

March 16, 2015

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

Re: **Notice of Exempt Modification – Facility Modification
230 Clover Mill Road, Mansfield, Connecticut**

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains twelve (12) antennas at the top of the existing 178-foot tower at 230 Clover Mill Road in Mansfield, Connecticut (the “Property”). The tower is owned by Global Tower Partners. The Council approved Cellco’s shared use of this tower in 2004. Cellco now intends to modify its facility by replacing all of its existing antennas with three (3) model LNX-6514DS-VTM, 700 MHz antennas; three (3) model LNX-8513DS-VTM, 850 MHz antennas; three (3) model HBXX-6517DS-VTM, 1900 MHz antennas; and three (3) model HBXX-6517DS-VTM, 2100 MHz antennas, all at the same level on the tower. Cellco also intends to install six (6) remote radio heads (“RRHs”) behind its 1900 MHz and 2100 MHz antennas and two (2) HYBRIFLEX™ antenna cables inside the monopole tower. Included in Attachment 1 are specifications for Cellco’s replacement antennas, RRHs and HYBRIFLEX™ cables.

Please accept this letter as notification pursuant to R.C.S.A. § 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 Matthew Hart, Town Manager for the Town of Mansfield. The Town of Mansfield is the owner of the Property.

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

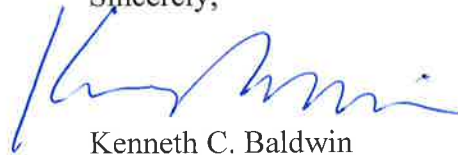
Robinson+Cole

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1. The proposed modifications will not result in an increase in the height of the existing tower. Cellco's replacement antennas and RRHs will be installed on its existing antenna platform at the 178-foot level of the tower.
2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the replacement antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative General Power Density table for Cellco's modified facility is included in Attachment 2.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The tower and its foundation can support Cellco's proposed modifications. (*See Structural Analysis Report included in Attachment 3*).

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

Sincerely,



Kenneth C. Baldwin

Enclosures

Copy to:

Matthew Hart, Mansfield Town Manager
Timothy Parks

ATTACHMENT 1

Product Specifications

COMMSCOPE®

LNX-6514DS-VTM

Andrew® Antenna, 698–896 MHz, 65° horizontal beamwidth, RET compatible

POWERED BY



Electrical Specifications

Frequency Band, MHz	698–806	806–896
Gain, dBi	15.7	16.3
Beamwidth, Horizontal, degrees	65	65
Beamwidth, Vertical, degrees	12.5	11.2
Beam Tilt, degrees	0–10	0–10
USLS, typical, dB	17	18
Front-to-Back Ratio at 180°, dB	32	30
CPR at Boresight, dB	20	20
CPR at Sector, dB	10	10
Isolation, dB	30	30
VSWR Return Loss, dB	1.4 15.6	1.4 15.6
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153
Input Power per Port, maximum, watts	400	400
Polarization	±45°	±45°

Electrical Specifications, BASTA*

Frequency Band, MHz	698–806	806–896
Beamwidth, Horizontal Tolerance, degrees	±3	±3

* CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, [download the whitepaper Time to Raise the Bar on BSAs.](#)

Mechanical Specifications

Color Radome Material	Light gray Fiberglass, UV resistant
Connector Interface Location Quantity	7-16 DIN Female Bottom 2
Wind Loading, maximum	617.7 N @ 150 km/h 138.9 lbf @ 150 km/h
Wind Speed, maximum	241.0 km/h 149.8 mph
Antenna Dimensions, L x W x D	1847.0 mm x 301.0 mm x 181.0 mm 72.7 in x 11.9 in x 7.1 in
Net Weight	14.2 kg 31.3 lb
Model with factory installed AISG 2.0 RET	LNX-6514DS-A1M

Product Specifications

COMMSCOPE®

LNX-8513DS-VTM

Andrew® Teletilt® Antenna, 698–896 MHz, 85° horizontal beamwidth, RET compatible

POWERED BY



Electrical Specifications

Frequency Band, MHz	698–806	806–896
Gain, dBi	14.6	15.3
Beamwidth, Horizontal, degrees	85	85
Beamwidth, Vertical, degrees	12.2	11.0
Beam Tilt, degrees	0–10	0–10
USLS, typical, dB	17	17
Front-to-Back Ratio at 180°, dB	25	26
Isolation, dB	30	30
VSWR Return Loss, dB	1.4 15.6	1.4 15.6
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153
Input Power per Port, maximum, watts	400	400
Polarization	±45°	±45°

Mechanical Specifications

Color Radome Material	Light gray Fiberglass, UV resistant
Connector Interface Location Quantity	7-16 DIN Female Bottom 2
Wind Loading, maximum	617.7 N @ 150 km/h 138.9 lbf @ 150 km/h
Wind Speed, maximum	241.0 km/h 149.8 mph
Antenna Dimensions, L x W x D	1847.0 mm x 301.0 mm x 181.0 mm 72.7 in x 11.9 in x 7.1 in
Net Weight	17.8 kg 39.2 lb
Model with factory installed AISG 2.0 RET LNX-8513DS-A1M	



Product Specifications

COMMSCOPE®

HBXX-6517DS-VTM

Andrew® Quad Port Teletilt® Antenna, 1710–2180 MHz, 65° horizontal beamwidth, RET compatible



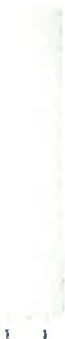
Electrical Specifications

Frequency Band, MHz	1710–1880	1850–1990	1920–2180
Gain by all Beam Tilts, average, dBi	18.5	18.6	18.8
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.4
	0° 18.4	0° 18.4	0° 18.7
Gain by Beam Tilt, average, dBi	3° 18.7	3° 18.7	3° 18.9
	6° 18.4	6° 18.5	6° 18.6
Beamwidth, Horizontal, degrees	67	66	65
Beamwidth, Horizontal Tolerance, degrees	±2.4	±1.7	±2.9
Beamwidth, Vertical, degrees	5.0	4.7	4.4
Beamwidth, Vertical Tolerance, degrees	±0.3	±0.3	±0.3
Beam Tilt, degrees	0–6	0–6	0–6
USLS, dB	18	19	19
Front-to-Back Total Power at 180° ± 30°, dB	25	26	26
CPR at Boresight, dB	22	23	22
CPR at Sector, dB	10	10	9
Isolation, dB	30	30	30
VSWR Return Loss, dB	1.4 15.6	1.4 15.6	1.4 15.6
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153
Input Power per Port, maximum, watts	350	350	350
Polarization	±45°	±45°	±45°

*Values calculated using NGMN Alliance N-P-BASTA v9.6

Mechanical Specifications

Color Radome Material	Light gray PVC, UV resistant
Connector Interface Location Quantity	7-16 DIN Female Bottom 4
Wind Loading, maximum	668.0 N @ 150 km/h 150.2 lbf @ 150 km/h
Wind Speed, maximum	241.0 km/h 149.8 mph
Antenna Dimensions, L x W x D	1903.0 mm x 305.0 mm x 166.0 mm 74.9 in x 12.0 in x 6.5 in
Net Weight	19.5 kg 43.0 lb
Model with factory installed AISG 2.0 RET	HBXX-6517DS-A2M



PCS RF MODULES

RRH1900 2X60 - HW CHARACTERISTICS

LA6.0.1/13.3

RRH2x60	
RF Output Power	2x60W
Instantaneous Bandwidth	20MHz
Transmitter	2 TX
Receiver	1900 HW version 1900A HW version
Features	2 Branch RX – LA6.0.1 4 Branch RX – LR13.3 AISG 2.0 for RET/TMA
Power	Internal Smart Bias-T -48VDC
CPRI Ports	2 CPRI Rate 3 Ports
External Alarms	4 External User Alarms
Monitor Ports	TX
Environmental	GR487 Compliance
RF Connectors	7/16 DIN (top mounted)



** Not a Verizon Wireless deployed product



Alcatel-Lucent

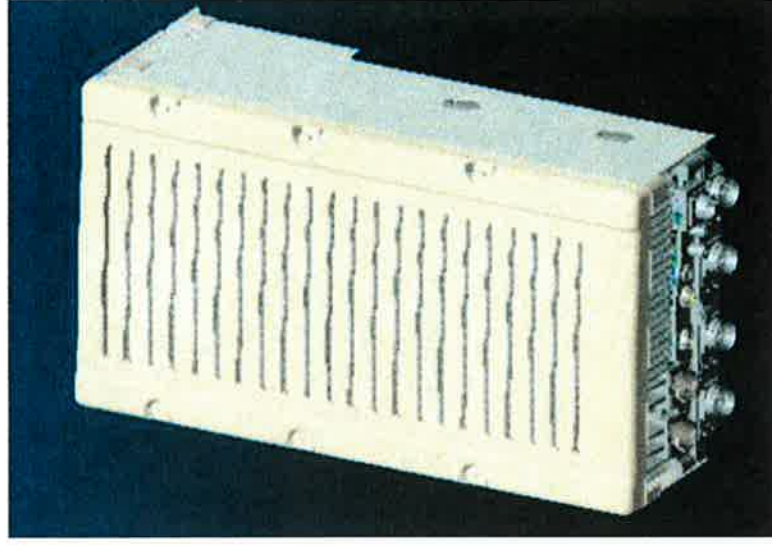
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NEW PCS RF MODULES FOR VZW

RRH2X60 - HW CHARACTERISTICS

LR14.3

	RRH2X60
RF Output Power	2x60W (4x30W HW Ready)
Instantaneous Bandwidth	60MHz
Target Reliability (Annual Return Rate)	<2%
Receiver	4 Branch Rx
Features	AISG 2.0 for RET/TMA
Power	-48VDC Internal Smart Bias-T
CPRI Ports	2 CPRI Rate 5 Ports
External Alarms	4 External User Alarms
Monitor Ports	TX, RX
Environmental	GR487 Compliance
RF Connectors	7/16 DIN (downward facing)
Dimensions	22"(h) x 12"(w) x 9.4" (d)**
Weight	55lb**



** - Includes solar shield but not mounting brackets (8 lbs.)



ALCATEL-LUCENT WIRELESS PRODUCT DATASHEET RRH2x60-AWS FOR BAND 4 APPLICATIONS

The Alcatel-Lucent RRH2x60-AWS is a high power, small form factor Remote Radio Head operating in the AWS frequency band (3GPP Band 4) for LTE technology. It is designed with an eco-efficient approach, providing operators with the means to achieve high quality and high capacity coverage with minimum site requirements and efficient operation.



A distributed Node B expands the deployment options by using two components, a Base Band Unit (BBU) containing the digital assets and a separate RRH containing the radio-frequency (RF) elements. This modular design optimizes available space and allows the main components of a Node B to be installed separately, within the same site or several kilometers apart.

The Alcatel-Lucent RRH2x60-AWS is linked to the BBU by an optical-fiber connection carrying downlink and uplink digital radio signals

along with operations, administration and maintenance (OA&M) information.

OPTIMIZED FOR BEST PERFORMANCE

The Alcatel-Lucent RRH2x60-AWS integrates all the latest technologies. This allows to offer best-in-class characteristics.

It delivers an outstanding 120 watts of total RF power thanks to its two transmit RF paths of 60 W each.

It is ideally suited to support multiple-input multiple-output (MIMO) 2x2 operation.

It includes four RF receivers to natively support 4-way uplink reception diversity. This improves the radio uplink coverage and this can be used to extend the cell radius commensurate with 2x2MIMO 2x60 W for the downlink.

It supports multiple discontinuous LTE carriers within an instantaneous bandwidth of 45 MHz corresponding to the entire AWS B4 spectrum.

The latest generation power amplifiers (PA) used in this product achieve high efficiency (>40%), resulting in improved power consumption figures.

OPTIMIZED COST

The Alcatel-Lucent RRH2x60-AWS is designed to make available all the benefits of a distributed Node B, with excellent RF characteristics, with low capital expenditures (CAPEX) and low operating expenditures (OPEX).

The Alcatel-Lucent RRH2x60-AWS is a very cost-effective solution to deploy LTE MIMO.

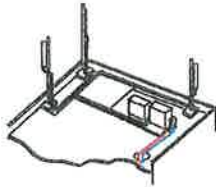
EASY INSTALLATION

The RRH2x60-AWS includes a reversible mounting bracket which allows for ease of installation behind an antenna, or on a rooftop knee wall while providing easy access to the mid body RF connectors.

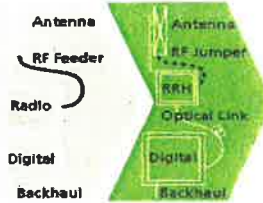
The limited space available in some sites may prevent the installation of traditional single-cabinet BTS equipment. However, many of these sites can host an Alcatel-Lucent RRH2x60-AWS installation, providing more flexible site selection and improved network quality along with greatly reduced installation time and costs.

The Alcatel-Lucent RRH2x60-AWS is a zero-footprint solution and is convection cooled without fans for silent operation, simplifying negotiations with site property owners and minimizing environmental impacts.

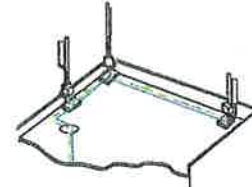
Installation can easily be done by a single person as the Alcatel-Lucent RRH2x60-AWS is compact and weighs about 20 kg, eliminating the need for a crane to hoist the BTS cabinet to the rooftop. A site can be in operation in less than one day.



Macro



RRH for space-constrained cell sites



Distributed

FEATURES

- RRH2x60-AWS integrates two power amplifiers of 60W rating (at each antenna connector)
- Support multiple carriers over the entire 3GPP band 4
- RRH2x60-AWS is optimized for LTE operation
- RRH2x60-AWS is a very compact and lightweight product
- Advanced power management techniques are embedded to provide power savings, such as PA bias control

BENEFITS

- MIMO LTE operation with only one single unit per sector
- Improved uplink coverage with built-in 4-way receive diversity capability
- RRH can be mounted close to the antenna, eliminating nearly all losses in RF cables and thus reducing power consumption by 50% compared to conventional solutions
- Distributed configurations provide easily deployable and cost-effective solutions, near zero footprint and

silent solutions, with minimum impact on the neighborhood, which ease the deployment

- RETA and TMA support without additional hardware thanks to the AISG v2.0 port and the integrated Bias-Tees. Bias-Tees support AISG DC supply and signaling.

TECHNICAL SPECIFICATIONS

Specifications listed are hardware capabilities. Some capabilities depend on support in a specific software release or future release.

Dimensions and weights

- HxWxD : 510x285x186mm (27 l with solar shield)
- Weight : 20 kg (44 lbs)

Electrical Data

- Power Supply : -48V DC (-40.5 to -57V)
- Power Consumption (ETSI average traffic load reference) : 250W @2x60W

RF Characteristics

- Frequency band: 1710-1755, UL / 2110-2155 MHz, DL (3GPP band 4)
- Output power: 2x60W at antenna connectors
- Technology supported: LTE
- Instantaneous bandwidth: 45 MHz
- Rx diversity: 2-way and 4-way uplink reception
- Typical sensitivity without Rx diversity: -105 dBm for LTE

Connectivity

- Two CPRI optical ports for daisy chaining and up to six RRHs per fiber
- Type of optical fiber: Single-Mode (SM) and Multi-Mode (MM) SFPs
- Optical fiber length: up to 500m using MM fiber, up to 20km using SM fiber
- TMA/RETA : AISG 2.0 (RS485 connector and internal Bias-Tee)
- Six external alarms
- Surge protection for all external ports (DC and RF)

Environmental specifications

- Operating temperature: -40°C to 55°C including solar load
- Operating relative humidity: 8% to 100%
- Environmental Conditions : ETS 300 019-1-4 class 4.1E
- Ingress Protection : IEC 60529 IP65
- Acoustic Noise : Noiseless (natural convection cooling)

Safety and Regulatory Data

- EMC : 3GPP 25113, EN 301 489-1, EN 301 489-23, GR 1089, GR 3108, OET-65
- Safety : IEC60950-1, EN 60825-1, UL, ANSI/NFPA 70, CAN/CSA-C22.2
- Regulatory : FCC Part 15 Class B, CE Mark – European Directive : 2002/95/EC (ROHS); 2002/96/EC (WEEE); 1999/5/EC (R&TTE)
- Health : EN 50385

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HYBRIFLEX™ RRH Hybrid Feeder Cabling Solution, 1-5/8", Single-Mode Fiber

Product Description

RFS' HYBRIFLEX Remote Radio Head (RRH) hybrid feeder cabling solution combines optical fiber and DC power for RRHs in a single lightweight aluminum corrugated cable, making it the world's most innovative solution for RRH deployments.

It was developed to reduce installation complexity and costs at Cellular sites. HYBRIFLEX allows mobile operators deploying an RRH architecture to standardize the RRH installation process and eliminate the need for and cost of cable grounding. HYBRIFLEX combines optical fiber (multi-mode or single-mode) and power in a single corrugated cable. It eliminates the need for junction boxes and can connect multiple RRHs with a single feeder. Standard RFS CELLFLEX® accessories can be used with HYBRIFLEX cable. Both pre-connectorized and on-site options are available.

Features/Benefits

- Aluminum corrugated armor with outstanding bending characteristics - minimizes installation time and enables mechanical protection and shielding
- Same accessories as 1 5/8" coaxial cable
- Outer conductor grounding - Eliminates typical grounding requirements and saves on installation costs
- Lightweight solution and compact design - Decreases tower loading
- Robust cabling - Eliminates need for expensive cable trays and ducts
- Installation of tight bundled fiber optic cable pairs directly to the RRH - Reduces CAPEX and wind load by eliminating need for interconnection
- Optical fiber and power cables housed in single corrugated cable - Saves CAPEX by standardizing RRH cable installation and reducing installation requirements
- Outdoor polyethylene jacket - Ensures long-lasting cable protection

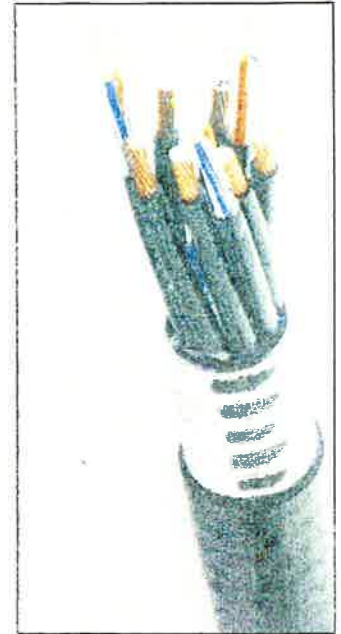


Figure 1: HYBRIFLEX Series

Technical Specifications

Structure			
Outer Conductor Armor	Corrugated Aluminum	[mm (in.)]	46.5 (1.83)
Jacket	Polyethylene, PE	[mm (in.)]	50.3 (1.98)
UV-Protection	Individual and External Jacket		Yes
Mechanical Properties			
Weight, Approximate		[kg/m (lb/ft)]	1.9 (1.30)
Minimum Bending Radius, Single Bending		[mm (in.)]	200 (8)
Minimum Bending Radius, Repeated Bending		[mm (in.)]	500 (20)
Recommended/Maximum Clamp Spacing		[m (ft)]	1.0 / 1.2 (3.25 / 4.0)
Electrical Properties			
DC-Resistance Outer Conductor Armor		[Ω/km (Ω/1000ft)]	068 (0.205)
DC-Resistance Power Cable, 8.4mm ² (8AWG)		[Ω/km (Ω/1000ft)]	2.1 (0.307)
Fiber Optic Properties			
Version			Single-mode OM3
Quantity, Fiber Count			16 (8 pairs)
Core/Clad		[μm]	50/125
Primary Coating (Acrylate)		[μm]	245
Buffer Diameter, Nominal		[μm]	900
Secondary Protection, Jacket, Nominal		[mm (in.)]	2.0 (0.08)
Minimum Bending Radius		[mm (in.)]	104 (4.1)
Insertion Loss @ wavelength 850nm		dB/km	3.0
Insertion Loss @ wavelength 1310nm		dB/km	1.0
Standards (Meets or exceeds)			UL34-V0 UL1666 RoHS Compliant
Power Cable Properties			
Size (Power)		[mm (AWG)]	8.4 (8)
Quantity, Wire Count (Power)			16 (8 pairs)
Size (Alarm)		[mm (AWG)]	0.8 (18)
Quantity, Wire Count (Alarm)			4 (2 pairs)
Type			UV protected
Strands			19
Primary Jacket Diameter, Nominal		[mm (in.)]	6.8 (0.27)
Standards (Meets or exceeds)			NFPA 130, ICEA S-95-658 UL Type XHHW-2, UL 44 UL-LS Limited Smoke, UL VW-1 IEEE-383 (1974), IEEE1202/FT4 RoHS Compliant
Operating Limits			
Installation Temperature		[°C (°F)]	-40 to +65 (-40 to 149)
Operation Temperature		[°C (°F)]	-40 to +65 (-40 to 149)

* This data is provisional and subject to change

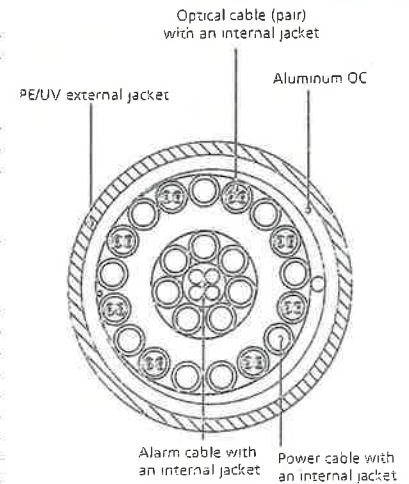


Figure 2: Construction Detail

All information contained in the present datasheet is subject to confirmation at time of ordering

ATTACHMENT 2

		General		Power		Density							
		# OF CHAN.	WATTS ERP	HEIGHT	CALC. POWER DENS	FREQ.	MAX. PERMISS. EXP.	FRACTION MPE	Total				
Site Name: Mansfield Ctr													
Tower Height: 178Ft.													
CARRIER													
*Fire Svcs & EMS	1	500	187	0.0051	420	0.2800	1.84%						
*Fire Svcs & EMS	1	500	187	0.0051	420	0.2800	1.84%						
*Fire Svcs & EMS	1	500	188	0.0051	152	0.2000	2.54%						
*Emergency Mgmt	1	500	188	0.0051	153	0.2000	2.54%						
*Public Works	1	500	188	0.0051	152	0.2000	2.54%						
*Fire Svcs & EMS	1	500	188	0.0051	150	0.2000	2.54%						
*Fire Svcs & EMS	1	500	188	0.0051	150	0.2000	2.54%						
*AT&T UMTS	2	565	168	0.0144	880	0.5867	2.45%						
*AT&T UMTS	2	875	168	0.0223	1900	1.0000	2.23%						
*AT&T GSM	1	283	168	0.0036	880	0.5867	0.61%						
*AT&T GSM	4	525	168	0.0268	1900	1.0000	2.68%						
*AT&T LTE	1	1313	168	0.0167	734	0.4893	3.42%						
*Sprint CDMA/LTE	2	693	156.9	0.0202	1900	1.0000	2.02%						
*Sprint CDMA/LTE	1	390	156.9	0.0057	850	0.5667	1.01%						
*T-Mobile	8	169	148	0.0222	1935	1.0000	2.22%						
Verizon PCS	11	419	178	0.0523	1970	1.0000	5.23%						
Verizon Cellular	9	276	178	0.0282	869	0.5793	4.87%						
Verizon AWS	1	2832	178	0.0321	2145	1.0000	3.21%						
Verizon 700	1	680	178	0.0077	698	0.4973	1.55%						47.89%
* Source: Siting Council													

ATTACHMENT 3



AMERICAN TOWER®
CORPORATION

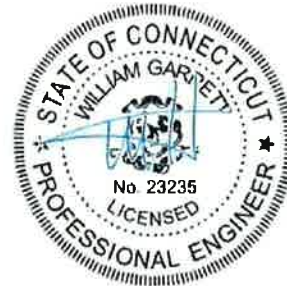
Structural Analysis Report

Structure : 178 ft Monopole
ATC Site Name : Mansfield Center 1 CT, CT
ATC Site Number : 376046
Engineering Number : 60628221
Proposed Carrier : Verizon
Carrier Site Name : Mansfield Center
Carrier Site Number : 117997
Site Location : 230 Clover Mill Road
Storrs Mansfield, CT 06268-2826
41.775778,-72.222500
County : Tolland
Date : December 12, 2014
Max Usage : 54%
Result : Pass

Prepared By:
Jessica Abbott, E.I.
Structural Engineer I

Jessica Abbott

Reviewed by:
William Garrett, PE
Chief Engineer



Dec 16 2014 3:25 PM



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Standard Conditions	4
Calculations	Attached



Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 178 ft monopole to reflect the change in loading by Verizon.

Supporting Documents

Tower Drawings	PennSummit Tubular PJF Job #29203-0151, dated December 23, 2003
Foundation Drawing	PennSummit Tubular PJF Job #29203-0151, dated December 23, 2003
Geotechnical Report	JGI Project #01133G, dated May 14, 2001

Analysis

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

Basic Wind Speed:	100 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 1" radial ice concurrent
Code:	ANSI/TIA-222-G / 2003 IBC w/ 2005 CT Supplement & 2009 CT Amendment
Structure Class:	II
Exposure Category:	B
Topographic Category:	1
Spectral Response:	$S_s = 0.17, S_1 = .06$
Site Class:	D - Stiff Soil

Conclusion

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

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



Existing and Reserved Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
178.0	178.0	6	RFS FD9R6004/2C-3L	Platform w/ Handrails	(12) 1 5/8" Coax	Verizon
	184.0	1	5' Omni		(4) 7/8" Coax	Town Of Mansfield
	182.0	1	2' x 4' Rectangular Grid Dish			
	191.0	2	18' Dipole			
168.0	168.0	6	Allgon LGP21401	Flush	(2) 3/4" Carflex Non-Met (6) 1 5/8" Coax (1) 0.39" Fiber Trunk	AT&T Mobility
		1	Raycap DCG-48-60-18-8F			
		6	Ericsson RRU11			
		3	Allgon 7770.00			
		3	KMW AM-X-CD-16-65-00T-RET			
158.0	158.0	6	RRH	Low Profile Platform	(3) 1 1/4" Hybriflex (3) 1 5/8" Fiber	Sprint Nextel
		3	Alcatel-Lucent TD-RRH8x20-25			
		3	RFS APXV9TM14-ALU-I20			
		3	RFS APXVSP18-C-A20			
145.0	148.0	6	TTA	Low Profile Platform	(12) 1 5/8" Coax	T-Mobile
		6	RFS APX16PV-16PVL-E-00			
110.0	113.0	3	5' Omni	T-Arms	(7) 7/8" Coax	Town Of Mansfield
	110.0	1	2' x 4' Rectangular Grid Dish			
	119.0	3	18' Dipole			

Equipment to be Removed

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
178.0	178.0	6	Antel LPA-80080/4CF	-	-	Verizon Wireless
		3	Amphenol Antel BXA-70063-6CF-EDIN-6			
		3	Antel BXA-185090/8CF			

Proposed Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
178.0	178.0	3	Alcatel-Lucent RRH 2X60-1900	Platform w/ Handrails	(2) 1 5/8" Hybriflex	Verizon
		3	Alcatel-Lucent RRH2X60-AWS			
		2	RFS DB-T1-6Z-8AB-0Z			
		3	Commscope LNX-6514DS-A1M			
		3	Commscope LNX-8513DS-VTM			
		6	Commscope HBXX-6517DS-A2M			

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

Install proposed coax inside the pole shaft.



Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	45%	Pass
Shaft	54%	Pass
Base Plate	44%	Pass

Foundations

Reaction Component	Original Design Reactions	Factored Design Reactions*	Analysis Reactions	% of Design
Moment (Kips-Ft)	6,250.0	8,437.5	4,226.5	50%
Shear (Kips)	48.0	64.8	33.6	52%

* The design reactions are factored by 1.35 per ANSI/TIA-222-G, Sec. 15.5.1

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

Deflection and Sway*

Antenna Elevation (ft)	Deflection (ft)	Sway (Rotation) (°)
178.0	1.541	0.941

*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.

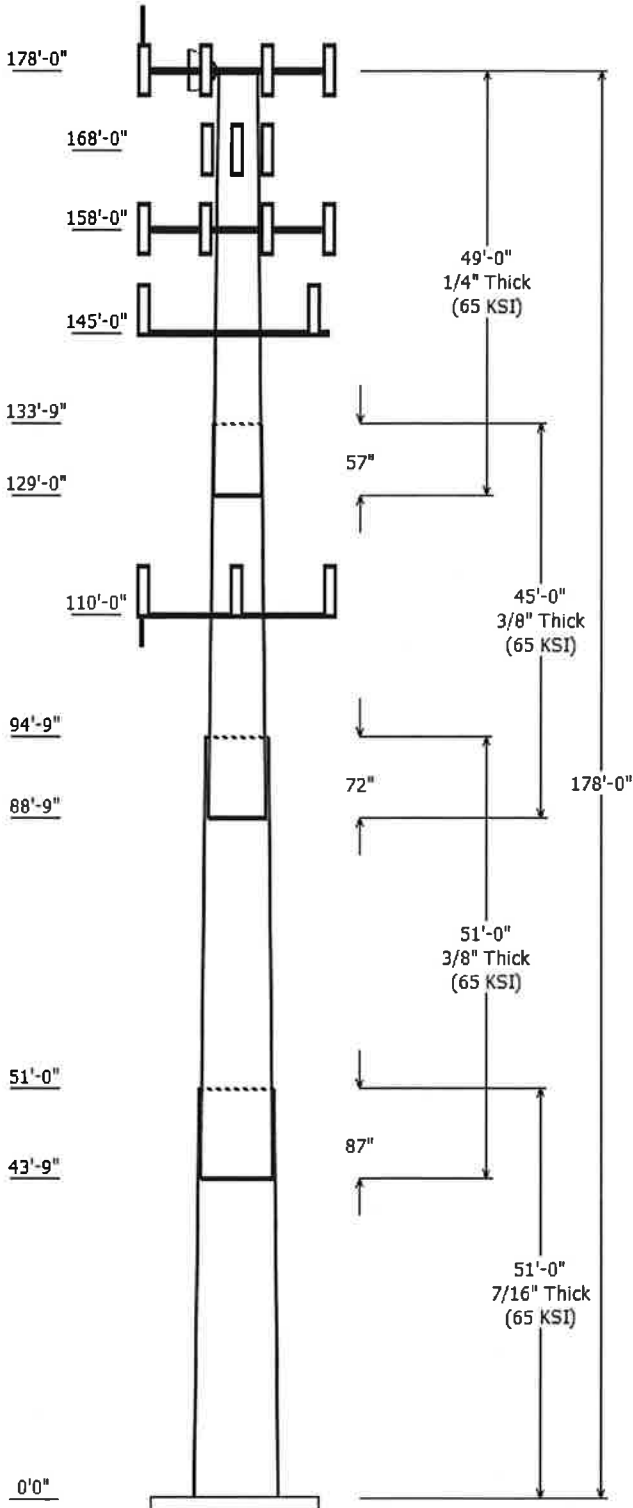
- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements of the structure.

It is the responsibility of the client to ensure that the information provided to ATC Tower Services, Inc. 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. ATC Tower Services, Inc. is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.

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Job Information	
Pole : 376046	Code: ANSI/TIA-222 Rev G
Description : 178 ft PennSummit Monopole	
Client : Verizon Wireless	Struct Class : II
Location : Mansfield Center 1 CT, CT	
Shape : 18 Sides	Exposure : B
Height : 178.00 (ft)	Topo : 1
Base Elev (ft): 0.00	
Taper: 0.252023(in/ft)	

Sections Properties								
Shaft Section	Length (ft)	Diameter (in)		Thick (in)	Joint Type	Overlap Length (in)	Taper (in/ft)	Steel Grade (ksi)
		Top	Bottom					
1	51.000	55.507	68.360	0.438		0.000	0.252023	65
2	51.000	45.231	58.084	0.375	Slip Joint	87.000	0.252023	65
3	45.000	36.152	47.493	0.375	Slip Joint	72.000	0.252023	65
4	49.000	25.500	37.849	0.250	Slip Joint	57.000	0.252023	65

Discrete Appurtenance			
Attach Elev (ft)	Force Elev (ft)	Qty	Description
178.000	178.000	6	Commscope HBXX-6517DS-A2M
178.000	178.000	3	Commscope LNX-6514DS-A1M
178.000	178.000	3	Commscope LNX-8513DS-VTM
178.000	178.000	2	RFS DB-T1-6Z-8AB-0Z
178.000	178.000	3	Alcatel-Lucent RRH2X60-AWS
178.000	178.000	3	Alcatel-Lucent RRH 2X60-1900
178.000	178.000	2	18' Dipole
178.000	178.000	1	2' x 4' Rectangular Grid Dish
178.000	180.500	1	5' Omni
178.000	178.000	6	RFS FD9R6004/2C-3L
178.000	178.000	1	Flat Platform w/ Handrails
168.000	168.000	3	KMW AM-X-CD-16-65-00T-RET
168.000	168.000	3	Allgon 7770.00
168.000	168.000	6	Ericsson RRU11
168.000	168.000	6	Allgon LGP21401
168.000	168.000	1	Raycap DC6-48-60-18-8F
158.000	158.000	3	RFS APXVSP18-C-A20
158.000	158.000	3	RFS APXV9TM14-ALU-I20
158.000	158.000	3	Alcatel-Lucent TD-RRH8x20-25
158.000	158.000	6	RRH
158.000	158.000	1	Round Low Profile Platform
145.000	148.000	6	RFS APX16PV-16PVL-E-00
145.000	148.000	6	TTA
145.000	145.000	1	Round Low Profile Platform
110.000	119.000	3	18' Dipole
110.000	110.000	1	2' x 4' Rectangular Grid Dish
110.000	113.000	3	5' Omni
110.000	110.000	3	Flat T-Arm

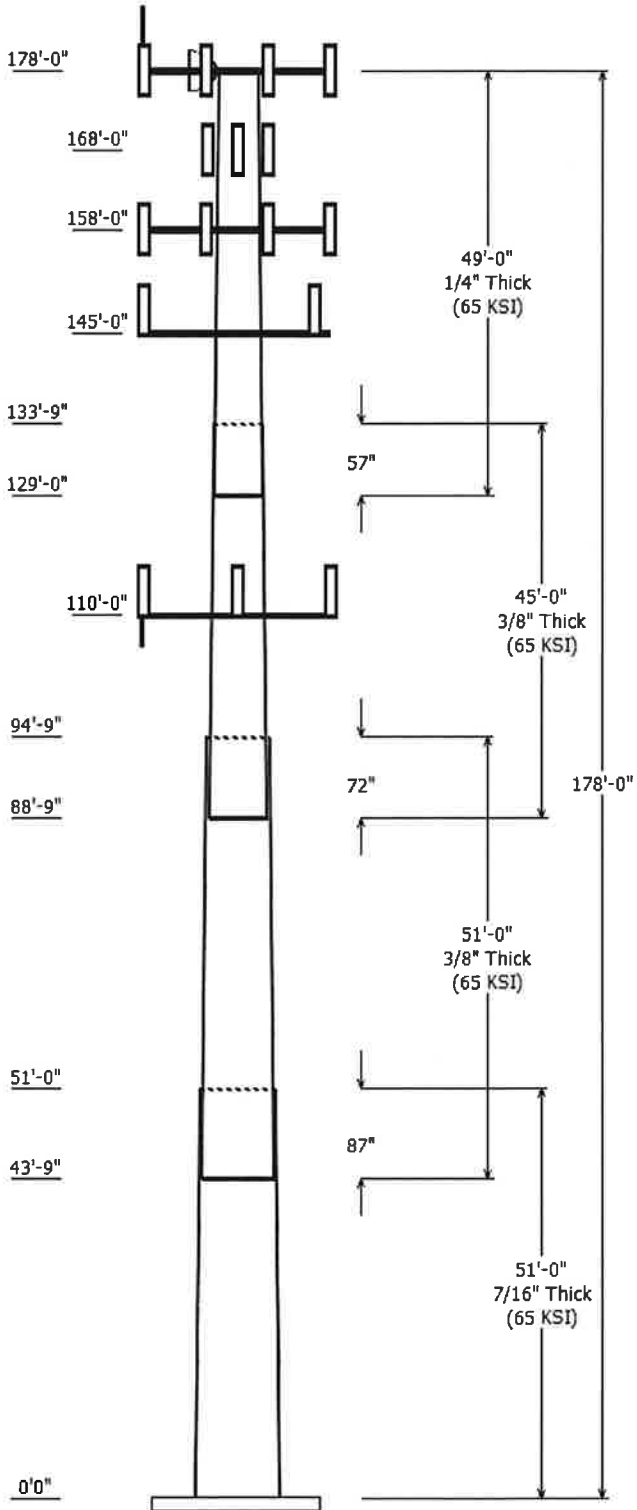
Linear Appurtenance			
Elev (ft)			
From	To	Description	Exposed To Wind
0.000	110.00	7/8" Coax	No
0.000	145.00	1 5/8" Coax	No
0.000	158.00	1 1/4" Hybriflex	No
0.000	158.00	1 5/8" Fiber	No
0.000	168.00	0.39" Fiber Trunk	No
0.000	168.00	1 5/8" Coax	No
0.000	168.00	3/4" Carflex Non-	No
0.000	178.00	1 5/8" Coax	No

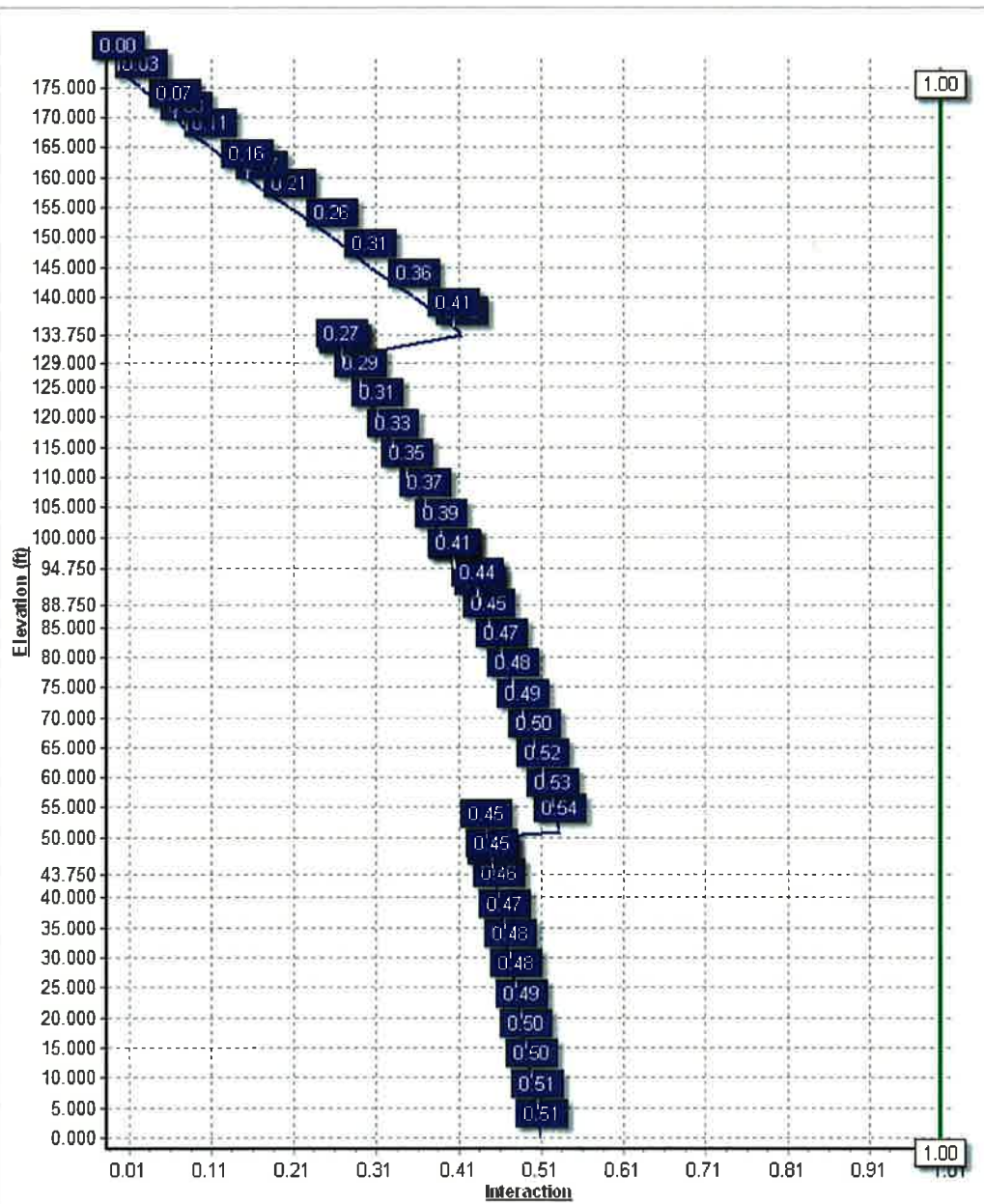
0.000	178.00	1 5/8" Hybriflex	No
0.000	178.00	7/8" Coax	No

Load Cases	
1.2D + 1.6W	100.00 mph with No Ice
0.9D + 1.6W	100.00 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50.00 mph with 1.00 in Radial Ice
1.2D + 1.0E	Dead Load with Seismic
0.9D + 1.0E	Dead Load with Seismic (Reduced DL)
1.0D + 1.0W	60.00 mph Serviceability

Reactions			
Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.6W	4226.48	33.65	62.94
0.9D + 1.6W	4189.81	33.63	47.19
1.2D + 1.0Di + 1.0Wi	1254.71	9.96	102.11
1.2D + 1.0E	253.12	1.90	62.97
0.9D + 1.0E	250.75	1.90	47.23
1.0D + 1.0W	946.01	7.57	52.47

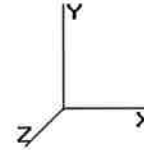
Dish Deflections			
Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
1.0D + 1.0W	178.00	18.490	0.941





Pole : 376046
 Location : Mansfield Center 1 CT, CT
 Height : 178.00 (ft)
 Base Dia : 68.360 (in)
 Top Dia : 25.500 (in)
 Shape : 18 Sides
 Taper : 0.252023 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1
 Base Elev : 0.000 (ft)



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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 (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Taper (in/ft)	
1-18	51.000	0.4375	65		0.00	14,819	68.36	0.00	94.32	54974.8	26.14	156.25	55.507	51.00	76.47	29298.9	20.96	126.87	0.252023	
2-18	51.000	0.3750	65	Slip	87.00	10,592	58.08	43.75	68.69	28900.5	25.90	154.89	45.231	94.75	53.39	13571.6	19.86	120.62	0.252023	
3-18	45.000	0.3750	65	Slip	72.00	7,554	47.49	88.75	56.08	15730.2	20.92	126.65	36.152	133.75	42.58	6886.3	15.59	96.41	0.252023	
4-18	49.000	0.2500	65	Slip	57.00	4,157	37.84	129.00	29.83	5328.6	25.28	151.40	25.500	178.00	20.04	1613.8	16.57	102.00	0.252023	
Shaft Weight						37,123														

Discrete Appurtenance Properties

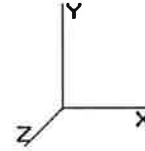
Attach Elev (ft)	Description	Qty	No Ice			Ice			Distance From Face (ft)	Vert Ecc (ft)
			Weight (lb)	EPAa (st)	Orientation Factor	Weight (lb)	EPAa (sf)	Orientation Factor		
178.00	18' Dipole	2	100.00	6.710	1.00	318.66	7.079	1.00	0.000	0.000
178.00	2' x 4' Rectangular Grid Dish	1	40.00	4.750	1.00	244.71	48.619	1.00	0.000	0.000
178.00	5' Omni	1	15.00	1.360	1.00	122.99	2.887	1.00	0.000	2.500
178.00	Alcatel-Lucent RRH 2X60-	3	39.60	1.880	0.50	139.35	2.698	0.50	0.000	0.000
178.00	Alcatel-Lucent RRH2X60-AWS	3	39.60	1.880	0.50	139.35	2.698	0.50	0.000	0.000
178.00	Commscope HBXX-6517DS-	6	39.70	8.530	0.81	272.34	11.785	0.81	0.000	0.000
178.00	Commscope LNX-6514DS-	3	47.40	8.170	0.83	342.41	9.984	0.83	0.000	0.000
178.00	Commscope LNX-8513DS-	3	50.30	8.170	0.83	345.31	9.984	0.83	0.000	0.000
178.00	Flat Platform w/ Handrails	1	2000.00	42.400	1.00	3,931.55	70.904	1.00	0.000	0.000
178.00	RFS DB-T1-6Z-8AB-0Z	2	110.00	4.800	0.67	309.49	6.014	0.67	0.000	0.000
178.00	RFS FD9R6004/2C-3L	6	2.60	0.370	0.50	24.68	0.706	0.50	0.000	0.000
168.00	Allgon 7770.00	3	35.00	5.510	0.77	231.86	6.964	0.77	0.000	0.000
168.00	Allgon LGP21401	6	14.10	1.100	0.50	65.86	1.752	0.50	0.000	0.000
168.00	Ericsson RRU11	6	63.90	2.950	0.67	225.15	3.947	0.67	0.000	0.000
168.00	KMW AM-X-CD-16-65-00T-	3	48.50	8.020	0.79	321.30	9.806	0.79	0.000	0.000
168.00	Raycap DC6-48-60-18-8F	1	20.00	1.110	1.00	138.06	2.766	1.00	0.000	0.000
158.00	Alcatel-Lucent TD-RRH8x20-	3	66.00	3.700	0.67	220.81	3.805	0.67	0.000	0.000
158.00	RFS APXV9TM14-ALU-I20	3	55.10	6.340	0.78	240.02	9.264	0.78	0.000	0.000
158.00	RFS APXVSP18-C-A20	3	57.00	8.020	0.83	342.45	9.794	0.83	0.000	0.000
158.00	Round Low Profile Platform	1	1500.00	21.700	1.00	2,370.14	47.485	1.00	0.000	0.000
158.00	RRH	6	45.00	2.400	1.00	161.58	3.842	1.00	0.000	0.000
145.00	RFS APX16PV-16PVL-E-00	6	39.60	6.040	0.66	224.54	7.499	0.66	0.000	3.000
145.00	Round Low Profile Platform	1	1500.00	21.700	1.00	2,362.70	47.264	1.00	0.000	0.000
145.00	TTA	6	10.00	1.200	0.50	77.44	1.846	0.50	0.000	3.000
110.00	18' Dipole	3	55.00	6.770	1.00	395.24	17.404	1.00	0.000	9.000
110.00	2' x 4' Rectangular Grid Dish	1	40.00	4.750	1.00	235.09	46.557	1.00	0.000	0.000
110.00	5' Omni	3	10.00	1.000	1.00	62.66	1.653	1.00	0.000	3.000
110.00	Flat T-Arm	3	250.00	12.900	0.67	520.71	23.493	0.67	0.000	0.000
Totals		89	9084.90			26,875.48			Number of Loadings : 28	

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Exposed Width (in)	Exposed To Wind
0.00	178.00	(12) 1 5/8" Coax	0.00	N
0.00	178.00	(2) 1 5/8" Hybriflex	0.00	N
0.00	178.00	(4) 7/8" Coax	0.00	N
0.00	168.00	(1) 0.39" Fiber Trunk	0.00	N
0.00	168.00	(6) 1 5/8" Coax	0.00	N

Pole : 376046
Location : Mansfield Center 1 CT, CT
Height : 178.00 (ft)
Base Dia : 68.360 (in)
Top Dia : 25.500 (in)
Shape : 18 Sides
Taper : 0.252023 (in/ft)

Code: ANSI/TIA-222 Rev G
Struct Class : II
Exposure Category : B
Topographic Category : 1
Base Elev : 0.000 (ft)



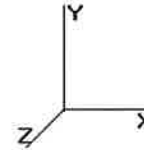
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0.00	168.00	(2) 3/4" Carflex Non-Met	0.00	N
0.00	158.00	(3) 1 1/4" Hybriflex	0.00	N
0.00	158.00	(3) 1 5/8" Fiber	0.00	N
0.00	145.00	(12) 1 5/8" Coax	0.00	N
0.00	110.00	(7) 7/8" Coax	0.00	N

Pole : 376046
 Location : Mansfield Center 1 CT, CT
 Height : 178.00 (ft)
 Base Dia : 68.360 (in)
 Top Dia : 25.500 (in)
 Shape : 18 Sides
 Taper : 0.252023 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1
 Base Elev : 0.000 (ft)



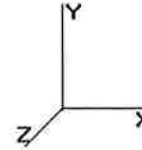
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Segment Properties (Max Len : 5 ft)

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	F'y (ksi)	S (in3)	Weight (lb)
0.00		0.4375	68.360	94.315	54,974.8	26.14	156.25	70.7	1584.	0.0
5.00		0.4375	67.100	92.566	51,971.5	25.63	153.37	71.3	1525.	1,589.8
10.00		0.4375	65.840	90.816	49,079.6	25.12	150.49	71.8	1468.	1,560.0
15.00		0.4375	64.580	89.066	46,297.0	24.62	147.61	72.4	1412.	1,530.2
20.00		0.4375	63.320	87.316	43,621.7	24.11	144.73	73.0	1356.	1,500.5
25.00		0.4375	62.059	85.567	41,051.4	23.60	141.85	73.6	1302.	1,470.7
30.00		0.4375	60.799	83.817	38,584.2	23.09	138.97	74.2	1249.	1,440.9
35.00		0.4375	59.539	82.067	36,217.8	22.59	136.09	74.8	1198.	1,411.2
40.00		0.4375	58.279	80.317	33,950.2	22.08	133.21	75.4	1147.	1,381.4
43.75	Bot - Section 2	0.4375	57.334	79.005	32,313.1	21.70	131.05	75.9	1110.	1,016.5
45.00		0.4375	57.019	78.568	31,779.3	21.57	130.33	76.0	1097.	626.5
50.00		0.4375	55.759	76.818	29,703.0	21.06	127.45	76.6	1049.	2,471.3
51.00	Top - Section 1	0.3750	56.257	66.511	26,241.4	25.04	150.02	71.9	918.7	487.6
55.00		0.3750	55.249	65.311	24,846.7	24.57	147.33	72.5	885.8	897.1
60.00		0.3750	53.989	63.811	23,174.0	23.98	143.97	73.2	845.4	1,098.4
65.00		0.3750	52.728	62.312	21,578.1	23.38	140.61	73.9	806.0	1,072.9
70.00		0.3750	51.468	60.812	20,057.2	22.79	137.25	74.6	767.6	1,047.4
75.00		0.3750	50.208	59.312	18,609.5	22.20	133.89	75.3	730.0	1,021.9
80.00		0.3750	48.948	57.812	17,233.1	21.61	130.53	76.0	693.4	996.4
85.00		0.3750	47.688	56.312	15,926.4	21.01	127.17	76.7	657.8	970.9
88.75	Bot - Section 3	0.3750	46.743	55.187	14,991.0	20.57	124.65	77.2	631.7	711.4
90.00		0.3750	46.428	54.813	14,687.5	20.42	123.81	77.4	623.1	471.7
94.75	Top - Section 2	0.3750	45.981	54.280	14,263.8	20.21	122.62	77.6	611.0	1,763.3
95.00		0.3750	45.918	54.205	14,204.8	20.18	122.45	77.7	609.3	46.1
100.00		0.3750	44.658	52.706	13,058.0	19.59	119.09	78.4	575.9	909.5
105.00		0.3750	43.398	51.206	11,974.7	19.00	115.73	79.1	543.5	884.0
110.00		0.3750	42.137	49.706	10,953.0	18.40	112.37	79.8	512.0	858.5
115.00		0.3750	40.877	48.206	9,991.2	17.81	109.01	80.5	481.4	832.9
120.00		0.3750	39.617	46.706	9,087.3	17.22	105.65	81.1	451.8	807.4
125.00		0.3750	38.357	45.207	8,239.7	16.63	102.29	81.8	423.1	781.9
129.00	Bot - Section 4	0.3750	37.349	44.007	7,600.9	16.15	99.60	82.4	400.8	607.1
130.00		0.3750	37.097	43.707	7,446.5	16.03	98.93	82.5	395.4	250.4
133.75	Top - Section 3	0.2500	36.652	28.884	4,835.7	24.44	146.61	72.7	259.9	923.9
135.00		0.2500	36.337	28.634	4,711.2	24.22	145.35	72.9	255.4	122.3
140.00		0.2500	35.077	27.634	4,234.7	23.33	140.31	74.0	237.8	478.7
145.00		0.2500	33.817	26.634	3,791.5	22.44	135.27	75.0	220.8	461.7
150.00		0.2500	32.557	25.634	3,380.3	21.55	130.23	76.1	204.5	444.6
155.00		0.2500	31.296	24.634	3,000.0	20.66	125.19	77.1	188.8	427.6
158.00		0.2500	30.540	24.035	2,786.1	20.13	122.16	77.7	179.7	248.4
160.00		0.2500	30.036	23.635	2,649.3	19.77	120.15	78.1	173.7	162.2
165.00		0.2500	28.776	22.635	2,327.1	18.89	115.10	79.2	159.3	393.6
168.00		0.2500	28.020	22.035	2,146.9	18.35	112.08	79.8	150.9	228.0
170.00		0.2500	27.516	21.635	2,032.1	18.00	110.06	80.2	145.5	148.6
175.00		0.2500	26.256	20.635	1,763.2	17.11	105.02	81.3	132.3	359.6
178.00		0.2500	25.500	20.035	1,613.8	16.57	102.00	81.9	124.7	207.6
										37,122.7

Pole : 376046
 Location : Mansfield Center 1 CT, CT
 Height : 178.00 (ft)
 Base Dia : 68.360 (in)
 Top Dia : 25.500 (in)
 Shape : 18 Sides
 Taper : 0.252023 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1
 Base Elev : 0.000 (ft)



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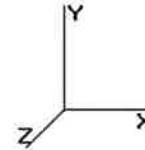
Load Case: 1.2D + 1.6W	100.00 mph with No Ice	23 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.20		
Wind Load Factor : 1.60		

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	17.024	18.726	483.9700	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	17.024	18.726	475.0490	0.650	0.000	5.00	28.656	18.63	558.1	0.0	1,907.7
10.00		1.00	0.70	17.024	18.726	466.1270	0.650	0.000	5.00	28.123	18.28	547.7	0.0	1,872.0
15.00		1.00	0.70	17.024	18.726	457.2060	0.650	0.000	5.00	27.590	17.93	537.3	0.0	1,836.3
20.00		1.00	0.70	17.024	18.726	448.2850	0.650	0.000	5.00	27.057	17.59	526.9	0.0	1,800.6
25.00		1.00	0.70	17.024	18.726	439.3640	0.650	0.000	5.00	26.524	17.24	516.6	0.0	1,764.8
30.00		1.00	0.70	17.038	18.742	430.6240	0.650	0.000	5.00	25.990	16.89	506.6	0.0	1,729.1
35.00		1.00	0.73	17.806	19.586	431.0880	0.650	0.000	5.00	25.457	16.55	518.6	0.0	1,693.4
40.00		1.00	0.76	18.498	20.348	430.0910	0.650	0.000	5.00	24.924	16.20	527.4	0.0	1,657.7
43.75	Bot - Section 2	1.00	0.78	18.978	20.876	428.5680	0.650	0.000	3.75	18.343	11.92	398.2	0.0	1,219.8
45.00		1.00	0.78	19.131	21.044	427.9320	0.650	0.000	1.25	6.127	3.98	134.1	0.0	751.8
50.00		1.00	0.81	19.716	21.687	424.8210	0.650	0.000	5.00	24.175	15.71	545.3	0.0	2,965.6
51.00	Top - Section 1	1.00	0.81	19.828	21.810	424.0990	0.650	0.000	1.00	4.771	3.10	108.2	0.0	585.2
55.00		1.00	0.83	20.260	22.286	426.7050	0.650	0.000	4.00	18.871	12.27	437.4	0.0	1,076.5
60.00		1.00	0.85	20.770	22.847	422.1880	0.650	0.000	5.00	23.109	15.02	549.1	0.0	1,318.1
65.00		1.00	0.87	21.250	23.376	417.0760	0.650	0.000	5.00	22.576	14.67	548.8	0.0	1,287.5
70.00		1.00	0.89	21.705	23.876	411.4420	0.650	0.000	5.00	22.043	14.33	547.3	0.0	1,256.9
75.00		1.00	0.91	22.137	24.351	405.3440	0.650	0.000	5.00	21.509	13.98	544.7	0.0	1,226.3
80.00		1.00	0.92	22.549	24.804	398.8310	0.650	0.000	5.00	20.976	13.63	541.1	0.0	1,195.6
85.00		1.00	0.94	22.943	25.238	391.9430	0.650	0.000	5.00	20.443	13.29	536.6	0.0	1,165.0
88.75	Bot - Section 3	1.00	0.95	23.228	25.551	386.5520	0.650	0.000	3.75	14.982	9.74	398.1	0.0	853.7
90.00		1.00	0.95	23.321	25.653	384.7150	0.650	0.000	1.25	5.007	3.25	133.6	0.0	566.0
94.75	Top - Section 2	1.00	0.97	23.666	26.033	377.5590	0.650	0.000	4.75	18.722	12.17	506.9	0.0	2,115.9
95.00		1.00	0.97	23.684	26.053	383.4380	0.650	0.000	0.25	0.972	0.63	26.3	0.0	55.4
100.00		1.00	0.98	24.034	26.437	375.6580	0.650	0.000	5.00	19.161	12.45	526.8	0.0	1,091.4
105.00		1.00	1.00	24.371	26.808	367.6110	0.650	0.000	5.00	18.628	12.11	519.4	0.0	1,060.8
110.00	Appertunance(s)	1.00	1.01	24.697	27.167	359.3170	0.650	0.000	5.00	18.095	11.76	511.2	0.0	1,030.1
115.00		1.00	1.02	25.013	27.514	350.7930	0.650	0.000	5.00	17.562	11.42	502.5	0.0	999.5
120.00		1.00	1.04	25.319	27.851	342.0520	0.650	0.000	5.00	17.028	11.07	493.2	0.0	968.9
125.00		1.00	1.05	25.616	28.178	333.1090	0.650	0.000	5.00	16.495	10.72	483.4	0.0	938.3
129.00	Bot - Section 4	1.00	1.06	25.848	28.432	325.8170	0.650	0.000	4.00	12.812	8.33	378.9	0.0	728.6
130.00		1.00	1.06	25.905	28.495	323.9760	0.650	0.000	1.00	3.192	2.07	94.6	0.0	300.5
133.7	Top - Section 3	1.00	1.07	26.116	28.728	317.0080	0.650	0.000	3.75	11.780	7.66	352.0	0.0	1,108.7
135.00		1.00	1.07	26.185	28.804	319.0530	0.650	0.000	1.25	3.860	2.51	115.6	0.0	146.8
140.00		1.00	1.08	26.459	29.105	309.5930	0.650	0.000	5.00	15.107	9.82	457.3	0.0	574.4
145.00	Appertunance(s)	1.00	1.09	26.726	29.398	299.9710	0.650	0.000	5.00	14.574	9.47	445.6	0.0	554.0
150.00		1.00	1.11	26.986	29.684	290.1950	0.650	0.000	5.00	14.041	9.13	433.5	0.0	533.6
155.00		1.00	1.12	27.240	29.964	280.2730	0.650	0.000	5.00	13.508	8.78	420.9	0.0	513.2
158.00	Appertunance(s)	1.00	1.12	27.389	30.128	274.2520	0.650	0.000	3.00	7.849	5.10	245.9	0.0	298.1
160.00		1.00	1.13	27.488	30.237	270.2110	0.650	0.000	2.00	5.126	3.33	161.2	0.0	194.6
165.00		1.00	1.14	27.731	30.504	260.0150	0.650	0.000	5.00	12.442	8.09	394.7	0.0	472.3
168.00	Appertunance(s)	1.00	1.14	27.874	30.661	253.8360	0.650	0.000	3.00	7.209	4.69	229.9	0.0	273.6
170.00		1.00	1.15	27.968	30.765	249.6920	0.650	0.000	2.00	4.699	3.05	150.4	0.0	178.3
175.00		1.00	1.16	28.201	31.021	239.2460	0.650	0.000	5.00	11.375	7.39	367.0	0.0	431.5
178.00	Appertunance(s)	1.00	1.16	28.338	31.172	232.9210	0.650	0.000	3.00	6.569	4.27	213.0	0.0	249.1
Totals:									178.00			17,691.9	0.0	44,547.2

Pole : 376046
 Location : Mansfield Center 1 CT, CT
 Height : 178.00 (ft)
 Base Dia : 68.360 (in)
 Top Dia : 25.500 (in)
 Shape : 18 Sides
 Taper : 0.252023 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1
 Base Elev : 0.000 (ft)



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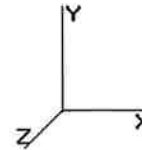
Load Case: 1.2D + 1.6W 100.00 mph with No Ice 23 Iterations
 Gust Response Factor 1.10 Wind Importance Factor : 1.00
 Dead Load Factor : 1.20
 Wind Load Factor : 1.60

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)
110.0	Flat T-Arm	3	24.697	27.167	0.67	0.75	19.45	0.000	0.000	845.30	0.00	0.00	900.00
110.0	5' Omni	3	24.888	27.377	1.00	0.80	2.40	0.000	3.000	105.13	0.00	315.38	36.00
110.0	2' x 4' Rectangular	1	24.697	27.167	1.00	0.80	3.80	0.000	0.000	165.18	0.00	0.00	48.00
110.0	18' Dipole	3	25.258	27.784	1.00	0.80	16.25	0.000	9.000	722.30	0.00	6,500.73	198.00
145.0	Round Low Profile PI	1	26.726	29.398	1.00	1.00	21.70	0.000	0.000	1,020.70	0.00	0.00	1,800.00
145.0	TTA	6	26.882	29.571	0.50	0.80	2.88	0.000	3.000	136.26	0.00	408.78	72.00
145.0	RFS APX16PV-16PVL-	6	26.882	29.571	0.66	0.80	19.13	0.000	3.000	905.32	0.00	2,715.97	285.12
158.0	Round Low Profile PI	1	27.389	30.128	1.00	1.00	21.70	0.000	0.000	1,046.05	0.00	0.00	1,800.00
158.0	RRH	6	27.389	30.128	1.00	0.80	11.52	0.000	0.000	555.32	0.00	0.00	324.00
158.0	Alcatel-Lucent TD-RR	3	27.389	30.128	0.67	0.80	5.95	0.000	0.000	286.80	0.00	0.00	237.60
158.0	RFS APXV9TM14-ALU-	3	27.389	30.128	0.78	0.80	11.87	0.000	0.000	572.12	0.00	0.00	198.36
158.0	RFS APXVSP18-C-	3	27.389	30.128	0.83	0.80	15.98	0.000	0.000	770.12	0.00	0.00	205.20
168.0	Raycap DC6-48-60-18-	1	27.874	30.661	1.00	1.00	1.11	0.000	0.000	54.45	0.00	0.00	24.00
168.0	Allgon LGP21401	6	27.874	30.661	0.50	1.00	3.30	0.000	0.000	161.89	0.00	0.00	101.52
168.0	Ericsson RRU11	6	27.874	30.661	0.67	1.00	11.86	0.000	0.000	581.78	0.00	0.00	460.08
168.0	Allgon 7770.00	3	27.874	30.661	0.77	1.00	12.73	0.000	0.000	624.41	0.00	0.00	126.00
168.0	KMW AM-X-CD-16-65-	3	27.874	30.661	0.79	1.00	19.01	0.000	0.000	932.46	0.00	0.00	174.60
178.0	5' Omni	1	28.451	31.296	1.00	0.75	1.02	0.000	2.500	51.08	0.00	127.69	18.00
178.0	2' x 4' Rectangular	1	28.338	31.172	1.00	0.75	3.56	0.000	0.000	177.68	0.00	0.00	48.00
178.0	18' Dipole	2	28.338	31.172	1.00	0.75	10.07	0.000	0.000	501.99	0.00	0.00	240.00
178.0	Alcatel-Lucent RRH 2	3	28.338	31.172	0.50	0.75	2.12	0.000	0.000	105.49	0.00	0.00	142.56
178.0	Alcatel-Lucent RRH2X	3	28.338	31.172	0.50	0.75	2.12	0.000	0.000	105.49	0.00	0.00	142.56
178.0	RFS DB-T1-6Z-8AB-0Z	2	28.338	31.172	0.67	0.75	4.82	0.000	0.000	240.60	0.00	0.00	264.00
178.0	Commscope LNX-	3	28.338	31.172	0.83	0.75	15.26	0.000	0.000	760.97	0.00	0.00	181.08
178.0	Commscope LNX-	3	28.338	31.172	0.83	0.75	15.26	0.000	0.000	760.97	0.00	0.00	170.64
178.0	Commscope HBXX-	6	28.338	31.172	0.81	0.75	31.09	0.000	0.000	1,550.71	0.00	0.00	285.84
178.0	Flat Platform w/ Han	1	28.338	31.172	1.00	1.00	42.40	0.000	0.000	2,114.70	0.00	0.00	2,400.00
178.0	RFS FD9R6004/2C-3L	6	28.338	31.172	0.50	0.75	0.83	0.000	0.000	41.52	0.00	0.00	18.72
										15,896.78			10,901.88

Pole : 376046
 Location : Mansfield Center 1 CT, CT
 Height : 178.00 (ft)
 Base Dia : 68.360 (in)
 Top Dia : 25.500 (in)
 Shape : 18 Sides
 Taper : 0.252023 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1
 Base Elev : 0.000 (ft)



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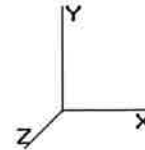
Load Case: 1.2D + 1.6W 100.00 mph with No Ice 23 Iterations
 Gust Response Factor 1.10 Wind Importance Factor : 1.00
 Dead Load Factor : 1.20
 Wind Load Factor : 1.60

Applied Segment Forces Summary

Seg Elev (ft)	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00	0.00	0.00	0.00	0.00
5.00	558.09	2,142.29	0.00	0.00
10.00	547.71	2,106.56	0.00	0.00
15.00	537.33	2,070.84	0.00	0.00
20.00	526.94	2,035.11	0.00	0.00
25.00	516.56	1,999.39	0.00	0.00
30.00	506.60	1,963.66	0.00	0.00
35.00	518.55	1,927.94	0.00	0.00
40.00	527.44	1,892.22	0.00	0.00
43.75	398.24	1,395.72	0.00	0.00
45.00	134.10	810.40	0.00	0.00
50.00	545.27	3,200.13	0.00	0.00
51.00	108.22	632.07	0.00	0.00
55.00	437.38	1,264.18	0.00	0.00
60.00	549.09	1,552.66	0.00	0.00
65.00	548.83	1,522.04	0.00	0.00
70.00	547.33	1,491.42	0.00	0.00
75.00	544.73	1,460.80	0.00	0.00
80.00	541.11	1,430.18	0.00	0.00
85.00	536.57	1,399.56	0.00	0.00
88.75	398.13	1,029.58	0.00	0.00
90.00	133.58	624.65	0.00	0.00
94.75	506.89	2,338.76	0.00	0.00
95.00	26.34	67.10	0.00	0.00
100.0	526.82	1,325.92	0.00	0.00
105.0	519.36	1,295.30	0.00	0.00
110.0	2,349.14	2,446.68	0.00	6,816.11
115.0	502.52	1,220.20	0.00	0.00
120.0	493.23	1,189.58	0.00	0.00
125.0	483.39	1,158.96	0.00	0.00
129.0	378.86	905.12	0.00	0.00
130.0	94.60	344.63	0.00	0.00
133.7	351.96	1,274.18	0.00	0.00
135.0	115.64	201.96	0.00	0.00
140.0	457.29	795.08	0.00	0.00
145.0	2,507.88	2,931.79	0.00	3,124.75
150.0	433.47	695.21	0.00	0.00
155.0	420.94	674.80	0.00	0.00
158.0	3,476.35	3,160.24	0.00	0.00
160.0	161.19	240.51	0.00	0.00
165.0	394.70	586.99	0.00	0.00
168.0	2,584.88	1,228.60	0.00	0.00
170.0	150.36	211.34	0.00	0.00
175.0	366.99	514.06	0.00	0.00
178.0	6,624.15	4,210.04	0.00	127.69
Totals:	33,588.69	62,968.47	0.00	10,068.55

Pole : 376046
 Location : Mansfield Center 1 CT, CT
 Height : 178.00 (ft)
 Base Dia : 68.360 (in)
 Top Dia : 25.500 (in)
 Shape : 18 Sides
 Taper : 0.252023 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1
 Base Elev : 0.000 (ft)



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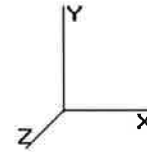
Load Case: 1.2D + 1.6W	100.00 mph with No Ice	23 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.20		
Wind Load Factor : 1.60		

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	-62.94	-33.65	0.00	-4,226.48	0.00	4,226.48	5,997.45	2,998.72	16,762.15	8,393.53	0.00	0.00	0.514
5.00	-60.73	-33.20	0.00	-4,058.24	0.00	4,058.24	5,935.94	2,967.97	16,280.50	8,152.35	0.06	-0.11	0.508
10.00	-58.56	-32.76	0.00	-3,892.23	0.00	3,892.23	5,872.56	2,936.28	15,800.21	7,911.85	0.23	-0.22	0.502
15.00	-56.43	-32.32	0.00	-3,728.43	0.00	3,728.43	5,807.29	2,903.65	15,321.57	7,672.17	0.51	-0.33	0.496
20.00	-54.34	-31.89	0.00	-3,566.81	0.00	3,566.81	5,740.14	2,870.07	14,844.87	7,433.47	0.92	-0.44	0.489
25.00	-52.28	-31.46	0.00	-3,407.36	0.00	3,407.36	5,671.12	2,835.56	14,370.42	7,195.89	1.44	-0.55	0.483
30.00	-50.26	-31.04	0.00	-3,250.06	0.00	3,250.06	5,600.21	2,800.10	13,898.50	6,959.58	2.08	-0.67	0.476
35.00	-48.28	-30.59	0.00	-3,094.89	0.00	3,094.89	5,527.41	2,763.71	13,429.42	6,724.69	2.84	-0.78	0.469
40.00	-46.34	-30.12	0.00	-2,941.93	0.00	2,941.93	5,452.74	2,726.37	12,963.45	6,491.36	3.73	-0.90	0.462
43.75	-44.92	-29.75	0.00	-2,828.98	0.00	2,828.98	5,395.50	2,697.75	12,616.21	6,317.48	4.74	-0.99	0.456
45.00	-44.07	-29.66	0.00	-2,791.80	0.00	2,791.80	5,376.19	2,688.09	12,500.91	6,259.75	4.74	-1.02	0.454
50.00	-40.84	-29.10	0.00	-2,643.51	0.00	2,643.51	5,297.75	2,648.88	12,042.08	6,029.99	5.88	-1.15	0.446
51.00	-40.18	-29.03	0.00	-2,614.40	0.00	2,614.40	4,306.76	2,153.38	9,900.44	4,957.58	6.12	-1.17	0.537
55.00	-38.87	-28.64	0.00	-2,498.30	0.00	2,498.30	4,261.83	2,130.92	9,619.25	4,816.78	7.14	-1.27	0.528
60.00	-37.26	-28.15	0.00	-2,355.08	0.00	2,355.08	4,203.99	2,101.99	9,269.32	4,641.55	8.55	-1.41	0.516
65.00	-35.68	-27.65	0.00	-2,214.34	0.00	2,214.34	4,144.26	2,072.13	8,921.36	4,467.31	10.10	-1.55	0.504
70.00	-34.14	-27.14	0.00	-2,076.09	0.00	2,076.09	4,082.65	2,041.33	8,575.69	4,294.22	11.80	-1.69	0.492
75.00	-32.63	-26.64	0.00	-1,940.37	0.00	1,940.37	4,019.16	2,009.58	8,232.60	4,122.42	13.65	-1.83	0.479
80.00	-31.16	-26.13	0.00	-1,807.19	0.00	1,807.19	3,953.79	1,976.89	7,892.38	3,952.06	15.65	-1.98	0.465
85.00	-29.72	-25.61	0.00	-1,676.56	0.00	1,676.56	3,886.54	1,943.27	7,555.33	3,783.28	17.80	-2.12	0.451
88.75	-28.67	-25.21	0.00	-1,580.54	0.00	1,580.54	3,834.86	1,917.43	7,304.79	3,657.82	19.51	-2.23	0.440
90.00	-28.02	-25.09	0.00	-1,549.04	0.00	1,549.04	3,817.40	1,908.70	7,221.73	3,616.23	20.09	-2.27	0.436
94.75	-25.67	-24.52	0.00	-1,429.86	0.00	1,429.86	3,792.42	1,896.21	7,104.25	3,557.41	22.42	-2.40	0.409
95.00	-25.57	-24.52	0.00	-1,423.73	0.00	1,423.73	3,788.88	1,894.44	7,087.74	3,549.14	22.55	-2.41	0.408
100.00	-24.21	-24.00	0.00	-1,301.12	0.00	1,301.12	3,717.10	1,858.55	6,759.50	3,384.77	25.14	-2.55	0.391
105.00	-22.89	-23.47	0.00	-1,181.13	0.00	1,181.13	3,643.45	1,821.72	6,435.43	3,222.50	27.89	-2.68	0.373
110.00	-20.51	-21.06	0.00	-1,056.95	0.00	1,056.95	3,567.91	1,783.95	6,115.83	3,062.46	30.77	-2.82	0.351
115.00	-19.27	-20.54	0.00	-951.67	0.00	951.67	3,490.48	1,745.24	5,800.98	2,904.80	33.79	-2.95	0.333
120.00	-18.06	-20.02	0.00	-848.99	0.00	848.99	3,411.18	1,705.59	5,491.19	2,749.67	36.94	-3.08	0.314
125.00	-16.90	-19.51	0.00	-748.88	0.00	748.88	3,330.00	1,665.00	5,186.74	2,597.22	40.23	-3.20	0.294
129.00	-15.99	-19.10	0.00	-670.85	0.00	670.85	3,263.70	1,631.85	4,947.23	2,477.29	42.95	-3.30	0.276
130.00	-15.64	-19.00	0.00	-651.75	0.00	651.75	3,246.93	1,623.47	4,887.93	2,447.60	43.65	-3.32	0.271
133.75	-14.37	-18.59	0.00	-580.51	0.00	580.51	1,888.69	944.35	2,827.82	1,416.01	46.29	-3.41	0.418
135.00	-14.14	-18.48	0.00	-557.28	0.00	557.28	1,879.08	939.54	2,788.91	1,396.53	47.19	-3.44	0.407
140.00	-13.33	-18.01	0.00	-464.88	0.00	464.88	1,839.46	919.73	2,634.12	1,319.02	50.87	-3.60	0.360
145.00	-10.53	-15.34	0.00	-371.70	0.00	371.70	1,797.97	898.98	2,480.87	1,242.28	54.72	-3.74	0.305
150.00	-9.83	-14.89	0.00	-294.98	0.00	294.98	1,754.58	877.29	2,329.46	1,166.46	58.69	-3.86	0.259
155.00	-9.17	-14.43	0.00	-220.55	0.00	220.55	1,709.32	854.66	2,180.17	1,091.71	62.80	-3.97	0.208
158.00	-6.25	-10.75	0.00	-177.25	0.00	177.25	1,681.26	840.63	2,091.74	1,047.43	65.31	-4.03	0.173
160.00	-6.01	-10.58	0.00	-155.75	0.00	155.75	1,662.18	831.09	2,033.31	1,018.16	67.00	-4.06	0.157
165.00	-5.44	-10.15	0.00	-102.87	0.00	102.87	1,613.16	806.58	1,889.16	945.98	71.29	-4.13	0.112
168.00	-4.40	-7.48	0.00	-72.43	0.00	72.43	1,582.84	791.42	1,804.10	903.39	73.90	-4.16	0.083
170.00	-4.20	-7.32	0.00	-57.46	0.00	57.46	1,562.25	781.13	1,748.02	875.31	75.64	-4.18	0.068
175.00	-3.71	-6.92	0.00	-20.87	0.00	20.87	1,509.46	754.73	1,610.20	806.29	80.03	-4.21	0.028
178.00	0.00	-6.62	0.00	-0.13	0.00	0.13	1,476.89	738.44	1,529.21	765.74	82.67	-4.21	0.000

Pole : 376046
 Location : Mansfield Center 1 CT, CT
 Height : 178.00 (ft)
 Base Dia : 68.360 (in)
 Top Dia : 25.500 (in)
 Shape : 18 Sides
 Taper : 0.252023 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1
 Base Elev : 0.000 (ft)



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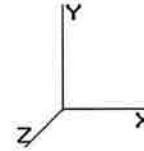
Load Case: 0.9D + 1.6W	100.00 mph with No Ice (Reduced DL)	23 Iterations
Gust Response Factor 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 0.90		
Wind Load Factor : 1.60		

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	17.024	18.726	483.9700.650	0.000	0.00	0.000	0.00	0.00	0.0	0.0	0.0
5.00		1.00	0.70	17.024	18.726	475.0490.650	0.000	5.00	28.656	18.63	18.63	558.1	0.0	1,430.8
10.00		1.00	0.70	17.024	18.726	466.1270.650	0.000	5.00	28.123	18.28	18.28	547.7	0.0	1,404.0
15.00		1.00	0.70	17.024	18.726	457.2060.650	0.000	5.00	27.590	17.93	17.93	537.3	0.0	1,377.2
20.00		1.00	0.70	17.024	18.726	448.2850.650	0.000	5.00	27.057	17.59	17.59	526.9	0.0	1,350.4
25.00		1.00	0.70	17.024	18.726	439.3640.650	0.000	5.00	26.524	17.24	17.24	516.6	0.0	1,323.6
30.00		1.00	0.70	17.038	18.742	430.6240.650	0.000	5.00	25.990	16.89	16.89	506.6	0.0	1,296.8
35.00		1.00	0.73	17.806	19.586	431.0880.650	0.000	5.00	25.457	16.55	16.55	518.6	0.0	1,270.0
40.00		1.00	0.76	18.498	20.348	430.0910.650	0.000	5.00	24.924	16.20	16.20	527.4	0.0	1,243.3
43.75	Bot - Section 2	1.00	0.78	18.978	20.876	428.5680.650	0.000	3.75	18.343	11.92	11.92	398.2	0.0	914.9
45.00		1.00	0.78	19.131	21.044	427.9320.650	0.000	1.25	6.127	3.98	3.98	134.1	0.0	563.8
50.00		1.00	0.81	19.716	21.687	424.8210.650	0.000	5.00	24.175	15.71	15.71	545.3	0.0	2,224.2
51.00	Top - Section 1	1.00	0.81	19.828	21.810	424.0990.650	0.000	1.00	4.771	3.10	3.10	108.2	0.0	438.9
55.00		1.00	0.83	20.260	22.286	426.7050.650	0.000	4.00	18.871	12.27	12.27	437.4	0.0	807.4
60.00		1.00	0.85	20.770	22.847	422.1880.650	0.000	5.00	23.109	15.02	15.02	549.1	0.0	988.6
65.00		1.00	0.87	21.250	23.376	417.0760.650	0.000	5.00	22.576	14.67	14.67	548.8	0.0	965.6
70.00		1.00	0.89	21.705	23.876	411.4420.650	0.000	5.00	22.043	14.33	14.33	547.3	0.0	942.7
75.00		1.00	0.91	22.137	24.351	405.3440.650	0.000	5.00	21.509	13.98	13.98	544.7	0.0	919.7
80.00		1.00	0.92	22.549	24.804	398.8310.650	0.000	5.00	20.976	13.63	13.63	541.1	0.0	896.7
85.00		1.00	0.94	22.943	25.238	391.9430.650	0.000	5.00	20.443	13.29	13.29	536.6	0.0	873.8
88.75	Bot - Section 3	1.00	0.95	23.228	25.551	386.5520.650	0.000	3.75	14.982	9.74	9.74	398.1	0.0	640.3
90.00		1.00	0.95	23.321	25.653	384.7150.650	0.000	1.25	5.007	3.25	3.25	133.6	0.0	424.5
94.75	Top - Section 2	1.00	0.97	23.666	26.033	377.5590.650	0.000	4.75	18.722	12.17	12.17	506.9	0.0	1,587.0
95.00		1.00	0.97	23.684	26.053	383.4380.650	0.000	0.25	0.972	0.63	0.63	26.3	0.0	41.5
100.00		1.00	0.98	24.034	26.437	375.6580.650	0.000	5.00	19.161	12.45	12.45	526.8	0.0	818.5
105.00		1.00	1.00	24.371	26.808	367.6110.650	0.000	5.00	18.628	12.11	12.11	519.4	0.0	795.6
110.00	Appertunance(s)	1.00	1.01	24.697	27.167	359.3170.650	0.000	5.00	18.095	11.76	11.76	511.2	0.0	772.6
115.00		1.00	1.02	25.013	27.514	350.7930.650	0.000	5.00	17.562	11.42	11.42	502.5	0.0	749.6
120.00		1.00	1.04	25.319	27.851	342.0520.650	0.000	5.00	17.028	11.07	11.07	493.2	0.0	726.7
125.00		1.00	1.05	25.616	28.178	333.1090.650	0.000	5.00	16.495	10.72	10.72	483.4	0.0	703.7
129.00	Bot - Section 4	1.00	1.06	25.848	28.432	325.8170.650	0.000	4.00	12.812	8.33	8.33	378.9	0.0	546.4
130.00		1.00	1.06	25.905	28.495	323.9760.650	0.000	1.00	3.192	2.07	2.07	94.6	0.0	225.4
133.7	Top - Section 3	1.00	1.07	26.116	28.728	317.0080.650	0.000	3.75	11.780	7.66	7.66	352.0	0.0	831.5
135.00		1.00	1.07	26.185	28.804	319.0530.650	0.000	1.25	3.860	2.51	2.51	115.6	0.0	110.1
140.00		1.00	1.08	26.459	29.105	309.5930.650	0.000	5.00	15.107	9.82	9.82	457.3	0.0	430.8
145.00	Appertunance(s)	1.00	1.09	26.726	29.398	299.9710.650	0.000	5.00	14.574	9.47	9.47	445.6	0.0	415.5
150.00		1.00	1.11	26.986	29.684	290.1950.650	0.000	5.00	14.041	9.13	9.13	433.5	0.0	400.2
155.00		1.00	1.12	27.240	29.964	280.2730.650	0.000	5.00	13.508	8.78	8.78	420.9	0.0	384.9
158.00	Appertunance(s)	1.00	1.12	27.389	30.128	274.2520.650	0.000	3.00	7.849	5.10	5.10	245.9	0.0	223.6
160.00		1.00	1.13	27.488	30.237	270.2110.650	0.000	2.00	5.126	3.33	3.33	161.2	0.0	146.0
165.00		1.00	1.14	27.731	30.504	260.0150.650	0.000	5.00	12.442	8.09	8.09	394.7	0.0	354.2
168.00	Appertunance(s)	1.00	1.14	27.874	30.661	253.8360.650	0.000	3.00	7.209	4.69	4.69	229.9	0.0	205.2
170.00		1.00	1.15	27.968	30.765	249.6920.650	0.000	2.00	4.699	3.05	3.05	150.4	0.0	133.7
175.00		1.00	1.16	28.201	31.021	239.2460.650	0.000	5.00	11.375	7.39	7.39	367.0	0.0	323.6
178.00	Appertunance(s)	1.00	1.16	28.338	31.172	232.9210.650	0.000	3.00	6.569	4.27	4.27	213.0	0.0	186.8
								Totals:	178.00			17,691.9	0.0	33,410.4

Pole : 376046
 Location : Mansfield Center 1 CT, CT
 Height : 178.00 (ft)
 Base Dia : 68.360 (in)
 Top Dia : 25.500 (in)
 Shape : 18 Sides
 Taper : 0.252023 (in/ft)

Code : ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1
 Base Elev : 0.000 (ft)



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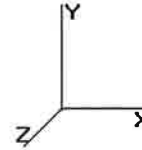
Load Case: 0.9D + 1.6W 100.00 mph with No Ice (Reduced DL) 23 Iterations
 Gust Response Factor 1.10 Wind Importance Factor : 1.00
 Dead Load Factor : 0.90
 Wind Load Factor : 1.60

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)
110.0	Flat T-Arm	3	24.697	27.167	0.67	0.75	19.45	0.000	0.000	845.30	0.00	0.00	675.00
110.0	5' Omni	3	24.888	27.377	1.00	0.80	2.40	0.000	3.000	105.13	0.00	315.38	27.00
110.0	2' x 4' Rectangular	1	24.697	27.167	1.00	0.80	3.80	0.000	0.000	165.18	0.00	0.00	36.00
110.0	18' Dipole	3	25.258	27.784	1.00	0.80	16.25	0.000	9.000	722.30	0.00	6,500.73	148.50
145.0	Round Low Profile PI	1	26.726	29.398	1.00	1.00	21.70	0.000	0.000	1,020.70	0.00	0.00	1,350.00
145.0	TTA	6	26.882	29.571	0.50	0.80	2.88	0.000	3.000	136.26	0.00	408.78	54.00
145.0	RFS APX16PV-16PVL-	6	26.882	29.571	0.66	0.80	19.13	0.000	3.000	905.32	0.00	2,715.97	213.84
158.0	Round Low Profile PI	1	27.389	30.128	1.00	1.00	21.70	0.000	0.000	1,046.05	0.00	0.00	1,350.00
158.0	RRH	6	27.389	30.128	1.00	0.80	11.52	0.000	0.000	555.32	0.00	0.00	243.00
158.0	Alcatel-Lucent TD-RR	3	27.389	30.128	0.67	0.80	5.95	0.000	0.000	286.80	0.00	0.00	178.20
158.0	RFS APXV9TM14-ALU-	3	27.389	30.128	0.78	0.80	11.87	0.000	0.000	572.12	0.00	0.00	148.77
158.0	RFS APXVSP18-C-	3	27.389	30.128	0.83	0.80	15.98	0.000	0.000	770.12	0.00	0.00	153.90
168.0	Raycap DC6-48-60-18-	1	27.874	30.661	1.00	1.00	1.11	0.000	0.000	54.45	0.00	0.00	18.00
168.0	Allgon LGP21401	6	27.874	30.661	0.50	1.00	3.30	0.000	0.000	161.89	0.00	0.00	76.14
168.0	Ericsson RRU11	6	27.874	30.661	0.67	1.00	11.86	0.000	0.000	581.78	0.00	0.00	345.06
168.0	Allgon 7770.00	3	27.874	30.661	0.77	1.00	12.73	0.000	0.000	624.41	0.00	0.00	94.50
168.0	KMW AM-X-CD-16-65-	3	27.874	30.661	0.79	1.00	19.01	0.000	0.000	932.46	0.00	0.00	130.95
178.0	5' Omni	1	28.451	31.296	1.00	0.75	1.02	0.000	2.500	51.08	0.00	127.69	13.50
178.0	2' x 4' Rectangular	1	28.338	31.172	1.00	0.75	3.56	0.000	0.000	177.68	0.00	0.00	36.00
178.0	18' Dipole	2	28.338	31.172	1.00	0.75	10.07	0.000	0.000	501.99	0.00	0.00	180.00
178.0	Alcatel-Lucent RRH 2	3	28.338	31.172	0.50	0.75	2.12	0.000	0.000	105.49	0.00	0.00	106.92
178.0	Alcatel-Lucent RRH2X	3	28.338	31.172	0.50	0.75	2.12	0.000	0.000	105.49	0.00	0.00	106.92
178.0	RFS DB-T1-6Z-8AB-0Z	2	28.338	31.172	0.67	0.75	4.82	0.000	0.000	240.60	0.00	0.00	198.00
178.0	Commscope LNX-	3	28.338	31.172	0.83	0.75	15.26	0.000	0.000	760.97	0.00	0.00	135.81
178.0	Commscope LNX-	3	28.338	31.172	0.83	0.75	15.26	0.000	0.000	760.97	0.00	0.00	127.98
178.0	Commscope HBXX-	6	28.338	31.172	0.81	0.75	31.09	0.000	0.000	1,550.71	0.00	0.00	214.38
178.0	Flat Platform w/ Han	1	28.338	31.172	1.00	1.00	42.40	0.000	0.000	2,114.70	0.00	0.00	1,800.00
178.0	RFS FD9R6004/2C-3L	6	28.338	31.172	0.50	0.75	0.83	0.000	0.000	41.52	0.00	0.00	14.04
										15,896.78			8,176.41

Pole : 376046
 Location : Mansfield Center 1 CT, CT
 Height : 178.00 (ft)
 Base Dia : 68.360 (in)
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 Shape : 18 Sides
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Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1
 Base Elev : 0.000 (ft)



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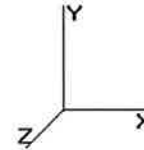
Load Case: 0.9D + 1.6W	100.00 mph with No Ice (Reduced DL)	23 Iterations
Gust Response Factor 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 0.90		
Wind Load Factor : 1.60		

Applied Segment Forces Summary

Seg Elev (ft)	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00	0.00	0.00	0.00	0.00
5.00	558.09	1,606.71	0.00	0.00
10.00	547.71	1,579.92	0.00	0.00
15.00	537.33	1,553.13	0.00	0.00
20.00	526.94	1,526.33	0.00	0.00
25.00	516.56	1,499.54	0.00	0.00
30.00	506.60	1,472.75	0.00	0.00
35.00	518.55	1,445.95	0.00	0.00
40.00	527.44	1,419.16	0.00	0.00
43.75	398.24	1,046.79	0.00	0.00
45.00	134.10	607.80	0.00	0.00
50.00	545.27	2,400.10	0.00	0.00
51.00	108.22	474.05	0.00	0.00
55.00	437.38	948.13	0.00	0.00
60.00	549.09	1,164.50	0.00	0.00
65.00	548.83	1,141.53	0.00	0.00
70.00	547.33	1,118.57	0.00	0.00
75.00	544.73	1,095.60	0.00	0.00
80.00	541.11	1,072.64	0.00	0.00
85.00	536.57	1,049.67	0.00	0.00
88.75	398.13	772.18	0.00	0.00
90.00	133.58	468.49	0.00	0.00
94.75	506.89	1,754.07	0.00	0.00
95.00	26.34	50.32	0.00	0.00
100.0	526.82	994.44	0.00	0.00
105.0	519.36	971.48	0.00	0.00
110.0	2,349.14	1,835.01	0.00	6,816.11
115.0	502.52	915.15	0.00	0.00
120.0	493.23	892.18	0.00	0.00
125.0	483.39	869.22	0.00	0.00
129.0	378.86	678.84	0.00	0.00
130.0	94.60	258.47	0.00	0.00
133.7	351.96	955.64	0.00	0.00
135.0	115.64	151.47	0.00	0.00
140.0	457.29	596.31	0.00	0.00
145.0	2,507.88	2,198.84	0.00	3,124.75
150.0	433.47	521.41	0.00	0.00
155.0	420.94	506.10	0.00	0.00
158.0	3,476.35	2,370.18	0.00	0.00
160.0	161.19	180.38	0.00	0.00
165.0	394.70	440.24	0.00	0.00
168.0	2,584.88	921.45	0.00	0.00
170.0	150.36	158.51	0.00	0.00
175.0	366.99	385.55	0.00	0.00
178.0	6,624.15	3,157.53	0.00	127.69
Totals:	33,588.69	47,226.34	0.00	10,068.55

Pole : 376046
 Location : Mansfield Center 1 CT, CT
 Height : 178.00 (ft)
 Base Dia : 68.360 (in)
 Top Dia : 25.500 (in)
 Shape : 18 Sides
 Taper : 0.252023 (in/ft)

Code : ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1
 Base Elev : 0.000 (ft)



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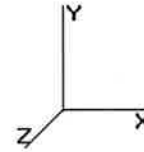
Load Case: 0.9D + 1.6W	100.00 mph with No Ice (Reduced DL)	23 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 0.90		
Wind Load Factor : 1.60		

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	-47.19	-33.63	0.00	-4,189.81	0.00	4,189.81	5,997.45	2,998.72	16,762.15	8,393.53	0.00	0.00	0.507
5.00	-45.53	-33.16	0.00	-4,021.65	0.00	4,021.65	5,935.94	2,967.97	16,280.50	8,152.35	0.06	-0.11	0.501
10.00	-43.89	-32.69	0.00	-3,855.86	0.00	3,855.86	5,872.56	2,936.28	15,800.21	7,911.85	0.23	-0.21	0.495
15.00	-42.27	-32.23	0.00	-3,692.42	0.00	3,692.42	5,807.29	2,903.65	15,321.57	7,672.17	0.51	-0.32	0.489
20.00	-40.69	-31.77	0.00	-3,531.29	0.00	3,531.29	5,740.14	2,870.07	14,844.87	7,433.47	0.91	-0.43	0.482
25.00	-39.13	-31.32	0.00	-3,372.45	0.00	3,372.45	5,671.12	2,835.56	14,370.42	7,195.89	1.42	-0.55	0.476
30.00	-37.60	-30.87	0.00	-3,215.87	0.00	3,215.87	5,600.21	2,800.10	13,898.50	6,959.58	2.06	-0.66	0.469
35.00	-36.10	-30.41	0.00	-3,061.52	0.00	3,061.52	5,527.41	2,763.71	13,429.42	6,724.69	2.81	-0.78	0.462
40.00	-34.64	-29.92	0.00	-2,909.48	0.00	2,909.48	5,452.74	2,726.37	12,963.45	6,491.36	3.69	-0.89	0.455
43.75	-33.57	-29.54	0.00	-2,797.28	0.00	2,797.28	5,395.50	2,697.75	12,616.21	6,317.48	4.43	-0.98	0.449
45.00	-32.92	-29.44	0.00	-2,760.36	0.00	2,760.36	5,376.19	2,688.09	12,500.91	6,259.75	4.69	-1.01	0.447
50.00	-30.50	-28.89	0.00	-2,613.16	0.00	2,613.16	5,297.75	2,648.88	12,042.08	6,029.99	5.82	-1.13	0.439
51.00	-29.99	-28.80	0.00	-2,584.27	0.00	2,584.27	4,306.76	2,153.38	9,900.44	4,957.58	6.06	-1.16	0.528
55.00	-29.00	-28.41	0.00	-2,469.06	0.00	2,469.06	4,261.83	2,130.92	9,619.25	4,816.78	7.07	-1.26	0.520
60.00	-27.78	-27.90	0.00	-2,327.04	0.00	2,327.04	4,203.99	2,101.99	9,269.32	4,641.55	8.47	-1.39	0.508
65.00	-26.58	-27.38	0.00	-2,187.56	0.00	2,187.56	4,144.26	2,072.13	8,921.36	4,467.31	10.00	-1.53	0.496
70.00	-25.41	-26.87	0.00	-2,050.64	0.00	2,050.64	4,082.65	2,041.33	8,575.69	4,294.22	11.68	-1.67	0.484
75.00	-24.27	-26.35	0.00	-1,916.31	0.00	1,916.31	4,019.16	2,009.58	8,232.60	4,122.42	13.51	-1.81	0.471
80.00	-23.15	-25.83	0.00	-1,784.57	0.00	1,784.57	3,953.79	1,976.89	7,892.38	3,952.06	15.49	-1.96	0.458
85.00	-22.07	-25.30	0.00	-1,655.42	0.00	1,655.42	3,886.54	1,943.27	7,555.33	3,783.28	17.61	-2.10	0.443
88.75	-21.28	-24.90	0.00	-1,560.52	0.00	1,560.52	3,834.86	1,917.43	7,304.79	3,657.82	19.30	-2.21	0.432
90.00	-20.78	-24.78	0.00	-1,529.39	0.00	1,529.39	3,817.40	1,908.70	7,221.73	3,616.23	19.88	-2.24	0.429
94.75	-19.02	-24.23	0.00	-1,411.67	0.00	1,411.67	3,792.42	1,896.21	7,104.25	3,557.41	22.18	-2.38	0.402
95.00	-18.94	-24.23	0.00	-1,405.61	0.00	1,405.61	3,788.88	1,894.44	7,087.74	3,549.14	22.31	-2.38	0.401
100.00	-17.91	-23.70	0.00	-1,284.48	0.00	1,284.48	3,717.10	1,858.55	6,759.50	3,384.77	24.88	-2.52	0.384
105.00	-16.91	-23.18	0.00	-1,165.99	0.00	1,165.99	3,643.45	1,821.72	6,435.43	3,222.50	27.59	-2.65	0.367
110.00	-15.14	-20.78	0.00	-1,043.29	0.00	1,043.29	3,567.91	1,783.95	6,115.83	3,062.46	30.44	-2.78	0.345
115.00	-14.21	-20.26	0.00	-939.41	0.00	939.41	3,490.48	1,745.24	5,800.98	2,904.80	33.42	-2.91	0.328
120.00	-13.30	-19.75	0.00	-838.11	0.00	838.11	3,411.18	1,705.59	5,491.19	2,749.67	36.54	-3.04	0.309
125.00	-12.42	-19.25	0.00	-739.35	0.00	739.35	3,330.00	1,665.00	5,186.74	2,597.22	39.79	-3.16	0.289
129.00	-11.75	-18.84	0.00	-662.37	0.00	662.37	3,263.70	1,631.85	4,947.23	2,477.29	42.48	-3.26	0.271
130.00	-11.47	-18.74	0.00	-643.53	0.00	643.53	3,246.93	1,623.47	4,887.93	2,447.60	43.16	-3.28	0.267
133.75	-10.52	-18.35	0.00	-573.24	0.00	573.24	1,888.69	944.35	2,827.82	1,416.01	45.78	-3.37	0.411
135.00	-10.35	-18.24	0.00	-550.31	0.00	550.31	1,879.08	939.54	2,788.91	1,396.53	46.66	-3.40	0.400
140.00	-9.74	-17.77	0.00	-459.11	0.00	459.11	1,839.46	919.73	2,634.12	1,319.02	50.31	-3.55	0.354
145.00	-7.66	-15.15	0.00	-367.13	0.00	367.13	1,797.97	898.98	2,480.87	1,242.28	54.10	-3.69	0.300
150.00	-7.14	-14.70	0.00	-291.39	0.00	291.39	1,754.58	877.29	2,329.46	1,166.46	58.04	-3.82	0.254
155.00	-6.65	-14.25	0.00	-217.91	0.00	217.91	1,709.32	854.66	2,180.17	1,091.71	62.09	-3.92	0.204
158.00	-4.51	-10.62	0.00	-175.16	0.00	175.16	1,681.26	840.63	2,091.74	1,047.43	64.57	-3.98	0.170
160.00	-4.34	-10.45	0.00	-153.92	0.00	153.92	1,662.18	831.09	2,033.31	1,018.16	66.25	-4.01	0.154
165.00	-3.92	-10.03	0.00	-101.65	0.00	101.65	1,613.16	806.58	1,889.16	945.98	70.48	-4.08	0.110
168.00	-3.18	-7.39	0.00	-71.56	0.00	71.56	1,582.84	791.42	1,804.10	903.39	73.06	-4.11	0.081
170.00	-3.03	-7.23	0.00	-56.78	0.00	56.78	1,562.25	781.13	1,748.02	875.31	74.78	-4.13	0.067
175.00	-2.67	-6.84	0.00	-20.63	0.00	20.63	1,509.46	754.73	1,610.20	806.29	79.12	-4.16	0.027
178.00	0.00	-6.62	0.00	-0.13	0.00	0.13	1,476.89	738.44	1,529.21	765.74	81.73	-4.16	0.000

Pole : 376046
 Location : Mansfield Center 1 CT, CT
 Height : 178.00 (ft)
 Base Dia : 68.360 (in)
 Top Dia : 25.500 (in)
 Shape : 18 Sides
 Taper : 0.252023 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1
 Base Elev : 0.000 (ft)



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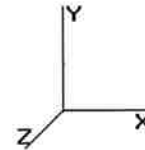
Load Case: 1.2D + 1.0Di + 1.0Wi	50.00 mph with 1.00 in Radial Ice	23 Iterations
Gust Response Factor: 1.10	Ice Dead Load Factor: 1.00	Wind Importance Factor: 1.00
Dead Load Factor: 1.20		Ice Importance Factor: 1.00
Wind Load Factor: 1.00		

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	0.0	0.0	0.0
5.00		1.00	0.70	4.256	4.682	0.000	1.200	1.656	5.00	30.036	36.04	168.7	713.3	2,621.0
10.00		1.00	0.70	4.256	4.682	0.000	1.200	1.775	5.00	29.602	35.52	166.3	751.8	2,623.8
15.00		1.00	0.70	4.256	4.682	0.000	1.200	1.848	5.00	29.130	34.96	163.7	769.1	2,605.4
20.00		1.00	0.70	4.256	4.682	0.000	1.200	1.902	5.00	28.642	34.37	160.9	777.2	2,577.7
25.00		1.00	0.70	4.256	4.682	0.000	1.200	1.945	5.00	28.145	33.77	158.1	779.9	2,544.7
30.00		1.00	0.70	4.260	4.686	0.000	1.200	1.981	5.00	27.641	33.17	155.4	779.0	2,508.1
35.00		1.00	0.73	4.451	4.897	0.000	1.200	2.012	5.00	27.134	32.56	159.4	775.6	2,469.0
40.00		1.00	0.76	4.625	5.087	0.000	1.200	2.039	5.00	26.623	31.95	162.5	770.3	2,427.9
43.75	Bot - Section 2	1.00	0.78	4.744	5.219	0.000	1.200	2.057	3.75	19.629	23.55	122.9	573.9	1,793.8
45.00		1.00	0.78	4.783	5.261	0.000	1.200	2.063	1.25	6.557	7.87	41.4	193.3	945.0
50.00		1.00	0.81	4.929	5.422	0.000	1.200	2.085	5.00	25.913	31.10	168.6	765.1	3,730.7
51.00	Top - Section 1	1.00	0.81	4.957	5.453	0.000	1.200	2.089	1.00	5.119	6.14	33.5	152.7	737.8
55.00		1.00	0.83	5.065	5.572	0.000	1.200	2.105	4.00	20.274	24.33	135.5	604.9	1,681.4
60.00		1.00	0.85	5.193	5.712	0.000	1.200	2.123	5.00	24.878	29.85	170.5	746.2	2,064.3
65.00		1.00	0.87	5.313	5.844	0.000	1.200	2.140	5.00	24.359	29.23	170.8	735.5	2,023.0
70.00		1.00	0.89	5.426	5.969	0.000	1.200	2.156	5.00	23.839	28.61	170.8	724.1	1,981.0
75.00		1.00	0.91	5.534	6.088	0.000	1.200	2.171	5.00	23.319	27.98	170.4	712.2	1,938.5
80.00		1.00	0.92	5.637	6.201	0.000	1.200	2.185	5.00	22.797	27.36	169.6	699.8	1,895.4
85.00		1.00	0.94	5.736	6.309	0.000	1.200	2.198	5.00	22.275	26.73	168.7	686.8	1,851.8
88.75	Bot - Section 3	1.00	0.95	5.807	6.388	0.000	1.200	2.208	3.75	16.362	19.63	125.4	507.6	1,361.3
90.00		1.00	0.95	5.830	6.413	0.000	1.200	2.211	1.25	5.467	6.56	42.1	171.0	737.0
94.75	Top - Section 2	1.00	0.97	5.917	6.508	0.000	1.200	2.222	4.75	20.482	24.58	160.0	637.3	2,753.3
95.00		1.00	0.97	5.921	6.513	0.000	1.200	2.223	0.25	1.065	1.28	8.3	33.5	88.9
100.00		1.00	0.98	6.008	6.609	0.000	1.200	2.234	5.00	21.023	25.23	166.7	656.1	1,747.5
105.00		1.00	1.00	6.093	6.702	0.000	1.200	2.245	5.00	20.499	24.60	164.9	641.8	1,702.5
110.00	Appertunance(s)	1.00	1.01	6.174	6.792	0.000	1.200	2.256	5.00	19.975	23.97	162.8	627.1	1,657.2
115.00		1.00	1.02	6.253	6.879	0.000	1.200	2.266	5.00	19.450	23.34	160.5	612.1	1,611.7
120.00		1.00	1.04	6.330	6.963	0.000	1.200	2.276	5.00	18.925	22.71	158.1	596.9	1,565.8
125.00		1.00	1.05	6.404	7.044	0.000	1.200	2.285	5.00	18.399	22.08	155.5	581.4	1,519.7
129.00	Bot - Section 4	1.00	1.06	6.462	7.108	0.000	1.200	2.292	4.00	14.340	17.21	122.3	455.1	1,183.7
130.00		1.00	1.06	6.476	7.124	0.000	1.200	2.294	1.00	3.574	4.29	30.6	114.6	415.1
133.7	Top - Section 3	1.00	1.07	6.529	7.182	0.000	1.200	2.300	3.75	13.218	15.86	113.9	420.8	1,529.4
135.00		1.00	1.07	6.546	7.201	0.000	1.200	2.303	1.25	4.340	5.21	37.5	139.3	286.0
140.00		1.00	1.08	6.615	7.276	0.000	1.200	2.311	5.00	17.033	20.44	148.7	540.9	1,115.3
145.00	Appertunance(s)	1.00	1.09	6.681	7.350	0.000	1.200	2.319	5.00	16.507	19.81	145.6	524.6	1,078.6
150.00		1.00	1.11	6.746	7.421	0.000	1.200	2.327	5.00	15.980	19.18	142.3	508.2	1,041.7
155.00		1.00	1.12	6.810	7.491	0.000	1.200	2.335	5.00	15.453	18.54	138.9	491.5	1,004.7
158.00	Appertunance(s)	1.00	1.12	6.847	7.532	0.000	1.200	2.339	3.00	9.018	10.82	81.5	288.9	587.0
160.00		1.00	1.13	6.872	7.559	0.000	1.200	2.342	2.00	5.907	7.09	53.6	189.9	384.5
165.00		1.00	1.14	6.933	7.626	0.000	1.200	2.349	5.00	14.399	17.28	131.8	457.7	930.0
168.00	Appertunance(s)	1.00	1.14	6.968	7.665	0.000	1.200	2.353	3.00	8.386	10.06	77.1	268.5	542.1
170.00		1.00	1.15	6.992	7.691	0.000	1.200	2.356	2.00	5.485	6.58	50.6	176.2	354.5
175.00		1.00	1.16	7.050	7.755	0.000	1.200	2.363	5.00	13.345	16.01	124.2	423.3	854.8
178.00	Appertunance(s)	1.00	1.16	7.085	7.793	0.000	1.200	2.367	3.00	7.753	9.30	72.5	247.7	496.8
Totals:									178.00			5,593.3	23,022.6	67,569.8

Pole : 376046
 Location : Mansfield Center 1 CT, CT
 Height : 178.00 (ft)
 Base Dia : 68.360 (in)
 Top Dia : 25.500 (in)
 Shape : 18 Sides
 Taper : 0.252023 (in/ft)

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 Topographic Category : 1
 Base Elev : 0.000 (ft)



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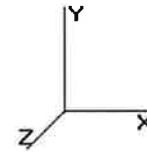
Load Case: 1.2D + 1.0Di + 1.0Wi	50.00 mph with 1.00 in Radial Ice	23 Iterations
Gust Response Factor : 1.10	Ice Dead Load Factor : 1.00	Wind Importance Factor : 1.00
Dead Load Factor : 1.20		Ice Importance Factor : 1.00
Wind Load Factor : 1.00		

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)
110.0	Flat T-Arm	3	6.174	6.792	0.67	0.75	35.42	0.000	0.000	240.53	0.00	0.00	1,520.12
110.0	5' Omni	3	6.222	6.844	1.00	0.80	3.97	0.000	3.000	27.16	0.00	81.47	193.98
110.0	2' x 4' Rectangular	1	6.174	6.792	1.00	0.80	37.25	0.000	0.000	252.97	0.00	0.00	218.09
110.0	18' Dipole	3	6.315	6.946	1.00	0.80	41.77	0.000	9.000	290.13	0.00	2,611.16	1,218.71
145.0	Round Low Profile PI	1	6.681	7.350	1.00	1.00	47.26	0.000	0.000	347.37	0.00	0.00	2,462.70
145.0	TTA	6	6.721	7.393	0.50	0.80	4.43	0.000	3.000	32.75	0.00	98.24	476.63
145.0	RFS APX16PV-16PVL-	6	6.721	7.393	0.66	0.80	23.76	0.000	3.000	175.64	0.00	526.91	1,394.74
158.0	Round Low Profile PI	1	6.847	7.532	1.00	1.00	47.48	0.000	0.000	357.66	0.00	0.00	2,470.14
158.0	RRH	6	6.847	7.532	1.00	0.80	18.44	0.000	0.000	138.89	0.00	0.00	874.11
158.0	Alcatel-Lucent TD-RR	3	6.847	7.532	0.67	0.80	6.12	0.000	0.000	46.09	0.00	0.00	702.02
158.0	RFS APXV9TM14-ALU-	3	6.847	7.532	0.78	0.80	17.34	0.000	0.000	130.63	0.00	0.00	634.62
158.0	RFS APXVSP18-C-	3	6.847	7.532	0.83	0.80	19.51	0.000	0.000	146.95	0.00	0.00	1,061.56
168.0	Raycap DC6-48-60-18-	1	6.968	7.665	1.00	1.00	2.77	0.000	0.000	21.21	0.00	0.00	142.06
168.0	Allgon LGP21401	6	6.968	7.665	0.50	1.00	5.26	0.000	0.000	40.28	0.00	0.00	412.08
168.0	Ericsson RRU11	6	6.968	7.665	0.67	1.00	15.87	0.000	0.000	121.62	0.00	0.00	1,427.60
168.0	Allgon 7770.00	3	6.968	7.665	0.77	1.00	16.09	0.000	0.000	123.31	0.00	0.00	716.57
168.0	KMW AM-X-CD-16-65-	3	6.968	7.665	0.79	1.00	23.24	0.000	0.000	178.15	0.00	0.00	993.00
178.0	5' Omni	1	7.113	7.824	1.00	0.75	2.17	0.000	2.500	16.94	0.00	42.36	125.99
178.0	2' x 4' Rectangular	1	7.085	7.793	1.00	0.75	36.46	0.000	0.000	284.16	0.00	0.00	209.51
178.0	18' Dipole	2	7.085	7.793	1.00	0.75	10.62	0.000	0.000	82.75	0.00	0.00	677.32
178.0	Alcatel-Lucent RRH 2	3	7.085	7.793	0.50	0.75	3.04	0.000	0.000	23.66	0.00	0.00	441.82
178.0	Alcatel-Lucent RRH2X	3	7.085	7.793	0.50	0.75	3.04	0.000	0.000	23.66	0.00	0.00	441.82
178.0	RFS DB-T1-6Z-8AB-0Z	2	7.085	7.793	0.67	0.75	6.04	0.000	0.000	47.10	0.00	0.00	662.99
178.0	Commscope LNX-	3	7.085	7.793	0.83	0.75	18.65	0.000	0.000	145.31	0.00	0.00	1,066.10
178.0	Commscope LNX-	3	7.085	7.793	0.83	0.75	18.65	0.000	0.000	145.31	0.00	0.00	1,055.66
178.0	Commscope HBXX-	6	7.085	7.793	0.81	0.75	42.96	0.000	0.000	334.75	0.00	0.00	1,387.10
178.0	Flat Platform w/ Han	1	7.085	7.793	1.00	1.00	70.90	0.000	0.000	552.55	0.00	0.00	3,881.55
178.0	RFS FD9R6004/2C-3L	6	7.085	7.793	0.50	0.75	1.59	0.000	0.000	12.38	0.00	0.00	151.18
										4,339.88			27,019.76

Pole : 376046
 Location : Mansfield Center 1 CT, CT
 Height : 178.00 (ft)
 Base Dia : 68.360 (in)
 Top Dia : 25.500 (in)
 Shape : 18 Sides
 Taper : 0.252023 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1
 Base Elev : 0.000 (ft)



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Load Case: 1.2D + 1.0Di + 1.0Wi 50.00 mph with 1.00 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

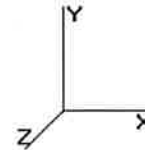
Wind Load Factor : 1.00

Applied Segment Forces Summary

Seg Elev (ft)	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00	0.00	0.00	0.00	0.00
5.00	168.74	2,855.57	0.00	0.00
10.00	166.30	2,858.33	0.00	0.00
15.00	163.65	2,839.95	0.00	0.00
20.00	160.91	2,812.29	0.00	0.00
25.00	158.11	2,779.25	0.00	0.00
30.00	155.42	2,742.67	0.00	0.00
35.00	159.43	2,703.54	0.00	0.00
40.00	162.52	2,662.49	0.00	0.00
43.75	122.93	1,969.66	0.00	0.00
45.00	41.40	1,003.68	0.00	0.00
50.00	168.59	3,965.25	0.00	0.00
51.00	33.50	784.74	0.00	0.00
55.00	135.55	1,869.04	0.00	0.00
60.00	170.52	2,298.83	0.00	0.00
65.00	170.82	2,257.53	0.00	0.00
70.00	170.76	2,215.56	0.00	0.00
75.00	170.35	2,173.01	0.00	0.00
80.00	169.64	2,129.93	0.00	0.00
85.00	168.65	2,086.39	0.00	0.00
88.75	125.42	1,537.21	0.00	0.00
90.00	42.08	795.62	0.00	0.00
94.75	159.96	2,976.09	0.00	0.00
95.00	8.32	100.61	0.00	0.00
100.0	166.74	1,982.07	0.00	0.00
105.0	164.86	1,937.08	0.00	0.00
110.0	973.58	5,042.69	0.00	2,692.63
115.0	160.54	1,832.34	0.00	0.00
120.0	158.12	1,786.50	0.00	0.00
125.0	155.53	1,740.40	0.00	0.00
129.0	122.32	1,360.24	0.00	0.00
130.0	30.56	459.22	0.00	0.00
133.7	113.92	1,694.96	0.00	0.00
135.0	37.50	341.22	0.00	0.00
140.0	148.72	1,336.02	0.00	0.00
145.0	701.34	5,633.37	0.00	625.16
150.0	142.31	1,203.38	0.00	0.00
155.0	138.91	1,166.31	0.00	0.00
158.0	901.73	6,426.39	0.00	0.00
160.0	53.58	430.39	0.00	0.00
165.0	131.77	1,044.69	0.00	0.00
168.0	561.70	4,302.17	0.00	0.00
170.0	50.62	387.57	0.00	0.00
175.0	124.19	937.34	0.00	0.00
178.0	1,741.07	10,647.38	0.00	42.36
Totals:	9,933.17	102,108.94	0.00	3,360.14

Pole : 376046
 Location : Mansfield Center 1 CT, CT
 Height : 178.00 (ft)
 Base Dia : 68.360 (in)
 Top Dia : 25.500 (in)
 Shape : 18 Sides
 Taper : 0.252023 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1
 Base Elev : 0.000 (ft)



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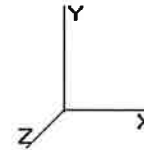
Load Case: 1.2D + 1.0Di + 1.0Wi	50.00 mph with 1.00 in Radial Ice	23 Iterations
Gust Response Factor : 1.10	Ice Dead Load Factor : 1.00	Wind Importance Factor : 1.00
Dead Load Factor : 1.20		Ice Importance Factor : 1.00
Wind Load Factor : 1.00		

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	-102.11	-9.96	0.00	-1,254.71	0.00	1,254.71	5,997.45	2,998.72	16,762.15	8,393.53	0.00	0.00	0.167
5.00	-99.25	-9.85	0.00	-1,204.91	0.00	1,204.91	5,935.94	2,967.97	16,280.50	8,152.35	0.02	-0.03	0.165
10.00	-96.38	-9.73	0.00	-1,155.67	0.00	1,155.67	5,872.56	2,936.28	15,800.21	7,911.85	0.07	-0.06	0.162
15.00	-93.54	-9.62	0.00	-1,107.00	0.00	1,107.00	5,807.29	2,903.65	15,321.57	7,672.17	0.15	-0.10	0.160
20.00	-90.72	-9.51	0.00	-1,058.90	0.00	1,058.90	5,740.14	2,870.07	14,844.87	7,433.47	0.27	-0.13	0.158
25.00	-87.93	-9.39	0.00	-1,011.36	0.00	1,011.36	5,671.12	2,835.56	14,370.42	7,195.89	0.43	-0.16	0.156
30.00	-85.19	-9.28	0.00	-964.40	0.00	964.40	5,600.21	2,800.10	13,898.50	6,959.58	0.62	-0.20	0.154
35.00	-82.48	-9.16	0.00	-917.99	0.00	917.99	5,527.41	2,763.71	13,429.42	6,724.69	0.84	-0.23	0.151
40.00	-79.81	-9.03	0.00	-872.19	0.00	872.19	5,452.74	2,726.37	12,963.45	6,491.36	1.11	-0.27	0.149
43.75	-77.84	-8.92	0.00	-838.32	0.00	838.32	5,395.50	2,697.75	12,616.21	6,317.48	1.33	-0.29	0.147
45.00	-76.83	-8.91	0.00	-827.17	0.00	827.17	5,376.19	2,688.09	12,500.91	6,259.75	1.41	-0.30	0.146
50.00	-72.87	-8.74	0.00	-782.64	0.00	782.64	5,297.75	2,648.88	12,042.08	6,029.99	1.74	-0.34	0.144
51.00	-72.08	-8.73	0.00	-773.90	0.00	773.90	4,306.76	2,153.38	9,900.44	4,957.58	1.82	-0.35	0.173
55.00	-70.20	-8.62	0.00	-738.99	0.00	738.99	4,261.83	2,130.92	9,619.25	4,816.78	2.12	-0.38	0.170
60.00	-67.90	-8.49	0.00	-695.87	0.00	695.87	4,203.99	2,101.99	9,269.32	4,641.55	2.54	-0.42	0.166
65.00	-65.64	-8.35	0.00	-653.44	0.00	653.44	4,144.26	2,072.13	8,921.36	4,467.31	3.00	-0.46	0.162
70.00	-63.42	-8.20	0.00	-611.71	0.00	611.71	4,082.65	2,041.33	8,575.69	4,294.22	3.50	-0.50	0.158
75.00	-61.24	-8.06	0.00	-570.70	0.00	570.70	4,019.16	2,009.58	8,232.60	4,122.42	4.05	-0.54	0.154
80.00	-59.11	-7.91	0.00	-530.41	0.00	530.41	3,953.79	1,976.89	7,892.38	3,952.06	4.64	-0.59	0.149
85.00	-57.02	-7.76	0.00	-490.86	0.00	490.86	3,886.54	1,943.27	7,555.33	3,783.28	5.28	-0.63	0.144
88.75	-55.48	-7.63	0.00	-461.78	0.00	461.78	3,834.86	1,917.43	7,304.79	3,657.82	5.78	-0.66	0.141
90.00	-54.68	-7.61	0.00	-452.23	0.00	452.23	3,817.40	1,908.70	7,221.73	3,616.23	5.96	-0.67	0.139
94.75	-51.70	-7.43	0.00	-416.10	0.00	416.10	3,792.42	1,896.21	7,104.25	3,557.41	6.64	-0.71	0.131
95.00	-51.60	-7.44	0.00	-414.24	0.00	414.24	3,788.88	1,894.44	7,087.74	3,549.14	6.68	-0.71	0.130
100.00	-49.62	-7.28	0.00	-377.05	0.00	377.05	3,717.10	1,858.55	6,759.50	3,384.77	7.45	-0.75	0.125
105.00	-47.68	-7.12	0.00	-340.64	0.00	340.64	3,643.45	1,821.72	6,435.43	3,222.50	8.26	-0.79	0.119
110.00	-42.64	-6.11	0.00	-302.33	0.00	302.33	3,567.91	1,783.95	6,115.83	3,062.46	9.11	-0.83	0.111
115.00	-40.81	-5.95	0.00	-271.80	0.00	271.80	3,490.48	1,745.24	5,800.98	2,904.80	9.99	-0.87	0.105
120.00	-39.02	-5.78	0.00	-242.07	0.00	242.07	3,411.18	1,705.59	5,491.19	2,749.67	10.92	-0.90	0.099
125.00	-37.28	-5.62	0.00	-213.15	0.00	213.15	3,330.00	1,665.00	5,186.74	2,597.22	11.89	-0.94	0.093
129.00	-35.92	-5.49	0.00	-190.67	0.00	190.67	3,263.70	1,631.85	4,947.23	2,477.29	12.69	-0.97	0.088
130.00	-35.46	-5.46	0.00	-185.18	0.00	185.18	3,246.93	1,623.47	4,887.93	2,447.60	12.89	-0.97	0.087
133.75	-33.77	-5.33	0.00	-164.71	0.00	164.71	1,888.69	944.35	2,827.82	1,416.01	13.66	-1.00	0.134
135.00	-33.43	-5.30	0.00	-158.06	0.00	158.06	1,879.08	939.54	2,788.91	1,396.53	13.93	-1.01	0.131
140.00	-32.09	-5.15	0.00	-131.57	0.00	131.57	1,839.46	919.73	2,634.12	1,319.02	15.01	-1.05	0.117
145.00	-26.47	-4.36	0.00	-105.20	0.00	105.20	1,797.97	898.98	2,480.87	1,242.28	16.13	-1.09	0.099
150.00	-25.26	-4.21	0.00	-83.41	0.00	83.41	1,754.58	877.29	2,329.46	1,166.46	17.29	-1.13	0.086
155.00	-24.10	-4.06	0.00	-62.37	0.00	62.37	1,709.32	854.66	2,180.17	1,091.71	18.49	-1.16	0.071
158.00	-17.69	-3.03	0.00	-50.20	0.00	50.20	1,681.26	840.63	2,091.74	1,047.43	19.22	-1.17	0.058
160.00	-17.26	-2.97	0.00	-44.15	0.00	44.15	1,662.18	831.09	2,033.31	1,018.16	19.71	-1.18	0.054
165.00	-16.22	-2.82	0.00	-29.30	0.00	29.30	1,613.16	806.58	1,889.16	945.98	20.96	-1.20	0.041
168.00	-11.93	-2.17	0.00	-20.84	0.00	20.84	1,582.84	791.42	1,804.10	903.39	21.72	-1.21	0.031
170.00	-11.54	-2.11	0.00	-16.51	0.00	16.51	1,562.25	781.13	1,748.02	875.31	22.23	-1.22	0.026
175.00	-10.61	-1.97	0.00	-5.95	0.00	5.95	1,509.46	754.73	1,610.20	806.29	23.51	-1.22	0.014
178.00	0.00	-1.74	0.00	-0.04	0.00	0.04	1,476.89	738.44	1,529.21	765.74	24.28	-1.23	0.000

Pole : 376046
 Location : Mansfield Center 1 CT, CT
 Height : 178.00 (ft)
 Base Dia : 68.360 (in)
 Top Dia : 25.500 (in)
 Shape : 18 Sides
 Taper : 0.252023 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1
 Base Elev : 0.000 (ft)



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Load Case: 1.2D + 1.0E	Dead Load with Seismic	21 Iterations
Gust Response Factor 1.10	Sds : 0.19	Ss : 0.17
Dead Load Factor : 1.20	Seismic Load Factor : 1.00	Sd1 : 0.10
Wind Load Factor : 0.00	Structure Frequency : 0.4290	SA : 0.04
	Seismic Importance Factor : 1.00	

Total Segment Forces (Factored)

R : 1.50

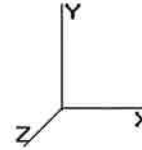
Seg Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)
0.00		0.00	0.00	0.00	0.00	0.00
5.00		1589.79	0.00	0.03	0.02	21.21
10.00		1560.02	0.01	0.05	0.03	32.21
15.00		1530.25	0.01	0.06	0.03	37.97
20.00		1500.48	0.02	0.07	0.04	40.87
25.00		1470.71	0.04	0.07	0.04	42.20
30.00		1440.94	0.05	0.07	0.04	42.75
35.00		1411.17	0.07	0.07	0.04	42.94
40.00		1381.40	0.10	0.07	0.04	43.00
43.75	Bot - Section 2	1016.51	0.11	0.07	0.04	32.15
45.00		626.47	0.12	0.07	0.03	19.92
50.00		2471.33	0.15	0.07	0.03	80.00
51.00	Top - Section 1	487.63	0.16	0.07	0.03	15.83
55.00		897.12	0.18	0.07	0.03	29.35
60.00		1098.44	0.21	0.06	0.02	35.84
65.00		1072.92	0.25	0.05	0.02	34.15
70.00		1047.40	0.29	0.05	0.01	31.43
75.00		1021.88	0.34	0.04	0.01	27.46
80.00		996.37	0.38	0.02	0.01	22.09
85.00		970.85	0.43	0.01	0.01	15.39
88.75	Bot - Section 3	711.39	0.47	-0.01	0.01	7.23
90.00		471.68	0.48	-0.01	0.01	3.83
94.75	Top - Section 2	1763.29	0.54	-0.03	0.01	-0.10
95.00		46.14	0.54	-0.03	0.01	-0.02
100.00		909.49	0.60	-0.05	0.01	-8.30
105.00		883.97	0.66	-0.07	0.02	-14.83
110.00	Appertunance(s)	1232.25	0.72	-0.09	0.03	-27.73
115.00		832.93	0.79	-0.11	0.05	-21.29
120.00		807.42	0.86	-0.12	0.07	-20.58
125.00		781.90	0.93	-0.12	0.10	-17.23
129.00	Bot - Section 4	607.15	0.99	-0.11	0.13	-10.17
130.00		250.41	1.01	-0.11	0.14	-3.78
133.7	Top - Section 3	923.89	1.07	-0.09	0.17	-6.96
135.00		122.33	1.09	-0.08	0.18	-0.56
140.00		478.67	1.17	-0.02	0.23	4.55
145.00	Appertunance(s)	716.66	1.25	0.06	0.30	19.45
150.00		444.65	1.34	0.18	0.37	21.51
155.00		427.63	1.43	0.35	0.47	31.32
158.00	Appertunance(s)	741.01	1.49	0.47	0.53	66.64
160.00		162.21	1.53	0.57	0.58	16.51
165.00		393.61	1.62	0.85	0.70	52.77
168.00	Appertunance(s)	720.60	1.68	1.06	0.79	111.86
170.00		148.60	1.72	1.22	0.85	25.28
175.00		359.59	1.83	1.66	1.02	75.51
178.00	Appertunance(s)	3467.09	1.89	1.98	1.14	817.53
Totals:		41,996.20				1,769.19

Total Wind : 33,588.7

Seismic Base Shear Not Tested Due To User Override - Analysis Required

Pole : 376046
Location : Mansfield Center 1 CT, CT
Height : 178.00 (ft)
Base Dia : 68.360 (in)
Top Dia : 25.500 (in)
Shape : 18 Sides
Taper : 0.252023 (in/ft)

Code: ANSI/TIA-222 Rev G
Struct Class : II
Exposure Category : B
Topographic Category : 1
Base Elev : 0.000 (ft)



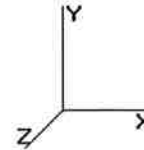
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Load Case: 1.2D + 1.0E	Dead Load with Seismic		21 Iterations
Gust Response Factor 1.10		Sds : 0.19	Ss : 0.17
Dead Load Factor : 1.20	Seismic Load Factor : 1.00	Sd1 : 0.10	S1 : 0.06
Wind Load Factor : 0.00	Structure Frequency : 0.4290	SA : 0.04	Seismic Importance Factor : 1.00

Pole : 376046
 Location : Mansfield Center 1 CT, CT
 Height : 178.00 (ft)
 Base Dia : 68.360 (in)
 Top Dia : 25.500 (in)
 Shape : 18 Sides
 Taper : 0.252023 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1
 Base Elev : 0.000 (ft)



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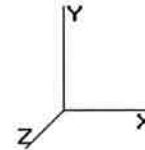
Load Case: 1.2D + 1.0E	Dead Load with Seismic	21 Iterations
Gust Response Factor 1.10	Sds : 0.19	Ss : 0.17
Dead Load Factor : 1.20	Seismic Load Factor : 1.00	Sd1 : 0.10
Wind Load Factor : 0.00	Structure Frequency : 0.4290	SA : 0.04
		Seismic Importance Factor : 1.00

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	-62.97	-1.90	0.00	-253.12	0.00	253.12	5,997.45	2,998.72	16,762.15	8,393.53	0.00	0.00	0.041
5.00	-60.83	-1.89	0.00	-243.61	0.00	243.61	5,935.94	2,967.97	16,280.50	8,152.35	0.00	-0.01	0.040
10.00	-58.72	-1.86	0.00	-234.16	0.00	234.16	5,872.56	2,936.28	15,800.21	7,911.85	0.01	-0.01	0.040
15.00	-56.65	-1.83	0.00	-224.85	0.00	224.85	5,807.29	2,903.65	15,321.57	7,672.17	0.03	-0.02	0.039
20.00	-54.61	-1.80	0.00	-215.69	0.00	215.69	5,740.14	2,870.07	14,844.87	7,433.47	0.06	-0.03	0.039
25.00	-52.61	-1.76	0.00	-206.71	0.00	206.71	5,671.12	2,835.56	14,370.42	7,195.89	0.09	-0.03	0.038
30.00	-50.65	-1.72	0.00	-197.91	0.00	197.91	5,600.21	2,800.10	13,898.50	6,959.58	0.13	-0.04	0.037
35.00	-48.72	-1.68	0.00	-189.30	0.00	189.30	5,527.41	2,763.71	13,429.42	6,724.69	0.17	-0.05	0.037
40.00	-46.83	-1.64	0.00	-180.89	0.00	180.89	5,452.74	2,726.37	12,963.45	6,491.36	0.22	-0.05	0.036
43.75	-45.43	-1.61	0.00	-174.72	0.00	174.72	5,395.50	2,697.75	12,616.21	6,317.48	0.27	-0.06	0.036
45.00	-44.62	-1.60	0.00	-172.71	0.00	172.71	5,376.19	2,688.09	12,500.91	6,259.75	0.29	-0.06	0.036
50.00	-41.42	-1.52	0.00	-164.73	0.00	164.73	5,297.75	2,648.88	12,042.08	6,029.99	0.36	-0.07	0.035
51.00	-40.79	-1.50	0.00	-163.21	0.00	163.21	4,306.76	2,153.38	9,900.44	4,957.58	0.37	-0.07	0.042
55.00	-39.53	-1.48	0.00	-157.20	0.00	157.20	4,261.83	2,130.92	9,619.25	4,816.78	0.43	-0.08	0.042
60.00	-37.97	-1.44	0.00	-149.82	0.00	149.82	4,203.99	2,101.99	9,269.32	4,641.55	0.52	-0.09	0.041
65.00	-36.45	-1.41	0.00	-142.60	0.00	142.60	4,144.26	2,072.13	8,921.36	4,467.31	0.61	-0.10	0.041
70.00	-34.96	-1.38	0.00	-135.54	0.00	135.54	4,082.65	2,041.33	8,575.69	4,294.22	0.72	-0.10	0.040
75.00	-33.50	-1.36	0.00	-128.61	0.00	128.61	4,019.16	2,009.58	8,232.60	4,122.42	0.83	-0.11	0.040
80.00	-32.07	-1.34	0.00	-121.81	0.00	121.81	3,953.79	1,976.89	7,892.38	3,952.06	0.96	-0.12	0.039
85.00	-30.67	-1.33	0.00	-115.11	0.00	115.11	3,886.54	1,943.27	7,555.33	3,783.28	1.09	-0.13	0.038
88.75	-29.64	-1.32	0.00	-110.13	0.00	110.13	3,834.86	1,917.43	7,304.79	3,657.82	1.20	-0.14	0.038
90.00	-29.01	-1.32	0.00	-108.49	0.00	108.49	3,817.40	1,908.70	7,221.73	3,616.23	1.24	-0.14	0.038
94.75	-26.67	-1.31	0.00	-102.23	0.00	102.23	3,792.42	1,896.21	7,104.25	3,557.41	1.38	-0.15	0.036
95.00	-26.61	-1.32	0.00	-101.90	0.00	101.90	3,788.88	1,894.44	7,087.74	3,549.14	1.39	-0.15	0.036
100.00	-25.28	-1.32	0.00	-95.32	0.00	95.32	3,717.10	1,858.55	6,759.50	3,384.77	1.56	-0.16	0.035
105.00	-23.99	-1.32	0.00	-88.74	0.00	88.74	3,643.45	1,821.72	6,435.43	3,222.50	1.73	-0.17	0.034
110.00	-21.54	-1.31	0.00	-82.15	0.00	82.15	3,567.91	1,783.95	6,115.83	3,062.46	1.92	-0.18	0.033
115.00	-20.32	-1.31	0.00	-75.59	0.00	75.59	3,490.48	1,745.24	5,800.98	2,904.80	2.12	-0.19	0.032
120.00	-19.13	-1.31	0.00	-69.02	0.00	69.02	3,411.18	1,705.59	5,491.19	2,749.67	2.33	-0.20	0.031
125.00	-17.97	-1.31	0.00	-62.46	0.00	62.46	3,330.00	1,665.00	5,186.74	2,597.22	2.55	-0.21	0.029
129.00	-17.06	-1.31	0.00	-57.22	0.00	57.22	3,263.70	1,631.85	4,947.23	2,477.29	2.73	-0.22	0.028
130.00	-16.72	-1.31	0.00	-55.91	0.00	55.91	3,246.93	1,623.47	4,887.93	2,447.60	2.78	-0.22	0.028
133.75	-15.45	-1.31	0.00	-51.00	0.00	51.00	1,888.69	944.35	2,827.82	1,416.01	2.96	-0.23	0.044
135.00	-15.24	-1.31	0.00	-49.37	0.00	49.37	1,879.08	939.54	2,788.91	1,396.53	3.02	-0.24	0.043
140.00	-14.45	-1.30	0.00	-42.83	0.00	42.83	1,839.46	919.73	2,634.12	1,319.02	3.27	-0.25	0.040
145.00	-11.52	-1.27	0.00	-36.32	0.00	36.32	1,797.97	898.98	2,480.87	1,242.28	3.54	-0.26	0.036
150.00	-10.82	-1.25	0.00	-29.96	0.00	29.96	1,754.58	877.29	2,329.46	1,166.46	3.82	-0.27	0.032
155.00	-10.15	-1.22	0.00	-23.70	0.00	23.70	1,709.32	854.66	2,180.17	1,091.71	4.12	-0.29	0.028
158.00	-6.99	-1.14	0.00	-20.05	0.00	20.05	1,681.26	840.63	2,091.74	1,047.43	4.30	-0.29	0.023
160.00	-6.75	-1.12	0.00	-17.78	0.00	17.78	1,662.18	831.09	2,033.31	1,018.16	4.42	-0.30	0.022
165.00	-6.16	-1.06	0.00	-12.19	0.00	12.19	1,613.16	806.58	1,889.16	945.98	4.74	-0.30	0.017
168.00	-4.93	-0.94	0.00	-9.00	0.00	9.00	1,582.84	791.42	1,804.10	903.39	4.93	-0.31	0.013
170.00	-4.72	-0.92	0.00	-7.11	0.00	7.11	1,562.25	781.13	1,748.02	875.31	5.06	-0.31	0.011
175.00	-4.21	-0.84	0.00	-2.52	0.00	2.52	1,509.46	754.73	1,610.20	806.29	5.38	-0.31	0.006
178.00	0.00	-0.82	0.00	0.00	0.00	0.00	1,476.89	738.44	1,529.21	765.74	5.58	-0.31	0.000

Pole : 376046
 Location : Mansfield Center 1 CT, CT
 Height : 178.00 (ft)
 Base Dia : 68.360 (in)
 Top Dia : 25.500 (in)
 Shape : 18 Sides
 Taper : 0.252023 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1
 Base Elev : 0.000 (ft)



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Load Case: 0.9D + 1.0E	Dead Load with Seismic (Reduced DL)	21 Iterations
Gust Response Factor 1.10	Sds : 0.19	Ss : 0.17
Dead Load Factor : 0.90	Seismic Load Factor : 1.00	Sd1 : 0.10
Wind Load Factor : 0.00	Structure Frequency : 0.4290	SA : 0.04
	Seismic Importance Factor : 1.00	

Total Segment Forces (Factored)

R : 1.50

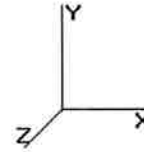
Seg Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)
0.00		0.00	0.00	0.00	0.00	0.00
5.00		1589.79	0.00	0.03	0.02	21.21
10.00		1560.02	0.01	0.05	0.03	32.21
15.00		1530.25	0.01	0.06	0.03	37.97
20.00		1500.48	0.02	0.07	0.04	40.87
25.00		1470.71	0.04	0.07	0.04	42.20
30.00		1440.94	0.05	0.07	0.04	42.75
35.00		1411.17	0.07	0.07	0.04	42.94
40.00		1381.40	0.10	0.07	0.04	43.00
43.75	Bot - Section 2	1016.51	0.11	0.07	0.04	32.15
45.00		626.47	0.12	0.07	0.03	19.92
50.00		2471.33	0.15	0.07	0.03	80.00
51.00	Top - Section 1	487.63	0.16	0.07	0.03	15.83
55.00		897.12	0.18	0.07	0.03	29.35
60.00		1098.44	0.21	0.06	0.02	35.84
65.00		1072.92	0.25	0.05	0.02	34.15
70.00		1047.40	0.29	0.05	0.01	31.43
75.00		1021.88	0.34	0.04	0.01	27.46
80.00		996.37	0.38	0.02	0.01	22.09
85.00		970.85	0.43	0.01	0.01	15.39
88.75	Bot - Section 3	711.39	0.47	-0.01	0.01	7.23
90.00		471.68	0.48	-0.01	0.01	3.83
94.75	Top - Section 2	1763.29	0.54	-0.03	0.01	-0.10
95.00		46.14	0.54	-0.03	0.01	-0.02
100.0		909.49	0.60	-0.05	0.01	-8.30
105.0		883.97	0.66	-0.07	0.02	-14.83
110.0	Appertunance(s)	1232.25	0.72	-0.09	0.03	-27.73
115.0		832.93	0.79	-0.11	0.05	-21.29
120.0		807.42	0.86	-0.12	0.07	-20.58
125.0		781.90	0.93	-0.12	0.10	-17.23
129.0	Bot - Section 4	607.15	0.99	-0.11	0.13	-10.17
130.0		250.41	1.01	-0.11	0.14	-3.78
133.7	Top - Section 3	923.89	1.07	-0.09	0.17	-6.96
135.0		122.33	1.09	-0.08	0.18	-0.56
140.0		478.67	1.17	-0.02	0.23	4.55
145.0	Appertunance(s)	716.66	1.25	0.06	0.30	19.45
150.0		444.65	1.34	0.18	0.37	21.51
155.0		427.63	1.43	0.35	0.47	31.32
158.0	Appertunance(s)	741.01	1.49	0.47	0.53	66.64
160.0		162.21	1.53	0.57	0.58	16.51
165.0		393.61	1.62	0.85	0.70	52.77
168.0	Appertunance(s)	720.60	1.68	1.06	0.79	111.86
170.0		148.60	1.72	1.22	0.85	25.28
175.0		359.59	1.83	1.66	1.02	75.51
178.0	Appertunance(s)	3467.09	1.89	1.98	1.14	817.53
Totals:		41,996.20				1,769.19

Total Wind : 33,588.7

Seismic Base Shear Not Tested Due To User Override - Analysis Required

Pole : 376046
Location : Mansfield Center 1 CT, CT
Height : 178.00 (ft)
Base Dia : 68.360 (in)
Top Dia : 25.500 (in)
Shape : 18 Sides
Taper : 0.252023 (in/ft)

Code: ANSI/TIA-222 Rev G
Struct Class : II
Exposure Category : B
Topographic Category : 1
Base Elev : 0.000 (ft)



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Load Case: 0.9D + 1.0E

Dead Load with Seismic (Reduced DL)

21 Iterations

Gust Response Factor 1.10

Sds : 0.19

Ss : 0.17

Dead Load Factor : 0.90

Seismic Load Factor : 1.00

Sd1 : 0.10

S1 : 0.06

Wind Load Factor : 0.00

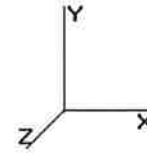
Structure Frequency : 0.4290

SA : 0.04

Seismic Importance Factor : 1.00

Pole : 376046
 Location : Mansfield Center 1 CT, CT
 Height : 178.00 (ft)
 Base Dia : 68.360 (in)
 Top Dia : 25.500 (in)
 Shape : 18 Sides
 Taper : 0.252023 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1
 Base Elev : 0.000 (ft)



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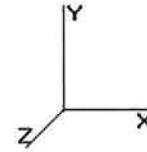
Load Case: 0.9D + 1.0E	Dead Load with Seismic (Reduced DL)	21 Iterations
Gust Response Factor 1.10	Sds : 0.19	Ss : 0.17
Dead Load Factor : 0.90	Seismic Load Factor : 1.00	Sd1 : 0.10
Wind Load Factor : 0.00	Structure Frequency : 0.4290	SA : 0.04
	Seismic Importance Factor : 1.00	

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	-47.23	-1.90	0.00	-250.75	0.00	250.75	5,997.45	2,998.72	16,762.15	8,393.53	0.00	0.00	0.038
5.00	-45.62	-1.89	0.00	-241.24	0.00	241.24	5,935.94	2,967.97	16,280.50	8,152.35	0.00	-0.01	0.037
10.00	-44.04	-1.86	0.00	-231.81	0.00	231.81	5,872.56	2,936.28	15,800.21	7,911.85	0.01	-0.01	0.037
15.00	-42.49	-1.83	0.00	-222.51	0.00	222.51	5,807.29	2,903.65	15,321.57	7,672.17	0.03	-0.02	0.036
20.00	-40.96	-1.79	0.00	-213.38	0.00	213.38	5,740.14	2,870.07	14,844.87	7,433.47	0.05	-0.03	0.036
25.00	-39.46	-1.75	0.00	-204.44	0.00	204.44	5,671.12	2,835.56	14,370.42	7,195.89	0.09	-0.03	0.035
30.00	-37.99	-1.71	0.00	-195.69	0.00	195.69	5,600.21	2,800.10	13,898.50	6,959.58	0.12	-0.04	0.035
35.00	-36.54	-1.67	0.00	-187.13	0.00	187.13	5,527.41	2,763.71	13,429.42	6,724.69	0.17	-0.05	0.034
40.00	-35.12	-1.63	0.00	-178.77	0.00	178.77	5,452.74	2,726.37	12,963.45	6,491.36	0.22	-0.05	0.034
43.75	-34.07	-1.60	0.00	-172.65	0.00	172.65	5,395.50	2,697.75	12,616.21	6,317.48	0.27	-0.06	0.034
45.00	-33.47	-1.58	0.00	-170.65	0.00	170.65	5,376.19	2,688.09	12,500.91	6,259.75	0.28	-0.06	0.033
50.00	-31.07	-1.50	0.00	-162.73	0.00	162.73	5,297.75	2,648.88	12,042.08	6,029.99	0.35	-0.07	0.033
51.00	-30.59	-1.49	0.00	-161.23	0.00	161.23	4,306.76	2,153.38	9,900.44	4,957.58	0.37	-0.07	0.040
55.00	-29.64	-1.46	0.00	-155.28	0.00	155.28	4,261.83	2,130.92	9,619.25	4,816.78	0.43	-0.08	0.039
60.00	-28.48	-1.43	0.00	-147.97	0.00	147.97	4,203.99	2,101.99	9,269.32	4,641.55	0.51	-0.09	0.039
65.00	-27.34	-1.40	0.00	-140.83	0.00	140.83	4,144.26	2,072.13	8,921.36	4,467.31	0.61	-0.09	0.038
70.00	-26.22	-1.37	0.00	-133.84	0.00	133.84	4,082.65	2,041.33	8,575.69	4,294.22	0.71	-0.10	0.038
75.00	-25.12	-1.34	0.00	-127.01	0.00	127.01	4,019.16	2,009.58	8,232.60	4,122.42	0.82	-0.11	0.037
80.00	-24.05	-1.32	0.00	-120.29	0.00	120.29	3,953.79	1,976.89	7,892.38	3,952.06	0.95	-0.12	0.037
85.00	-23.00	-1.31	0.00	-113.69	0.00	113.69	3,886.54	1,943.27	7,555.33	3,783.28	1.08	-0.13	0.036
88.75	-22.23	-1.30	0.00	-108.78	0.00	108.78	3,834.86	1,917.43	7,304.79	3,657.82	1.19	-0.14	0.036
90.00	-21.76	-1.30	0.00	-107.16	0.00	107.16	3,817.40	1,908.70	7,221.73	3,616.23	1.22	-0.14	0.035
94.75	-20.01	-1.30	0.00	-100.99	0.00	100.99	3,792.42	1,896.21	7,104.25	3,557.41	1.37	-0.15	0.034
95.00	-19.95	-1.30	0.00	-100.67	0.00	100.67	3,788.88	1,894.44	7,087.74	3,549.14	1.38	-0.15	0.034
100.00	-18.96	-1.30	0.00	-94.18	0.00	94.18	3,717.10	1,858.55	6,759.50	3,384.77	1.54	-0.16	0.033
105.00	-17.99	-1.30	0.00	-87.70	0.00	87.70	3,643.45	1,821.72	6,435.43	3,222.50	1.72	-0.17	0.032
110.00	-16.15	-1.29	0.00	-81.21	0.00	81.21	3,567.91	1,783.95	6,115.83	3,062.46	1.90	-0.18	0.031
115.00	-15.24	-1.29	0.00	-74.73	0.00	74.73	3,490.48	1,745.24	5,800.98	2,904.80	2.10	-0.19	0.030
120.00	-14.35	-1.29	0.00	-68.26	0.00	68.26	3,411.18	1,705.59	5,491.19	2,749.67	2.30	-0.20	0.029
125.00	-13.48	-1.29	0.00	-61.79	0.00	61.79	3,330.00	1,665.00	5,186.74	2,597.22	2.52	-0.21	0.028
129.00	-12.80	-1.29	0.00	-56.61	0.00	56.61	3,263.70	1,631.85	4,947.23	2,477.29	2.70	-0.22	0.027
130.00	-12.54	-1.29	0.00	-55.32	0.00	55.32	3,246.93	1,623.47	4,887.93	2,447.60	2.75	-0.22	0.026
133.75	-11.58	-1.29	0.00	-50.48	0.00	50.48	1,888.69	944.35	2,827.82	1,416.01	2.92	-0.23	0.042
135.00	-11.43	-1.29	0.00	-48.87	0.00	48.87	1,879.08	939.54	2,788.91	1,396.53	2.98	-0.23	0.041
140.00	-10.83	-1.29	0.00	-42.42	0.00	42.42	1,839.46	919.73	2,634.12	1,319.02	3.23	-0.25	0.038
145.00	-8.64	-1.26	0.00	-35.99	0.00	35.99	1,797.97	898.98	2,480.87	1,242.28	3.50	-0.26	0.034
150.00	-8.11	-1.24	0.00	-29.69	0.00	29.69	1,754.58	877.29	2,329.46	1,166.46	3.78	-0.27	0.030
155.00	-7.61	-1.20	0.00	-23.51	0.00	23.51	1,709.32	854.66	2,180.17	1,091.71	4.07	-0.28	0.026
158.00	-5.24	-1.13	0.00	-19.90	0.00	19.90	1,681.26	840.63	2,091.74	1,047.43	4.25	-0.29	0.022
160.00	-5.06	-1.11	0.00	-17.65	0.00	17.65	1,662.18	831.09	2,033.31	1,018.16	4.37	-0.29	0.020
165.00	-4.62	-1.05	0.00	-12.10	0.00	12.10	1,613.16	806.58	1,889.16	945.98	4.68	-0.30	0.016
168.00	-3.70	-0.94	0.00	-8.94	0.00	8.94	1,582.84	791.42	1,804.10	903.39	4.87	-0.30	0.012
170.00	-3.54	-0.91	0.00	-7.06	0.00	7.06	1,562.25	781.13	1,748.02	875.31	5.00	-0.31	0.010
175.00	-3.15	-0.83	0.00	-2.50	0.00	2.50	1,509.46	754.73	1,610.20	806.29	5.32	-0.31	0.005
178.00	0.00	-0.82	0.00	0.00	0.00	0.00	1,476.89	738.44	1,529.21	765.74	5.52	-0.31	0.000

Pole : 376046
 Location : Mansfield Center 1 CT, CT
 Height : 178.00 (ft)
 Base Dia : 68.360 (in)
 Top Dia : 25.500 (in)
 Shape : 18 Sides
 Taper : 0.252023 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1
 Base Elev : 0.000 (ft)



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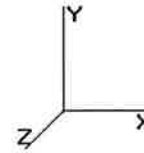
Load Case: 1.0D + 1.0W	60.00 mph Serviceability	22 Iterations
Gust Response Factor 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

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	290.3820.650	0.000	0.00	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	6.129	6.742	285.0290.650	0.000	5.00	28.656	18.63	125.6	125.6	0.0	1,589.8
10.00		1.00	0.70	6.129	6.742	279.6760.650	0.000	5.00	28.123	18.28	123.2	123.2	0.0	1,560.0
15.00		1.00	0.70	6.129	6.742	274.3240.650	0.000	5.00	27.590	17.93	120.9	120.9	0.0	1,530.2
20.00		1.00	0.70	6.129	6.742	268.9710.650	0.000	5.00	27.057	17.59	118.6	118.6	0.0	1,500.5
25.00		1.00	0.70	6.129	6.742	263.6180.650	0.000	5.00	26.524	17.24	116.2	116.2	0.0	1,470.7
30.00		1.00	0.70	6.134	6.747	258.3740.650	0.000	5.00	25.990	16.89	114.0	114.0	0.0	1,440.9
35.00		1.00	0.73	6.410	7.051	258.6530.650	0.000	5.00	25.457	16.55	116.7	116.7	0.0	1,411.2
40.00		1.00	0.76	6.659	7.325	258.0550.650	0.000	5.00	24.924	16.20	118.7	118.7	0.0	1,381.4
43.75	Bot - Section 2	1.00	0.78	6.832	7.515	257.1410.650	0.000	3.75	18.343	11.92	89.6	89.6	0.0	1,016.5
45.00		1.00	0.78	6.887	7.576	256.7590.650	0.000	1.25	6.127	3.98	30.2	30.2	0.0	626.5
50.00		1.00	0.81	7.098	7.807	254.8930.650	0.000	5.00	24.175	15.71	122.7	122.7	0.0	2,471.3
51.00	Top - Section 1	1.00	0.81	7.138	7.852	254.4590.650	0.000	1.00	4.771	3.10	24.3	24.3	0.0	487.6
55.00		1.00	0.83	7.294	8.023	256.0230.650	0.000	4.00	18.871	12.27	98.4	98.4	0.0	897.1
60.00		1.00	0.85	7.477	8.225	253.3130.650	0.000	5.00	23.109	15.02	123.5	123.5	0.0	1,098.4
65.00		1.00	0.87	7.650	8.415	250.2460.650	0.000	5.00	22.576	14.67	123.5	123.5	0.0	1,072.9
70.00		1.00	0.89	7.814	8.595	246.8650.650	0.000	5.00	22.043	14.33	123.2	123.2	0.0	1,047.4
75.00		1.00	0.91	7.969	8.766	243.2060.650	0.000	5.00	21.509	13.98	122.6	122.6	0.0	1,021.9
80.00		1.00	0.92	8.118	8.930	239.2980.650	0.000	5.00	20.976	13.63	121.8	121.8	0.0	996.4
85.00		1.00	0.94	8.260	9.086	235.1660.650	0.000	5.00	20.443	13.29	120.7	120.7	0.0	970.9
88.75	Bot - Section 3	1.00	0.95	8.362	9.198	231.9310.650	0.000	3.75	14.982	9.74	89.6	89.6	0.0	711.4
90.00		1.00	0.95	8.396	9.235	230.8290.650	0.000	1.25	5.007	3.25	30.1	30.1	0.0	471.7
94.75	Top - Section 2	1.00	0.97	8.520	9.372	226.5360.650	0.000	4.75	18.722	12.17	114.0	114.0	0.0	1,763.3
95.00		1.00	0.97	8.526	9.379	230.0630.650	0.000	0.25	0.972	0.63	5.9	5.9	0.0	46.1
100.00		1.00	0.98	8.652	9.517	225.3950.650	0.000	5.00	19.161	12.45	118.5	118.5	0.0	909.5
105.00		1.00	1.00	8.774	9.651	220.5670.650	0.000	5.00	18.628	12.11	116.9	116.9	0.0	884.0
110.00	Appertunance(s)	1.00	1.01	8.891	9.780	215.5900.650	0.000	5.00	18.095	11.76	115.0	115.0	0.0	858.5
115.00		1.00	1.02	9.005	9.905	210.4760.650	0.000	5.00	17.562	11.42	113.1	113.1	0.0	832.9
120.00		1.00	1.04	9.115	10.026	205.2310.650	0.000	5.00	17.028	11.07	111.0	111.0	0.0	807.4
125.00		1.00	1.05	9.222	10.144	199.8660.650	0.000	5.00	16.495	10.72	108.8	108.8	0.0	781.9
129.00	Bot - Section 4	1.00	1.06	9.305	10.236	195.4900.650	0.000	4.00	12.812	8.33	85.2	85.2	0.0	607.1
130.00		1.00	1.06	9.326	10.258	194.3860.650	0.000	1.00	3.192	2.07	21.3	21.3	0.0	250.4
133.7	Top - Section 3	1.00	1.07	9.402	10.342	190.2050.650	0.000	3.75	11.780	7.66	79.2	79.2	0.0	923.9
135.00		1.00	1.07	9.427	10.369	191.4320.650	0.000	1.25	3.860	2.51	26.0	26.0	0.0	122.3
140.00		1.00	1.08	9.525	10.478	185.7560.650	0.000	5.00	15.107	9.82	102.9	102.9	0.0	478.7
145.00	Appertunance(s)	1.00	1.09	9.621	10.583	179.9830.650	0.000	5.00	14.574	9.47	100.3	100.3	0.0	461.7
150.00		1.00	1.11	9.715	10.686	174.1170.650	0.000	5.00	14.041	9.13	97.5	97.5	0.0	444.6
155.00		1.00	1.12	9.806	10.787	168.1640.650	0.000	5.00	13.508	8.78	94.7	94.7	0.0	427.6
158.00	Appertunance(s)	1.00	1.12	9.860	10.846	164.5510.650	0.000	3.00	7.849	5.10	55.3	55.3	0.0	248.4
160.00		1.00	1.13	9.896	10.885	162.1270.650	0.000	2.00	5.126	3.33	36.3	36.3	0.0	162.2
165.00		1.00	1.14	9.983	10.981	156.0090.650	0.000	5.00	12.442	8.09	88.8	88.8	0.0	393.6
168.00	Appertunance(s)	1.00	1.14	10.035	11.038	152.3020.650	0.000	3.00	7.209	4.69	51.7	51.7	0.0	228.0
170.00		1.00	1.15	10.069	11.075	149.8150.650	0.000	2.00	4.699	3.05	33.8	33.8	0.0	148.6
175.00		1.00	1.16	10.152	11.168	143.5470.650	0.000	5.00	11.375	7.39	82.6	82.6	0.0	359.6
178.00	Appertunance(s)	1.00	1.16	10.202	11.222	139.7530.650	0.000	3.00	6.569	4.27	47.9	47.9	0.0	207.6
Totals:									534.00		71,158.1	0.0	115,080.4	

Pole : 376046
 Location : Mansfield Center 1 CT, CT
 Height : 178.00 (ft)
 Base Dia : 68.360 (in)
 Top Dia : 25.500 (in)
 Shape : 18 Sides
 Taper : 0.252023 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1
 Base Elev : 0.000 (ft)



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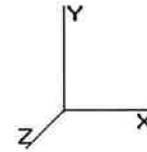
Load Case: 1.0D + 1.0W 60.00 mph Serviceability 22 Iterations
 Gust Response Factor 1.10 Wind Importance Factor : 1.00
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

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)
110.0	Flat T-Arm	3	8.891	9.780	0.67	0.75	19.45	0.000	0.000	190.19	0.00	0.00	750.00
110.0	5' Omni	3	8.960	9.856	1.00	0.80	2.40	0.000	3.000	23.65	0.00	70.96	30.00
110.0	2' x 4' Rectangular	1	8.891	9.780	1.00	0.80	3.80	0.000	0.000	37.16	0.00	0.00	40.00
110.0	18' Dipole	3	9.093	10.002	1.00	0.80	16.25	0.000	9.000	162.52	0.00	1,462.66	165.00
145.0	Round Low Profile PI	1	9.621	10.583	1.00	1.00	21.70	0.000	0.000	229.66	0.00	0.00	1,500.00
145.0	TTA	6	9.678	10.645	0.50	0.80	2.88	0.000	3.000	30.66	0.00	91.98	60.00
145.0	RFS APX16PV-16PVL-	6	9.678	10.645	0.66	0.80	19.13	0.000	3.000	203.70	0.00	611.09	237.60
158.0	Round Low Profile PI	1	9.860	10.846	1.00	1.00	21.70	0.000	0.000	235.36	0.00	0.00	1,500.00
158.0	RRH	6	9.860	10.846	1.00	0.80	11.52	0.000	0.000	124.95	0.00	0.00	270.00
158.0	Alcatel-Lucent TD-RR	3	9.860	10.846	0.67	0.80	5.95	0.000	0.000	64.53	0.00	0.00	198.00
158.0	RFS APXV9TM14-ALU-	3	9.860	10.846	0.78	0.80	11.87	0.000	0.000	128.73	0.00	0.00	165.30
158.0	RFS APXVSP18-C-	3	9.860	10.846	0.83	0.80	15.98	0.000	0.000	173.28	0.00	0.00	171.00
168.0	Raycap DC6-48-60-18-	1	10.035	11.038	1.00	1.00	1.11	0.000	0.000	12.25	0.00	0.00	20.00
168.0	Allgon LGP21401	6	10.035	11.038	0.50	1.00	3.30	0.000	0.000	36.43	0.00	0.00	84.60
168.0	Ericsson RRU11	6	10.035	11.038	0.67	1.00	11.86	0.000	0.000	130.90	0.00	0.00	383.40
168.0	Allgon 7770.00	3	10.035	11.038	0.77	1.00	12.73	0.000	0.000	140.49	0.00	0.00	105.00
168.0	KMW AM-X-CD-16-65-	3	10.035	11.038	0.79	1.00	19.01	0.000	0.000	209.80	0.00	0.00	145.50
178.0	5' Omni	1	10.242	11.267	1.00	0.75	1.02	0.000	2.500	11.49	0.00	28.73	15.00
178.0	2' x 4' Rectangular	1	10.202	11.222	1.00	0.75	3.56	0.000	0.000	39.98	0.00	0.00	40.00
178.0	18' Dipole	2	10.202	11.222	1.00	0.75	10.07	0.000	0.000	112.95	0.00	0.00	200.00
178.0	Alcatel-Lucent RRH 2	3	10.202	11.222	0.50	0.75	2.12	0.000	0.000	23.73	0.00	0.00	118.80
178.0	Alcatel-Lucent RRH2X	3	10.202	11.222	0.50	0.75	2.12	0.000	0.000	23.73	0.00	0.00	118.80
178.0	RFS DB-T1-6Z-8AB-0Z	2	10.202	11.222	0.67	0.75	4.82	0.000	0.000	54.13	0.00	0.00	220.00
178.0	Commscope LNX-	3	10.202	11.222	0.83	0.75	15.26	0.000	0.000	171.22	0.00	0.00	150.90
178.0	Commscope LNX-	3	10.202	11.222	0.83	0.75	15.26	0.000	0.000	171.22	0.00	0.00	142.20
178.0	Commscope HBXX-	6	10.202	11.222	0.81	0.75	31.09	0.000	0.000	348.91	0.00	0.00	238.20
178.0	Flat Platform w/ Han	1	10.202	11.222	1.00	1.00	42.40	0.000	0.000	475.81	0.00	0.00	2,000.00
178.0	RFS FD9R6004/2C-3L	6	10.202	11.222	0.50	0.75	0.83	0.000	0.000	9.34	0.00	0.00	15.60
										3,576.77			28,163.19

Pole : 376046
 Location : Mansfield Center 1 CT, CT
 Height : 178.00 (ft)
 Base Dia : 68.360 (in)
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 Base Elev : 0.000 (ft)



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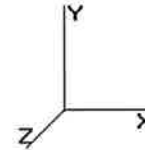
Load Case: 1.0D + 1.0W	60.00 mph Serviceability	22 Iterations
Gust Response Factor 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

Applied Segment Forces Summary

Seg Elev (ft)	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00	0.00	0.00	0.00	0.00
5.00	125.57	1,785.24	0.00	0.00
10.00	123.23	1,755.47	0.00	0.00
15.00	120.90	1,725.70	0.00	0.00
20.00	118.56	1,695.93	0.00	0.00
25.00	116.23	1,666.16	0.00	0.00
30.00	113.99	1,636.39	0.00	0.00
35.00	116.67	1,606.62	0.00	0.00
40.00	118.67	1,576.85	0.00	0.00
43.75	89.60	1,163.10	0.00	0.00
45.00	30.17	675.33	0.00	0.00
50.00	122.68	2,666.78	0.00	0.00
51.00	24.35	526.72	0.00	0.00
55.00	98.41	1,053.48	0.00	0.00
60.00	123.54	1,293.89	0.00	0.00
65.00	123.49	1,268.37	0.00	0.00
70.00	123.15	1,242.85	0.00	0.00
75.00	122.56	1,217.33	0.00	0.00
80.00	121.75	1,191.82	0.00	0.00
85.00	120.73	1,166.30	0.00	0.00
88.75	89.58	857.98	0.00	0.00
90.00	30.06	520.54	0.00	0.00
94.75	114.05	1,948.97	0.00	0.00
95.00	5.93	55.92	0.00	0.00
100.0	118.54	1,104.94	0.00	0.00
105.0	116.86	1,079.42	0.00	0.00
110.0	528.56	2,038.90	0.00	1,533.62
115.0	113.07	1,016.83	0.00	0.00
120.0	110.98	991.32	0.00	0.00
125.0	108.76	965.80	0.00	0.00
129.0	85.24	754.27	0.00	0.00
130.0	21.28	287.19	0.00	0.00
133.7	79.19	1,061.82	0.00	0.00
135.0	26.02	168.30	0.00	0.00
140.0	102.89	662.57	0.00	0.00
145.0	564.27	2,443.16	0.00	703.07
150.0	97.53	579.34	0.00	0.00
155.0	94.71	562.33	0.00	0.00
158.0	782.18	2,633.53	0.00	0.00
160.0	36.27	200.43	0.00	0.00
165.0	88.81	489.16	0.00	0.00
168.0	581.60	1,023.83	0.00	0.00
170.0	33.83	176.12	0.00	0.00
175.0	82.57	428.39	0.00	0.00
178.0	1,490.43	3,508.37	0.00	28.73
Totals:	11,095.83	162,668.53	0.00	2,265.42

Pole : 376046
 Location : Mansfield Center 1 CT, CT
 Height : 178.00 (ft)
 Base Dia : 68.360 (in)
 Top Dia : 25.500 (in)
 Shape : 18 Sides
 Taper : 0.252023 (in/ft)

Code : ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1
 Base Elev : 0.000 (ft)



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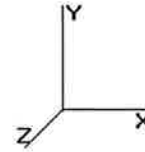
Load Case: 1.0D + 1.0W	60.00 mph Serviceability	22 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

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	-52.47	-7.57	0.00	-946.01	0.00	946.01	5,997.45	2,998.72	16,762.15	8,393.53	0.00	0.00	0.121
5.00	-50.68	-7.46	0.00	-908.17	0.00	908.17	5,935.94	2,967.97	16,280.50	8,152.35	0.01	-0.02	0.120
10.00	-48.93	-7.36	0.00	-870.86	0.00	870.86	5,872.56	2,936.28	15,800.21	7,911.85	0.05	-0.05	0.118
15.00	-47.20	-7.26	0.00	-834.06	0.00	834.06	5,807.29	2,903.65	15,321.57	7,672.17	0.12	-0.07	0.117
20.00	-45.50	-7.16	0.00	-797.77	0.00	797.77	5,740.14	2,870.07	14,844.87	7,433.47	0.21	-0.10	0.115
25.00	-43.83	-7.06	0.00	-761.99	0.00	761.99	5,671.12	2,835.56	14,370.42	7,195.89	0.32	-0.12	0.114
30.00	-42.19	-6.96	0.00	-726.70	0.00	726.70	5,600.21	2,800.10	13,898.50	6,959.58	0.47	-0.15	0.112
35.00	-40.58	-6.86	0.00	-691.91	0.00	691.91	5,527.41	2,763.71	13,429.42	6,724.69	0.64	-0.18	0.110
40.00	-39.00	-6.75	0.00	-657.64	0.00	657.64	5,452.74	2,726.37	12,963.45	6,491.36	0.83	-0.20	0.108
43.75	-37.84	-6.66	0.00	-632.33	0.00	632.33	5,395.50	2,697.75	12,616.21	6,317.48	1.00	-0.22	0.107
45.00	-37.16	-6.64	0.00	-624.00	0.00	624.00	5,376.19	2,688.09	12,500.91	6,259.75	1.06	-0.23	0.107
50.00	-34.49	-6.52	0.00	-590.80	0.00	590.80	5,297.75	2,648.88	12,042.08	6,029.99	1.31	-0.26	0.104
51.00	-33.96	-6.50	0.00	-584.28	0.00	584.28	4,306.76	2,153.38	9,900.44	4,957.58	1.37	-0.26	0.126
55.00	-32.91	-6.41	0.00	-558.29	0.00	558.29	4,261.83	2,130.92	9,619.25	4,816.78	1.60	-0.28	0.124
60.00	-31.61	-6.30	0.00	-526.24	0.00	526.24	4,203.99	2,101.99	9,269.32	4,641.55	1.91	-0.32	0.121
65.00	-30.34	-6.18	0.00	-494.76	0.00	494.76	4,144.26	2,072.13	8,921.36	4,467.31	2.26	-0.35	0.118
70.00	-29.09	-6.07	0.00	-463.84	0.00	463.84	4,082.65	2,041.33	8,575.69	4,294.22	2.64	-0.38	0.115
75.00	-27.87	-5.95	0.00	-433.50	0.00	433.50	4,019.16	2,009.58	8,232.60	4,122.42	3.05	-0.41	0.112
80.00	-26.68	-5.84	0.00	-403.74	0.00	403.74	3,953.79	1,976.89	7,892.38	3,952.06	3.50	-0.44	0.109
85.00	-25.51	-5.72	0.00	-374.55	0.00	374.55	3,886.54	1,943.27	7,555.33	3,783.28	3.98	-0.47	0.106
88.75	-24.65	-5.63	0.00	-353.11	0.00	353.11	3,834.86	1,917.43	7,304.79	3,657.82	4.36	-0.50	0.103
90.00	-24.13	-5.60	0.00	-346.07	0.00	346.07	3,817.40	1,908.70	7,221.73	3,616.23	4.49	-0.51	0.102
94.75	-22.18	-5.48	0.00	-319.46	0.00	319.46	3,792.42	1,896.21	7,104.25	3,557.41	5.01	-0.54	0.096
95.00	-22.12	-5.48	0.00	-318.09	0.00	318.09	3,788.88	1,894.44	7,087.74	3,549.14	5.04	-0.54	0.095
100.00	-21.02	-5.36	0.00	-290.70	0.00	290.70	3,717.10	1,858.55	6,759.50	3,384.77	5.62	-0.57	0.092
105.00	-19.94	-5.24	0.00	-263.90	0.00	263.90	3,643.45	1,821.72	6,435.43	3,222.50	6.24	-0.60	0.087
110.00	-17.90	-4.70	0.00	-236.16	0.00	236.16	3,567.91	1,783.95	6,115.83	3,062.46	6.88	-0.63	0.082
115.00	-16.88	-4.58	0.00	-212.66	0.00	212.66	3,490.48	1,745.24	5,800.98	2,904.80	7.56	-0.66	0.078
120.00	-15.89	-4.47	0.00	-189.73	0.00	189.73	3,411.18	1,705.59	5,491.19	2,749.67	8.26	-0.69	0.074
125.00	-14.92	-4.36	0.00	-167.38	0.00	167.38	3,330.00	1,665.00	5,186.74	2,597.22	9.00	-0.72	0.069
129.00	-14.17	-4.26	0.00	-149.96	0.00	149.96	3,263.70	1,631.85	4,947.23	2,477.29	9.60	-0.74	0.065
130.00	-13.88	-4.24	0.00	-145.69	0.00	145.69	3,246.93	1,623.47	4,887.93	2,447.60	9.76	-0.74	0.064
133.75	-12.82	-4.15	0.00	-129.78	0.00	129.78	1,888.69	944.35	2,827.82	1,416.01	10.35	-0.76	0.098
135.00	-12.65	-4.13	0.00	-124.59	0.00	124.59	1,879.08	939.54	2,788.91	1,396.53	10.55	-0.77	0.096
140.00	-11.99	-4.02	0.00	-103.95	0.00	103.95	1,839.46	919.73	2,634.12	1,319.02	11.38	-0.80	0.085
145.00	-9.55	-3.43	0.00	-83.13	0.00	83.13	1,797.97	898.98	2,480.87	1,242.28	12.24	-0.84	0.072
150.00	-8.97	-3.33	0.00	-65.98	0.00	65.98	1,754.58	877.29	2,329.46	1,166.46	13.13	-0.86	0.062
155.00	-8.41	-3.23	0.00	-49.34	0.00	49.34	1,709.32	854.66	2,180.17	1,091.71	14.04	-0.89	0.050
158.00	-5.79	-2.40	0.00	-39.66	0.00	39.66	1,681.26	840.63	2,091.74	1,047.43	14.61	-0.90	0.041
160.00	-5.59	-2.37	0.00	-34.85	0.00	34.85	1,662.18	831.09	2,033.31	1,018.16	14.98	-0.91	0.038
165.00	-5.10	-2.27	0.00	-23.02	0.00	23.02	1,613.16	806.58	1,889.16	945.98	15.94	-0.92	0.028
168.00	-4.09	-1.67	0.00	-16.20	0.00	16.20	1,582.84	791.42	1,804.10	903.39	16.53	-0.93	0.021
170.00	-3.91	-1.64	0.00	-12.86	0.00	12.86	1,562.25	781.13	1,748.02	875.31	16.92	-0.93	0.017
175.00	-3.48	-1.55	0.00	-4.67	0.00	4.67	1,509.46	754.73	1,610.20	806.29	17.90	-0.94	0.008
178.00	0.00	-1.49	0.00	-0.03	0.00	0.03	1,476.89	738.44	1,529.21	765.74	18.49	-0.94	0.000

Pole : 376046
 Location : Mansfield Center 1 CT, CT
 Height : 178.00 (ft)
 Base Dia : 68.360 (in)
 Top Dia : 25.500 (in)
 Shape : 18 Sides
 Taper : 0.252023 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1
 Base Elev : 0.000 (ft)



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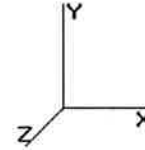
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Analysis Summary

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	33.65	0.00	62.94	0.00	0.00	4226.48	51.00	0.54
0.9D + 1.6W	33.63	0.00	47.19	0.00	0.00	4189.81	51.00	0.53
1.2D + 1.0Di + 1.0Wi	9.96	0.00	102.11	0.00	0.00	1254.71	51.00	0.17
1.2D + 1.0E	1.90	0.00	62.97	0.00	0.00	253.12	133.75	0.04
0.9D + 1.0E	1.90	0.00	47.23	0.00	0.00	250.75	133.75	0.04
1.0D + 1.0W	7.57	0.00	52.47	0.00	0.00	946.01	51.00	0.13

Pole : 376046
 Location : Mansfield Center 1 CT, CT
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Base Summary

Reactions

Original Design			Analysis			Moment
Moment (kip-ft)	Axial (kip)	Shear (kip)	Moment (kip-ft)	Axial (kip)	Shear (kip)	Design %
6,250.00	53.00	48.00	4,226.48	102.11	33.65	50.09

Base Plate

Yield (ksi)	Thick (in)	Width (in)	Style	Poly Sides	Clip Len (in)	Effective Len (in)	Mu (kip-in)	Phi Mn (kip-in)	Ratio
55.0	3.000	75.000	Clipped	4	15.00	9.040	441.12	1006.86	0.44

Anchor Bolts

Bolt Circle	Num Bolts	Bolt Type	Bolt Dia (in)	Yield (ksi)	Ultimate (ksi)	Arrange	Cluster Dist (in)	Start Angle (deg)	Compression			Tension		
									Force (kip)	Allow (kip)	Ratio	Force (kip)	Allow (kip)	Ratio
76.00	24	2.25" 18J	2.25	75.00	100.00	Clustered	6.00	45.0	115.48	260.00	0.45	106.97	260.00	0.42

