96	1.65	1.98	6.538	0.220	0.000	14.24	57.39
40.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.538	0.220	0.000	0.00	1.50
40.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.538	0.220	0.000	0.00	1.50
40.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	6.538	0.220	0.000	0.00	1.50
40.00	(4) DYWIDAG	Yes	5.00	1.20	2.50	1.04	1.25	6.538	0.220	0.000	8.99	0.00
40.24	(6) 1 5/8" Coax	Yes	0.24	1.20	1.98	0.04	0.05	6.665	0.224	0.000	0.35	1.20
40.24	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.04	0.00	0.000	0.000	0.000	0.00	16.28
40.24	(1) 3/8" Coax	No	0.24	0.00	0.44	0.00	0.00	6.665	0.224	0.000	0.00	0.02
40.24	(1) 0.28" RG-6	No	0.24	0.00	0.00	0.00	0.00	6.665	0.224	0.000	0.00	0.01
40.24	(2) 0.65" 8 AWG 2C	No	0.24	0.00	0.00	0.00	0.00	6.665	0.224	0.000	0.00	0.15

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:37 AM

Customer: T-MOBILE

<b>Load Case:</b> 1.0D + 1.0W	<b>Serviceability</b> 60 mph	<b>23 Iterations</b>
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

40.24	(12) 1 1/4" Coax	No	0.24	0.00	0.00	0.00	0.00	6.665	0.224	0.000	0.00	1.84
40.24	(4) 1 1/4" Hybriflex	No	0.24	0.00	0.00	0.00	0.00	6.665	0.224	0.000	0.00	0.97
40.24	(2) 1/2" Coax	No	0.24	0.00	0.00	0.00	0.00	6.665	0.224	0.000	0.00	0.07
40.24	(1) 2" Conduit	No	0.24	0.00	0.00	0.00	0.00	6.665	0.224	0.000	0.00	0.89
40.24	(6) 5/16" Coax	No	0.24	0.00	0.00	0.00	0.00	6.665	0.224	0.000	0.00	0.07
40.24	(12) 1 5/8" Coax	No	0.24	0.00	0.00	0.00	0.00	6.665	0.224	0.000	0.00	2.40
40.24	(12) 1 5/8" Coax	No	0.24	0.00	0.00	0.00	0.00	6.665	0.224	0.000	0.00	2.40
40.24	(1) 1 5/8" Hybriflex	No	0.24	0.00	0.00	0.00	0.00	6.665	0.224	0.000	0.00	0.32
40.24	(1) 1/2" Coax	No	0.24	0.00	0.00	0.00	0.00	6.665	0.224	0.000	0.00	0.04
40.24	(1) 1 1/4" Fiber	No	0.24	0.00	0.00	0.00	0.00	6.665	0.224	0.000	0.00	0.26
40.24	(14) 1 5/8" Coax	Yes	0.24	1.20	3.96	0.08	0.10	6.665	0.224	0.000	0.71	2.80
40.24	(2) 1/2" Coax	No	0.24	0.00	0.00	0.00	0.00	6.665	0.224	0.000	0.00	0.07
40.24	(2) 1/2" Coax	No	0.24	0.00	0.00	0.00	0.00	6.665	0.224	0.000	0.00	0.07
40.24	(2) 1/2" Coax	No	0.24	0.00	0.00	0.00	0.00	6.665	0.224	0.000	0.00	0.07
40.24	(4) DYWIDAG	Yes	0.24	1.20	2.50	0.05	0.06	6.665	0.224	0.000	0.45	0.00
45.00	(6) 1 5/8" Coax	Yes	4.76	1.20	1.98	0.78	0.94	6.781	0.227	0.000	7.02	23.40
45.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.78	0.00	0.000	0.000	0.000	0.00	317.72
45.00	(1) 3/8" Coax	No	4.76	0.00	0.44	0.00	0.00	6.781	0.227	0.000	0.00	0.38
45.00	(1) 0.28" RG-6	No	4.76	0.00	0.00	0.00	0.00	6.781	0.227	0.000	0.00	0.14
45.00	(2) 0.65" 8 AWG 2C	No	4.76	0.00	0.00	0.00	0.00	6.781	0.227	0.000	0.00	2.95
45.00	(12) 1 1/4" Coax	No	4.76	0.00	0.00	0.00	0.00	6.781	0.227	0.000	0.00	35.95
45.00	(4) 1 1/4" Hybriflex	No	4.76	0.00	0.00	0.00	0.00	6.781	0.227	0.000	0.00	19.03
45.00	(2) 1/2" Coax	No	4.76	0.00	0.00	0.00	0.00	6.781	0.227	0.000	0.00	1.43
45.00	(1) 2" Conduit	No	4.76	0.00	0.00	0.00	0.00	6.781	0.227	0.000	0.00	17.36
45.00	(6) 5/16" Coax	No	4.76	0.00	0.00	0.00	0.00	6.781	0.227	0.000	0.00	1.28
45.00	(12) 1 5/8" Coax	No	4.76	0.00	0.00	0.00	0.00	6.781	0.227	0.000	0.00	46.80
45.00	(12) 1 5/8" Coax	No	4.76	0.00	0.00	0.00	0.00	6.781	0.227	0.000	0.00	46.80
45.00	(1) 1 5/8" Hybriflex	No	4.76	0.00	0.00	0.00	0.00	6.781	0.227	0.000	0.00	6.18
45.00	(1) 1/2" Coax	No	4.76	0.00	0.00	0.00	0.00	6.781	0.227	0.000	0.00	0.71
45.00	(1) 1 1/4" Fiber	No	4.76	0.00	0.00	0.00	0.00	6.781	0.227	0.000	0.00	4.99
45.00	(14) 1 5/8" Coax	Yes	4.76	1.20	3.96	1.57	1.88	6.781	0.227	0.000	14.05	54.60
45.00	(2) 1/2" Coax	No	4.76	0.00	0.00	0.00	0.00	6.781	0.227	0.000	0.00	1.43
45.00	(2) 1/2" Coax	No	4.76	0.00	0.00	0.00	0.00	6.781	0.227	0.000	0.00	1.43
45.00	(2) 1/2" Coax	No	4.76	0.00	0.00	0.00	0.00	6.781	0.227	0.000	0.00	1.43
45.00	(4) DYWIDAG	Yes	4.76	1.20	2.50	0.99	1.19	6.781	0.227	0.000	8.87	0.00
45.40	(6) 1 5/8" Coax	Yes	0.40	1.20	1.98	0.07	0.08	6.896	0.230	0.000	0.60	1.97
45.40	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.07	0.00	0.000	0.000	0.000	0.00	26.71
45.40	(1) 3/8" Coax	No	0.40	0.00	0.44	0.00	0.00	6.896	0.230	0.000	0.00	0.03
45.40	(1) 0.28" RG-6	No	0.40	0.00	0.00	0.00	0.00	6.896	0.230	0.000	0.00	0.01
45.40	(2) 0.65" 8 AWG 2C	No	0.40	0.00	0.00	0.00	0.00	6.896	0.230	0.000	0.00	0.25
45.40	(12) 1 1/4" Coax	No	0.40	0.00	0.00	0.00	0.00	6.896	0.230	0.000	0.00	3.02
45.40	(4) 1 1/4" Hybriflex	No	0.40	0.00	0.00	0.00	0.00	6.896	0.230	0.000	0.00	1.60
45.40	(2) 1/2" Coax	No	0.40	0.00	0.00	0.00	0.00	6.896	0.230	0.000	0.00	0.12
45.40	(1) 2" Conduit	No	0.40	0.00	0.00	0.00	0.00	6.896	0.230	0.000	0.00	1.46
45.40	(6) 5/16" Coax	No	0.40	0.00	0.00	0.00	0.00	6.896	0.230	0.000	0.00	0.11
45.40	(12) 1 5/8" Coax	No	0.40	0.00	0.00	0.00	0.00	6.896	0.230	0.000	0.00	3.93
45.40	(12) 1 5/8" Coax	No	0.40	0.00	0.00	0.00	0.00	6.896	0.230	0.000	0.00	3.93
45.40	(1) 1 5/8" Hybriflex	No	0.40	0.00	0.00	0.00	0.00	6.896	0.230	0.000	0.00	0.52
45.40	(1) 1/2" Coax	No	0.40	0.00	0.00	0.00	0.00	6.896	0.230	0.000	0.00	0.06
45.40	(1) 1 1/4" Fiber	No	0.40	0.00	0.00	0.00	0.00	6.896	0.230	0.000	0.00	0.42
45.40	(14) 1 5/8" Coax	Yes	0.40	1.20	3.96	0.13	0.16	6.896	0.230	0.000	1.20	4.59
45.40	(2) 1/2" Coax	No	0.40	0.00	0.00	0.00	0.00	6.896	0.230	0.000	0.00	0.12
45.40	(2) 1/2" Coax	No	0.40	0.00	0.00	0.00	0.00	6.896	0.230	0.000	0.00	0.12
45.40	(2) 1/2" Coax	No	0.40	0.00	0.00	0.00	0.00	6.896	0.230	0.000	0.00	0.12
45.40	(4) DYWIDAG	Yes	0.40	1.20	2.50	0.08	0.10	6.896	0.230	0.000	0.76	0.00
50.00	(6) 1 5/8" Coax	Yes	4.60	1.20	1.98	0.76	0.91	7.003	0.229	0.000	7.02	22.63
50.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.76	0.00	0.000	0.000	0.000	0.00	307.28



Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:37 AM

Customer: T-MOBILE

<b>Load Case: 1.0D + 1.0W</b>	<b>Serviceability 60 mph</b>	<b>23 Iterations</b>
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

50.00	(1) 3/8" Coax	No	4.60	0.00	0.44	0.00	0.00	7.003	0.229	0.000	0.00	0.37
50.00	(1) 0.28" RG-6	No	4.60	0.00	0.00	0.00	0.00	7.003	0.229	0.000	0.00	0.13
50.00	(2) 0.65" 8 AWG 2C	No	4.60	0.00	0.00	0.00	0.00	7.003	0.229	0.000	0.00	2.85
50.00	(12) 1 1/4" Coax	No	4.60	0.00	0.00	0.00	0.00	7.003	0.229	0.000	0.00	34.77
50.00	(4) 1 1/4" Hybriflex	No	4.60	0.00	0.00	0.00	0.00	7.003	0.229	0.000	0.00	18.40
50.00	(2) 1/2" Coax	No	4.60	0.00	0.00	0.00	0.00	7.003	0.229	0.000	0.00	1.38
50.00	(1) 2" Conduit	No	4.60	0.00	0.00	0.00	0.00	7.003	0.229	0.000	0.00	16.79
50.00	(6) 5/16" Coax	No	4.60	0.00	0.00	0.00	0.00	7.003	0.229	0.000	0.00	1.24
50.00	(12) 1 5/8" Coax	No	4.60	0.00	0.00	0.00	0.00	7.003	0.229	0.000	0.00	45.26
50.00	(12) 1 5/8" Coax	No	4.60	0.00	0.00	0.00	0.00	7.003	0.229	0.000	0.00	45.26
50.00	(1) 1 5/8" Hybriflex	No	4.60	0.00	0.00	0.00	0.00	7.003	0.229	0.000	0.00	5.98
50.00	(1) 1/2" Coax	No	4.60	0.00	0.00	0.00	0.00	7.003	0.229	0.000	0.00	0.69
50.00	(1) 1 1/4" Fiber	No	4.60	0.00	0.00	0.00	0.00	7.003	0.229	0.000	0.00	4.83
50.00	(14) 1 5/8" Coax	Yes	4.60	1.20	3.96	1.52	1.82	7.003	0.229	0.000	14.03	52.80
50.00	(2) 1/2" Coax	No	4.60	0.00	0.00	0.00	0.00	7.003	0.229	0.000	0.00	1.38
50.00	(2) 1/2" Coax	No	4.60	0.00	0.00	0.00	0.00	7.003	0.229	0.000	0.00	1.38
50.00	(2) 1/2" Coax	No	4.60	0.00	0.00	0.00	0.00	7.003	0.229	0.000	0.00	1.38
50.00	(4) DYWIDAG	Yes	4.60	1.20	2.50	0.96	1.15	7.003	0.229	0.000	8.86	0.00
55.00	(6) 1 5/8" Coax	Yes	5.00	1.20	1.98	0.82	0.99	7.197	0.236	0.000	7.84	24.60
55.00	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.82	0.00	0.000	0.000	0.000	0.00	334.00
55.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	7.197	0.236	0.000	0.00	0.40
55.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	7.197	0.236	0.000	0.00	0.14
55.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	7.197	0.236	0.000	0.00	3.10
55.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	7.197	0.236	0.000	0.00	37.79
55.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	7.197	0.236	0.000	0.00	20.00
55.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	7.197	0.236	0.000	0.00	1.50
55.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	7.197	0.236	0.000	0.00	18.25
55.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	7.197	0.236	0.000	0.00	1.35
55.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	7.197	0.236	0.000	0.00	49.19
55.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	7.197	0.236	0.000	0.00	49.19
55.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	7.197	0.236	0.000	0.00	6.50
55.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	7.197	0.236	0.000	0.00	0.75
55.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	7.197	0.236	0.000	0.00	5.25
55.00	(14) 1 5/8" Coax	Yes	5.00	1.20	3.96	1.65	1.98	7.197	0.236	0.000	15.68	57.39
55.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	7.197	0.236	0.000	0.00	1.50
55.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	7.197	0.236	0.000	0.00	1.50
55.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	7.197	0.236	0.000	0.00	1.50
55.00	(4) DYWIDAG	Yes	5.00	1.20	2.50	1.04	1.25	7.197	0.236	0.000	9.90	0.00
55.68	(6) 1 5/8" Coax	Yes	0.68	1.20	1.98	0.11	0.13	7.306	0.240	0.000	1.08	3.33
55.68	#20 All Thread Bar	Yes	0.00	0.00	1.98	0.11	0.00	0.000	0.000	0.000	0.00	45.22
55.68	(1) 3/8" Coax	No	0.68	0.00	0.44	0.00	0.00	7.306	0.240	0.000	0.00	0.05
55.68	(1) 0.28" RG-6	No	0.68	0.00	0.00	0.00	0.00	7.306	0.240	0.000	0.00	0.02
55.68	(2) 0.65" 8 AWG 2C	No	0.68	0.00	0.00	0.00	0.00	7.306	0.240	0.000	0.00	0.42
55.68	(12) 1 1/4" Coax	No	0.68	0.00	0.00	0.00	0.00	7.306	0.240	0.000	0.00	5.12
55.68	(4) 1 1/4" Hybriflex	No	0.68	0.00	0.00	0.00	0.00	7.306	0.240	0.000	0.00	2.71
55.68	(2) 1/2" Coax	No	0.68	0.00	0.00	0.00	0.00	7.306	0.240	0.000	0.00	0.20
55.68	(1) 2" Conduit	No	0.68	0.00	0.00	0.00	0.00	7.306	0.240	0.000	0.00	2.47
55.68	(6) 5/16" Coax	No	0.68	0.00	0.00	0.00	0.00	7.306	0.240	0.000	0.00	0.18
55.68	(12) 1 5/8" Coax	No	0.68	0.00	0.00	0.00	0.00	7.306	0.240	0.000	0.00	6.66
55.68	(12) 1 5/8" Coax	No	0.68	0.00	0.00	0.00	0.00	7.306	0.240	0.000	0.00	6.66
55.68	(1) 1 5/8" Hybriflex	No	0.68	0.00	0.00	0.00	0.00	7.306	0.240	0.000	0.00	0.88
55.68	(1) 1/2" Coax	No	0.68	0.00	0.00	0.00	0.00	7.306	0.240	0.000	0.00	0.10
55.68	(1) 1 1/4" Fiber	No	0.68	0.00	0.00	0.00	0.00	7.306	0.240	0.000	0.00	0.71
55.68	(14) 1 5/8" Coax	Yes	0.68	1.20	3.96	0.22	0.27	7.306	0.240	0.000	2.15	7.77
55.68	(2) 1/2" Coax	No	0.68	0.00	0.00	0.00	0.00	7.306	0.240	0.000	0.00	0.20
55.68	(2) 1/2" Coax	No	0.68	0.00	0.00	0.00	0.00	7.306	0.240	0.000	0.00	0.20
55.68	(2) 1/2" Coax	No	0.68	0.00	0.00	0.00	0.00	7.306	0.240	0.000	0.00	0.20

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:37 AM

Customer: T-MOBILE

<b>Load Case: 1.0D + 1.0W</b>	<b>Serviceability 60 mph</b>	<b>23 Iterations</b>
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

55.68	(4) DYWIDAG	Yes	0.68	1.20	2.50	0.14	0.17	7.306	0.240	0.000	1.36	0.00
60.00	(6) 1 5/8" Coax	Yes	4.32	1.20	1.98	0.71	0.86	7.399	0.244	0.000	6.97	21.27
60.00	(1) 3/8" Coax	No	4.32	0.00	0.44	0.00	0.00	7.399	0.244	0.000	0.00	0.35
60.00	(1) 0.28" RG-6	No	4.32	0.00	0.00	0.00	0.00	7.399	0.244	0.000	0.00	0.12
60.00	(2) 0.65" 8 AWG 2C	No	4.32	0.00	0.00	0.00	0.00	7.399	0.244	0.000	0.00	2.68
60.00	(12) 1 1/4" Coax	No	4.32	0.00	0.00	0.00	0.00	7.399	0.244	0.000	0.00	32.68
60.00	(4) 1 1/4" Hybriflex	No	4.32	0.00	0.00	0.00	0.00	7.399	0.244	0.000	0.00	17.29
60.00	(2) 1/2" Coax	No	4.32	0.00	0.00	0.00	0.00	7.399	0.244	0.000	0.00	1.30
60.00	(1) 2" Conduit	No	4.32	0.00	0.00	0.00	0.00	7.399	0.244	0.000	0.00	15.78
60.00	(6) 5/16" Coax	No	4.32	0.00	0.00	0.00	0.00	7.399	0.244	0.000	0.00	1.17
60.00	(12) 1 5/8" Coax	No	4.32	0.00	0.00	0.00	0.00	7.399	0.244	0.000	0.00	42.53
60.00	(12) 1 5/8" Coax	No	4.32	0.00	0.00	0.00	0.00	7.399	0.244	0.000	0.00	42.53
60.00	(1) 1 5/8" Hybriflex	No	4.32	0.00	0.00	0.00	0.00	7.399	0.244	0.000	0.00	5.62
60.00	(1) 1/2" Coax	No	4.32	0.00	0.00	0.00	0.00	7.399	0.244	0.000	0.00	0.65
60.00	(1) 1 1/4" Fiber	No	4.32	0.00	0.00	0.00	0.00	7.399	0.244	0.000	0.00	4.54
60.00	(14) 1 5/8" Coax	Yes	4.32	1.20	3.96	1.43	1.71	7.399	0.244	0.000	13.93	49.62
60.00	(2) 1/2" Coax	No	4.32	0.00	0.00	0.00	0.00	7.399	0.244	0.000	0.00	1.30
60.00	(2) 1/2" Coax	No	4.32	0.00	0.00	0.00	0.00	7.399	0.244	0.000	0.00	1.30
60.00	(2) 1/2" Coax	No	4.32	0.00	0.00	0.00	0.00	7.399	0.244	0.000	0.00	1.30
60.00	(4) DYWIDAG	Yes	4.32	1.20	2.50	0.90	1.08	7.399	0.244	0.000	8.80	0.00
65.00	(6) 1 5/8" Coax	Yes	5.00	1.20	1.98	0.82	0.99	7.565	0.221	0.000	8.24	24.60
65.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	7.565	0.221	0.000	0.00	0.40
65.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	7.565	0.221	0.000	0.00	0.14
65.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	7.565	0.221	0.000	0.00	3.10
65.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	7.565	0.221	0.000	0.00	37.79
65.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	7.565	0.221	0.000	0.00	20.00
65.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	7.565	0.221	0.000	0.00	1.50
65.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	7.565	0.221	0.000	0.00	18.25
65.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	7.565	0.221	0.000	0.00	1.35
65.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	7.565	0.221	0.000	0.00	49.19
65.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	7.565	0.221	0.000	0.00	49.19
65.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	7.565	0.221	0.000	0.00	6.50
65.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	7.565	0.221	0.000	0.00	0.75
65.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	7.565	0.221	0.000	0.00	5.25
65.00	(14) 1 5/8" Coax	Yes	5.00	1.20	3.96	1.65	1.98	7.565	0.221	0.000	16.48	57.39
65.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	7.565	0.221	0.000	0.00	1.50
65.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	7.565	0.221	0.000	0.00	1.50
65.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	7.565	0.221	0.000	0.00	1.50
65.00	(4) DYWIDAG	Yes	3.00	1.20	2.50	0.63	0.75	7.565	0.221	0.000	6.24	0.00
70.00	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	7.733	0.183	1.248	0.00	24.60
70.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	7.733	0.183	1.248	0.00	0.40
70.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	7.733	0.183	1.248	0.00	0.14
70.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	7.733	0.183	1.248	0.00	3.10
70.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	7.733	0.183	1.248	0.00	37.79
70.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	7.733	0.183	1.248	0.00	20.00
70.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	7.733	0.183	1.248	0.00	1.50
70.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	7.733	0.183	1.248	0.00	18.25
70.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	7.733	0.183	1.248	0.00	1.35
70.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	7.733	0.183	1.248	0.00	49.19
70.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	7.733	0.183	1.248	0.00	49.19
70.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	7.733	0.183	1.248	0.00	6.50
70.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	7.733	0.183	1.248	0.00	0.75
70.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	7.733	0.183	1.248	0.00	5.25
70.00	(14) 1 5/8" Coax	Yes	5.00	0.00	3.96	1.65	0.00	7.733	0.183	1.248	0.00	57.39
70.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	7.733	0.183	1.248	0.00	1.50
70.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	7.733	0.183	1.248	0.00	1.50
70.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	7.733	0.183	1.248	0.00	1.50

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:38 AM

Customer: T-MOBILE

<b>Load Case: 1.0D + 1.0W</b>	<b>Serviceability 60 mph</b>	<b>23 Iterations</b>
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

75.00	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	7.893	0.189	1.267	0.00	24.60
75.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	7.893	0.189	1.267	0.00	0.40
75.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	7.893	0.189	1.267	0.00	0.14
75.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	7.893	0.189	1.267	0.00	3.10
75.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	7.893	0.189	1.267	0.00	37.79
75.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	7.893	0.189	1.267	0.00	20.00
75.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	7.893	0.189	1.267	0.00	1.50
75.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	7.893	0.189	1.267	0.00	18.25
75.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	7.893	0.189	1.267	0.00	1.35
75.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	7.893	0.189	1.267	0.00	49.19
75.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	7.893	0.189	1.267	0.00	49.19
75.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	7.893	0.189	1.267	0.00	6.50
75.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	7.893	0.189	1.267	0.00	0.75
75.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	7.893	0.189	1.267	0.00	5.25
75.00	(14) 1 5/8" Coax	Yes	5.00	0.00	3.96	1.65	0.00	7.893	0.189	1.267	0.00	57.39
75.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	7.893	0.189	1.267	0.00	1.50
75.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	7.893	0.189	1.267	0.00	1.50
80.00	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	8.044	0.196	1.288	0.00	24.60
80.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	8.044	0.196	1.288	0.00	0.40
80.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	8.044	0.196	1.288	0.00	0.14
80.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	8.044	0.196	1.288	0.00	3.10
80.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	8.044	0.196	1.288	0.00	37.79
80.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	8.044	0.196	1.288	0.00	20.00
80.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	8.044	0.196	1.288	0.00	1.50
80.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	8.044	0.196	1.288	0.00	18.25
80.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	8.044	0.196	1.288	0.00	1.35
80.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	8.044	0.196	1.288	0.00	49.19
80.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	8.044	0.196	1.288	0.00	49.19
80.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	8.044	0.196	1.288	0.00	6.50
80.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	8.044	0.196	1.288	0.00	0.75
80.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	8.044	0.196	1.288	0.00	5.25
80.00	(14) 1 5/8" Coax	Yes	5.00	0.00	3.96	1.65	0.00	8.044	0.196	1.288	0.00	57.39
80.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	8.044	0.196	1.288	0.00	1.50
80.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	8.044	0.196	1.288	0.00	1.50
80.75	(6) 1 5/8" Coax	Yes	0.75	1.20	1.98	0.12	0.15	8.129	0.200	0.000	1.33	3.68
80.75	(1) 3/8" Coax	No	0.75	0.00	0.44	0.00	0.00	8.129	0.200	0.000	0.00	0.06
80.75	(1) 0.28" RG-6	No	0.75	0.00	0.00	0.00	0.00	8.129	0.200	0.000	0.00	0.02
80.75	(2) 0.65" 8 AWG 2C	No	0.75	0.00	0.00	0.00	0.00	8.129	0.200	0.000	0.00	0.46
80.75	(12) 1 1/4" Coax	No	0.75	0.00	0.00	0.00	0.00	8.129	0.200	0.000	0.00	5.66
80.75	(4) 1 1/4" Hybriflex	No	0.75	0.00	0.00	0.00	0.00	8.129	0.200	0.000	0.00	2.99
80.75	(2) 1/2" Coax	No	0.75	0.00	0.00	0.00	0.00	8.129	0.200	0.000	0.00	0.22
80.75	(1) 2" Conduit	No	0.75	0.00	0.00	0.00	0.00	8.129	0.200	0.000	0.00	2.73
80.75	(6) 5/16" Coax	No	0.75	0.00	0.00	0.00	0.00	8.129	0.200	0.000	0.00	0.20
80.75	(12) 1 5/8" Coax	No	0.75	0.00	0.00	0.00	0.00	8.129	0.200	0.000	0.00	7.36
80.75	(12) 1 5/8" Coax	No	0.75	0.00	0.00	0.00	0.00	8.129	0.200	0.000	0.00	7.36
80.75	(1) 1 5/8" Hybriflex	No	0.75	0.00	0.00	0.00	0.00	8.129	0.200	0.000	0.00	0.97
80.75	(1) 1/2" Coax	No	0.75	0.00	0.00	0.00	0.00	8.129	0.200	0.000	0.00	0.11
80.75	(1) 1 1/4" Fiber	No	0.75	0.00	0.00	0.00	0.00	8.129	0.200	0.000	0.00	0.79
80.75	(14) 1 5/8" Coax	Yes	0.75	1.20	3.96	0.25	0.30	8.129	0.200	0.000	2.65	8.59
84.90	(6) 1 5/8" Coax	Yes	4.15	1.20	1.98	0.68	0.82	8.199	0.204	0.000	7.41	20.42
84.90	(1) 3/8" Coax	No	4.15	0.00	0.44	0.00	0.00	8.199	0.204	0.000	0.00	0.33
84.90	(1) 0.28" RG-6	No	4.15	0.00	0.00	0.00	0.00	8.199	0.204	0.000	0.00	0.12
84.90	(2) 0.65" 8 AWG 2C	No	4.15	0.00	0.00	0.00	0.00	8.199	0.204	0.000	0.00	2.57
84.90	(12) 1 1/4" Coax	No	4.15	0.00	0.00	0.00	0.00	8.199	0.204	0.000	0.00	31.38
84.90	(4) 1 1/4" Hybriflex	No	4.15	0.00	0.00	0.00	0.00	8.199	0.204	0.000	0.00	16.60
84.90	(2) 1/2" Coax	No	4.15	0.00	0.00	0.00	0.00	8.199	0.204	0.000	0.00	1.25
84.90	(1) 2" Conduit	No	4.15	0.00	0.00	0.00	0.00	8.199	0.204	0.000	0.00	15.15

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:38 AM

Customer: T-MOBILE

<b>Load Case: 1.0D + 1.0W</b>	<b>Serviceability 60 mph</b>	<b>23 Iterations</b>
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

84.90	(6) 5/16" Coax	No	4.15	0.00	0.00	0.00	0.00	8.199	0.204	0.000	0.00	1.12
84.90	(12) 1 5/8" Coax	No	4.15	0.00	0.00	0.00	0.00	8.199	0.204	0.000	0.00	40.84
84.90	(12) 1 5/8" Coax	No	4.15	0.00	0.00	0.00	0.00	8.199	0.204	0.000	0.00	40.84
84.90	(1) 1 5/8" Hybriflex	No	4.15	0.00	0.00	0.00	0.00	8.199	0.204	0.000	0.00	5.40
84.90	(1) 1/2" Coax	No	4.15	0.00	0.00	0.00	0.00	8.199	0.204	0.000	0.00	0.62
84.90	(1) 1 1/4" Fiber	No	4.15	0.00	0.00	0.00	0.00	8.199	0.204	0.000	0.00	4.36
84.90	(14) 1 5/8" Coax	Yes	4.15	1.20	3.96	1.37	1.64	8.199	0.204	0.000	14.82	47.65
85.00	(6) 1 5/8" Coax	Yes	0.10	1.20	1.98	0.02	0.02	8.258	0.204	0.000	0.18	0.49
85.00	(1) 3/8" Coax	No	0.10	0.00	0.44	0.00	0.00	8.258	0.204	0.000	0.00	0.01
85.00	(1) 0.28" RG-6	No	0.10	0.00	0.00	0.00	0.00	8.258	0.204	0.000	0.00	0.00
85.00	(2) 0.65" 8 AWG 2C	No	0.10	0.00	0.00	0.00	0.00	8.258	0.204	0.000	0.00	0.06
85.00	(12) 1 1/4" Coax	No	0.10	0.00	0.00	0.00	0.00	8.258	0.204	0.000	0.00	0.76
85.00	(4) 1 1/4" Hybriflex	No	0.10	0.00	0.00	0.00	0.00	8.258	0.204	0.000	0.00	0.40
85.00	(2) 1/2" Coax	No	0.10	0.00	0.00	0.00	0.00	8.258	0.204	0.000	0.00	0.03
85.00	(1) 2" Conduit	No	0.10	0.00	0.00	0.00	0.00	8.258	0.204	0.000	0.00	0.37
85.00	(6) 5/16" Coax	No	0.10	0.00	0.00	0.00	0.00	8.258	0.204	0.000	0.00	0.03
85.00	(12) 1 5/8" Coax	No	0.10	0.00	0.00	0.00	0.00	8.258	0.204	0.000	0.00	0.99
85.00	(12) 1 5/8" Coax	No	0.10	0.00	0.00	0.00	0.00	8.258	0.204	0.000	0.00	0.99
85.00	(1) 1 5/8" Hybriflex	No	0.10	0.00	0.00	0.00	0.00	8.258	0.204	0.000	0.00	0.13
85.00	(1) 1/2" Coax	No	0.10	0.00	0.00	0.00	0.00	8.258	0.204	0.000	0.00	0.02
85.00	(1) 1 1/4" Fiber	No	0.10	0.00	0.00	0.00	0.00	8.258	0.204	0.000	0.00	0.11
85.00	(14) 1 5/8" Coax	Yes	0.10	1.20	3.96	0.03	0.04	8.258	0.204	0.000	0.36	1.15
90.00	(6) 1 5/8" Coax	Yes	5.00	1.20	1.98	0.82	0.99	8.328	0.208	0.000	9.07	24.60
90.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	8.328	0.208	0.000	0.00	0.40
90.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	8.328	0.208	0.000	0.00	0.14
90.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	8.328	0.208	0.000	0.00	3.10
90.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	8.328	0.208	0.000	0.00	37.79
90.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	8.328	0.208	0.000	0.00	20.00
90.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	8.328	0.208	0.000	0.00	1.50
90.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	8.328	0.208	0.000	0.00	18.25
90.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	8.328	0.208	0.000	0.00	1.35
90.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	8.328	0.208	0.000	0.00	49.19
90.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	8.328	0.208	0.000	0.00	49.19
90.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	8.328	0.208	0.000	0.00	6.50
90.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	8.328	0.208	0.000	0.00	0.75
90.00	(1) 1 1/4" Fiber	No	5.00	0.00	0.00	0.00	0.00	8.328	0.208	0.000	0.00	5.25
90.00	(14) 1 5/8" Coax	Yes	5.00	1.20	3.96	1.65	1.98	8.328	0.208	0.000	18.14	57.39
95.00	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	8.462	0.072	0.000	0.00	24.60
95.00	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	8.462	0.072	0.000	0.00	0.40
95.00	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	8.462	0.072	0.000	0.00	0.14
95.00	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	8.462	0.072	0.000	0.00	3.10
95.00	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	8.462	0.072	0.000	0.00	37.79
95.00	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	8.462	0.072	0.000	0.00	20.00
95.00	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	8.462	0.072	0.000	0.00	1.50
95.00	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	8.462	0.072	0.000	0.00	18.25
95.00	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	8.462	0.072	0.000	0.00	1.35
95.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	8.462	0.072	0.000	0.00	49.19
95.00	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	8.462	0.072	0.000	0.00	49.19
95.00	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	8.462	0.072	0.000	0.00	6.50
95.00	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	8.462	0.072	0.000	0.00	0.75
100.0	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	8.590	0.075	0.000	0.00	24.60
100.0	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	8.590	0.075	0.000	0.00	0.40
100.0	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	8.590	0.075	0.000	0.00	0.14
100.0	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	8.590	0.075	0.000	0.00	3.10
100.0	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	8.590	0.075	0.000	0.00	37.79
100.0	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	8.590	0.075	0.000	0.00	20.00
100.0	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	8.590	0.075	0.000	0.00	1.50

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:38 AM

Customer: T-MOBILE

<b>Load Case: 1.0D + 1.0W</b>	<b>Serviceability 60 mph</b>										<b>23 Iterations</b>
Gust Response Factor : 1.10											Wind Importance Factor : 1.00
Dead Load Factor : 1.00											
Wind Load Factor : 1.00											

100.0	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	8.590	0.075	0.000	0.00	18.25
100.0	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	8.590	0.075	0.000	0.00	1.35
100.0	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	8.590	0.075	0.000	0.00	49.19
100.0	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	8.590	0.075	0.000	0.00	49.19
100.0	(1) 1 5/8" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	8.590	0.075	0.000	0.00	6.50
100.0	(1) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	8.590	0.075	0.000	0.00	0.75
105.0	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	8.713	0.078	0.000	0.00	24.60
105.0	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	8.713	0.078	0.000	0.00	0.40
105.0	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	8.713	0.078	0.000	0.00	0.14
105.0	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	8.713	0.078	0.000	0.00	3.10
105.0	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	8.713	0.078	0.000	0.00	37.79
105.0	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	8.713	0.078	0.000	0.00	20.00
105.0	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	8.713	0.078	0.000	0.00	1.50
105.0	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	8.713	0.078	0.000	0.00	18.25
105.0	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	8.713	0.078	0.000	0.00	1.35
105.0	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	8.713	0.078	0.000	0.00	49.19
110.0	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	8.833	0.082	0.000	0.00	24.60
110.0	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	8.833	0.082	0.000	0.00	0.40
110.0	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	8.833	0.082	0.000	0.00	0.14
110.0	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	8.833	0.082	0.000	0.00	3.10
110.0	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	8.833	0.082	0.000	0.00	37.79
110.0	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	8.833	0.082	0.000	0.00	20.00
110.0	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	8.833	0.082	0.000	0.00	1.50
110.0	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	8.833	0.082	0.000	0.00	18.25
110.0	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	8.833	0.082	0.000	0.00	1.35
110.0	(12) 1 5/8" Coax	No	5.00	0.00	0.00	0.00	0.00	8.833	0.082	0.000	0.00	49.19
115.0	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	8.948	0.086	0.000	0.00	24.60
115.0	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	8.948	0.086	0.000	0.00	0.40
115.0	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	8.948	0.086	0.000	0.00	0.14
115.0	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	8.948	0.086	0.000	0.00	3.10
115.0	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	8.948	0.086	0.000	0.00	37.79
115.0	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	8.948	0.086	0.000	0.00	20.00
115.0	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	8.948	0.086	0.000	0.00	1.50
115.0	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	8.948	0.086	0.000	0.00	18.25
115.0	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	8.948	0.086	0.000	0.00	1.35
120.0	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	9.060	0.090	0.000	0.00	24.60
120.0	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	9.060	0.090	0.000	0.00	0.40
120.0	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	9.060	0.090	0.000	0.00	0.14
120.0	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	9.060	0.090	0.000	0.00	3.10
120.0	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	9.060	0.090	0.000	0.00	37.79
120.0	(4) 1 1/4" Hybriflex	No	5.00	0.00	0.00	0.00	0.00	9.060	0.090	0.000	0.00	20.00
120.0	(2) 1/2" Coax	No	5.00	0.00	0.00	0.00	0.00	9.060	0.090	0.000	0.00	1.50
120.0	(1) 2" Conduit	No	5.00	0.00	0.00	0.00	0.00	9.060	0.090	0.000	0.00	18.25
120.0	(6) 5/16" Coax	No	5.00	0.00	0.00	0.00	0.00	9.060	0.090	0.000	0.00	1.35
125.0	(6) 1 5/8" Coax	Yes	5.00	0.00	1.98	0.82	0.00	9.169	0.095	0.000	0.00	24.60
125.0	(1) 3/8" Coax	No	5.00	0.00	0.44	0.00	0.00	9.169	0.095	0.000	0.00	0.40
125.0	(1) 0.28" RG-6	No	5.00	0.00	0.00	0.00	0.00	9.169	0.095	0.000	0.00	0.14
125.0	(2) 0.65" 8 AWG 2C	No	5.00	0.00	0.00	0.00	0.00	9.169	0.095	0.000	0.00	3.10
125.0	(12) 1 1/4" Coax	No	5.00	0.00	0.00	0.00	0.00	9.169	0.095	0.000	0.00	37.79
125.8	(6) 1 5/8" Coax	Yes	0.80	0.00	1.98	0.13	0.00	9.230	0.098	0.000	0.00	3.94
125.8	(1) 3/8" Coax	No	0.80	0.00	0.44	0.00	0.00	9.230	0.098	0.000	0.00	0.06
125.8	(1) 0.28" RG-6	No	0.80	0.00	0.00	0.00	0.00	9.230	0.098	0.000	0.00	0.02
125.8	(2) 0.65" 8 AWG 2C	No	0.80	0.00	0.00	0.00	0.00	9.230	0.098	0.000	0.00	0.50
125.8	(12) 1 1/4" Coax	No	0.80	0.00	0.00	0.00	0.00	9.230	0.098	0.000	0.00	6.05
130.0	(6) 1 5/8" Coax	Yes	4.20	0.00	1.98	0.69	0.00	9.282	0.184	1.253	0.00	20.66
130.0	(1) 3/8" Coax	No	4.20	0.00	0.44	0.00	0.00	9.282	0.184	1.253	0.00	0.34
130.0	(1) 0.28" RG-6	No	4.20	0.00	0.00	0.00	0.00	9.282	0.184	1.253	0.00	0.12

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:38 AM

Customer: T-MOBILE

**Load Case: 1.0D + 1.0W**

Serviceability 60 mph

23 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

130.0	(2) 0.65" 8 AWG 2C	No	4.20	0.00	0.00	0.00	0.00	9.282	0.184	1.253	0.00	2.60
130.0	(12) 1 1/4" Coax	No	4.20	0.00	0.00	0.00	0.00	9.282	0.184	1.253	0.00	31.74
131.0	(6) 1 5/8" Coax	Yes	1.00	0.00	1.98	0.17	0.00	9.336	0.184	1.253	0.00	4.92
131.0	(1) 3/8" Coax	No	1.00	0.00	0.44	0.00	0.00	9.336	0.184	1.253	0.00	0.08
131.0	(1) 0.28" RG-6	No	1.00	0.00	0.00	0.00	0.00	9.336	0.184	1.253	0.00	0.03
131.0	(2) 0.65" 8 AWG 2C	No	1.00	0.00	0.00	0.00	0.00	9.336	0.184	1.253	0.00	0.62
131.0	(12) 1 1/4" Coax	No	1.00	0.00	0.00	0.00	0.00	9.336	0.184	1.253	0.00	7.56
135.0	(6) 1 5/8" Coax	Yes	4.00	0.00	1.98	0.66	0.00	9.387	0.184	1.253	0.00	19.68
135.0	(1) 3/8" Coax	No	4.00	0.00	0.44	0.00	0.00	9.387	0.184	1.253	0.00	0.32
136.0	(6) 1 5/8" Coax	Yes	1.00	0.00	1.98	0.17	0.00	9.437	0.184	1.253	0.00	4.92
136.0	(1) 3/8" Coax	No	1.00	0.00	0.44	0.00	0.00	9.437	0.184	1.253	0.00	0.08
<b>Totals:</b>											<b>332.91</b>	<b>9,868.45</b>

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:39 AM

Customer: T-MOBILE

**Load Case: 1.0D + 1.0W**

**Serviceability 60 mph**

**23 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		64.7	0.0					0.0	0.0	64.7	0.0	0.0	0.0
5.00		127.8	1,055.3					0.0	613.9	127.8	1,669.3	0.0	0.0
10.00		124.7	1,029.9					0.0	613.9	124.7	1,643.8	0.0	0.0
15.00		121.6	1,004.4					0.0	613.9	121.6	1,618.3	0.0	0.0
20.00		130.2	978.9					0.0	613.9	130.2	1,592.8	0.0	0.0
25.00		138.5	953.4					28.4	613.9	166.9	1,567.3	0.0	0.0
30.00		136.4	927.9					28.4	613.9	164.8	1,541.8	0.0	0.0
35.00		137.0	902.4					29.1	613.9	166.1	1,516.4	0.0	0.0
40.00		72.3	877.0					30.3	613.9	102.6	1,490.9	0.0	0.0
40.24	Bot - Section 2	70.7	42.1					1.5	29.9	72.3	72.0	0.0	0.0
45.00		73.1	1,519.0					29.9	584.0	103.0	2,103.0	0.0	0.0
45.40	Top - Section 1	71.0	125.8					2.6	49.1	73.5	174.9	0.0	0.0
50.00		136.2	665.9					29.9	564.8	166.1	1,230.7	0.0	0.0
55.00		80.4	702.9					33.4	613.9	113.9	1,316.8	0.0	0.0
55.68	Reinf. Top	70.5	93.5					4.6	83.1	75.1	176.6	0.0	0.0
60.00		130.8	587.5					29.7	242.0	160.5	829.5	0.0	0.0
65.00		127.5	659.2					31.0	279.9	158.5	939.1	0.0	0.0
70.00	Appertunance(s)	114.4	637.3	6.5	0.0	0.0	30.6	0.0	279.9	120.9	947.8	0.0	0.0
75.00		112.7	615.5					0.0	278.4	112.7	893.9	0.0	0.0
80.00	Appertunance(s)	65.8	593.6	87.5	0.0	60.6	154.6	0.0	278.4	153.3	1,026.7	0.0	0.0
80.75	Bot - Section 3	65.4	87.0					4.0	41.2	69.4	128.2	0.0	0.0
84.90	Top - Section 2	56.8	796.3					22.2	228.7	79.1	1,025.0	0.0	0.0
85.00		66.9	7.7					0.5	5.5	67.4	13.2	0.0	0.0
90.00	Appertunance(s)	118.9	375.2	803.5	0.0	0.0	2,934.5	27.2	275.4	949.7	3,585.1	0.0	0.0
95.00		105.4	360.6					0.0	212.8	105.4	573.4	0.0	0.0
100.00	Appertunance(s)	102.6	346.1	769.5	0.0	14.4	2,448.8	0.0	212.8	872.1	3,007.6	0.0	0.0
105.00		99.6	331.5					0.0	156.3	99.6	487.8	0.0	0.0
110.00	Appertunance(s)	96.4	316.9	621.2	0.0	0.0	2,120.0	0.0	156.3	717.6	2,593.3	0.0	0.0
115.00		93.1	302.4					0.0	107.1	93.1	409.5	0.0	0.0
120.00	Appertunance(s)	89.7	287.8	857.5	0.0	0.0	3,184.5	0.0	107.1	947.1	3,579.5	0.0	0.0
125.00		50.8	273.3					0.0	66.0	50.8	339.3	0.0	0.0
125.80	Top - Section 3	20.2	42.4					0.0	10.6	20.2	53.0	0.0	0.0
130.00		16.5	174.7					0.0	55.5	16.5	230.1	0.0	0.0
131.00	Appertunance(s)	15.9	41.6	799.3	0.0	663.7	2,782.4	0.0	13.2	815.2	2,837.2	0.0	0.0
135.00		16.0	166.4					0.0	20.0	16.0	186.4	0.0	0.0
136.00	Appertunance(s)	16.0	41.6	73.2	0.0	219.5	73.5	0.0	5.0	89.2	120.1	0.0	0.0
140.00		19.3	166.4					0.0	0.0	19.3	166.4	0.0	0.0
142.00		6.4	83.2					0.0	0.0	6.4	83.2	0.0	0.0
<b>Totals:</b>										7,513.14	41,769.8	0.00	0.00

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:39 AM

Customer: T-MOBILE

**Load Case:** 1.0D + 1.0W

Serviceability 60 mph

23 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

**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	-41.77	-7.46	0.00	-677.45	0.00	677.45	4,350.13	2,175.06	7,987.32	3,944.64	0.00	0.00	0.129
5.00	-40.09	-7.36	0.00	-640.13	0.00	640.13	4,285.51	2,142.75	7,679.11	3,792.42	0.02	-0.04	0.125
10.00	-38.44	-7.27	0.00	-603.31	0.00	603.31	4,218.97	2,109.49	7,373.27	3,641.38	0.09	-0.08	0.122
15.00	-36.82	-7.17	0.00	-566.99	0.00	566.99	4,150.52	2,075.26	7,070.06	3,491.64	0.20	-0.13	0.118
20.00	-35.22	-7.06	0.00	-531.15	0.00	531.15	4,080.16	2,040.08	6,769.73	3,343.32	0.35	-0.17	0.114
25.00	-33.65	-6.91	0.00	-495.85	0.00	495.85	4,007.88	2,003.94	6,472.54	3,196.54	0.55	-0.21	0.110
30.00	-32.10	-6.76	0.00	-461.28	0.00	461.28	3,933.69	1,966.85	6,178.73	3,051.44	0.79	-0.25	0.106
35.00	-30.58	-6.61	0.00	-427.46	0.00	427.46	3,854.52	1,927.26	5,883.88	2,905.83	1.08	-0.29	0.102
40.00	-29.09	-6.51	0.00	-394.39	0.00	394.39	3,744.12	1,872.06	5,549.75	2,740.81	1.41	-0.34	0.099
40.24	-29.02	-6.45	0.00	-392.80	0.00	392.80	3,738.74	1,869.37	5,533.72	2,732.90	1.43	-0.34	0.098
45.00	-26.91	-6.35	0.00	-362.12	0.00	362.12	3,633.72	1,816.86	5,225.39	2,580.62	1.78	-0.38	0.093
45.40	-26.74	-6.28	0.00	-359.58	0.00	359.58	3,063.79	1,531.89	4,506.32	2,225.50	1.81	-0.38	0.104
50.00	-25.50	-6.12	0.00	-330.69	0.00	330.69	3,008.67	1,504.34	4,302.82	2,125.00	2.20	-0.42	0.099
55.00	-24.18	-6.01	0.00	-300.07	0.00	300.07	2,946.93	1,473.46	4,084.17	2,017.02	2.66	-0.46	0.093
55.68	-24.01	-5.94	0.00	-296.00	0.00	296.00	2,938.42	1,469.21	4,054.78	2,002.51	2.72	-0.46	0.092
55.68	-24.01	-5.94	0.00	-296.00	0.00	296.00	2,938.42	1,469.21	4,054.78	2,002.51	2.72	-0.46	0.156
60.00	-23.17	-5.80	0.00	-270.32	0.00	270.32	2,883.27	1,441.64	3,868.42	1,910.47	3.16	-0.50	0.150
65.00	-22.23	-5.65	0.00	-241.34	0.00	241.34	2,808.41	1,404.21	3,643.77	1,799.52	3.72	-0.57	0.142
70.00	-21.28	-5.55	0.00	-213.07	0.00	213.07	2,713.79	1,356.89	3,400.96	1,679.60	4.35	-0.63	0.135
75.00	-20.38	-5.45	0.00	-185.33	0.00	185.33	2,619.16	1,309.58	3,166.52	1,563.83	5.05	-0.70	0.126
80.00	-19.35	-5.29	0.00	-158.04	0.00	158.04	2,524.53	1,262.26	2,940.46	1,452.18	5.82	-0.76	0.117
80.75	-19.22	-5.23	0.00	-154.08	0.00	154.08	2,510.36	1,255.18	2,907.34	1,435.82	5.94	-0.77	0.115
84.90	-18.19	-5.15	0.00	-132.36	0.00	132.36	1,500.18	750.09	1,728.96	853.87	6.63	-0.82	0.167
85.00	-18.18	-5.09	0.00	-131.84	0.00	131.84	1,499.54	749.77	1,726.89	852.85	6.65	-0.82	0.167
90.00	-14.60	-4.11	0.00	-106.39	0.00	106.39	1,466.64	733.32	1,624.12	802.09	7.55	-0.90	0.143
95.00	-14.03	-4.01	0.00	-85.86	0.00	85.86	1,431.82	715.91	1,522.23	751.77	8.52	-0.97	0.124
100.00	-11.03	-3.09	0.00	-65.81	0.00	65.81	1,395.09	697.54	1,421.47	702.01	9.57	-1.03	0.102
105.00	-10.54	-2.99	0.00	-50.34	0.00	50.34	1,356.44	678.22	1,322.10	652.93	10.67	-1.08	0.085
110.00	-7.96	-2.23	0.00	-35.37	0.00	35.37	1,315.88	657.94	1,224.36	604.67	11.83	-1.12	0.065
115.00	-7.55	-2.14	0.00	-24.20	0.00	24.20	1,273.40	636.70	1,128.51	557.33	13.02	-1.16	0.049
120.00	-3.99	-1.12	0.00	-13.53	0.00	13.53	1,215.41	607.71	1,023.36	505.40	14.25	-1.19	0.030
125.00	-3.65	-1.06	0.00	-7.94	0.00	7.94	1,152.33	576.16	919.28	454.00	15.51	-1.20	0.021
125.80	-3.60	-1.04	0.00	-7.09	0.00	7.09	1,142.23	571.11	903.13	446.02	15.71	-1.21	0.019
125.80	-3.60	-1.04	0.00	-7.09	0.00	7.09	385.02	192.51	160.54	106.00	15.71	-1.21	0.076
130.00	-3.37	-1.02	0.00	-2.73	0.00	2.73	385.02	192.51	160.54	106.00	16.77	-1.21	0.035
131.00	-0.55	-0.14	0.00	-1.05	0.00	1.05	385.02	192.51	160.54	106.00	17.03	-1.22	0.011
135.00	-0.37	-0.12	0.00	-0.48	0.00	0.48	385.02	192.51	160.54	106.00	18.05	-1.22	0.006
136.00	-0.25	-0.03	0.00	-0.14	0.00	0.14	385.02	192.51	160.54	106.00	18.31	-1.22	0.002
140.00	-0.08	-0.01	0.00	-0.02	0.00	0.02	385.02	192.51	160.54	106.00	19.33	-1.22	0.000
142.00	0.00	-0.01	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	19.84	-1.22	0.000



---

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:39 AM

---

Customer: T-MOBILE

### Equivalent Lateral Forces Method Analysis

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

Spectral Response Acceleration for Short Period ( $S_s$ ):	0.22
Spectral Response Acceleration at 1.0 Second Period ( $S_1$ ):	0.07
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 ( $S_{ds}$ ):	0.24
Design Spectral Response Acceleration at 1.0 Second Period ( $S_{d1}$ ):	0.11
Seismic Response Coefficient ( $C_s$ ):	0.03
Upper Limit $C_s$	0.03
Lower Limit $C_s$	0.03
Period based on Rayleigh Method (sec):	2.14
Redundancy Factor (p):	1.30
Seismic Force Distribution Exponent (k):	1.82
Total Unfactored Dead Load:	41.77 k
Seismic Base Shear (E):	1.79 k

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:39 AM

Customer: T-MOBILE

### 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 ( $S_s$ ):	0.22
Spectral Response Acceleration at 1.0 Second Period ( $S_1$ ):	0.07
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 ( $S_{ds}$ ):	0.24
Design Spectral Response Acceleration at 1.0 Second Period ( $S_{d1}$ ):	0.11
Period Based on Rayleigh Method (sec):	2.14
Redundancy Factor ( $\rho$ ):	1.30

#### Load Case (1.2 + 0.2Sds) \* DL + E ELM

#### Seismic Equivalent Lateral Forces Method

Segment	Height Above Base (ft)	Weight (lb)	a	b	c	Saz	Horizontal Force (lb)	Vertical Force (lb)
37	141.00	83	1.863	1.843	1.090	0.426	31	71
36	138.00	166	1.785	1.471	0.952	0.366	53	142
35	135.50	47	1.721	1.203	0.847	0.319	13	40
34	133.00	186	1.658	0.969	0.752	0.275	44	159
33	130.50	55	1.596	0.767	0.665	0.234	11	47
32	127.90	230	1.533	0.586	0.583	0.195	39	196
31	125.40	53	1.474	0.439	0.512	0.159	7	45
30	122.50	339	1.407	0.296	0.439	0.122	36	289
29	117.50	395	1.294	0.112	0.331	0.065	22	337
28	112.50	410	1.186	-0.008	0.245	0.019	7	349
27	107.50	473	1.083	-0.079	0.177	-0.016	-6	404
26	102.50	488	0.985	-0.113	0.124	-0.040	-17	416
25	97.50	559	0.891	-0.122	0.084	-0.054	-26	477
24	92.50	573	0.802	-0.112	0.054	-0.058	-29	489
23	87.50	651	0.718	-0.092	0.033	-0.051	-29	555
22	84.95	13	0.676	-0.079	0.025	-0.044	-1	11
21	82.82	1,025	0.643	-0.068	0.020	-0.037	-33	874
20	80.37	128	0.606	-0.055	0.015	-0.027	-3	109
19	77.50	872	0.563	-0.039	0.011	-0.015	-11	744
18	72.50	894	0.493	-0.013	0.007	0.009	7	762
17	67.50	917	0.427	0.009	0.006	0.030	24	782
16	62.50	939	0.366	0.028	0.008	0.046	37	801
15	57.84	830	0.314	0.042	0.011	0.056	40	707
14	55.34	177	0.287	0.048	0.013	0.060	9	151
13	52.50	1,317	0.258	0.054	0.016	0.063	71	1,123
12	47.70	1,231	0.213	0.061	0.021	0.065	69	1,050
11	45.20	175	0.191	0.064	0.024	0.065	10	149
10	42.62	2,103	0.170	0.066	0.027	0.065	118	1,794
9	40.12	72	0.151	0.068	0.030	0.065	4	61
8	37.50	1,491	0.132	0.069	0.033	0.064	83	1,272
7	32.50	1,516	0.099	0.071	0.037	0.062	82	1,293
6	27.50	1,542	0.071	0.072	0.041	0.061	81	1,315
5	22.50	1,567	0.047	0.071	0.042	0.059	80	1,337
4	17.50	1,593	0.029	0.068	0.040	0.056	77	1,358

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:39 AM

Customer: T-MOBILE

3	12.50	1,618	0.015	0.060	0.035	0.051	71	1,380
2	7.50	1,644	0.005	0.045	0.026	0.041	58	1,402
1	2.50	1,669	0.001	0.019	0.010	0.019	28	1,424
Generic RCU (Remote	136.00	6	1.734	1.254	0.867	0.328	2	5
Kathrein Scala 742-2	136.00	68	1.734	1.254	0.867	0.328	19	58
Powerwave Allgon LGP	131.00	33	1.609	0.805	0.682	0.242	7	28
Powerwave Allgon LGP	131.00	85	1.609	0.805	0.682	0.242	18	72
Raycap DC6-48-60-18-	131.00	32	1.609	0.805	0.682	0.242	7	27
Ericsson RRUS 11 (Ba	131.00	264	1.609	0.805	0.682	0.242	55	225
Powerwave Allgon 777	131.00	210	1.609	0.805	0.682	0.242	44	179
Powerwave Allgon P65	131.00	159	1.609	0.805	0.682	0.242	33	136
Flat Platform w/ Han	131.00	2,000	1.609	0.805	0.682	0.242	420	1,706
DragonWave Horizon C	120.00	21	1.350	0.195	0.382	0.092	2	18
NextNet BTS-2500	120.00	105	1.350	0.195	0.382	0.092	8	90
Alcatel-Lucent 800 M	120.00	192	1.350	0.195	0.382	0.092	15	164
Alcatel-Lucent 1900	120.00	180	1.350	0.195	0.382	0.092	14	154
Alcatel-Lucent TD-RR	120.00	210	1.350	0.195	0.382	0.092	17	179
Argus LLPX310R	120.00	86	1.350	0.195	0.382	0.092	7	73
DragonWave A-ANT-18G	120.00	54	1.350	0.195	0.382	0.092	4	46
RFS RFS APXV9TM14-	120.00	165	1.350	0.195	0.382	0.092	13	141
RFS APXVSP18-C-A20	120.00	171	1.350	0.195	0.382	0.092	14	146
Flat Platform w/ Han	120.00	2,000	1.350	0.195	0.382	0.092	160	1,706
Swedcom ALP 9011-Din	110.00	120	1.134	-0.049	0.209	0.001	0	102
Flat Platform w/ Han	110.00	2,000	1.134	-0.049	0.209	0.001	1	1,706
RFS FD9R6004/1C-3L	100.00	19	0.937	-0.120	0.102	-0.049	-1	16
GPS	100.00	10	0.937	-0.120	0.102	-0.049	0	9
Alcatel-Lucent RRH2x	100.00	132	0.937	-0.120	0.102	-0.049	-6	113
Rym sa MGD3-800TX	100.00	46	0.937	-0.120	0.102	-0.049	-2	39
Antel BXA-171063/12C	100.00	45	0.937	-0.120	0.102	-0.049	-2	38
RFS DB-T1-6Z-8AB-0Z	100.00	44	0.937	-0.120	0.102	-0.049	-2	38
Antel BXA-70080/6CF_	100.00	54	0.937	-0.120	0.102	-0.049	-2	46
Powerwave Allgon P65	100.00	99	0.937	-0.120	0.102	-0.049	-4	84
Flat Platform w/ Han	100.00	2,000	0.937	-0.120	0.102	-0.049	-84	1,706
RFS ATMAA1412D-1A20	90.00	52	0.759	-0.103	0.043	-0.056	-3	44
Ericsson RRUS 11 B12	90.00	152	0.759	-0.103	0.043	-0.056	-7	130
Ericsson AIR 21, 1.3	90.00	332	0.759	-0.103	0.043	-0.056	-16	283
Ericsson AIR 21, 1.3	90.00	244	0.759	-0.103	0.043	-0.056	-12	209
Andrew LNX-6515DS-VT	90.00	154	0.759	-0.103	0.043	-0.056	-7	131
Flat Platform w/ Han	90.00	2,000	0.759	-0.103	0.043	-0.056	-97	1,706
Diamond X50A	80.00	5	0.600	-0.053	0.015	-0.026	0	4
6' Omni	80.00	50	0.600	-0.053	0.015	-0.026	-1	43
Stand-Offs	80.00	100	0.600	-0.053	0.015	-0.026	-2	85
PCTEL GPS-TMG-HR-	70.00	1	0.459	-0.002	0.006	0.020	0	1
Stand-Off	70.00	30	0.459	-0.002	0.006	0.020	1	26
		41,770	71.955	15.960	19.365	5.238	1,671	35,624

**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)
37	141.00	83	1.863	1.843	1.090	0.426	31	71
36	138.00	166	1.785	1.471	0.952	0.366	53	142
35	135.50	47	1.721	1.203	0.847	0.319	13	40
34	133.00	186	1.658	0.969	0.752	0.275	44	159
33	130.50	55	1.596	0.767	0.665	0.234	11	47
32	127.90	230	1.533	0.586	0.583	0.195	39	196
31	125.40	53	1.474	0.439	0.512	0.159	7	45
30	122.50	339	1.407	0.296	0.439	0.122	36	289
29	117.50	395	1.294	0.112	0.331	0.065	22	337
28	112.50	410	1.186	-0.008	0.245	0.019	7	349

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:39 AM

Customer: T-MOBILE

27	107.50	473	1.083	-0.079	0.177	-0.016	-6	404
26	102.50	488	0.985	-0.113	0.124	-0.040	-17	416
25	97.50	559	0.891	-0.122	0.084	-0.054	-26	477
24	92.50	573	0.802	-0.112	0.054	-0.058	-29	489
23	87.50	651	0.718	-0.092	0.033	-0.051	-29	555
22	84.95	13	0.676	-0.079	0.025	-0.044	-1	11
21	82.82	1,025	0.643	-0.068	0.020	-0.037	-33	874
20	80.37	128	0.606	-0.055	0.015	-0.027	-3	109
19	77.50	872	0.563	-0.039	0.011	-0.015	-11	744
18	72.50	894	0.493	-0.013	0.007	0.009	7	762
17	67.50	917	0.427	0.009	0.006	0.030	24	782
16	62.50	939	0.366	0.028	0.008	0.046	37	801
15	57.84	830	0.314	0.042	0.011	0.056	40	707
14	55.34	177	0.287	0.048	0.013	0.060	9	151
13	52.50	1,317	0.258	0.054	0.016	0.063	71	1,123
12	47.70	1,231	0.213	0.061	0.021	0.065	69	1,050
11	45.20	175	0.191	0.064	0.024	0.065	10	149
10	42.62	2,103	0.170	0.066	0.027	0.065	118	1,794
9	40.12	72	0.151	0.068	0.030	0.065	4	61
8	37.50	1,491	0.132	0.069	0.033	0.064	83	1,272
7	32.50	1,516	0.099	0.071	0.037	0.062	82	1,293
6	27.50	1,542	0.071	0.072	0.041	0.061	81	1,315
5	22.50	1,567	0.047	0.071	0.042	0.059	80	1,337
4	17.50	1,593	0.029	0.068	0.040	0.056	77	1,358
3	12.50	1,618	0.015	0.060	0.035	0.051	71	1,380
2	7.50	1,644	0.005	0.045	0.026	0.041	58	1,402
1	2.50	1,669	0.001	0.019	0.010	0.019	28	1,424
Generic RCU (Remote	136.00	6	1.734	1.254	0.867	0.328	2	5
Kathrein Scala 742-2	136.00	68	1.734	1.254	0.867	0.328	19	58
Powerwave Allgon LGP	131.00	33	1.609	0.805	0.682	0.242	7	28
Powerwave Allgon LGP	131.00	85	1.609	0.805	0.682	0.242	18	72
Raycap DC6-48-60-18-	131.00	32	1.609	0.805	0.682	0.242	7	27
Ericsson RRUS 11 (Ba	131.00	264	1.609	0.805	0.682	0.242	55	225
Powerwave Allgon 777	131.00	210	1.609	0.805	0.682	0.242	44	179
Powerwave Allgon P65	131.00	159	1.609	0.805	0.682	0.242	33	136
Flat Platform w/ Han	131.00	2,000	1.609	0.805	0.682	0.242	420	1,706
DragonWave Horizon C	120.00	21	1.350	0.195	0.382	0.092	2	18
NextNet BTS-2500	120.00	105	1.350	0.195	0.382	0.092	8	90
Alcatel-Lucent 800 M	120.00	192	1.350	0.195	0.382	0.092	15	164
Alcatel-Lucent 1900	120.00	180	1.350	0.195	0.382	0.092	14	154
Alcatel-Lucent TD-RR	120.00	210	1.350	0.195	0.382	0.092	17	179
Argus LLPX310R	120.00	86	1.350	0.195	0.382	0.092	7	73
DragonWave A-ANT-18G	120.00	54	1.350	0.195	0.382	0.092	4	46
RFS RFS APXV9TM14-	120.00	165	1.350	0.195	0.382	0.092	13	141
RFS APXVSP18-C-A20	120.00	171	1.350	0.195	0.382	0.092	14	146
Flat Platform w/ Han	120.00	2,000	1.350	0.195	0.382	0.092	160	1,706
Swedcom ALP 9011-Din	110.00	120	1.134	-0.049	0.209	0.001	0	102
Flat Platform w/ Han	110.00	2,000	1.134	-0.049	0.209	0.001	1	1,706
RFS FD9R6004/1C-3L	100.00	19	0.937	-0.120	0.102	-0.049	-1	16
GPS	100.00	10	0.937	-0.120	0.102	-0.049	0	9
Alcatel-Lucent RRH2x	100.00	132	0.937	-0.120	0.102	-0.049	-6	113
Ryma MGD3-800TX	100.00	46	0.937	-0.120	0.102	-0.049	-2	39
Antel BXA-171063/12C	100.00	45	0.937	-0.120	0.102	-0.049	-2	38
RFS DB-T1-6Z-8AB-0Z	100.00	44	0.937	-0.120	0.102	-0.049	-2	38
Antel BXA-70080/6CF_	100.00	54	0.937	-0.120	0.102	-0.049	-2	46
Powerwave Allgon P65	100.00	99	0.937	-0.120	0.102	-0.049	-4	84
Flat Platform w/ Han	100.00	2,000	0.937	-0.120	0.102	-0.049	-84	1,706
RFS ATMAA1412D-1A20	90.00	52	0.759	-0.103	0.043	-0.056	-3	44
Ericsson RRUS 11 B12	90.00	152	0.759	-0.103	0.043	-0.056	-7	130
Ericsson AIR 21, 1.3	90.00	332	0.759	-0.103	0.043	-0.056	-16	283
Ericsson AIR 21, 1.3	90.00	244	0.759	-0.103	0.043	-0.056	-12	209
Andrew LNX-6515DS-VT	90.00	154	0.759	-0.103	0.043	-0.056	-7	131
Flat Platform w/ Han	90.00	2,000	0.759	-0.103	0.043	-0.056	-97	1,706
Diamond X50A	80.00	5	0.600	-0.053	0.015	-0.026	0	4

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:39 AM

Customer: T-MOBILE

6' Omni	80.00	50	0.600	-0.053	0.015	-0.026	-1	43
Stand-Offs	80.00	100	0.600	-0.053	0.015	-0.026	-2	85
PCTEL GPS-TMG-HR-	70.00	1	0.459	-0.002	0.006	0.020	0	1
Stand-Off	70.00	30	0.459	-0.002	0.006	0.020	1	26
		41,770	71.955	15.960	19.365	5.238	1,671	35,624

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

**Seismic (Reduced DL) Equivalent Lateral Forces Method**

Segment	Height Above Base (ft)	Weight (lb)	a	b	c	Saz	Horizontal Force (lb)	Vertical Force (lb)
37	141.00	83	1.863	1.843	1.090	0.426	31	71
36	138.00	166	1.785	1.471	0.952	0.366	53	142
35	135.50	47	1.721	1.203	0.847	0.319	13	40
34	133.00	186	1.658	0.969	0.752	0.275	44	159
33	130.50	55	1.596	0.767	0.665	0.234	11	47
32	127.90	230	1.533	0.586	0.583	0.195	39	196
31	125.40	53	1.474	0.439	0.512	0.159	7	45
30	122.50	339	1.407	0.296	0.439	0.122	36	289
29	117.50	395	1.294	0.112	0.331	0.065	22	337
28	112.50	410	1.186	-0.008	0.245	0.019	7	349
27	107.50	473	1.083	-0.079	0.177	-0.016	-6	404
26	102.50	488	0.985	-0.113	0.124	-0.040	-17	416
25	97.50	559	0.891	-0.122	0.084	-0.054	-26	477
24	92.50	573	0.802	-0.112	0.054	-0.058	-29	489
23	87.50	651	0.718	-0.092	0.033	-0.051	-29	555
22	84.95	13	0.676	-0.079	0.025	-0.044	-1	11
21	82.82	1,025	0.643	-0.068	0.020	-0.037	-33	874
20	80.37	128	0.606	-0.055	0.015	-0.027	-3	109
19	77.50	872	0.563	-0.039	0.011	-0.015	-11	744
18	72.50	894	0.493	-0.013	0.007	0.009	7	762
17	67.50	917	0.427	0.009	0.006	0.030	24	782
16	62.50	939	0.366	0.028	0.008	0.046	37	801
15	57.84	830	0.314	0.042	0.011	0.056	40	707
14	55.34	177	0.287	0.048	0.013	0.060	9	151
13	52.50	1,317	0.258	0.054	0.016	0.063	71	1,123
12	47.70	1,231	0.213	0.061	0.021	0.065	69	1,050
11	45.20	175	0.191	0.064	0.024	0.065	10	149
10	42.62	2,103	0.170	0.066	0.027	0.065	118	1,794
9	40.12	72	0.151	0.068	0.030	0.065	4	61
8	37.50	1,491	0.132	0.069	0.033	0.064	83	1,272
7	32.50	1,516	0.099	0.071	0.037	0.062	82	1,293
6	27.50	1,542	0.071	0.072	0.041	0.061	81	1,315
5	22.50	1,567	0.047	0.071	0.042	0.059	80	1,337
4	17.50	1,593	0.029	0.068	0.040	0.056	77	1,358
3	12.50	1,618	0.015	0.060	0.035	0.051	71	1,380
2	7.50	1,644	0.005	0.045	0.026	0.041	58	1,402
1	2.50	1,669	0.001	0.019	0.010	0.019	28	1,424
Generic RCU (Remote	136.00	6	1.734	1.254	0.867	0.328	2	5
Kathrein Scala 742-2	136.00	68	1.734	1.254	0.867	0.328	19	58
Powerwave Allgon LGP	131.00	33	1.609	0.805	0.682	0.242	7	28
Powerwave Allgon LGP	131.00	85	1.609	0.805	0.682	0.242	18	72
Raycap DC6-48-60-18-	131.00	32	1.609	0.805	0.682	0.242	7	27
Ericsson RRUS 11 (Ba	131.00	264	1.609	0.805	0.682	0.242	55	225
Powerwave Allgon 777	131.00	210	1.609	0.805	0.682	0.242	44	179
Powerwave Allgon P65	131.00	159	1.609	0.805	0.682	0.242	33	136
Flat Platform w/ Han	131.00	2,000	1.609	0.805	0.682	0.242	420	1,706
DragonWave Horizon C	120.00	21	1.350	0.195	0.382	0.092	2	18
NextNet BTS-2500	120.00	105	1.350	0.195	0.382	0.092	8	90
Alcatel-Lucent 800 M	120.00	192	1.350	0.195	0.382	0.092	15	164
Alcatel-Lucent 1900	120.00	180	1.350	0.195	0.382	0.092	14	154

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:39 AM

Customer: T-MOBILE

Alcatel-Lucent TD-RR	120.00	210	1.350	0.195	0.382	0.092	17	179
Argus LLPX310R	120.00	86	1.350	0.195	0.382	0.092	7	73
DragonWave A-ANT-18G	120.00	54	1.350	0.195	0.382	0.092	4	46
RFS RFS APXV9TM14-	120.00	165	1.350	0.195	0.382	0.092	13	141
RFS APXVSP18-C-A20	120.00	171	1.350	0.195	0.382	0.092	14	146
Flat Platform w/ Han	120.00	2,000	1.350	0.195	0.382	0.092	160	1,706
Swedcom ALP 9011-Din	110.00	120	1.134	-0.049	0.209	0.001	0	102
Flat Platform w/ Han	110.00	2,000	1.134	-0.049	0.209	0.001	1	1,706
RFS FD9R6004/1C-3L	100.00	19	0.937	-0.120	0.102	-0.049	-1	16
GPS	100.00	10	0.937	-0.120	0.102	-0.049	0	9
Alcatel-Lucent RRH2x	100.00	132	0.937	-0.120	0.102	-0.049	-6	113
Ryma MGD3-800TX	100.00	46	0.937	-0.120	0.102	-0.049	-2	39
Antel BXA-171063/12C	100.00	45	0.937	-0.120	0.102	-0.049	-2	38
RFS DB-T1-6Z-8AB-0Z	100.00	44	0.937	-0.120	0.102	-0.049	-2	38
Antel BXA-70080/6CF_	100.00	54	0.937	-0.120	0.102	-0.049	-2	46
Powerwave Allgon P65	100.00	99	0.937	-0.120	0.102	-0.049	-4	84
Flat Platform w/ Han	100.00	2,000	0.937	-0.120	0.102	-0.049	-84	1,706
RFS ATMAA1412D-1A20	90.00	52	0.759	-0.103	0.043	-0.056	-3	44
Ericsson RRUS 11 B12	90.00	152	0.759	-0.103	0.043	-0.056	-7	130
Ericsson AIR 21, 1.3	90.00	332	0.759	-0.103	0.043	-0.056	-16	283
Ericsson AIR 21, 1.3	90.00	244	0.759	-0.103	0.043	-0.056	-12	209
Andrew LNX-6515DS-VT	90.00	154	0.759	-0.103	0.043	-0.056	-7	131
Flat Platform w/ Han	90.00	2,000	0.759	-0.103	0.043	-0.056	-97	1,706
Diamond X50A	80.00	5	0.600	-0.053	0.015	-0.026	0	4
6' Omni	80.00	50	0.600	-0.053	0.015	-0.026	-1	43
Stand-Offs	80.00	100	0.600	-0.053	0.015	-0.026	-2	85
PCTEL GPS-TMG-HR-	70.00	1	0.459	-0.002	0.006	0.020	0	1
Stand-Off	70.00	30	0.459	-0.002	0.006	0.020	1	26
		41,770	71.955	15.960	19.365	5.238	1,671	35,624

**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)
37	141.00	83	1.863	1.843	1.090	0.426	31	71
36	138.00	166	1.785	1.471	0.952	0.366	53	142
35	135.50	47	1.721	1.203	0.847	0.319	13	40
34	133.00	186	1.658	0.969	0.752	0.275	44	159
33	130.50	55	1.596	0.767	0.665	0.234	11	47
32	127.90	230	1.533	0.586	0.583	0.195	39	196
31	125.40	53	1.474	0.439	0.512	0.159	7	45
30	122.50	339	1.407	0.296	0.439	0.122	36	289
29	117.50	395	1.294	0.112	0.331	0.065	22	337
28	112.50	410	1.186	-0.008	0.245	0.019	7	349
27	107.50	473	1.083	-0.079	0.177	-0.016	-6	404
26	102.50	488	0.985	-0.113	0.124	-0.040	-17	416
25	97.50	559	0.891	-0.122	0.084	-0.054	-26	477
24	92.50	573	0.802	-0.112	0.054	-0.058	-29	489
23	87.50	651	0.718	-0.092	0.033	-0.051	-29	555
22	84.95	13	0.676	-0.079	0.025	-0.044	-1	11
21	82.82	1,025	0.643	-0.068	0.020	-0.037	-33	874
20	80.37	128	0.606	-0.055	0.015	-0.027	-3	109
19	77.50	872	0.563	-0.039	0.011	-0.015	-11	744
18	72.50	894	0.493	-0.013	0.007	0.009	7	762
17	67.50	917	0.427	0.009	0.006	0.030	24	782
16	62.50	939	0.366	0.028	0.008	0.046	37	801
15	57.84	830	0.314	0.042	0.011	0.056	40	707
14	55.34	177	0.287	0.048	0.013	0.060	9	151
13	52.50	1,317	0.258	0.054	0.016	0.063	71	1,123
12	47.70	1,231	0.213	0.061	0.021	0.065	69	1,050

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:39 AM

Customer: T-MOBILE

11	45.20	175	0.191	0.064	0.024	0.065	10	149
10	42.62	2,103	0.170	0.066	0.027	0.065	118	1,794
9	40.12	72	0.151	0.068	0.030	0.065	4	61
8	37.50	1,491	0.132	0.069	0.033	0.064	83	1,272
7	32.50	1,516	0.099	0.071	0.037	0.062	82	1,293
6	27.50	1,542	0.071	0.072	0.041	0.061	81	1,315
5	22.50	1,567	0.047	0.071	0.042	0.059	80	1,337
4	17.50	1,593	0.029	0.068	0.040	0.056	77	1,358
3	12.50	1,618	0.015	0.060	0.035	0.051	71	1,380
2	7.50	1,644	0.005	0.045	0.026	0.041	58	1,402
1	2.50	1,669	0.001	0.019	0.010	0.019	28	1,424
Generic RCU (Remote	136.00	6	1.734	1.254	0.867	0.328	2	5
Kathrein Scala 742-2	136.00	68	1.734	1.254	0.867	0.328	19	58
Powerwave Allgon LGP	131.00	33	1.609	0.805	0.682	0.242	7	28
Powerwave Allgon LGP	131.00	85	1.609	0.805	0.682	0.242	18	72
Raycap DC6-48-60-18-	131.00	32	1.609	0.805	0.682	0.242	7	27
Ericsson RRUS 11 (Ba	131.00	264	1.609	0.805	0.682	0.242	55	225
Powerwave Allgon 777	131.00	210	1.609	0.805	0.682	0.242	44	179
Powerwave Allgon P65	131.00	159	1.609	0.805	0.682	0.242	33	136
Flat Platform w/ Han	131.00	2,000	1.609	0.805	0.682	0.242	420	1,706
DragonWave Horizon C	120.00	21	1.350	0.195	0.382	0.092	2	18
NextNet BTS-2500	120.00	105	1.350	0.195	0.382	0.092	8	90
Alcatel-Lucent 800 M	120.00	192	1.350	0.195	0.382	0.092	15	164
Alcatel-Lucent 1900	120.00	180	1.350	0.195	0.382	0.092	14	154
Alcatel-Lucent TD-RR	120.00	210	1.350	0.195	0.382	0.092	17	179
Argus LLPX310R	120.00	86	1.350	0.195	0.382	0.092	7	73
DragonWave A-ANT-18G	120.00	54	1.350	0.195	0.382	0.092	4	46
RFS RFS APXV9TM14-	120.00	165	1.350	0.195	0.382	0.092	13	141
RFS APXVSP18-C-A20	120.00	171	1.350	0.195	0.382	0.092	14	146
Flat Platform w/ Han	120.00	2,000	1.350	0.195	0.382	0.092	160	1,706
Swedcom ALP 9011-Din	110.00	120	1.134	-0.049	0.209	0.001	0	102
Flat Platform w/ Han	110.00	2,000	1.134	-0.049	0.209	0.001	1	1,706
RFS FD9R6004/1C-3L	100.00	19	0.937	-0.120	0.102	-0.049	-1	16
GPS	100.00	10	0.937	-0.120	0.102	-0.049	0	9
Alcatel-Lucent RRH2x	100.00	132	0.937	-0.120	0.102	-0.049	-6	113
Rym sa MGD3-800TX	100.00	46	0.937	-0.120	0.102	-0.049	-2	39
Antel BXA-171063/12C	100.00	45	0.937	-0.120	0.102	-0.049	-2	38
RFS DB-T1-6Z-8AB-OZ	100.00	44	0.937	-0.120	0.102	-0.049	-2	38
Antel BXA-70080/6CF_	100.00	54	0.937	-0.120	0.102	-0.049	-2	46
Powerwave Allgon P65	100.00	99	0.937	-0.120	0.102	-0.049	-4	84
Flat Platform w/ Han	100.00	2,000	0.937	-0.120	0.102	-0.049	-84	1,706
RFS ATMAA1412D-1A20	90.00	52	0.759	-0.103	0.043	-0.056	-3	44
Ericsson RRUS 11 B12	90.00	152	0.759	-0.103	0.043	-0.056	-7	130
Ericsson AIR 21, 1.3	90.00	332	0.759	-0.103	0.043	-0.056	-16	283
Ericsson AIR 21, 1.3	90.00	244	0.759	-0.103	0.043	-0.056	-12	209
Andrew LNX-6515DS-VT	90.00	154	0.759	-0.103	0.043	-0.056	-7	131
Flat Platform w/ Han	90.00	2,000	0.759	-0.103	0.043	-0.056	-97	1,706
Diamond X50A	80.00	5	0.600	-0.053	0.015	-0.026	0	4
6' Omni	80.00	50	0.600	-0.053	0.015	-0.026	-1	43
Stand-Offs	80.00	100	0.600	-0.053	0.015	-0.026	-2	85
PCTEL GPS-TMG-HR-	70.00	1	0.459	-0.002	0.006	0.020	0	1
Stand-Off	70.00	30	0.459	-0.002	0.006	0.020	1	26
		41,770	71.955	15.960	19.365	5.238	1,671	35,624

Site Number: 302511

Code: ANSI/TIA-222-G

© 2007 - 2016 by ATC IP LLC. All rights reserved.

Site Name: WSPT - South, CT

Engineering Number: 63916524

1/25/2016 11:02:39 AM

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	41.26	0.00	50.04	0.00	0.00	3705.43	84.90	0.86
0.9D + 1.6W	40.03	0.00	37.51	0.00	0.00	3613.52	84.90	0.83
1.2D + 1.0Di + 1.0Wi	6.95	0.00	82.17	0.00	0.00	668.08	84.90	0.19
(1.2 + 0.2Sds) * DL + E ELFM	1.79	0.00	50.01	0.00	0.00	191.30	84.90	0.07
(1.2 + 0.2Sds) * DL + E EMAM	1.65	0.00	50.01	0.00	0.00	143.62	84.90	0.07
(0.9 - 0.2Sds) * DL + E ELFM	1.79	0.00	34.20	0.00	0.00	188.67	84.90	0.06
(0.9 - 0.2Sds) * DL + E EMAM	1.64	0.00	34.20	0.00	0.00	141.46	84.90	0.07
1.0D + 1.0W	7.46	0.00	41.77	0.00	0.00	677.45	84.90	0.17

**Additional Steel Summary**

Elev From (ft)	Elev To (ft)	Member	Intermediate Connectors			Upper Termination Connectors				Lower Termination Connectors				Max Member		
			VQ/I (lb/in)	Shear Applied (kips)	Shear 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
0.00	55.6	(4) SOL-#20 All Thre	331.2	9.9	16.8	195.7	12.0	17	22	0.0	12.0	0	0	254.4	330.5	0.770



<b>Base/Flange Plate</b>	Plate Type	<b>Baseplate</b>
	Pole Diameter	45 in
	Pole Thickness	0.4375 in
	Plate Diameter	60 in
	Plate Thickness	2 in
	Plate Fy	60 ksi
	Weld Length	0.25 in
	$\phi_s$ Resistance	942.65 k-in
Applied	429.71 k-in	
<b>Stiffeners</b>	#	<b>16</b> <i>Show</i>
	Thickness	0.5 in
	Length	4 in
	Height	10 in
	Chamfer	0 in
	Offset Angle	0°
	Fy	36 ksi

Code Rev. **G**

Date 1/25/2016  
 Engineer S. Shanbhogue  
 Site # 302511  
 Carrier T-Mobile

Moment 3705.4 k-ft  
 Axial 50.0 k

<b>Bolts</b>	#	<b>16</b>
	Bolt Circle (R)adial / (S)quare	54 in R
	Diameter	2.25 in
	Hole Diameter	2.625 in
	Type	18J
	Fy	75 ksi
	Fu	100 ksi
	$\phi_s$ Resistance	259.82 k
Applied	146.28 k	
<b>Reinforcement</b>	#	<b>4</b>
	DYW. Circle	52 in
	Offset Angle	11.25°
	Type	#20
	Diameter	2.5 in
	Fu	100 ksi
$\phi_s$ Resistance	392.70 k	
Applied	254.74 k	
<b>Extra Bolts O</b>	#	<b>0</b>

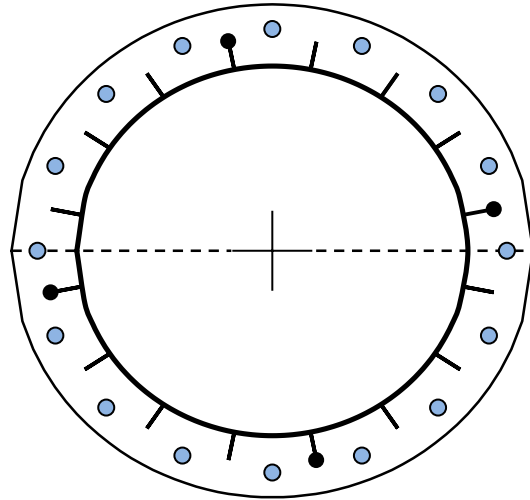


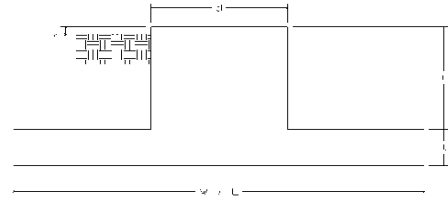
Plate Stress Ratio:  
**0.46** (Pass)

Bolt Stress Ratio:  
**0.56** (Pass)

Reinforcement Stress Ratio:  
**0.65** (Pass)

Site Name: WSPT - South, CT, CT  
 Site Number: 302511  
 Engineering Number: 63916524  
 Engineer: S Shanbhogue  
 Date: 01/25/16  
 Tower Type: MP

Program Last Updated: 5/13/2014



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

Design / Analysis / Mapping:

	Analysis
Compression/Leg:	0.0 k
Uplift/Leg:	0.0 k
Total Shear:	41.3 k
Moment:	3705.4 k-ft
Tower + Appurtenance Weight:	50.0 k
Depth to Base of Foundation (l + t - h):	7.00 ft
Diameter of Pier (d):	7.33 ft
Height of Pier above Ground (h):	0.50
Width of Pad (W):	22.50 ft
Length of Pad (L):	26.50 ft
Thickness of Pad (t):	4.00 ft
Tower Leg Center to Center:	0.00 ft
Number of Tower Legs:	1.0 (1 if MP or GT)
Tower Center from Mat Center:	2.00 ft
Depth Below Ground Surface to Water Table:	9.50 ft
Unit Weight of Concrete:	150.0 pcf
Unit Weight of Soil Above Water Table:	120.0 pcf
Unit Weight of Water:	62.4 pcf
Unit Weight of Soil Below Water Table:	60.0 pcf
Friction Angle of Uplift:	15.0 Degrees
Ultimate Coefficient of Shear Friction:	0.35
Ultimate Compressive Bearing Pressure:	20000.0 psf
Ultimate Passive Pressure on Pad Face:	500.0 psf
$\phi_{\text{Soil and Concrete Weight}}$ :	0.9
$\phi_{\text{Soil}}$ :	0.75

Concrete Strength ( $f'_c$ ):	4000 psi
Pad Tension Steel Depth:	44.00 in
$\phi_{\text{Shear}}$ :	0.75
$\phi_{\text{Flexure / Tension}}$ :	0.90
$\phi_{\text{Compression}}$ :	0.65
$\beta$ :	0.85
Bottom Pad Rebar Size #:	10
# of Bottom Pad Rebar:	40
Pad Bottom Steel Area:	50.80 in <sup>2</sup>
Pad Steel $F_y$ :	60000 psi
Top Pad Rebar Size #:	5
# of Top Pad Rebar:	40
Pad Top Steel Area:	12.40 in <sup>2</sup>
Pier Rebar Size #:	11
Pier Steel Area (Single Bar):	1.56 in <sup>2</sup>
# of Pier Rebar:	52
Pier Steel $F_y$ :	60000 psi
Pier Cage Diameter:	80.0 in
Rebar Strain Limit:	0.008
Steel Elastic Modulus:	29000 ksi
Tie Rebar Size #:	4
Tie Steel Area (Single Bar):	0.20 in <sup>2</sup>
Tie Spacing:	12 in
Tie Steel $F_y$ :	60000 psi

**Overturing Moment Usage**

Design OTM:	4115.0 k-ft
OTM Resistance:	6733.5 k-ft
Design OTM / OTM Resistance:	0.61 Result: OK

**Soil Bearing Pressure Usage**

Net Bearing Pressure:	3039 psf
Factored Nominal Bearing Pressure:	15000 psf
Net Bearing Pressure/Factored Nominal Bearing Pressure:	0.20 Result: OK
Load Direction Controlling Design Bearing Pressure:	Diagonal to Pad Edge

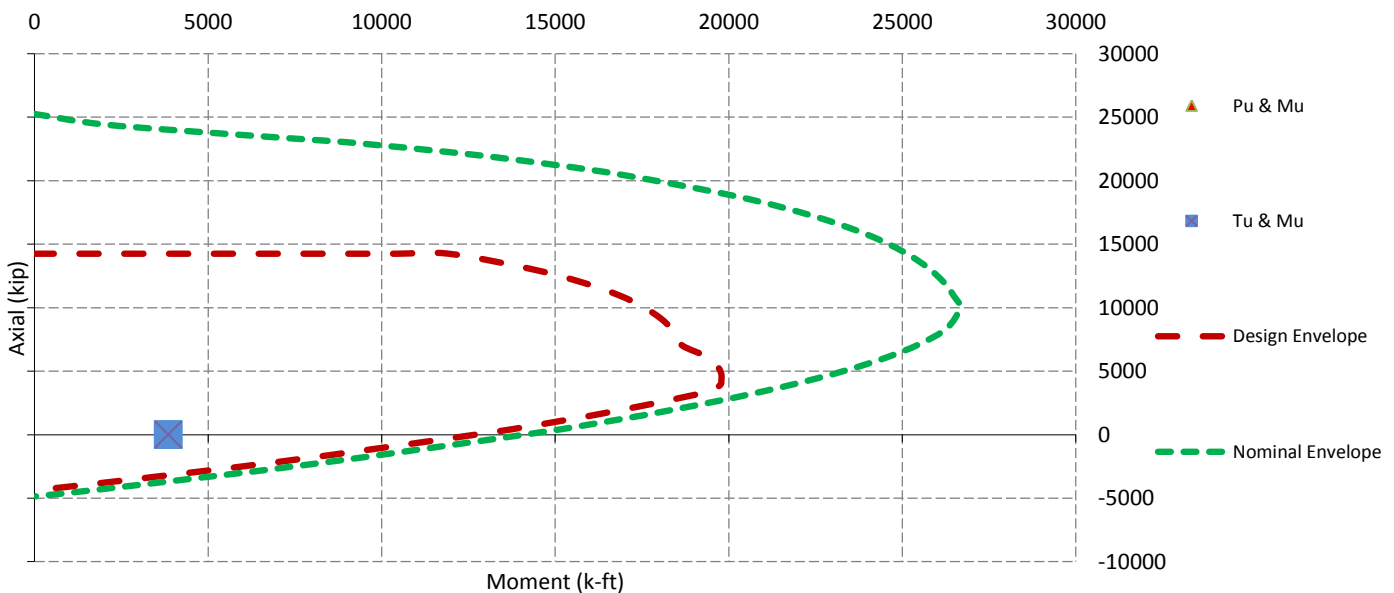
**Sliding Factor of Safety**

Total Factored Sliding Resistance:	198.8 k
Sliding Design / Sliding Resistance:	0.21 Result: OK

## One Way Shear, Flexural Capacity, and Punching Shear

Factored One Way Shear ( $V_u$ ):	150.8 k
One Way Shear Capacity ( $\phi V_c$ ):	859.4 k - ACI11.3.1.1
$V_u / \phi V_c$ :	0.18 Result: OK
Load Direction Controlling Shear Capacity:	Diagonal to Pad Edge
Lower Steel Pad Factored Moment ( $M_u$ ):	1211.5 k-ft
Lower Steel Pad Moment Capacity ( $\phi M_n$ ):	8951.4 k-ft - ACI10.3
$M_u / \phi M_n$ :	0.14 Result: OK
Load Direction Controlling Flexural Capacity:	Diagonal to Pad Edge
Upper Steel Pad Factored Moment ( $M_u$ ):	960.3 k-ft
Upper Steel Pad Moment Capacity ( $\phi M_n$ ):	2438.9 k-ft
$M_u / \phi M_n$ :	0.39 Result: OK
Lower Pad Flexural Reinforcement Ratio:	0.0036 OK - Minimum Reinforcement Ratio Met - ACI10.5.1
Upper Pad Flexural Reinforcement Ratio:	0.0009 OK - Minimum Reinforcement Ratio Met - ACI10.5.1
Lower Pad Reinforcement Spacing:	8 in - Pad Reinforcing Spacing OK - ACI7.12.2.2 & 10.5.4
Upper Pad Reinforcement Spacing:	8 in - Pad Reinforcing Spacing OK - ACI7.12.2.2 & 10.5.4
Factored Punching Shear ( $V_u$ ):	0.0 k
Nominal Punching Shear Capacity ( $\phi_c V_n$ ):	3461.0 k - ACI11.12.2.1
$V_u / \phi V_c$ :	0.00 Result: OK
Factored Moment in Pier ( $M_u$ ):	3849.8 k-ft
Pier Moment Capacity ( $\phi M_n$ ):	14271.9 k-ft
$M_u / \phi M_n$ :	0.27 Result: OK
Factored Shear in Pier ( $V_u$ ):	41.3 k
Pier Shear Capacity ( $\phi V_n$ ):	576.5 k
$V_u / \phi V_c$ :	0.07 Result: OK
Pier Shear Reinforcement Ratio:	0.0003 No Ties Necessary for Shear - ACI11.5.6.1
Factored Tension in Pier ( $T_u$ ):	0.0 k
Pier Tension Capacity ( $\phi T_n$ ):	4380.5 k
$T_u / \phi T_n$ :	0.00 Result: OK
Factored Compression in Pier ( $P_u$ ):	0.0 k
Pier Compression Capacity ( $\phi P_n$ ):	10600.0 k - ACI10.3.6.2
$P_u / \phi P_n$ :	0.00 Result: OK
Pier Compression Reinforcement Ratio:	0.013 OK - Reinforcement Ratio Met - ACI10.9.1 & 10.8.4
$M_u / \phi_B M_n + T_u / \phi_T T_n$ :	0.27 Result: OK

Nominal and Design Moment Capacity and Factored Design Loads



**DOCKET NO. 166** - An application of Springwich Cellular Limited Partnership for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance, and operation of a cellular telecommunications facility approximately 250 feet west of Maple Lane, approximately 850 feet west of Maple Lane, or approximately 750 feet west of New Creek Road in the Town of Westport, Connecticut.

### **Connecticut Siting Council**

August 29, 1995

### **DECISION AND ORDER**

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a cellular telecommunications tower and equipment building at the proposed first alternate site in Westport, Connecticut, including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate either alone or cumulatively with other effects when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to Springwich Cellular Limited Partnership (Springwich), for the construction, operation, and maintenance of a cellular telecommunications tower, associated equipment, and building at the proposed first alternate site, located approximately 850 feet west of Maple Lane, Westport, Connecticut. We find the effects on scenic resources and adjacent land uses of the second alternate site to be significant and the prime site does not provide full coverage to Interstate 95, and therefore deny certification of these sites.

The facility shall be constructed, operated, and maintained substantially as specified in the Council's record in this matter, and subject to the following conditions:

1. The self-supporting monopole tower shall be no taller than necessary to provide the proposed communications service and the tower shall not exceed a total height of 130 feet above ground level (AGL).
2. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be submitted to and approved by the Council prior to the commencement of facility construction and shall include detailed plans for the tower location and tower foundation; the placement of all antennas to be attached to this tower; plans for the equipment building and security fence; plans for the access road and utility line installation from Post Office Lane; plans for site clearing and tree trimming; plans for water drainage and erosion and sedimentation controls consistent with the Connecticut Guidelines for Soil Erosion and Sediment Control, as amended; and demarcation of wetlands with conditions that the building and tower shall be 65 feet or more from the wetland, and all grading and other disturbances shall be 25 feet or more from the wetland. No setback restrictions shall apply to the existing access road.
3. Upon the establishment of any new State or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.

4. The Certificate Holder shall provide the Council a recalculated report of electromagnetic radio frequency power density if and when circumstances in operation cause a change in power density above the levels originally calculated and provided in the application.

5. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.

6. If the facility does not initially provide, or permanently ceases to provide cellular services following completion of construction, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapplication for any continued or new use shall be made to the Council before any such use is made.

7. Unless otherwise approved by the Council, this Decision and Order shall be void if all construction authorized herein is not completed within three years of the effective date of this Decision and Order or within three years after all appeals to this Decision and Order have been resolved.

8. The Certificate Holder shall notify the Council upon completion of construction and provide the final cost to construct the facility.

Pursuant to General Statutes § 16-50p, we hereby direct that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in The Connecticut Post, The Hour, and the Westport News.

By this Decision and Order, the Council disposes of the legal rights, duties, and privileges of each party named or admitted to the proceeding in accordance with Section 16-50j-17 of the Regulations of Connecticut State Agencies.

The parties and intervenors to this proceeding are:

**APPLICANT**

Springwich Cellular Limited Partnership

**ITS REPRESENTATIVE**

Peter J. Tyrrell, Esq.

Springwich Cellular Limited Partnership

227 Church Street

New Haven, CT 06510

**PARTY**

Town of Westport

**ITS REPRESENTATIVE**

Joseph A. Arcudi

First Selectman

Town of Westport, Town Hall

110 Myrtle Avenue

Westport, CT 06880

**INTERVENORS**

Bell Atlantic NYNEX Mobile, Inc.

**ITS REPRESENTATIVES**

Kenneth C. Baldwin, Esq.

Robinson & Cole

One Commercial Plaza

Hartford, CT 06103-3597

Jay Sherwood

Richard J. Diviney, Esq.  
Sherwood, Garlick, Cowell, Diviney & Atwood, P.C.  
P.O. Box 390  
Westport, CT 06881-0390

Greens Farms Association

Robert P. Scholl  
Attorney At Law  
31 Imperial Avenue  
Westport, CT 06880

Petition No. 600  
AT&T Wireless PCS, LLC  
Westport, Connecticut  
Staff Report  
January 8, 2003

On January 6, 2003, Connecticut Siting Council (Council) member Brian O'Neill and Derek Phelps of the Council staff met with an AT&T Wireless PCS (AT&T), LLC representative at a cellular telecommunications tower facility located at 20 Post Office Lane in Westport. AT&T, with the agreement of Springwich Cellular Limited Partnership (SCLP), proposes to modify the structure by installing antennas on a pipe mast extension and is petitioning the Council for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need (Certificate) is required for the modification.

AT&T Wireless proposes to replace existing antennas located at the 80-foot level of the existing 130-foot tower with three antennas to be mounted on a pipe mast extension at the top of the monopole. The new overall height of the tower would be 143 feet above grade. All other existing components of AT&T's existing facility at the site will remain as approved and constructed. The proposed antenna relocation would enable AT&T to extend coverage to previously unserved or underserved high traffic areas along I-95, Route 1, and other adjacent roads in Westport.

The Council issued a Certificate for this site on August 29, 1995. Thereafter, the Council issued a Declaratory Ruling (Petition 394) on August 25, 1998, that allowed for the replacement of the 130-tower, expansion of the tower compound, and the installation of antennas at the 130-, 120-, 110-, and 90-foot levels.

On March 1, 2000, the Council acknowledged SCLP's notice of an exempt modification to allow AT&T to install antennas at the 80-foot level (EM-SCLP-158-000218). However, the Town of Westport asserted that AT&T's proposed modifications required local zoning and inland wetlands approval. Despite having questions about the town's jurisdiction, AT&T complied and applied for the local approvals.

During its permitting process before the town, AT&T modified its application to request approval to place a pipe mast extension at the top of the existing tower in order to provide better overall coverage. Subsequently, AT&T received local land use approvals, including a height variance, for the attachment of the pipe mast and three antennas.

After receiving municipal approvals, AT&T filed a tower sharing request with the Council (TS-SCLP-158-000705) seeking approval for installation of antennas at the top of the existing monopole in lieu of the previous exempt modification with antennas at the 80-foot level. The

Council denied that request on July 28, 2000, without comment, which had the practical effect of requiring a docket and certificate amendment for AT&T's proposed modifications. (It should be noted that during this time there was ongoing litigation that involved an unrelated matter in Westport — Docket 188: Sunny Lane.) In light of the Council's denial, AT&T elected to place its antennas at the 80-foot level, "temporarily," in order to provide coverage, albeit limited, in the area.

AT&T now asserts that new circumstances exist which support its earlier request to locate its antennas on top of the monopole tower at the 140-foot level. These circumstances include:

- Consensus has emerged within the Council concerning the proper regulatory review process for such applications concerning attachments on top of existing tower facilities.
- The Council has repeatedly found that such attachments involving tower facilities do not have significant adverse environmental effects needing to be further evaluated in a docket.
- The Council's exclusive jurisdiction over tower facilities such as the site in question was recently confirmed by the Connecticut Supreme Court. As such, the Council has the jurisdiction to review and consider the modifications proposed by AT&T.
- AT&T has prepared and provided photosimulations to compare the existing monopole and antenna configurations with the proposed installation, and drive test data showing that the increased height of AT&T's antennas would provide coverage to currently unserved areas.

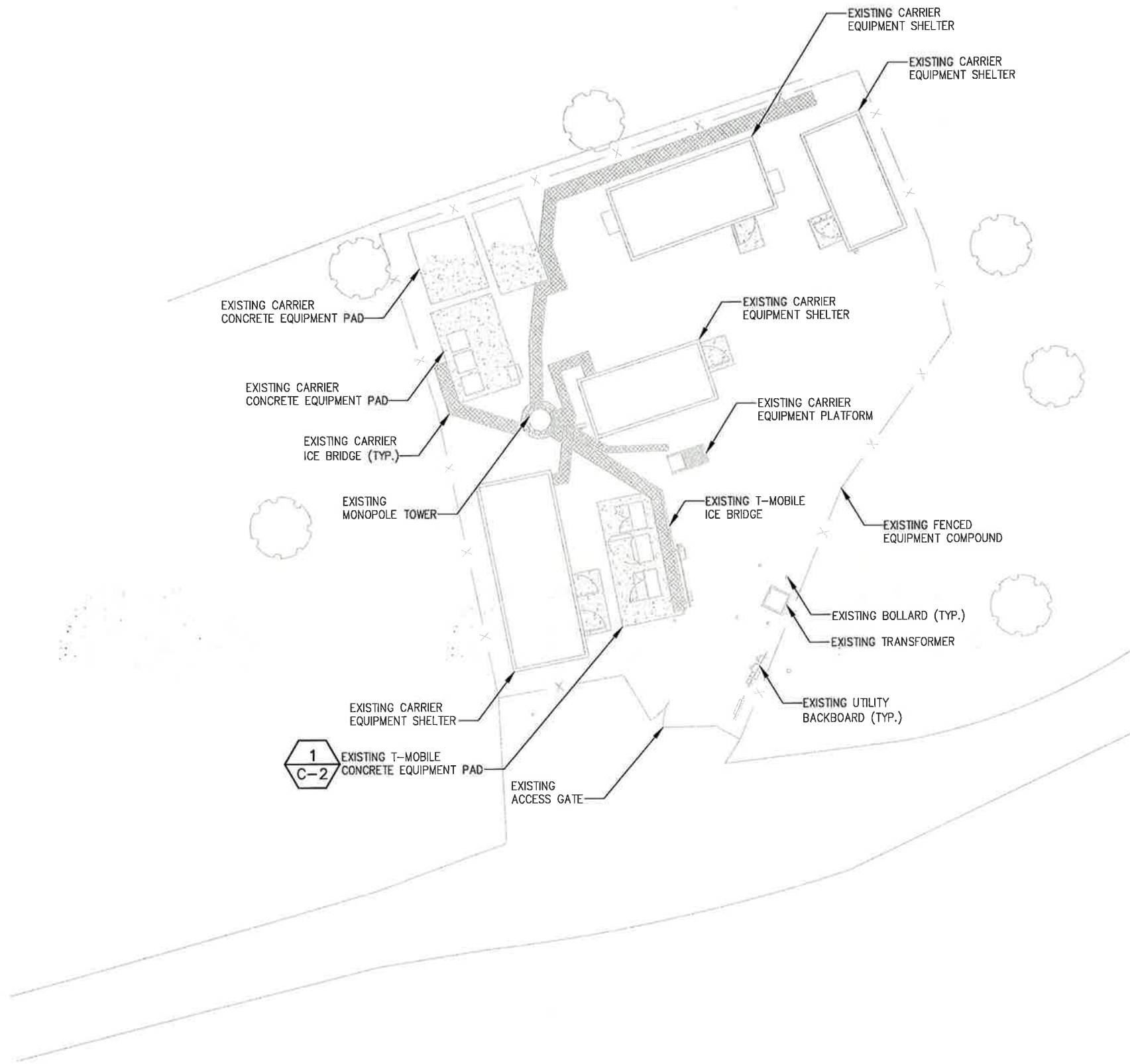
The tower is located between I-95 immediately to the north and a commuter rail line immediately to the south. There is also a high tension power line that runs parallel to the railroad. The nearest buildings are a small office and a small branch post office. A railroad station is also nearby. There are some residences on the other side of I-95. But the tower is screened from their view by the highway and vegetation, especially when the leaves are on the trees. During the site visit, there did not appear to be much development to the south of the rail line.

A structural analysis concludes that the tower is structurally adequate to accommodate the proposed addition. The worst-case power density for the telecommunications operations at the site has been calculated to be 35.59% of the applicable standard for uncontrolled environments. Staff estimates that raising AT&T's antennas from 80 to 140 feet would reduce Maximum Permissible Emission levels by 31%.

AT&T contends that the expanded coverage resulting from the requested height increase would minimize its need for other facilities in Westport. Given the location of this tower in a heavily traveled transportation corridor, its proximity to a power line, and the reduction of power density levels that would result from raising the antennas, the proposed increase in the height of this facility should not have any substantial adverse environmental effect.







**GENERAL SITE NOTES:**

1. A COMPLETE BOUNDARY SURVEY OF THE HOST PARCEL HAS NOT BEEN PERFORMED BY INFINIGY. BOUNDARY INFORMATION IF SHOWN WAS OBTAINED FROM INFORMATION PROVIDED BY OTHERS. PROPERTY IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
2. BASEMAPPING INFORMATION BASED ON PROVIDED INFORMATION.
3. CONTRACTOR TO FIELD VERIFY DIMENSIONS AS NECESSARY BEFORE CONSTRUCTION.
4. THE PROPOSED DEVELOPMENT DOES NOT INCLUDE SIGNS OF ADVERTISING.
5. THE PROPOSED DEVELOPMENT IS UNMANNED AND THEREFORE DOES NOT REQUIRE A MEANS OF WATER SUPPLY OR SEWAGE DISPOSAL.
6. NO LANDSCAPING WORK IS PROPOSED IN CONJUNCTION WITH THIS DEVELOPMENT OTHER THAN THAT WHICH IS SHOWN.
7. THE PROPOSED DEVELOPMENT DOES NOT INCLUDE OUTDOOR STORAGE OR ANY SOLID WASTE RECEPTACLES.
8. UTILITIES SHOWN ON PLAN ARE TAKEN FROM OWNERS RECORDS AND FIELD LOCATION OF VISIBLE SURFACE FEATURES. THE EXISTENCE, EXTENT AND EXACT HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES HAS NOT BEEN VERIFIED. ANY CONTRACTOR PERFORMING WORK ON THIS SITE MUST CONTACT MISS UTILITY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK.
9. ALL OBSOLETE OR UNUSED FACILITIES SHALL BE REMOVED WITHIN 12 MONTHS OF CESSATION OF OPERATIONS.

**SITE LEGEND**

- SITE PROPERTY LINE
- STREET OR ROAD
- x - x - CHAIN LINK FENCE
- o - o - OPAQUE WOODEN FENCE
- ⊙ TREES/SHRUBS
- ⌒ TREE LINE
- ⊗ UTILITY POLE
- (E) EXISTING
- (N) NEW
- (P) PROPOSED
- (F) FUTURE



T-MOBILE NORTHEAST LLC  
4 SYLVAN WAY  
PARSONSPANY, NJ 07654

**INFINIGY**

1033 Water/Viet Shaker Rd  
Albany, NY 12205  
Office # (518) 690-0790  
Fax # (518) 690-0793

**SUBMITTALS**

DATE	DESCRIPTION	REVISION
9/29/15	FOR PERMIT	0

DEPT.	DATE	APP'D	REVISIONS
R/E			
RF MAN			
ZONING			
OPS			
CONSTR.			
SITE AC.			

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



THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF T-MOBILE. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED.

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

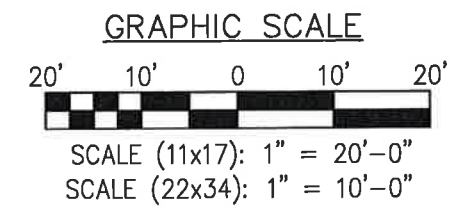
SITE NUMBER:  
CT11012B  
SITE NAME:  
WESTPORT/ I-95/ X18/ SHER  
20 POST OFFICE LANE  
WESTPORT, CT 06880

SHEET TITLE  
**SITE PLAN**

SHEET NUMBER  
**C-1**  
SHEET 2 OF 8 SHEETS



1 COMPOUND PLAN  
SCALE: AS NOTED



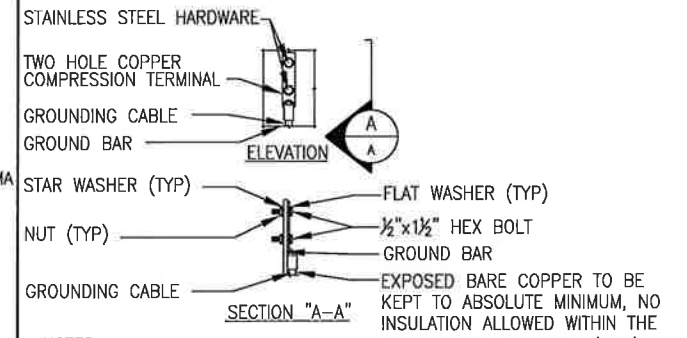
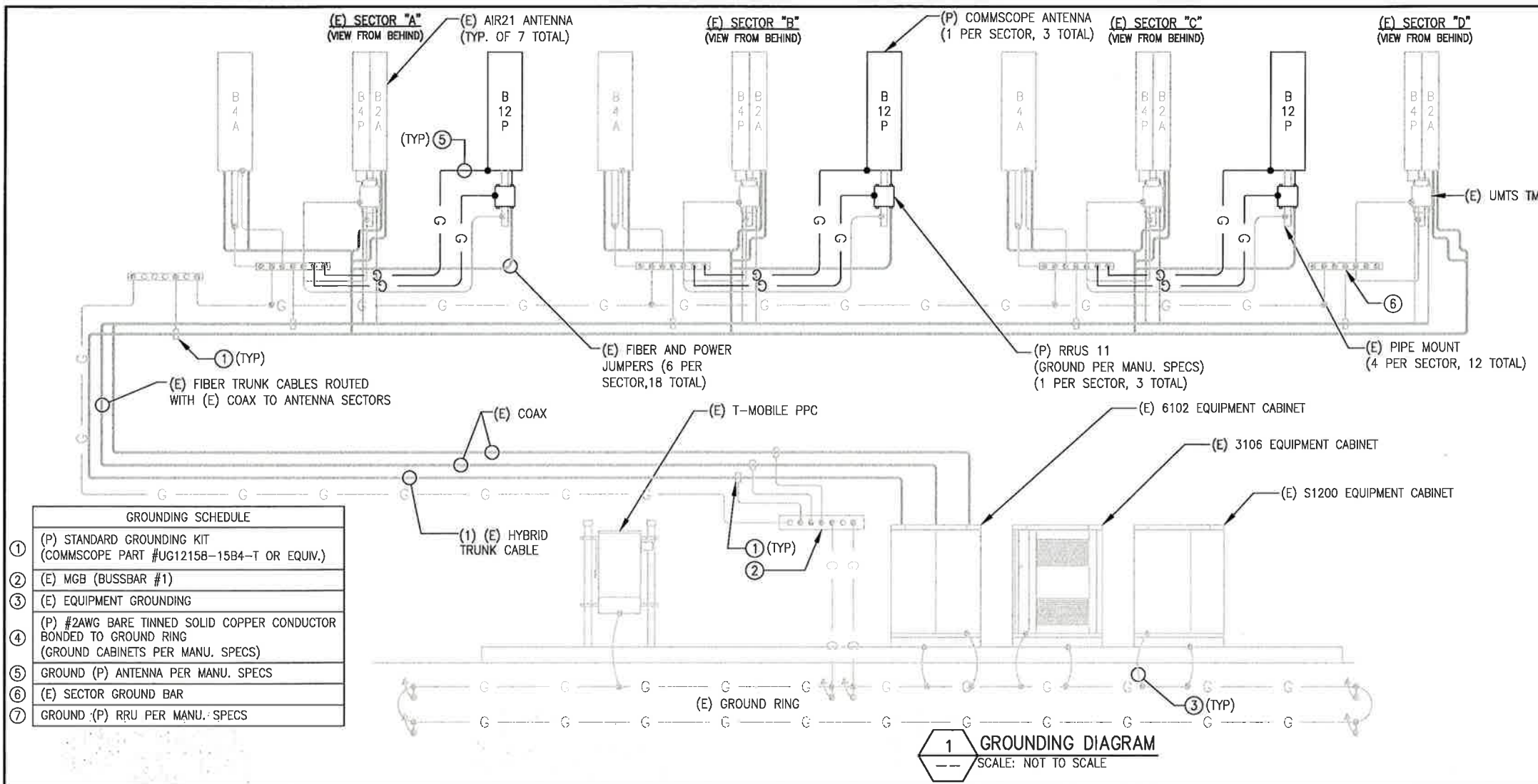






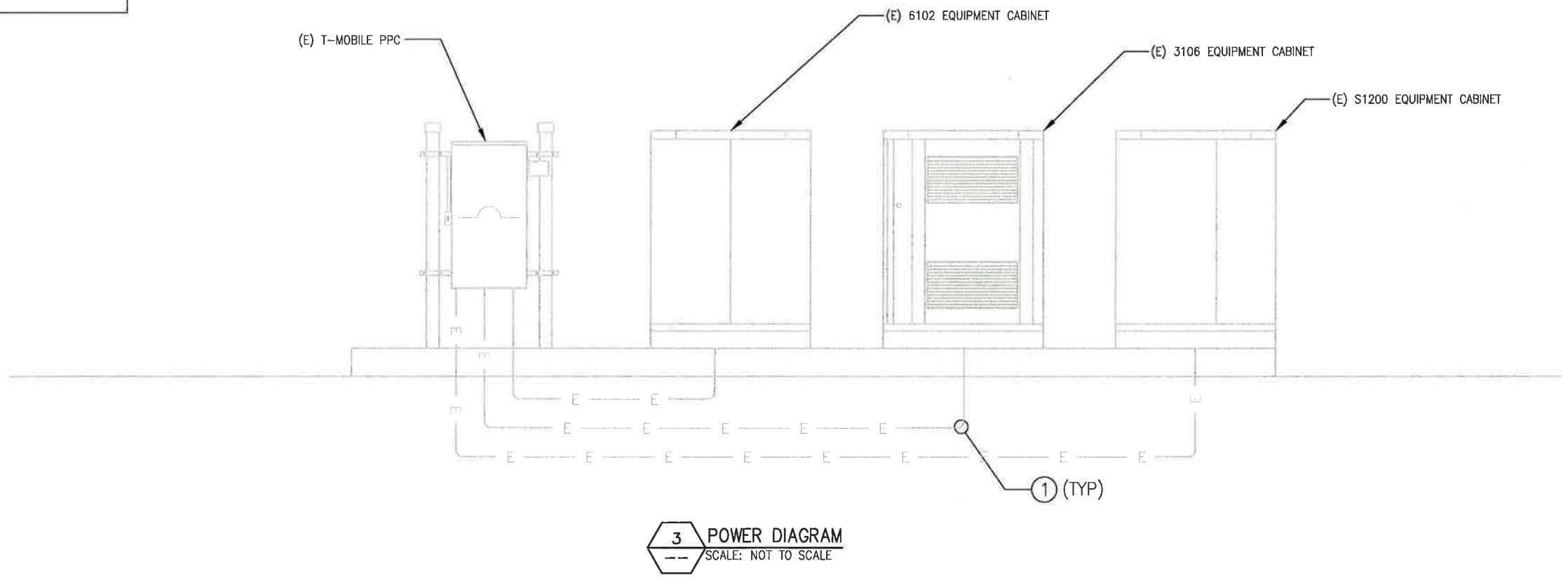






GROUNDING SCHEDULE	
①	(P) STANDARD GROUNDING KIT (COMMSCOPE PART #UG12158-15B4-T OR EQUIV.)
②	(E) MGB (BUSSBAR #1)
③	(E) EQUIPMENT GROUNDING
④	(P) #2AWG BARE TINNED SOLID COPPER CONDUCTOR BONDED TO GROUND RING (GROUND CABINETS PER MANU. SPECS)
⑤	GROUND (P) ANTENNA PER MANU. SPECS
⑥	(E) SECTOR GROUND BAR
⑦	GROUND (P) RRU PER MANU. SPECS

CONDUIT SCHEDULE	
①	(E) POWER CONDUIT



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

#2AWG WITH LONG BARREL COMPRESSION LUGS, USE STAR WASHERS, LOCKWASHERS, AND STAINLESS STEEL HARDWARE TO SECURE TO EXTERNAL GROUND BAR BY GENERAL CONTRACTOR.

NEW COAXIAL GROUND KITS WITH LONG BARREL COMPRESSION LUGS WITH TWO (2) 3/8"Ø BOLTS AND LOCK WASHERS SIMILAR TO ANDREW 3241088-9.

COPPER GROUND BAR

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 1/16".

SUBMITTALS		
DATE	DESCRIPTION	REVISION
8/28/15	FOR PERMIT	0

DEPT.	DATE	APP'D	REVISIONS
R/E			
R/ MAN.			
ZONING			
OPS			
CONSTR.			
SITE AC.			

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



THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF T-MOBILE. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED.

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

SITE NUMBER:  
**CT11012B**

SITE NAME:  
 WESTPORT/ I-95/ X18/ SHER  
 20 POST OFFICE LANE  
 WESTPORT, CT 06880

SHEET TITLE  
**GROUNDING & POWER DIAGRAMS**

SHEET NUMBER

**E-1**



SUBMITTALS		
DATE	DESCRIPTION	REVISION
9/29/15	FOR PERMIT	0

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

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



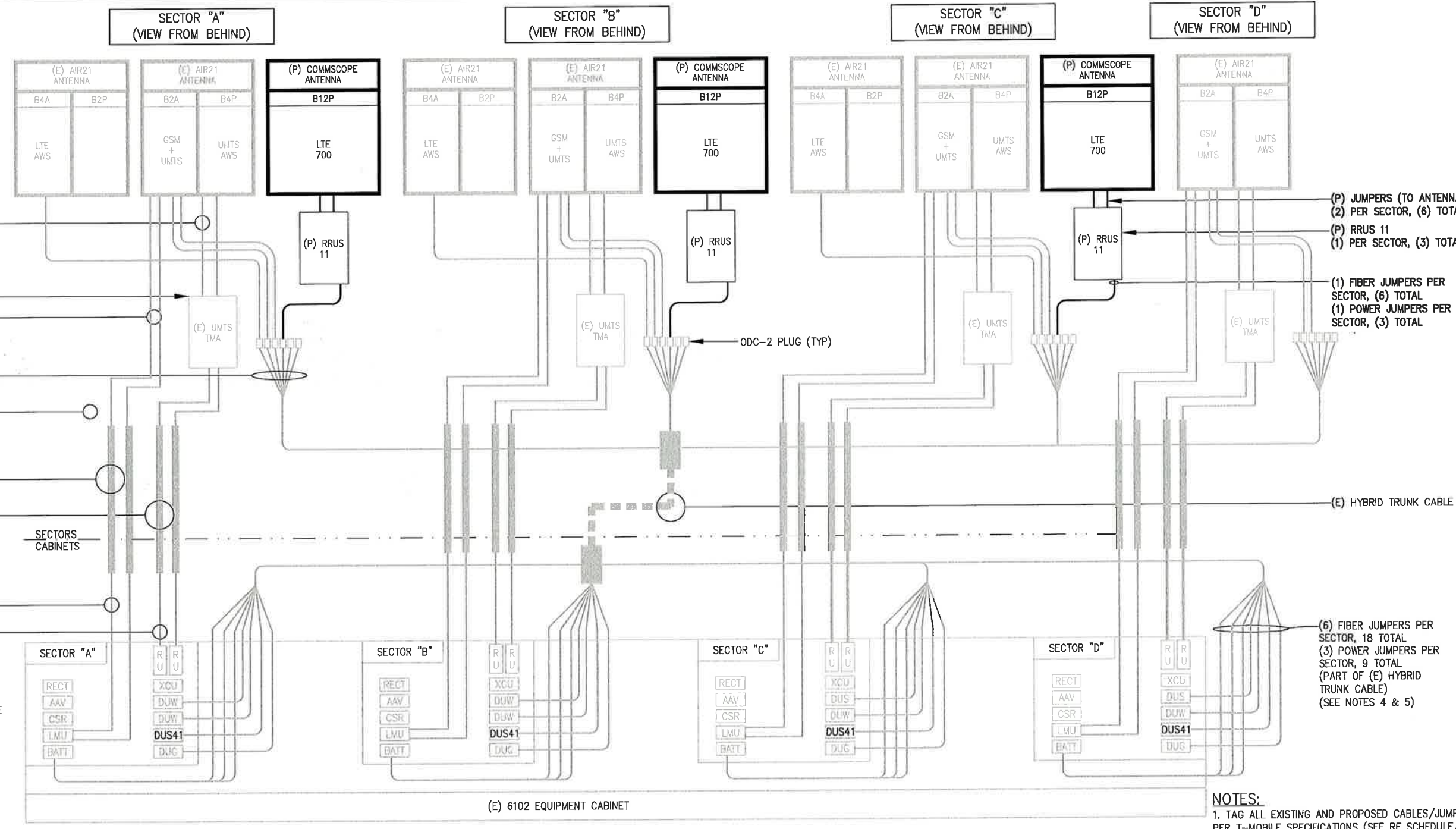
THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF T-MOBILE. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED.

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

SITE NUMBER:  
**CT11012B**  
SITE NAME:  
WESTPORT/1-95/ X18/ SHER  
20 POST OFFICE LANE  
WESTPORT, CT 06880

SHEET TITLE  
**COAX/FIBER PLUMBING DIAGRAM**

SHEET NUMBER  
**E-2**  
SHEET 7 OF 8 SHEETS



- (E) UMTS JUMPERS (TO ANTENNA)
- (E) UMTS TMA
- (E) COAX JUMPERS
- (E) BREAKOUT JUMPERS (FROM TRUNK CABLE)
- (6) FIBER PER SECTOR, (18) TOTAL
- (3) POWER PER SECTOR, (9) TOTAL
- (E) UMTS JUMPERS (TO TMA)
- (E) COAX
- (E) UMTS COAX
- SECTORS CABINETS
- (E) JUMPER
- (E) UMTS JUMPERS (TO COAX)
- PROPOSED FIBER/POWER JUMPER
- PROPOSED FIBER/POWER HYBRID CABLE
- EXISTING FIBER/POWER HYBRID CABLE
- EXISTING COAX CABLE
- EXISTING COAX JUMPER

- (P) JUMPERS (TO ANTENNA)
- (2) PER SECTOR, (6) TOTAL
- (P) RRUS 11
- (1) PER SECTOR, (3) TOTAL
- (1) FIBER JUMPERS PER SECTOR, (6) TOTAL
- (1) POWER JUMPERS PER SECTOR, (3) TOTAL

- (6) FIBER JUMPERS PER SECTOR, 18 TOTAL
- (3) POWER JUMPERS PER SECTOR, 9 TOTAL
- (PART OF (E) HYBRID TRUNK CABLE)
- (SEE NOTES 4 & 5)

- NOTES:**
- TAG ALL EXISTING AND PROPOSED CABLES/JUMPERS PER T-MOBILE SPECIFICATIONS (SEE RF SCHEDULE/C-3)
  - SEE RF SCHEDULE/C-3 FOR CABLE AND JUMPER LENGTHS.
  - IF NEW GPS ADDED TO SITE, CAP AND WEATHERPROOF ANY UNUSED COAX FOR FUTURE USE.
  - TRIM POWER JUMPERS PER MANU. SPECS TO CORRECT LENGTH FOR CONNECTION.
  - COIL EXCESS FIBER IN CABINET BASE.

**1** 702C<sub>U</sub> CONFIGURATION COAX/FIBER PLUMBING DIAGRAM  
NOT TO SCALE



