RECEIVED
NOV 28 2014
CONNECTICUT
SITING COUNCIL

ORIGINAL

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

RE: EM-CING-096-121221 Notice of Completion of Construction & PE Certification for New Cingular Wireless/ AT&T facility (AT&T No.CT2155) at 4 ELKINGTON FARM ROAD, NEW MILFORD CT

Dear Ms. Bachmam:

The purpose of this letter is to notify you that construction activity associated with the above-referenced decision has been completed.

As part of the Council's Decision, the tower's foundation was reinforced in accordance with the stipulation in the Structural Analysis by American Tower dated September 19, 2012.

If you have any questions or need any additional information regarding this facility, please do not hesitate to contact me.

Sincerely,

Eric Campbell
SAI Communications
Agent for New Cingular Wireless/AT&T Mobility, Inc.
27 Northwestern Drive
Salem, New Hampshire 03079

Cc: Christine Vergati, Cuddy Feder (via email only)
SAI Construction (via email only)

CENTEK engineering

Centered on Solutions℠

July 22, 2014

Mr. Thomas Hackett
Town of New Milford Building Official
10 Main Street
New Milford, CT 06766

Re: Letter of Professional Opinion

Project: AT&T CT2155
4 Elkington Farm Road
New Milford, CT

Owner: American Tower Corporation

Engineer: American Tower Corporation
3500 Regency Parkway, Suite 100, Cary, NC 27518

Contractor: Berkshire Wireless
490 Pleasant Street, Lee, MA 01238

Centek Project No.: 13014.021/ 12063.047

Dear Mr. Hackett,

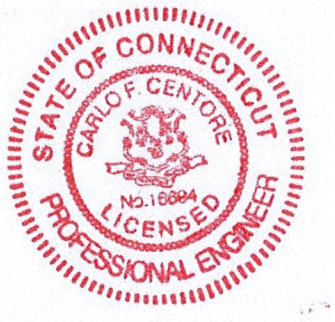
We are providing this "Letter of Professional Opinion" with regard to the structural components at the above referenced project.

The following are the basis for substantiating compliance with the antenna mounting details and equipment on page C-2 of the construction documents prepared by Centek Engineering, Inc., dated 05/13/2013 Rev-2:

- Field observations of completed site [refer to FVR dated 06/17/14].

The work under this Contract has been reviewed and found, to the Engineer's best knowledge, information and belief, to be completed in general compliance with the documents prepared by this office and issued for construction on 05/13/13 revision 2.

Sincerely,



Carlo F. Centore, PE
Senior Project Manager

Cc: File
Jason Harrison – SAI Communications (via email)
Dennis Teichert –Berkshire Wireless (via email)

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL
Ten Franklin Square, New Britain, CT 06051
Phone: (860) 827-2935 Fax: (860) 827-2950
E-Mail: siting.council@ct.gov
www.ct.gov/csc

January 11, 2013

Melanie Howlett
HPC Wireless Services
46 Mill Plain Road, Floor 2
Danbury, CT 06811

RE: **EM-CING-096-121221** - New Cingular Wireless PCS, LLC. notice of intent to modify an existing telecommunications facility located at 4 Elkington Farm Road, New Milford, Connecticut.

Dear Ms. Howlett:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the following conditions:

- Prior to antenna installation, the tower's foundation must be reinforced in accordance with the stipulation in the Structural Analysis Report prepared by American Tower Corporation dated September 19, 2012, and stamped by William Garrett; and
- Not more than 45 days following completion of the antenna installation, a signed letter from a Professional Engineer duly licensed in the State of Connecticut shall be submitted to the Council to certify that the recommended modifications have been completed and the tower does not exceed 100 percent of the post-construction structural rating.
- Any deviation from the proposed modification as specified in this notice and supporting materials with Council shall render this acknowledgement invalid;
- Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
- Not more than 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
- The validity of this action shall expire one year from the date of this letter; and
- The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration;

The proposed modifications including the placement of all necessary equipment and shelters within the tower compound are to be implemented as specified here and in your notice dated December 20, 2012. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency

emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Thank you for your attention and cooperation.

Very truly yours,

LRoberts

Linda Roberts
Executive Director

LR/CDM/cm

c: The Honorable Patricia A. Murphy, Mayor, Town of New Milford
, , Town of New Milford
Laura Regan, Zoning Enforcement Officer, Town of New Milford

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL
Ten Franklin Square, New Britain, CT 06051
Phone: (860) 827-2935 Fax: (860) 827-2950
E-Mail: siting.council@ct.gov
www.ct.gov/csc

December 26, 2012

The Honorable Patricia A. Murphy
Mayor
Town of New Milford
10 Main Street
New Milford, CT 06776

RE: **EM-CING-092-121224** – New Cingular Wireless PCS, LLC. notice of intent to modify an existing telecommunications facility located at 4 Elkington Farm Road, New Milford, Connecticut.

Dear Mayor Murphy:

The Connecticut Siting Council (Council) received a request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72, a copy of which has already been provided to you.

If you have any questions or comments regarding the proposal, please call me or inform the Council by January 9, 2013.

Thank you for your cooperation and consideration.

Very truly yours,

Linda Roberts MAB

Linda Roberts
Executive Director

LR/cm

c: Laura Regan, Zoning Enforcement Officer, Town of New Milford

CSC
CONNECTICUT SITING COUNCIL

HPC Wireless Services
46 Mill Plain Rd.
Floor 2
Danbury, CT, 06811
P.: 203.797.1112

EM-CING-096- 121224

HPC WIRELESS SERVICES

ORIGINAL

December 20, 2012

VIA OVERNIGHT COURIER

Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051
Attn: Ms. Linda Roberts, Executive Director

Re: New Cingular Wireless PCS, LLC – Exempt Modification
4 Elkington Farm Road (aka Canterbury Road), New Milford

Dear Ms. Roberts:

This letter and attachments are submitted on behalf of New Cingular Wireless PCS, LLC ("AT&T"). AT&T is making modifications to certain existing sites in its Connecticut system in order to implement LTE technology. Please accept this letter and attachments as notification, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies ("R.S.C.A."), of construction that constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter and attachments is being sent to the Mayor of the Town of New Milford.

AT&T plans to modify the existing wireless communications facility owned by American Tower and located at 4 Elkington Farm Road (aka Canterbury Road), New Milford (coordinates 41°-35'-28 N, 73°-24'-30" W). Attached are a compound plan and elevation depicting the planned changes, and documentation of the structural sufficiency of the structure to accommodate the revised antenna configuration, subject to modifications detailed in the attached structural documentation. Also included is a power density report reflecting the modification to AT&T's operations at the site.

The changes to the facility do not constitute a modification as defined in Connecticut General Statutes ("C.G.S.") Section 16-50i(d) because the general physical characteristics of the facility will not be significantly changed. Rather, the planned changes to the facility fall squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b)(2).

1. AT&T will add three (3) LTE panel antennas on new mounts and six (6) RRUS (remote radio units), behind the LTE antennas, on new mounting pipes all at a centerline

height of approximately 154'. One (1) Surge Arrestor will be added to the existing platform, also at a centerline height of approximately 154'. AT&T will also place DC power and fiber runs from the equipment to the antennas along the existing coaxial cable run. These changes will not extend the height of the approximately 150' structure.

2. AT&T will place related equipment in an existing Equipment Shelter and mount a new GPS antenna on the existing Equipment Shelter. These changes will be within the existing compound and will have no effect on the site boundaries.

3. The proposed changes will not increase the noise level at the existing facility by six (6) decibels or more. The incremental effect of the proposed changes will be negligible.

4. The changes to the facility will not increase the calculated "worst case" power density for the combined operations at the site to a level at or above the applicable standard for uncontrolled environments as calculated for a mixed frequency site. As indicated on the attached report prepared by C Squared Systems, LLC, AT&T's operations at the site will result in a power density of approximately 1.36%; the combined site operations will result in a total power density of approximately 34.67%.

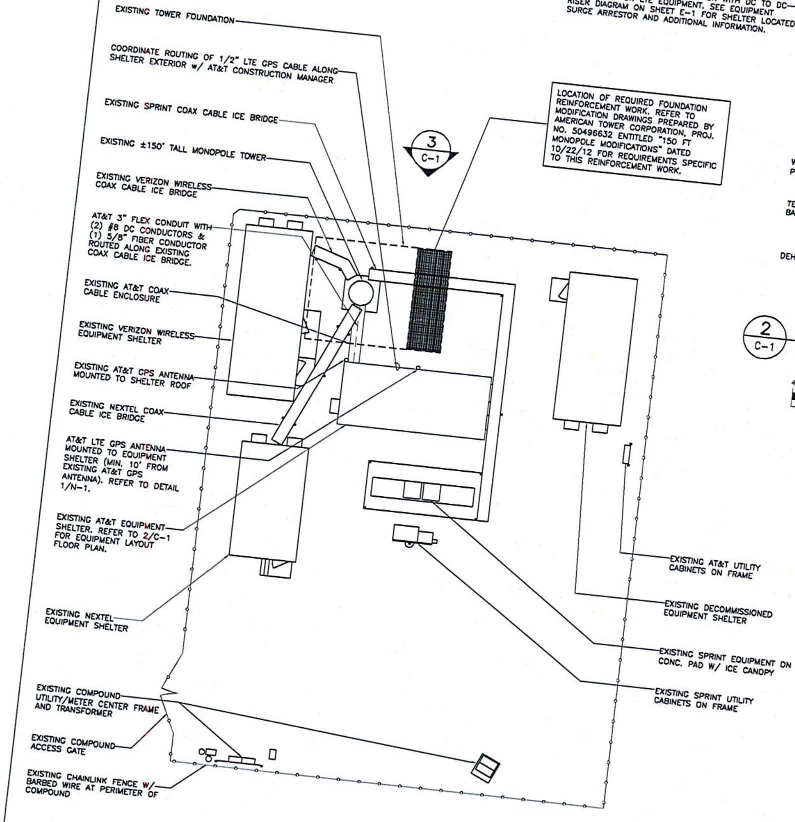
Please contact me by phone at (203) 610-1071, or by e-mail at mhowlett@optonline.net, if there are any questions concerning this matter. Thank you for your consideration.

Respectfully yours,

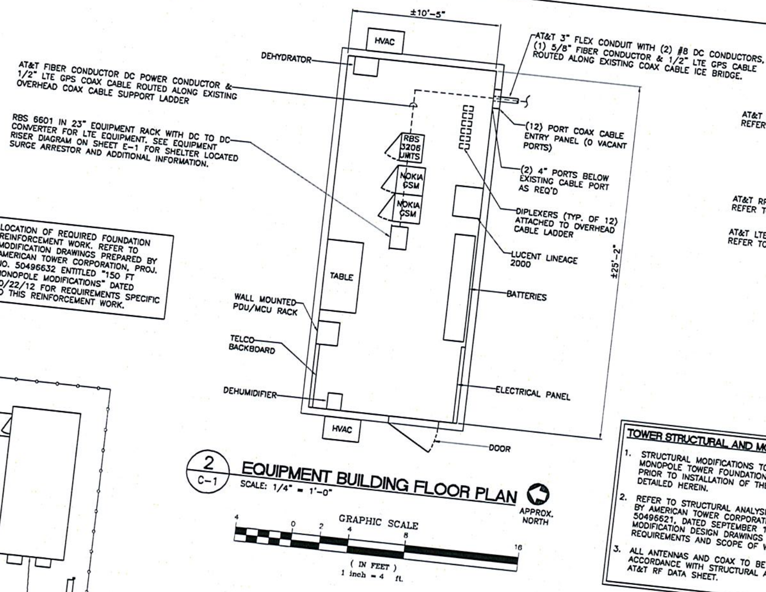
Melanie J. Howlett

Attachments

cc: Honorable Pat Murphy, Mayor, Town of New Milford
Canterbury School (underlying property owner)


EXISTING TOWER FOUNDATION
COORDINATE ROUTING OF 1/2" LTE GPS CABLE ALONG SHELTER EXTERIOR w/ AT&T CONSTRUCTION MANAGER
EXISTING SPRINT COAX CABLE ICE BRIDGE
EXISTING ±150' TALL MONOPOLE TOWER
EXISTING VERIZON WIRELESS COAX CABLE ICE BRIDGE
AT&T 3" FLEX CONDUIT WITH (2) #8 DC CONDUCTORS & (1) 5/8" FIBER CONDUCTOR ROUTED ALONG EXISTING COAX CABLE ICE BRIDGE.
EXISTING AT&T COAX CABLE ENCLOSURE
EXISTING VERIZON WIRELESS EQUIPMENT SHELTER
EXISTING AT&T GPS ANTENNA MOUNTED TO SHELTER ROOF
EXISTING NEXTEL COAX CABLE ICE BRIDGE
AT&T LTE GPS ANTENNA MOUNTED TO EQUIPMENT SHELTER (MIN. 10' FROM EXISTING AT&T GPS ANTENNA). REFER TO DETAIL 1/N-1.
EXISTING AT&T EQUIPMENT SHELTER. REFER TO 2/C-1 FOR EQUIPMENT LAYOUT FLOOR PLAN.
EXISTING NEXTEL EQUIPMENT SHELTER
EXISTING COMPOUND UTILITY/METER CENTER FRAME AND TRANSFORMER
EXISTING COMPOUND ACCESS GATE
EXISTING CHAINLINK FENCE W/ BARBED WIRE AT PERIMETER OF COMPOUND
3 C-1
LOCATION OF REQUIRED FOUNDATION REINFORCEMENT WORK. REFER TO MODIFICATION DRAWINGS PREPARED BY AMERICAN TOWER CORPORATION, PROJ. NO. 50496632 ENTITLED "150 FT MONOPOLE MODIFICATIONS" DATED 10/22/12 FOR REQUIREMENTS SPECIFIC TO THIS REINFORCEMENT WORK.
EXISTING AT&T UTILITY CABINETS ON FRAME
EXISTING DECOMMISSIONED EQUIPMENT SHELTER
EXISTING SPRINT EQUIPMENT ON CONC. PAD W/ ICE CANOPY
EXISTING SPRINT UTILITY CABINETS ON FRAME
APPROX. NORTH
GRAPHIC SCALE
10 0 5 10 20 40
(IN FEET)
1 inch = 10 ft.

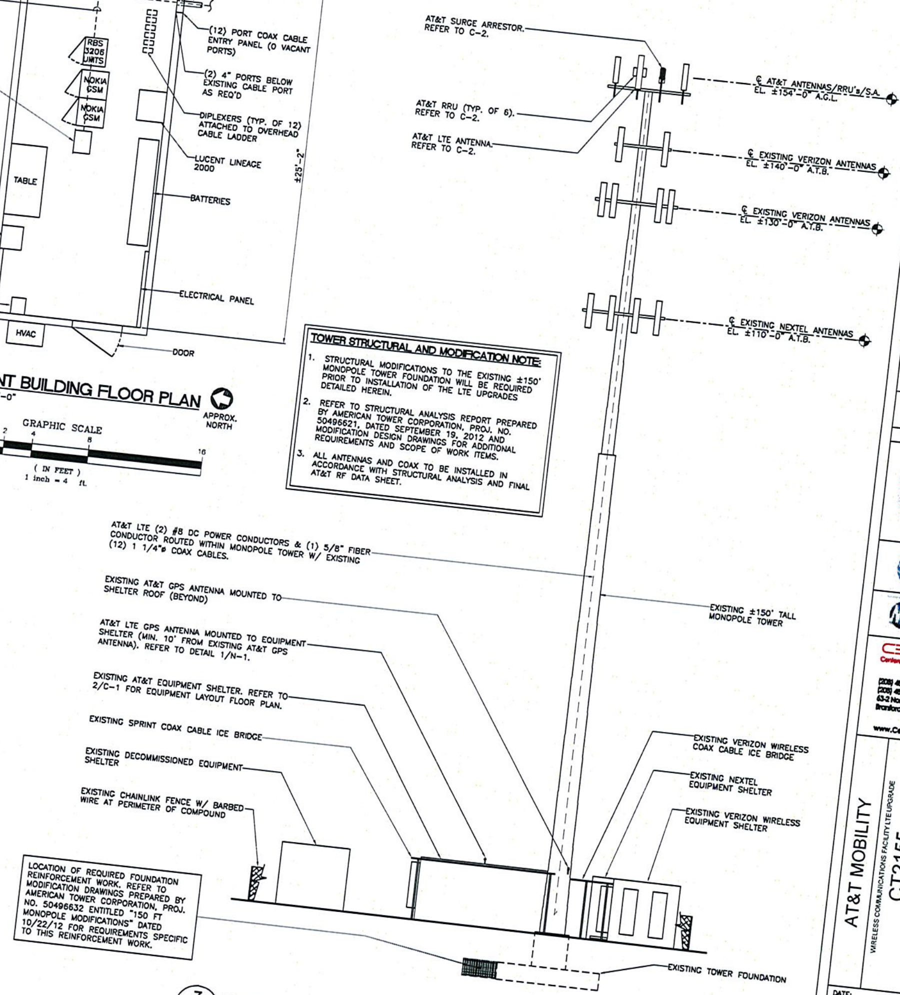
1 C-1 **COMPOUND PLAN**
SCALE: 1" = 10'-0"


±10'-5"
HVAC
DEHYDRATOR
AT&T FIBER CONDUCTOR DC POWER CONDUCTOR & 1/2" LTE GPS COAX CABLE ROUTED ALONG EXISTING OVERHEAD COAX CABLE SUPPORT LADDER
RBS 6601 IN 23" EQUIPMENT RACK WITH DC TO DC CONVERTER FOR LTE EQUIPMENT. SEE EQUIPMENT RISER DIAGRAM ON SHEET E-1 FOR SHELTER LOCATED SURGE ARRESTOR AND ADDITIONAL INFORMATION.
RBS 3206 UMTS
NOKIA CSM
NOKIA CSM
TABLE
WALL MOUNTED PDU/MCU RACK
TELCO BACKBOARD
DEHUMIDIFIER
HVAC
AT&T 3" FLEX CONDUIT WITH (2) #8 DC CONDUCTORS, (1) 5/8" FIBER CONDUCTOR & 1/2" LTE GPS CABLE ROUTED ALONG EXISTING COAX CABLE ICE BRIDGE.
(12) PORT COAX CABLE ENTRY PANEL (0 VACANT PORTS)
(2) 4" PORTS BELOW EXISTING CABLE PORT AS REQ'D
DIPLEXERS (TYP. OF 12) ATTACHED TO OVERHEAD CABLE LADDER
LUCENT LINEAGE 2000
BATTERIES
ELECTRICAL PANEL
DOOR
±25'-2"
APPROX. NORTH
GRAPHIC SCALE
4 0 2 4 8 16
(IN FEET)
1 inch = 4 ft.

2 C-1 **EQUIPMENT BUILDING FLOOR PLAN**
SCALE: 1/4" = 1'-0"

TOWER STRUCTURAL AND MODIFICATION NOTE:

1. STRUCTURAL MODIFICATIONS TO THE EXISTING ±150' MONOPOLE TOWER FOUNDATION WILL BE REQUIRED PRIOR TO INSTALLATION OF THE LTE UPGRADES DETAILED HEREIN.
2. REFER TO STRUCTURAL ANALYSIS REPORT PREPARED BY AMERICAN TOWER CORPORATION, PROJ. NO. 50496621, DATED SEPTEMBER 19, 2012 AND MODIFICATION DESIGN DRAWINGS FOR ADDITIONAL REQUIREMENTS AND SCOPE OF WORK ITEMS.
3. ALL ANTENNAS AND COAX TO BE INSTALLED IN ACCORDANCE WITH STRUCTURAL ANALYSIS AND FINAL AT&T RF DATA SHEET.


AT&T SURGE ARRESTOR. REFER TO C-2.
AT&T RRU (TYP. OF 6). REFER TO C-2.
AT&T LTE ANTENNA. REFER TO C-2.
℄ AT&T ANTENNAS/RRU's/S.A. EL. ±154'-0" A.G.L.
℄ EXISTING VERIZON ANTENNAS EL. ±140'-0" A.T.B.
℄ EXISTING VERIZON ANTENNAS EL. ±130'-0" A.T.B.
℄ EXISTING NEXTEL ANTENNAS EL. ±110'-0" A.T.B.
AT&T LTE (2) #8 DC POWER CONDUCTORS & (1) 5/8" FIBER CONDUCTOR ROUTED WITHIN MONOPOLE TOWER W/ EXISTING (12) 1 1/4"ø COAX CABLES.
EXISTING AT&T GPS ANTENNA MOUNTED TO SHELTER ROOF (BEYOND)
AT&T LTE GPS ANTENNA MOUNTED TO EQUIPMENT SHELTER (MIN. 10' FROM EXISTING AT&T GPS ANTENNA). REFER TO DETAIL 1/N-1.
EXISTING AT&T EQUIPMENT SHELTER. REFER TO 2/C-1 FOR EQUIPMENT LAYOUT FLOOR PLAN.
EXISTING SPRINT COAX CABLE ICE BRIDGE
EXISTING DECOMMISSIONED EQUIPMENT
EXISTING CHAINLINK FENCE W/ BARBED WIRE AT PERIMETER OF COMPOUND
EXISTING ±150' TALL MONOPOLE TOWER
EXISTING VERIZON WIRELESS COAX CABLE ICE BRIDGE
EXISTING NEXTEL EQUIPMENT SHELTER
EXISTING VERIZON WIRELESS EQUIPMENT SHELTER
LOCATION OF REQUIRED FOUNDATION REINFORCEMENT WORK. REFER TO MODIFICATION DRAWINGS PREPARED BY AMERICAN TOWER CORPORATION, PROJ. NO. 50496632 ENTITLED "150 FT MONOPOLE MODIFICATIONS" DATED 10/22/12 FOR REQUIREMENTS SPECIFIC TO THIS REINFORCEMENT WORK.
EXISTING TOWER FOUNDATION
GRAPHIC SCALE
10 0 5 10 20 40
(IN FEET)
1 inch = 10 ft.

3 C-1 **PARTIAL NORTH ELEVATION**
SCALE: 1" = 10'-0"

DESIGNED BY:				HMR
DRAWN BY:				HMR
CHK'D BY:				CFC
1	12/12/12	HMR	DEB	CONSTRUCTION
0	8/22/12	HMR	DEB	CONSTRUCTION – CLIENT REVIEW
REV.	DATE	DRAWN BY	CHK'D BY	

PROFESSIONAL ENGINEER SEAL

at&t

NEXLINK

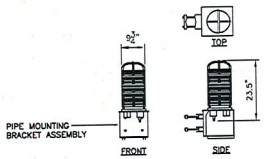
CENTEK engineering
Centered on Solutions™
(203) 488-0580
(203) 488-8587 Fax
63-2 North Branford Road
Branford, CT 06405
www.CentekEng.com

AT&T MOBILITY
WIRELESS COMMUNICATIONS FACILITY LTE UPGRADE
CT2155
NEW MILFORD
4 ELKINGTON FARM ROAD
NEW MILFORD, CT 06776

DATE: 12/12/12
SCALE: AS NOTED
JOB NO. 12063.C047

PLANS AND ELEVATION

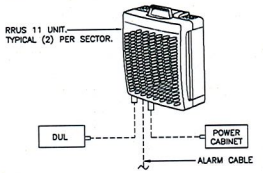
C-1
Sheet No. 3 of 6



SURGE ARRESTOR				
SITE TYPE	ARRESTOR MAKE/MODEL	QTY REQUIRED	ARRESTOR LOCATION	WEIGHT
TOWER	MAKE: RAYCAP (SQUID) MODEL: DC6-48-60-18-8F	(1) PER SITE	TOWER, ADJACENT TO AT&T ANTENNAS AND RRUs.	20 LBS. (WITHOUT MOUNT)

NOTES:
1. CONTRACTOR TO COORDINATE FINAL SURGE ARRESTOR MODEL SELECTION(S) WITH AT&T CONSTRUCTION MANAGER PRIOR TO ORDERING.
2. CONTRACTOR TO INSTALL ARRESTOR IN CONFORMANCE WITH MANUFACTURERS RECOMMENDATIONS.

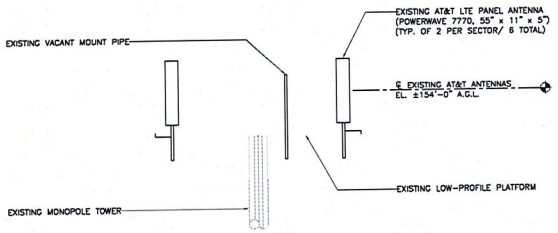
6 C-2 SURGE ARRESTOR DETAIL
NOT TO SCALE



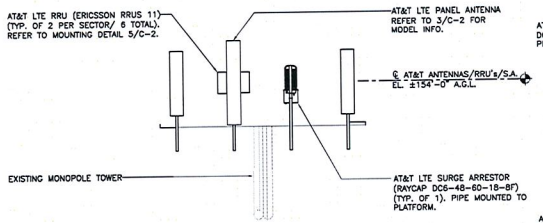
RRU (REMOTE RADIO UNIT)			
EQUIPMENT	DIMENSIONS	WEIGHT	CLEARANCES
MAKE: ERICSSON MODEL: RRUS 11	17.8"L x 17.3"W x 7.2"D	BAND 4: 44 LBS. BAND 12: 50 LBS.	ABOVE: 16" MIN. BELOW: 12" MIN. SIDE: 0" MIN.

NOTES:
1. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION WITH AT&T CONSTRUCTION MANAGER PRIOR TO ORDERING.

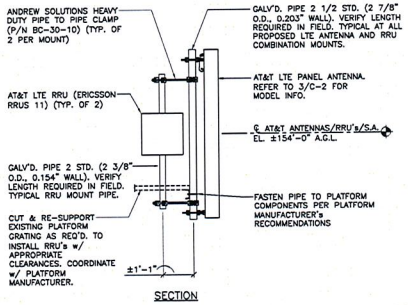
7 C-2 RRU DETAIL
NOT TO SCALE



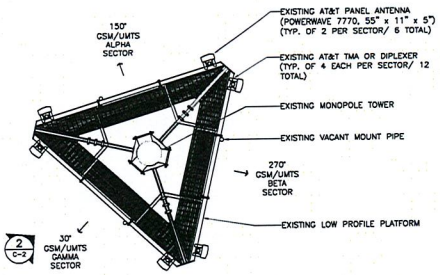
2 C-2 EXISTING ANTENNA SECTOR ELEVATION
SCALE: 1/4" = 1'-0"



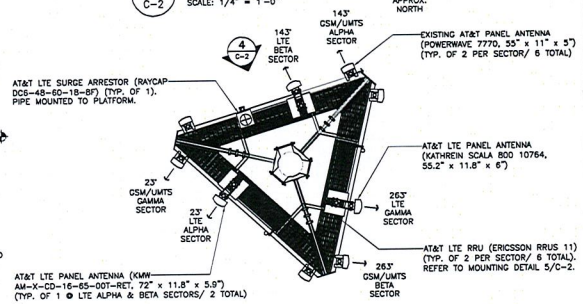
4 C-2 PROPOSED LTE ANTENNA SECTOR ELEVATION
SCALE: 1/4" = 1'-0"



5 C-2 LTE ANTENNA/RRU MOUNT DETAILS
SCALE: 1/2" = 1'-0"



1 C-2 EXISTING ANTENNA PLAN
SCALE: 1/4" = 1'-0"



3 C-2 PROPOSED ANTENNA PLAN
SCALE: 1/4" = 1'-0"

NOTES:
1. PAN ANTENNAS TO ACQUIRE PROPOSED AZIMUTHS.
2. PROVIDE MOUNTING PIPES, CROSSOVERS & ASSOCIATED HARDWARE TO COMPLETE THE PROPOSED UPGRADE.
3. REFER TO STRUCTURAL ANALYSIS AND FINAL AT&T RFDS PRIOR TO INSTALLATION OF ANTENNAS AND COAX.

DESIGNED BY:	HAR
DRAWN BY:	HAR
CHK'D BY:	CFC

REV.	DATE	DRAWN BY	CHK'D BY	
1	12/12/12	HAR	DEB	CONSTRUCTION
0	8/22/12	HAR	DEB	CONSTRUCTION - CLIENT REVIEW

PROFESSIONAL ENGINEER SEAL

at&t

NEXLINK

CENTEK engineering
Centered on Solutions℠
(203) 488-0580
(203) 488-8587 Fax
63-2 North Branford Road
Branford, CT 06405
www.CentekEng.com

AT&T MOBILITY
WIRELESS COMMUNICATIONS FACILITY EXPEDITE
CT2155
NEW MILFORD
4 ELWOOD FARM ROAD
NEW MILFORD, CT 06776

DATE:	12/12/12
SCALE:	AS NOTED
JOB NO.	12063.C047

LTE EQUIPMENT DETAILS

C-2

Sheet No. 4 of 6

C Squared Systems, LLC
65 Dartmouth Drive, Unit A3
Auburn, NH 03032
(603) 644-2800
support@csquaredsystems.com

Calculated Radio Frequency Emissions

CT2155

(New Milford)

4 Elkington Farm Road, New Milford, CT 06776

December 12, 2012

Table of Contents

List of Tables

List of Figures

1. Introduction

The purpose of this report is to investigate compliance with applicable FCC regulations for the proposed modifications to the existing AT&T antenna arrays mounted on the monopole tower located on 4 Elkington Farm Road in New Milford, CT. The coordinates of the tower are 41° 35' 27.1" N, 73° 24' 30.9" W.

AT&T is proposing the following modifications:

1) Install three multi-band (700/850/1900/2100 MHz) antennas for their LTE network (one per sector).

2. FCC Guidelines for Evaluating RF Radiation Exposure Limits

In 1985, the FCC established rules to regulate radio frequency (RF) exposure from FCC licensed antenna facilities. In 1996, the FCC updated these rules, which were further amended in August 1997 by OET Bulletin 65 Edition 97-01. These new rules include Maximum Permissible Exposure (MPE) limits for transmitters operating between 300 kHz and 100 GHz. The FCC MPE limits are based upon those recommended by the National Council on Radiation Protection and Measurements (NCRP), developed by the Institute of Electrical and Electronics Engineers, Inc., (IEEE) and adopted by the American National Standards Institute (ANSI).

The FCC general population/uncontrolled limits set the maximum exposure to which most people may be subjected. General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

Public exposure to radio frequencies is regulated and enforced in units of milliwatts per square centimeter (mW/cm^2). The general population exposure limits for the various frequency ranges are defined in the attached "FCC Limits for Maximum Permissible Exposure (MPE)" in Attachment B of this report.

Higher exposure limits are permitted under the occupational/controlled exposure category, but only for persons who are exposed as a consequence of their employment and who have been made fully aware of the potential for exposure, and they must be able to exercise control over their exposure. General population/uncontrolled limits are five times more stringent than the levels that are acceptable for occupational, or radio frequency trained individuals. Attachment B contains excerpts from OET Bulletin 65 and defines the Maximum Exposure Limit.

Finally, it should be noted that the MPE limits adopted by the FCC for both general population/uncontrolled exposure and for occupational/controlled exposure incorporate a substantial margin of safety and have been established to be well below levels generally accepted as having the potential to cause adverse health effects.

3. RF Exposure Prediction Methods

The emission field calculation results displayed in the following figures were generated using the following formula as outlined in FCC bulletin OET 65:

$$\text{Power Density} = \left(\frac{1.6^2 \times EIRP}{4\pi \times R^2} \right) \text{x Off Beam Loss}$$

Where:

EIRP = Effective Isotropic Radiated Power

R = Radial Distance = $\sqrt{(H^2 + V^2)}$

H = Horizontal Distance from antenna in meters

V = Vertical Distance from radiation center of antenna in meters

Ground reflection factor of 1.6

Off Beam Loss is determined by the selected antenna pattern

These calculations assume that the antennas are operating at 100 percent capacity and power, and that all channels are transmitting simultaneously. Obstructions (trees, buildings, etc.) that would normally attenuate the signal are not taken into account. The calculations assume even terrain in the area of study and do not take into account actual terrain elevations which could attenuate the signal. As a result, the predicted signal levels reported below are much higher than the actual signal levels will be from the finished modifications.

4. Calculation Results

Table 1 below outlines the power density information for the site. Because the proposed AT&T antennas are directional in nature, the majority of the RF power is focused out towards the horizon. As a result, there will be less RF power directed below the antennas relative to the horizon, and consequently lower power density levels around the base of the tower. Please refer to Attachment C for the vertical patterns of the proposed AT&T antennas. The calculated results for AT&T in Table 1 include a nominal 10 dB off-beam pattern loss to account for the lower relative gain below the antennas.

Carrier	Antenna Height (Feet)	Operating Frequency (MHz)	Number of Trans.	ERP Per Transmitter (Watts)	Power Density (mw/cm^2)	Limit	%MPE
Cingular UMTS	*152*	*880*	*1*	*500*	*0.0078*	*0.5867*	*1.33%*
Cingular UMTS	*152*	*1900*	*1*	*500*	*0.0078*	*1.0000*	*0.78%*
Cingular GSM	*152*	*880*	*4*	*296*	*0.0184*	*0.5867*	*3.14%*
Cingular GSM	*152*	*1930*	*2*	*427*	*0.0133*	*1.0000*	*1.33%*
AT&T	*120*	*869*	*8*	*266*	*0.0531*	*0.5793*	*9.17%*
AT&T	*120*	*1900*	*2*	*150*	*0.0075*	*1.0000*	*0.75%*
PageNet	157	930	2	165	0.0048	0.6200	0.78%
Nextel	110	851	9	100	0.0267	0.5673	4.71%
Sprint	140	1962.5	11	395.5	0.0798	1.0000	7.98%
Verizon cellular	130	869	9	260	0.0498	0.5793	8.59%
Verizon PCS	130	1970	11	254	0.0594	1.0000	5.94%
Verizon AWS	130	2145	1	670	0.0143	1.0000	1.43%
Verizon LTE	130	698	1	849	0.0181	0.4653	3.88%
AT&T UMTS	154	880	2	565	0.0017	0.5867	0.29%
AT&T UMTS	154	1900	2	875	0.0027	1.0000	0.27%
AT&T LTE	154	734	1	1313	0.0020	0.4893	0.41%
AT&T GSM	154	880	1	283	0.0004	0.5867	0.07%
AT&T GSM	154	1900	4	525	0.0032	1.0000	0.32%
						Total	34.67%

Table 1: Carrier Information[1] [2] [3]

[1] The existing CSC filing for Cingular and AT&T should be removed and replaced with the updated AT&T technologies and values provided in Table 1. The power density information for carriers other than AT&T was taken directly from the CSC database dated 7/26/2012. Please note that %MPE values listed are rounded to two decimal points. The total %MPE listed is a summation of each unrounded contribution. Therefore, summing each rounded value may not reflect the total value listed in the table.

[2] In the case where antenna models are not uniform across all 3 sectors for the same frequency band, the antenna model with the highest gain was used for the calculations to present a worse-case scenario.

[3] Antenna height listed for AT&T is in reference to the American Tower Corporation Structural Analysis dated September 19, 2012.

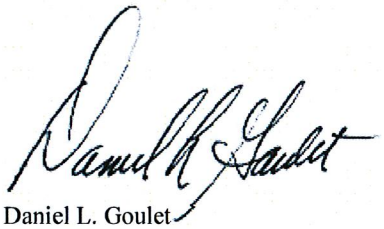
5. Conclusion

The above analysis verifies that emissions from the existing site will be below the maximum power density levels as outlined by the FCC in the OET Bulletin 65 Ed. 97-01. Even when using conservative methods, the cumulative power density from the proposed transmit antennas at the existing facility is well below the limits for the general public. The highest expected percent of Maximum Permissible Exposure at ground level is **34.67% of the FCC limit**.

As noted previously, obstructions (trees, buildings, etc.) that would normally attenuate the signal are not taken into account. As a result, the predicted signal levels are more conservative (higher) than the actual signal levels will be from the finished modifications.

6. Statement of Certification

I certify to the best of my knowledge that the statements in this report are true and accurate. The calculations follow guidelines set forth in ANSI/IEEE Std. C95.3, ANSI/IEEE Std. C95.1 and FCC OET Bulletin 65 Edition 97-01.



Daniel L. Goulet
C Squared Systems, LLC

December 12, 2012
Date

Attachment A: References

OET Bulletin 65 - Edition 97-01 - August 1997 Federal Communications Commission Office of Engineering & Technology

ANSI C95.1-1982, American National Standard Safety Levels With Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 300 kHz to 100 GHz. IEEE-SA Standards Board

IEEE Std C95.3-1991 (Reaff 1997), IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave. IEEE-SA Standards Board

Attachment B: FCC Limits for Maximum Permissible Exposure (MPE)

(A) Limits for Occupational/Controlled Exposure[4]

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm^2)	Averaging Time $\|E\|^2$, $\|H\|^2$ or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	($900/f^2$)*	6
30-300	61.4	0.163	1.0	6
300-1500	-	-	f/300	6
1500-100,000	-	-	5	6

(B) Limits for General Population/Uncontrolled Exposure[5]

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm^2)	Averaging Time $\|E\|^2$, $\|H\|^2$ or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	($180/f^2$)*	30
30-300	27.5	0.073	0.2	30
300-1500	-	-	f/1500	30
1500-100,000	-	-	1.0	30

f = frequency in MHz * Plane-wave equivalent power density

Table 2: FCC Limits for Maximum Permissible Exposure (MPE)

[4] Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

[5] General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

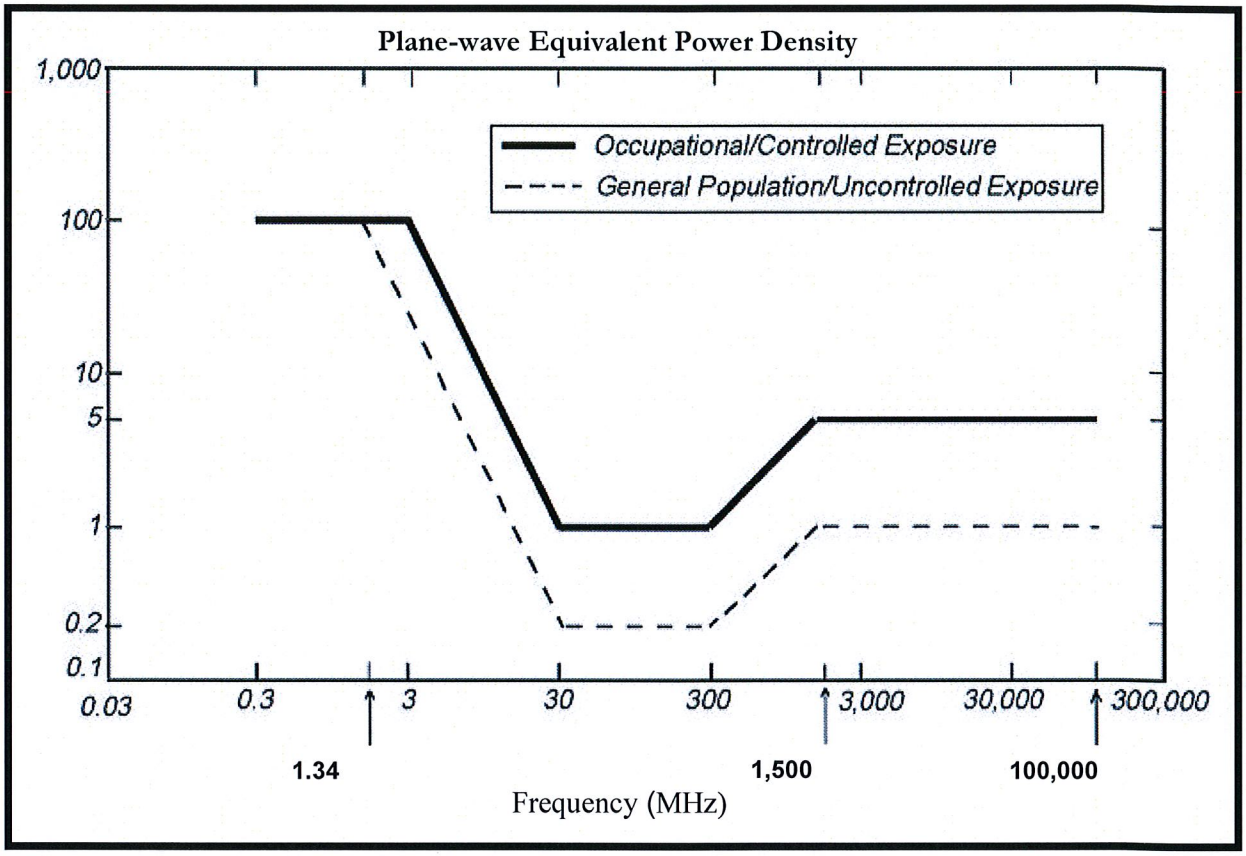
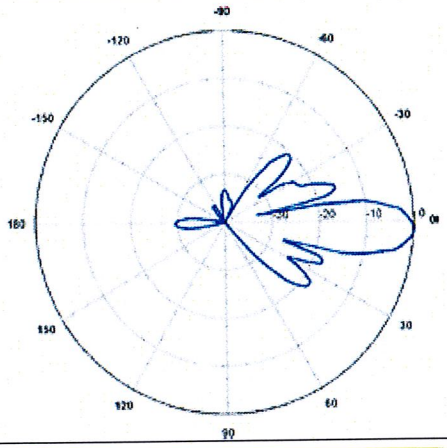


Figure 1: Graph of FCC Limits for Maximum Permissible Exposure (MPE)

Attachment C: AT&T Antenna Data Sheets and Electrical Patterns

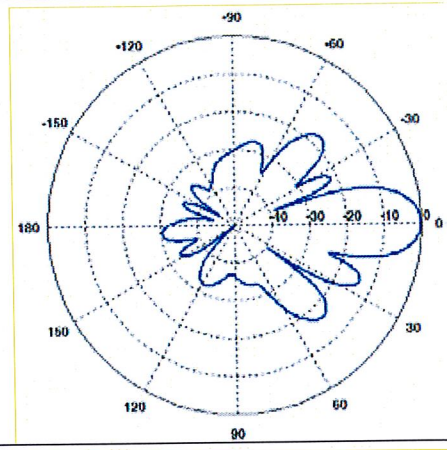
700 MHz

Manufacturer:	KMW
Model #:	AM-X-CD-16-65-00T-RET
Frequency Band:	698-806 MHz
Gain:	13.4 dBd
Vertical Beamwidth:	12.3°
Horizontal Beamwidth:	65°
Polarization:	Dual Slant ± 45°
Size L x W x D:	72.0" x 11.8" x 5.9"



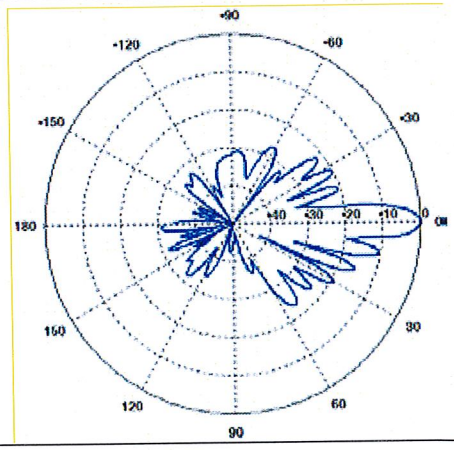
850 MHz

Manufacturer:	Powerwave
Model #:	7770.00
Frequency Band:	824-896 MHz
Gain:	11.5 dBd
Vertical Beamwidth:	15°
Horizontal Beamwidth:	82°
Polarization:	Dual Linear ± 45°
Size L x W x D:	55.0" x 11.0" x 5.0"



1900 MHz

Manufacturer:	Powerwave
Model #:	7770.00
Frequency Band:	1850-1990 MHz
Gain:	13.4 dBd
Vertical Beamwidth:	7°
Horizontal Beamwidth:	86°
Polarization:	Dual Linear ± 45°
Size L x W x D:	55.0" x 11.0" x 5.0"



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PHONE: (919) 468-0112 / FAX: (919) 466-5040

302523 - NEW MILFORD CT 2, CONNECTICUT

150 FT MONOPOLE MODIFICATIONS

PROJECT DESCRIPTION:

THE MODIFICATIONS PRESENTED ON THESE DRAWINGS ARE BASED ON THE RECOMMENDATIONS OUTLINED IN THE STRUCTURAL ANALYSIS COMPLETED UNDER ENGINEERING PROJECT NUMBER 50496621 DATED 09/19/12. SATISFACTORY COMPLETION OF THE WORK INDICATED ON THESE DRAWINGS WILL RESULT IN THE STRUCTURE MEETING THE REQUIREMENTS OF THE SPECIFICATIONS UNDER WHICH THE STRUCTURAL WAS COMPLETED.

AS-BUILT SIGN-OFF		
DESCRIPTION	SIGNATURE	DATE
CONTRACTOR NAME		
CONTRACTOR REP. (PRINT NAME)		
CONTRACTOR REP. (SIGNATURE)		
REDEVELOPMENT P.M. (PRINT NAME)		
REDEVELOPMENT P.M. (SIGNATURE)		

PROJECT SUMMARY

ATC PROJECT NUMBER: 50496632

CUSTOMER: AT&T MOBILITY

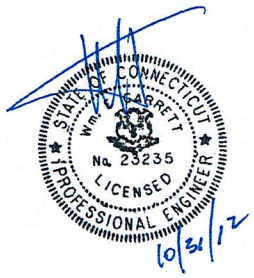
CUSTOMER SITE NUMBER: CT2155/10035014

CUSTOMER SITE NAME: NEW MILFORD

SITE ADDRESS: 4 ELKINGTON FARM ROAD
NEW MILFORD, CT 06776

DATE: 10/22/12

REVISION: 0



I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the state of Connecticut.

SHEET	SHEET TITLE	REV.
IGN	IBC GENERAL NOTES	0
A-1	MODIFICATION PROFILE	0
A-2	FOUNDATION MODIFICATION INSTALLATION DETAILS	0
A-2A	REBAR LIST	0

GENERAL

1. ALL METHODS, MATERIALS AND WORKMANSHIP SHALL FOLLOW THE DICTATES OF GOOD CONSTRUCTION PRACTICE.
2. ALL WORK INDICATED ON THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED CONTRACTORS EXPERIENCED IN TOWER AND FOUNDATION CONSTRUCTION.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY OF ANY INSTALLATION INTERFERENCES. ALL NEW WORK SHALL ACCOMMODATE EXISTING CONDITIONS. DETAILS NOT SPECIFICALLY SHOWN ON THE DRAWINGS SHALL FOLLOW SIMILAR DETAILS FOR THIS JOB.
4. ANY SUBSTITUTIONS MUST CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS, AND SHOULD BE SIMILAR TO THOSE SHOWN. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
5. ANY MANUFACTURED DESIGN ELEMENTS MUST CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS AND SHOULD BE SIMILAR TO THOSE SHOWN. THESE DESIGN ELEMENTS MUST BE STAMPED BY AN ENGINEER PROFESSIONALLY REGISTERED IN THE STATE OF THE PROJECT, AND SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION.
6. ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL CODES AND OSHA SAFETY REGULATIONS.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL MISCELLANEOUS SHORING, BRACING, TEMPORARY SUPPORTS, ETC. NECESSARY, PER TIA-1019-A-2011, TO PROVIDE A COMPLETE AND STABLE STRUCTURE AS SHOWN ON THESE DRAWINGS.
8. CONTRACTOR'S PROPOSED INSTALLATION SHALL NOT INTERFERE, NOR DENY ACCESS TO, ANY EXISTING OPERATIONAL AND SAFETY EQUIPMENT.

STRUCTURAL STEEL

1. ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATIONS, LATEST EDITION.
2. ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B695.
3. ALL U-BOLTS SHALL BE ASTM A307 OR EQUIVALENT, WITH LOCKING DEVICE, UNLESS NOTED OTHERWISE.
4. FIELD CUT EDGES, EXCEPT DRILLED HOLES, SHALL BE GROUND SMOOTH.
5. ALL FIELD CUT SURFACES AND FIELD DRILLED HOLES SHALL BE REPAIRED WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.
6. ALL FIELD DRILLED HOLES TO BE USED FOR FIELD BOLTING INSTALLATION SHALL BE STANDARD HOLES, AS DEFINED BY AISC, UNLESS NOTED OTHERWISE.

WELDING

1. ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.
2. ALL WELDS SHALL BE INSPECTED VISUALLY. 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE (100% IF REJECTABLE DEFECTS ARE FOUND) TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY.
3. INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
4. ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER METAL, PER AWS D1.1, UNLESS NOTED OTHERWISE.
5. MINIMUM WELD SIZE TO BE 0.1875 INCH FILLET WELDS, UNLESS NOTED OTHERWISE.
6. PRIOR TO FIELD WELDING GALVANIZED MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING 1/2" BEYOND ALL FIELD WELD SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL GROUND AND WELDED SURFACES WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.

BOLT TIGHTENING PROCEDURE

1. STRUCTURAL CONNECTIONS TO BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH RCSC-2004 (SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR ASTM A490 BOLTS.)
2. TIGHTEN FLANGE BOLTS BY AISC "TURN-OF-THE-NUT" METHOD, USING THE CHART BELOW:

BOLT LENGTHS UP TO AND INCLUDING FOUR DIAMETERS

1/2"	BOLTS UP TO AND INCLUDING 2.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
5/8"	BOLTS UP TO AND INCLUDING 2.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
3/4"	BOLTS UP TO AND INCLUDING 3.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
7/8"	BOLTS UP TO AND INCLUDING 3.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1"	BOLTS UP TO AND INCLUDING 4.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-1/8"	BOLTS UP TO AND INCLUDING 4.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-1/4"	BOLTS UP TO AND INCLUDING 5.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-3/8"	BOLTS UP TO AND INCLUDING 5.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-1/2"	BOLTS UP TO AND INCLUDING 6.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT

BOLT LENGTHS OVER FOUR DIAMETERS BUT NOT EXCEEDING EIGHT DIAMETERS

1/2"	BOLTS 2.25 TO 4.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
5/8"	BOLTS 2.75 TO 5.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
3/4"	BOLTS 3.25 TO 6.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
7/8"	BOLTS 3.75 TO 7.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1"	BOLTS 4.25 TO 8.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/8"	BOLTS 4.75 TO 9.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/4"	BOLTS 5.25 TO 10.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-3/8"	BOLTS 5.75 TO 11.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/2"	BOLTS 6.25 TO 12.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT

3. SPLICE BOLTS SUBJECT TO DIRECT TENSION SHALL BE INSTALLED AND TIGHTENED AS PER SECTION 8.2.1 OF THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS", LOCATED IN THE AISC MANUAL OF STEEL CONSTRUCTION. THE INSTALLATION PROCEDURE IS PARAPHRASED AS FOLLOWS:

   FASTENERS SHALL BE INSTALLED IN PROPERLY ALIGNED HOLES AND TIGHTENED BY ONE OF THE METHODS DESCRIBED IN SUBSECTION 8.2.1 THROUGH 8.2.4.

   8.2.1 TURN-OF-NUT PRETENSIONING
   BOLTS SHALL BE INSTALLED IN ALL HOLES OF THE CONNECTION AND BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1, UNTIL ALL THE BOLTS ARE SIMULTANEOUSLY SNUG TIGHT AND THE CONNECTION IS FULLY COMPACTED. FOLLOWING THIS INITIAL OPERATION ALL BOLTS IN THE CONNECTION SHALL BE TIGHTENED FURTHER BY THE APPLICABLE AMOUNT OF ROTATION SPECIFIED ABOVE. DURING THE TIGHTENING OPERATION THERE SHALL BE NO ROTATION OF THE PART NOT TURNED BY THE WRENCH. TIGHTENING SHALL PROGRESS SYSTEMATICALLY.

4. ALL OTHER BOLTED CONNECTIONS SHALL BE BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1 OF THE SPECIFICATION.

   ALL BOLT HOLES SHALL BE ALIGNED TO PERMIT INSERTION OF THE BOLTS WITHOUT UNDUE DAMAGE TO THE THREADS. BOLTS SHALL BE PLACED IN ALL HOLES WITH WASHERS POSITIONED AS REQUIRED AND NUTS THREADED TO COMPLETE THE ASSEMBLY. COMPACTING THE JOINT TO THE SNUG-TIGHT CONDITION SHALL PROGRESS SYSTEMATICALLY FROM THE MOST RIGID PART OF THE JOINT. THE SNUG-TIGHTENED CONDITION IS THE TIGHTNESS THAT IS ATTAINED WITH A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF AN IRONWORKER USING AN ORDINARY SPUD WRENCH TO BRING THE CONNECTED PLIES INTO FIRM CONTACT.

PAINT

1. AS REQUIRED, CLEAN AND PAINT PROPOSED STEEL ACCORDING TO FAA ADVISORY CIRCULAR AC 70/7460-1K.

APPLICABLE CODES AND STANDARDS

1. ANSI/TIA: STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES, 222-G EDITION.
2. 2003 INTERNATIONAL BUILDING CODE WITH 2005 CONNECTICUT SUPPLEMENTS AND 2009 CONNECTICUT AMENDMENTS.
3. ACI 318: AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, 318-02.
4. CRSI: CONCRETE REINFORCING STEEL INSTITUTE, MANUAL OF STANDARD PRACTICE, LATEST EDITION.
5. AISC: AMERICAN INSTITUTE OF STEEL CONSTRUCTION, MANUAL OF STEEL CONSTRUCTION, LATEST EDITION.
6. AWS: AMERICAN WELDING SOCIETY D1.1, STRUCTURAL WELDING CODE, LATEST EDITION.

SPECIAL INSPECTION

1. A QUALIFIED INDEPENDENT TESTING LABORATORY, EMPLOYED BY THE OWNER, SHALL PERFORM INSPECTION AND TESTING IN ACCORDANCE WITH IBC 2003, SECTION 1704 AS REQUIRED BY PROJECT SPECIFICATIONS FOR THE FOLLOWING CONSTRUCTION WORK:
   a) STRUCTURAL WELDING (CONTINUOUS INSPECTION OF FIELD WELD ONLY)
   b) HIGH STRENGTH BOLTS (PERIODIC INSPECTION OF A325 EXTENSION FLANGE BOLTS TO BE TIGHTENED PER "TURN-OF-THE-NUT" METHOD)
2. THE INSPECTION AGENCY SHALL SUBMIT INSPECTION AND TEST REPORTS TO THE BUILDING DEPARTMENT, THE ENGINEER OF RECORD, AND THE OWNER IN ACCORDANCE WITH IBC 2003, SECTION 1704, UNLESS THE FABRICATOR IS APPROVED BY THE BUILDING OFFICIAL TO PERFORM SUCH WORK WITHOUT THE SPECIAL INSPECTIONS.

AMERICAN TOWER®
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PHONE: (919) 468-0112
FAX: (919) 468-5415
NYSE AMT

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	DMB	10/22/12

ATC SITE NUMBER:
302523

ATC SITE NAME:
NEW MILFORD CT 2
CONNECTICUT

SITE ADDRESS:
4 ELKINGTON FARM ROAD
NEW MILFORD, CT 06776

STATE OF CONNECTICUT
SCOTT GARRETT
No. 23235
LICENSED
PROFESSIONAL ENGINEER
10/31/12

DRAWN BY:	DMB
APPROVED BY:	
DATE DRAWN:	10/22/12
ATC JOB NO:	50496632

SHEET TITLE:
IBC GENERAL NOTES

SHEET NUMBER:	REV. #
IGN	0

AT&T MOBILITY
EL: 151.0' [PROPOSED RECO]

SPRINT NEXTEL
EL: 140.0' [EXISTING]

VERIZON WIRELESS
EL: 130.0' [EXISTING]

SPRINT NEXTEL
EL: 106.0'± [EXISTING]

SPRINT NEXTEL
EL: 75.0' [LEASED]

EL: 150.0'
[TOP OF STRUCTURE]

SECTION 6

EL: 110.0'

SECTION 5

EL: 85.0'

SECTION 4

EL: 75.0'

SECTION 3

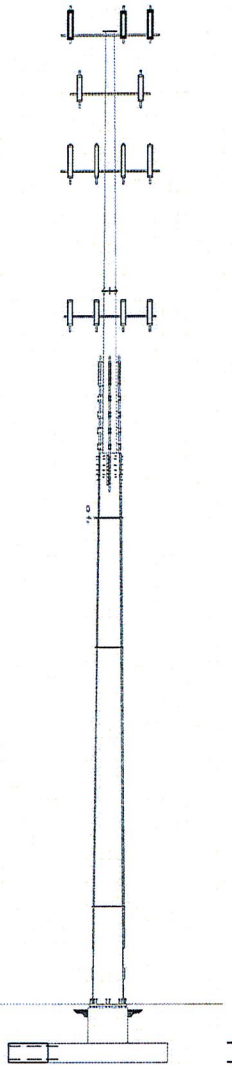
EL: 55.0'

SECTION 2

EL: 15.0'

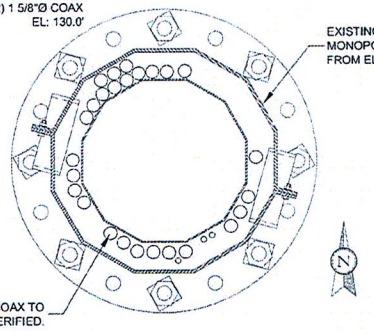
SECTION 1

EL: 0.0'
[BOTTOM OF STRUCTURE]



INSTALL FOUNDATION MODIFICATIONS FROM EL: -9.0'± TO -6.0'±. SEE SHEETS A-2 & A-2A FOR INSTALLATION DETAILS.

TOWER ELEVATION VIEW



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NOTE:
PROPOSED AT&T MOBILITY COAX TO BE INSTALLED INSIDE MONOPOLE.

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SUITE 300
CARY, NC 27518
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FAX: (919) 468-5415
NYSE AMT

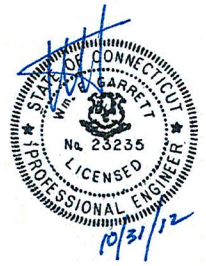
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	DMB	10/22/12

ATC SITE NUMBER:
302523

ATC SITE NAME:
NEW MILFORD CT 2

CONNECTICUT

SITE ADDRESS:
4 ELKINGTON FARM ROAD
NEW MILFORD, CT 06776

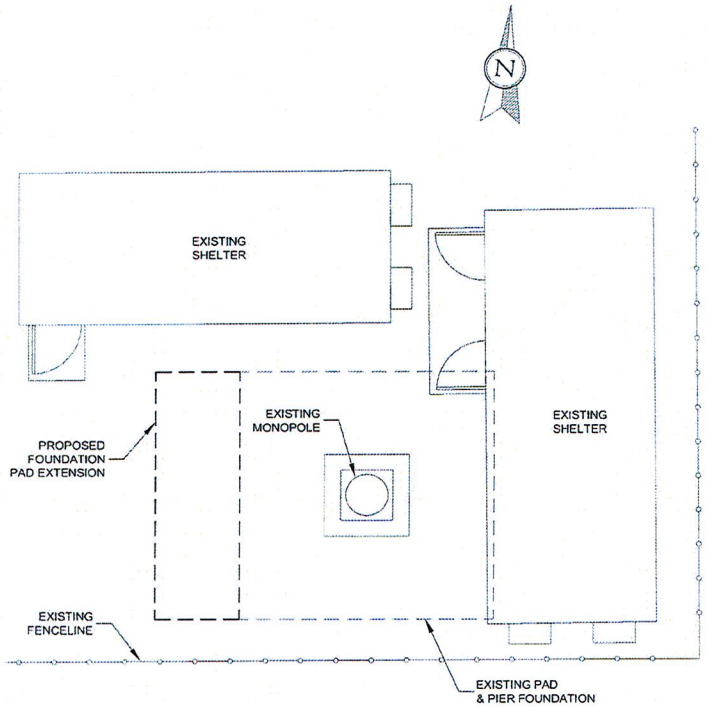


DRAWN BY:	DMB
APPROVED BY:	JGC
DATE DRAWN:	10/22/12
ATC JOB NO:	50496632

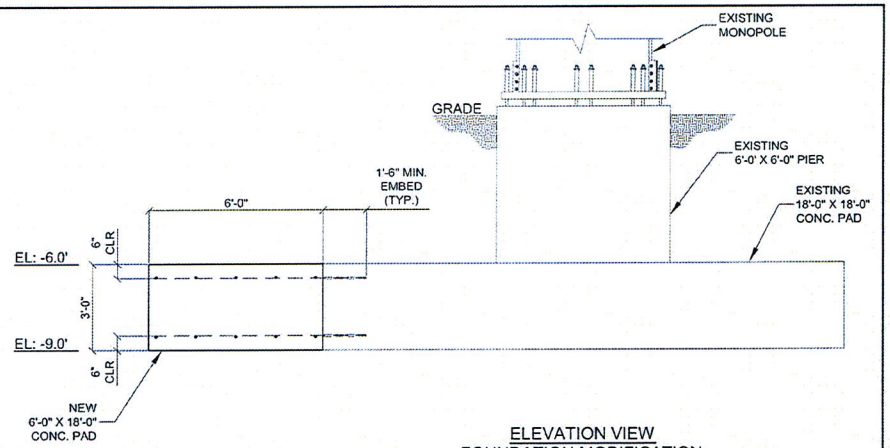
SHEET TITLE:

MODIFICATION PROFILE

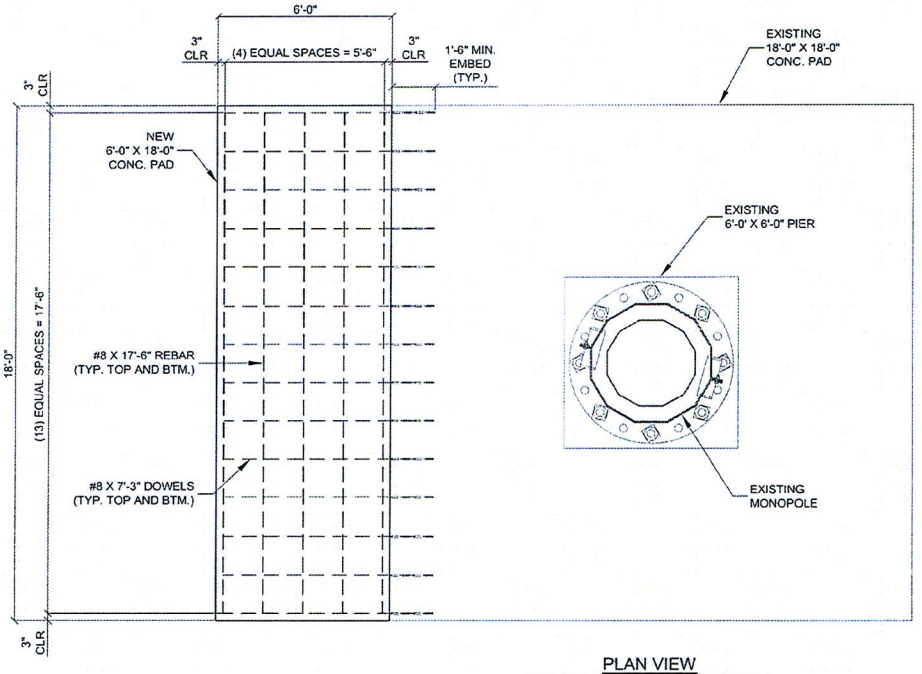
SHEET NUMBER:	REV. #
A-1	0



SITE LAYOUT
FOUNDATION MODIFICATION ORIENTATION



ELEVATION VIEW
FOUNDATION MODIFICATION



PLAN VIEW
FOUNDATION MODIFICATION

NOTES:

1. CONCRETE PAD TO BE INSTALLED ON EXISTING BASE FOUNDATION. TOTAL CONCRETE REQUIRED: 12.0± CUBIC YARDS.
2. FOR REBAR LIST/FOUNDATION NOTES SEE SHEET A-2A.
3. CONCRETE COVER OVER REBAR 3" MIN. (TYP.)
4. CONCRETE COMPRESSIVE STRENGTH @ 28 DAYS = 4500 PSI.
5. DRILLED HOLES TO BE 1 1/4"Ø. DO NOT CUT REBAR IN EXISTING FOUNDATION.
6. DRILLED HOLES SHALL BE FREE OF MOISTURE, DEBRIS AND LAITANCE.
7. GROUT #8 DOWELS INTO EXISTING FOUNDATION WITH HILTI HIT RE500 EPOXY.
8. REMOVE ALL LOOSE CONCRETE FROM EXISTING FOUNDATION PIER PRIOR TO POURING NEW CONCRETE.
9. COAT INTERFACE OF NEW AND EXISTING CONCRETE WITH SIKADUR 32, HI-MOD LPL BONDING AGENT OR APPROVED EQUIVALENT, PRIOR TO POURING NEW CONCRETE.

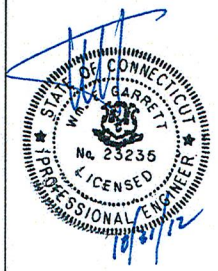
AMERICAN TOWER®
ATC TOWER SERVICES, INC.
400 REGENCY FOREST DRIVE
SUITE 300
CARY, NC 27518
PHONE: (919) 468-0112
FAX: (919) 468-5415
NYSE AMT

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	DMB	10/22/12

ATC SITE NUMBER:
302523

ATC SITE NAME:
NEW MILFORD CT 2
CONNECTICUT

SITE ADDRESS:
4 ELKINGTON FARM ROAD
NEW MILFORD, CT 06776



DRAWN BY:	DMB
APPROVED BY:	JCJ
DATE DRAWN:	10/22/12
ATC JOB NO:	50496632

SHEET TITLE:
FOUNDATION MODIFICATION INSTALLATION DETAILS

SHEET NUMBER:	REV. #
A-2	0

GENERAL FOUNDATION CONSTRUCTION NOTES

1. CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4500 PSI AT 28 DAYS (UNLESS NOTED).
2. MAXIMUM ALLOWED WATER/CEMENT RATIO = 0.45
3. REINFORCED CONCRETE CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH ACI 318.
4. MINIMUM CONCRETE COVER OVER REBAR IS 3", OR AS NOTED.
5. POUR CONCRETE PAD ON UNDISTURBED SOIL.
6. BACKFILL SHALL BE SELECTED MATERIAL, WELL COMPACTED IN LAYERS NOT EXCEEDING 12".
7. BACKFILL SHALL BE PLACED SO AS TO PREVENT THE ACCUMULATION OF WATER AROUND THE FOUNDATION.
8. EMBEDDED STRUCTURAL ANCHOR STEEL SUPPLIED BY AMERICAN TOWER.
9. REINFORCING MATERIAL SHALL BE IN ACCORDANCE WITH ASTM A615.
10. ALL REBAR TO BE GRADE 60 (UNLESS NOTED).
11. ALL REBAR (HORIZONTAL & VERTICAL) SHALL BE SECURELY WIRE TIED TO PREVENT DISPLACEMENT DURING POURING OF CONCRETE.
12. COLD CONSTRUCTION JOINTS TO BE THOROUGHLY CLEANED & WETTED PRIOR TO SECOND POUR.

FOUNDATION AND ANCHOR TOLERANCES

ALL TOWERS

1. CONCRETE DIMENSIONS: ±1"
2. DEPTH OF FOUNDATIONS: PLUS 3" OR MINUS 0"
3. DRILLED FOUNDATIONS OUT OF PLUMB: 1"
4. REINFORCING STEEL PLACEMENT: ±1/2" INCLUDING CONCRETE COVER
5. PROJECTIONS OF EMBEDMENTS: ±1/4"
6. VERTICAL EMBEDMENTS OUT OF PLUMB: 1°

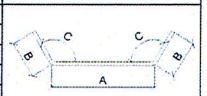
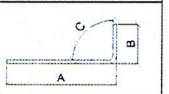
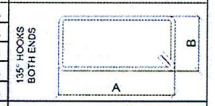
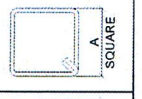
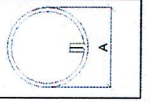
SELF-SUPPORT TOWERS

7. FACE SPREAD DIMENSION CENTER TO CENTER OF ANCHOR BOLT CIRCLES: ±1/8" PER 5'-0" OF FACE SPREAD
8. MAXIMUM DISTANCE FROM CENTERLINE OF ANCHOR BOLTS TO CENTERLINE OF FOUNDATION: 1/24th OF PIER DIAMETER UP TO A MAXIMUM OF 2"
9. MAXIMUM DIFFERENCE BETWEEN ANY TWO FOUNDATION ELEVATIONS: 2"
10. ANCHOR BOLT SPACING: ±1/8"
11. ANCHOR BOLT CIRCLE ORIENTATION: ±0.5°
12. ANCHOR BOLT CIRCLE DIAMETER: ±1/8"

GUYED TOWERS

13. GUY RADIUS: ±3% OF TOWER HEIGHT
14. ANCHOR ELEVATION: 3% OF TOWER HEIGHT ABOVE OR BELOW TOWER BASE. IF ELEVATIONS OF ANCHORS VARY BY MORE THAN 3%, ANCHOR RADIUS IS TO BE CHANGED TO KEEP THE ANCHOR LOCATED ON THE GUY FORCE RESULTANT. CALL AMERICAN TOWER FOR ASSISTANCE IF REQUIRED.
15. ANCHOR ALIGNMENT: (PERPENDICULAR TO GUY RADIUS): ±1°
16. ANCHOR ROD SLOPE: ±1°
17. ANCHOR ROD ALIGNMENT: TOWARDS TOWER CENTER POINT ±0.25°
18. GUY INITIAL TENSION: ±10% OF VALUE SPECIFIED ON MODIFICATION PROFILE DRAWING
19. GUY ANCHOR HEAD SIDES VERTICAL: ±1°

BENT REBAR LIST

MARK	QTY	BAR SIZE	LENGTH (ft)	WEIGHT (lb)	TYPE	A	B	C	BENDING DIAGRAM
					BENT				
					BENT				
					BENT				
					BENT				
					BENT				
					BENT				
					BENT				
					BENT				
					BENT				
					BENT				
					RECT. STIRRUP			N/A	
					RECT. STIRRUP			N/A	
					RECT. STIRRUP			N/A	
					RECT. STIRRUP			N/A	
					RECT. STIRRUP			N/A	
					SQUARE STIRRUP		N/A	N/A	
					SQUARE STIRRUP		N/A	N/A	
					SQUARE STIRRUP		N/A	N/A	
					SQUARE STIRRUP		N/A	N/A	
					SQUARE STIRRUP		N/A	N/A	
					TIE		N/A	N/A	
					TIE		N/A	N/A	
					TIE		N/A	N/A	
					TIE		N/A	N/A	
					TIE		N/A	N/A	

STRAIGHT REBAR LIST

MARK	QTY	BAR SIZE	LENGTH (ft)	WEIGHT (lb)
--	10	8	17'-6"	467
--	28	8	7'-3"	542
			TOTAL WEIGHT (lb) =	1009

REBAR SIZES & WEIGHTS			STANDARD HOOK DETAILS			
BAR SIZE	WEIGHT (lb/ft)	DIA. (in.)	BEND RADIUS (in.)	90° HOOK (in.)	135° HOOK (in.)	LAP (in.)
3	0.3755	0.375	1.5	5	8	12
4	0.6676	0.500	2.0	7	10	18
5	1.043	0.625	2.5	9	---	24
6	1.502	0.760	3.0	10	---	---
7	2.045	0.875	3.5	12	---	---
8	2.670	1.000	4.0	14	---	---
9	3.400	1.128	5.5	16	---	---
10	4.303	1.270	6.5	18	---	---
11	5.313	1.410	7.0	20	---	---

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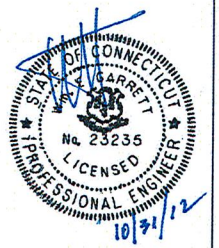


DRAWN BY:	DMB
APPROVED BY:	JGT
DATE DRAWN:	10/22/12
ATC JOB NO:	50496632

SHEET TITLE:
REBAR LIST

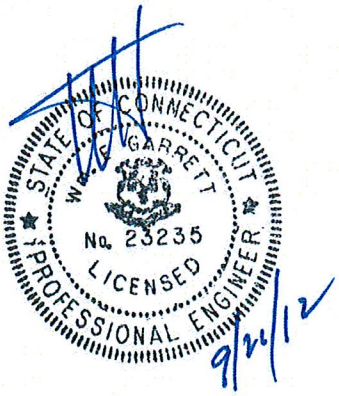
SHEET NUMBER: A-2A
REV. # 0

AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure	:	**150 ft Monopole**
ATC Site Name	:	**New Milford CT 2, CT**
ATC Site Number	:	**302523**
Engineering Number	:	**50496621**
Proposed Carrier	:	**AT&T Mobility**
Carrier Site Name	:	**New Milford**
Carrier Site Number	:	**CT2155/10035014**
Site Location	:	**4 Elkington Farm Rd** **New Milford, CT 06776-2909** **41.590861,-73.408600**
County	:	**Litchfield**
Date	:	**September 19, 2012**
Max Usage	:	**100%**
Result	:	**Fail [Foundation]**

Joseph R. Johnston
Project Engineer



AMERICAN TOWER®
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Structural Analysis Report

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Joseph R. Johnston
Project Engineer

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Table of Contents

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Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 150 ft monopole to reflect the change in loading by AT&T Mobility.

Supporting Documents

Tower Drawings	ITT Meyer Type B per AT&T Design Spec. AT-8935, dated April 13, 1984
Foundation Drawing	SNET Job #3C239, dated April 20, 1990
Geotechnical Report	JSEC Job #14974-NM, dated January 28, 2002
Modifications	Scientel CMS Modification Drawings, dated March 7, 2002 ATC Project #41658239, dated December 22, 2008

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:	95 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	40 mph (3-Second Gust) w/ 3/4" 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

Conclusion

Based on the analysis results, the structure does not meet the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report after the modifications listed below are completed:

- Reinforce foundation

If you have any questions or require additional information, please contact me via email at joseph.johnston@americantower.com or call 919-466-5030.

Existing and Reserved Equipment

Mount Elev.[1] (ft)	Qty.	Antenna	Mount Type	Coax (in)	Carrier
140.0	3	Alcatel-Lucent 1900 MHz 4x45 R	Low Profile Platform	(6) 1 5/8 (3) 1 1/4 Hybriflex	Sprint Nextel
	3	Alcatel-Lucent 800 MHz 2X50W R			
	6	Decibel DB980H90E-M			
	3	RFS APXVSPP18-C-A20			
130.0	1	Antel BXA-171063-8BF	Low Profile Platform	(12) 1 5/8	Verizon Wireless
	2	Antel BXA-171085-8BF			
	3	Antel BXA-70063/6CF			
	2	Antel LPA-80063/6CF			
	4	Antel LPA-80080/6CF			
	6	RFS FD9R6004/1C-3L			
110.0	9	48" x 12" Panels	T-Arms	(12) 1 5/8	Sprint Nextel
	3	72" x 12" Panels			
75.0	1	PCTEL GPS-TMG-HR-26N	Flush	(1) 1/2	

Proposed Equipment

Elevation[1] (ft)		Qty.	Antenna	Mount Type	Coax (in)	Carrier
Mount	RAD					
151.0	154.0	6	Andrew ABT-DMDM-ADB	Low Profile Platform	(12) 1 1/4 (2) 19.7 mm (1) 10 mm (1) 3" Conduit	AT&T Mobility
		6	Ericsson RRUS 11 (Band 12)			
		3	KMW AM-X-CD-16-65-00T-RET			
		6	Powerwave 7770.00A			
		6	Powerwave TT19-08BP111-001			

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

Install proposed coax inside the pole shaft.

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	69%	Pass
Shaft	91%	Pass
Base Plate	51%	Pass
Flanges	39%	Pass
Flange Bolts	100%	Pass
Reinforcement	55%	Pass

Foundations

Reaction Component	Analysis Reactions
Moment (Kips-Ft)	2902.6
Axial (Kips)	81.8
Shear (Kips)	33.0

The structure foundation was found to be inadequate through analysis based on geotechnical and foundation information. Modification or reinforcement of the foundation will be required.

Deflection and Sway*

Antenna Elevation (ft)	Deflection (ft)	Sway (Rotation) (°)
150.0	1.664	1.678

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

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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.

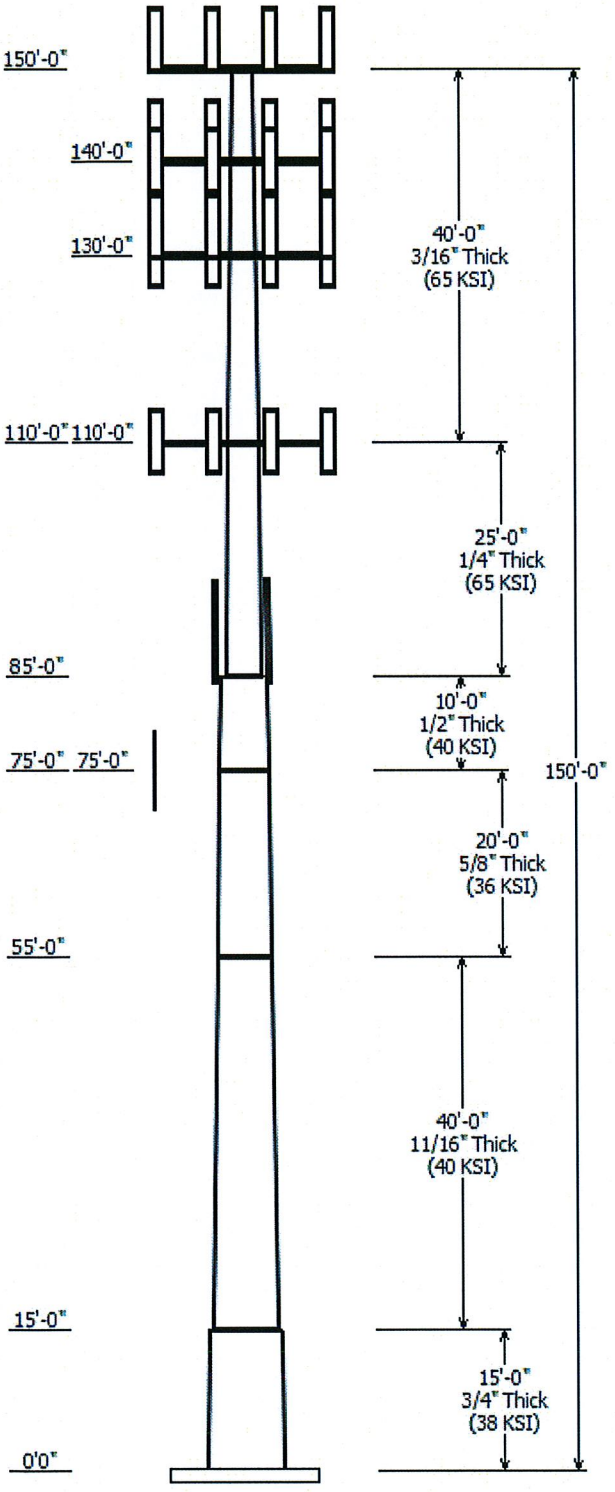
It is the responsibility of the client to ensure that the information provided to ATC Engineering Services and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with 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 Engineering Services is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.

Job Information

Pole :	302523	Code:	ANSI/TIA-222 Rev G
Description :	150 ft Monopole		
Client :	AT&T Mobility	Struct Class :	II
Location :	New Milford CT 2, CT		
Shape :	12 Sides	Exposure :	B
Height :	150.00 (ft)	Topo :	1
Base Elev (ft):	0.00		
Taper:	0.15670(in/ft)		



Sections Properties

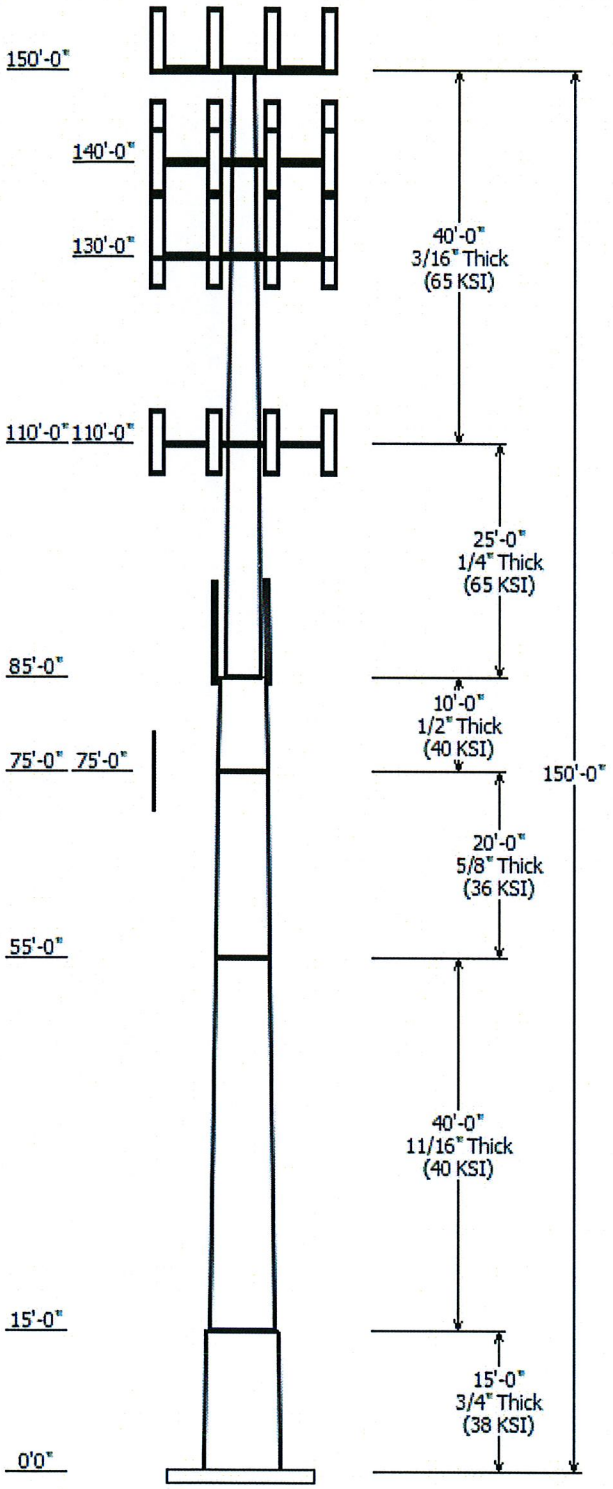
Shaft Section	Length (ft)	Diameter (in) Accross Flats Top	Bottom	Thick (in)	Joint Type	Overlap Length (in)	Taper (in/ft)	Steel Grade (ksi)
1	15.000	45.39	53.90	0.750		0.000	0.567000	38
2	40.000	39.10	45.60	0.688	Butt Joint	0.000	0.162500	40
3	20.000	36.13	39.40	0.625	Butt Joint	0.000	0.163330	36
4	10.000	34.49	36.13	0.500	Butt Joint	0.000	0.163333	40
5	25.000	21.25	25.23	0.250	Butt Joint	0.000	0.159200	65
6	40.000	15.00	21.25	0.188	Butt Joint	0.000	0.156250	65

Discrete Appurtenance

Attach Elev (ft)	Force Elev (ft)	Qty	Description
150.000	154.000	6	Ericsson RRUS 11
150.000	154.000	6	Powerwave TT19-08BP111-001
150.000	154.000	3	KMW AM-X-CD-16-65-00T-RET
150.000	151.000	1	Round Low Profile Platform
150.000	154.000	6	Andrew ABT-DMDM-ADB
150.000	154.000	6	Powerwave 7770.00A
140.000	140.000	3	Alcatel-Lucent 1900 MHz 4x45
140.000	140.000	3	RFS APXVSPP18-C-A20
140.000	140.000	3	Alcatel-Lucent 800 MHz 2X50W
140.000	142.000	1	Round Low Profile Platform
140.000	142.000	6	Decibel DB980H90E-M
130.000	130.000	2	Antel LPA-80063/6CF
130.000	132.000	6	RFS FD9R6004/1C-3L
130.000	130.000	1	Round Low Profile Platform
130.000	132.000	1	Antel BXA-171063-8BF
130.000	132.000	2	Antel BXA-171085-8BF
130.000	132.000	4	Antel LPA-80080/6CF
130.000	132.000	3	Antel BXA-70063/6CF
110.000	110.000	3	Round T-Arms
110.000	110.000	3	72" x 12" Panels
110.000	110.000	9	48" x 12" Panels
75.000	75.000	1	PCTEL GPS-TMG-HR-26N

Linear Appurtenance

Elev (ft) From	To	Description	Exposed To Wind
85.000	110.0	1 5/8" Coax	Yes
85.000	130.0	1 5/8" Coax	Yes
79.000	100.0	#20 Dywidag Bars	Yes
5.000	75.000	1/2" Coax	Yes
5.000	85.000	1 5/8" Coax	No
5.000	85.000	1 5/8" Coax	No
5.000	85.000	Seam Flange	Yes
5.000	140.0	1 1/4" Hybriflex	No
5.000	140.0	1 5/8" Coax	No
5.000	150.0	1 1/4" Coax	No
5.000	150.0	10 mm Cable	No



5.000	150.0	19.7 mm Cable	No
5.000	150.0	3" Conduit	No

Load Cases

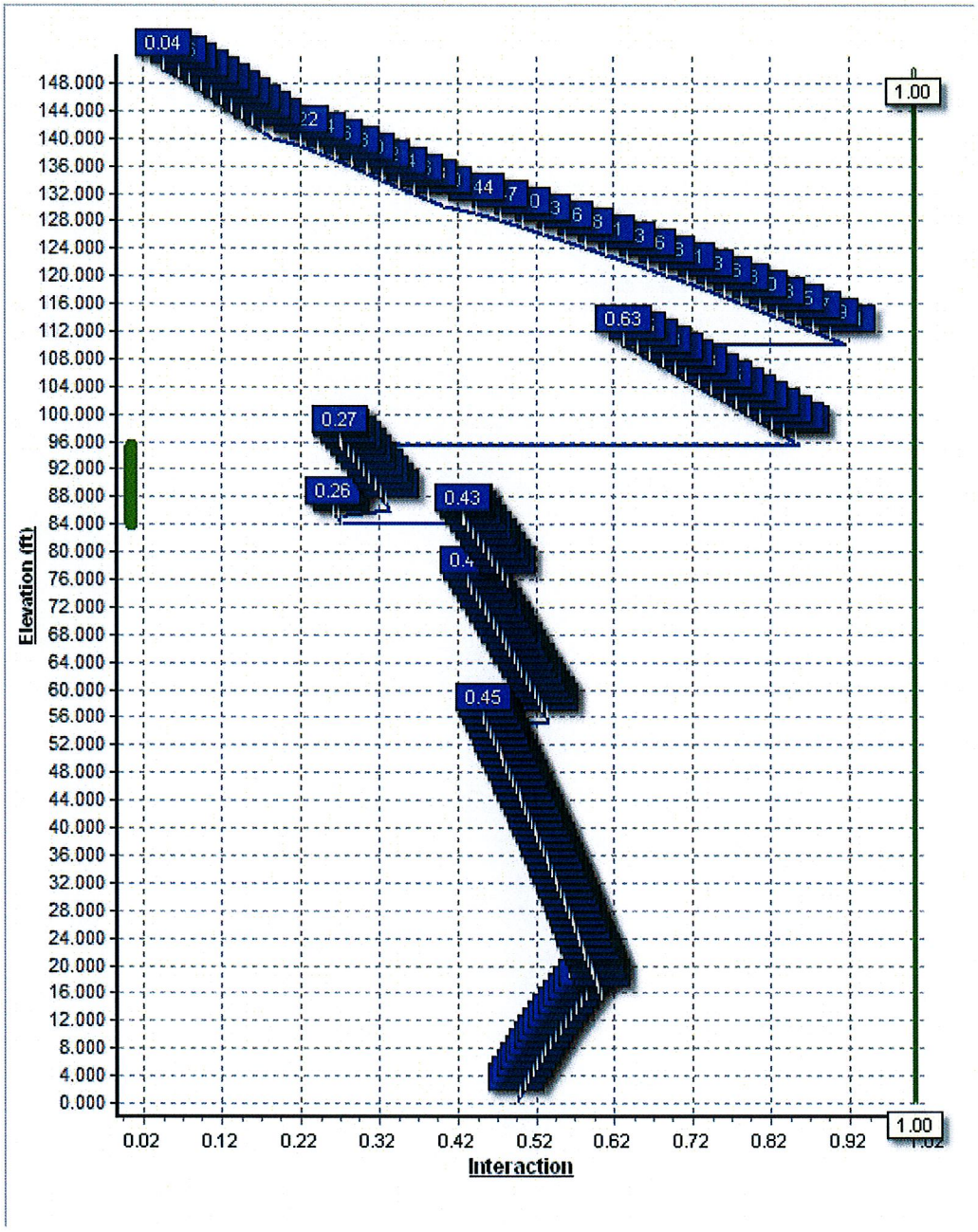
1.2D + 1.6W	95.00 mph with No Ice
0.9D + 1.6W	95.00 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	40.00 mph with 0.75 in Radial Ice
1.0D + 1.0W	60.00 mph Serviceability

Reactions

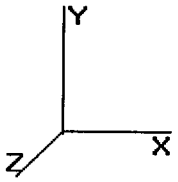
Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.6W	2902.60	32.95	57.26
0.9D + 1.6W	2851.69	32.70	43.09
1.2D + 1.0Di + 1.0Wi	432.35	4.56	81.77
1.0D + 1.0W	713.14	8.15	47.82

Dish Deflections

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


0.04
1.00
0.63
0.27
0.26
0.43
0.4
0.45
1.00
Elevation (ft)
148.000
144.000
140.000
136.000
132.000
128.000
124.000
120.000
116.000
112.000
108.000
104.000
100.000
96.000
92.000
88.000
84.000
80.000
76.000
72.000
68.000
64.000
60.000
56.000
52.000
48.000
44.000
40.000
36.000
32.000
28.000
24.000
20.000
16.000
12.000
8.000
4.000
0.000
0.02
0.12
0.22
0.32
0.42
0.52
0.62
0.72
0.82
0.92
Interaction

Pole :	302523	Code: ANSI/TIA-222 Rev G	9/21/2012 10:16:25 AM
Location :	New Milford CT 2, CT	Struct Class : II	Page: 1
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		



Shaft Section Properties

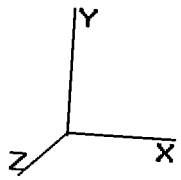
Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Slip Joint Type	Slip Joint Len (in)	Weight (lb)	Bottom Dia (in)	Bottom Elev (ft)	Bottom Area (sqin)	Bottom Ix (in^4)	Bottom W/t Ratio	Bottom D/t Ratio	Top Dia (in)	Top Elev (ft)	Top Area (sqin)	Top Ix (in^4)	Top W/t Ratio	Top D/t Ratio	Taper (in/ft)
1-12	15.000	0.7500	38		0.00	6,027	53.90	0.00	128.36	46281.3	16.58	71.87	45.39	15.00	107.82	27429.2	13.54	60.53	0.567000
2-12	40.000	0.6875	40	Butt	0.00	12,554	45.60	15.00	99.42	25598.3	15.09	66.33	39.10	55.00	85.04	16014.9	12.56	56.87	0.162500
3-12	20.000	0.6250	36	Butt	0.00	5,087	39.40	55.00	78.03	14975.0	14.21	63.04	36.13	75.00	71.46	11500.2	12.81	57.81	0.163330
4-12	10.000	0.5000	40	Butt	0.00	1,907	36.13	75.00	57.37	9297.5	16.68	72.27	34.49	85.00	54.74	8076.7	15.81	69.00	0.163333
5-12	25.000	0.2500	65	Butt	0.00	1,574	25.23	85.00	20.11	1601.6	24.36	100.92	21.25	110.00	16.90	951.6	20.10	85.00	0.159200
6-12	40.000	0.1875	65	Butt	0.00	1,474	21.25	110.00	12.72	720.1	27.69	113.33	15.00	150.00	8.94	250.5	18.76	80.00	0.156250
				Shaft Weight		28,624													

Discrete Appurtenance Properties

Attach Elev (ft)	Description	Qty	No Ice Weight (lb)	No Ice CaAa (sf)	No Ice CaAa Factor	Ice Weight (lb)	Ice CaAa (sf)	Ice CaAa Factor	Distance From Face (ft)	Vert Ecc (ft)
150.00	Andrew ABT-DMDM-ADB	6	1.10	0.050	0.50	6.55	0.138	0.50	0.000	4.000
150.00	Ericsson RRUS 11	6	50.00	2.550	0.67	131.50	3.221	0.67	0.000	4.000
150.00	KMW AM-X-CD-16-65-00T-	3	48.50	8.020	0.79	237.32	9.315	0.79	0.000	4.000
150.00	Powerwave 7770.00A	6	35.00	5.560	0.76	170.17	6.565	0.76	0.000	4.000
150.00	Powerwave TT19-08BP111-	6	16.00	0.640	0.50	43.71	0.894	0.50	0.000	4.000
150.00	Round Low Profile Platform	1	1500.00	21.700	0.90	2,149.22	40.938	0.90	0.000	1.000
140.00	Alcatel-Lucent 1900 MHz	3	60.00	2.710	0.67	154.37	2.988	0.67	0.000	0.000
140.00	Alcatel-Lucent 800 MHz	3	64.00	2.400	0.67	192.68	4.153	0.67	0.000	0.000
140.00	Decibel DB980H90E-M	6	8.50	3.900	0.67	101.64	4.941	0.67	0.000	2.000
140.00	RFS APXVSPP18-C-A20	3	57.00	8.020	0.83	255.05	9.305	0.83	0.000	0.000
140.00	Round Low Profile Platform	1	1200.00	18.000	0.90	1,715.80	33.848	0.90	0.000	2.000
130.00	Antel BXA-171063-8BF	1	10.50	2.940	0.71	92.26	3.794	0.71	0.000	2.000
130.00	Antel BXA-171085-8BF	2	11.00	2.940	0.71	92.34	3.770	0.71	0.000	2.000
130.00	Antel BXA-70063/6CF	3	14.90	7.580	0.66	184.40	8.825	0.66	0.000	2.000
130.00	Antel LPA-80063/6CF	2	27.00	9.590	0.76	309.30	10.895	0.76	0.000	0.000
130.00	Antel LPA-80080/6CF	4	21.00	8.630	0.65	212.68	9.926	0.65	0.000	2.000
130.00	RFS FD9R6004/1C-3L	6	3.10	0.370	0.50	15.97	0.577	0.50	0.000	2.000
130.00	Round Low Profile Platform	1	1500.00	21.700	1.00	2,140.00	40.665	1.00	0.000	0.000
110.00	48" x 12" Panels	9	30.00	5.600	0.67	158.39	6.020	0.67	0.000	0.000
110.00	72" x 12" Panels	3	45.00	8.400	0.67	229.67	9.387	0.67	0.000	0.000
110.00	Round T-Arms	3	250.00	9.700	0.60	453.03	17.709	0.60	0.000	0.000
75.00	PCTEL GPS-TMG-HR-26N	1	10.00	1.000	1.00	23.03	1.651	1.00	0.000	0.000
	Totals	79	6950.90			17,136.60			Number of Loadings :	22

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Exposed Width (in)	Exposed To Wind
5.00	150.00	(12) 1 1/4" Coax	0.00	N
5.00	150.00	(1) 10 mm Cable	0.00	N
5.00	150.00	(2) 19.7 mm Cable	0.00	N
5.00	150.00	(1) 3" Conduit	0.00	N
5.00	140.00	(3) 1 1/4" Hybriflex	0.00	N
5.00	140.00	(6) 1 5/8" Coax	0.00	N
85.00	130.00	(12) 1 5/8" Coax	3.98	Y
85.00	110.00	(12) 1 5/8" Coax	3.98	Y

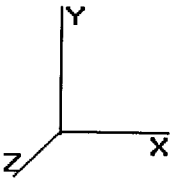


79.00	100.00	(3) #20 Dywidag Bars	5.00	Y
5.00	85.00	(12) 1 5/8" Coax	0.00	N
5.00	85.00	(12) 1 5/8" Coax	0.00	N
5.00	85.00	(2) Seam Flange	12.84	Y
5.00	75.00	(1) 1/2" Coax	0.00	Y

Additional Steel

Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Offset (in)	— Intermediate Connections — Description	Spacing (in)	Len (in)	Connectors	Continuation?
84.11	95.50	3	SOL #20 All Thread	80	6.81	6" Angle Bracket	30.0	3.31	5/8" A36 U-Bolt	No

Pole :	302523	Code: ANSI/TIA-222 Rev G	9/21/2012 10:16:25 AM
Location :	New Milford CT 2, CT	Struct Class : II	Page: 3
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		



Segment Properties (Max Len : 1 ft)

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fy (ksi)	S (in3)	Weight (lb)	Additional Reinforcing Area (in^2)	Additional Reinforcing Ix (in^4)	Additional Reinforcing Weight (lb)
0.00		0.7500	53.900	128.357	46,281.3	16.58	71.87	48.4	1658.	0.0			
1.00		0.7500	53.333	126.987	44,815.9	16.37	71.11	48.4	1623.	434.4			
2.00		0.7500	52.766	125.618	43,381.7	16.17	70.35	48.4	1588.	429.8			
3.00		0.7500	52.199	124.249	41,978.4	15.97	69.60	48.4	1553.	425.1			
4.00		0.7500	51.632	122.879	40,605.8	15.77	68.84	48.4	1519.	420.5			
5.00		0.7500	51.065	121.510	39,263.4	15.56	68.09	48.4	1485.	415.8			
6.00		0.7500	50.498	120.141	37,950.9	15.36	67.33	48.4	1451.	411.1			
7.00		0.7500	49.931	118.771	36,668.0	15.16	66.57	48.4	1418.	406.5			
8.00		0.7500	49.364	117.402	35,414.3	14.96	65.82	48.4	1385.	401.8			
9.00		0.7500	48.797	116.033	34,189.6	14.75	65.06	48.4	1353.	397.2			
10.00		0.7500	48.230	114.663	32,993.4	14.55	64.31	48.4	1321.	392.5			
11.00		0.7500	47.663	113.294	31,825.4	14.35	63.55	48.4	1289.	387.8			
12.00		0.7500	47.096	111.925	30,685.4	14.15	62.79	48.4	1258.	383.2			
13.00		0.7500	46.529	110.556	29,572.9	13.94	62.04	48.4	1227.	378.5			
14.00		0.7500	45.962	109.186	28,487.6	13.74	61.28	48.4	1197.	373.9			
15.00	Top - Section 1	0.7500	45.395	107.817	27,429.2	13.54	60.53	48.4	1167.	369.2			
15.00	Bot - Section 2	0.6875	45.600	99.425	25,598.3	15.09	66.33	50.5	1084.				
16.00		0.6875	45.437	99.065	25,321.4	15.03	66.09	50.5	1076.	337.7			
17.00		0.6875	45.275	98.705	25,046.6	14.97	65.85	50.5	1068.	336.5			
18.00		0.6875	45.112	98.345	24,773.7	14.90	65.62	50.5	1060.	335.3			
19.00		0.6875	44.950	97.986	24,502.8	14.84	65.38	50.5	1053.	334.0			
20.00		0.6875	44.787	97.626	24,234.0	14.78	65.15	50.5	1045.	332.8			
21.00		0.6875	44.625	97.266	23,967.1	14.71	64.91	50.5	1037.	331.6			
22.00		0.6875	44.462	96.906	23,702.1	14.65	64.67	50.5	1029.	330.4			
23.00		0.6875	44.300	96.547	23,439.1	14.59	64.44	50.5	1022.	329.1			
24.00		0.6875	44.137	96.187	23,178.1	14.52	64.20	50.5	1014.	327.9			
25.00		0.6875	43.975	95.827	22,919.0	14.46	63.96	50.5	1006.	326.7			
26.00		0.6875	43.812	95.468	22,661.9	14.40	63.73	50.5	999.2	325.5			
27.00		0.6875	43.650	95.108	22,406.7	14.33	63.49	50.5	991.7	324.2			
28.00		0.6875	43.487	94.748	22,153.4	14.27	63.25	50.5	984.1	323.0			
29.00		0.6875	43.325	94.388	21,902.0	14.21	63.02	50.5	976.6	321.8			
30.00		0.6875	43.162	94.029	21,652.5	14.14	62.78	50.5	969.1	320.6			
31.00		0.6875	43.000	93.669	21,405.0	14.08	62.55	50.5	961.7	319.3			
32.00		0.6875	42.837	93.309	21,159.3	14.02	62.31	50.5	954.2	318.1			
33.00		0.6875	42.675	92.949	20,915.5	13.95	62.07	50.5	946.8	316.9			
34.00		0.6875	42.512	92.590	20,673.6	13.89	61.84	50.5	939.5	315.7			
35.00		0.6875	42.350	92.230	20,433.6	13.83	61.60	50.5	932.1	314.4			
36.00		0.6875	42.187	91.870	20,195.4	13.76	61.36	50.5	924.8	313.2			
37.00		0.6875	42.025	91.510	19,959.1	13.70	61.13	50.5	917.5	312.0			
38.00		0.6875	41.862	91.151	19,724.6	13.64	60.89	50.5	910.2	310.8			
39.00		0.6875	41.700	90.791	19,492.0	13.57	60.65	50.5	903.0	309.6			
40.00		0.6875	41.537	90.431	19,261.2	13.51	60.42	50.5	895.8	308.3			
41.00		0.6875	41.375	90.072	19,032.3	13.45	60.18	50.5	888.6	307.1			
42.00		0.6875	41.212	89.712	18,805.2	13.38	59.95	50.5	881.5	305.9			
43.00		0.6875	41.050	89.352	18,579.9	13.32	59.71	50.5	874.4	304.7			
44.00		0.6875	40.887	88.992	18,356.3	13.26	59.47	50.5	867.3	303.4			
45.00		0.6875	40.725	88.633	18,134.6	13.19	59.24	50.5	860.2	302.2			
46.00		0.6875	40.562	88.273	17,914.7	13.13	59.00	50.5	853.2	301.0			
47.00		0.6875	40.400	87.913	17,696.6	13.07	58.76	50.5	846.2	299.8			
48.00		0.6875	40.237	87.553	17,480.2	13.00	58.53	50.5	839.3	298.5			
49.00		0.6875	40.075	87.194	17,265.7	12.94	58.29	50.5	832.3	297.3			
50.00		0.6875	39.912	86.834	17,052.8	12.88	58.05	50.5	825.4	296.1			
51.00		0.6875	39.750	86.474	16,841.8	12.81	57.82	50.5	818.5	294.9			
52.00		0.6875	39.587	86.114	16,632.5	12.75	57.58	50.5	811.7	293.6			
53.00		0.6875	39.425	85.755	16,424.9	12.69	57.35	50.5	804.8	292.4			
54.00		0.6875	39.262	85.395	16,219.1	12.62	57.11	50.5	798.0	291.2			
55.00	Top - Section 2	0.6875	39.100	85.035	16,014.9	12.56	56.87	50.5	791.3	290.0			
55.00	Bot - Section 3	0.6250	39.400	78.034	14,975.0	14.21	63.04	45.9	734.3				

Pole :	302523					Code: ANSI/TIA-222 Rev G								
Location :	New Milford CT 2, CT					Struct Class : II								
Height :	150.0 (ft)					Exposure Category : B								
Base Dia :	53.90 (in)					Topographic Category : 1								
Top Dia :	15.00 (in)					Base Elev : 0.000 (ft)								
Shape :	12 Sides													
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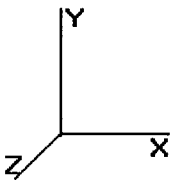
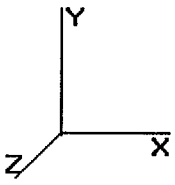


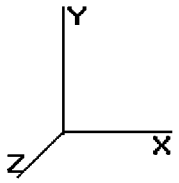
56.00		0.6250	39.236	77.705	14,786.6	14.14	62.78	45.9	728.0	265.0				
57.00		0.6250	39.073	77.377	14,599.7	14.07	62.52	45.9	721.8	263.9				
58.00		0.6250	38.910	77.048	14,414.4	14.00	62.26	45.9	715.7	262.7				
59.00		0.6250	38.746	76.719	14,230.7	13.93	61.99	45.9	709.5	261.6				
60.00		0.6250	38.583	76.391	14,048.6	13.86	61.73	45.9	703.4	260.5				
61.00		0.6250	38.420	76.062	13,868.0	13.79	61.47	45.9	697.3	259.4				
62.00		0.6250	38.256	75.733	13,689.0	13.72	61.21	45.9	691.3	258.3				
63.00		0.6250	38.093	75.404	13,511.6	13.65	60.95	45.9	685.2	257.1				
64.00		0.6250	37.930	75.076	13,335.6	13.58	60.69	45.9	679.2	256.0				
65.00		0.6250	37.766	74.747	13,161.2	13.51	60.43	45.9	673.2	254.9				
66.00		0.6250	37.603	74.418	12,988.4	13.44	60.16	45.9	667.3	253.8				
67.00		0.6250	37.440	74.090	12,817.0	13.37	59.90	45.9	661.3	252.7				
68.00		0.6250	37.276	73.761	12,647.2	13.30	59.64	45.9	655.4	251.6				
69.00		0.6250	37.113	73.432	12,478.9	13.23	59.38	45.9	649.6	250.4				
70.00		0.6250	36.950	73.104	12,312.0	13.16	59.12	45.9	643.7	249.3				
71.00		0.6250	36.786	72.775	12,146.7	13.09	58.86	45.9	637.9	248.2				
72.00		0.6250	36.623	72.446	11,982.9	13.02	58.60	45.9	632.1	247.1				
73.00		0.6250	36.460	72.117	11,820.5	12.95	58.34	45.9	626.3	246.0				
74.00		0.6250	36.296	71.789	11,659.6	12.88	58.07	45.9	620.6	244.8				
75.00	Top - Section 3	0.6250	36.133	71.460	11,500.2	12.81	57.81	45.9	614.9	243.7				
75.00	Bot - Section 4	0.5000	36.133	57.369	9,297.5	16.68	72.27	50.9	497.1					
76.00		0.5000	35.970	57.106	9,170.2	16.60	71.94	50.9	492.5	194.8				
77.00		0.5000	35.806	56.843	9,044.1	16.51	71.61	50.9	488.0	193.9				
78.00		0.5000	35.643	56.580	8,919.2	16.42	71.29	50.9	483.4	193.0				
79.00		0.5000	35.480	56.317	8,795.4	16.33	70.96	50.9	478.9	192.1				
80.00		0.5000	35.316	56.054	8,672.8	16.25	70.63	50.9	474.4	191.2				
81.00		0.5000	35.153	55.791	8,551.3	16.16	70.31	50.9	469.9	190.3				
82.00		0.5000	34.990	55.528	8,430.9	16.07	69.98	50.9	465.5	189.4				
83.00		0.5000	34.826	55.265	8,311.7	15.98	69.65	50.9	461.1	188.5				
84.00		0.5000	34.663	55.002	8,193.6	15.90	69.33	50.9	456.7	187.6				
84.11	Reinf Bottom	0.5000	34.645	54.973	8,180.7	15.89	69.29	50.9	456.2	20.6				
85.00	Top - Section 4	0.5000	34.500	54.739	8,076.7	15.81	69.00	50.9	452.3	166.1	14.73	4,723	44.6	
85.00	Bot - Section 5	0.2500	25.230	20.109	1,601.6	24.36	100.92	78.1	122.6		14.73	4,723		
86.00		0.2500	25.071	19.981	1,571.2	24.19	100.28	78.3	121.1	68.2	14.73	3,129	50.1	
87.00		0.2500	24.912	19.853	1,541.1	24.02	99.65	78.5	119.5	67.8	14.73	3,105	50.1	
88.00		0.2500	24.752	19.724	1,511.5	23.85	99.01	78.7	118.0	67.3	14.73	3,081	50.1	
89.00		0.2500	24.593	19.596	1,482.2	23.68	98.37	78.9	116.4	66.9	14.73	3,057	50.1	
90.00		0.2500	24.434	19.468	1,453.3	23.51	97.74	79.1	114.9	66.5	14.73	3,033	50.1	
91.00		0.2500	24.275	19.340	1,424.8	23.34	97.10	79.3	113.4	66.0	14.73	3,010	50.1	
92.00		0.2500	24.116	19.212	1,396.7	23.17	96.46	79.4	111.9	65.6	14.73	2,986	50.1	
93.00		0.2500	23.956	19.084	1,368.9	23.00	95.83	79.6	110.4	65.2	14.73	2,963	50.1	
94.00		0.2500	23.797	18.955	1,341.5	22.83	95.19	79.8	108.9	64.7	14.73	2,939	50.1	
95.00		0.2500	23.638	18.827	1,314.5	22.66	94.55	80.0	107.4	64.3	14.73	2,916	50.1	
95.50	Reinf. Top	0.2500	23.558	18.763	1,301.1	22.57	94.23	80.1	106.7	32.0	14.73	2,904	25.0	
96.00		0.2500	23.479	18.699	1,287.8	22.48	93.91	80.2	106.0	31.9				
97.00		0.2500	23.319	18.571	1,261.5	22.31	93.28	80.4	104.5	63.4				
98.00		0.2500	23.160	18.443	1,235.6	22.14	92.64	80.6	103.1	63.0				
99.00		0.2500	23.001	18.315	1,210.0	21.97	92.00	80.7	101.6	62.5				
100.0		0.2500	22.842	18.186	1,184.8	21.80	91.37	80.9	100.2	62.1				
101.0		0.2500	22.683	18.058	1,159.9	21.63	90.73	81.1	98.8	61.7				
102.0		0.2500	22.524	17.930	1,135.4	21.46	90.09	81.3	97.4	61.2				
103.0		0.2500	22.364	17.802	1,111.2	21.29	89.46	81.5	96.0	60.8				
104.0		0.2500	22.205	17.674	1,087.4	21.12	88.82	81.7	94.6	60.4				
105.0		0.2500	22.046	17.546	1,063.9	20.95	88.18	81.9	93.2	59.9				
106.0		0.2500	21.887	17.418	1,040.8	20.78	87.55	81.9	91.9	59.5				
107.0		0.2500	21.728	17.289	1,018.0	20.61	86.91	81.9	90.5	59.0				
108.0		0.2500	21.568	17.161	995.5	20.44	86.27	81.9	89.2	58.6				
109.0		0.2500	21.409	17.033	973.4	20.27	85.64	81.9	87.8	58.2				
110.0	Top - Section 5	0.2500	21.250	16.905	951.6	20.10	85.00	81.9	86.5	57.7				
110.0	Bot - Section 6	0.1875	21.250	12.716	720.1	27.69	113.33	74.5	65.5					
111.0		0.1875	21.094	12.622	704.2	27.46	112.50	74.8	64.5	43.1				
112.0		0.1875	20.938	12.528	688.5	27.24	111.67	75.0	63.5	42.8				
113.0		0.1875	20.781	12.433	673.1	27.02	110.83	75.2	62.6	42.5				
114.0		0.1875	20.625	12.339	657.8	26.79	110.00	75.5	61.6	42.1				

Pole :	302523	Code: ANSI/TIA-222 Rev G	9/21/2012 10:16:25 AM
Location :	New Milford CT 2, CT	Struct Class : II	Page: 5
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		



115.0	0.1875	20.469	12.245	642.9	26.57	109.17	75.7	60.7	41.8	
116.0	0.1875	20.313	12.150	628.1	26.35	108.33	76.0	59.7	41.5	
117.0	0.1875	20.156	12.056	613.6	26.13	107.50	76.2	58.8	41.2	
118.0	0.1875	20.000	11.962	599.3	25.90	106.67	76.5	57.9	40.9	
119.0	0.1875	19.844	11.867	585.3	25.68	105.83	76.7	57.0	40.5	
120.0	0.1875	19.688	11.773	571.4	25.46	105.00	77.0	56.1	40.2	
121.0	0.1875	19.531	11.679	557.8	25.23	104.17	77.2	55.2	39.9	
122.0	0.1875	19.375	11.584	544.4	25.01	103.33	77.4	54.3	39.6	
123.0	0.1875	19.219	11.490	531.2	24.79	102.50	77.7	53.4	39.3	
124.0	0.1875	19.063	11.396	518.2	24.56	101.67	77.9	52.5	38.9	
125.0	0.1875	18.906	11.301	505.4	24.34	100.83	78.2	51.6	38.6	
126.0	0.1875	18.750	11.207	492.9	24.12	100.00	78.4	50.8	38.3	
127.0	0.1875	18.594	11.113	480.6	23.89	99.17	78.7	49.9	38.0	
128.0	0.1875	18.438	11.018	468.4	23.67	98.33	78.9	49.1	37.7	
129.0	0.1875	18.281	10.924	456.5	23.45	97.50	79.1	48.2	37.3	
130.0	0.1875	18.125	10.830	444.8	23.22	96.67	79.4	47.4	37.0	
131.0	0.1875	17.969	10.735	433.2	23.00	95.83	79.6	46.6	36.7	
132.0	0.1875	17.813	10.641	421.9	22.78	95.00	79.9	45.8	36.4	
133.0	0.1875	17.656	10.547	410.8	22.55	94.17	80.1	44.9	36.0	
134.0	0.1875	17.500	10.452	399.9	22.33	93.33	80.4	44.1	35.7	
135.0	0.1875	17.344	10.358	389.1	22.11	92.50	80.6	43.3	35.4	
136.0	0.1875	17.188	10.264	378.6	21.88	91.67	80.8	42.6	35.1	
137.0	0.1875	17.031	10.169	368.3	21.66	90.83	81.1	41.8	34.8	
138.0	0.1875	16.875	10.075	358.1	21.44	90.00	81.3	41.0	34.4	
139.0	0.1875	16.719	9.981	348.1	21.21	89.17	81.6	40.2	34.1	
140.0	0.1875	16.563	9.886	338.4	20.99	88.33	81.8	39.5	33.8	
141.0	0.1875	16.406	9.792	328.8	20.77	87.50	81.9	38.7	33.5	
142.0	0.1875	16.250	9.698	319.4	20.54	86.67	81.9	38.0	33.2	
143.0	0.1875	16.094	9.603	310.1	20.32	85.83	81.9	37.2	32.8	
144.0	0.1875	15.938	9.509	301.1	20.10	85.00	81.9	36.5	32.5	
145.0	0.1875	15.781	9.415	292.2	19.87	84.17	81.9	35.8	32.2	
146.0	0.1875	15.625	9.320	283.5	19.65	83.33	81.9	35.1	31.9	
147.0	0.1875	15.469	9.226	275.0	19.43	82.50	81.9	34.3	31.6	
148.0	0.1875	15.313	9.132	266.6	19.20	81.67	81.9	33.6	31.2	
149.0	0.1875	15.156	9.037	258.5	18.98	80.83	81.9	32.9	30.9	
150.0	0.1875	15.000	8.943	250.5	18.76	80.00	81.9	32.3	30.6	
									28,623.6	570.6

Pole :	302523	Code: ANSI/TIA-222 Rev G	9/21/2012 10:16:25 AM
Location :	New Milford CT 2, CT	Struct Class : II	Page: 6
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		



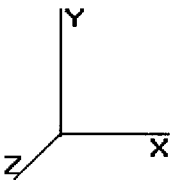
Load Case: 1.2D + 1.6W — 95.00 mph with No Ice — 29 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60
Wind Importance 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)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	15.364	16.90	369.60	1.000		0.000	0.00	0.000	0.00	0.0	0.0	0.0
1.00		1.00	0.70	15.364	16.90	365.71	1.000		0.000	1.00	4.626	4.63	125.1	0.0	521.3
2.00		1.00	0.70	15.364	16.90	361.82	1.000		0.000	1.00	4.577	4.58	123.8	0.0	515.7
3.00		1.00	0.70	15.364	16.90	357.93	1.000		0.000	1.00	4.528	4.53	122.4	0.0	510.1
4.00		1.00	0.70	15.364	16.90	354.05	1.000		0.000	1.00	4.479	4.48	121.1	0.0	504.6
5.00		1.00	0.70	15.364	16.90	350.16	1.000		0.000	1.00	4.430	4.43	119.8	0.0	499.0
6.00		1.00	0.70	15.364	16.90	346.27	1.200	*	0.000	1.00	4.381	5.26	142.2	0.0	493.4
7.00		1.00	0.70	15.364	16.90	342.38	1.200	*	0.000	1.00	4.332	5.20	140.6	0.0	487.8
8.00		1.00	0.70	15.364	16.90	338.49	1.200	*	0.000	1.00	4.283	5.14	139.0	0.0	482.2
9.00		1.00	0.70	15.364	16.90	334.60	1.200	*	0.000	1.00	4.234	5.08	137.4	0.0	476.6
10.00		1.00	0.70	15.364	16.90	330.72	1.200	*	0.000	1.00	4.185	5.02	135.8	0.0	471.0
11.00		1.00	0.70	15.364	16.90	326.83	1.200	*	0.000	1.00	4.136	4.96	134.2	0.0	465.4
12.00		1.00	0.70	15.364	16.90	322.94	1.200	*	0.000	1.00	4.088	4.91	132.6	0.0	459.8
13.00		1.00	0.70	15.364	16.90	319.05	1.200	*	0.000	1.00	4.039	4.85	131.0	0.0	454.2
14.00		1.00	0.70	15.364	16.90	315.16	1.200	*	0.000	1.00	3.990	4.79	129.5	0.0	448.6
15.00	Top - Section 1	1.00	0.70	15.364	16.90	311.28	1.200	*	0.000	1.00	3.941	4.73	127.9	0.0	443.0
16.00		1.00	0.70	15.364	16.90	311.57	1.200	*	0.000	1.00	3.927	4.71	127.4	0.0	405.2
17.00		1.00	0.70	15.364	16.90	310.45	1.200	*	0.000	1.00	3.913	4.70	127.0	0.0	403.8
18.00		1.00	0.70	15.364	16.90	309.34	1.200	*	0.000	1.00	3.899	4.68	126.5	0.0	402.3
19.00		1.00	0.70	15.364	16.90	308.23	1.200	*	0.000	1.00	3.885	4.66	126.1	0.0	400.8
20.00		1.00	0.70	15.364	16.90	307.11	1.200	*	0.000	1.00	3.871	4.65	125.6	0.0	399.4
21.00		1.00	0.70	15.364	16.90	306.00	1.200	*	0.000	1.00	3.857	4.63	125.2	0.0	397.9
22.00		1.00	0.70	15.364	16.90	304.88	1.200	*	0.000	1.00	3.843	4.61	124.7	0.0	396.4
23.00		1.00	0.70	15.364	16.90	303.77	1.200	*	0.000	1.00	3.829	4.59	124.2	0.0	395.0
24.00		1.00	0.70	15.364	16.90	302.65	1.200	*	0.000	1.00	3.815	4.58	123.8	0.0	393.5
25.00		1.00	0.70	15.364	16.90	301.54	1.200	*	0.000	1.00	3.801	4.56	123.3	0.0	392.0
26.00		1.00	0.70	15.364	16.90	300.43	1.200	*	0.000	1.00	3.787	4.54	122.9	0.0	390.6
27.00		1.00	0.70	15.364	16.90	299.31	1.200	*	0.000	1.00	3.773	4.53	122.4	0.0	389.1
28.00		1.00	0.70	15.364	16.90	298.20	1.200	*	0.000	1.00	3.759	4.51	122.0	0.0	387.6
29.00		1.00	0.70	15.364	16.90	297.08	1.200	*	0.000	1.00	3.745	4.49	121.5	0.0	386.2
30.00		1.00	0.70	15.377	16.91	296.09	1.200	*	0.000	1.00	3.731	4.48	121.2	0.0	384.7
31.00		1.00	0.70	15.522	17.07	296.36	1.200	*	0.000	1.00	3.717	4.46	121.8	0.0	383.2
32.00		1.00	0.71	15.663	17.23	296.59	1.200	*	0.000	1.00	3.703	4.44	122.5	0.0	381.7
33.00		1.00	0.72	15.802	17.38	296.76	1.200	*	0.000	1.00	3.689	4.43	123.1	0.0	380.3
34.00		1.00	0.72	15.937	17.53	296.90	1.200	*	0.000	1.00	3.675	4.41	123.7	0.0	378.8
35.00		1.00	0.73	16.070	17.67	296.99	1.200	*	0.000	1.00	3.661	4.39	124.2	0.0	377.3
36.00		1.00	0.73	16.199	17.81	297.04	1.200	*	0.000	1.00	3.647	4.38	124.8	0.0	375.9
37.00		1.00	0.74	16.327	17.95	297.06	1.200	*	0.000	1.00	3.633	4.36	125.3	0.0	374.4
38.00		1.00	0.75	16.452	18.09	297.04	1.200	*	0.000	1.00	3.619	4.34	125.7	0.0	372.9
39.00		1.00	0.75	16.574	18.23	296.99	1.200	*	0.000	1.00	3.605	4.33	126.2	0.0	371.5
40.00		1.00	0.76	16.694	18.36	296.90	1.200	*	0.000	1.00	3.591	4.31	126.6	0.0	370.0
41.00		1.00	0.76	16.813	18.49	296.78	1.200	*	0.000	1.00	3.577	4.29	127.0	0.0	368.5
42.00		1.00	0.77	16.929	18.62	296.64	1.200	*	0.000	1.00	3.563	4.28	127.4	0.0	367.1
43.00		1.00	0.77	17.043	18.74	296.46	1.200	*	0.000	1.00	3.548	4.26	127.7	0.0	365.6
44.00		1.00	0.78	17.155	18.87	296.26	1.200	*	0.000	1.00	3.534	4.24	128.1	0.0	364.1
45.00		1.00	0.78	17.266	18.99	296.03	1.200	*	0.000	1.00	3.520	4.22	128.4	0.0	362.7
46.00		1.00	0.79	17.375	19.11	295.78	1.200	*	0.000	1.00	3.506	4.21	128.7	0.0	361.2
47.00		1.00	0.79	17.482	19.23	295.50	1.200	*	0.000	1.00	3.492	4.19	128.9	0.0	359.7
48.00		1.00	0.80	17.587	19.34	295.20	1.200	*	0.000	1.00	3.478	4.17	129.2	0.0	358.2
49.00		1.00	0.80	17.691	19.46	294.87	1.200	*	0.000	1.00	3.464	4.16	129.4	0.0	356.8
50.00		1.00	0.81	17.793	19.57	294.53	1.200	*	0.000	1.00	3.450	4.14	129.7	0.0	355.3

Pole :	302523	Code: ANSI/TIA-222 Rev G	9/21/2012 10:16:25 AM
Location :	New Milford CT 2, CT	Struct Class : II	Page: 7
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

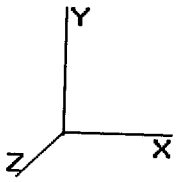


Load Case: 1.2D + 1.6W — 95.00 mph with No Ice — 29 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60
Wind Importance Factor : 1.00

51.00		1.00	0.81	17.894	19.68	294.16	1.200	* 0.000	1.00	3.436	4.12	129.9	0.0	353.8
52.00		1.00	0.82	17.994	19.79	293.77	1.200	* 0.000	1.00	3.422	4.11	130.1	0.0	352.4
53.00		1.00	0.82	18.092	19.90	293.36	1.200	* 0.000	1.00	3.408	4.09	130.2	0.0	350.9
54.00		1.00	0.82	18.189	20.00	292.93	1.200	* 0.000	1.00	3.394	4.07	130.4	0.0	349.4
55.00	Top - Section 2	1.00	0.83	18.285	20.11	292.49	1.200	* 0.000	1.00	3.380	4.06	130.5	0.0	348.0
56.00		1.00	0.83	18.379	20.21	294.26	1.200	* 0.000	1.00	3.392	4.07	131.7	0.0	318.0
57.00		1.00	0.84	18.472	20.31	293.78	1.200	* 0.000	1.00	3.378	4.05	131.8	0.0	316.6
58.00		1.00	0.84	18.564	20.42	293.28	1.200	* 0.000	1.00	3.364	4.04	131.9	0.0	315.3
59.00		1.00	0.85	18.655	20.52	292.76	1.200	* 0.000	1.00	3.350	4.02	132.0	0.0	313.9
60.00		1.00	0.85	18.745	20.61	292.23	1.200	* 0.000	1.00	3.336	4.00	132.1	0.0	312.6
61.00		1.00	0.85	18.834	20.71	291.68	1.200	* 0.000	1.00	3.322	3.99	132.1	0.0	311.3
62.00		1.00	0.86	18.921	20.81	291.12	1.200	* 0.000	1.00	3.308	3.97	132.2	0.0	309.9
63.00		1.00	0.86	19.008	20.90	290.54	1.200	* 0.000	1.00	3.293	3.95	132.2	0.0	308.6
64.00		1.00	0.87	19.094	21.00	289.94	1.200	* 0.000	1.00	3.279	3.94	132.2	0.0	307.2
65.00		1.00	0.87	19.179	21.09	289.33	1.200	* 0.000	1.00	3.265	3.92	132.3	0.0	305.9
66.00		1.00	0.87	19.262	21.18	288.71	1.200	* 0.000	1.00	3.251	3.90	132.3	0.0	304.5
67.00		1.00	0.88	19.345	21.28	288.08	1.200	* 0.000	1.00	3.237	3.88	132.3	0.0	303.2
68.00		1.00	0.88	19.427	21.37	287.43	1.200	* 0.000	1.00	3.223	3.87	132.2	0.0	301.9
69.00		1.00	0.88	19.509	21.45	286.77	1.200	* 0.000	1.00	3.209	3.85	132.2	0.0	300.5
70.00		1.00	0.89	19.589	21.54	286.09	1.200	* 0.000	1.00	3.195	3.83	132.2	0.0	299.2
71.00		1.00	0.89	19.669	21.63	285.40	1.200	* 0.000	1.00	3.181	3.82	132.1	0.0	297.8
72.00		1.00	0.90	19.747	21.72	284.70	1.200	* 0.000	1.00	3.167	3.80	132.1	0.0	296.5
73.00		1.00	0.90	19.825	21.80	283.99	1.200	* 0.000	1.00	3.153	3.78	132.0	0.0	295.2
74.00		1.00	0.90	19.902	21.89	283.27	1.200	* 0.000	1.00	3.138	3.77	131.9	0.0	293.8
75.00	Top - Section 3	1.00	0.91	19.979	21.97	282.54	1.200	* 0.000	1.00	3.124	3.75	131.8	0.0	292.5
76.00		1.00	0.91	20.055	22.06	281.79	1.200	* 0.000	1.00	3.110	3.73	131.7	0.0	233.7
77.00		1.00	0.91	20.130	22.14	281.04	1.200	* 0.000	1.00	3.096	3.72	131.6	0.0	232.6
78.00		1.00	0.92	20.204	22.22	280.27	1.200	* 0.000	1.00	3.082	3.70	131.5	0.0	231.6
79.00		1.00	0.92	20.278	22.30	279.50	1.200	* 0.000	1.00	3.068	3.68	131.4	0.0	230.5
80.00		1.00	0.92	20.351	22.38	278.71	1.200	* 0.000	1.00	3.054	3.66	131.3	0.0	229.4
81.00		1.00	0.93	20.423	22.46	277.91	1.200	* 0.000	1.00	3.040	3.65	131.1	0.0	228.4
82.00		1.00	0.93	20.495	22.54	277.11	1.200	* 0.000	1.00	3.026	3.63	131.0	0.0	227.3
83.00		1.00	0.93	20.566	22.62	276.29	1.200	* 0.000	1.00	3.012	3.61	130.8	0.0	226.2
84.00		1.00	0.94	20.636	22.70	275.47	1.200	* 0.000	1.00	2.998	3.60	130.6	0.0	225.1
84.11	Reinf Bottom	1.00	0.94	20.644	22.70	275.38	1.200	* 0.000	0.11	0.329	0.39	14.3	0.0	24.7
85.00	Top - Section 4	1.00	0.94	20.706	22.77	274.63	1.200	* 0.000	0.89	2.655	3.19	116.1	0.0	244.0
86.00		1.00	0.94	20.776	22.85	199.91	1.200	* 0.000	1.00	2.170	2.60	95.2	0.0	131.9
87.00		1.00	0.95	20.844	22.92	198.97	1.200	* 0.000	1.00	2.156	2.59	94.9	0.0	131.4
88.00		1.00	0.95	20.913	23.00	198.02	1.200	* 0.000	1.00	2.142	2.57	94.6	0.0	130.9
89.00		1.00	0.95	20.980	23.07	197.06	1.200	* 0.000	1.00	2.129	2.55	94.3	0.0	130.4
90.00		1.00	0.95	21.047	23.15	196.10	1.200	* 0.000	1.00	2.115	2.54	94.0	0.0	129.9
91.00		1.00	0.96	21.114	23.22	195.13	1.200	* 0.000	1.00	2.101	2.52	93.7	0.0	129.3
92.00		1.00	0.96	21.180	23.29	194.15	1.200	* 0.000	1.00	2.087	2.50	93.4	0.0	128.8
93.00		1.00	0.96	21.245	23.37	193.17	1.200	* 0.000	1.00	2.074	2.49	93.0	0.0	128.3
94.00		1.00	0.97	21.310	23.44	192.18	1.200	* 0.000	1.00	2.060	2.47	92.7	0.0	127.8
95.00		1.00	0.97	21.375	23.51	191.18	1.200	* 0.000	1.00	2.046	2.46	92.4	0.0	127.2
95.50	Reinf. Top	1.00	0.97	21.407	23.54	190.68	1.200	* 0.000	0.50	1.018	1.22	46.0	0.0	63.4
96.00		1.00	0.97	21.439	23.58	190.18	1.200	* 0.000	0.50	1.015	1.22	45.9	0.0	38.2
97.00		1.00	0.98	21.503	23.65	189.17	1.200	* 0.000	1.00	2.019	2.42	91.7	0.0	76.1
98.00		1.00	0.98	21.566	23.72	188.15	1.200	* 0.000	1.00	2.005	2.41	91.3	0.0	75.6
99.00		1.00	0.98	21.628	23.79	187.13	1.200	* 0.000	1.00	1.991	2.39	91.0	0.0	75.0
100.0		1.00	0.98	21.690	23.86	186.10	1.200	* 0.000	1.00	1.978	2.37	90.6	0.0	74.5
101.0		1.00	0.99	21.752	23.92	185.07	1.200	* 0.000	1.00	1.964	2.36	90.2	0.0	74.0
102.0		1.00	0.99	21.814	23.99	184.03	1.200	* 0.000	1.00	1.950	2.34	89.8	0.0	73.5
103.0		1.00	0.99	21.874	24.06	182.98	1.200	* 0.000	1.00	1.936	2.32	89.5	0.0	73.0
104.0		1.00	0.99	21.935	24.12	181.93	1.200	* 0.000	1.00	1.923	2.31	89.1	0.0	72.4
105.0		1.00	1.00	21.995	24.19	180.87	1.200	* 0.000	1.00	1.909	2.29	88.7	0.0	71.9

Pole : 302523			
Location : New Milford CT 2, CT	Code: ANSI/TIA-222 Rev G		9/21/2012 10:16:25 AM
Height : 150.0 (ft)	Struct Class : II		Page: 8
Base Dia : 53.90 (in)	Exposure Category : B		
Top Dia : 15.00 (in)	Topographic Category : 1		
Shape : 12 Sides	Base Elev : 0.000 (ft)		
Taper : 0.156700 (in/ft)			



Load Case: 1.2D + 1.6W — 95.00 mph with No Ice

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60

29 Iterations

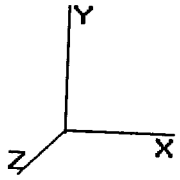
Wind Importance Factor : 1.00

106.0		1.00	1.00	22.055	24.26	179.81	1.200 *	0.000	1.00	1.895	2.27	88.3	0.0	71.4
107.0		1.00	1.00	22.114	24.32	178.74	1.200 *	0.000	1.00	1.881	2.26	87.9	0.0	70.9
108.0		1.00	1.01	22.173	24.39	177.67	1.200 *	0.000	1.00	1.868	2.24	87.5	0.0	70.3
109.0		1.00	1.01	22.231	24.45	176.59	1.200 *	0.000	1.00	1.854	2.22	87.0	0.0	69.8
110.0	Top - Section 5	1.00	1.01	22.289	24.51	175.50	1.200 *	0.000	1.00	1.840	2.21	86.6	0.0	69.3
111.0		1.00	1.01	22.347	24.58	174.44	1.245 *	0.000	1.00	1.827	2.27	89.4	0.0	51.7
112.0		1.00	1.02	22.404	24.64	173.37	1.249 *	0.000	1.00	1.813	2.26	89.3	0.0	51.3
113.0		1.00	1.02	22.461	24.70	172.29	1.253 *	0.000	1.00	1.800	2.25	89.1	0.0	51.0
114.0		1.00	1.02	22.518	24.77	171.21	1.257 *	0.000	1.00	1.786	2.25	89.0	0.0	50.6
115.0		1.00	1.02	22.574	24.83	170.13	1.261 *	0.000	1.00	1.773	2.24	88.8	0.0	50.2
116.0		1.00	1.03	22.630	24.89	169.04	1.266 *	0.000	1.00	1.759	2.23	88.7	0.0	49.8
117.0		1.00	1.03	22.686	24.95	167.94	1.270 *	0.000	1.00	1.746	2.22	88.5	0.0	49.4
118.0		1.00	1.03	22.741	25.01	166.85	1.274 *	0.000	1.00	1.732	2.21	88.4	0.0	49.0
119.0		1.00	1.03	22.796	25.07	165.74	1.279 *	0.000	1.00	1.719	2.20	88.2	0.0	48.7
120.0		1.00	1.04	22.850	25.13	164.63	1.283 *	0.000	1.00	1.705	2.19	88.0	0.0	48.3
121.0		1.00	1.04	22.905	25.19	163.52	1.288 *	0.000	1.00	1.692	2.18	87.8	0.0	47.9
122.0		1.00	1.04	22.959	25.25	162.40	1.293 *	0.000	1.00	1.678	2.17	87.7	0.0	47.5
123.0		1.00	1.04	23.012	25.31	161.28	1.298 *	0.000	1.00	1.665	2.16	87.5	0.0	47.1
124.0		1.00	1.05	23.065	25.37	160.16	1.200 *	0.000	1.00	1.651	1.98	80.4	0.0	46.7
125.0		1.00	1.05	23.118	25.43	159.02	1.200 *	0.000	1.00	1.638	1.97	80.0	0.0	46.3
126.0		1.00	1.05	23.171	25.48	157.89	1.200 *	0.000	1.00	1.624	1.95	79.5	0.0	46.0
127.0		1.00	1.05	23.223	25.54	156.75	1.200 *	0.000	1.00	1.611	1.93	79.0	0.0	45.6
128.0		1.00	1.06	23.276	25.60	155.61	1.200 *	0.000	1.00	1.597	1.92	78.5	0.0	45.2
129.0		1.00	1.06	23.327	25.66	154.46	1.200 *	0.000	1.00	1.584	1.90	78.0	0.0	44.8
130.0	Appertunance(s)	1.00	1.06	23.379	25.71	153.31	1.200 *	0.000	1.00	1.570	1.88	77.5	0.0	44.4
131.0		1.00	1.06	23.430	25.77	152.15	1.000	0.000	1.00	1.557	1.56	64.2	0.0	44.0
132.0		1.00	1.07	23.481	25.82	151.00	1.000	0.000	1.00	1.543	1.54	63.8	0.0	43.6
133.0		1.00	1.07	23.532	25.88	149.83	1.000	0.000	1.00	1.530	1.53	63.4	0.0	43.3
134.0		1.00	1.07	23.582	25.94	148.67	1.000	0.000	1.00	1.517	1.52	62.9	0.0	42.9
135.0		1.00	1.07	23.632	25.99	147.49	1.000	0.000	1.00	1.503	1.50	62.5	0.0	42.5
136.0		1.00	1.07	23.682	26.05	146.32	1.000	0.000	1.00	1.490	1.49	62.1	0.0	42.1
137.0		1.00	1.08	23.732	26.10	145.14	1.000	0.000	1.00	1.476	1.48	61.7	0.0	41.7
138.0		1.00	1.08	23.781	26.15	143.96	1.000	0.000	1.00	1.463	1.46	61.2	0.0	41.3
139.0		1.00	1.08	23.830	26.21	142.77	1.000	0.000	1.00	1.449	1.45	60.8	0.0	40.9
140.0	Appertunance(s)	1.00	1.08	23.879	26.26	141.58	1.000	0.000	1.00	1.436	1.44	60.3	0.0	40.6
141.0		1.00	1.09	23.928	26.32	140.39	1.000	0.000	1.00	1.422	1.42	59.9	0.0	40.2
142.0		1.00	1.09	23.976	26.37	139.19	1.000	0.000	1.00	1.409	1.41	59.4	0.0	39.8
143.0		1.00	1.09	24.024	26.42	137.99	1.000	0.000	1.00	1.395	1.40	59.0	0.0	39.4
144.0		1.00	1.09	24.072	26.47	136.79	1.000	0.000	1.00	1.382	1.38	58.5	0.0	39.0
145.0		1.00	1.09	24.120	26.53	135.58	1.000	0.000	1.00	1.368	1.37	58.1	0.0	38.6
146.0		1.00	1.10	24.167	26.58	134.37	1.000	0.000	1.00	1.355	1.35	57.6	0.0	38.3
147.0		1.00	1.10	24.214	26.63	133.16	1.000	0.000	1.00	1.341	1.34	57.2	0.0	37.9
148.0		1.00	1.10	24.261	26.68	131.94	1.000	0.000	1.00	1.328	1.33	56.7	0.0	37.5
149.0		1.00	1.10	24.308	26.73	130.72	1.000	0.000	1.00	1.314	1.31	56.2	0.0	37.1
150.0	Appertunance(s)	1.00	1.11	24.355	26.79	129.50	1.000	0.000	1.00	1.301	1.30	55.8	0.0	36.7
							Totals:		150.00			16,142.6	0.0	34,919.0

* = Cf Adjusted By Linear Load Ra Effect

Pole : 302523
Location : New Milford CT 2, CT
Height : 150.0 (ft)
Base Dia : 53.90 (in)
Top Dia : 15.00 (in)
Shape : 12 Sides
Taper : 0.156700 (in/ft)

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



Load Case: 1.2D + 1.6W — 95.00 mph with No Ice

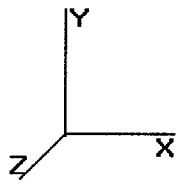
Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60

29 Iterations
Wind Importance Factor : 1.00

Discrete Appurtenance Segment Forces (Factored)

Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa Factor	Ka	Total CaAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
75.00	PCTEL GPS-TMG-HR-	1	19.979	21.977	1.00	1.00	1.00	0.000	0.000	35.16	0.00	0.00	12.00
110.0	48" x 12" Panels	9	22.289	24.518	0.54	0.80	27.01	0.000	0.000	1,059.75	0.00	0.00	324.00
110.0	72" x 12" Panels	3	22.289	24.518	0.54	0.80	13.51	0.000	0.000	529.88	0.00	0.00	162.00
110.0	Round T-Arms	3	22.289	24.518	0.45	0.75	13.09	0.000	0.000	513.70	0.00	0.00	900.00
130.0	Antel BXA-171063-8BF	1	23.481	25.829	0.57	0.80	1.67	0.000	2.000	69.01	0.00	138.02	12.60
130.0	Antel BXA-171085-8BF	2	23.481	25.829	0.57	0.80	3.34	0.000	2.000	138.02	0.00	276.05	26.40
130.0	Antel BXA-70063/6CF	3	23.481	25.829	0.53	0.80	12.01	0.000	2.000	496.20	0.00	992.40	53.64
130.0	Antel LPA-80063/6CF	2	23.379	25.717	0.61	0.80	11.66	0.000	0.000	479.83	0.00	0.00	64.80
130.0	Antel LPA-80080/6CF	4	23.481	25.829	0.52	0.80	17.95	0.000	2.000	741.83	0.00	1,483.66	100.80
130.0	RFS FD9R6004/1C-3L	6	23.481	25.829	0.40	0.80	0.89	0.000	2.000	36.70	0.00	73.40	22.32
130.0	Round Low Profile Pl	1	23.379	25.717	1.00	1.00	21.70	0.000	0.000	892.88	0.00	0.00	1,800.00
140.0	Alcatel-Lucent 1900	3	23.879	26.267	0.54	0.80	4.36	0.000	0.000	183.14	0.00	0.00	216.00
140.0	Alcatel-Lucent 800 M	3	23.879	26.267	0.54	0.80	3.86	0.000	0.000	162.19	0.00	0.00	230.40
140.0	Decibel DB980H90E-M	6	23.976	26.374	0.54	0.80	12.54	0.000	2.000	529.27	0.00	1,058.53	61.20
140.0	RFS APXVSPP18-C-	3	23.879	26.267	0.66	0.80	15.98	0.000	0.000	671.42	0.00	0.00	205.20
140.0	Round Low Profile Pl	1	23.976	26.374	0.90	1.00	16.20	0.000	2.000	683.61	0.00	1,367.22	1,440.00
150.0	Andrew ABT-DMDM-	6	24.538	26.992	0.40	0.80	0.12	0.000	4.000	5.18	0.00	20.73	7.92
150.0	Ericsson RRUS 11	6	24.538	26.992	0.54	0.80	8.20	0.000	4.000	354.17	0.00	1,416.69	360.00
150.0	KMW AM-X-CD-16-65-	3	24.538	26.992	0.63	0.80	15.21	0.000	4.000	656.71	0.00	2,626.83	174.60
150.0	Powerwave 7770.00A	6	24.538	26.992	0.61	0.80	20.28	0.000	4.000	875.97	0.00	3,503.88	252.00
150.0	Powerwave TT19-	6	24.538	26.992	0.40	0.80	1.54	0.000	4.000	66.34	0.00	265.34	115.20
150.0	Round Low Profile Pl	1	24.401	26.841	0.90	1.00	19.53	0.000	1.000	838.72	0.00	838.72	1,800.00
										10,019.70			8,341.08

Pole :	302523	Code: ANSI/TIA-222 Rev G	9/21/2012 10:16:26 AM
Location :	New Milford CT 2, CT	Struct Class : II	Page: 10
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		



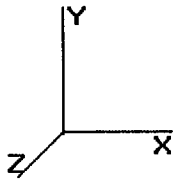
Load Case: 1.2D + 1.6W — 95.00 mph with No Ice — 29 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60
Wind Importance Factor : 1.00

Linear Appurtenance Segment Forces (Factored)

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	qz (psf)	Ra	Cf Adjust Factor	F X (lb)	Dead Load (lb)
6.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.244	0.000	57.87	73.51
6.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.244	0.000	0.00	0.18
7.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.247	0.000	57.87	73.51
7.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.247	0.000	0.00	0.18
8.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.250	0.000	57.87	73.51
8.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.250	0.000	0.00	0.18
9.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.253	0.000	57.87	73.51
9.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.253	0.000	0.00	0.18
10.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.256	0.000	57.87	73.51
10.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.256	0.000	0.00	0.18
11.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.259	0.000	57.87	73.51
11.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.259	0.000	0.00	0.18
12.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.262	0.000	57.87	73.51
12.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.262	0.000	0.00	0.18
13.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.265	0.000	57.87	73.51
13.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.265	0.000	0.00	0.18
14.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.268	0.000	57.87	73.51
14.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.268	0.000	0.00	0.18
15.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.272	0.000	57.87	73.51
15.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.272	0.000	0.00	0.18
16.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.272	0.000	57.87	73.51
16.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.272	0.000	0.00	0.18
17.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.273	0.000	57.87	73.51
17.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.273	0.000	0.00	0.18
18.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.274	0.000	57.87	73.51
18.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.274	0.000	0.00	0.18
19.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.275	0.000	57.87	73.51
19.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.275	0.000	0.00	0.18
20.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.276	0.000	57.87	73.51
20.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.276	0.000	0.00	0.18
21.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.277	0.000	57.87	73.51
21.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.277	0.000	0.00	0.18
22.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.278	0.000	57.87	73.51
22.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.278	0.000	0.00	0.18
23.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.279	0.000	57.87	73.51
23.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.279	0.000	0.00	0.18
24.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.280	0.000	57.87	73.51
24.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.280	0.000	0.00	0.18
25.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.282	0.000	57.87	73.51
25.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.282	0.000	0.00	0.18
26.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.283	0.000	57.87	73.51
26.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.283	0.000	0.00	0.18
27.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.284	0.000	57.87	73.51
27.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.284	0.000	0.00	0.18
28.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.285	0.000	57.87	73.51
28.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.285	0.000	0.00	0.18
29.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.286	0.000	57.87	73.51
29.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.286	0.000	0.00	0.18
30.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.377	0.287	0.000	57.92	73.51
30.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.377	0.287	0.000	0.00	0.18
31.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.522	0.288	0.000	58.46	73.51

Pole : 302523	Code: ANSI/TIA-222 Rev G		9/21/2012 10:16:26 AM
Location : New Milford CT 2, CT	Struct Class : II		Page: 11
Height : 150.0 (ft)	Exposure Category : B		
Base Dia : 53.90 (in)	Topographic Category : 1		
Top Dia : 15.00 (in)	Base Elev : 0.000 (ft)		
Shape : 12 Sides			
Taper : 0.156700 (in/ft)			

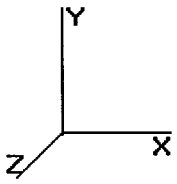


Load Case: 1.2D + 1.6W — 95.00 mph with No Ice — 29 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60
Wind Importance Factor : 1.00

31.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.522	0.288	0.000	0.00	0.18
32.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.663	0.289	0.000	58.99	73.51
32.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.663	0.289	0.000	0.00	0.18
33.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.802	0.290	0.000	59.52	73.51
33.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.802	0.290	0.000	0.00	0.18
34.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.937	0.291	0.000	60.03	73.51
34.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.937	0.291	0.000	0.00	0.18
35.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	16.070	0.292	0.000	60.52	73.51
35.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	16.070	0.292	0.000	0.00	0.18
36.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	16.199	0.293	0.000	61.01	73.51
36.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	16.199	0.293	0.000	0.00	0.18
37.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	16.327	0.295	0.000	61.49	73.51
37.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	16.327	0.295	0.000	0.00	0.18
38.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	16.452	0.296	0.000	61.96	73.51
38.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	16.452	0.296	0.000	0.00	0.18
39.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	16.574	0.297	0.000	62.42	73.51
39.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	16.574	0.297	0.000	0.00	0.18
40.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	16.694	0.298	0.000	62.88	73.51
40.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	16.694	0.298	0.000	0.00	0.18
41.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	16.813	0.299	0.000	63.32	73.51
41.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	16.813	0.299	0.000	0.00	0.18
42.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	16.929	0.300	0.000	63.76	73.51
42.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	16.929	0.300	0.000	0.00	0.18
43.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	17.043	0.302	0.000	64.19	73.51
43.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	17.043	0.302	0.000	0.00	0.18
44.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	17.155	0.303	0.000	64.61	73.51
44.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	17.155	0.303	0.000	0.00	0.18
45.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	17.266	0.304	0.000	65.03	73.51
45.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	17.266	0.304	0.000	0.00	0.18
46.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	17.375	0.305	0.000	65.44	73.51
46.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	17.375	0.305	0.000	0.00	0.18
47.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	17.482	0.306	0.000	65.84	73.51
47.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	17.482	0.306	0.000	0.00	0.18
48.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	17.587	0.308	0.000	66.24	73.51
48.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	17.587	0.308	0.000	0.00	0.18
49.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	17.691	0.309	0.000	66.63	73.51
49.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	17.691	0.309	0.000	0.00	0.18
50.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	17.793	0.310	0.000	67.02	73.51
50.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	17.793	0.310	0.000	0.00	0.18
51.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	17.894	0.311	0.000	67.40	73.51
51.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	17.894	0.311	0.000	0.00	0.18
52.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	17.994	0.313	0.000	67.77	73.51
52.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	17.994	0.313	0.000	0.00	0.18
53.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	18.092	0.314	0.000	68.14	73.51
53.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	18.092	0.314	0.000	0.00	0.18
54.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	18.189	0.315	0.000	68.51	73.51
54.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	18.189	0.315	0.000	0.00	0.18
55.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	18.285	0.317	0.000	68.87	73.51
55.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	18.285	0.317	0.000	0.00	0.18
56.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	18.379	0.315	0.000	69.22	73.51
56.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	18.379	0.315	0.000	0.00	0.18
57.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	18.472	0.317	0.000	69.57	73.51
57.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	18.472	0.317	0.000	0.00	0.18
58.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	18.564	0.318	0.000	69.92	73.51
58.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	18.564	0.318	0.000	0.00	0.18
59.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	18.655	0.319	0.000	70.26	73.51
59.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	18.655	0.319	0.000	0.00	0.18

Pole :	302523	Code: ANSI/TIA-222 Rev G			9/21/2012 10:16:26 AM
Location :	New Milford CT 2, CT	Struct Class : II			Page: 12
Height :	150.0 (ft)	Exposure Category : B			
Base Dia :	53.90 (in)	Topographic Category : 1			
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)			
Shape :	12 Sides				
Taper :	0.156700 (in/ft)				



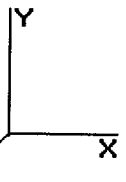
Load Case: 1.2D + 1.6W — 95.00 mph with No Ice — 29 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60
Wind Importance Factor : 1.00

60.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	18.745	0.321	0.000	70.60	73.51
60.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	18.745	0.321	0.000	0.00	0.18
61.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	18.834	0.322	0.000	70.94	73.51
61.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	18.834	0.322	0.000	0.00	0.18
62.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	18.921	0.324	0.000	71.27	73.51
62.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	18.921	0.324	0.000	0.00	0.18
63.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	19.008	0.325	0.000	71.59	73.51
63.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	19.008	0.325	0.000	0.00	0.18
64.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	19.094	0.326	0.000	71.91	73.51
64.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	19.094	0.326	0.000	0.00	0.18
65.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	19.179	0.328	0.000	72.23	73.51
65.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	19.179	0.328	0.000	0.00	0.18
66.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	19.262	0.329	0.000	72.55	73.51
66.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	19.262	0.329	0.000	0.00	0.18
67.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	19.345	0.331	0.000	72.86	73.51
67.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	19.345	0.331	0.000	0.00	0.18
68.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	19.427	0.332	0.000	73.17	73.51
68.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	19.427	0.332	0.000	0.00	0.18
69.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	19.509	0.333	0.000	73.48	73.51
69.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	19.509	0.333	0.000	0.00	0.18
70.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	19.589	0.335	0.000	73.78	73.51
70.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	19.589	0.335	0.000	0.00	0.18
71.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	19.669	0.336	0.000	74.08	73.51
71.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	19.669	0.336	0.000	0.00	0.18
72.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	19.747	0.338	0.000	74.38	73.51
72.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	19.747	0.338	0.000	0.00	0.18
73.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	19.825	0.339	0.000	74.67	73.51
73.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	19.825	0.339	0.000	0.00	0.18
74.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	19.902	0.341	0.000	74.96	73.51
74.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	19.902	0.341	0.000	0.00	0.18
75.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	19.979	0.342	0.000	75.25	73.51
75.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	19.979	0.342	0.000	0.00	0.18
76.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	20.055	0.344	0.000	75.53	73.51
77.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	20.130	0.346	0.000	75.82	73.51
78.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	20.204	0.347	0.000	76.10	73.51
79.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	20.278	0.349	0.000	76.37	73.51
80.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	20.351	0.487	0.000	29.85	60.12
80.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	20.351	0.487	0.000	76.65	73.51
81.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	20.423	0.489	0.000	29.95	60.12
81.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	20.423	0.489	0.000	76.92	73.51
82.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	20.495	0.491	0.000	30.06	60.12
82.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	20.495	0.491	0.000	77.19	73.51
83.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	20.566	0.494	0.000	30.16	60.12
83.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	20.566	0.494	0.000	77.46	73.51
84.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	20.636	0.496	0.000	30.27	60.12
84.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	20.636	0.496	0.000	77.73	73.51
84.11	(3) #20 Dywidag Bars	Yes	0.11	2.000	5.00	0.05	0.09	20.644	0.497	0.000	3.33	6.61
84.11	(2) Seam Flange	Yes	0.11	2.000	12.84	0.12	0.24	20.644	0.497	0.000	8.55	8.08
85.00	(3) #20 Dywidag Bars	Yes	0.89	2.000	5.00	0.37	0.74	20.706	0.498	0.000	27.03	53.51
85.00	(2) Seam Flange	Yes	0.89	2.000	12.84	0.95	1.90	20.706	0.498	0.000	69.42	65.43
86.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	20.776	0.498	0.000	14.55	11.81
86.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	20.776	0.498	0.000	14.55	11.81
86.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	20.776	0.498	0.000	30.47	60.12
87.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	20.844	0.501	0.000	14.60	11.81
87.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	20.844	0.501	0.000	14.60	11.81
87.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	20.844	0.501	0.000	30.57	60.12
88.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	20.913	0.504	0.000	14.65	11.81

Pole : 302523
Location : New Milford CT 2, CT
Height : 150.0 (ft)
Base Dia : 53.90 (in)
Top Dia : 15.00 (in)
Shape : 12 Sides
Taper : 0.156700 (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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Page: 13

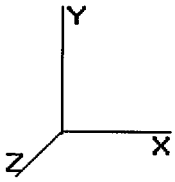
Load Case: 1.2D + 1.6W — 95.00 mph with No Ice — 29 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

88.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	20.913	0.504	0.000	14.65	11.81
88.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	20.913	0.504	0.000	30.67	60.12
89.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	20.980	0.507	0.000	14.70	11.81
89.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	20.980	0.507	0.000	14.70	11.81
89.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	20.980	0.507	0.000	30.77	60.12
90.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.047	0.511	0.000	14.74	11.81
90.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.047	0.511	0.000	14.74	11.81
90.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	21.047	0.511	0.000	30.87	60.12
91.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.114	0.514	0.000	14.79	11.81
91.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.114	0.514	0.000	14.79	11.81
91.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	21.114	0.514	0.000	30.97	60.12
92.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.180	0.517	0.000	14.84	11.81
92.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.180	0.517	0.000	14.84	11.81
92.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	21.180	0.517	0.000	31.06	60.12
93.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.245	0.521	0.000	14.88	11.81
93.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.245	0.521	0.000	14.88	11.81
93.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	21.245	0.521	0.000	31.16	60.12
94.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.310	0.524	0.000	14.93	11.81
94.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.310	0.524	0.000	14.93	11.81
94.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	21.310	0.524	0.000	31.26	60.12
95.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.375	0.528	0.000	14.97	11.81
95.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.375	0.528	0.000	14.97	11.81
95.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	21.375	0.528	0.000	31.35	60.12
95.50	(12) 1 5/8" Coax	Yes	0.50	1.200	3.98	0.17	0.20	21.407	0.530	0.000	7.50	5.90
95.50	(12) 1 5/8" Coax	Yes	0.50	1.200	3.98	0.17	0.20	21.407	0.530	0.000	7.50	5.90
95.50	(3) #20 Dywidag Bars	Yes	0.50	2.000	5.00	0.21	0.42	21.407	0.530	0.000	15.70	30.06
96.00	(12) 1 5/8" Coax	Yes	0.50	1.200	3.98	0.17	0.20	21.439	0.532	0.000	7.51	5.90
96.00	(12) 1 5/8" Coax	Yes	0.50	1.200	3.98	0.17	0.20	21.439	0.532	0.000	7.51	5.90
96.00	(3) #20 Dywidag Bars	Yes	0.50	2.000	5.00	0.21	0.42	21.439	0.532	0.000	15.72	30.06
97.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.503	0.535	0.000	15.06	11.81
97.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.503	0.535	0.000	15.06	11.81
97.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	21.503	0.535	0.000	31.54	60.12
98.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.566	0.539	0.000	15.11	11.81
98.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.566	0.539	0.000	15.11	11.81
98.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	21.566	0.539	0.000	31.63	60.12
99.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.628	0.542	0.000	15.15	11.81
99.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.628	0.542	0.000	15.15	11.81
99.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	21.628	0.542	0.000	31.72	60.12
100.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.690	0.546	0.000	15.19	11.81
100.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.690	0.546	0.000	15.19	11.81
100.0	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	21.690	0.546	0.000	31.81	60.12
101.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.752	0.338	0.000	15.24	11.81
101.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.752	0.338	0.000	15.24	11.81
102.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.814	0.340	0.000	15.28	11.81
102.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.814	0.340	0.000	15.28	11.81
103.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.874	0.343	0.000	15.32	11.81
103.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.874	0.343	0.000	15.32	11.81
104.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.935	0.345	0.000	15.36	11.81
104.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.935	0.345	0.000	15.36	11.81
105.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.995	0.348	0.000	15.41	11.81
105.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.995	0.348	0.000	15.41	11.81
106.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	22.055	0.350	0.000	15.45	11.81
106.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	22.055	0.350	0.000	15.45	11.81
107.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	22.114	0.353	0.000	15.49	11.81
107.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	22.114	0.353	0.000	15.49	11.81
108.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	22.173	0.355	0.000	15.53	11.81
108.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	22.173	0.355	0.000	15.53	11.81

Pole :	302523	Code: ANSI/TIA-222 Rev G	9/21/2012 10:16:28 AM
Location :	New Milford CT 2, CT	Struct Class : II	Page: 29
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

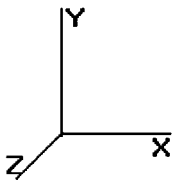


Load Case: 0.9D + 1.6W — 95.00 mph with No Ice (Reduced DL) — 29 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60
Wind Importance Factor : 1.00

109.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	22.231	0.358	0.000	15.57	8.85
109.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	22.231	0.358	0.000	15.57	8.85
110.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	22.289	0.360	0.000	15.61	8.85
110.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	22.289	0.360	0.000	15.61	8.85
111.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	22.347	0.182	1.245	0.00	8.85
112.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	22.404	0.183	1.249	0.00	8.85
113.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	22.461	0.184	1.253	0.00	8.85
114.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	22.518	0.186	1.257	0.00	8.85
115.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	22.574	0.187	1.261	0.00	8.85
116.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	22.630	0.189	1.266	0.00	8.85
117.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	22.686	0.190	1.270	0.00	8.85
118.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	22.741	0.191	1.274	0.00	8.85
119.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	22.796	0.193	1.279	0.00	8.85
120.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	22.850	0.194	1.283	0.00	8.85
121.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	22.905	0.196	1.288	0.00	8.85
122.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	22.959	0.198	1.293	0.00	8.85
123.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	23.012	0.199	1.298	0.00	8.85
124.0	(12) 1 5/8" Coax	Yes	1.00	1.189	3.98	0.33	0.39	23.065	0.201	0.000	16.01	8.85
125.0	(12) 1 5/8" Coax	Yes	1.00	1.187	3.98	0.33	0.39	23.118	0.203	0.000	16.03	8.85
126.0	(12) 1 5/8" Coax	Yes	1.00	1.186	3.98	0.33	0.39	23.171	0.204	0.000	16.04	8.85
127.0	(12) 1 5/8" Coax	Yes	1.00	1.185	3.98	0.33	0.39	23.223	0.206	0.000	16.06	8.85
128.0	(12) 1 5/8" Coax	Yes	1.00	1.183	3.98	0.33	0.39	23.276	0.208	0.000	16.08	8.85
129.0	(12) 1 5/8" Coax	Yes	1.00	1.182	3.98	0.33	0.39	23.327	0.209	0.000	16.10	8.85
130.0	(12) 1 5/8" Coax	Yes	1.00	1.181	3.98	0.33	0.39	23.379	0.211	0.000	16.12	8.85
										Totals:	6,776.46	5,986.90

Pole :	302523	Code: ANSI/TIA-222 Rev G	9/21/2012 10:16:28 AM
Location :	New Milford CT 2, CT	Struct Class : II	Page: 30
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		



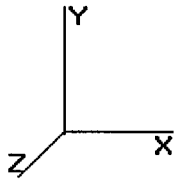
Load Case: 0.9D + 1.6W — 95.00 mph with No Ice (Reduced DL) — 29 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60
Wind Importance 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
1.00	125.08	391.00	0.00	0.00
2.00	123.76	386.80	0.00	0.00
3.00	122.44	382.61	0.00	0.00
4.00	121.11	378.41	0.00	0.00
5.00	119.79	374.22	0.00	0.00
6.00	200.03	464.88	0.00	0.00
7.00	198.44	460.69	0.00	0.00
8.00	196.85	456.50	0.00	0.00
9.00	195.27	452.30	0.00	0.00
10.00	193.68	448.11	0.00	0.00
11.00	192.09	443.92	0.00	0.00
12.00	190.50	439.72	0.00	0.00
13.00	188.92	435.53	0.00	0.00
14.00	187.33	431.34	0.00	0.00
15.00	185.74	427.14	0.00	0.00
16.00	185.30	398.79	0.00	0.00
17.00	184.84	397.69	0.00	0.00
18.00	184.39	396.59	0.00	0.00
19.00	183.93	395.49	0.00	0.00
20.00	183.48	394.39	0.00	0.00
21.00	183.02	393.28	0.00	0.00
22.00	182.57	392.18	0.00	0.00
23.00	182.11	391.08	0.00	0.00
24.00	181.66	389.98	0.00	0.00
25.00	181.20	388.88	0.00	0.00
26.00	180.75	387.78	0.00	0.00
27.00	180.29	386.67	0.00	0.00
28.00	179.84	385.57	0.00	0.00
29.00	179.38	384.47	0.00	0.00
30.00	179.08	383.37	0.00	0.00
31.00	180.30	382.27	0.00	0.00
32.00	181.48	381.17	0.00	0.00
33.00	182.62	380.06	0.00	0.00
34.00	183.71	378.96	0.00	0.00
35.00	184.76	377.86	0.00	0.00
36.00	185.78	376.76	0.00	0.00
37.00	186.75	375.66	0.00	0.00
38.00	187.69	374.56	0.00	0.00
39.00	188.60	373.45	0.00	0.00
40.00	189.48	372.35	0.00	0.00
41.00	190.32	371.25	0.00	0.00
42.00	191.13	370.15	0.00	0.00
43.00	191.92	369.05	0.00	0.00
44.00	192.68	367.95	0.00	0.00
45.00	193.41	366.84	0.00	0.00
46.00	194.11	365.74	0.00	0.00
47.00	194.79	364.64	0.00	0.00
48.00	195.44	363.54	0.00	0.00
49.00	196.07	362.44	0.00	0.00

Pole :	302523	Code: ANSI/TIA-222 Rev G	9/21/2012 10:16:28 AM
Location :	New Milford CT 2, CT	Struct Class : II	Page: 31
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

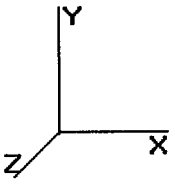


Load Case: 0.9D + 1.6W — 95.00 mph with No Ice (Reduced DL) — 29 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60
Wind Importance Factor : 1.00

50.00	196.68	361.34	0.00	0.00
51.00	197.27	360.23	0.00	0.00
52.00	197.83	359.13	0.00	0.00
53.00	198.38	358.03	0.00	0.00
54.00	198.90	356.93	0.00	0.00
55.00	199.40	355.83	0.00	0.00
56.00	200.89	333.33	0.00	0.00
57.00	201.36	332.33	0.00	0.00
58.00	201.81	331.32	0.00	0.00
59.00	202.24	330.31	0.00	0.00
60.00	202.66	329.31	0.00	0.00
61.00	203.06	328.30	0.00	0.00
62.00	203.44	327.29	0.00	0.00
63.00	203.81	326.29	0.00	0.00
64.00	204.16	325.28	0.00	0.00
65.00	204.49	324.27	0.00	0.00
66.00	204.81	323.27	0.00	0.00
67.00	205.12	322.26	0.00	0.00
68.00	205.41	321.25	0.00	0.00
69.00	205.69	320.25	0.00	0.00
70.00	205.96	319.24	0.00	0.00
71.00	206.21	318.23	0.00	0.00
72.00	206.44	317.23	0.00	0.00
73.00	206.67	316.22	0.00	0.00
74.00	206.88	315.21	0.00	0.00
75.00	242.25	323.21	0.00	0.00
76.00	207.27	270.01	0.00	0.00
77.00	207.45	269.21	0.00	0.00
78.00	207.61	268.40	0.00	0.00
79.00	207.77	267.60	0.00	0.00
80.00	237.76	311.88	0.00	0.00
81.00	237.99	311.07	0.00	0.00
82.00	238.22	310.27	0.00	0.00
83.00	238.43	309.46	0.00	0.00
84.00	238.64	308.66	0.00	0.00
84.11	26.20	33.87	0.00	0.00
85.00	212.55	318.57	0.00	0.00
86.00	154.78	196.16	0.00	0.00
87.00	154.69	195.77	0.00	0.00
88.00	154.59	195.38	0.00	0.00
89.00	154.48	194.99	0.00	0.00
90.00	154.36	194.59	0.00	0.00
91.00	154.24	194.20	0.00	0.00
92.00	154.11	193.81	0.00	0.00
93.00	153.97	193.42	0.00	0.00
94.00	153.82	193.02	0.00	0.00
95.00	153.67	192.63	0.00	0.00
95.50	76.72	96.17	0.00	0.00
96.00	76.68	71.02	0.00	0.00
97.00	153.34	141.75	0.00	0.00
98.00	153.16	141.35	0.00	0.00
99.00	152.98	140.96	0.00	0.00
100.0	152.79	140.57	0.00	0.00
101.0	120.69	95.09	0.00	0.00
102.0	120.40	94.69	0.00	0.00
103.0	120.10	94.30	0.00	0.00
104.0	119.80	93.91	0.00	0.00

Pole :	302523	Code: ANSI/TIA-222 Rev G	9/21/2012 10:16:28 AM
Location :	New Milford CT 2, CT	Struct Class : II	Page: 32
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		



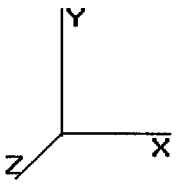
Load Case: 0.9D + 1.6W — 95.00 mph with No Ice (Reduced DL) — 29 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

105.0	119.49	93.52	0.00	0.00
106.0	119.17	93.12	0.00	0.00
107.0	118.85	92.73	0.00	0.00
108.0	118.52	92.34	0.00	0.00
109.0	118.19	91.95	0.00	0.00
110.0	2,221.18	1,131.05	0.00	0.00
111.0	71.84	69.53	0.00	0.00
112.0	71.49	69.24	0.00	0.00
113.0	71.14	68.95	0.00	0.00
114.0	70.79	68.67	0.00	0.00
115.0	70.43	68.38	0.00	0.00
116.0	70.07	68.09	0.00	0.00
117.0	69.70	67.80	0.00	0.00
118.0	69.33	67.51	0.00	0.00
119.0	68.96	67.22	0.00	0.00
120.0	68.58	66.93	0.00	0.00
121.0	68.20	66.64	0.00	0.00
122.0	67.81	66.35	0.00	0.00
123.0	67.43	66.07	0.00	0.00
124.0	96.45	65.78	0.00	0.00
125.0	95.99	65.49	0.00	0.00
126.0	95.54	65.20	0.00	0.00
127.0	95.07	64.91	0.00	0.00
128.0	94.60	64.62	0.00	0.00
129.0	94.13	64.33	0.00	0.00
130.0	2,948.14	1,624.46	0.00	2,963.53
131.0	64.20	54.90	0.00	0.00
132.0	63.79	54.61	0.00	0.00
133.0	63.37	54.32	0.00	0.00
134.0	62.94	54.03	0.00	0.00
135.0	62.52	53.74	0.00	0.00
136.0	62.09	53.45	0.00	0.00
137.0	61.65	53.17	0.00	0.00
138.0	61.22	52.88	0.00	0.00
139.0	60.78	52.59	0.00	0.00
140.0	2,289.97	1,666.90	0.00	2,425.75
141.0	59.89	44.88	0.00	0.00
142.0	59.44	44.59	0.00	0.00
143.0	58.99	44.30	0.00	0.00
144.0	58.54	44.02	0.00	0.00
145.0	58.08	43.73	0.00	0.00
146.0	57.62	43.44	0.00	0.00
147.0	57.16	43.15	0.00	0.00
148.0	56.70	42.86	0.00	0.00
149.0	56.23	42.57	0.00	0.00
150.0	2,852.85	2,074.57	0.00	8,672.20
Totals:	32,694.10	43,092.35	0.00	14,061.48

Pole :	302523	Code: ANSI/TIA-222 Rev G	9/21/2012 10:16:28 AM
Location :	New Milford CT 2, CT	Struct Class : II	Page: 33
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		



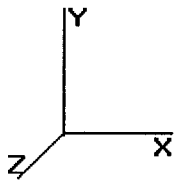
Load Case: 0.9D + 1.6W — 95.00 mph with No Ice (Reduced DL) — 29 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60
Wind 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	-43.09	-32.70	0.00	-2,851.69	0.00	2,851.69	5,589.22	2,794.61	12,188.1	6,019.28	0.00	0.00	0.482
1.00	-42.69	-32.59	0.00	-2,818.99	0.00	2,818.99	5,529.59	2,764.80	11,927.7	5,890.65	0.00	-0.02	0.486
2.00	-42.29	-32.48	0.00	-2,786.41	0.00	2,786.41	5,469.96	2,734.98	11,670.0	5,763.42	0.01	-0.04	0.491
3.00	-41.90	-32.37	0.00	-2,753.93	0.00	2,753.93	5,410.34	2,705.17	11,415.2	5,637.57	0.02	-0.05	0.496
4.00	-41.51	-32.26	0.00	-2,721.57	0.00	2,721.57	5,350.71	2,675.36	11,163.2	5,513.11	0.03	-0.07	0.502
5.00	-41.12	-32.15	0.00	-2,689.31	0.00	2,689.31	5,291.09	2,645.54	10,914.0	5,390.04	0.05	-0.09	0.507
6.00	-40.65	-31.96	0.00	-2,657.16	0.00	2,657.16	5,231.46	2,615.73	10,667.6	5,268.37	0.07	-0.11	0.512
7.00	-40.18	-31.78	0.00	-2,625.19	0.00	2,625.19	5,171.84	2,585.92	10,424.1	5,148.08	0.09	-0.13	0.518
8.00	-39.71	-31.60	0.00	-2,593.42	0.00	2,593.42	5,112.21	2,556.11	10,183.3	5,029.18	0.12	-0.15	0.524
9.00	-39.24	-31.41	0.00	-2,561.82	0.00	2,561.82	5,052.58	2,526.29	9,945.41	4,911.66	0.16	-0.17	0.530
10.00	-38.79	-31.23	0.00	-2,530.41	0.00	2,530.41	4,992.96	2,496.48	9,710.28	4,795.54	0.20	-0.19	0.536
11.00	-38.33	-31.05	0.00	-2,499.18	0.00	2,499.18	4,933.33	2,466.67	9,477.97	4,680.81	0.24	-0.21	0.542
12.00	-37.88	-30.88	0.00	-2,468.12	0.00	2,468.12	4,873.71	2,436.85	9,248.46	4,567.47	0.29	-0.24	0.548
13.00	-37.43	-30.70	0.00	-2,437.25	0.00	2,437.25	4,814.08	2,407.04	9,021.78	4,455.52	0.34	-0.26	0.555
14.00	-36.99	-30.53	0.00	-2,406.55	0.00	2,406.55	4,754.46	2,377.23	8,797.90	4,344.95	0.40	-0.28	0.562
15.00	-36.55	-30.35	0.00	-2,376.02	0.00	2,376.02	4,694.83	2,347.42	8,576.84	4,235.78	0.46	-0.31	0.569
15.00	-36.55	-30.35	0.00	-2,376.02	0.00	2,376.02	4,521.17	2,260.59	8,321.30	4,109.58	0.46	-0.31	0.586
16.00	-36.14	-30.18	0.00	-2,345.67	0.00	2,345.67	4,504.82	2,252.41	8,260.75	4,079.67	0.52	-0.33	0.583
17.00	-35.73	-30.01	0.00	-2,315.48	0.00	2,315.48	4,488.46	2,244.23	8,200.41	4,049.87	0.60	-0.36	0.580
18.00	-35.32	-29.84	0.00	-2,285.47	0.00	2,285.47	4,472.10	2,236.05	8,140.29	4,020.18	0.67	-0.38	0.577
19.00	-34.91	-29.67	0.00	-2,255.63	0.00	2,255.63	4,455.74	2,227.87	8,080.40	3,990.60	0.76	-0.41	0.573
20.00	-34.51	-29.50	0.00	-2,225.96	0.00	2,225.96	4,439.38	2,219.69	8,020.72	3,961.13	0.85	-0.43	0.570
21.00	-34.10	-29.33	0.00	-2,196.46	0.00	2,196.46	4,423.02	2,211.51	7,961.27	3,931.77	0.94	-0.46	0.567
22.00	-33.70	-29.16	0.00	-2,167.13	0.00	2,167.13	4,406.67	2,203.33	7,902.04	3,902.52	1.04	-0.49	0.563
23.00	-33.29	-28.99	0.00	-2,137.98	0.00	2,137.98	4,390.31	2,195.15	7,843.03	3,873.38	1.14	-0.51	0.560
24.00	-32.89	-28.82	0.00	-2,108.99	0.00	2,108.99	4,373.95	2,186.97	7,784.24	3,844.34	1.25	-0.54	0.556
25.00	-32.49	-28.65	0.00	-2,080.17	0.00	2,080.17	4,357.59	2,178.80	7,725.67	3,815.42	1.37	-0.56	0.553
26.00	-32.09	-28.48	0.00	-2,051.53	0.00	2,051.53	4,341.23	2,170.62	7,667.32	3,786.60	1.49	-0.59	0.549
27.00	-31.70	-28.31	0.00	-2,023.05	0.00	2,023.05	4,324.87	2,162.44	7,609.20	3,757.90	1.62	-0.62	0.546
28.00	-31.30	-28.14	0.00	-1,994.74	0.00	1,994.74	4,308.52	2,154.26	7,551.29	3,729.30	1.75	-0.64	0.542
29.00	-30.91	-27.97	0.00	-1,966.61	0.00	1,966.61	4,292.16	2,146.08	7,493.61	3,700.81	1.89	-0.67	0.539
30.00	-30.51	-27.80	0.00	-1,938.64	0.00	1,938.64	4,275.80	2,137.90	7,436.15	3,672.43	2.03	-0.69	0.535
31.00	-30.12	-27.62	0.00	-1,910.85	0.00	1,910.85	4,259.44	2,129.72	7,378.91	3,644.16	2.18	-0.72	0.532
32.00	-29.73	-27.45	0.00	-1,883.22	0.00	1,883.22	4,243.08	2,121.54	7,321.89	3,616.00	2.33	-0.74	0.528
33.00	-29.34	-27.28	0.00	-1,855.77	0.00	1,855.77	4,226.72	2,113.36	7,265.09	3,587.95	2.49	-0.77	0.524
34.00	-28.95	-27.10	0.00	-1,828.50	0.00	1,828.50	4,210.37	2,105.18	7,208.51	3,560.01	2.65	-0.79	0.521
35.00	-28.57	-26.92	0.00	-1,801.40	0.00	1,801.40	4,194.01	2,097.00	7,152.15	3,532.18	2.82	-0.82	0.517
36.00	-28.18	-26.74	0.00	-1,774.48	0.00	1,774.48	4,177.65	2,088.82	7,096.02	3,504.46	2.99	-0.84	0.513
37.00	-27.80	-26.56	0.00	-1,747.73	0.00	1,747.73	4,161.29	2,080.65	7,040.10	3,476.84	3.17	-0.87	0.510
38.00	-27.41	-26.38	0.00	-1,721.17	0.00	1,721.17	4,144.93	2,072.47	6,984.41	3,449.34	3.36	-0.89	0.506
39.00	-27.03	-26.20	0.00	-1,694.79	0.00	1,694.79	4,128.57	2,064.29	6,928.94	3,421.94	3.55	-0.92	0.502
40.00	-26.65	-26.01	0.00	-1,668.59	0.00	1,668.59	4,112.22	2,056.11	6,873.69	3,394.66	3.74	-0.94	0.498
41.00	-26.27	-25.83	0.00	-1,642.58	0.00	1,642.58	4,095.86	2,047.93	6,818.66	3,367.48	3.94	-0.97	0.494
42.00	-25.89	-25.64	0.00	-1,616.75	0.00	1,616.75	4,079.50	2,039.75	6,763.85	3,340.41	4.15	-0.99	0.491
43.00	-25.52	-25.46	0.00	-1,591.11	0.00	1,591.11	4,063.14	2,031.57	6,709.27	3,313.46	4.36	-1.01	0.487
44.00	-25.14	-25.27	0.00	-1,565.65	0.00	1,565.65	4,046.78	2,023.39	6,654.90	3,286.61	4.57	-1.04	0.483
45.00	-24.77	-25.08	0.00	-1,540.39	0.00	1,540.39	4,030.42	2,015.21	6,600.76	3,259.87	4.79	-1.06	0.479
46.00	-24.40	-24.89	0.00	-1,515.31	0.00	1,515.31	4,014.07	2,007.03	6,546.84	3,233.24	5.02	-1.09	0.475
47.00	-24.02	-24.69	0.00	-1,490.42	0.00	1,490.42	3,997.71	1,998.85	6,493.13	3,206.71	5.25	-1.11	0.471
48.00	-23.65	-24.50	0.00	-1,465.73	0.00	1,465.73	3,981.35	1,990.67	6,439.65	3,180.30	5.48	-1.13	0.467
49.00	-23.29	-24.31	0.00	-1,441.23	0.00	1,441.23	3,964.99	1,982.50	6,386.39	3,154.00	5.72	-1.16	0.463

Pole :	302523	Code: ANSI/TIA-222 Rev G	9/21/2012 10:16:28 AM
Location :	New Milford CT 2, CT	Struct Class : II	Page: 34
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		



Load Case: 0.9D + 1.6W — 95.00 mph with No Ice (Reduced DL) — 29 Iterations

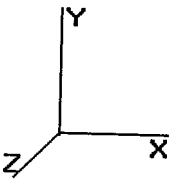
Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

50.00	-22.92	-24.11	0.00	-1,416.92	0.00	1,416.92	3,948.63	1,974.32	6,333.36	3,127.81	5.97	-1.18	0.459
51.00	-22.55	-23.92	0.00	-1,392.81	0.00	1,392.81	3,932.27	1,966.14	6,280.54	3,101.72	6.22	-1.20	0.455
52.00	-22.19	-23.72	0.00	-1,368.89	0.00	1,368.89	3,915.92	1,957.96	6,227.94	3,075.75	6.47	-1.23	0.451
53.00	-21.83	-23.52	0.00	-1,345.17	0.00	1,345.17	3,899.56	1,949.78	6,175.57	3,049.88	6.73	-1.25	0.447
54.00	-21.46	-23.33	0.00	-1,321.65	0.00	1,321.65	3,883.20	1,941.60	6,123.42	3,024.13	7.00	-1.27	0.443
55.00	-21.10	-23.13	0.00	-1,298.32	0.00	1,298.32	3,866.84	1,933.42	6,071.48	2,998.48	7.27	-1.30	0.439
55.00	-21.10	-23.13	0.00	-1,298.32	0.00	1,298.32	3,220.97	1,610.49	5,114.03	2,525.63	7.27	-1.30	0.521
56.00	-20.77	-22.93	0.00	-1,275.19	0.00	1,275.19	3,207.40	1,603.70	5,070.70	2,504.23	7.54	-1.32	0.516
57.00	-20.43	-22.73	0.00	-1,252.27	0.00	1,252.27	3,193.84	1,596.92	5,027.55	2,482.92	7.82	-1.34	0.511
58.00	-20.09	-22.53	0.00	-1,229.54	0.00	1,229.54	3,180.27	1,590.13	4,984.58	2,461.70	8.11	-1.37	0.506
59.00	-19.76	-22.32	0.00	-1,207.02	0.00	1,207.02	3,166.70	1,583.35	4,941.80	2,440.57	8.39	-1.39	0.501
60.00	-19.42	-22.12	0.00	-1,184.69	0.00	1,184.69	3,153.13	1,576.57	4,899.21	2,419.54	8.69	-1.42	0.496
61.00	-19.09	-21.92	0.00	-1,162.57	0.00	1,162.57	3,139.57	1,569.78	4,856.80	2,398.59	8.99	-1.44	0.491
62.00	-18.76	-21.71	0.00	-1,140.65	0.00	1,140.65	3,126.00	1,563.00	4,814.57	2,377.74	9.29	-1.46	0.486
63.00	-18.43	-21.51	0.00	-1,118.94	0.00	1,118.94	3,112.43	1,556.21	4,772.53	2,356.97	9.60	-1.49	0.481
64.00	-18.10	-21.30	0.00	-1,097.43	0.00	1,097.43	3,098.86	1,549.43	4,730.67	2,336.30	9.92	-1.51	0.476
65.00	-17.78	-21.10	0.00	-1,076.13	0.00	1,076.13	3,085.29	1,542.65	4,689.00	2,315.72	10.24	-1.53	0.471
66.00	-17.45	-20.89	0.00	-1,055.03	0.00	1,055.03	3,071.73	1,535.86	4,647.51	2,295.23	10.56	-1.56	0.466
67.00	-17.13	-20.68	0.00	-1,034.14	0.00	1,034.14	3,058.16	1,529.08	4,606.20	2,274.83	10.89	-1.58	0.460
68.00	-16.80	-20.48	0.00	-1,013.45	0.00	1,013.45	3,044.59	1,522.30	4,565.08	2,254.52	11.22	-1.60	0.455
69.00	-16.48	-20.27	0.00	-992.98	0.00	992.98	3,031.02	1,515.51	4,524.15	2,234.31	11.56	-1.62	0.450
70.00	-16.16	-20.06	0.00	-972.71	0.00	972.71	3,017.46	1,508.73	4,483.40	2,214.18	11.90	-1.65	0.445
71.00	-15.84	-19.85	0.00	-952.65	0.00	952.65	3,003.89	1,501.94	4,442.83	2,194.15	12.25	-1.67	0.440
72.00	-15.52	-19.64	0.00	-932.80	0.00	932.80	2,990.32	1,495.16	4,402.45	2,174.20	12.60	-1.69	0.434
73.00	-15.20	-19.43	0.00	-913.15	0.00	913.15	2,976.75	1,488.38	4,362.25	2,154.35	12.96	-1.71	0.429
74.00	-14.89	-19.22	0.00	-893.72	0.00	893.72	2,963.19	1,481.59	4,322.24	2,134.59	13.32	-1.74	0.424
75.00	-14.56	-18.97	0.00	-874.50	0.00	874.50	2,949.62	1,474.81	4,282.41	2,114.92	13.69	-1.76	0.419
75.00	-14.56	-18.97	0.00	-874.50	0.00	874.50	2,628.21	1,314.11	3,842.67	1,897.75	13.69	-1.76	0.467
76.00	-14.29	-18.76	0.00	-855.53	0.00	855.53	2,616.17	1,308.08	3,807.28	1,880.27	14.06	-1.78	0.461
77.00	-14.02	-18.56	0.00	-836.76	0.00	836.76	2,604.12	1,302.06	3,772.05	1,862.87	14.43	-1.80	0.455
78.00	-13.75	-18.35	0.00	-818.21	0.00	818.21	2,592.07	1,296.04	3,736.99	1,845.56	14.81	-1.83	0.449
79.00	-13.48	-18.14	0.00	-799.86	0.00	799.86	2,580.03	1,290.01	3,702.09	1,828.32	15.20	-1.86	0.443
80.00	-13.17	-17.89	0.00	-781.73	0.00	781.73	2,567.98	1,283.99	3,667.36	1,811.17	15.59	-1.88	0.437
81.00	-12.86	-17.65	0.00	-763.84	0.00	763.84	2,555.93	1,277.97	3,632.78	1,794.10	15.99	-1.91	0.431
82.00	-12.55	-17.41	0.00	-746.19	0.00	746.19	2,543.88	1,271.94	3,598.38	1,777.10	16.39	-1.93	0.425
83.00	-12.24	-17.16	0.00	-728.78	0.00	728.78	2,531.84	1,265.92	3,564.13	1,760.19	16.80	-1.96	0.419
84.00	-11.94	-16.92	0.00	-711.61	0.00	711.61	2,519.79	1,259.89	3,530.05	1,743.36	17.21	-1.98	0.413
84.11	-11.90	-16.89	0.00	-709.76	0.00	709.76	2,518.47	1,259.23	3,526.32	1,741.52	17.26	-1.98	0.412
85.00	-11.58	-16.67	0.00	-694.72	0.00	694.72	2,507.74	1,253.87	3,496.14	1,726.61	17.63	-2.01	0.258
85.00	-11.58	-16.67	0.00	-694.72	0.00	694.72	1,414.25	707.13	1,455.35	718.74	17.63	-2.01	0.250
86.00	-11.38	-16.52	0.00	-678.05	0.00	678.05	1,408.59	704.29	1,440.18	711.25	18.05	-2.02	0.324
87.00	-11.18	-16.36	0.00	-661.53	0.00	661.53	1,402.88	701.44	1,425.06	703.78	18.48	-2.06	0.317
88.00	-10.98	-16.21	0.00	-645.16	0.00	645.16	1,397.13	698.56	1,409.96	696.33	18.91	-2.10	0.310
89.00	-10.78	-16.06	0.00	-628.95	0.00	628.95	1,391.33	695.67	1,394.89	688.89	19.36	-2.14	0.303
90.00	-10.58	-15.90	0.00	-612.90	0.00	612.90	1,385.49	692.75	1,379.86	681.46	19.81	-2.18	0.296
91.00	-10.38	-15.75	0.00	-597.00	0.00	597.00	1,379.61	689.81	1,364.87	674.06	20.27	-2.22	0.289
92.00	-10.19	-15.59	0.00	-581.25	0.00	581.25	1,373.69	686.84	1,349.91	666.67	20.74	-2.26	0.283
93.00	-9.99	-15.44	0.00	-565.66	0.00	565.66	1,367.72	683.86	1,334.99	659.30	21.22	-2.29	0.276
94.00	-9.79	-15.28	0.00	-550.22	0.00	550.22	1,361.71	680.85	1,320.10	651.95	21.71	-2.33	0.269
95.00	-9.60	-15.12	0.00	-534.94	0.00	534.94	1,355.66	677.83	1,305.26	644.62	22.20	-2.37	0.262
95.50	-9.50	-15.05	0.00	-527.38	0.00	527.38	1,352.61	676.31	1,297.85	640.96	22.45	-2.38	0.259
95.50	-9.50	-15.05	0.00	-527.38	0.00	527.38	1,352.61	676.31	1,297.85	640.96	22.45	-2.38	0.830
96.00	-9.42	-14.98	0.00	-519.85	0.00	519.85	1,349.56	674.78	1,290.45	637.30	22.70	-2.40	0.823
97.00	-9.25	-14.84	0.00	-504.88	0.00	504.88	1,343.42	671.71	1,275.68	630.01	23.21	-2.52	0.809
98.00	-9.09	-14.70	0.00	-490.04	0.00	490.04	1,337.24	668.62	1,260.95	622.74	23.75	-2.63	0.794
99.00	-8.93	-14.55	0.00	-475.34	0.00	475.34	1,331.01	665.51	1,246.27	615.49	24.32	-2.74	0.779
100.00	-8.77	-14.41	0.00	-460.79	0.00	460.79	1,324.75	662.37	1,231.63	608.25	24.90	-2.85	0.765

Pole :	302523	Code: ANSI/TIA-222 Rev G	9/21/2012 10:16:26 AM
Location :	New Milford CT 2, CT	Struct Class : II	Page: 14
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

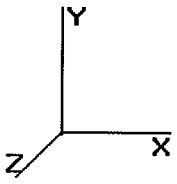


Load Case: 1.2D + 1.6W — 95.00 mph with No Ice — 29 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60
Wind Importance Factor : 1.00

109.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	22.231	0.358	0.000	15.57	11.81
109.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	22.231	0.358	0.000	15.57	11.81
110.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	22.289	0.360	0.000	15.61	11.81
110.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	22.289	0.360	0.000	15.61	11.81
111.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	22.347	0.182	1.245	0.00	11.81
112.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	22.404	0.183	1.249	0.00	11.81
113.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	22.461	0.184	1.253	0.00	11.81
114.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	22.518	0.186	1.257	0.00	11.81
115.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	22.574	0.187	1.261	0.00	11.81
116.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	22.630	0.189	1.266	0.00	11.81
117.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	22.686	0.190	1.270	0.00	11.81
118.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	22.741	0.191	1.274	0.00	11.81
119.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	22.796	0.193	1.279	0.00	11.81
120.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	22.850	0.194	1.283	0.00	11.81
121.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	22.905	0.196	1.288	0.00	11.81
122.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	22.959	0.198	1.293	0.00	11.81
123.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	23.012	0.199	1.298	0.00	11.81
124.0	(12) 1 5/8" Coax	Yes	1.00	1.189	3.98	0.33	0.39	23.065	0.201	0.000	16.01	11.81
125.0	(12) 1 5/8" Coax	Yes	1.00	1.187	3.98	0.33	0.39	23.118	0.203	0.000	16.03	11.81
126.0	(12) 1 5/8" Coax	Yes	1.00	1.186	3.98	0.33	0.39	23.171	0.204	0.000	16.04	11.81
127.0	(12) 1 5/8" Coax	Yes	1.00	1.185	3.98	0.33	0.39	23.223	0.206	0.000	16.06	11.81
128.0	(12) 1 5/8" Coax	Yes	1.00	1.183	3.98	0.33	0.39	23.276	0.208	0.000	16.08	11.81
129.0	(12) 1 5/8" Coax	Yes	1.00	1.182	3.98	0.33	0.39	23.327	0.209	0.000	16.10	11.81
130.0	(12) 1 5/8" Coax	Yes	1.00	1.181	3.98	0.33	0.39	23.379	0.211	0.000	16.12	11.81
										Totals:	6,776.46	7,982.53

Pole :	302523	Code: ANSI/TIA-222 Rev G	9/21/2012 10:16:26 AM
Location :	New Milford CT 2, CT	Struct Class : II	Page: 15
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		



Load Case: 1.2D + 1.6W — 95.00 mph with No Ice — 29 Iterations

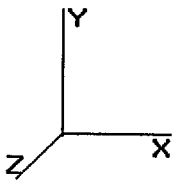
Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60

Wind Importance 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
1.00	125.08	521.33	0.00	0.00
2.00	123.76	515.74	0.00	0.00
3.00	122.44	510.14	0.00	0.00
4.00	121.11	504.55	0.00	0.00
5.00	119.79	498.96	0.00	0.00
6.00	200.03	619.85	0.00	0.00
7.00	198.44	614.25	0.00	0.00
8.00	196.85	608.66	0.00	0.00
9.00	195.27	603.07	0.00	0.00
10.00	193.68	597.48	0.00	0.00
11.00	192.09	591.89	0.00	0.00
12.00	190.50	586.30	0.00	0.00
13.00	188.92	580.71	0.00	0.00
14.00	187.33	575.11	0.00	0.00
15.00	185.74	569.52	0.00	0.00
16.00	185.30	531.72	0.00	0.00
17.00	184.84	530.26	0.00	0.00
18.00	184.39	528.79	0.00	0.00
19.00	183.93	527.32	0.00	0.00
20.00	183.48	525.85	0.00	0.00
21.00	183.02	524.38	0.00	0.00
22.00	182.57	522.91	0.00	0.00
23.00	182.11	521.44	0.00	0.00
24.00	181.66	519.97	0.00	0.00
25.00	181.20	518.50	0.00	0.00
26.00	180.75	517.04	0.00	0.00
27.00	180.29	515.57	0.00	0.00
28.00	179.84	514.10	0.00	0.00
29.00	179.38	512.63	0.00	0.00
30.00	179.08	511.16	0.00	0.00
31.00	180.30	509.69	0.00	0.00
32.00	181.48	508.22	0.00	0.00
33.00	182.62	506.75	0.00	0.00
34.00	183.71	505.28	0.00	0.00
35.00	184.76	503.81	0.00	0.00
36.00	185.78	502.35	0.00	0.00
37.00	186.75	500.88	0.00	0.00
38.00	187.69	499.41	0.00	0.00
39.00	188.60	497.94	0.00	0.00
40.00	189.48	496.47	0.00	0.00
41.00	190.32	495.00	0.00	0.00
42.00	191.13	493.53	0.00	0.00
43.00	191.92	492.06	0.00	0.00
44.00	192.68	490.59	0.00	0.00
45.00	193.41	489.13	0.00	0.00
46.00	194.11	487.66	0.00	0.00
47.00	194.79	486.19	0.00	0.00
48.00	195.44	484.72	0.00	0.00
49.00	196.07	483.25	0.00	0.00

Pole :	302523	Code: ANSI/TIA-222 Rev G	9/21/2012 10:16:26 AM
Location :	New Milford CT 2, CT	Struct Class : II	Page: 16
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		



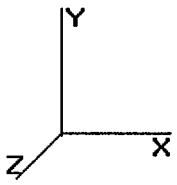
Load Case: 1.2D + 1.6W — 95.00 mph with No Ice — 29 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

50.00	196.68	481.78	0.00	0.00
51.00	197.27	480.31	0.00	0.00
52.00	197.83	478.84	0.00	0.00
53.00	198.38	477.37	0.00	0.00
54.00	198.90	475.91	0.00	0.00
55.00	199.40	474.44	0.00	0.00
56.00	200.89	444.44	0.00	0.00
57.00	201.36	443.10	0.00	0.00
58.00	201.81	441.76	0.00	0.00
59.00	202.24	440.42	0.00	0.00
60.00	202.66	439.07	0.00	0.00
61.00	203.06	437.73	0.00	0.00
62.00	203.44	436.39	0.00	0.00
63.00	203.81	435.05	0.00	0.00
64.00	204.16	433.71	0.00	0.00
65.00	204.49	432.36	0.00	0.00
66.00	204.81	431.02	0.00	0.00
67.00	205.12	429.68	0.00	0.00
68.00	205.41	428.34	0.00	0.00
69.00	205.69	426.99	0.00	0.00
70.00	205.96	425.65	0.00	0.00
71.00	206.21	424.31	0.00	0.00
72.00	206.44	422.97	0.00	0.00
73.00	206.67	421.63	0.00	0.00
74.00	206.88	420.28	0.00	0.00
75.00	242.25	430.94	0.00	0.00
76.00	207.27	360.01	0.00	0.00
77.00	207.45	358.94	0.00	0.00
78.00	207.61	357.87	0.00	0.00
79.00	207.77	356.79	0.00	0.00
80.00	237.76	415.84	0.00	0.00
81.00	237.99	414.77	0.00	0.00
82.00	238.22	413.69	0.00	0.00
83.00	238.43	412.62	0.00	0.00
84.00	238.64	411.54	0.00	0.00
84.11	26.20	45.16	0.00	0.00
85.00	212.55	409.90	0.00	0.00
86.00	154.78	244.85	0.00	0.00
87.00	154.69	244.33	0.00	0.00
88.00	154.59	243.81	0.00	0.00
89.00	154.48	243.28	0.00	0.00
90.00	154.36	242.76	0.00	0.00
91.00	154.24	242.24	0.00	0.00
92.00	154.11	241.71	0.00	0.00
93.00	153.97	241.19	0.00	0.00
94.00	153.82	240.67	0.00	0.00
95.00	153.67	240.14	0.00	0.00
95.50	76.72	119.87	0.00	0.00
96.00	76.68	94.69	0.00	0.00
97.00	153.34	189.00	0.00	0.00
98.00	153.16	188.47	0.00	0.00
99.00	152.98	187.95	0.00	0.00
100.0	152.79	187.43	0.00	0.00
101.0	120.69	126.78	0.00	0.00
102.0	120.40	126.26	0.00	0.00
103.0	120.10	125.74	0.00	0.00
104.0	119.80	125.21	0.00	0.00

Pole :	302523	Code: ANSI/TIA-222 Rev G	9/21/2012 10:16:26 AM
Location :	New Milford CT 2, CT	Struct Class : II	Page: 17
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		



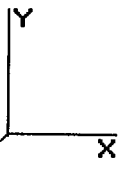
Load Case: 1.2D + 1.6W — 95.00 mph with No Ice — 29 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

105.0		119.49	124.69	0.00	0.00
106.0		119.17	124.17	0.00	0.00
107.0		118.85	123.64	0.00	0.00
108.0		118.52	123.12	0.00	0.00
109.0		118.19	122.60	0.00	0.00
110.0		2,221.18	1,508.07	0.00	0.00
111.0		89.42	92.71	0.00	0.00
112.0		89.28	92.32	0.00	0.00
113.0		89.13	91.94	0.00	0.00
114.0		88.98	91.55	0.00	0.00
115.0		88.83	91.17	0.00	0.00
116.0		88.68	90.78	0.00	0.00
117.0		88.52	90.40	0.00	0.00
118.0		88.35	90.01	0.00	0.00
119.0		88.19	89.63	0.00	0.00
120.0		88.02	89.24	0.00	0.00
121.0		87.85	88.86	0.00	0.00
122.0		87.67	88.47	0.00	0.00
123.0		87.50	88.09	0.00	0.00
124.0		96.45	87.70	0.00	0.00
125.0		95.99	87.32	0.00	0.00
126.0		95.54	86.93	0.00	0.00
127.0		95.07	86.55	0.00	0.00
128.0		94.60	86.16	0.00	0.00
129.0		94.13	85.78	0.00	0.00
130.0		2,948.14	2,165.95	0.00	2,963.53
131.0		64.20	73.20	0.00	0.00
132.0		63.79	72.81	0.00	0.00
133.0		63.37	72.43	0.00	0.00
134.0		62.94	72.04	0.00	0.00
135.0		62.52	71.66	0.00	0.00
136.0		62.09	71.27	0.00	0.00
137.0		61.65	70.89	0.00	0.00
138.0		61.22	70.50	0.00	0.00
139.0		60.78	70.12	0.00	0.00
140.0		2,289.97	2,222.53	0.00	2,425.75
141.0		59.89	59.84	0.00	0.00
142.0		59.44	59.46	0.00	0.00
143.0		58.99	59.07	0.00	0.00
144.0		58.54	58.69	0.00	0.00
145.0		58.08	58.30	0.00	0.00
146.0		57.62	57.92	0.00	0.00
147.0		57.16	57.53	0.00	0.00
148.0		56.70	57.15	0.00	0.00
149.0		56.23	56.76	0.00	0.00
150.0		2,852.85	2,766.10	0.00	8,672.20
	Totals:	32,938.77	57,266.26	0.00	14,061.48

Pole :	302523	Code: ANSI/TIA-222 Rev G	9/21/2012 10:16:26 AM
Location :	New Milford CT 2, CT	Struct Class : II	Page: 18
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		



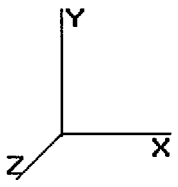
Load Case: 1.2D + 1.6W — 95.00 mph with No Ice — 29 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60
Wind 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	-57.26	-32.95	0.00	-2,902.60	0.00	2,902.60	5,589.22	2,794.61	12,188.1	6,019.28	0.00	0.00	0.493
1.00	-56.73	-32.84	0.00	-2,869.66	0.00	2,869.66	5,529.59	2,764.80	11,927.7	5,890.65	0.00	-0.02	0.498
2.00	-56.20	-32.73	0.00	-2,836.82	0.00	2,836.82	5,469.96	2,734.98	11,670.0	5,763.42	0.01	-0.04	0.503
3.00	-55.68	-32.63	0.00	-2,804.09	0.00	2,804.09	5,410.34	2,705.17	11,415.2	5,637.57	0.02	-0.05	0.508
4.00	-55.17	-32.52	0.00	-2,771.47	0.00	2,771.47	5,350.71	2,675.36	11,163.2	5,513.11	0.03	-0.07	0.513
5.00	-54.66	-32.42	0.00	-2,738.94	0.00	2,738.94	5,291.09	2,645.54	10,914.0	5,390.04	0.05	-0.09	0.519
6.00	-54.03	-32.24	0.00	-2,706.52	0.00	2,706.52	5,231.46	2,615.73	10,667.6	5,268.37	0.07	-0.11	0.524
7.00	-53.40	-32.06	0.00	-2,674.28	0.00	2,674.28	5,171.84	2,585.92	10,424.1	5,148.08	0.10	-0.13	0.530
8.00	-52.78	-31.88	0.00	-2,642.22	0.00	2,642.22	5,112.21	2,556.11	10,183.3	5,029.18	0.13	-0.15	0.536
9.00	-52.17	-31.70	0.00	-2,610.34	0.00	2,610.34	5,052.58	2,526.29	9,945.41	4,911.66	0.16	-0.17	0.542
10.00	-51.56	-31.53	0.00	-2,578.64	0.00	2,578.64	4,992.96	2,496.48	9,710.28	4,795.54	0.20	-0.20	0.548
11.00	-50.95	-31.35	0.00	-2,547.12	0.00	2,547.12	4,933.33	2,466.67	9,477.97	4,680.81	0.24	-0.22	0.555
12.00	-50.36	-31.18	0.00	-2,515.77	0.00	2,515.77	4,873.71	2,436.85	9,248.46	4,567.47	0.29	-0.24	0.561
13.00	-49.76	-31.01	0.00	-2,484.59	0.00	2,484.59	4,814.08	2,407.04	9,021.78	4,455.52	0.34	-0.26	0.568
14.00	-49.18	-30.84	0.00	-2,453.58	0.00	2,453.58	4,754.46	2,377.23	8,797.90	4,344.95	0.40	-0.29	0.575
15.00	-48.60	-30.67	0.00	-2,422.74	0.00	2,422.74	4,694.83	2,347.42	8,576.84	4,235.78	0.47	-0.31	0.582
15.00	-48.60	-30.67	0.00	-2,422.74	0.00	2,422.74	4,521.17	2,260.59	8,321.30	4,109.58	0.47	-0.31	0.600
16.00	-48.05	-30.50	0.00	-2,392.07	0.00	2,392.07	4,504.82	2,252.41	8,260.75	4,079.67	0.53	-0.34	0.597
17.00	-47.51	-30.34	0.00	-2,361.57	0.00	2,361.57	4,488.46	2,244.23	8,200.41	4,049.87	0.61	-0.36	0.594
18.00	-46.97	-30.17	0.00	-2,331.23	0.00	2,331.23	4,472.10	2,236.05	8,140.29	4,020.18	0.69	-0.39	0.591
19.00	-46.43	-30.01	0.00	-2,301.06	0.00	2,301.06	4,455.74	2,227.87	8,080.40	3,990.60	0.77	-0.42	0.587
20.00	-45.89	-29.84	0.00	-2,271.05	0.00	2,271.05	4,439.38	2,219.69	8,020.72	3,961.13	0.86	-0.44	0.584
21.00	-45.35	-29.67	0.00	-2,241.22	0.00	2,241.22	4,423.02	2,211.51	7,961.27	3,931.77	0.96	-0.47	0.580
22.00	-44.82	-29.51	0.00	-2,211.54	0.00	2,211.54	4,406.67	2,203.33	7,902.04	3,902.52	1.06	-0.50	0.577
23.00	-44.28	-29.34	0.00	-2,182.04	0.00	2,182.04	4,390.31	2,195.15	7,843.03	3,873.38	1.17	-0.52	0.574
24.00	-43.75	-29.17	0.00	-2,152.70	0.00	2,152.70	4,373.95	2,186.97	7,784.24	3,844.34	1.28	-0.55	0.570
25.00	-43.22	-29.01	0.00	-2,123.52	0.00	2,123.52	4,357.59	2,178.80	7,725.67	3,815.42	1.40	-0.58	0.567
26.00	-42.69	-28.84	0.00	-2,094.51	0.00	2,094.51	4,341.23	2,170.62	7,667.32	3,786.60	1.52	-0.60	0.563
27.00	-42.17	-28.67	0.00	-2,065.67	0.00	2,065.67	4,324.87	2,162.44	7,609.20	3,757.90	1.65	-0.63	0.560
28.00	-41.64	-28.51	0.00	-2,037.00	0.00	2,037.00	4,308.52	2,154.26	7,551.29	3,729.30	1.78	-0.65	0.556
29.00	-41.12	-28.34	0.00	-2,008.49	0.00	2,008.49	4,292.16	2,146.08	7,493.61	3,700.81	1.92	-0.68	0.552
30.00	-40.60	-28.17	0.00	-1,980.15	0.00	1,980.15	4,275.80	2,137.90	7,436.15	3,672.43	2.07	-0.71	0.549
31.00	-40.08	-28.01	0.00	-1,951.98	0.00	1,951.98	4,259.44	2,129.72	7,378.91	3,644.16	2.22	-0.73	0.545
32.00	-39.56	-27.84	0.00	-1,923.97	0.00	1,923.97	4,243.08	2,121.54	7,321.89	3,616.00	2.37	-0.76	0.542
33.00	-39.04	-27.66	0.00	-1,896.14	0.00	1,896.14	4,226.72	2,113.36	7,265.09	3,587.95	2.54	-0.78	0.538
34.00	-38.53	-27.49	0.00	-1,868.47	0.00	1,868.47	4,210.37	2,105.18	7,208.51	3,560.01	2.70	-0.81	0.534
35.00	-38.01	-27.31	0.00	-1,840.98	0.00	1,840.98	4,194.01	2,097.00	7,152.15	3,532.18	2.88	-0.83	0.530
36.00	-37.50	-27.14	0.00	-1,813.67	0.00	1,813.67	4,177.65	2,088.82	7,096.02	3,504.46	3.05	-0.86	0.527
37.00	-36.99	-26.96	0.00	-1,786.53	0.00	1,786.53	4,161.29	2,080.65	7,040.10	3,476.84	3.24	-0.88	0.523
38.00	-36.48	-26.78	0.00	-1,759.57	0.00	1,759.57	4,144.93	2,072.47	6,984.41	3,449.34	3.42	-0.91	0.519
39.00	-35.98	-26.60	0.00	-1,732.79	0.00	1,732.79	4,128.57	2,064.29	6,928.94	3,421.94	3.62	-0.93	0.515
40.00	-35.47	-26.42	0.00	-1,706.19	0.00	1,706.19	4,112.22	2,056.11	6,873.69	3,394.66	3.82	-0.96	0.511
41.00	-34.97	-26.23	0.00	-1,679.78	0.00	1,679.78	4,095.86	2,047.93	6,818.66	3,367.48	4.02	-0.99	0.508
42.00	-34.47	-26.05	0.00	-1,653.54	0.00	1,653.54	4,079.50	2,039.75	6,763.85	3,340.41	4.23	-1.01	0.504
43.00	-33.97	-25.86	0.00	-1,627.49	0.00	1,627.49	4,063.14	2,031.57	6,709.27	3,313.46	4.44	-1.03	0.500
44.00	-33.47	-25.68	0.00	-1,601.63	0.00	1,601.63	4,046.78	2,023.39	6,654.90	3,286.61	4.66	-1.06	0.496
45.00	-32.97	-25.49	0.00	-1,575.95	0.00	1,575.95	4,030.42	2,015.21	6,600.76	3,259.87	4.89	-1.08	0.492
46.00	-32.48	-25.30	0.00	-1,550.46	0.00	1,550.46	4,014.07	2,007.03	6,546.84	3,233.24	5.12	-1.11	0.488
47.00	-31.99	-25.11	0.00	-1,525.17	0.00	1,525.17	3,997.71	1,998.85	6,493.13	3,206.71	5.35	-1.13	0.484
48.00	-31.49	-24.92	0.00	-1,500.06	0.00	1,500.06	3,981.35	1,990.67	6,439.65	3,180.30	5.59	-1.16	0.480
49.00	-31.01	-24.72	0.00	-1,475.14	0.00	1,475.14	3,964.99	1,982.50	6,386.39	3,154.00	5.84	-1.18	0.476

Pole :	302523	Code: ANSI/TIA-222 Rev G	9/21/2012 10:16:27 AM
Location :	New Milford CT 2, CT	Struct Class : II	Page: 19
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		



Load Case: 1.2D + 1.6W — 95.00 mph with No Ice — 29 Iterations

Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

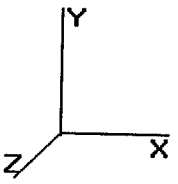
Dead Load Factor : 1.20

Wind Load Factor : 1.60

50.00	-30.52	-24.53	0.00	-1,450.42	0.00	1,450.42	3,948.63	1,974.32	6,333.36	3,127.81	6.09	-1.21	0.472
51.00	-30.03	-24.33	0.00	-1,425.89	0.00	1,425.89	3,932.27	1,966.14	6,280.54	3,101.72	6.34	-1.23	0.467
52.00	-29.55	-24.14	0.00	-1,401.56	0.00	1,401.56	3,915.92	1,957.96	6,227.94	3,075.75	6.60	-1.25	0.463
53.00	-29.06	-23.94	0.00	-1,377.42	0.00	1,377.42	3,899.56	1,949.78	6,175.57	3,049.88	6.87	-1.28	0.459
54.00	-28.58	-23.74	0.00	-1,353.48	0.00	1,353.48	3,883.20	1,941.60	6,123.42	3,024.13	7.14	-1.30	0.455
55.00	-28.10	-23.55	0.00	-1,329.73	0.00	1,329.73	3,866.84	1,933.42	6,071.48	2,998.48	7.41	-1.32	0.451
55.00	-28.10	-23.55	0.00	-1,329.73	0.00	1,329.73	3,220.97	1,610.49	5,114.03	2,525.63	7.41	-1.32	0.535
56.00	-27.65	-23.35	0.00	-1,306.19	0.00	1,306.19	3,207.40	1,603.70	5,070.70	2,504.23	7.69	-1.35	0.530
57.00	-27.21	-23.15	0.00	-1,282.84	0.00	1,282.84	3,193.84	1,596.92	5,027.55	2,482.92	7.98	-1.37	0.525
58.00	-26.76	-22.94	0.00	-1,259.70	0.00	1,259.70	3,180.27	1,590.13	4,984.58	2,461.70	8.27	-1.40	0.520
59.00	-26.31	-22.74	0.00	-1,236.75	0.00	1,236.75	3,166.70	1,583.35	4,941.80	2,440.57	8.57	-1.42	0.515
60.00	-25.87	-22.54	0.00	-1,214.01	0.00	1,214.01	3,153.13	1,576.57	4,899.21	2,419.54	8.87	-1.45	0.510
61.00	-25.43	-22.34	0.00	-1,191.47	0.00	1,191.47	3,139.57	1,569.78	4,856.80	2,398.59	9.17	-1.47	0.505
62.00	-24.99	-22.13	0.00	-1,169.13	0.00	1,169.13	3,126.00	1,563.00	4,814.57	2,377.74	9.48	-1.50	0.500
63.00	-24.55	-21.93	0.00	-1,147.00	0.00	1,147.00	3,112.43	1,556.21	4,772.53	2,356.97	9.80	-1.52	0.495
64.00	-24.11	-21.72	0.00	-1,125.07	0.00	1,125.07	3,098.86	1,549.43	4,730.67	2,336.30	10.12	-1.54	0.490
65.00	-23.68	-21.52	0.00	-1,103.35	0.00	1,103.35	3,085.29	1,542.65	4,689.00	2,315.72	10.45	-1.57	0.484
66.00	-23.24	-21.31	0.00	-1,081.83	0.00	1,081.83	3,071.73	1,535.86	4,647.51	2,295.23	10.78	-1.59	0.479
67.00	-22.81	-21.10	0.00	-1,060.53	0.00	1,060.53	3,058.16	1,529.08	4,606.20	2,274.83	11.11	-1.61	0.474
68.00	-22.38	-20.89	0.00	-1,039.42	0.00	1,039.42	3,044.59	1,522.30	4,565.08	2,254.52	11.45	-1.64	0.469
69.00	-21.95	-20.68	0.00	-1,018.53	0.00	1,018.53	3,031.02	1,515.51	4,524.15	2,234.31	11.80	-1.66	0.463
70.00	-21.52	-20.47	0.00	-997.85	0.00	997.85	3,017.46	1,508.73	4,483.40	2,214.18	12.15	-1.68	0.458
71.00	-21.10	-20.26	0.00	-977.37	0.00	977.37	3,003.89	1,501.94	4,442.83	2,194.15	12.50	-1.71	0.453
72.00	-20.67	-20.05	0.00	-957.11	0.00	957.11	2,990.32	1,495.16	4,402.45	2,174.20	12.86	-1.73	0.447
73.00	-20.25	-19.84	0.00	-937.06	0.00	937.06	2,976.75	1,488.38	4,362.25	2,154.35	13.23	-1.75	0.442
74.00	-19.83	-19.63	0.00	-917.22	0.00	917.22	2,963.19	1,481.59	4,322.24	2,134.59	13.60	-1.77	0.437
75.00	-19.40	-19.38	0.00	-897.59	0.00	897.59	2,949.62	1,474.81	4,282.41	2,114.92	13.97	-1.80	0.431
75.00	-19.40	-19.38	0.00	-897.59	0.00	897.59	2,628.21	1,314.11	3,842.67	1,897.75	13.97	-1.80	0.481
76.00	-19.04	-19.17	0.00	-878.21	0.00	878.21	2,616.17	1,308.08	3,807.28	1,880.27	14.35	-1.82	0.475
77.00	-18.68	-18.96	0.00	-859.03	0.00	859.03	2,604.12	1,302.06	3,772.05	1,862.87	14.73	-1.84	0.469
78.00	-18.32	-18.75	0.00	-840.07	0.00	840.07	2,592.07	1,296.04	3,736.99	1,845.56	15.12	-1.87	0.462
79.00	-17.96	-18.54	0.00	-821.32	0.00	821.32	2,580.03	1,290.01	3,702.09	1,828.32	15.52	-1.90	0.456
80.00	-17.54	-18.30	0.00	-802.78	0.00	802.78	2,567.98	1,283.99	3,667.36	1,811.17	15.92	-1.92	0.450
81.00	-17.13	-18.05	0.00	-784.49	0.00	784.49	2,555.93	1,277.97	3,632.78	1,794.10	16.33	-1.95	0.444
82.00	-16.71	-17.81	0.00	-766.44	0.00	766.44	2,543.88	1,271.94	3,598.38	1,777.10	16.74	-1.98	0.438
83.00	-16.30	-17.56	0.00	-748.63	0.00	748.63	2,531.84	1,265.92	3,564.13	1,760.19	17.15	-2.00	0.432
84.00	-15.89	-17.31	0.00	-731.07	0.00	731.07	2,519.79	1,259.89	3,530.05	1,743.36	17.58	-2.03	0.426
84.11	-15.85	-17.29	0.00	-729.17	0.00	729.17	2,518.47	1,259.23	3,526.32	1,741.52	17.62	-2.03	0.425
85.00	-15.44	-17.07	0.00	-713.78	0.00	713.78	2,507.74	1,253.87	3,496.14	1,726.61	18.00	-2.05	0.266
85.00	-15.44	-17.07	0.00	-713.78	0.00	713.78	1,414.25	707.13	1,455.35	718.74	18.00	-2.05	0.258
86.00	-15.19	-16.91	0.00	-696.71	0.00	696.71	1,408.59	704.29	1,440.18	711.25	18.43	-2.07	0.334
87.00	-14.94	-16.76	0.00	-679.80	0.00	679.80	1,402.88	701.44	1,425.06	703.78	18.87	-2.11	0.327
88.00	-14.69	-16.61	0.00	-663.04	0.00	663.04	1,397.13	698.56	1,409.96	696.33	19.32	-2.15	0.320
89.00	-14.44	-16.45	0.00	-646.44	0.00	646.44	1,391.33	695.67	1,394.89	688.89	19.77	-2.19	0.313
90.00	-14.19	-16.30	0.00	-629.99	0.00	629.99	1,385.49	692.75	1,379.86	681.46	20.24	-2.23	0.306
91.00	-13.95	-16.14	0.00	-613.69	0.00	613.69	1,379.61	689.81	1,364.87	674.06	20.71	-2.27	0.299
92.00	-13.70	-15.99	0.00	-597.54	0.00	597.54	1,373.69	686.84	1,349.91	666.67	21.19	-2.31	0.292
93.00	-13.45	-15.84	0.00	-581.55	0.00	581.55	1,367.72	683.86	1,334.99	659.30	21.68	-2.35	0.285
94.00	-13.21	-15.68	0.00	-565.72	0.00	565.72	1,361.71	680.85	1,320.10	651.95	22.18	-2.39	0.278
95.00	-12.97	-15.52	0.00	-550.04	0.00	550.04	1,355.66	677.83	1,305.26	644.62	22.68	-2.42	0.271
95.50	-12.85	-15.45	0.00	-542.28	0.00	542.28	1,352.61	676.31	1,297.85	640.96	22.93	-2.44	0.268
95.50	-12.85	-15.45	0.00	-542.28	0.00	542.28	1,352.61	676.31	1,297.85	640.96	22.93	-2.44	0.856
96.00	-12.74	-15.38	0.00	-534.56	0.00	534.56	1,349.56	674.78	1,290.45	637.30	23.19	-2.46	0.849
97.00	-12.53	-15.24	0.00	-519.18	0.00	519.18	1,343.42	671.71	1,275.68	630.01	23.72	-2.58	0.834
98.00	-12.31	-15.11	0.00	-503.93	0.00	503.93	1,337.24	668.62	1,260.95	622.74	24.27	-2.69	0.819
99.00	-12.10	-14.97	0.00	-488.83	0.00	488.83	1,331.01	665.51	1,246.27	615.49	24.85	-2.81	0.804
100.00	-11.90	-14.83	0.00	-473.86	0.00	473.86	1,324.75	662.37	1,231.63	608.25	25.45	-2.92	0.789

Pole : 302523
Location : New Milford CT 2, CT
Height : 150.0 (ft)
Base Dia : 53.90 (in)
Top Dia : 15.00 (in)
Shape : 12 Sides
Taper : 0.156700 (in/ft)

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



Load Case: 1.2D + 1.6W — 95.00 mph with No Ice

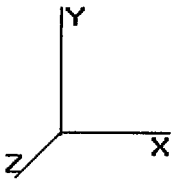
29 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

101.00	-11.75	-14.73	0.00	-459.03	0.00	459.03	1,318.44	659.22	1,217.03	601.04	26.07	-3.03	0.773
102.00	-11.60	-14.62	0.00	-444.30	0.00	444.30	1,312.08	656.04	1,202.47	593.86	26.72	-3.14	0.758
103.00	-11.45	-14.52	0.00	-429.68	0.00	429.68	1,305.69	652.84	1,187.96	586.69	27.39	-3.25	0.742
104.00	-11.31	-14.41	0.00	-415.17	0.00	415.17	1,299.25	649.62	1,173.50	579.55	28.08	-3.36	0.726
105.00	-11.16	-14.30	0.00	-400.76	0.00	400.76	1,293.29	646.65	1,159.56	572.66	28.79	-3.47	0.709
106.00	-11.02	-14.20	0.00	-386.45	0.00	386.45	1,283.85	641.92	1,142.58	564.28	29.53	-3.57	0.694
107.00	-10.88	-14.09	0.00	-372.26	0.00	372.26	1,274.40	637.20	1,125.74	555.96	30.29	-3.67	0.679
108.00	-10.74	-13.98	0.00	-358.16	0.00	358.16	1,264.95	632.48	1,109.01	547.70	31.07	-3.78	0.663
109.00	-10.60	-13.88	0.00	-344.18	0.00	344.18	1,255.51	627.75	1,092.42	539.50	31.87	-3.88	0.647
110.00	-9.23	-11.57	0.00	-330.31	0.00	330.31	1,246.06	623.03	1,075.94	531.37	32.69	-3.98	0.629
110.00	-9.23	-11.57	0.00	-330.31	0.00	330.31	852.83	426.42	740.79	365.85	32.69	-3.98	0.914
111.00	-9.12	-11.50	0.00	-318.73	0.00	318.73	849.27	424.64	732.18	361.60	33.54	-4.07	0.893
112.00	-9.01	-11.42	0.00	-307.24	0.00	307.24	845.67	422.84	723.58	357.35	34.40	-4.20	0.871
113.00	-8.90	-11.34	0.00	-295.82	0.00	295.82	842.03	421.01	714.99	353.11	35.30	-4.32	0.849
114.00	-8.79	-11.27	0.00	-284.48	0.00	284.48	838.34	419.17	706.41	348.87	36.21	-4.45	0.827
115.00	-8.69	-11.19	0.00	-273.21	0.00	273.21	834.62	417.31	697.84	344.64	37.16	-4.57	0.804
116.00	-8.58	-11.11	0.00	-262.02	0.00	262.02	830.85	415.43	689.29	340.42	38.13	-4.69	0.781
117.00	-8.47	-11.03	0.00	-250.91	0.00	250.91	827.04	413.52	680.76	336.20	39.12	-4.80	0.757
118.00	-8.37	-10.95	0.00	-239.88	0.00	239.88	823.19	411.60	672.24	331.99	40.14	-4.92	0.733
119.00	-8.27	-10.87	0.00	-228.93	0.00	228.93	819.30	409.65	663.73	327.79	41.18	-5.03	0.709
120.00	-8.17	-10.79	0.00	-218.06	0.00	218.06	815.37	407.68	655.25	323.60	42.24	-5.14	0.685
121.00	-8.07	-10.71	0.00	-207.27	0.00	207.27	811.40	405.70	646.78	319.42	43.33	-5.24	0.660
122.00	-7.97	-10.63	0.00	-196.55	0.00	196.55	807.38	403.69	638.33	315.25	44.43	-5.34	0.634
123.00	-7.87	-10.55	0.00	-185.92	0.00	185.92	803.32	401.66	629.90	311.09	45.56	-5.44	0.608
124.00	-7.78	-10.46	0.00	-175.38	0.00	175.38	799.23	399.61	621.49	306.93	46.71	-5.54	0.582
125.00	-7.68	-10.37	0.00	-164.92	0.00	164.92	795.09	397.54	613.11	302.79	47.88	-5.63	0.555
126.00	-7.59	-10.27	0.00	-154.55	0.00	154.55	790.91	395.45	604.74	298.66	49.07	-5.72	0.528
127.00	-7.50	-10.18	0.00	-144.28	0.00	144.28	786.69	393.34	596.40	294.54	50.28	-5.81	0.500
128.00	-7.41	-10.09	0.00	-134.10	0.00	134.10	782.42	391.21	588.08	290.43	51.50	-5.89	0.472
129.00	-7.32	-10.00	0.00	-124.01	0.00	124.01	778.12	389.06	579.79	286.34	52.74	-5.97	0.443
130.00	-5.46	-6.84	0.00	-111.05	0.00	111.05	773.77	386.89	571.52	282.25	54.00	-6.05	0.401
131.00	-5.39	-6.78	0.00	-104.21	0.00	104.21	769.39	384.69	563.28	278.18	55.27	-6.11	0.382
132.00	-5.32	-6.71	0.00	-97.43	0.00	97.43	764.96	382.48	555.06	274.13	56.56	-6.18	0.363
133.00	-5.24	-6.65	0.00	-90.72	0.00	90.72	760.49	380.24	546.88	270.08	57.86	-6.24	0.343
134.00	-5.17	-6.58	0.00	-84.07	0.00	84.07	755.98	377.99	538.72	266.05	59.17	-6.30	0.323
135.00	-5.10	-6.52	0.00	-77.48	0.00	77.48	751.42	375.71	530.59	262.04	60.49	-6.36	0.303
136.00	-5.03	-6.45	0.00	-70.97	0.00	70.97	746.83	373.41	522.49	258.04	61.83	-6.42	0.282
137.00	-4.96	-6.39	0.00	-64.51	0.00	64.51	742.19	371.10	514.42	254.05	63.17	-6.47	0.261
138.00	-4.90	-6.32	0.00	-58.12	0.00	58.12	737.52	368.76	506.39	250.09	64.53	-6.51	0.239
139.00	-4.83	-6.26	0.00	-51.80	0.00	51.80	732.80	366.40	498.39	246.13	65.90	-6.56	0.217
140.00	-2.88	-3.73	0.00	-43.12	0.00	43.12	728.04	364.02	490.42	242.20	67.27	-6.60	0.182
141.00	-2.83	-3.67	0.00	-39.38	0.00	39.38	721.77	360.89	481.50	237.80	68.66	-6.63	0.170
142.00	-2.77	-3.60	0.00	-35.72	0.00	35.72	714.82	357.41	472.22	233.21	70.05	-6.66	0.157
143.00	-2.72	-3.54	0.00	-32.12	0.00	32.12	707.87	353.93	463.02	228.67	71.44	-6.70	0.144
144.00	-2.66	-3.47	0.00	-28.58	0.00	28.58	700.91	350.46	453.92	224.17	72.84	-6.72	0.131
145.00	-2.61	-3.41	0.00	-25.10	0.00	25.10	693.96	346.98	444.90	219.72	74.25	-6.75	0.118
146.00	-2.56	-3.35	0.00	-21.69	0.00	21.69	687.01	343.50	435.98	215.31	75.66	-6.77	0.105
147.00	-2.51	-3.29	0.00	-18.34	0.00	18.34	680.05	340.03	427.15	210.95	77.08	-6.79	0.091
148.00	-2.46	-3.22	0.00	-15.06	0.00	15.06	673.10	336.55	418.40	206.63	78.50	-6.81	0.077
149.00	-2.41	-3.16	0.00	-11.83	0.00	11.83	666.15	333.07	409.75	202.36	79.93	-6.82	0.062
150.00	0.00	-2.85	0.00	-8.67	0.00	8.67	659.19	329.60	401.19	198.13	81.35	-6.83	0.044

Pole : 302523	Code: ANSI/TIA-222 Rev G		9/21/2012 10:16:27 AM
Location : New Milford CT 2, CT	Struct Class : II		Page: 21
Height : 150.0 (ft)	Exposure Category : B		
Base Dia : 53.90 (in)	Topographic Category : 1		
Top Dia : 15.00 (in)	Base Elev : 0.000 (ft)		
Shape : 12 Sides			
Taper : 0.156700 (in/ft)			



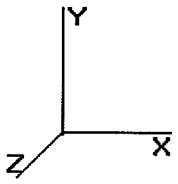
Load Case: 0.9D + 1.6W — 95.00 mph with No Ice (Reduced DL) — 29 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60
Wind Importance 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)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	15.364	16.90	369.60	1.000	0.000	0.00	0.000	0.00	0.0	0.0	0.0
1.00		1.00	0.70	15.364	16.90	365.71	1.000	0.000	1.00	4.626	4.63	125.1	0.0	391.0
2.00		1.00	0.70	15.364	16.90	361.82	1.000	0.000	1.00	4.577	4.58	123.8	0.0	386.8
3.00		1.00	0.70	15.364	16.90	357.93	1.000	0.000	1.00	4.528	4.53	122.4	0.0	382.6
4.00		1.00	0.70	15.364	16.90	354.05	1.000	0.000	1.00	4.479	4.48	121.1	0.0	378.4
5.00		1.00	0.70	15.364	16.90	350.16	1.000	0.000	1.00	4.430	4.43	119.8	0.0	374.2
6.00		1.00	0.70	15.364	16.90	346.27	1.200 *	0.000	1.00	4.381	5.26	142.2	0.0	370.0
7.00		1.00	0.70	15.364	16.90	342.38	1.200 *	0.000	1.00	4.332	5.20	140.6	0.0	365.8
8.00		1.00	0.70	15.364	16.90	338.49	1.200 *	0.000	1.00	4.283	5.14	139.0	0.0	361.6
9.00		1.00	0.70	15.364	16.90	334.60	1.200 *	0.000	1.00	4.234	5.08	137.4	0.0	357.4
10.00		1.00	0.70	15.364	16.90	330.72	1.200 *	0.000	1.00	4.185	5.02	135.8	0.0	353.3
11.00		1.00	0.70	15.364	16.90	326.83	1.200 *	0.000	1.00	4.136	4.96	134.2	0.0	349.1
12.00		1.00	0.70	15.364	16.90	322.94	1.200 *	0.000	1.00	4.088	4.91	132.6	0.0	344.9
13.00		1.00	0.70	15.364	16.90	319.05	1.200 *	0.000	1.00	4.039	4.85	131.0	0.0	340.7
14.00		1.00	0.70	15.364	16.90	315.16	1.200 *	0.000	1.00	3.990	4.79	129.5	0.0	336.5
15.00	Top - Section 1	1.00	0.70	15.364	16.90	311.28	1.200 *	0.000	1.00	3.941	4.73	127.9	0.0	332.3
16.00		1.00	0.70	15.364	16.90	311.57	1.200 *	0.000	1.00	3.927	4.71	127.4	0.0	303.9
17.00		1.00	0.70	15.364	16.90	310.45	1.200 *	0.000	1.00	3.913	4.70	127.0	0.0	302.8
18.00		1.00	0.70	15.364	16.90	309.34	1.200 *	0.000	1.00	3.899	4.68	126.5	0.0	301.7
19.00		1.00	0.70	15.364	16.90	308.23	1.200 *	0.000	1.00	3.885	4.66	126.1	0.0	300.6
20.00		1.00	0.70	15.364	16.90	307.11	1.200 *	0.000	1.00	3.871	4.65	125.6	0.0	299.5
21.00		1.00	0.70	15.364	16.90	306.00	1.200 *	0.000	1.00	3.857	4.63	125.2	0.0	298.4
22.00		1.00	0.70	15.364	16.90	304.88	1.200 *	0.000	1.00	3.843	4.61	124.7	0.0	297.3
23.00		1.00	0.70	15.364	16.90	303.77	1.200 *	0.000	1.00	3.829	4.59	124.2	0.0	296.2
24.00		1.00	0.70	15.364	16.90	302.65	1.200 *	0.000	1.00	3.815	4.58	123.8	0.0	295.1
25.00		1.00	0.70	15.364	16.90	301.54	1.200 *	0.000	1.00	3.801	4.56	123.3	0.0	294.0
26.00		1.00	0.70	15.364	16.90	300.43	1.200 *	0.000	1.00	3.787	4.54	122.9	0.0	292.9
27.00		1.00	0.70	15.364	16.90	299.31	1.200 *	0.000	1.00	3.773	4.53	122.4	0.0	291.8
28.00		1.00	0.70	15.364	16.90	298.20	1.200 *	0.000	1.00	3.759	4.51	122.0	0.0	290.7
29.00		1.00	0.70	15.364	16.90	297.08	1.200 *	0.000	1.00	3.745	4.49	121.5	0.0	289.6
30.00		1.00	0.70	15.377	16.91	296.09	1.200 *	0.000	1.00	3.731	4.48	121.2	0.0	288.5
31.00		1.00	0.70	15.522	17.07	296.36	1.200 *	0.000	1.00	3.717	4.46	121.8	0.0	287.4
32.00		1.00	0.71	15.663	17.23	296.59	1.200 *	0.000	1.00	3.703	4.44	122.5	0.0	286.3
33.00		1.00	0.72	15.802	17.38	296.76	1.200 *	0.000	1.00	3.689	4.43	123.1	0.0	285.2
34.00		1.00	0.72	15.937	17.53	296.90	1.200 *	0.000	1.00	3.675	4.41	123.7	0.0	284.1
35.00		1.00	0.73	16.070	17.67	296.99	1.200 *	0.000	1.00	3.661	4.39	124.2	0.0	283.0
36.00		1.00	0.73	16.199	17.81	297.04	1.200 *	0.000	1.00	3.647	4.38	124.8	0.0	281.9
37.00		1.00	0.74	16.327	17.95	297.06	1.200 *	0.000	1.00	3.633	4.36	125.3	0.0	280.8
38.00		1.00	0.75	16.452	18.09	297.04	1.200 *	0.000	1.00	3.619	4.34	125.7	0.0	279.7
39.00		1.00	0.75	16.574	18.23	296.99	1.200 *	0.000	1.00	3.605	4.33	126.2	0.0	278.6
40.00		1.00	0.76	16.694	18.36	296.90	1.200 *	0.000	1.00	3.591	4.31	126.6	0.0	277.5
41.00		1.00	0.76	16.813	18.49	296.78	1.200 *	0.000	1.00	3.577	4.29	127.0	0.0	276.4
42.00		1.00	0.77	16.929	18.62	296.64	1.200 *	0.000	1.00	3.563	4.28	127.4	0.0	275.3
43.00		1.00	0.77	17.043	18.74	296.46	1.200 *	0.000	1.00	3.548	4.26	127.7	0.0	274.2
44.00		1.00	0.78	17.155	18.87	296.26	1.200 *	0.000	1.00	3.534	4.24	128.1	0.0	273.1
45.00		1.00	0.78	17.266	18.99	296.03	1.200 *	0.000	1.00	3.520	4.22	128.4	0.0	272.0
46.00		1.00	0.79	17.375	19.11	295.78	1.200 *	0.000	1.00	3.506	4.21	128.7	0.0	270.9
47.00		1.00	0.79	17.482	19.23	295.50	1.200 *	0.000	1.00	3.492	4.19	128.9	0.0	269.8
48.00		1.00	0.80	17.587	19.34	295.20	1.200 *	0.000	1.00	3.478	4.17	129.2	0.0	268.7
49.00		1.00	0.80	17.691	19.46	294.87	1.200 *	0.000	1.00	3.464	4.16	129.4	0.0	267.6
50.00		1.00	0.81	17.793	19.57	294.53	1.200 *	0.000	1.00	3.450	4.14	129.7	0.0	266.5

Pole : 302523	Code: ANSI/TIA-222 Rev G		9/21/2012 10:16:27 AM
Location : New Milford CT 2, CT	Struct Class : II		Page: 22
Height : 150.0 (ft)	Exposure Category : B		
Base Dia : 53.90 (in)	Topographic Category : 1		
Top Dia : 15.00 (in)	Base Elev : 0.000 (ft)		
Shape : 12 Sides			
Taper : 0.156700 (in/ft)			



Load Case: 0.9D + 1.6W — 95.00 mph with No Ice (Reduced DL) — 29 Iterations

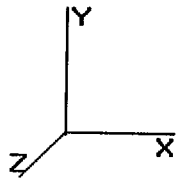
Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

51.00		1.00	0.81	17.894	19.68	294.16	1.200 *	0.000	1.00	3.436	4.12	129.9	0.0	265.4
52.00		1.00	0.82	17.994	19.79	293.77	1.200 *	0.000	1.00	3.422	4.11	130.1	0.0	264.3
53.00		1.00	0.82	18.092	19.90	293.36	1.200 *	0.000	1.00	3.408	4.09	130.2	0.0	263.2
54.00		1.00	0.82	18.189	20.00	292.93	1.200 *	0.000	1.00	3.394	4.07	130.4	0.0	262.1
55.00	Top - Section 2	1.00	0.83	18.285	20.11	292.49	1.200 *	0.000	1.00	3.380	4.06	130.5	0.0	261.0
56.00		1.00	0.83	18.379	20.21	294.26	1.200 *	0.000	1.00	3.392	4.07	131.7	0.0	238.5
57.00		1.00	0.84	18.472	20.31	293.78	1.200 *	0.000	1.00	3.378	4.05	131.8	0.0	237.5
58.00		1.00	0.84	18.564	20.42	293.28	1.200 *	0.000	1.00	3.364	4.04	131.9	0.0	236.5
59.00		1.00	0.85	18.655	20.52	292.76	1.200 *	0.000	1.00	3.350	4.02	132.0	0.0	235.5
60.00		1.00	0.85	18.745	20.61	292.23	1.200 *	0.000	1.00	3.336	4.00	132.1	0.0	234.4
61.00		1.00	0.85	18.834	20.71	291.68	1.200 *	0.000	1.00	3.322	3.99	132.1	0.0	233.4
62.00		1.00	0.86	18.921	20.81	291.12	1.200 *	0.000	1.00	3.308	3.97	132.2	0.0	232.4
63.00		1.00	0.86	19.008	20.90	290.54	1.200 *	0.000	1.00	3.293	3.95	132.2	0.0	231.4
64.00		1.00	0.87	19.094	21.00	289.94	1.200 *	0.000	1.00	3.279	3.94	132.2	0.0	230.4
65.00		1.00	0.87	19.179	21.09	289.33	1.200 *	0.000	1.00	3.265	3.92	132.3	0.0	229.4
66.00		1.00	0.87	19.262	21.18	288.71	1.200 *	0.000	1.00	3.251	3.90	132.3	0.0	228.4
67.00		1.00	0.88	19.345	21.28	288.08	1.200 *	0.000	1.00	3.237	3.88	132.3	0.0	227.4
68.00		1.00	0.88	19.427	21.37	287.43	1.200 *	0.000	1.00	3.223	3.87	132.2	0.0	226.4
69.00		1.00	0.88	19.509	21.45	286.77	1.200 *	0.000	1.00	3.209	3.85	132.2	0.0	225.4
70.00		1.00	0.89	19.589	21.54	286.09	1.200 *	0.000	1.00	3.195	3.83	132.2	0.0	224.4
71.00		1.00	0.89	19.669	21.63	285.40	1.200 *	0.000	1.00	3.181	3.82	132.1	0.0	223.4
72.00		1.00	0.90	19.747	21.72	284.70	1.200 *	0.000	1.00	3.167	3.80	132.1	0.0	222.4
73.00		1.00	0.90	19.825	21.80	283.99	1.200 *	0.000	1.00	3.153	3.78	132.0	0.0	221.4
74.00		1.00	0.90	19.902	21.89	283.27	1.200 *	0.000	1.00	3.138	3.77	131.9	0.0	220.4
75.00	Top - Section 3	1.00	0.91	19.979	21.97	282.54	1.200 *	0.000	1.00	3.124	3.75	131.8	0.0	219.3
76.00		1.00	0.91	20.055	22.06	281.79	1.200 *	0.000	1.00	3.110	3.73	131.7	0.0	175.3
77.00		1.00	0.91	20.130	22.14	281.04	1.200 *	0.000	1.00	3.096	3.72	131.6	0.0	174.5
78.00		1.00	0.92	20.204	22.22	280.27	1.200 *	0.000	1.00	3.082	3.70	131.5	0.0	173.7
79.00		1.00	0.92	20.278	22.30	279.50	1.200 *	0.000	1.00	3.068	3.68	131.4	0.0	172.9
80.00		1.00	0.92	20.351	22.38	278.71	1.200 *	0.000	1.00	3.054	3.66	131.3	0.0	172.1
81.00		1.00	0.93	20.423	22.46	277.91	1.200 *	0.000	1.00	3.040	3.65	131.1	0.0	171.3
82.00		1.00	0.93	20.495	22.54	277.11	1.200 *	0.000	1.00	3.026	3.63	131.0	0.0	170.5
83.00		1.00	0.93	20.566	22.62	276.29	1.200 *	0.000	1.00	3.012	3.61	130.8	0.0	169.7
84.00		1.00	0.94	20.636	22.70	275.47	1.200 *	0.000	1.00	2.998	3.60	130.6	0.0	168.8
84.11	Reinf Bottom	1.00	0.94	20.644	22.70	275.38	1.200 *	0.000	0.11	0.329	0.39	14.3	0.0	18.5
85.00	Top - Section 4	1.00	0.94	20.706	22.77	274.63	1.200 *	0.000	0.89	2.655	3.19	116.1	0.0	194.1
86.00		1.00	0.94	20.776	22.85	199.91	1.200 *	0.000	1.00	2.170	2.60	95.2	0.0	111.5
87.00		1.00	0.95	20.844	22.92	198.97	1.200 *	0.000	1.00	2.156	2.59	94.9	0.0	111.1
88.00		1.00	0.95	20.913	23.00	198.02	1.200 *	0.000	1.00	2.142	2.57	94.6	0.0	110.7
89.00		1.00	0.95	20.980	23.07	197.06	1.200 *	0.000	1.00	2.129	2.55	94.3	0.0	110.3
90.00		1.00	0.95	21.047	23.15	196.10	1.200 *	0.000	1.00	2.115	2.54	94.0	0.0	109.9
91.00		1.00	0.96	21.114	23.22	195.13	1.200 *	0.000	1.00	2.101	2.52	93.7	0.0	109.5
92.00		1.00	0.96	21.180	23.29	194.15	1.200 *	0.000	1.00	2.087	2.50	93.4	0.0	109.1
93.00		1.00	0.96	21.245	23.37	193.17	1.200 *	0.000	1.00	2.074	2.49	93.0	0.0	108.7
94.00		1.00	0.97	21.310	23.44	192.18	1.200 *	0.000	1.00	2.060	2.47	92.7	0.0	108.3
95.00		1.00	0.97	21.375	23.51	191.18	1.200 *	0.000	1.00	2.046	2.46	92.4	0.0	108.0
95.50	Reinf. Top	1.00	0.97	21.407	23.54	190.68	1.200 *	0.000	0.50	1.018	1.22	46.0	0.0	53.8
96.00		1.00	0.97	21.439	23.58	190.18	1.200 *	0.000	0.50	1.015	1.22	45.9	0.0	28.7
97.00		1.00	0.98	21.503	23.65	189.17	1.200 *	0.000	1.00	2.019	2.42	91.7	0.0	57.1
98.00		1.00	0.98	21.566	23.72	188.15	1.200 *	0.000	1.00	2.005	2.41	91.3	0.0	56.7
99.00		1.00	0.98	21.628	23.79	187.13	1.200 *	0.000	1.00	1.991	2.39	91.0	0.0	56.3
100.0		1.00	0.98	21.690	23.86	186.10	1.200 *	0.000	1.00	1.978	2.37	90.6	0.0	55.9
101.0		1.00	0.99	21.752	23.92	185.07	1.200 *	0.000	1.00	1.964	2.36	90.2	0.0	55.5
102.0		1.00	0.99	21.814	23.99	184.03	1.200 *	0.000	1.00	1.950	2.34	89.8	0.0	55.1
103.0		1.00	0.99	21.874	24.06	182.98	1.200 *	0.000	1.00	1.936	2.32	89.5	0.0	54.7
104.0		1.00	0.99	21.935	24.12	181.93	1.200 *	0.000	1.00	1.923	2.31	89.1	0.0	54.3
105.0		1.00	1.00	21.995	24.19	180.87	1.200 *	0.000	1.00	1.909	2.29	88.7	0.0	53.9

Pole : 302523
Location : New Milford CT 2, CT
Height : 150.0 (ft)
Base Dia : 53.90 (in)
Top Dia : 15.00 (in)
Shape : 12 Sides
Taper : 0.156700 (in/ft)

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



Load Case: 0.9D + 1.6W — 95.00 mph with No Ice (Reduced DL) — 29 Iterations

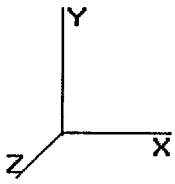
Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

106.0		1.00	1.00	22.055	24.26	179.81	1.200 *	0.000	1.00	1.895	2.27	88.3	0.0	53.5
107.0		1.00	1.00	22.114	24.32	178.74	1.200 *	0.000	1.00	1.881	2.26	87.9	0.0	53.1
108.0		1.00	1.01	22.173	24.39	177.67	1.200 *	0.000	1.00	1.868	2.24	87.5	0.0	52.8
109.0		1.00	1.01	22.231	24.45	176.59	1.200 *	0.000	1.00	1.854	2.22	87.0	0.0	52.4
110.0	Top - Section 5	1.00	1.01	22.289	24.51	175.50	1.200 *	0.000	1.00	1.840	2.21	86.6	0.0	52.0
111.0		1.00	1.01	22.347	24.58	174.44	1.000 *	0.000	1.00	1.827	1.83	71.8	0.0	38.8
112.0		1.00	1.02	22.404	24.64	173.37	1.000 *	0.000	1.00	1.813	1.81	71.5	0.0	38.5
113.0		1.00	1.02	22.461	24.70	172.29	1.000 *	0.000	1.00	1.800	1.80	71.1	0.0	38.2
114.0		1.00	1.02	22.518	24.77	171.21	1.000 *	0.000	1.00	1.786	1.79	70.8	0.0	37.9
115.0		1.00	1.02	22.574	24.83	170.13	1.000 *	0.000	1.00	1.773	1.77	70.4	0.0	37.6
116.0		1.00	1.03	22.630	24.89	169.04	1.000 *	0.000	1.00	1.759	1.76	70.1	0.0	37.4
117.0		1.00	1.03	22.686	24.95	167.94	1.000 *	0.000	1.00	1.746	1.75	69.7	0.0	37.1
118.0		1.00	1.03	22.741	25.01	166.85	1.000 *	0.000	1.00	1.732	1.73	69.3	0.0	36.8
119.0		1.00	1.03	22.796	25.07	165.74	1.000 *	0.000	1.00	1.719	1.72	69.0	0.0	36.5
120.0		1.00	1.04	22.850	25.13	164.63	1.000 *	0.000	1.00	1.705	1.71	68.6	0.0	36.2
121.0		1.00	1.04	22.905	25.19	163.52	1.000 *	0.000	1.00	1.692	1.69	68.2	0.0	35.9
122.0		1.00	1.04	22.959	25.25	162.40	1.000 *	0.000	1.00	1.678	1.68	67.8	0.0	35.6
123.0		1.00	1.04	23.012	25.31	161.28	1.000 *	0.000	1.00	1.665	1.66	67.4	0.0	35.3
124.0		1.00	1.05	23.065	25.37	160.16	1.200 *	0.000	1.00	1.651	1.98	80.4	0.0	35.0
125.0		1.00	1.05	23.118	25.43	159.02	1.200 *	0.000	1.00	1.638	1.97	80.0	0.0	34.8
126.0		1.00	1.05	23.171	25.48	157.89	1.200 *	0.000	1.00	1.624	1.95	79.5	0.0	34.5
127.0		1.00	1.05	23.223	25.54	156.75	1.200 *	0.000	1.00	1.611	1.93	79.0	0.0	34.2
128.0		1.00	1.06	23.276	25.60	155.61	1.200 *	0.000	1.00	1.597	1.92	78.5	0.0	33.9
129.0		1.00	1.06	23.327	25.66	154.46	1.200 *	0.000	1.00	1.584	1.90	78.0	0.0	33.6
130.0	Appertunance(s)	1.00	1.06	23.379	25.71	153.31	1.200 *	0.000	1.00	1.570	1.88	77.5	0.0	33.3
131.0		1.00	1.06	23.430	25.77	152.15	1.000	0.000	1.00	1.557	1.56	64.2	0.0	33.0
132.0		1.00	1.07	23.481	25.82	151.00	1.000	0.000	1.00	1.543	1.54	63.8	0.0	32.7
133.0		1.00	1.07	23.532	25.88	149.83	1.000	0.000	1.00	1.530	1.53	63.4	0.0	32.4
134.0		1.00	1.07	23.582	25.94	148.67	1.000	0.000	1.00	1.517	1.52	62.9	0.0	32.2
135.0		1.00	1.07	23.632	25.99	147.49	1.000	0.000	1.00	1.503	1.50	62.5	0.0	31.9
136.0		1.00	1.07	23.682	26.05	146.32	1.000	0.000	1.00	1.490	1.49	62.1	0.0	31.6
137.0		1.00	1.08	23.732	26.10	145.14	1.000	0.000	1.00	1.476	1.48	61.7	0.0	31.3
138.0		1.00	1.08	23.781	26.15	143.96	1.000	0.000	1.00	1.463	1.46	61.2	0.0	31.0
139.0		1.00	1.08	23.830	26.21	142.77	1.000	0.000	1.00	1.449	1.45	60.8	0.0	30.7
140.0	Appertunance(s)	1.00	1.08	23.879	26.26	141.58	1.000	0.000	1.00	1.436	1.44	60.3	0.0	30.4
141.0		1.00	1.09	23.928	26.32	140.39	1.000	0.000	1.00	1.422	1.42	59.9	0.0	30.1
142.0		1.00	1.09	23.976	26.37	139.19	1.000	0.000	1.00	1.409	1.41	59.4	0.0	29.8
143.0		1.00	1.09	24.024	26.42	137.99	1.000	0.000	1.00	1.395	1.40	59.0	0.0	29.6
144.0		1.00	1.09	24.072	26.47	136.79	1.000	0.000	1.00	1.382	1.38	58.5	0.0	29.3
145.0		1.00	1.09	24.120	26.53	135.58	1.000	0.000	1.00	1.368	1.37	58.1	0.0	29.0
146.0		1.00	1.10	24.167	26.58	134.37	1.000	0.000	1.00	1.355	1.35	57.6	0.0	28.7
147.0		1.00	1.10	24.214	26.63	133.16	1.000	0.000	1.00	1.341	1.34	57.2	0.0	28.4
148.0		1.00	1.10	24.261	26.68	131.94	1.000	0.000	1.00	1.328	1.33	56.7	0.0	28.1
149.0		1.00	1.10	24.308	26.73	130.72	1.000	0.000	1.00	1.314	1.31	56.2	0.0	27.8
150.0	Appertunance(s)	1.00	1.11	24.355	26.79	129.50	1.000	0.000	1.00	1.301	1.30	55.8	0.0	27.5
Totals:								150.00				15,897.9	0.0	26,331.9

* = Cf Adjusted By Linear Load Ra Effect

Pole :	302523	Code: ANSI/TIA-222 Rev G	9/21/2012 10:16:27 AM
Location :	New Milford CT 2, CT	Struct Class : II	Page: 24
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		



Load Case: 0.9D + 1.6W — 95.00 mph with No Ice (Reduced DL) — 29 Iterations

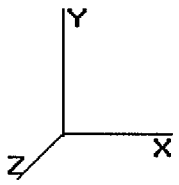
Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60
Wind Importance Factor : 1.00

Discrete Appurtenance Segment Forces (Factored)

Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa Factor	Ka	Total CaAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
75.00	PCTEL GPS-TMG-HR-	1	19.979	21.977	1.00	1.00	1.00	0.000	0.000	35.16	0.00	0.00	9.00
110.0	48" x 12" Panels	9	22.289	24.518	0.54	0.80	27.01	0.000	0.000	1,059.75	0.00	0.00	243.00
110.0	72" x 12" Panels	3	22.289	24.518	0.54	0.80	13.51	0.000	0.000	529.88	0.00	0.00	121.50
110.0	Round T-Arms	3	22.289	24.518	0.45	0.75	13.09	0.000	0.000	513.70	0.00	0.00	675.00
130.0	Antel BXA-171063-8BF	1	23.481	25.829	0.57	0.80	1.67	0.000	2.000	69.01	0.00	138.02	9.45
130.0	Antel BXA-171085-8BF	2	23.481	25.829	0.57	0.80	3.34	0.000	2.000	138.02	0.00	276.05	19.80
130.0	Antel BXA-70063/6CF	3	23.481	25.829	0.53	0.80	12.01	0.000	2.000	496.20	0.00	992.40	40.23
130.0	Antel LPA-80063/6CF	2	23.379	25.717	0.61	0.80	11.66	0.000	0.000	479.83	0.00	0.00	48.60
130.0	Antel LPA-80080/6CF	4	23.481	25.829	0.52	0.80	17.95	0.000	2.000	741.83	0.00	1,483.66	75.60
130.0	RFS FD9R6004/1C-3L	6	23.481	25.829	0.40	0.80	0.89	0.000	2.000	36.70	0.00	73.40	16.74
130.0	Round Low Profile Pl	1	23.379	25.717	1.00	1.00	21.70	0.000	0.000	892.88	0.00	0.00	1,350.00
140.0	Alcatel-Lucent 1900	3	23.879	26.267	0.54	0.80	4.36	0.000	0.000	183.14	0.00	0.00	162.00
140.0	Alcatel-Lucent 800 M	3	23.879	26.267	0.54	0.80	3.86	0.000	0.000	162.19	0.00	0.00	172.80
140.0	Decibel DB980H90E-M	6	23.976	26.374	0.54	0.80	12.54	0.000	2.000	529.27	0.00	1,058.53	45.90
140.0	RFS APXVSPP18-C-	3	23.879	26.267	0.66	0.80	15.98	0.000	0.000	671.42	0.00	0.00	153.90
140.0	Round Low Profile Pl	1	23.976	26.374	0.90	1.00	16.20	0.000	2.000	683.61	0.00	1,367.22	1,080.00
150.0	Andrew ABT-DMDM-	6	24.538	26.992	0.40	0.80	0.12	0.000	4.000	5.18	0.00	20.73	5.94
150.0	Ericsson RRUS 11	6	24.538	26.992	0.54	0.80	8.20	0.000	4.000	354.17	0.00	1,416.69	270.00
150.0	KMW AM-X-CD-16-65-	3	24.538	26.992	0.63	0.80	15.21	0.000	4.000	656.71	0.00	2,626.83	130.95
150.0	Powerwave 7770.00A	6	24.538	26.992	0.61	0.80	20.28	0.000	4.000	875.97	0.00	3,503.88	189.00
150.0	Powerwave TT19-	6	24.538	26.992	0.40	0.80	1.54	0.000	4.000	66.34	0.00	265.34	86.40
150.0	Round Low Profile Pl	1	24.401	26.841	0.90	1.00	19.53	0.000	1.000	838.72	0.00	838.72	1,350.00
										10,019.70			6,255.81

Pole : 302523
Location : New Milford CT 2, CT
Height : 150.0 (ft)
Base Dia : 53.90 (in)
Top Dia : 15.00 (in)
Shape : 12 Sides
Taper : 0.156700 (in/ft)

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



9/21/2012 10:16:27 AM

Load Case: 0.9D + 1.6W — 95.00 mph with No Ice (Reduced DL) — 29 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

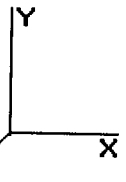
Wind Importance Factor : 1.00

Linear Appurtenance Segment Forces (Factored)

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	qz (psf)	Ra	Cf Adjust Factor	F X (lb)	Dead Load (lb)
6.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.244	0.000	57.87	55.13
6.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.244	0.000	0.00	0.14
7.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.247	0.000	57.87	55.13
7.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.247	0.000	0.00	0.14
8.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.250	0.000	57.87	55.13
8.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.250	0.000	0.00	0.14
9.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.253	0.000	57.87	55.13
9.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.253	0.000	0.00	0.14
10.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.256	0.000	57.87	55.13
10.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.256	0.000	0.00	0.14
11.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.259	0.000	57.87	55.13
11.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.259	0.000	0.00	0.14
12.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.262	0.000	57.87	55.13
12.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.262	0.000	0.00	0.14
13.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.265	0.000	57.87	55.13
13.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.265	0.000	0.00	0.14
14.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.268	0.000	57.87	55.13
14.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.268	0.000	0.00	0.14
15.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.272	0.000	57.87	55.13
15.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.272	0.000	0.00	0.14
16.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.272	0.000	57.87	55.13
16.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.272	0.000	0.00	0.14
17.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.273	0.000	57.87	55.13
17.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.273	0.000	0.00	0.14
18.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.274	0.000	57.87	55.13
18.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.274	0.000	0.00	0.14
19.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.275	0.000	57.87	55.13
19.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.275	0.000	0.00	0.14
20.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.276	0.000	57.87	55.13
20.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.276	0.000	0.00	0.14
21.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.277	0.000	57.87	55.13
21.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.277	0.000	0.00	0.14
22.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.278	0.000	57.87	55.13
22.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.278	0.000	0.00	0.14
23.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.279	0.000	57.87	55.13
23.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.279	0.000	0.00	0.14
24.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.280	0.000	57.87	55.13
24.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.280	0.000	0.00	0.14
25.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.282	0.000	57.87	55.13
25.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.282	0.000	0.00	0.14
26.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.283	0.000	57.87	55.13
26.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.283	0.000	0.00	0.14
27.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.284	0.000	57.87	55.13
27.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.284	0.000	0.00	0.14
28.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.285	0.000	57.87	55.13
28.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.285	0.000	0.00	0.14
29.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.364	0.286	0.000	57.87	55.13
29.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.364	0.286	0.000	0.00	0.14
30.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.377	0.287	0.000	57.92	55.13
30.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.377	0.287	0.000	0.00	0.14
31.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.522	0.288	0.000	58.46	55.13

Pole : 302523
Location : New Milford CT 2, CT
Height : 150.0 (ft)
Base Dia : 53.90 (in)
Top Dia : 15.00 (in)
Shape : 12 Sides
Taper : 0.156700 (in/ft)

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



Load Case: 0.9D + 1.6W — 95.00 mph with No Ice (Reduced DL) — 29 Iterations

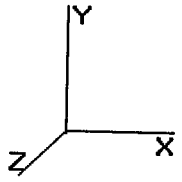
Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

31.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.522	0.288	0.000	0.00	0.14
32.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.663	0.289	0.000	58.99	55.13
32.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.663	0.289	0.000	0.00	0.14
33.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.802	0.290	0.000	59.52	55.13
33.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.802	0.290	0.000	0.00	0.14
34.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	15.937	0.291	0.000	60.03	55.13
34.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	15.937	0.291	0.000	0.00	0.14
35.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	16.070	0.292	0.000	60.52	55.13
35.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	16.070	0.292	0.000	0.00	0.14
36.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	16.199	0.293	0.000	61.01	55.13
36.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	16.199	0.293	0.000	0.00	0.14
37.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	16.327	0.295	0.000	61.49	55.13
37.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	16.327	0.295	0.000	0.00	0.14
38.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	16.452	0.296	0.000	61.96	55.13
38.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	16.452	0.296	0.000	0.00	0.14
39.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	16.574	0.297	0.000	62.42	55.13
39.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	16.574	0.297	0.000	0.00	0.14
40.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	16.694	0.298	0.000	62.88	55.13
40.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	16.694	0.298	0.000	0.00	0.14
41.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	16.813	0.299	0.000	63.32	55.13
41.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	16.813	0.299	0.000	0.00	0.14
42.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	16.929	0.300	0.000	63.76	55.13
42.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	16.929	0.300	0.000	0.00	0.14
43.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	17.043	0.302	0.000	64.19	55.13
43.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	17.043	0.302	0.000	0.00	0.14
44.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	17.155	0.303	0.000	64.61	55.13
44.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	17.155	0.303	0.000	0.00	0.14
45.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	17.266	0.304	0.000	65.03	55.13
45.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	17.266	0.304	0.000	0.00	0.14
46.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	17.375	0.305	0.000	65.44	55.13
46.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	17.375	0.305	0.000	0.00	0.14
47.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	17.482	0.306	0.000	65.84	55.13
47.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	17.482	0.306	0.000	0.00	0.14
48.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	17.587	0.308	0.000	66.24	55.13
48.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	17.587	0.308	0.000	0.00	0.14
49.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	17.691	0.309	0.000	66.63	55.13
49.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	17.691	0.309	0.000	0.00	0.14
50.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	17.793	0.310	0.000	67.02	55.13
50.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	17.793	0.310	0.000	0.00	0.14
51.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	17.894	0.311	0.000	67.40	55.13
51.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	17.894	0.311	0.000	0.00	0.14
52.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	17.994	0.313	0.000	67.77	55.13
52.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	17.994	0.313	0.000	0.00	0.14
53.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	18.092	0.314	0.000	68.14	55.13
53.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	18.092	0.314	0.000	0.00	0.14
54.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	18.189	0.315	0.000	68.51	55.13
54.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	18.189	0.315	0.000	0.00	0.14
55.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	18.285	0.317	0.000	68.87	55.13
55.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	18.285	0.317	0.000	0.00	0.14
56.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	18.379	0.315	0.000	69.22	55.13
56.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	18.379	0.315	0.000	0.00	0.14
57.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	18.472	0.317	0.000	69.57	55.13
57.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	18.472	0.317	0.000	0.00	0.14
58.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	18.564	0.318	0.000	69.92	55.13
58.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	18.564	0.318	0.000	0.00	0.14
59.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	18.655	0.319	0.000	70.26	55.13
59.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	18.655	0.319	0.000	0.00	0.14

Pole : 302523
Location : New Milford CT 2, CT
Height : 150.0 (ft)
Base Dia : 53.90 (in)
Top Dia : 15.00 (in)
Shape : 12 Sides
Taper : 0.156700 (in/ft)

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



Load Case: 0.9D + 1.6W — 95.00 mph with No Ice (Reduced DL) — 29 Iterations

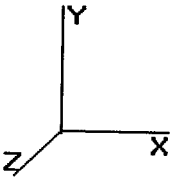
Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

60.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	18.745	0.321	0.000	70.60	55.13
60.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	18.745	0.321	0.000	0.00	0.14
61.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	18.834	0.322	0.000	70.94	55.13
61.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	18.834	0.322	0.000	0.00	0.14
62.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	18.921	0.324	0.000	71.27	55.13
62.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	18.921	0.324	0.000	0.00	0.14
63.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	19.008	0.325	0.000	71.59	55.13
63.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	19.008	0.325	0.000	0.00	0.14
64.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	19.094	0.326	0.000	71.91	55.13
64.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	19.094	0.326	0.000	0.00	0.14
65.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	19.179	0.328	0.000	72.23	55.13
65.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	19.179	0.328	0.000	0.00	0.14
66.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	19.262	0.329	0.000	72.55	55.13
66.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	19.262	0.329	0.000	0.00	0.14
67.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	19.345	0.331	0.000	72.86	55.13
67.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	19.345	0.331	0.000	0.00	0.14
68.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	19.427	0.332	0.000	73.17	55.13
68.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	19.427	0.332	0.000	0.00	0.14
69.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	19.509	0.333	0.000	73.48	55.13
69.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	19.509	0.333	0.000	0.00	0.14
70.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	19.589	0.335	0.000	73.78	55.13
70.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	19.589	0.335	0.000	0.00	0.14
71.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	19.669	0.336	0.000	74.08	55.13
71.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	19.669	0.336	0.000	0.00	0.14
72.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	19.747	0.338	0.000	74.38	55.13
72.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	19.747	0.338	0.000	0.00	0.14
73.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	19.825	0.339	0.000	74.67	55.13
73.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	19.825	0.339	0.000	0.00	0.14
74.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	19.902	0.341	0.000	74.96	55.13
74.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	19.902	0.341	0.000	0.00	0.14
75.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	19.979	0.342	0.000	75.25	55.13
75.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	19.979	0.342	0.000	0.00	0.14
76.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	20.055	0.344	0.000	75.53	55.13
77.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	20.130	0.346	0.000	75.82	55.13
78.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	20.204	0.347	0.000	76.10	55.13
79.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	20.278	0.349	0.000	76.37	55.13
80.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	20.351	0.487	0.000	29.85	45.09
80.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	20.351	0.487	0.000	76.65	55.13
81.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	20.423	0.489	0.000	29.95	45.09
81.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	20.423	0.489	0.000	76.92	55.13
82.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	20.495	0.491	0.000	30.06	45.09
82.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	20.495	0.491	0.000	77.19	55.13
83.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	20.566	0.494	0.000	30.16	45.09
83.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	20.566	0.494	0.000	77.46	55.13
84.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	20.636	0.496	0.000	30.27	45.09
84.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	20.636	0.496	0.000	77.73	55.13
84.11	(3) #20 Dywidag Bars	Yes	0.11	2.000	5.00	0.05	0.09	20.644	0.497	0.000	3.33	4.96
84.11	(2) Seam Flange	Yes	0.11	2.000	12.84	0.12	0.24	20.644	0.497	0.000	8.55	6.06
85.00	(3) #20 Dywidag Bars	Yes	0.89	2.000	5.00	0.37	0.74	20.706	0.498	0.000	27.03	40.13
85.00	(2) Seam Flange	Yes	0.89	2.000	12.84	0.95	1.90	20.706	0.498	0.000	69.42	49.07
86.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	20.776	0.498	0.000	14.55	8.85
86.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	20.776	0.498	0.000	14.55	8.85
86.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	20.776	0.498	0.000	30.47	45.09
87.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	20.844	0.501	0.000	14.60	8.85
87.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	20.844	0.501	0.000	14.60	8.85
87.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	20.844	0.501	0.000	30.57	45.09
88.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	20.913	0.504	0.000	14.65	8.85

Pole : 302523
Location : New Milford CT 2, CT
Height : 150.0 (ft)
Base Dia : 53.90 (in)
Top Dia : 15.00 (in)
Shape : 12 Sides
Taper : 0.156700 (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 — 95.00 mph with No Ice (Reduced DL) — 29 Iterations

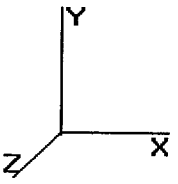
Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

88.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	20.913	0.504	0.000	14.65	8.85
88.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	20.913	0.504	0.000	30.67	45.09
89.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	20.980	0.507	0.000	14.70	8.85
89.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	20.980	0.507	0.000	14.70	8.85
89.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	20.980	0.507	0.000	30.77	45.09
90.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.047	0.511	0.000	14.74	8.85
90.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.047	0.511	0.000	14.74	8.85
90.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	21.047	0.511	0.000	30.87	45.09
91.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.114	0.514	0.000	14.79	8.85
91.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.114	0.514	0.000	14.79	8.85
91.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	21.114	0.514	0.000	30.97	45.09
92.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.180	0.517	0.000	14.84	8.85
92.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.180	0.517	0.000	14.84	8.85
92.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	21.180	0.517	0.000	31.06	45.09
93.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.245	0.521	0.000	14.88	8.85
93.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.245	0.521	0.000	14.88	8.85
93.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	21.245	0.521	0.000	31.16	45.09
94.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.310	0.524	0.000	14.93	8.85
94.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.310	0.524	0.000	14.93	8.85
94.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	21.310	0.524	0.000	31.26	45.09
95.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.375	0.528	0.000	14.97	8.85
95.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.375	0.528	0.000	14.97	8.85
95.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	21.375	0.528	0.000	31.35	45.09
95.50	(12) 1 5/8" Coax	Yes	0.50	1.200	3.98	0.17	0.20	21.407	0.530	0.000	7.50	4.43
95.50	(12) 1 5/8" Coax	Yes	0.50	1.200	3.98	0.17	0.20	21.407	0.530	0.000	7.50	4.43
95.50	(3) #20 Dywidag Bars	Yes	0.50	2.000	5.00	0.21	0.42	21.407	0.530	0.000	15.70	22.54
96.00	(12) 1 5/8" Coax	Yes	0.50	1.200	3.98	0.17	0.20	21.439	0.532	0.000	7.51	4.43
96.00	(12) 1 5/8" Coax	Yes	0.50	1.200	3.98	0.17	0.20	21.439	0.532	0.000	7.51	4.43
96.00	(3) #20 Dywidag Bars	Yes	0.50	2.000	5.00	0.21	0.42	21.439	0.532	0.000	15.72	22.54
97.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.503	0.535	0.000	15.06	8.85
97.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.503	0.535	0.000	15.06	8.85
97.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	21.503	0.535	0.000	31.54	45.09
98.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.566	0.539	0.000	15.11	8.85
98.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.566	0.539	0.000	15.11	8.85
98.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	21.566	0.539	0.000	31.63	45.09
99.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.628	0.542	0.000	15.15	8.85
99.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.628	0.542	0.000	15.15	8.85
99.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	21.628	0.542	0.000	31.72	45.09
100.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.690	0.546	0.000	15.19	8.85
100.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.690	0.546	0.000	15.19	8.85
100.0	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	21.690	0.546	0.000	31.81	45.09
101.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.752	0.338	0.000	15.24	8.85
101.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.752	0.338	0.000	15.24	8.85
102.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.814	0.340	0.000	15.28	8.85
102.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.814	0.340	0.000	15.28	8.85
103.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.874	0.343	0.000	15.32	8.85
103.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.874	0.343	0.000	15.32	8.85
104.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.935	0.345	0.000	15.36	8.85
104.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.935	0.345	0.000	15.36	8.85
105.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.995	0.348	0.000	15.41	8.85
105.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	21.995	0.348	0.000	15.41	8.85
106.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	22.055	0.350	0.000	15.45	8.85
106.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	22.055	0.350	0.000	15.45	8.85
107.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	22.114	0.353	0.000	15.49	8.85
107.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	22.114	0.353	0.000	15.49	8.85
108.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	22.173	0.355	0.000	15.53	8.85
108.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	22.173	0.355	0.000	15.53	8.85

Pole : 302523
Location : New Milford CT 2, CT
Height : 150.0 (ft)
Base Dia : 53.90 (in)
Top Dia : 15.00 (in)
Shape : 12 Sides
Taper : 0.156700 (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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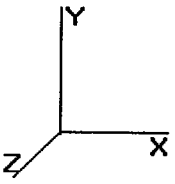
Load Case: 0.9D + 1.6W — 95.00 mph with No Ice (Reduced DL) — 29 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

101.00	-8.65	-14.30	0.00	-446.38	0.00	446.38	1,318.44	659.22	1,217.03	601.04	25.51	-2.96	0.750
102.00	-8.54	-14.19	0.00	-432.08	0.00	432.08	1,312.08	656.04	1,202.47	593.86	26.14	-3.07	0.735
103.00	-8.42	-14.08	0.00	-417.89	0.00	417.89	1,305.69	652.84	1,187.96	586.69	26.79	-3.17	0.719
104.00	-8.31	-13.97	0.00	-403.80	0.00	403.80	1,299.25	649.62	1,173.50	579.55	27.47	-3.28	0.704
105.00	-8.20	-13.86	0.00	-389.83	0.00	389.83	1,293.29	646.65	1,159.56	572.66	28.17	-3.38	0.688
106.00	-8.09	-13.75	0.00	-375.97	0.00	375.97	1,283.85	641.92	1,142.58	564.28	28.89	-3.48	0.673
107.00	-7.98	-13.64	0.00	-362.21	0.00	362.21	1,274.40	637.20	1,125.74	555.96	29.63	-3.58	0.658
108.00	-7.87	-13.53	0.00	-348.57	0.00	348.57	1,264.95	632.48	1,109.01	547.70	30.39	-3.68	0.643
109.00	-7.77	-13.42	0.00	-335.04	0.00	335.04	1,255.51	627.75	1,092.42	539.50	31.17	-3.78	0.628
110.00	-6.77	-11.14	0.00	-321.62	0.00	321.62	1,246.06	623.03	1,075.94	531.37	31.97	-3.88	0.611
110.00	-6.77	-11.14	0.00	-321.62	0.00	321.62	852.83	426.42	740.79	365.85	31.97	-3.88	0.888
111.00	-6.68	-11.08	0.00	-310.48	0.00	310.48	849.27	424.64	732.18	361.60	32.79	-3.97	0.867
112.00	-6.59	-11.02	0.00	-299.40	0.00	299.40	845.67	422.84	723.58	357.35	33.64	-4.09	0.846
113.00	-6.51	-10.95	0.00	-288.38	0.00	288.38	842.03	421.01	714.99	353.11	34.51	-4.22	0.825
114.00	-6.42	-10.89	0.00	-277.43	0.00	277.43	838.34	419.17	706.41	348.87	35.40	-4.34	0.804
115.00	-6.34	-10.83	0.00	-266.54	0.00	266.54	834.62	417.31	697.84	344.64	36.33	-4.45	0.782
116.00	-6.25	-10.77	0.00	-255.71	0.00	255.71	830.85	415.43	689.29	340.42	37.27	-4.57	0.759
117.00	-6.17	-10.70	0.00	-244.94	0.00	244.94	827.04	413.52	680.76	336.20	38.24	-4.68	0.737
118.00	-6.09	-10.64	0.00	-234.24	0.00	234.24	823.19	411.60	672.24	331.99	39.23	-4.79	0.714
119.00	-6.01	-10.58	0.00	-223.60	0.00	223.60	819.30	409.65	663.73	327.79	40.25	-4.90	0.690
120.00	-5.93	-10.51	0.00	-213.02	0.00	213.02	815.37	407.68	655.25	323.60	41.28	-5.01	0.666
121.00	-5.85	-10.45	0.00	-202.51	0.00	202.51	811.40	405.70	646.78	319.42	42.34	-5.11	0.642
122.00	-5.77	-10.39	0.00	-192.06	0.00	192.06	807.38	403.69	638.33	315.25	43.42	-5.21	0.617
123.00	-5.69	-10.32	0.00	-181.67	0.00	181.67	803.32	401.66	629.90	311.09	44.52	-5.31	0.592
124.00	-5.62	-10.23	0.00	-171.35	0.00	171.35	799.23	399.61	621.49	306.93	45.65	-5.40	0.566
125.00	-5.55	-10.14	0.00	-161.12	0.00	161.12	795.09	397.54	613.11	302.79	46.79	-5.50	0.540
126.00	-5.48	-10.04	0.00	-150.98	0.00	150.98	790.91	395.45	604.74	298.66	47.94	-5.58	0.513
127.00	-5.41	-9.95	0.00	-140.94	0.00	140.94	786.69	393.34	596.40	294.54	49.12	-5.67	0.486
128.00	-5.34	-9.86	0.00	-130.99	0.00	130.99	782.42	391.21	588.08	290.43	50.32	-5.75	0.458
129.00	-5.27	-9.76	0.00	-121.13	0.00	121.13	778.12	389.06	579.79	286.34	51.53	-5.83	0.430
130.00	-3.95	-6.67	0.00	-108.40	0.00	108.40	773.77	386.89	571.52	282.25	52.75	-5.90	0.389
131.00	-3.89	-6.61	0.00	-101.73	0.00	101.73	769.39	384.69	563.28	278.18	53.99	-5.96	0.371
132.00	-3.84	-6.54	0.00	-95.13	0.00	95.13	764.96	382.48	555.06	274.13	55.25	-6.03	0.352
133.00	-3.79	-6.48	0.00	-88.58	0.00	88.58	760.49	380.24	546.88	270.08	56.52	-6.09	0.333
134.00	-3.73	-6.41	0.00	-82.11	0.00	82.11	755.98	377.99	538.72	266.05	57.80	-6.15	0.314
135.00	-3.68	-6.35	0.00	-75.70	0.00	75.70	751.42	375.71	530.59	262.04	59.09	-6.21	0.294
136.00	-3.63	-6.28	0.00	-69.35	0.00	69.35	746.83	373.41	522.49	258.04	60.39	-6.26	0.274
137.00	-3.58	-6.22	0.00	-63.07	0.00	63.07	742.19	371.10	514.42	254.05	61.71	-6.31	0.253
138.00	-3.53	-6.16	0.00	-56.85	0.00	56.85	737.52	368.76	506.39	250.09	63.03	-6.36	0.232
139.00	-3.48	-6.09	0.00	-50.69	0.00	50.69	732.80	366.40	498.39	246.13	64.36	-6.40	0.211
140.00	-2.07	-3.63	0.00	-42.18	0.00	42.18	728.04	364.02	490.42	242.20	65.71	-6.44	0.177
141.00	-2.03	-3.57	0.00	-38.54	0.00	38.54	721.77	360.89	481.50	237.80	67.05	-6.47	0.165
142.00	-1.99	-3.50	0.00	-34.98	0.00	34.98	714.82	357.41	472.22	233.21	68.41	-6.50	0.153
143.00	-1.95	-3.44	0.00	-31.47	0.00	31.47	707.87	353.93	463.02	228.67	69.77	-6.53	0.140
144.00	-1.92	-3.38	0.00	-28.03	0.00	28.03	700.91	350.46	453.92	224.17	71.14	-6.56	0.128
145.00	-1.88	-3.32	0.00	-24.65	0.00	24.65	693.96	346.98	444.90	219.72	72.52	-6.58	0.115
146.00	-1.84	-3.26	0.00	-21.33	0.00	21.33	687.01	343.50	435.98	215.31	73.89	-6.61	0.102
147.00	-1.80	-3.20	0.00	-18.08	0.00	18.08	680.05	340.03	427.15	210.95	75.28	-6.63	0.088
148.00	-1.77	-3.13	0.00	-14.88	0.00	14.88	673.10	336.55	418.40	206.63	76.66	-6.64	0.075
149.00	-1.73	-3.07	0.00	-11.75	0.00	11.75	666.15	333.07	409.75	202.36	78.05	-6.66	0.061
150.00	0.00	-2.85	0.00	-8.67	0.00	8.67	659.19	329.60	401.19	198.13	79.45	-6.67	0.044

Pole : 302523	Code: ANSI/TIA-222 Rev G		9/21/2012 10:16:29 AM
Location : New Milford CT 2, CT	Struct Class : II		Page: 36
Height : 150.0 (ft)	Exposure Category : B		
Base Dia : 53.90 (in)	Topographic Category : 1		
Top Dia : 15.00 (in)	Base Elev : 0.000 (ft)		
Shape : 12 Sides			
Taper : 0.156700 (in/ft)			



Load Case: 1.2D + 1.0Di + 1.0Wi — 40.00 mph with 0.75 in Radial Ice — 28 Iterations

Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

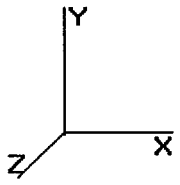
Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

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)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	2.724	2.996	0.000	1.200		0.000	0.00	0.000	0.00	0.0	0.0	0.0
1.00		1.00	0.70	2.724	2.996	0.000	1.200		1.057	1.00	4.802	5.76	17.3	74.5	595.8
2.00		1.00	0.70	2.724	2.996	0.000	1.200		1.133	1.00	4.766	5.72	17.1	79.1	594.9
3.00		1.00	0.70	2.724	2.996	0.000	1.200		1.180	1.00	4.724	5.67	17.0	81.6	591.8
4.00		1.00	0.70	2.724	2.996	0.000	1.200		1.215	1.00	4.681	5.62	16.8	83.1	587.7
5.00		1.00	0.70	2.724	2.996	0.000	1.200		1.242	1.00	4.637	5.56	16.7	84.2	583.1
6.00		1.00	0.70	2.724	2.996	0.000	1.200	*	1.265	1.00	4.592	5.51	16.5	84.8	578.2
7.00		1.00	0.70	2.724	2.996	0.000	1.200	*	1.285	1.00	4.546	5.46	16.3	85.2	573.0
8.00		1.00	0.70	2.724	2.996	0.000	1.200	*	1.302	1.00	4.500	5.40	16.2	85.4	567.6
9.00		1.00	0.70	2.724	2.996	0.000	1.200	*	1.317	1.00	4.454	5.34	16.0	85.5	562.1
10.00		1.00	0.70	2.724	2.996	0.000	1.200	*	1.331	1.00	4.407	5.29	15.8	85.5	556.5
11.00		1.00	0.70	2.724	2.996	0.000	1.200	*	1.344	1.00	4.360	5.23	15.7	85.3	550.7
12.00		1.00	0.70	2.724	2.996	0.000	1.200	*	1.356	1.00	4.313	5.18	15.5	85.1	544.9
13.00		1.00	0.70	2.724	2.996	0.000	1.200	*	1.367	1.00	4.266	5.12	15.3	84.8	539.0
14.00		1.00	0.70	2.724	2.996	0.000	1.200	*	1.377	1.00	4.219	5.06	15.2	84.4	533.0
15.00	Top - Section 1	1.00	0.70	2.724	2.996	0.000	1.200	*	1.386	1.00	4.172	5.01	15.0	84.0	527.0
16.00		1.00	0.70	2.724	2.996	0.000	1.200	*	1.395	1.00	4.160	4.99	15.0	84.6	489.9
17.00		1.00	0.70	2.724	2.996	0.000	1.200	*	1.404	1.00	4.147	4.98	14.9	84.9	488.6
18.00		1.00	0.70	2.724	2.996	0.000	1.200	*	1.412	1.00	4.134	4.96	14.9	85.1	487.4
19.00		1.00	0.70	2.724	2.996	0.000	1.200	*	1.419	1.00	4.122	4.95	14.8	85.2	486.1
20.00		1.00	0.70	2.724	2.996	0.000	1.200	*	1.427	1.00	4.109	4.93	14.8	85.4	484.8
21.00		1.00	0.70	2.724	2.996	0.000	1.200	*	1.434	1.00	4.096	4.92	14.7	85.5	483.4
22.00		1.00	0.70	2.724	2.996	0.000	1.200	*	1.440	1.00	4.083	4.90	14.7	85.6	482.1
23.00		1.00	0.70	2.724	2.996	0.000	1.200	*	1.447	1.00	4.070	4.88	14.6	85.7	480.7
24.00		1.00	0.70	2.724	2.996	0.000	1.200	*	1.453	1.00	4.057	4.87	14.6	85.8	479.3
25.00		1.00	0.70	2.724	2.996	0.000	1.200	*	1.459	1.00	4.044	4.85	14.5	85.8	477.9
26.00		1.00	0.70	2.724	2.996	0.000	1.200	*	1.465	1.00	4.031	4.84	14.5	85.9	476.4
27.00		1.00	0.70	2.724	2.996	0.000	1.200	*	1.470	1.00	4.018	4.82	14.4	85.9	475.0
28.00		1.00	0.70	2.724	2.996	0.000	1.200	*	1.476	1.00	4.005	4.81	14.4	85.9	473.5
29.00		1.00	0.70	2.724	2.996	0.000	1.200	*	1.481	1.00	3.992	4.79	14.4	85.9	472.1
30.00		1.00	0.70	2.726	2.999	0.000	1.200	*	1.486	1.00	3.978	4.77	14.3	85.9	470.6
31.00		1.00	0.70	2.752	3.027	0.000	1.200	*	1.491	1.00	3.965	4.76	14.4	85.9	469.1
32.00		1.00	0.71	2.777	3.055	0.000	1.200	*	1.495	1.00	3.952	4.74	14.5	85.8	467.6
33.00		1.00	0.72	2.801	3.082	0.000	1.200	*	1.500	1.00	3.939	4.73	14.6	85.8	466.1
34.00		1.00	0.72	2.825	3.108	0.000	1.200	*	1.504	1.00	3.925	4.71	14.6	85.8	464.6
35.00		1.00	0.73	2.849	3.134	0.000	1.200	*	1.509	1.00	3.912	4.69	14.7	85.7	463.0
36.00		1.00	0.73	2.872	3.159	0.000	1.200	*	1.513	1.00	3.899	4.68	14.8	85.6	461.5
37.00		1.00	0.74	2.894	3.184	0.000	1.200	*	1.517	1.00	3.885	4.66	14.8	85.5	459.9
38.00		1.00	0.75	2.917	3.208	0.000	1.200	*	1.521	1.00	3.872	4.65	14.9	85.5	458.4
39.00		1.00	0.75	2.938	3.232	0.000	1.200	*	1.525	1.00	3.859	4.63	15.0	85.4	456.8
40.00		1.00	0.76	2.960	3.256	0.000	1.200	*	1.529	1.00	3.845	4.61	15.0	85.3	455.3
41.00		1.00	0.76	2.981	3.279	0.000	1.200	*	1.533	1.00	3.832	4.60	15.1	85.2	453.7
42.00		1.00	0.77	3.001	3.301	0.000	1.200	*	1.537	1.00	3.819	4.58	15.1	85.1	452.1
43.00		1.00	0.77	3.021	3.324	0.000	1.200	*	1.540	1.00	3.805	4.57	15.2	84.9	450.5
44.00		1.00	0.78	3.041	3.346	0.000	1.200	*	1.544	1.00	3.792	4.55	15.2	84.8	448.9
45.00		1.00	0.78	3.061	3.367	0.000	1.200	*	1.547	1.00	3.778	4.53	15.3	84.7	447.3
46.00		1.00	0.79	3.080	3.388	0.000	1.200	*	1.551	1.00	3.765	4.52	15.3	84.6	445.7
47.00		1.00	0.79	3.099	3.409	0.000	1.200	*	1.554	1.00	3.751	4.50	15.3	84.4	444.1
48.00		1.00	0.80	3.118	3.430	0.000	1.200	*	1.557	1.00	3.738	4.49	15.4	84.3	442.5
49.00		1.00	0.80	3.136	3.450	0.000	1.200	*	1.560	1.00	3.724	4.47	15.4	84.1	440.9
50.00		1.00	0.81	3.155	3.470	0.000	1.200	*	1.564	1.00	3.711	4.45	15.5	84.0	439.3

Pole : 302523	Code: ANSI/TIA-222 Rev G		9/21/2012 10:16:29 AM
Location : New Milford CT 2, CT	Struct Class : II		Page: 37
Height : 150.0 (ft)	Exposure Category : B		
Base Dia : 53.90 (in)	Topographic Category : 1		
Top Dia : 15.00 (in)	Base Elev : 0.000 (ft)		
Shape : 12 Sides			
Taper : 0.156700 (in/ft)			



Load Case: 1.2D + 1.0Di + 1.0Wi — 40.00 mph with 0.75 in Radial Ice — 28 Iterations

Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

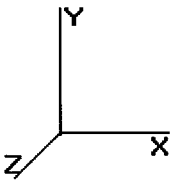
Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

51.00		1.00	0.81	3.172	3.490	0.000	1.200	* 1.567	1.00	3.697	4.44	15.5	83.8	437.6
52.00		1.00	0.82	3.190	3.509	0.000	1.200	* 1.570	1.00	3.684	4.42	15.5	83.6	436.0
53.00		1.00	0.82	3.207	3.528	0.000	1.200	* 1.573	1.00	3.670	4.40	15.5	83.5	434.4
54.00		1.00	0.82	3.225	3.547	0.000	1.200	* 1.576	1.00	3.657	4.39	15.6	83.3	432.7
55.00	Top - Section 2	1.00	0.83	3.242	3.566	0.000	1.200	* 1.579	1.00	3.643	4.37	15.6	83.1	431.1
56.00		1.00	0.83	3.258	3.584	0.000	1.200	* 1.581	1.00	3.656	4.39	15.7	83.6	401.5
57.00		1.00	0.84	3.275	3.602	0.000	1.200	* 1.584	1.00	3.642	4.37	15.7	83.4	400.0
58.00		1.00	0.84	3.291	3.620	0.000	1.200	* 1.587	1.00	3.628	4.35	15.8	83.2	398.5
59.00		1.00	0.85	3.307	3.638	0.000	1.200	* 1.590	1.00	3.615	4.34	15.8	83.0	397.0
60.00		1.00	0.85	3.323	3.656	0.000	1.200	* 1.592	1.00	3.601	4.32	15.8	82.8	395.4
61.00		1.00	0.85	3.339	3.673	0.000	1.200	* 1.595	1.00	3.587	4.30	15.8	82.6	393.9
62.00		1.00	0.86	3.354	3.690	0.000	1.200	* 1.598	1.00	3.574	4.29	15.8	82.4	392.3
63.00		1.00	0.86	3.370	3.707	0.000	1.200	* 1.600	1.00	3.560	4.27	15.8	82.2	390.8
64.00		1.00	0.87	3.385	3.724	0.000	1.200	* 1.603	1.00	3.546	4.26	15.8	82.0	389.3
65.00		1.00	0.87	3.400	3.740	0.000	1.200	* 1.605	1.00	3.533	4.24	15.9	81.8	387.7
66.00		1.00	0.87	3.415	3.756	0.000	1.200	* 1.608	1.00	3.519	4.22	15.9	81.6	386.2
67.00		1.00	0.88	3.430	3.773	0.000	1.200	* 1.610	1.00	3.505	4.21	15.9	81.4	384.6
68.00		1.00	0.88	3.444	3.789	0.000	1.200	* 1.612	1.00	3.492	4.19	15.9	81.2	383.0
69.00		1.00	0.88	3.459	3.804	0.000	1.200	* 1.615	1.00	3.478	4.17	15.9	81.0	381.5
70.00		1.00	0.89	3.473	3.820	0.000	1.200	* 1.617	1.00	3.464	4.16	15.9	80.7	379.9
71.00		1.00	0.89	3.487	3.836	0.000	1.200	* 1.619	1.00	3.451	4.14	15.9	80.5	378.4
72.00		1.00	0.90	3.501	3.851	0.000	1.200	* 1.622	1.00	3.437	4.12	15.9	80.3	376.8
73.00		1.00	0.90	3.515	3.866	0.000	1.200	* 1.624	1.00	3.423	4.11	15.9	80.1	375.2
74.00		1.00	0.90	3.528	3.881	0.000	1.200	* 1.626	1.00	3.409	4.09	15.9	79.8	373.6
75.00	Top - Section 3	1.00	0.91	3.542	3.896	0.000	1.200	* 1.628	1.00	3.396	4.07	15.9	79.6	372.1
76.00		1.00	0.91	3.555	3.911	0.000	1.200	* 1.631	1.00	3.382	4.06	15.9	79.4	313.1
77.00		1.00	0.91	3.569	3.926	0.000	1.200	* 1.633	1.00	3.368	4.04	15.9	79.1	311.8
78.00		1.00	0.92	3.582	3.940	0.000	1.200	* 1.635	1.00	3.355	4.03	15.9	78.9	310.5
79.00		1.00	0.92	3.595	3.954	0.000	1.200	* 1.637	1.00	3.341	4.01	15.9	78.6	309.1
80.00		1.00	0.92	3.608	3.969	0.000	1.200	* 1.639	1.00	3.327	3.99	15.8	78.4	307.8
81.00		1.00	0.93	3.621	3.983	0.000	1.200	* 1.641	1.00	3.313	3.98	15.8	78.2	306.5
82.00		1.00	0.93	3.633	3.997	0.000	1.200	* 1.643	1.00	3.300	3.96	15.8	77.9	305.2
83.00		1.00	0.93	3.646	4.011	0.000	1.200	* 1.645	1.00	3.286	3.94	15.8	77.7	303.9
84.00		1.00	0.94	3.659	4.024	0.000	1.200	* 1.647	1.00	3.272	3.93	15.8	77.4	302.5
84.11	Reinf Bottom	1.00	0.94	3.660	4.026	0.000	1.200	* 1.647	0.11	0.359	0.43	1.7	8.5	33.2
85.00	Top - Section 4	1.00	0.94	3.671	4.038	0.000	1.200	* 1.649	0.89	2.899	3.48	14.0	68.7	312.6
86.00		1.00	0.94	3.683	4.052	0.000	1.200	* 1.651	1.00	2.445	2.93	11.9	57.1	189.0
87.00		1.00	0.95	3.695	4.065	0.000	1.200	* 1.653	1.00	2.432	2.92	11.9	56.8	188.2
88.00		1.00	0.95	3.707	4.078	0.000	1.200	* 1.655	1.00	2.418	2.90	11.8	56.5	187.4
89.00		1.00	0.95	3.719	4.091	0.000	1.200	* 1.656	1.00	2.405	2.89	11.8	56.2	186.6
90.00		1.00	0.95	3.731	4.105	0.000	1.200	* 1.658	1.00	2.391	2.87	11.8	56.0	185.8
91.00		1.00	0.96	3.743	4.117	0.000	1.200	* 1.660	1.00	2.378	2.85	11.7	55.7	185.0
92.00		1.00	0.96	3.755	4.130	0.000	1.200	* 1.662	1.00	2.364	2.84	11.7	55.4	184.2
93.00		1.00	0.96	3.766	4.143	0.000	1.200	* 1.664	1.00	2.351	2.82	11.7	55.1	183.4
94.00		1.00	0.97	3.778	4.156	0.000	1.200	* 1.666	1.00	2.338	2.81	11.7	54.9	182.6
95.00		1.00	0.97	3.789	4.168	0.000	1.200	* 1.667	1.00	2.324	2.79	11.6	54.6	181.8
95.50	Reinf. Top	1.00	0.97	3.795	4.175	0.000	1.200	* 1.668	0.50	1.157	1.39	5.8	27.2	90.6
96.00		1.00	0.97	3.801	4.181	0.000	1.200	* 1.669	0.50	1.154	1.38	5.8	27.1	65.4
97.00		1.00	0.98	3.812	4.193	0.000	1.200	* 1.671	1.00	2.297	2.76	11.6	54.0	130.1
98.00		1.00	0.98	3.823	4.206	0.000	1.200	* 1.672	1.00	2.284	2.74	11.5	53.7	129.3
99.00		1.00	0.98	3.834	4.218	0.000	1.200	* 1.674	1.00	2.270	2.72	11.5	53.4	128.5
100.0		1.00	0.98	3.845	4.230	0.000	1.200	* 1.676	1.00	2.257	2.71	11.5	53.1	127.7
101.0		1.00	0.99	3.856	4.242	0.000	1.200	* 1.678	1.00	2.243	2.69	11.4	52.9	126.9
102.0		1.00	0.99	3.867	4.254	0.000	1.200	* 1.679	1.00	2.230	2.68	11.4	52.6	126.0
103.0		1.00	0.99	3.878	4.266	0.000	1.200	* 1.681	1.00	2.216	2.66	11.3	52.3	125.2
104.0		1.00	0.99	3.889	4.278	0.000	1.200	* 1.682	1.00	2.203	2.64	11.3	52.0	124.4
105.0		1.00	1.00	3.899	4.289	0.000	1.200	* 1.684	1.00	2.190	2.63	11.3	51.7	123.6

Pole : 302523
Location : New Milford CT 2, CT
Height : 150.0 (ft)
Base Dia : 53.90 (in)
Top Dia : 15.00 (in)
Shape : 12 Sides
Taper : 0.156700 (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 — 40.00 mph with 0.75 in Radial Ice — 28 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.00

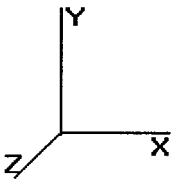
Ice Dead Load Factor : 1.00

Wind Importance Factor : 1.00
Ice Importance Factor : 1.00

106.0		1.00	1.00	3.910	4.301	0.000	1.200	*	1.686	1.00	2.176	2.61	11.2	51.4	122.8
107.0		1.00	1.00	3.920	4.313	0.000	1.200	*	1.687	1.00	2.163	2.60	11.2	51.1	122.0
108.0		1.00	1.01	3.931	4.324	0.000	1.200	*	1.689	1.00	2.149	2.58	11.2	50.8	121.1
109.0		1.00	1.01	3.941	4.335	0.000	1.200	*	1.690	1.00	2.136	2.56	11.1	50.5	120.3
110.0	Top - Section 5	1.00	1.01	3.952	4.347	0.000	1.200	*	1.692	1.00	2.122	2.55	11.1	50.2	119.5
111.0		1.00	1.01	3.962	4.358	0.000	1.200	*	1.693	1.00	2.109	2.53	11.0	49.9	101.6
112.0		1.00	1.02	3.972	4.369	0.000	1.200	*	1.695	1.00	2.096	2.51	11.0	49.6	101.0
113.0		1.00	1.02	3.982	4.380	0.000	1.200	*	1.696	1.00	2.082	2.50	10.9	49.3	100.3
114.0		1.00	1.02	3.992	4.391	0.000	1.200	*	1.698	1.00	2.069	2.48	10.9	49.0	99.6
115.0		1.00	1.02	4.002	4.402	0.000	1.200	*	1.699	1.00	2.056	2.47	10.9	48.7	98.9
116.0		1.00	1.03	4.012	4.413	0.000	1.200	*	1.701	1.00	2.043	2.45	10.8	48.4	98.2
117.0		1.00	1.03	4.022	4.424	0.000	1.200	*	1.702	1.00	2.029	2.44	10.8	48.1	97.5
118.0		1.00	1.03	4.032	4.435	0.000	1.200	*	1.704	1.00	2.016	2.42	10.7	47.8	96.8
119.0		1.00	1.03	4.041	4.445	0.000	1.200	*	1.705	1.00	2.003	2.40	10.7	47.5	96.2
120.0		1.00	1.04	4.051	4.456	0.000	1.200	*	1.707	1.00	1.990	2.39	10.6	47.2	95.5
121.0		1.00	1.04	4.061	4.467	0.000	1.200	*	1.708	1.00	1.976	2.37	10.6	46.9	94.8
122.0		1.00	1.04	4.070	4.477	0.000	1.200	*	1.710	1.00	1.963	2.36	10.5	46.6	94.1
123.0		1.00	1.04	4.080	4.488	0.000	1.200	*	1.711	1.00	1.950	2.34	10.5	46.3	93.4
124.0		1.00	1.05	4.089	4.498	0.000	1.200	*	1.712	1.00	1.937	2.32	10.5	46.0	92.7
125.0		1.00	1.05	4.099	4.508	0.000	1.200	*	1.714	1.00	1.923	2.31	10.4	45.7	92.0
126.0		1.00	1.05	4.108	4.519	0.000	1.200	*	1.715	1.00	1.910	2.29	10.4	45.4	91.3
127.0		1.00	1.05	4.117	4.529	0.000	1.200	*	1.716	1.00	1.897	2.28	10.3	45.1	90.6
128.0		1.00	1.06	4.126	4.539	0.000	1.200	*	1.718	1.00	1.884	2.26	10.3	44.8	89.9
129.0		1.00	1.06	4.136	4.549	0.000	1.200	*	1.719	1.00	1.870	2.24	10.2	44.4	89.2
130.0	Appertunance(s)	1.00	1.06	4.145	4.559	0.000	1.200	*	1.720	1.00	1.857	2.23	10.2	44.1	88.5
131.0		1.00	1.06	4.154	4.569	0.000	1.200		1.722	1.00	1.844	2.21	10.1	43.8	87.8
132.0		1.00	1.07	4.163	4.579	0.000	1.200		1.723	1.00	1.831	2.20	10.1	43.5	87.2
133.0		1.00	1.07	4.172	4.589	0.000	1.200		1.724	1.00	1.817	2.18	10.0	43.2	86.5
134.0		1.00	1.07	4.181	4.599	0.000	1.200		1.726	1.00	1.804	2.16	10.0	42.9	85.8
135.0		1.00	1.07	4.190	4.609	0.000	1.200		1.727	1.00	1.791	2.15	9.9	42.6	85.1
136.0		1.00	1.07	4.199	4.618	0.000	1.200		1.728	1.00	1.778	2.13	9.9	42.2	84.4
137.0		1.00	1.08	4.207	4.628	0.000	1.200		1.729	1.00	1.764	2.12	9.8	41.9	83.6
138.0		1.00	1.08	4.216	4.638	0.000	1.200		1.731	1.00	1.751	2.10	9.7	41.6	82.9
139.0		1.00	1.08	4.225	4.647	0.000	1.200		1.732	1.00	1.738	2.09	9.7	41.3	82.2
140.0	Appertunance(s)	1.00	1.08	4.233	4.657	0.000	1.200		1.733	1.00	1.725	2.07	9.6	41.0	81.5
141.0		1.00	1.09	4.242	4.666	0.000	1.200		1.734	1.00	1.711	2.05	9.6	40.7	80.8
142.0		1.00	1.09	4.251	4.676	0.000	1.200		1.736	1.00	1.698	2.04	9.5	40.3	80.1
143.0		1.00	1.09	4.259	4.685	0.000	1.200		1.737	1.00	1.685	2.02	9.5	40.0	79.4
144.0		1.00	1.09	4.268	4.694	0.000	1.200		1.738	1.00	1.671	2.01	9.4	39.7	78.7
145.0		1.00	1.09	4.276	4.704	0.000	1.200		1.739	1.00	1.658	1.99	9.4	39.4	78.0
146.0		1.00	1.10	4.284	4.713	0.000	1.200		1.741	1.00	1.645	1.97	9.3	39.0	77.3
147.0		1.00	1.10	4.293	4.722	0.000	1.200		1.742	1.00	1.632	1.96	9.2	38.7	76.6
148.0		1.00	1.10	4.301	4.731	0.000	1.200		1.743	1.00	1.618	1.94	9.2	38.4	75.9
149.0		1.00	1.10	4.309	4.740	0.000	1.200		1.744	1.00	1.605	1.93	9.1	38.1	75.2
150.0	Appertunance(s)	1.00	1.11	4.318	4.749	0.000	1.200		1.745	1.00	1.592	1.91	9.1	37.8	74.5
Totals:										150.00			2,006.8	10,170.4	45,089.4

* = Cf Adjusted By Linear Load Ra Effect

Pole :	302523	Code: ANSI/TIA-222 Rev G	9/21/2012 10:16:29 AM
Location :	New Milford CT 2, CT	Struct Class : II	Page: 39
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		



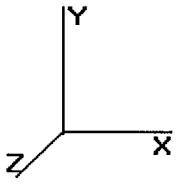
Load Case: 1.2D + 1.0Di + 1.0Wi — 40.00 mph with 0.75 in Radial Ice — 28 Iterations

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)	CaAa Factor	Ka	Total CaAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
75.00	PCTEL GPS-TMG-HR-	1	3.542	3.896	1.00	1.00	1.65	0.000	0.000	6.43	0.00	0.00	15.03
110.0	48" x 12" Panels	9	3.952	4.347	0.54	0.80	29.04	0.000	0.000	126.23	0.00	0.00	1,479.51
110.0	72" x 12" Panels	3	3.952	4.347	0.54	0.80	15.09	0.000	0.000	65.61	0.00	0.00	716.01
110.0	Round T-Arms	3	3.952	4.347	0.45	0.75	23.91	0.000	0.000	103.92	0.00	0.00	1,317.09
130.0	Antel BXA-171063-8BF	1	4.163	4.579	0.57	0.80	2.16	0.000	2.000	9.87	0.00	19.74	94.36
130.0	Antel BXA-171085-8BF	2	4.163	4.579	0.57	0.80	4.28	0.000	2.000	19.61	0.00	39.22	189.07
130.0	Antel BXA-70063/6CF	3	4.163	4.579	0.53	0.80	13.98	0.000	2.000	64.01	0.00	128.02	562.13
130.0	Antel LPA-80063/6CF	2	4.145	4.559	0.61	0.80	13.25	0.000	0.000	60.40	0.00	0.00	629.40
130.0	Antel LPA-80080/6CF	4	4.163	4.579	0.52	0.80	20.65	0.000	2.000	94.54	0.00	189.08	867.53
130.0	RFS FD9R6004/1C-3L	6	4.163	4.579	0.40	0.80	1.39	0.000	2.000	6.34	0.00	12.69	99.55
130.0	Round Low Profile Pl	1	4.145	4.559	1.00	1.00	40.66	0.000	0.000	185.40	0.00	0.00	2,240.00
140.0	Alcatel-Lucent 1900	3	4.233	4.657	0.54	0.80	4.80	0.000	0.000	22.37	0.00	0.00	499.10
140.0	Alcatel-Lucent 800 M	3	4.233	4.657	0.54	0.80	6.68	0.000	0.000	31.10	0.00	0.00	616.44
140.0	Decibel DB980H90E-M	6	4.251	4.676	0.54	0.80	15.89	0.000	2.000	74.30	0.00	148.61	620.06
140.0	RFS APXVSPP18-C-	3	4.233	4.657	0.66	0.80	18.54	0.000	0.000	86.32	0.00	0.00	799.35
140.0	Round Low Profile Pl	1	4.251	4.676	0.90	1.00	30.46	0.000	2.000	142.44	0.00	284.88	1,455.80
150.0	Andrew ABT-DMDM-	6	4.350	4.785	0.40	0.80	0.33	0.000	4.000	1.58	0.00	6.33	40.60
150.0	Ericsson RRUS 11	6	4.350	4.785	0.54	0.80	10.36	0.000	4.000	49.57	0.00	198.27	848.98
150.0	KMW AM-X-CD-16-65-	3	4.350	4.785	0.63	0.80	17.66	0.000	4.000	84.51	0.00	338.05	741.07
150.0	Powerwave 7770.00A	6	4.350	4.785	0.61	0.80	23.95	0.000	4.000	114.61	0.00	458.43	1,063.04
150.0	Powerwave TT19-	6	4.350	4.785	0.40	0.80	2.14	0.000	4.000	10.26	0.00	41.05	281.44
150.0	Round Low Profile Pl	1	4.326	4.759	0.90	1.00	36.84	0.000	1.000	175.32	0.00	175.32	2,249.22
										1,534.75			17,424.79

Pole :	302523	Code: ANSI/TIA-222 Rev G	9/21/2012 10:16:29 AM
Location :	New Milford CT 2, CT	Struct Class : II	Page: 40
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		



Load Case: 1.2D + 1.0Di + 1.0Wi — 40.00 mph with 0.75 in Radial Ice — 28 Iterations

Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

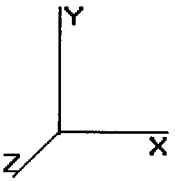
Wind Load Factor : 1.00

Linear Appurtenance Segment Forces (Factored)

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	qz (psf)	Ra	Cf Adjust Factor	F X (lb)	Dead Load (lb)
6.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.28	2.56	2.724	0.244	0.000	7.68	94.98
6.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.724	0.244	0.000	0.00	2.79
7.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.28	2.57	2.724	0.247	0.000	7.69	95.24
7.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.724	0.247	0.000	0.00	2.86
8.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.29	2.57	2.724	0.250	0.000	7.71	95.46
8.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.724	0.250	0.000	0.00	2.92
9.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.29	2.58	2.724	0.253	0.000	7.73	95.67
9.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.724	0.253	0.000	0.00	2.98
10.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.29	2.58	2.724	0.256	0.000	7.74	95.85
10.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.724	0.256	0.000	0.00	3.03
11.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.29	2.59	2.724	0.259	0.000	7.75	96.02
11.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.724	0.259	0.000	0.00	3.08
12.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.30	2.59	2.724	0.262	0.000	7.77	96.18
12.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.724	0.262	0.000	0.00	3.12
13.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.30	2.60	2.724	0.265	0.000	7.78	96.32
13.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.724	0.265	0.000	0.00	3.16
14.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.30	2.60	2.724	0.268	0.000	7.79	96.46
14.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.724	0.268	0.000	0.00	3.20
15.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.30	2.60	2.724	0.272	0.000	7.80	96.58
15.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.724	0.272	0.000	0.00	3.24
16.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.30	2.61	2.724	0.272	0.000	7.81	96.70
16.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.724	0.272	0.000	0.00	3.28
17.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.30	2.61	2.724	0.273	0.000	7.81	96.82
17.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.724	0.273	0.000	0.00	3.31
18.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.31	2.61	2.724	0.274	0.000	7.82	96.93
18.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.724	0.274	0.000	0.00	3.34
19.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.31	2.61	2.724	0.275	0.000	7.83	97.03
19.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.724	0.275	0.000	0.00	3.37
20.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.31	2.62	2.724	0.276	0.000	7.84	97.13
20.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.724	0.276	0.000	0.00	3.40
21.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.31	2.62	2.724	0.277	0.000	7.84	97.22
21.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.724	0.277	0.000	0.00	3.43
22.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.31	2.62	2.724	0.278	0.000	7.85	97.31
22.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.724	0.278	0.000	0.00	3.45
23.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.31	2.62	2.724	0.279	0.000	7.86	97.40
23.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.724	0.279	0.000	0.00	3.48
24.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.31	2.62	2.724	0.280	0.000	7.86	97.48
24.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.724	0.280	0.000	0.00	3.50
25.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.31	2.63	2.724	0.282	0.000	7.87	97.56
25.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.724	0.282	0.000	0.00	3.53
26.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.31	2.63	2.724	0.283	0.000	7.87	97.64
26.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.724	0.283	0.000	0.00	3.55
27.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.32	2.63	2.724	0.284	0.000	7.88	97.71
27.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.724	0.284	0.000	0.00	3.57
28.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.32	2.63	2.724	0.285	0.000	7.89	97.79
28.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.724	0.285	0.000	0.00	3.60
29.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.32	2.63	2.724	0.286	0.000	7.89	97.86
29.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.724	0.286	0.000	0.00	3.62
30.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.32	2.64	2.726	0.287	0.000	7.90	97.93
30.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.726	0.287	0.000	0.00	3.64
31.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.32	2.64	2.752	0.288	0.000	7.98	97.99

Pole : 302523
Location : New Milford CT 2, CT
Height : 150.0 (ft)
Base Dia : 53.90 (in)
Top Dia : 15.00 (in)
Shape : 12 Sides
Taper : 0.156700 (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 — 40.00 mph with 0.75 in Radial Ice — 28 Iterations

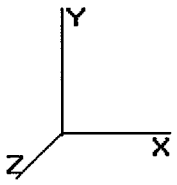
Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.00

Ice Dead Load Factor : 1.00

Wind Importance Factor : 1.00
Ice Importance Factor : 1.00

31.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.752	0.288	0.000	0.00	3.66
32.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.32	2.64	2.777	0.289	0.000	8.06	98.06
32.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.777	0.289	0.000	0.00	3.68
33.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.32	2.64	2.801	0.290	0.000	8.14	98.12
33.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.801	0.290	0.000	0.00	3.70
34.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.32	2.64	2.825	0.291	0.000	8.21	98.18
34.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.825	0.291	0.000	0.00	3.72
35.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.32	2.64	2.849	0.292	0.000	8.28	98.24
35.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.849	0.292	0.000	0.00	3.73
36.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.32	2.64	2.872	0.293	0.000	8.35	98.30
36.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.872	0.293	0.000	0.00	3.75
37.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.32	2.65	2.894	0.295	0.000	8.42	98.36
37.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.894	0.295	0.000	0.00	3.77
38.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.32	2.65	2.917	0.296	0.000	8.49	98.41
38.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.917	0.296	0.000	0.00	3.79
39.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.32	2.65	2.938	0.297	0.000	8.56	98.47
39.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.938	0.297	0.000	0.00	3.80
40.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.32	2.65	2.960	0.298	0.000	8.63	98.52
40.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.960	0.298	0.000	0.00	3.82
41.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.33	2.65	2.981	0.299	0.000	8.69	98.57
41.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	2.981	0.299	0.000	0.00	3.83
42.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.33	2.65	3.001	0.300	0.000	8.76	98.62
42.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.001	0.300	0.000	0.00	3.85
43.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.33	2.65	3.021	0.302	0.000	8.82	98.67
43.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.021	0.302	0.000	0.00	3.87
44.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.33	2.65	3.041	0.303	0.000	8.88	98.72
44.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.041	0.303	0.000	0.00	3.88
45.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.33	2.66	3.061	0.304	0.000	8.94	98.77
45.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.061	0.304	0.000	0.00	3.90
46.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.33	2.66	3.080	0.305	0.000	9.00	98.82
46.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.080	0.305	0.000	0.00	3.91
47.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.33	2.66	3.099	0.306	0.000	9.06	98.86
47.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.099	0.306	0.000	0.00	3.92
48.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.33	2.66	3.118	0.308	0.000	9.12	98.91
48.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.118	0.308	0.000	0.00	3.94
49.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.33	2.66	3.136	0.309	0.000	9.18	98.95
49.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.136	0.309	0.000	0.00	3.95
50.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.33	2.66	3.155	0.310	0.000	9.23	98.99
50.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.155	0.310	0.000	0.00	3.97
51.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.33	2.66	3.172	0.311	0.000	9.29	99.04
51.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.172	0.311	0.000	0.00	3.98
52.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.33	2.66	3.190	0.313	0.000	9.35	99.08
52.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.190	0.313	0.000	0.00	3.99
53.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.33	2.66	3.207	0.314	0.000	9.40	99.12
53.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.207	0.314	0.000	0.00	4.01
54.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.33	2.67	3.225	0.315	0.000	9.45	99.16
54.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.225	0.315	0.000	0.00	4.02
55.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.33	2.67	3.242	0.317	0.000	9.51	99.20
55.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.242	0.317	0.000	0.00	4.03
56.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.33	2.67	3.258	0.315	0.000	9.56	99.24
56.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.258	0.315	0.000	0.00	4.04
57.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.33	2.67	3.275	0.317	0.000	9.61	99.28
57.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.275	0.317	0.000	0.00	4.06
58.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.33	2.67	3.291	0.318	0.000	9.66	99.32
58.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.291	0.318	0.000	0.00	4.07
59.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.33	2.67	3.307	0.319	0.000	9.71	99.36
59.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.307	0.319	0.000	0.00	4.08

Pole :	302523	Code: ANSI/TIA-222 Rev G			9/21/2012 10:16:29 AM
Location :	New Milford CT 2, CT	Struct Class : II			Page: 42
Height :	150.0 (ft)	Exposure Category : B			
Base Dia :	53.90 (in)	Topographic Category : 1			
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)			
Shape :	12 Sides				
Taper :	0.156700 (in/ft)				



Load Case: 1.2D + 1.0Di + 1.0Wi — 40.00 mph with 0.75 in Radial Ice — 28 Iterations

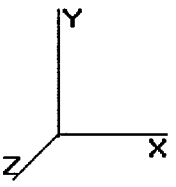
Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

60.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.34	2.67	3.323	0.321	0.000	9.76	99.39
60.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.323	0.321	0.000	0.00	4.09
61.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.34	2.67	3.339	0.322	0.000	9.81	99.43
61.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.339	0.322	0.000	0.00	4.10
62.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.34	2.67	3.354	0.324	0.000	9.86	99.47
62.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.354	0.324	0.000	0.00	4.11
63.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.34	2.67	3.370	0.325	0.000	9.91	99.50
63.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.370	0.325	0.000	0.00	4.13
64.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.34	2.67	3.385	0.326	0.000	9.96	99.54
64.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.385	0.326	0.000	0.00	4.14
65.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.34	2.68	3.400	0.328	0.000	10.00	99.57
65.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.400	0.328	0.000	0.00	4.15
66.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.34	2.68	3.415	0.329	0.000	10.05	99.60
66.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.415	0.329	0.000	0.00	4.16
67.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.34	2.68	3.430	0.331	0.000	10.10	99.64
67.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.430	0.331	0.000	0.00	4.17
68.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.34	2.68	3.444	0.332	0.000	10.14	99.67
68.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.444	0.332	0.000	0.00	4.18
69.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.34	2.68	3.459	0.333	0.000	10.19	99.70
69.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.459	0.333	0.000	0.00	4.19
70.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.34	2.68	3.473	0.335	0.000	10.23	99.74
70.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.473	0.335	0.000	0.00	4.20
71.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.34	2.68	3.487	0.336	0.000	10.28	99.77
71.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.487	0.336	0.000	0.00	4.21
72.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.34	2.68	3.501	0.338	0.000	10.32	99.80
72.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.501	0.338	0.000	0.00	4.22
73.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.34	2.68	3.515	0.339	0.000	10.37	99.83
73.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.515	0.339	0.000	0.00	4.23
74.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.34	2.68	3.528	0.341	0.000	10.41	99.86
74.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.528	0.341	0.000	0.00	4.24
75.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.34	2.68	3.542	0.342	0.000	10.45	99.89
75.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	3.542	0.342	0.000	0.00	4.25
76.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.34	2.68	3.555	0.344	0.000	10.50	99.92
77.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.34	2.68	3.569	0.346	0.000	10.54	99.95
78.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.34	2.68	3.582	0.347	0.000	10.58	99.98
79.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.34	2.69	3.595	0.349	0.000	10.62	100.01
80.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.69	1.38	3.608	0.487	0.000	5.48	74.53
80.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.34	2.69	3.608	0.487	0.000	10.66	100.04
81.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.69	1.38	3.621	0.489	0.000	5.50	74.55
81.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.34	2.69	3.621	0.489	0.000	10.70	100.07
82.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.69	1.38	3.633	0.491	0.000	5.52	74.57
82.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.34	2.69	3.633	0.491	0.000	10.74	100.10
83.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.69	1.38	3.646	0.494	0.000	5.54	74.59
83.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.34	2.69	3.646	0.494	0.000	10.78	100.12
84.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.69	1.38	3.659	0.496	0.000	5.56	74.61
84.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.34	2.69	3.659	0.496	0.000	10.82	100.15
84.11	(3) #20 Dywidag Bars	Yes	0.11	2.000	5.00	0.08	0.15	3.660	0.497	0.000	0.61	8.20
84.11	(2) Seam Flange	Yes	0.11	2.000	12.84	0.15	0.30	3.660	0.497	0.000	1.19	11.01
85.00	(3) #20 Dywidag Bars	Yes	0.89	2.000	5.00	0.62	1.23	3.671	0.498	0.000	4.97	66.42
85.00	(2) Seam Flange	Yes	0.89	2.000	12.84	1.20	2.39	3.671	0.498	0.000	9.67	89.17
86.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.683	0.498	0.000	2.95	49.57
86.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.683	0.498	0.000	2.95	49.57
86.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.69	1.38	3.683	0.498	0.000	5.61	74.64
87.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.695	0.501	0.000	2.96	49.61
87.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.695	0.501	0.000	2.96	49.61
87.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.69	1.38	3.695	0.501	0.000	5.63	74.66
88.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.707	0.504	0.000	2.97	49.65

Pole :	302523	Code: ANSI/TIA-222 Rev G			9/21/2012 10:16:30 AM
Location :	New Milford CT 2, CT	Struct Class : II			Page: 43
Height :	150.0 (ft)	Exposure Category : B			
Base Dia :	53.90 (in)	Topographic Category : 1			
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)			
Shape :	12 Sides				
Taper :	0.156700 (in/ft)				



Load Case: 1.2D + 1.0Di + 1.0Wi — 40.00 mph with 0.75 in Radial Ice — 28 Iterations

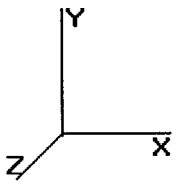
Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

88.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.707	0.504	0.000	2.97	49.65
88.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.69	1.38	3.707	0.504	0.000	5.65	74.68
89.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.719	0.507	0.000	2.98	49.70
89.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.719	0.507	0.000	2.98	49.70
89.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.69	1.39	3.719	0.507	0.000	5.67	74.70
90.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.731	0.511	0.000	2.99	49.74
90.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.731	0.511	0.000	2.99	49.74
90.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.69	1.39	3.731	0.511	0.000	5.69	74.72
91.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.743	0.514	0.000	3.01	49.78
91.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.743	0.514	0.000	3.01	49.78
91.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.69	1.39	3.743	0.514	0.000	5.71	74.74
92.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.755	0.517	0.000	3.02	49.82
92.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.755	0.517	0.000	3.02	49.82
92.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.69	1.39	3.755	0.517	0.000	5.73	74.75
93.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.766	0.521	0.000	3.03	49.86
93.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.766	0.521	0.000	3.03	49.86
93.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.69	1.39	3.766	0.521	0.000	5.75	74.77
94.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.778	0.524	0.000	3.04	49.90
94.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.778	0.524	0.000	3.04	49.90
94.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.69	1.39	3.778	0.524	0.000	5.77	74.79
95.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.789	0.528	0.000	3.05	49.94
95.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.789	0.528	0.000	3.05	49.94
95.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.69	1.39	3.789	0.528	0.000	5.79	74.81
95.50	(12) 1 5/8" Coax	Yes	0.50	1.200	3.98	0.30	0.37	3.795	0.530	0.000	1.53	24.98
95.50	(12) 1 5/8" Coax	Yes	0.50	1.200	3.98	0.30	0.37	3.795	0.530	0.000	1.53	24.98
95.50	(3) #20 Dywidag Bars	Yes	0.50	2.000	5.00	0.35	0.69	3.795	0.530	0.000	2.90	37.41
96.00	(12) 1 5/8" Coax	Yes	0.50	1.200	3.98	0.30	0.37	3.801	0.532	0.000	1.53	24.99
96.00	(12) 1 5/8" Coax	Yes	0.50	1.200	3.98	0.30	0.37	3.801	0.532	0.000	1.53	24.99
96.00	(3) #20 Dywidag Bars	Yes	0.50	2.000	5.00	0.35	0.69	3.801	0.532	0.000	2.91	37.41
97.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.812	0.535	0.000	3.07	50.02
97.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.812	0.535	0.000	3.07	50.02
97.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.70	1.39	3.812	0.535	0.000	5.83	74.84
98.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.823	0.539	0.000	3.08	50.06
98.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.823	0.539	0.000	3.08	50.06
98.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.70	1.39	3.823	0.539	0.000	5.85	74.86
99.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.834	0.542	0.000	3.09	50.10
99.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.834	0.542	0.000	3.09	50.10
99.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.70	1.39	3.834	0.542	0.000	5.87	74.87
100.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.845	0.546	0.000	3.10	50.13
100.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.845	0.546	0.000	3.10	50.13
100.0	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.70	1.39	3.845	0.546	0.000	5.89	74.89
101.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.856	0.338	0.000	3.11	50.17
101.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.856	0.338	0.000	3.11	50.17
102.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.867	0.340	0.000	3.12	50.21
102.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.867	0.340	0.000	3.12	50.21
103.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.878	0.343	0.000	3.13	50.25
103.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.878	0.343	0.000	3.13	50.25
104.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.889	0.345	0.000	3.14	50.28
104.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.889	0.345	0.000	3.14	50.28
105.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.899	0.348	0.000	3.15	50.32
105.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.73	3.899	0.348	0.000	3.15	50.32
106.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.74	3.910	0.350	0.000	3.16	50.36
106.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.74	3.910	0.350	0.000	3.16	50.36
107.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.74	3.920	0.353	0.000	3.17	50.39
107.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.74	3.920	0.353	0.000	3.17	50.39
108.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.74	3.931	0.355	0.000	3.18	50.43
108.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.74	3.931	0.355	0.000	3.18	50.43

Pole : 302523	Code: ANSI/TIA-222 Rev G		9/21/2012 10:16:30 AM
Location : New Milford CT 2, CT	Struct Class : II		Page: 44
Height : 150.0 (ft)	Exposure Category : B		
Base Dia : 53.90 (in)	Topographic Category : 1		
Top Dia : 15.00 (in)	Base Elev : 0.000 (ft)		
Shape : 12 Sides			
Taper : 0.156700 (in/ft)			



Load Case: 1.2D + 1.0Di + 1.0Wi — 40.00 mph with 0.75 in Radial Ice — 28 Iterations

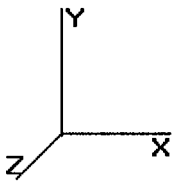
Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

109.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.74	3.941	0.358	0.000	3.19	50.46
109.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.74	3.941	0.358	0.000	3.19	50.46
110.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.74	3.952	0.360	0.000	3.20	50.50
110.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.61	0.74	3.952	0.360	0.000	3.20	50.50
111.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.61	0.00	3.962	0.182	1.245	0.00	50.53
112.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.61	0.00	3.972	0.183	1.249	0.00	50.57
113.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.61	0.00	3.982	0.184	1.253	0.00	50.60
114.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.61	0.00	3.992	0.186	1.257	0.00	50.63
115.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.61	0.00	4.002	0.187	1.261	0.00	50.67
116.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.62	0.00	4.012	0.189	1.266	0.00	50.70
117.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.62	0.00	4.022	0.190	1.270	0.00	50.73
118.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.62	0.00	4.032	0.191	1.274	0.00	50.77
119.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.62	0.00	4.041	0.193	1.279	0.00	50.80
120.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.62	0.00	4.051	0.194	1.283	0.00	50.83
121.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.62	0.00	4.061	0.196	1.288	0.00	50.86
122.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.62	0.00	4.070	0.198	1.293	0.00	50.90
123.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.62	0.00	4.080	0.199	1.298	0.00	50.93
124.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.62	0.74	4.089	0.201	0.000	3.33	50.96
125.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.62	0.74	4.099	0.203	0.000	3.34	50.99
126.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.62	0.74	4.108	0.204	0.000	3.35	51.02
127.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.62	0.74	4.117	0.206	0.000	3.36	51.05
128.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.62	0.74	4.126	0.208	0.000	3.37	51.08
129.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.62	0.74	4.136	0.209	0.000	3.37	51.11
130.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.62	0.74	4.145	0.211	0.000	3.38	51.14
										Totals:	1,019.11	13,227.70

Pole :	302523	Code: ANSI/TIA-222 Rev G	
Location :	New Milford CT 2, CT	Struct Class : II	
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		



Load Case: 1.2D + 1.0Di + 1.0Wi — 40.00 mph with 0.75 in Radial Ice — 28 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.00

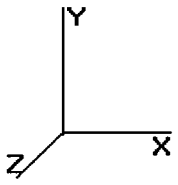
Ice Dead Load Factor : 1.00

Wind Importance Factor : 1.00
Ice Importance 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
1.00	17.26	595.84	0.00	0.00
2.00	17.13	594.87	0.00	0.00
3.00	16.99	591.75	0.00	0.00
4.00	16.83	587.70	0.00	0.00
5.00	16.67	583.12	0.00	0.00
6.00	24.19	728.73	0.00	0.00
7.00	24.04	723.87	0.00	0.00
8.00	23.89	718.79	0.00	0.00
9.00	23.74	713.52	0.00	0.00
10.00	23.59	708.12	0.00	0.00
11.00	23.43	702.60	0.00	0.00
12.00	23.27	696.98	0.00	0.00
13.00	23.12	691.27	0.00	0.00
14.00	22.96	685.49	0.00	0.00
15.00	22.80	679.64	0.00	0.00
16.00	22.76	642.64	0.00	0.00
17.00	22.72	641.55	0.00	0.00
18.00	22.69	640.42	0.00	0.00
19.00	22.65	639.26	0.00	0.00
20.00	22.61	638.07	0.00	0.00
21.00	22.57	636.85	0.00	0.00
22.00	22.53	635.61	0.00	0.00
23.00	22.49	634.34	0.00	0.00
24.00	22.45	633.05	0.00	0.00
25.00	22.41	631.74	0.00	0.00
26.00	22.37	630.41	0.00	0.00
27.00	22.33	629.06	0.00	0.00
28.00	22.28	627.70	0.00	0.00
29.00	22.24	626.32	0.00	0.00
30.00	22.22	624.93	0.00	0.00
31.00	22.38	623.53	0.00	0.00
32.00	22.55	622.11	0.00	0.00
33.00	22.70	620.68	0.00	0.00
34.00	22.85	619.24	0.00	0.00
35.00	22.99	617.79	0.00	0.00
36.00	23.13	616.33	0.00	0.00
37.00	23.27	614.85	0.00	0.00
38.00	23.40	613.37	0.00	0.00
39.00	23.53	611.88	0.00	0.00
40.00	23.65	610.39	0.00	0.00
41.00	23.77	608.88	0.00	0.00
42.00	23.88	607.37	0.00	0.00
43.00	24.00	605.85	0.00	0.00
44.00	24.10	604.32	0.00	0.00
45.00	24.21	602.78	0.00	0.00
46.00	24.31	601.24	0.00	0.00
47.00	24.41	599.70	0.00	0.00
48.00	24.50	598.14	0.00	0.00
49.00	24.60	596.58	0.00	0.00

Pole :	302523	Code: ANSI/TIA-222 Rev G	9/21/2012 10:16:30 AM
Location :	New Milford CT 2, CT	Struct Class : II	Page: 46
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		



Load Case: 1.2D + 1.0Di + 1.0Wi — 40.00 mph with 0.75 in Radial Ice — 28 Iterations

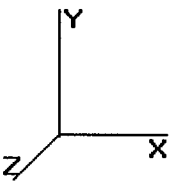
Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

50.00	24.69	595.02	0.00	0.00
51.00	24.77	593.45	0.00	0.00
52.00	24.86	591.87	0.00	0.00
53.00	24.94	590.29	0.00	0.00
54.00	25.02	588.71	0.00	0.00
55.00	25.10	587.12	0.00	0.00
56.00	25.28	557.61	0.00	0.00
57.00	25.36	556.14	0.00	0.00
58.00	25.43	554.66	0.00	0.00
59.00	25.49	553.18	0.00	0.00
60.00	25.56	551.69	0.00	0.00
61.00	25.62	550.20	0.00	0.00
62.00	25.69	548.71	0.00	0.00
63.00	25.75	547.21	0.00	0.00
64.00	25.80	545.71	0.00	0.00
65.00	25.86	544.21	0.00	0.00
66.00	25.92	542.70	0.00	0.00
67.00	25.97	541.19	0.00	0.00
68.00	26.02	539.67	0.00	0.00
69.00	26.07	538.16	0.00	0.00
70.00	26.12	536.64	0.00	0.00
71.00	26.16	535.11	0.00	0.00
72.00	26.21	533.59	0.00	0.00
73.00	26.25	532.06	0.00	0.00
74.00	26.29	530.52	0.00	0.00
75.00	32.76	544.02	0.00	0.00
76.00	26.37	465.79	0.00	0.00
77.00	26.40	464.50	0.00	0.00
78.00	26.44	463.22	0.00	0.00
79.00	26.47	461.93	0.00	0.00
80.00	31.98	535.17	0.00	0.00
81.00	32.03	533.90	0.00	0.00
82.00	32.09	532.63	0.00	0.00
83.00	32.14	531.35	0.00	0.00
84.00	32.19	530.07	0.00	0.00
84.11	3.53	58.19	0.00	0.00
85.00	28.69	515.22	0.00	0.00
86.00	23.39	391.96	0.00	0.00
87.00	23.41	391.28	0.00	0.00
88.00	23.43	390.58	0.00	0.00
89.00	23.44	389.89	0.00	0.00
90.00	23.46	389.19	0.00	0.00
91.00	23.47	388.49	0.00	0.00
92.00	23.48	387.79	0.00	0.00
93.00	23.49	387.09	0.00	0.00
94.00	23.50	386.38	0.00	0.00
95.00	23.51	385.67	0.00	0.00
95.50	11.75	192.59	0.00	0.00
96.00	11.75	167.36	0.00	0.00
97.00	23.53	334.15	0.00	0.00
98.00	23.54	333.43	0.00	0.00
99.00	23.54	332.71	0.00	0.00
100.0	23.55	332.00	0.00	0.00
101.0	17.64	256.37	0.00	0.00
102.0	17.63	255.63	0.00	0.00
103.0	17.61	254.89	0.00	0.00
104.0	17.59	254.14	0.00	0.00

Pole :	302523	Code: ANSI/TIA-222 Rev G	9/21/2012 10:16:30 AM
Location :	New Milford CT 2, CT	Struct Class : II	Page: 47
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		



Load Case: 1.2D + 1.0Di + 1.0Wi — 40.00 mph with 0.75 in Radial Ice — 28 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

105.0		17.57	253.40	0.00	0.00
106.0		17.55	252.65	0.00	0.00
107.0		17.53	251.90	0.00	0.00
108.0		17.51	251.15	0.00	0.00
109.0		17.49	250.40	0.00	0.00
110.0		313.22	3,762.25	0.00	0.00
111.0		11.03	181.33	0.00	0.00
112.0		10.99	180.69	0.00	0.00
113.0		10.95	180.04	0.00	0.00
114.0		10.90	179.39	0.00	0.00
115.0		10.86	178.74	0.00	0.00
116.0		10.82	178.09	0.00	0.00
117.0		10.77	177.44	0.00	0.00
118.0		10.73	176.79	0.00	0.00
119.0		10.68	176.13	0.00	0.00
120.0		10.64	175.47	0.00	0.00
121.0		10.59	174.82	0.00	0.00
122.0		10.55	174.16	0.00	0.00
123.0		10.50	173.50	0.00	0.00
124.0		13.78	172.84	0.00	0.00
125.0		13.75	172.18	0.00	0.00
126.0		13.71	171.52	0.00	0.00
127.0		13.67	170.85	0.00	0.00
128.0		13.63	170.19	0.00	0.00
129.0		13.59	169.52	0.00	0.00
130.0		453.72	4,850.91	0.00	388.74
131.0		10.11	117.02	0.00	0.00
132.0		10.06	116.32	0.00	0.00
133.0		10.01	115.62	0.00	0.00
134.0		9.96	114.92	0.00	0.00
135.0		9.90	114.22	0.00	0.00
136.0		9.85	113.52	0.00	0.00
137.0		9.80	112.82	0.00	0.00
138.0		9.74	112.12	0.00	0.00
139.0		9.69	111.41	0.00	0.00
140.0		366.17	4,101.46	0.00	433.48
141.0		9.58	100.50	0.00	0.00
142.0		9.53	99.80	0.00	0.00
143.0		9.47	99.09	0.00	0.00
144.0		9.42	98.38	0.00	0.00
145.0		9.36	97.67	0.00	0.00
146.0		9.30	96.97	0.00	0.00
147.0		9.25	96.26	0.00	0.00
148.0		9.19	95.55	0.00	0.00
149.0		9.13	94.84	0.00	0.00
150.0		444.93	5,318.48	0.00	1,217.46
	Totals:	4,560.66	81,765.56	0.00	2,039.68

Pole :	302523	Code: ANSI/TIA-222 Rev G	9/21/2012 10:16:30 AM
Location :	New Milford CT 2, CT	Struct Class : II	Page: 48
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
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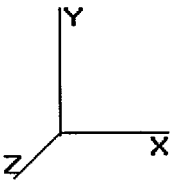

Load Case: 1.2D + 1.0Di + 1.0Wi — 40.00 mph with 0.75 in Radial Ice — 28 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.00

Ice Dead Load Factor : 1.00

Wind Importance Factor : 1.00
Ice 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	-81.77	-4.56	0.00	-432.35	0.00	432.35	5,589.22	2,794.61	12,188.1	6,019.28	0.00	0.00	0.086
1.00	-81.17	-4.55	0.00	-427.79	0.00	427.79	5,529.59	2,764.80	11,927.7	5,890.65	0.00	0.00	0.087
2.00	-80.57	-4.53	0.00	-423.24	0.00	423.24	5,469.96	2,734.98	11,670.0	5,763.42	0.00	-0.01	0.088
3.00	-79.98	-4.52	0.00	-418.71	0.00	418.71	5,410.34	2,705.17	11,415.2	5,637.57	0.00	-0.01	0.089
4.00	-79.39	-4.51	0.00	-414.18	0.00	414.18	5,350.71	2,675.36	11,163.2	5,513.11	0.00	-0.01	0.090
5.00	-78.81	-4.50	0.00	-409.68	0.00	409.68	5,291.09	2,645.54	10,914.0	5,390.04	0.01	-0.01	0.091
6.00	-78.08	-4.47	0.00	-405.18	0.00	405.18	5,231.46	2,615.73	10,667.6	5,268.37	0.01	-0.02	0.092
7.00	-77.36	-4.45	0.00	-400.71	0.00	400.71	5,171.84	2,585.92	10,424.1	5,148.08	0.01	-0.02	0.093
8.00	-76.64	-4.43	0.00	-396.25	0.00	396.25	5,112.21	2,556.11	10,183.3	5,029.18	0.02	-0.02	0.094
9.00	-75.93	-4.41	0.00	-391.82	0.00	391.82	5,052.58	2,526.29	9,945.41	4,911.66	0.02	-0.03	0.095
10.00	-75.22	-4.40	0.00	-387.40	0.00	387.40	4,992.96	2,496.48	9,710.28	4,795.54	0.03	-0.03	0.096
11.00	-74.51	-4.38	0.00	-383.01	0.00	383.01	4,933.33	2,466.67	9,477.97	4,680.81	0.04	-0.03	0.097
12.00	-73.82	-4.36	0.00	-378.63	0.00	378.63	4,873.71	2,436.85	9,248.46	4,567.47	0.04	-0.04	0.098
13.00	-73.13	-4.34	0.00	-374.28	0.00	374.28	4,814.08	2,407.04	9,021.78	4,455.52	0.05	-0.04	0.099
14.00	-72.44	-4.32	0.00	-369.94	0.00	369.94	4,754.46	2,377.23	8,797.90	4,344.95	0.06	-0.04	0.100
15.00	-71.76	-4.30	0.00	-365.62	0.00	365.62	4,694.83	2,347.42	8,576.84	4,235.78	0.07	-0.05	0.102
15.00	-71.76	-4.30	0.00	-365.62	0.00	365.62	4,521.17	2,260.59	8,321.30	4,109.58	0.07	-0.05	0.105
16.00	-71.12	-4.28	0.00	-361.32	0.00	361.32	4,504.82	2,252.41	8,260.75	4,079.67	0.08	-0.05	0.104
17.00	-70.47	-4.26	0.00	-357.04	0.00	357.04	4,488.46	2,244.23	8,200.41	4,049.87	0.09	-0.05	0.104
18.00	-69.83	-4.24	0.00	-352.77	0.00	352.77	4,472.10	2,236.05	8,140.29	4,020.18	0.10	-0.06	0.103
19.00	-69.19	-4.23	0.00	-348.53	0.00	348.53	4,455.74	2,227.87	8,080.40	3,990.60	0.12	-0.06	0.103
20.00	-68.56	-4.21	0.00	-344.30	0.00	344.30	4,439.38	2,219.69	8,020.72	3,961.13	0.13	-0.07	0.102
21.00	-67.92	-4.19	0.00	-340.10	0.00	340.10	4,423.02	2,211.51	7,961.27	3,931.77	0.14	-0.07	0.102
22.00	-67.28	-4.17	0.00	-335.91	0.00	335.91	4,406.67	2,203.33	7,902.04	3,902.52	0.16	-0.07	0.101
23.00	-66.65	-4.15	0.00	-331.74	0.00	331.74	4,390.31	2,195.15	7,843.03	3,873.38	0.17	-0.08	0.101
24.00	-66.02	-4.13	0.00	-327.58	0.00	327.58	4,373.95	2,186.97	7,784.24	3,844.34	0.19	-0.08	0.100
25.00	-65.38	-4.11	0.00	-323.45	0.00	323.45	4,357.59	2,178.80	7,725.67	3,815.42	0.21	-0.09	0.100
26.00	-64.75	-4.10	0.00	-319.34	0.00	319.34	4,341.23	2,170.62	7,667.32	3,786.60	0.23	-0.09	0.099
27.00	-64.12	-4.08	0.00	-315.24	0.00	315.24	4,324.87	2,162.44	7,609.20	3,757.90	0.25	-0.09	0.099
28.00	-63.50	-4.06	0.00	-311.16	0.00	311.16	4,308.52	2,154.26	7,551.29	3,729.30	0.27	-0.10	0.098
29.00	-62.87	-4.04	0.00	-307.11	0.00	307.11	4,292.16	2,146.08	7,493.61	3,700.81	0.29	-0.10	0.098
30.00	-62.24	-4.02	0.00	-303.07	0.00	303.07	4,275.80	2,137.90	7,436.15	3,672.43	0.31	-0.11	0.097
31.00	-61.62	-4.00	0.00	-299.05	0.00	299.05	4,259.44	2,129.72	7,378.91	3,644.16	0.33	-0.11	0.097
32.00	-61.00	-3.98	0.00	-295.05	0.00	295.05	4,243.08	2,121.54	7,321.89	3,616.00	0.36	-0.11	0.096
33.00	-60.38	-3.96	0.00	-291.07	0.00	291.07	4,226.72	2,113.36	7,265.09	3,587.95	0.38	-0.12	0.095
34.00	-59.76	-3.94	0.00	-287.11	0.00	287.11	4,210.37	2,105.18	7,208.51	3,560.01	0.41	-0.12	0.095
35.00	-59.14	-3.92	0.00	-283.17	0.00	283.17	4,194.01	2,097.00	7,152.15	3,532.18	0.43	-0.13	0.094
36.00	-58.52	-3.90	0.00	-279.25	0.00	279.25	4,177.65	2,088.82	7,096.02	3,504.46	0.46	-0.13	0.094
37.00	-57.91	-3.88	0.00	-275.35	0.00	275.35	4,161.29	2,080.65	7,040.10	3,476.84	0.49	-0.13	0.093
38.00	-57.29	-3.86	0.00	-271.47	0.00	271.47	4,144.93	2,072.47	6,984.41	3,449.34	0.52	-0.14	0.093
39.00	-56.68	-3.84	0.00	-267.61	0.00	267.61	4,128.57	2,064.29	6,928.94	3,421.94	0.55	-0.14	0.092
40.00	-56.07	-3.82	0.00	-263.77	0.00	263.77	4,112.22	2,056.11	6,873.69	3,394.66	0.58	-0.15	0.091
41.00	-55.46	-3.79	0.00	-259.95	0.00	259.95	4,095.86	2,047.93	6,818.66	3,367.48	0.61	-0.15	0.091
42.00	-54.85	-3.77	0.00	-256.16	0.00	256.16	4,079.50	2,039.75	6,763.85	3,340.41	0.64	-0.15	0.090
43.00	-54.25	-3.75	0.00	-252.39	0.00	252.39	4,063.14	2,031.57	6,709.27	3,313.46	0.67	-0.16	0.090
44.00	-53.64	-3.73	0.00	-248.64	0.00	248.64	4,046.78	2,023.39	6,654.90	3,286.61	0.70	-0.16	0.089
45.00	-53.04	-3.71	0.00	-244.91	0.00	244.91	4,030.42	2,015.21	6,600.76	3,259.87	0.74	-0.16	0.088
46.00	-52.44	-3.68	0.00	-241.20	0.00	241.20	4,014.07	2,007.03	6,546.84	3,233.24	0.77	-0.17	0.088
47.00	-51.84	-3.66	0.00	-237.52	0.00	237.52	3,997.71	1,998.85	6,493.13	3,206.71	0.81	-0.17	0.087
48.00	-51.24	-3.64	0.00	-233.86	0.00	233.86	3,981.35	1,990.67	6,439.65	3,180.30	0.85	-0.18	0.086
49.00	-50.65	-3.61	0.00	-230.22	0.00	230.22	3,964.99	1,982.50	6,386.39	3,154.00	0.88	-0.18	0.086

Pole :	302523	Code:	ANSI/TIA-222 Rev G		9/21/2012 10:16:30 AM
Location :	New Milford CT 2, CT	Struct Class :	II		Page: 49
Height :	150.0 (ft)	Exposure Category :	B		
Base Dia :	53.90 (in)	Topographic Category :	1		
Top Dia :	15.00 (in)	Base Elev :	0.000 (ft)		
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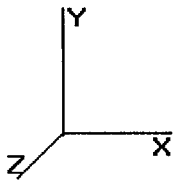


Load Case: 1.2D + 1.0Di + 1.0Wi — 40.00 mph with 0.75 in Radial Ice — 28 Iterations

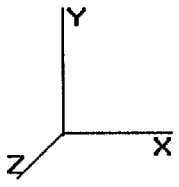
Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

50.00	-50.05	-3.59	0.00	-226.61	0.00	226.61	3,948.63	1,974.32	6,333.36	3,127.81	0.92	-0.18	0.085
51.00	-49.46	-3.57	0.00	-223.02	0.00	223.02	3,932.27	1,966.14	6,280.54	3,101.72	0.96	-0.19	0.084
52.00	-48.86	-3.54	0.00	-219.45	0.00	219.45	3,915.92	1,957.96	6,227.94	3,075.75	1.00	-0.19	0.084
53.00	-48.27	-3.52	0.00	-215.90	0.00	215.90	3,899.56	1,949.78	6,175.57	3,049.88	1.04	-0.20	0.083
54.00	-47.68	-3.50	0.00	-212.38	0.00	212.38	3,883.20	1,941.60	6,123.42	3,024.13	1.08	-0.20	0.083
55.00	-47.10	-3.47	0.00	-208.89	0.00	208.89	3,866.84	1,933.42	6,071.48	2,998.48	1.12	-0.20	0.082
55.00	-47.10	-3.47	0.00	-208.89	0.00	208.89	3,220.97	1,610.49	5,114.03	2,525.63	1.12	-0.20	0.097
56.00	-46.54	-3.45	0.00	-205.42	0.00	205.42	3,207.40	1,603.70	5,070.70	2,504.23	1.17	-0.21	0.097
57.00	-45.98	-3.42	0.00	-201.97	0.00	201.97	3,193.84	1,596.92	5,027.55	2,482.92	1.21	-0.21	0.096
58.00	-45.43	-3.40	0.00	-198.54	0.00	198.54	3,180.27	1,590.13	4,984.58	2,461.70	1.25	-0.21	0.095
59.00	-44.88	-3.37	0.00	-195.15	0.00	195.15	3,166.70	1,583.35	4,941.80	2,440.57	1.30	-0.22	0.094
60.00	-44.32	-3.35	0.00	-191.77	0.00	191.77	3,153.13	1,576.57	4,899.21	2,419.54	1.35	-0.22	0.093
61.00	-43.77	-3.33	0.00	-188.42	0.00	188.42	3,139.57	1,569.78	4,856.80	2,398.59	1.39	-0.23	0.093
62.00	-43.22	-3.30	0.00	-185.10	0.00	185.10	3,126.00	1,563.00	4,814.57	2,377.74	1.44	-0.23	0.092
63.00	-42.68	-3.28	0.00	-181.79	0.00	181.79	3,112.43	1,556.21	4,772.53	2,356.97	1.49	-0.23	0.091
64.00	-42.13	-3.25	0.00	-178.52	0.00	178.52	3,098.86	1,549.43	4,730.67	2,336.30	1.54	-0.24	0.090
65.00	-41.59	-3.22	0.00	-175.27	0.00	175.27	3,085.29	1,542.65	4,689.00	2,315.72	1.59	-0.24	0.089
66.00	-41.04	-3.20	0.00	-172.05	0.00	172.05	3,071.73	1,535.86	4,647.51	2,295.23	1.64	-0.24	0.088
67.00	-40.50	-3.17	0.00	-168.85	0.00	168.85	3,058.16	1,529.08	4,606.20	2,274.83	1.69	-0.25	0.087
68.00	-39.96	-3.15	0.00	-165.67	0.00	165.67	3,044.59	1,522.30	4,565.08	2,254.52	1.74	-0.25	0.087
69.00	-39.43	-3.12	0.00	-162.53	0.00	162.53	3,031.02	1,515.51	4,524.15	2,234.31	1.80	-0.26	0.086
70.00	-38.89	-3.10	0.00	-159.40	0.00	159.40	3,017.46	1,508.73	4,483.40	2,214.18	1.85	-0.26	0.085
71.00	-38.35	-3.07	0.00	-156.31	0.00	156.31	3,003.89	1,501.94	4,442.83	2,194.15	1.91	-0.26	0.084
72.00	-37.82	-3.04	0.00	-153.24	0.00	153.24	2,990.32	1,495.16	4,402.45	2,174.20	1.96	-0.27	0.083
73.00	-37.29	-3.02	0.00	-150.20	0.00	150.20	2,976.75	1,488.38	4,362.25	2,154.35	2.02	-0.27	0.082
74.00	-36.76	-2.99	0.00	-147.18	0.00	147.18	2,963.19	1,481.59	4,322.24	2,134.59	2.07	-0.27	0.081
75.00	-36.21	-2.96	0.00	-144.19	0.00	144.19	2,949.62	1,474.81	4,282.41	2,114.92	2.13	-0.28	0.080
75.00	-36.21	-2.96	0.00	-144.19	0.00	144.19	2,628.21	1,314.11	3,842.67	1,897.75	2.13	-0.28	0.090
76.00	-35.75	-2.93	0.00	-141.23	0.00	141.23	2,616.17	1,308.08	3,807.28	1,880.27	2.19	-0.28	0.089
77.00	-35.28	-2.91	0.00	-138.30	0.00	138.30	2,604.12	1,302.06	3,772.05	1,862.87	2.25	-0.29	0.088
78.00	-34.82	-2.88	0.00	-135.40	0.00	135.40	2,592.07	1,296.04	3,736.99	1,845.56	2.31	-0.29	0.087
79.00	-34.36	-2.85	0.00	-132.52	0.00	132.52	2,580.03	1,290.01	3,702.09	1,828.32	2.37	-0.29	0.086
80.00	-33.82	-2.82	0.00	-129.66	0.00	129.66	2,567.98	1,283.99	3,667.36	1,811.17	2.43	-0.30	0.085
81.00	-33.29	-2.79	0.00	-126.84	0.00	126.84	2,555.93	1,277.97	3,632.78	1,794.10	2.50	-0.30	0.084
82.00	-32.76	-2.76	0.00	-124.06	0.00	124.06	2,543.88	1,271.94	3,598.38	1,777.10	2.56	-0.31	0.083
83.00	-32.22	-2.72	0.00	-121.30	0.00	121.30	2,531.84	1,265.92	3,564.13	1,760.19	2.62	-0.31	0.082
84.00	-31.69	-2.69	0.00	-118.58	0.00	118.58	2,519.79	1,259.89	3,530.05	1,743.36	2.69	-0.31	0.081
84.11	-31.64	-2.69	0.00	-118.28	0.00	118.28	2,518.47	1,259.23	3,526.32	1,741.52	2.70	-0.32	0.080
85.00	-31.12	-2.66	0.00	-115.89	0.00	115.89	2,507.74	1,253.87	3,496.14	1,726.61	2.76	-0.32	0.052
85.00	-31.12	-2.66	0.00	-115.89	0.00	115.89	1,414.25	707.13	1,455.35	718.74	2.76	-0.32	0.054
86.00	-30.73	-2.63	0.00	-113.24	0.00	113.24	1,408.59	704.29	1,440.18	711.25	2.82	-0.32	0.066
87.00	-30.34	-2.61	0.00	-110.60	0.00	110.60	1,402.88	701.44	1,425.06	703.78	2.89	-0.33	0.065
88.00	-29.95	-2.59	0.00	-107.99	0.00	107.99	1,397.13	698.56	1,409.96	696.33	2.96	-0.33	0.063
89.00	-29.56	-2.57	0.00	-105.40	0.00	105.40	1,391.33	695.67	1,394.89	688.89	3.03	-0.34	0.062
90.00	-29.17	-2.54	0.00	-102.83	0.00	102.83	1,385.49	692.75	1,379.86	681.46	3.10	-0.35	0.061
91.00	-28.78	-2.52	0.00	-100.29	0.00	100.29	1,379.61	689.81	1,364.87	674.06	3.18	-0.35	0.060
92.00	-28.39	-2.50	0.00	-97.77	0.00	97.77	1,373.69	686.84	1,349.91	666.67	3.25	-0.36	0.058
93.00	-28.00	-2.48	0.00	-95.27	0.00	95.27	1,367.72	683.86	1,334.99	659.30	3.33	-0.37	0.057
94.00	-27.62	-2.45	0.00	-92.79	0.00	92.79	1,361.71	680.85	1,320.10	651.95	3.41	-0.37	0.056
95.00	-27.23	-2.43	0.00	-90.34	0.00	90.34	1,355.66	677.83	1,305.26	644.62	3.49	-0.38	0.055
95.50	-27.04	-2.42	0.00	-89.13	0.00	89.13	1,352.61	676.31	1,297.85	640.96	3.53	-0.38	0.054
95.50	-27.04	-2.42	0.00	-89.13	0.00	89.13	1,352.61	676.31	1,297.85	640.96	3.53	-0.38	0.159
96.00	-26.87	-2.41	0.00	-87.92	0.00	87.92	1,349.56	674.78	1,290.45	637.30	3.57	-0.39	0.158
97.00	-26.54	-2.39	0.00	-85.51	0.00	85.51	1,343.42	671.71	1,275.68	630.01	3.65	-0.40	0.155
98.00	-26.20	-2.38	0.00	-83.12	0.00	83.12	1,337.24	668.62	1,260.95	622.74	3.74	-0.42	0.153
99.00	-25.87	-2.36	0.00	-80.74	0.00	80.74	1,331.01	665.51	1,246.27	615.49	3.83	-0.44	0.151
100.00	-25.54	-2.34	0.00	-78.38	0.00	78.38	1,324.75	662.37	1,231.63	608.25	3.92	-0.46	0.148

Pole :	302523	Code: ANSI/TIA-222 Rev G	9/21/2012 10:16:30 AM
Location :	New Milford CT 2, CT	Struct Class : II	Page: 50
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		



Load Case: 1.2D + 1.0Di + 1.0Wi — 40.00 mph with 0.75 in Radial Ice — 28 Iterations

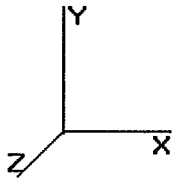
Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

101.00	-25.28	-2.33	0.00	-76.04	0.00	76.04	1,318.44	659.22	1,217.03	601.04	4.02	-0.48	0.146
102.00	-25.02	-2.32	0.00	-73.71	0.00	73.71	1,312.08	656.04	1,202.47	593.86	4.12	-0.50	0.143
103.00	-24.77	-2.30	0.00	-71.40	0.00	71.40	1,305.69	652.84	1,187.96	586.69	4.23	-0.52	0.141
104.00	-24.51	-2.29	0.00	-69.09	0.00	69.09	1,299.25	649.62	1,173.50	579.55	4.34	-0.53	0.138
105.00	-24.26	-2.28	0.00	-66.80	0.00	66.80	1,293.29	646.65	1,159.56	572.66	4.45	-0.55	0.135
106.00	-24.01	-2.27	0.00	-64.52	0.00	64.52	1,283.85	641.92	1,142.58	564.28	4.57	-0.57	0.133
107.00	-23.75	-2.25	0.00	-62.25	0.00	62.25	1,274.40	637.20	1,125.74	555.96	4.69	-0.59	0.131
108.00	-23.50	-2.24	0.00	-60.00	0.00	60.00	1,264.95	632.48	1,109.01	547.70	4.82	-0.60	0.128
109.00	-23.25	-2.23	0.00	-57.76	0.00	57.76	1,255.51	627.75	1,092.42	539.50	4.94	-0.62	0.126
110.00	-19.49	-1.88	0.00	-55.53	0.00	55.53	1,246.06	623.03	1,075.94	531.37	5.08	-0.64	0.120
110.00	-19.49	-1.88	0.00	-55.53	0.00	55.53	852.83	426.42	740.79	365.85	5.08	-0.64	0.175
111.00	-19.31	-1.87	0.00	-53.65	0.00	53.65	849.27	424.64	732.18	361.60	5.21	-0.65	0.171
112.00	-19.13	-1.87	0.00	-51.78	0.00	51.78	845.67	422.84	723.58	357.35	5.35	-0.67	0.168
113.00	-18.95	-1.86	0.00	-49.91	0.00	49.91	842.03	421.01	714.99	353.11	5.49	-0.70	0.164
114.00	-18.77	-1.85	0.00	-48.05	0.00	48.05	838.34	419.17	706.41	348.87	5.64	-0.72	0.160
115.00	-18.59	-1.85	0.00	-46.20	0.00	46.20	834.62	417.31	697.84	344.64	5.79	-0.74	0.156
116.00	-18.41	-1.84	0.00	-44.35	0.00	44.35	830.85	415.43	689.29	340.42	5.95	-0.76	0.152
117.00	-18.23	-1.83	0.00	-42.51	0.00	42.51	827.04	413.52	680.76	336.20	6.11	-0.78	0.149
118.00	-18.06	-1.83	0.00	-40.68	0.00	40.68	823.19	411.60	672.24	331.99	6.28	-0.80	0.144
119.00	-17.88	-1.82	0.00	-38.85	0.00	38.85	819.30	409.65	663.73	327.79	6.45	-0.81	0.140
120.00	-17.70	-1.81	0.00	-37.03	0.00	37.03	815.37	407.68	655.25	323.60	6.62	-0.83	0.136
121.00	-17.53	-1.80	0.00	-35.22	0.00	35.22	811.40	405.70	646.78	319.42	6.80	-0.85	0.132
122.00	-17.35	-1.80	0.00	-33.42	0.00	33.42	807.38	403.69	638.33	315.25	6.98	-0.87	0.128
123.00	-17.18	-1.79	0.00	-31.62	0.00	31.62	803.32	401.66	629.90	311.09	7.16	-0.89	0.123
124.00	-17.01	-1.78	0.00	-29.83	0.00	29.83	799.23	399.61	621.49	306.93	7.35	-0.90	0.118
125.00	-16.83	-1.76	0.00	-28.06	0.00	28.06	795.09	397.54	613.11	302.79	7.54	-0.92	0.114
126.00	-16.66	-1.75	0.00	-26.29	0.00	26.29	790.91	395.45	604.74	298.66	7.73	-0.93	0.109
127.00	-16.49	-1.74	0.00	-24.54	0.00	24.54	786.69	393.34	596.40	294.54	7.93	-0.95	0.104
128.00	-16.32	-1.73	0.00	-22.80	0.00	22.80	782.42	391.21	588.08	290.43	8.13	-0.96	0.099
129.00	-16.15	-1.71	0.00	-21.07	0.00	21.07	778.12	389.06	579.79	286.34	8.33	-0.98	0.094
130.00	-11.31	-1.18	0.00	-18.97	0.00	18.97	773.77	386.89	571.52	282.25	8.54	-0.99	0.082
131.00	-11.19	-1.17	0.00	-17.79	0.00	17.79	769.39	384.69	563.28	278.18	8.75	-1.00	0.079
132.00	-11.07	-1.16	0.00	-16.62	0.00	16.62	764.96	382.48	555.06	274.13	8.96	-1.01	0.075
133.00	-10.96	-1.15	0.00	-15.46	0.00	15.46	760.49	380.24	546.88	270.08	9.17	-1.02	0.072
134.00	-10.84	-1.14	0.00	-14.31	0.00	14.31	755.98	377.99	538.72	266.05	9.38	-1.03	0.068
135.00	-10.73	-1.13	0.00	-13.17	0.00	13.17	751.42	375.71	530.59	262.04	9.60	-1.04	0.065
136.00	-10.62	-1.12	0.00	-12.04	0.00	12.04	746.83	373.41	522.49	258.04	9.82	-1.05	0.061
137.00	-10.50	-1.11	0.00	-10.92	0.00	10.92	742.19	371.10	514.42	254.05	10.04	-1.06	0.057
138.00	-10.39	-1.10	0.00	-9.81	0.00	9.81	737.52	368.76	506.39	250.09	10.27	-1.07	0.053
139.00	-10.28	-1.09	0.00	-8.71	0.00	8.71	732.80	366.40	498.39	246.13	10.49	-1.08	0.049
140.00	-6.19	-0.65	0.00	-7.19	0.00	7.19	728.04	364.02	490.42	242.20	10.72	-1.08	0.038
141.00	-6.09	-0.64	0.00	-6.54	0.00	6.54	721.77	360.89	481.50	237.80	10.94	-1.09	0.036
142.00	-5.99	-0.62	0.00	-5.91	0.00	5.91	714.82	357.41	472.22	233.21	11.17	-1.09	0.034
143.00	-5.89	-0.61	0.00	-5.28	0.00	5.28	707.87	353.93	463.02	228.67	11.40	-1.10	0.031
144.00	-5.79	-0.60	0.00	-4.67	0.00	4.67	700.91	350.46	453.92	224.17	11.63	-1.10	0.029
145.00	-5.69	-0.59	0.00	-4.07	0.00	4.07	693.96	346.98	444.90	219.72	11.86	-1.11	0.027
146.00	-5.59	-0.58	0.00	-3.48	0.00	3.48	687.01	343.50	435.98	215.31	12.09	-1.11	0.024
147.00	-5.50	-0.57	0.00	-2.90	0.00	2.90	680.05	340.03	427.15	210.95	12.33	-1.11	0.022
148.00	-5.40	-0.56	0.00	-2.33	0.00	2.33	673.10	336.55	418.40	206.63	12.56	-1.12	0.019
149.00	-5.31	-0.55	0.00	-1.77	0.00	1.77	666.15	333.07	409.75	202.36	12.80	-1.12	0.017
150.00	0.00	-0.44	0.00	-1.22	0.00	1.22	659.19	329.60	401.19	198.13	13.03	-1.12	0.006

Pole :	302523	Code: ANSI/TIA-222 Rev G	9/21/2012 10:16:30 AM
Location :	New Milford CT 2, CT	Struct Class : II	Page: 51
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		



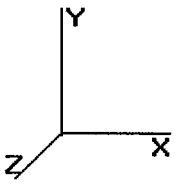
Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 28 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00
Wind Importance 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)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	6.129	6.742	233.43		1.000	0.000	0.00	0.000	0.00	0.0	0.0	0.0
1.00		1.00	0.70	6.129	6.742	230.97		1.000	0.000	1.00	4.626	4.63	31.2	0.0	434.4
2.00		1.00	0.70	6.129	6.742	228.52		1.000	0.000	1.00	4.577	4.58	30.9	0.0	429.8
3.00		1.00	0.70	6.129	6.742	226.06		1.000	0.000	1.00	4.528	4.53	30.5	0.0	425.1
4.00		1.00	0.70	6.129	6.742	223.61		1.000	0.000	1.00	4.479	4.48	30.2	0.0	420.5
5.00		1.00	0.70	6.129	6.742	221.15		1.000	0.000	1.00	4.430	4.43	29.9	0.0	415.8
6.00		1.00	0.70	6.129	6.742	218.69		1.200 *	0.000	1.00	4.381	5.26	35.4	0.0	411.1
7.00		1.00	0.70	6.129	6.742	216.24		1.200 *	0.000	1.00	4.332	5.20	35.0	0.0	406.5
8.00		1.00	0.70	6.129	6.742	213.78		1.200 *	0.000	1.00	4.283	5.14	34.7	0.0	401.8
9.00		1.00	0.70	6.129	6.742	211.33		1.200 *	0.000	1.00	4.234	5.08	34.3	0.0	397.2
10.00		1.00	0.70	6.129	6.742	208.87		1.200 *	0.000	1.00	4.185	5.02	33.9	0.0	392.5
11.00		1.00	0.70	6.129	6.742	206.42		1.200 *	0.000	1.00	4.136	4.96	33.5	0.0	387.8
12.00		1.00	0.70	6.129	6.742	203.96		1.200 *	0.000	1.00	4.088	4.91	33.1	0.0	383.2
13.00		1.00	0.70	6.129	6.742	201.51		1.200 *	0.000	1.00	4.039	4.85	32.7	0.0	378.5
14.00		1.00	0.70	6.129	6.742	199.05		1.200 *	0.000	1.00	3.990	4.79	32.3	0.0	373.9
15.00	Top - Section 1	1.00	0.70	6.129	6.742	196.59		1.200 *	0.000	1.00	3.941	4.73	31.9	0.0	369.2
16.00		1.00	0.70	6.129	6.742	196.78		1.200 *	0.000	1.00	3.927	4.71	31.8	0.0	337.7
17.00		1.00	0.70	6.129	6.742	196.07		1.200 *	0.000	1.00	3.913	4.70	31.7	0.0	336.5
18.00		1.00	0.70	6.129	6.742	195.37		1.200 *	0.000	1.00	3.899	4.68	31.5	0.0	335.3
19.00		1.00	0.70	6.129	6.742	194.67		1.200 *	0.000	1.00	3.885	4.66	31.4	0.0	334.0
20.00		1.00	0.70	6.129	6.742	193.96		1.200 *	0.000	1.00	3.871	4.65	31.3	0.0	332.8
21.00		1.00	0.70	6.129	6.742	193.26		1.200 *	0.000	1.00	3.857	4.63	31.2	0.0	331.6
22.00		1.00	0.70	6.129	6.742	192.56		1.200 *	0.000	1.00	3.843	4.61	31.1	0.0	330.4
23.00		1.00	0.70	6.129	6.742	191.85		1.200 *	0.000	1.00	3.829	4.59	31.0	0.0	329.1
24.00		1.00	0.70	6.129	6.742	191.15		1.200 *	0.000	1.00	3.815	4.58	30.9	0.0	327.9
25.00		1.00	0.70	6.129	6.742	190.44		1.200 *	0.000	1.00	3.801	4.56	30.7	0.0	326.7
26.00		1.00	0.70	6.129	6.742	189.74		1.200 *	0.000	1.00	3.787	4.54	30.6	0.0	325.5
27.00		1.00	0.70	6.129	6.742	189.04		1.200 *	0.000	1.00	3.773	4.53	30.5	0.0	324.2
28.00		1.00	0.70	6.129	6.742	188.33		1.200 *	0.000	1.00	3.759	4.51	30.4	0.0	323.0
29.00		1.00	0.70	6.129	6.742	187.63		1.200 *	0.000	1.00	3.745	4.49	30.3	0.0	321.8
30.00		1.00	0.70	6.134	6.747	187.00		1.200 *	0.000	1.00	3.731	4.48	30.2	0.0	320.6
31.00		1.00	0.70	6.192	6.811	187.18		1.200 *	0.000	1.00	3.717	4.46	30.4	0.0	319.3
32.00		1.00	0.71	6.248	6.873	187.32		1.200 *	0.000	1.00	3.703	4.44	30.5	0.0	318.1
33.00		1.00	0.72	6.303	6.933	187.43		1.200 *	0.000	1.00	3.689	4.43	30.7	0.0	316.9
34.00		1.00	0.72	6.357	6.993	187.51		1.200 *	0.000	1.00	3.675	4.41	30.8	0.0	315.7
35.00		1.00	0.73	6.410	7.051	187.57		1.200 *	0.000	1.00	3.661	4.39	31.0	0.0	314.4
36.00		1.00	0.73	6.462	7.108	187.60		1.200 *	0.000	1.00	3.647	4.38	31.1	0.0	313.2
37.00		1.00	0.74	6.513	7.164	187.61		1.200 *	0.000	1.00	3.633	4.36	31.2	0.0	312.0
38.00		1.00	0.75	6.562	7.219	187.60		1.200 *	0.000	1.00	3.619	4.34	31.3	0.0	310.8
39.00		1.00	0.75	6.611	7.272	187.57		1.200 *	0.000	1.00	3.605	4.33	31.5	0.0	309.6
40.00		1.00	0.76	6.659	7.325	187.51		1.200 *	0.000	1.00	3.591	4.31	31.6	0.0	308.3
41.00		1.00	0.76	6.706	7.377	187.44		1.200 *	0.000	1.00	3.577	4.29	31.7	0.0	307.1
42.00		1.00	0.77	6.753	7.428	187.35		1.200 *	0.000	1.00	3.563	4.28	31.8	0.0	305.9
43.00		1.00	0.77	6.798	7.478	187.24		1.200 *	0.000	1.00	3.548	4.26	31.8	0.0	304.7
44.00		1.00	0.78	6.843	7.527	187.11		1.200 *	0.000	1.00	3.534	4.24	31.9	0.0	303.4
45.00		1.00	0.78	6.887	7.576	186.97		1.200 *	0.000	1.00	3.520	4.22	32.0	0.0	302.2
46.00		1.00	0.79	6.931	7.624	186.81		1.200 *	0.000	1.00	3.506	4.21	32.1	0.0	301.0
47.00		1.00	0.79	6.973	7.671	186.63		1.200 *	0.000	1.00	3.492	4.19	32.1	0.0	299.8
48.00		1.00	0.80	7.015	7.717	186.44		1.200 *	0.000	1.00	3.478	4.17	32.2	0.0	298.5
49.00		1.00	0.80	7.057	7.763	186.23		1.200 *	0.000	1.00	3.464	4.16	32.3	0.0	297.3
50.00		1.00	0.81	7.098	7.807	186.01		1.200 *	0.000	1.00	3.450	4.14	32.3	0.0	296.1

Pole : 302523	Code: ANSI/TIA-222 Rev G		9/21/2012 10:16:30 AM
Location : New Milford CT 2, CT	Struct Class : II		Page: 52
Height : 150.0 (ft)	Exposure Category : B		
Base Dia : 53.90 (in)	Topographic Category : 1		
Top Dia : 15.00 (in)	Base Elev : 0.000 (ft)		
Shape : 12 Sides			
Taper : 0.156700 (in/ft)			

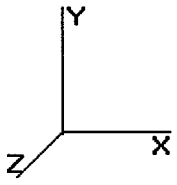


Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 28 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00
Wind Importance Factor : 1.00

51.00		1.00	0.81	7.138	7.852	185.78	1.200	*	0.000	1.00	3.436	4.12	32.4	0.0	294.9
52.00		1.00	0.82	7.178	7.895	185.54	1.200	*	0.000	1.00	3.422	4.11	32.4	0.0	293.6
53.00		1.00	0.82	7.217	7.939	185.28	1.200	*	0.000	1.00	3.408	4.09	32.5	0.0	292.4
54.00		1.00	0.82	7.255	7.981	185.01	1.200	*	0.000	1.00	3.394	4.07	32.5	0.0	291.2
55.00	Top - Section 2	1.00	0.83	7.294	8.023	184.73	1.200	*	0.000	1.00	3.380	4.06	32.5	0.0	290.0
56.00		1.00	0.83	7.331	8.064	185.85	1.200	*	0.000	1.00	3.392	4.07	32.8	0.0	265.0
57.00		1.00	0.84	7.368	8.105	185.54	1.200	*	0.000	1.00	3.378	4.05	32.9	0.0	263.9
58.00		1.00	0.84	7.405	8.146	185.23	1.200	*	0.000	1.00	3.364	4.04	32.9	0.0	262.7
59.00		1.00	0.85	7.441	8.186	184.90	1.200	*	0.000	1.00	3.350	4.02	32.9	0.0	261.6
60.00		1.00	0.85	7.477	8.225	184.56	1.200	*	0.000	1.00	3.336	4.00	32.9	0.0	260.5
61.00		1.00	0.85	7.513	8.264	184.22	1.200	*	0.000	1.00	3.322	3.99	32.9	0.0	259.4
62.00		1.00	0.86	7.548	8.302	183.86	1.200	*	0.000	1.00	3.308	3.97	33.0	0.0	258.3
63.00		1.00	0.86	7.582	8.340	183.50	1.200	*	0.000	1.00	3.293	3.95	33.0	0.0	257.1
64.00		1.00	0.87	7.616	8.378	183.12	1.200	*	0.000	1.00	3.279	3.94	33.0	0.0	256.0
65.00		1.00	0.87	7.650	8.415	182.74	1.200	*	0.000	1.00	3.265	3.92	33.0	0.0	254.9
66.00		1.00	0.87	7.684	8.452	182.34	1.200	*	0.000	1.00	3.251	3.90	33.0	0.0	253.8
67.00		1.00	0.88	7.717	8.488	181.94	1.200	*	0.000	1.00	3.237	3.88	33.0	0.0	252.7
68.00		1.00	0.88	7.749	8.524	181.53	1.200	*	0.000	1.00	3.223	3.87	33.0	0.0	251.6
69.00		1.00	0.88	7.782	8.560	181.11	1.200	*	0.000	1.00	3.209	3.85	33.0	0.0	250.4
70.00		1.00	0.89	7.814	8.595	180.69	1.200	*	0.000	1.00	3.195	3.83	33.0	0.0	249.3
71.00		1.00	0.89	7.846	8.630	180.25	1.200	*	0.000	1.00	3.181	3.82	32.9	0.0	248.2
72.00		1.00	0.90	7.877	8.665	179.81	1.200	*	0.000	1.00	3.167	3.80	32.9	0.0	247.1
73.00		1.00	0.90	7.908	8.699	179.36	1.200	*	0.000	1.00	3.153	3.78	32.9	0.0	246.0
74.00		1.00	0.90	7.939	8.733	178.91	1.200	*	0.000	1.00	3.138	3.77	32.9	0.0	244.8
75.00	Top - Section 3	1.00	0.91	7.969	8.766	178.44	1.200	*	0.000	1.00	3.124	3.75	32.9	0.0	243.7
76.00		1.00	0.91	8.000	8.800	177.97	1.200	*	0.000	1.00	3.110	3.73	32.8	0.0	194.8
77.00		1.00	0.91	8.030	8.833	177.50	1.200	*	0.000	1.00	3.096	3.72	32.8	0.0	193.9
78.00		1.00	0.92	8.059	8.865	177.01	1.200	*	0.000	1.00	3.082	3.70	32.8	0.0	193.0
79.00		1.00	0.92	8.089	8.897	176.52	1.200	*	0.000	1.00	3.068	3.68	32.8	0.0	192.1
80.00		1.00	0.92	8.118	8.930	176.03	1.200	*	0.000	1.00	3.054	3.66	32.7	0.0	191.2
81.00		1.00	0.93	8.147	8.961	175.52	1.200	*	0.000	1.00	3.040	3.65	32.7	0.0	190.3
82.00		1.00	0.93	8.175	8.993	175.01	1.200	*	0.000	1.00	3.026	3.63	32.7	0.0	189.4
83.00		1.00	0.93	8.204	9.024	174.50	1.200	*	0.000	1.00	3.012	3.61	32.6	0.0	188.5
84.00		1.00	0.94	8.232	9.055	173.98	1.200	*	0.000	1.00	2.998	3.60	32.6	0.0	187.6
84.11	Reinf Bottom	1.00	0.94	8.235	9.058	173.92	1.200	*	0.000	0.11	0.329	0.39	3.6	0.0	20.6
85.00	Top - Section 4	1.00	0.94	8.260	9.086	173.45	1.200	*	0.000	0.89	2.655	3.19	28.9	0.0	210.7
86.00		1.00	0.94	8.287	9.116	126.26	1.200	*	0.000	1.00	2.170	2.60	23.7	0.0	118.3
87.00		1.00	0.95	8.315	9.146	125.66	1.200	*	0.000	1.00	2.156	2.59	23.7	0.0	117.9
88.00		1.00	0.95	8.342	9.176	125.06	1.200	*	0.000	1.00	2.142	2.57	23.6	0.0	117.4
89.00		1.00	0.95	8.369	9.206	124.46	1.200	*	0.000	1.00	2.129	2.55	23.5	0.0	117.0
90.00		1.00	0.95	8.396	9.235	123.85	1.200	*	0.000	1.00	2.115	2.54	23.4	0.0	116.6
91.00		1.00	0.96	8.422	9.264	123.24	1.200	*	0.000	1.00	2.101	2.52	23.4	0.0	116.1
92.00		1.00	0.96	8.448	9.293	122.62	1.200	*	0.000	1.00	2.087	2.50	23.3	0.0	115.7
93.00		1.00	0.96	8.475	9.322	122.00	1.200	*	0.000	1.00	2.074	2.49	23.2	0.0	115.3
94.00		1.00	0.97	8.501	9.351	121.37	1.200	*	0.000	1.00	2.060	2.47	23.1	0.0	114.8
95.00		1.00	0.97	8.526	9.379	120.74	1.200	*	0.000	1.00	2.046	2.46	23.0	0.0	114.4
95.50	Reinf. Top	1.00	0.97	8.539	9.393	120.43	1.200	*	0.000	0.50	1.018	1.22	11.5	0.0	57.0
96.00		1.00	0.97	8.552	9.407	120.11	1.200	*	0.000	0.50	1.015	1.22	11.5	0.0	31.9
97.00		1.00	0.98	8.577	9.435	119.47	1.200	*	0.000	1.00	2.019	2.42	22.9	0.0	63.4
98.00		1.00	0.98	8.602	9.463	118.83	1.200	*	0.000	1.00	2.005	2.41	22.8	0.0	63.0
99.00		1.00	0.98	8.627	9.490	118.19	1.200	*	0.000	1.00	1.991	2.39	22.7	0.0	62.5
100.0		1.00	0.98	8.652	9.517	117.54	1.200	*	0.000	1.00	1.978	2.37	22.6	0.0	62.1
101.0		1.00	0.99	8.677	9.544	116.88	1.200	*	0.000	1.00	1.964	2.36	22.5	0.0	61.7
102.0		1.00	0.99	8.701	9.571	116.23	1.200	*	0.000	1.00	1.950	2.34	22.4	0.0	61.2
103.0		1.00	0.99	8.726	9.598	115.57	1.200	*	0.000	1.00	1.936	2.32	22.3	0.0	60.8
104.0		1.00	0.99	8.750	9.625	114.90	1.200	*	0.000	1.00	1.923	2.31	22.2	0.0	60.4
105.0		1.00	1.00	8.774	9.651	114.23	1.200	*	0.000	1.00	1.909	2.29	22.1	0.0	59.9

Pole :	302523	Code: ANSI/TIA-222 Rev G	9/21/2012 10:16:31 AM
Location :	New Milford CT 2, CT	Struct Class : II	Page: 53
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		



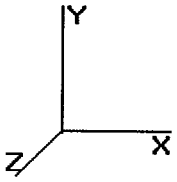
Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 28 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00
Wind Importance Factor : 1.00

106.0		1.00	1.00	8.797	9.677	113.56	1.200	*	0.000	1.00	1.895	2.27	22.0	0.0	59.5
107.0		1.00	1.00	8.821	9.703	112.89	1.200	*	0.000	1.00	1.881	2.26	21.9	0.0	59.0
108.0		1.00	1.01	8.845	9.729	112.21	1.200	*	0.000	1.00	1.868	2.24	21.8	0.0	58.6
109.0		1.00	1.01	8.868	9.755	111.53	1.200	*	0.000	1.00	1.854	2.22	21.7	0.0	58.2
110.0	Top - Section 5	1.00	1.01	8.891	9.780	110.84	1.200	*	0.000	1.00	1.840	2.21	21.6	0.0	57.7
111.0		1.00	1.01	8.914	9.805	110.17	1.000	*	0.000	1.00	1.827	1.83	17.9	0.0	43.1
112.0		1.00	1.02	8.937	9.831	109.49	1.000	*	0.000	1.00	1.813	1.81	17.8	0.0	42.8
113.0		1.00	1.02	8.960	9.856	108.82	1.000	*	0.000	1.00	1.800	1.80	17.7	0.0	42.5
114.0		1.00	1.02	8.982	9.880	108.13	1.000	*	0.000	1.00	1.786	1.79	17.6	0.0	42.1
115.0		1.00	1.02	9.005	9.905	107.45	1.000	*	0.000	1.00	1.773	1.77	17.6	0.0	41.8
116.0		1.00	1.03	9.027	9.930	106.76	1.000	*	0.000	1.00	1.759	1.76	17.5	0.0	41.5
117.0		1.00	1.03	9.049	9.954	106.07	1.000	*	0.000	1.00	1.746	1.75	17.4	0.0	41.2
118.0		1.00	1.03	9.071	9.978	105.37	1.000	*	0.000	1.00	1.732	1.73	17.3	0.0	40.9
119.0		1.00	1.03	9.093	10.00	104.68	1.000	*	0.000	1.00	1.719	1.72	17.2	0.0	40.5
120.0		1.00	1.04	9.115	10.02	103.98	1.000	*	0.000	1.00	1.705	1.71	17.1	0.0	40.2
121.0		1.00	1.04	9.136	10.05	103.27	1.000	*	0.000	1.00	1.692	1.69	17.0	0.0	39.9
122.0		1.00	1.04	9.158	10.07	102.57	1.000	*	0.000	1.00	1.678	1.68	16.9	0.0	39.6
123.0		1.00	1.04	9.179	10.09	101.86	1.000	*	0.000	1.00	1.665	1.66	16.8	0.0	39.3
124.0		1.00	1.05	9.201	10.12	101.15	1.200	*	0.000	1.00	1.651	1.98	20.1	0.0	38.9
125.0		1.00	1.05	9.222	10.14	100.44	1.200	*	0.000	1.00	1.638	1.97	19.9	0.0	38.6
126.0		1.00	1.05	9.243	10.16	99.723	1.200	*	0.000	1.00	1.624	1.95	19.8	0.0	38.3
127.0		1.00	1.05	9.264	10.19	99.004	1.200	*	0.000	1.00	1.611	1.93	19.7	0.0	38.0
128.0		1.00	1.06	9.284	10.21	98.282	1.200	*	0.000	1.00	1.597	1.92	19.6	0.0	37.7
129.0		1.00	1.06	9.305	10.23	97.557	1.200	*	0.000	1.00	1.584	1.90	19.5	0.0	37.3
130.0	Appertunance(s)	1.00	1.06	9.326	10.25	96.830	1.200	*	0.000	1.00	1.570	1.88	19.3	0.0	37.0
131.0		1.00	1.06	9.346	10.28	96.101	1.000		0.000	1.00	1.557	1.56	16.0	0.0	36.7
132.0		1.00	1.07	9.366	10.30	95.369	1.000		0.000	1.00	1.543	1.54	15.9	0.0	36.4
133.0		1.00	1.07	9.387	10.32	94.634	1.000		0.000	1.00	1.530	1.53	15.8	0.0	36.0
134.0		1.00	1.07	9.407	10.34	93.897	1.000		0.000	1.00	1.517	1.52	15.7	0.0	35.7
135.0		1.00	1.07	9.427	10.36	93.157	1.000		0.000	1.00	1.503	1.50	15.6	0.0	35.4
136.0		1.00	1.07	9.447	10.39	92.416	1.000		0.000	1.00	1.490	1.49	15.5	0.0	35.1
137.0		1.00	1.08	9.466	10.41	91.671	1.000		0.000	1.00	1.476	1.48	15.4	0.0	34.8
138.0		1.00	1.08	9.486	10.43	90.925	1.000		0.000	1.00	1.463	1.46	15.3	0.0	34.4
139.0		1.00	1.08	9.506	10.45	90.176	1.000		0.000	1.00	1.449	1.45	15.2	0.0	34.1
140.0	Appertunance(s)	1.00	1.08	9.525	10.47	89.425	1.000		0.000	1.00	1.436	1.44	15.0	0.0	33.8
141.0		1.00	1.09	9.545	10.49	88.671	1.000		0.000	1.00	1.422	1.42	14.9	0.0	33.5
142.0		1.00	1.09	9.564	10.52	87.915	1.000		0.000	1.00	1.409	1.41	14.8	0.0	33.2
143.0		1.00	1.09	9.583	10.54	87.157	1.000		0.000	1.00	1.395	1.40	14.7	0.0	32.8
144.0		1.00	1.09	9.602	10.56	86.397	1.000		0.000	1.00	1.382	1.38	14.6	0.0	32.5
145.0		1.00	1.09	9.621	10.58	85.635	1.000		0.000	1.00	1.368	1.37	14.5	0.0	32.2
146.0		1.00	1.10	9.640	10.60	84.870	1.000		0.000	1.00	1.355	1.35	14.4	0.0	31.9
147.0		1.00	1.10	9.659	10.62	84.103	1.000		0.000	1.00	1.341	1.34	14.3	0.0	31.6
148.0		1.00	1.10	9.678	10.64	83.334	1.000		0.000	1.00	1.328	1.33	14.1	0.0	31.2
149.0		1.00	1.10	9.696	10.66	82.564	1.000		0.000	1.00	1.314	1.31	14.0	0.0	30.9
150.0	Appertunance(s)	1.00	1.11	9.715	10.68	81.790	1.000		0.000	1.00	1.301	1.30	13.9	0.0	30.6
* = Cf Adjusted By Linear Load Ra Effect						Totals:			150.00				3,963.5	0.0	29,194.3

Pole : 302523
Location : New Milford CT 2, CT
Height : 150.0 (ft)
Base Dia : 53.90 (in)
Top Dia : 15.00 (in)
Shape : 12 Sides
Taper : 0.156700 (in/ft)

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



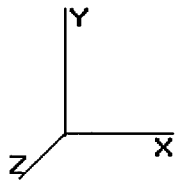
Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 28 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00

Wind Importance Factor : 1.00

Discrete Appurtenance Segment Forces (Factored)

Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa Factor	Ka	Total CaAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom' Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
75.00	PCTEL GPS-TMG-HR-	1	7.969	8.766	1.00	1.00	1.00	0.000	0.000	8.77	0.00	0.00	10.00
110.0	48" x 12" Panels	9	8.891	9.780	0.54	0.80	27.01	0.000	0.000	264.20	0.00	0.00	270.00
110.0	72" x 12" Panels	3	8.891	9.780	0.54	0.80	13.51	0.000	0.000	132.10	0.00	0.00	135.00
110.0	Round T-Arms	3	8.891	9.780	0.45	0.75	13.09	0.000	0.000	128.07	0.00	0.00	750.00
130.0	Antel BXA-171063-8BF	1	9.366	10.303	0.57	0.80	1.67	0.000	2.000	17.21	0.00	34.41	10.50
130.0	Antel BXA-171085-8BF	2	9.366	10.303	0.57	0.80	3.34	0.000	2.000	34.41	0.00	68.82	22.00
130.0	Antel BXA-70063/6CF	3	9.366	10.303	0.53	0.80	12.01	0.000	2.000	123.71	0.00	247.41	44.70
130.0	Antel LPA-80063/6CF	2	9.326	10.258	0.61	0.80	11.66	0.000	0.000	119.63	0.00	0.00	54.00
130.0	Antel LPA-80080/6CF	4	9.366	10.303	0.52	0.80	17.95	0.000	2.000	184.94	0.00	369.89	84.00
130.0	RFS FD9R6004/1C-3L	6	9.366	10.303	0.40	0.80	0.89	0.000	2.000	9.15	0.00	18.30	18.60
130.0	Round Low Profile Pl	1	9.326	10.258	1.00	1.00	21.70	0.000	0.000	222.60	0.00	0.00	1,500.00
140.0	Alcatel-Lucent 1900	3	9.525	10.478	0.54	0.80	4.36	0.000	0.000	45.66	0.00	0.00	180.00
140.0	Alcatel-Lucent 800 M	3	9.525	10.478	0.54	0.80	3.86	0.000	0.000	40.44	0.00	0.00	192.00
140.0	Decibel DB980H90E-M	6	9.564	10.520	0.54	0.80	12.54	0.000	2.000	131.95	0.00	263.90	51.00
140.0	RFS APXVSPP18-C-	3	9.525	10.478	0.66	0.80	15.98	0.000	0.000	167.39	0.00	0.00	171.00
140.0	Round Low Profile Pl	1	9.564	10.520	0.90	1.00	16.20	0.000	2.000	170.43	0.00	340.86	1,200.00
150.0	Andrew ABT-DMDM-	6	9.788	10.767	0.40	0.80	0.12	0.000	4.000	1.29	0.00	5.17	6.60
150.0	Ericsson RRUS 11	6	9.788	10.767	0.54	0.80	8.20	0.000	4.000	88.30	0.00	353.19	300.00
150.0	KMW AM-X-CD-16-65-	3	9.788	10.767	0.63	0.80	15.21	0.000	4.000	163.72	0.00	654.89	145.50
150.0	Powerwave 7770.00A	6	9.788	10.767	0.61	0.80	20.28	0.000	4.000	218.39	0.00	873.54	210.00
150.0	Powerwave TT19-	6	9.788	10.767	0.40	0.80	1.54	0.000	4.000	16.54	0.00	66.15	96.00
150.0	Round Low Profile Pl	1	9.733	10.707	0.90	1.00	19.53	0.000	1.000	209.10	0.00	209.10	1,500.00
										2,497.99			6,950.90

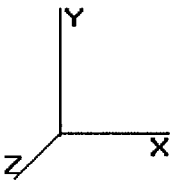


Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 28 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00
Wind Importance Factor : 1.00

Linear Appurtenance Segment Forces (Factored)

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	qz (psf)	Ra	Cf Adjust Factor	F X (lb)	Dead Load (lb)
6.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.129	0.244	0.000	14.43	61.26
6.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.244	0.000	0.00	0.15
7.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.129	0.247	0.000	14.43	61.26
7.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.247	0.000	0.00	0.15
8.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.129	0.250	0.000	14.43	61.26
8.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.250	0.000	0.00	0.15
9.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.129	0.253	0.000	14.43	61.26
9.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.253	0.000	0.00	0.15
10.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.129	0.256	0.000	14.43	61.26
10.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.256	0.000	0.00	0.15
11.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.129	0.259	0.000	14.43	61.26
11.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.259	0.000	0.00	0.15
12.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.129	0.262	0.000	14.43	61.26
12.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.262	0.000	0.00	0.15
13.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.129	0.265	0.000	14.43	61.26
13.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.265	0.000	0.00	0.15
14.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.129	0.268	0.000	14.43	61.26
14.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.268	0.000	0.00	0.15
15.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.129	0.272	0.000	14.43	61.26
15.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.272	0.000	0.00	0.15
16.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.129	0.272	0.000	14.43	61.26
16.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.272	0.000	0.00	0.15
17.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.129	0.273	0.000	14.43	61.26
17.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.273	0.000	0.00	0.15
18.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.129	0.274	0.000	14.43	61.26
18.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.274	0.000	0.00	0.15
19.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.129	0.275	0.000	14.43	61.26
19.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.275	0.000	0.00	0.15
20.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.129	0.276	0.000	14.43	61.26
20.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.276	0.000	0.00	0.15
21.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.129	0.277	0.000	14.43	61.26
21.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.277	0.000	0.00	0.15
22.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.129	0.278	0.000	14.43	61.26
22.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.278	0.000	0.00	0.15
23.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.129	0.279	0.000	14.43	61.26
23.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.279	0.000	0.00	0.15
24.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.129	0.280	0.000	14.43	61.26
24.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.280	0.000	0.00	0.15
25.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.129	0.282	0.000	14.43	61.26
25.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.282	0.000	0.00	0.15
26.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.129	0.283	0.000	14.43	61.26
26.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.283	0.000	0.00	0.15
27.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.129	0.284	0.000	14.43	61.26
27.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.284	0.000	0.00	0.15
28.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.129	0.285	0.000	14.43	61.26
28.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.285	0.000	0.00	0.15
29.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.129	0.286	0.000	14.43	61.26
29.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.286	0.000	0.00	0.15
30.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.134	0.287	0.000	14.44	61.26
30.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.134	0.287	0.000	0.00	0.15
31.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.192	0.288	0.000	14.57	61.26



Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 28 Iterations

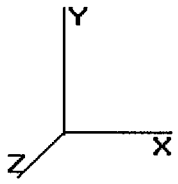
Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00

Wind Importance Factor : 1.00

31.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.192	0.288	0.000	0.00	0.15
32.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.248	0.289	0.000	14.71	61.26
32.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.248	0.289	0.000	0.00	0.15
33.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.303	0.290	0.000	14.84	61.26
33.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.303	0.290	0.000	0.00	0.15
34.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.357	0.291	0.000	14.96	61.26
34.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.357	0.291	0.000	0.00	0.15
35.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.410	0.292	0.000	15.09	61.26
35.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.410	0.292	0.000	0.00	0.15
36.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.462	0.293	0.000	15.21	61.26
36.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.462	0.293	0.000	0.00	0.15
37.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.513	0.295	0.000	15.33	61.26
37.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.513	0.295	0.000	0.00	0.15
38.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.562	0.296	0.000	15.45	61.26
38.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.562	0.296	0.000	0.00	0.15
39.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.611	0.297	0.000	15.56	61.26
39.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.611	0.297	0.000	0.00	0.15
40.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.659	0.298	0.000	15.68	61.26
40.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.659	0.298	0.000	0.00	0.15
41.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.706	0.299	0.000	15.79	61.26
41.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.706	0.299	0.000	0.00	0.15
42.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.753	0.300	0.000	15.90	61.26
42.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.753	0.300	0.000	0.00	0.15
43.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.798	0.302	0.000	16.00	61.26
43.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.798	0.302	0.000	0.00	0.15
44.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.843	0.303	0.000	16.11	61.26
44.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.843	0.303	0.000	0.00	0.15
45.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.887	0.304	0.000	16.21	61.26
45.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.887	0.304	0.000	0.00	0.15
46.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.931	0.305	0.000	16.31	61.26
46.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.931	0.305	0.000	0.00	0.15
47.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	6.973	0.306	0.000	16.42	61.26
47.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.973	0.306	0.000	0.00	0.15
48.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	7.015	0.308	0.000	16.51	61.26
48.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.015	0.308	0.000	0.00	0.15
49.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	7.057	0.309	0.000	16.61	61.26
49.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.057	0.309	0.000	0.00	0.15
50.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	7.098	0.310	0.000	16.71	61.26
50.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.098	0.310	0.000	0.00	0.15
51.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	7.138	0.311	0.000	16.80	61.26
51.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.138	0.311	0.000	0.00	0.15
52.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	7.178	0.313	0.000	16.90	61.26
52.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.178	0.313	0.000	0.00	0.15
53.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	7.217	0.314	0.000	16.99	61.26
53.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.217	0.314	0.000	0.00	0.15
54.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	7.255	0.315	0.000	17.08	61.26
54.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.255	0.315	0.000	0.00	0.15
55.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	7.294	0.317	0.000	17.17	61.26
55.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.294	0.317	0.000	0.00	0.15
56.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	7.331	0.315	0.000	17.26	61.26
56.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.331	0.315	0.000	0.00	0.15
57.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	7.368	0.317	0.000	17.35	61.26
57.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.368	0.317	0.000	0.00	0.15
58.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	7.405	0.318	0.000	17.43	61.26
58.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.405	0.318	0.000	0.00	0.15
59.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	7.441	0.319	0.000	17.52	61.26
59.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.441	0.319	0.000	0.00	0.15

Pole : 302523
Location : New Milford CT 2, CT
Height : 150.0 (ft)
Base Dia : 53.90 (in)
Top Dia : 15.00 (in)
Shape : 12 Sides
Taper : 0.156700 (in/ft)

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

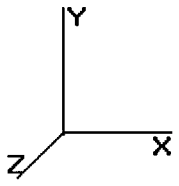


Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 28 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00

Wind Importance Factor : 1.00

60.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	7.477	0.321	0.000	17.60	61.26
60.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.477	0.321	0.000	0.00	0.15
61.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	7.513	0.322	0.000	17.68	61.26
61.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.513	0.322	0.000	0.00	0.15
62.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	7.548	0.324	0.000	17.77	61.26
62.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.548	0.324	0.000	0.00	0.15
63.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	7.582	0.325	0.000	17.85	61.26
63.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.582	0.325	0.000	0.00	0.15
64.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	7.616	0.326	0.000	17.93	61.26
64.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.616	0.326	0.000	0.00	0.15
65.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	7.650	0.328	0.000	18.01	61.26
65.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.650	0.328	0.000	0.00	0.15
66.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	7.684	0.329	0.000	18.09	61.26
66.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.684	0.329	0.000	0.00	0.15
67.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	7.717	0.331	0.000	18.17	61.26
67.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.717	0.331	0.000	0.00	0.15
68.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	7.749	0.332	0.000	18.24	61.26
68.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.749	0.332	0.000	0.00	0.15
69.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	7.782	0.333	0.000	18.32	61.26
69.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.782	0.333	0.000	0.00	0.15
70.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	7.814	0.335	0.000	18.39	61.26
70.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.814	0.335	0.000	0.00	0.15
71.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	7.846	0.336	0.000	18.47	61.26
71.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.846	0.336	0.000	0.00	0.15
72.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	7.877	0.338	0.000	18.54	61.26
72.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.877	0.338	0.000	0.00	0.15
73.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	7.908	0.339	0.000	18.62	61.26
73.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.908	0.339	0.000	0.00	0.15
74.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	7.939	0.341	0.000	18.69	61.26
74.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.939	0.341	0.000	0.00	0.15
75.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	7.969	0.342	0.000	18.76	61.26
75.00	(1) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.969	0.342	0.000	0.00	0.15
76.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	8.000	0.344	0.000	18.83	61.26
77.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	8.030	0.346	0.000	18.90	61.26
78.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	8.059	0.347	0.000	18.97	61.26
79.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	8.089	0.349	0.000	19.04	61.26
80.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	8.118	0.487	0.000	7.44	50.10
80.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	8.118	0.487	0.000	19.11	61.26
81.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	8.147	0.489	0.000	7.47	50.10
81.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	8.147	0.489	0.000	19.18	61.26
82.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	8.175	0.491	0.000	7.49	50.10
82.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	8.175	0.491	0.000	19.24	61.26
83.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	8.204	0.494	0.000	7.52	50.10
83.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	8.204	0.494	0.000	19.31	61.26
84.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	8.232	0.496	0.000	7.55	50.10
84.00	(2) Seam Flange	Yes	1.00	2.000	12.84	1.07	2.14	8.232	0.496	0.000	19.38	61.26
84.11	(3) #20 Dywidag Bars	Yes	0.11	2.000	5.00	0.05	0.09	8.235	0.497	0.000	0.83	5.51
84.11	(2) Seam Flange	Yes	0.11	2.000	12.84	0.12	0.24	8.235	0.497	0.000	2.13	6.73
85.00	(3) #20 Dywidag Bars	Yes	0.89	2.000	5.00	0.37	0.74	8.260	0.498	0.000	6.74	44.59
85.00	(2) Seam Flange	Yes	0.89	2.000	12.84	0.95	1.90	8.260	0.498	0.000	17.31	54.53
86.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.287	0.498	0.000	3.63	9.84
86.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.287	0.498	0.000	3.63	9.84
86.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	8.287	0.498	0.000	7.60	50.10
87.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.315	0.501	0.000	3.64	9.84
87.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.315	0.501	0.000	3.64	9.84
87.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	8.315	0.501	0.000	7.62	50.10
88.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.342	0.504	0.000	3.65	9.84



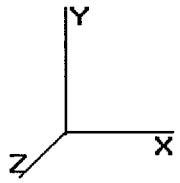
Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 28 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00

Wind Importance Factor : 1.00

88.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.342	0.504	0.000	3.65	9.84
88.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	8.342	0.504	0.000	7.65	50.10
89.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.369	0.507	0.000	3.66	9.84
89.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.369	0.507	0.000	3.66	9.84
89.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	8.369	0.507	0.000	7.67	50.10
90.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.396	0.511	0.000	3.68	9.84
90.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.396	0.511	0.000	3.68	9.84
90.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	8.396	0.511	0.000	7.70	50.10
91.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.422	0.514	0.000	3.69	9.84
91.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.422	0.514	0.000	3.69	9.84
91.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	8.422	0.514	0.000	7.72	50.10
92.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.448	0.517	0.000	3.70	9.84
92.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.448	0.517	0.000	3.70	9.84
92.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	8.448	0.517	0.000	7.74	50.10
93.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.475	0.521	0.000	3.71	9.84
93.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.475	0.521	0.000	3.71	9.84
93.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	8.475	0.521	0.000	7.77	50.10
94.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.501	0.524	0.000	3.72	9.84
94.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.501	0.524	0.000	3.72	9.84
94.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	8.501	0.524	0.000	7.79	50.10
95.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.526	0.528	0.000	3.73	9.84
95.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.526	0.528	0.000	3.73	9.84
95.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	8.526	0.528	0.000	7.82	50.10
95.50	(12) 1 5/8" Coax	Yes	0.50	1.200	3.98	0.17	0.20	8.539	0.530	0.000	1.87	4.92
95.50	(12) 1 5/8" Coax	Yes	0.50	1.200	3.98	0.17	0.20	8.539	0.530	0.000	1.87	4.92
95.50	(3) #20 Dywidag Bars	Yes	0.50	2.000	5.00	0.21	0.42	8.539	0.530	0.000	3.91	25.05
96.00	(12) 1 5/8" Coax	Yes	0.50	1.200	3.98	0.17	0.20	8.552	0.532	0.000	1.87	4.92
96.00	(12) 1 5/8" Coax	Yes	0.50	1.200	3.98	0.17	0.20	8.552	0.532	0.000	1.87	4.92
96.00	(3) #20 Dywidag Bars	Yes	0.50	2.000	5.00	0.21	0.42	8.552	0.532	0.000	3.92	25.05
97.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.577	0.535	0.000	3.76	9.84
97.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.577	0.535	0.000	3.76	9.84
97.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	8.577	0.535	0.000	7.86	50.10
98.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.602	0.539	0.000	3.77	9.84
98.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.602	0.539	0.000	3.77	9.84
98.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	8.602	0.539	0.000	7.89	50.10
99.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.627	0.542	0.000	3.78	9.84
99.00	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.627	0.542	0.000	3.78	9.84
99.00	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	8.627	0.542	0.000	7.91	50.10
100.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.652	0.546	0.000	3.79	9.84
100.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.652	0.546	0.000	3.79	9.84
100.0	(3) #20 Dywidag Bars	Yes	1.00	2.000	5.00	0.42	0.83	8.652	0.546	0.000	7.93	50.10
101.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.677	0.338	0.000	3.80	9.84
101.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.677	0.338	0.000	3.80	9.84
102.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.701	0.340	0.000	3.81	9.84
102.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.701	0.340	0.000	3.81	9.84
103.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.726	0.343	0.000	3.82	9.84
103.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.726	0.343	0.000	3.82	9.84
104.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.750	0.345	0.000	3.83	9.84
104.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.750	0.345	0.000	3.83	9.84
105.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.774	0.348	0.000	3.84	9.84
105.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.774	0.348	0.000	3.84	9.84
106.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.797	0.350	0.000	3.85	9.84
106.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.797	0.350	0.000	3.85	9.84
107.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.821	0.353	0.000	3.86	9.84
107.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.821	0.353	0.000	3.86	9.84
108.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.845	0.355	0.000	3.87	9.84
108.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.845	0.355	0.000	3.87	9.84

Pole :	302523	Code: ANSI/TIA-222 Rev G	9/21/2012 10:16:31 AM
Location :	New Milford CT 2, CT	Struct Class : II	Page: 59
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

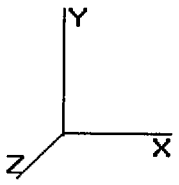


Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 28 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00
Wind Importance Factor : 1.00

109.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.868	0.358	0.000	3.88	9.84
109.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.868	0.358	0.000	3.88	9.84
110.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.891	0.360	0.000	3.89	9.84
110.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	8.891	0.360	0.000	3.89	9.84
111.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	8.914	0.182	1.245	0.00	9.84
112.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	8.937	0.183	1.249	0.00	9.84
113.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	8.960	0.184	1.253	0.00	9.84
114.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	8.982	0.186	1.257	0.00	9.84
115.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	9.005	0.187	1.261	0.00	9.84
116.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	9.027	0.189	1.266	0.00	9.84
117.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	9.049	0.190	1.270	0.00	9.84
118.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	9.071	0.191	1.274	0.00	9.84
119.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	9.093	0.193	1.279	0.00	9.84
120.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	9.115	0.194	1.283	0.00	9.84
121.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	9.136	0.196	1.288	0.00	9.84
122.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	9.158	0.198	1.293	0.00	9.84
123.0	(12) 1 5/8" Coax	Yes	1.00	0.000	3.98	0.33	0.00	9.179	0.199	1.298	0.00	9.84
124.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	9.201	0.201	0.000	4.03	9.84
125.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	9.222	0.203	0.000	4.04	9.84
126.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	9.243	0.204	0.000	4.05	9.84
127.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	9.264	0.206	0.000	4.06	9.84
128.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	9.284	0.208	0.000	4.06	9.84
129.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	9.305	0.209	0.000	4.07	9.84
130.0	(12) 1 5/8" Coax	Yes	1.00	1.200	3.98	0.33	0.40	9.326	0.211	0.000	4.08	9.84
										Totals:	1,689.78	6,652.11

Pole :	302523	Code: ANSI/TIA-222 Rev G	9/21/2012 10:16:32 AM
Location :	New Milford CT 2, CT	Struct Class : II	Page: 60
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

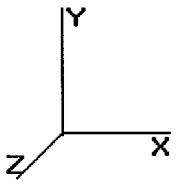


Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 28 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00
Wind Importance 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
1.00	31.18	434.44	0.00	0.00
2.00	30.85	429.78	0.00	0.00
3.00	30.52	425.12	0.00	0.00
4.00	30.19	420.46	0.00	0.00
5.00	29.86	415.80	0.00	0.00
6.00	49.87	516.54	0.00	0.00
7.00	49.47	511.88	0.00	0.00
8.00	49.08	507.22	0.00	0.00
9.00	48.68	502.56	0.00	0.00
10.00	48.29	497.90	0.00	0.00
11.00	47.89	493.24	0.00	0.00
12.00	47.49	488.58	0.00	0.00
13.00	47.10	483.92	0.00	0.00
14.00	46.70	479.26	0.00	0.00
15.00	46.31	474.60	0.00	0.00
16.00	46.20	443.10	0.00	0.00
17.00	46.08	441.88	0.00	0.00
18.00	45.97	440.66	0.00	0.00
19.00	45.86	439.43	0.00	0.00
20.00	45.74	438.21	0.00	0.00
21.00	45.63	436.98	0.00	0.00
22.00	45.52	435.76	0.00	0.00
23.00	45.40	434.53	0.00	0.00
24.00	45.29	433.31	0.00	0.00
25.00	45.17	432.09	0.00	0.00
26.00	45.06	430.86	0.00	0.00
27.00	44.95	429.64	0.00	0.00
28.00	44.83	428.41	0.00	0.00
29.00	44.72	427.19	0.00	0.00
30.00	44.65	425.97	0.00	0.00
31.00	44.95	424.74	0.00	0.00
32.00	45.25	423.52	0.00	0.00
33.00	45.53	422.29	0.00	0.00
34.00	45.80	421.07	0.00	0.00
35.00	46.06	419.85	0.00	0.00
36.00	46.32	418.62	0.00	0.00
37.00	46.56	417.40	0.00	0.00
38.00	46.79	416.17	0.00	0.00
39.00	47.02	414.95	0.00	0.00
40.00	47.24	413.73	0.00	0.00
41.00	47.45	412.50	0.00	0.00
42.00	47.65	411.28	0.00	0.00
43.00	47.85	410.05	0.00	0.00
44.00	48.04	408.83	0.00	0.00
45.00	48.22	407.60	0.00	0.00
46.00	48.39	406.38	0.00	0.00
47.00	48.56	405.16	0.00	0.00
48.00	48.73	403.93	0.00	0.00
49.00	48.88	402.71	0.00	0.00



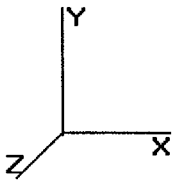
Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 28 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00

Wind Importance Factor : 1.00

50.00	49.03	401.48	0.00	0.00
51.00	49.18	400.26	0.00	0.00
52.00	49.32	399.04	0.00	0.00
53.00	49.46	397.81	0.00	0.00
54.00	49.59	396.59	0.00	0.00
55.00	49.71	395.36	0.00	0.00
56.00	50.08	370.37	0.00	0.00
57.00	50.20	369.25	0.00	0.00
58.00	50.31	368.13	0.00	0.00
59.00	50.42	367.01	0.00	0.00
60.00	50.52	365.90	0.00	0.00
61.00	50.62	364.78	0.00	0.00
62.00	50.72	363.66	0.00	0.00
63.00	50.81	362.54	0.00	0.00
64.00	50.90	361.42	0.00	0.00
65.00	50.98	360.30	0.00	0.00
66.00	51.06	359.18	0.00	0.00
67.00	51.14	358.07	0.00	0.00
68.00	51.21	356.95	0.00	0.00
69.00	51.28	355.83	0.00	0.00
70.00	51.35	354.71	0.00	0.00
71.00	51.41	353.59	0.00	0.00
72.00	51.47	352.47	0.00	0.00
73.00	51.52	351.35	0.00	0.00
74.00	51.58	350.24	0.00	0.00
75.00	60.39	359.12	0.00	0.00
76.00	51.67	300.01	0.00	0.00
77.00	51.72	299.12	0.00	0.00
78.00	51.76	298.22	0.00	0.00
79.00	51.80	297.33	0.00	0.00
80.00	59.27	346.53	0.00	0.00
81.00	59.33	345.64	0.00	0.00
82.00	59.39	344.74	0.00	0.00
83.00	59.44	343.85	0.00	0.00
84.00	59.49	342.95	0.00	0.00
84.11	6.53	37.64	0.00	0.00
85.00	52.99	349.02	0.00	0.00
86.00	38.59	212.39	0.00	0.00
87.00	38.57	211.96	0.00	0.00
88.00	38.54	211.52	0.00	0.00
89.00	38.51	211.08	0.00	0.00
90.00	38.48	210.65	0.00	0.00
91.00	38.45	210.21	0.00	0.00
92.00	38.42	209.78	0.00	0.00
93.00	38.39	209.34	0.00	0.00
94.00	38.35	208.90	0.00	0.00
95.00	38.31	208.47	0.00	0.00
95.50	19.13	104.07	0.00	0.00
96.00	19.12	78.91	0.00	0.00
97.00	38.23	157.50	0.00	0.00
98.00	38.18	157.06	0.00	0.00
99.00	38.14	156.62	0.00	0.00
100.0	38.09	156.19	0.00	0.00
101.0	30.09	105.65	0.00	0.00
102.0	30.02	105.22	0.00	0.00
103.0	29.94	104.78	0.00	0.00
104.0	29.87	104.34	0.00	0.00

Pole :	302523	Code: ANSI/TIA-222 Rev G	
Location :	New Milford CT 2, CT	Struct Class : II	
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

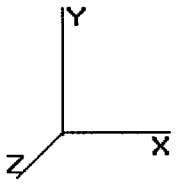


Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 28 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00
Wind Importance Factor : 1.00

105.0		29.79	103.91	0.00	0.00
106.0		29.71	103.47	0.00	0.00
107.0		29.63	103.04	0.00	0.00
108.0		29.55	102.60	0.00	0.00
109.0		29.47	102.16	0.00	0.00
110.0		553.76	1,256.73	0.00	0.00
111.0		17.91	77.26	0.00	0.00
112.0		17.82	76.94	0.00	0.00
113.0		17.74	76.62	0.00	0.00
114.0		17.65	76.29	0.00	0.00
115.0		17.56	75.97	0.00	0.00
116.0		17.47	75.65	0.00	0.00
117.0		17.38	75.33	0.00	0.00
118.0		17.28	75.01	0.00	0.00
119.0		17.19	74.69	0.00	0.00
120.0		17.10	74.37	0.00	0.00
121.0		17.00	74.05	0.00	0.00
122.0		16.91	73.73	0.00	0.00
123.0		16.81	73.41	0.00	0.00
124.0		24.08	73.08	0.00	0.00
125.0		23.97	72.76	0.00	0.00
126.0		23.86	72.44	0.00	0.00
127.0		23.75	72.12	0.00	0.00
128.0		23.64	71.80	0.00	0.00
129.0		23.53	71.48	0.00	0.00
130.0		735.06	1,804.96	0.00	738.83
131.0		16.01	61.00	0.00	0.00
132.0		15.90	60.68	0.00	0.00
133.0		15.80	60.36	0.00	0.00
134.0		15.69	60.04	0.00	0.00
135.0		15.59	59.71	0.00	0.00
136.0		15.48	59.39	0.00	0.00
137.0		15.37	59.07	0.00	0.00
138.0		15.26	58.75	0.00	0.00
139.0		15.15	58.43	0.00	0.00
140.0		570.91	1,852.11	0.00	604.76
141.0		14.93	49.87	0.00	0.00
142.0		14.82	49.55	0.00	0.00
143.0		14.71	49.23	0.00	0.00
144.0		14.59	48.91	0.00	0.00
145.0		14.48	48.59	0.00	0.00
146.0		14.37	48.26	0.00	0.00
147.0		14.25	47.94	0.00	0.00
148.0		14.13	47.62	0.00	0.00
149.0		14.02	47.30	0.00	0.00
150.0		711.24	2,305.08	0.00	2,162.04
	Totals:	8,151.24	47,816.99	0.00	3,505.63

Pole :	302523	Code: ANSI/TIA-222 Rev G	9/21/2012 10:16:32 AM
Location :	New Milford CT 2, CT	Struct Class : II	Page: 63
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		



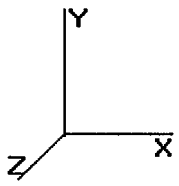
Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 28 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00
Wind 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	-47.82	-8.15	0.00	-713.14	0.00	713.14	5,589.22	2,794.61	12,188.1	6,019.28	0.00	0.00	0.127
1.00	-47.38	-8.12	0.00	-704.99	0.00	704.99	5,529.59	2,764.80	11,927.7	5,890.65	0.00	0.00	0.128
2.00	-46.95	-8.10	0.00	-696.86	0.00	696.86	5,469.96	2,734.98	11,670.0	5,763.42	0.00	-0.01	0.130
3.00	-46.53	-8.07	0.00	-688.77	0.00	688.77	5,410.34	2,705.17	11,415.2	5,637.57	0.00	-0.01	0.131
4.00	-46.10	-8.04	0.00	-680.70	0.00	680.70	5,350.71	2,675.36	11,163.2	5,513.11	0.01	-0.02	0.132
5.00	-45.69	-8.02	0.00	-672.66	0.00	672.66	5,291.09	2,645.54	10,914.0	5,390.04	0.01	-0.02	0.133
6.00	-45.17	-7.97	0.00	-664.64	0.00	664.64	5,231.46	2,615.73	10,667.6	5,268.37	0.02	-0.03	0.135
7.00	-44.66	-7.92	0.00	-656.67	0.00	656.67	5,171.84	2,585.92	10,424.1	5,148.08	0.02	-0.03	0.136
8.00	-44.15	-7.88	0.00	-648.74	0.00	648.74	5,112.21	2,556.11	10,183.3	5,029.18	0.03	-0.04	0.138
9.00	-43.65	-7.83	0.00	-640.86	0.00	640.86	5,052.58	2,526.29	9,945.41	4,911.66	0.04	-0.04	0.139
10.00	-43.15	-7.79	0.00	-633.03	0.00	633.03	4,992.96	2,496.48	9,710.28	4,795.54	0.05	-0.05	0.141
11.00	-42.65	-7.75	0.00	-625.24	0.00	625.24	4,933.33	2,466.67	9,477.97	4,680.81	0.06	-0.05	0.142
12.00	-42.17	-7.70	0.00	-617.50	0.00	617.50	4,873.71	2,436.85	9,248.46	4,567.47	0.07	-0.06	0.144
13.00	-41.68	-7.66	0.00	-609.79	0.00	609.79	4,814.08	2,407.04	9,021.78	4,455.52	0.08	-0.06	0.146
14.00	-41.20	-7.62	0.00	-602.14	0.00	602.14	4,754.46	2,377.23	8,797.90	4,344.95	0.10	-0.07	0.147
15.00	-40.73	-7.57	0.00	-594.52	0.00	594.52	4,694.83	2,347.42	8,576.84	4,235.78	0.11	-0.08	0.149
15.00	-40.73	-7.57	0.00	-594.52	0.00	594.52	4,521.17	2,260.59	8,321.30	4,109.58	0.11	-0.08	0.154
16.00	-40.28	-7.53	0.00	-586.95	0.00	586.95	4,504.82	2,252.41	8,260.75	4,079.67	0.13	-0.08	0.153
17.00	-39.84	-7.49	0.00	-579.42	0.00	579.42	4,488.46	2,244.23	8,200.41	4,049.87	0.15	-0.09	0.152
18.00	-39.40	-7.45	0.00	-571.93	0.00	571.93	4,472.10	2,236.05	8,140.29	4,020.18	0.17	-0.10	0.151
19.00	-38.96	-7.40	0.00	-564.49	0.00	564.49	4,455.74	2,227.87	8,080.40	3,990.60	0.19	-0.10	0.150
20.00	-38.52	-7.36	0.00	-557.08	0.00	557.08	4,439.38	2,219.69	8,020.72	3,961.13	0.21	-0.11	0.149
21.00	-38.08	-7.32	0.00	-549.72	0.00	549.72	4,423.02	2,211.51	7,961.27	3,931.77	0.24	-0.12	0.148
22.00	-37.64	-7.28	0.00	-542.40	0.00	542.40	4,406.67	2,203.33	7,902.04	3,902.52	0.26	-0.12	0.148
23.00	-37.21	-7.23	0.00	-535.13	0.00	535.13	4,390.31	2,195.15	7,843.03	3,873.38	0.29	-0.13	0.147
24.00	-36.77	-7.19	0.00	-527.89	0.00	527.89	4,373.95	2,186.97	7,784.24	3,844.34	0.31	-0.13	0.146
25.00	-36.34	-7.15	0.00	-520.70	0.00	520.70	4,357.59	2,178.80	7,725.67	3,815.42	0.34	-0.14	0.145
26.00	-35.91	-7.11	0.00	-513.55	0.00	513.55	4,341.23	2,170.62	7,667.32	3,786.60	0.37	-0.15	0.144
27.00	-35.48	-7.07	0.00	-506.44	0.00	506.44	4,324.87	2,162.44	7,609.20	3,757.90	0.40	-0.15	0.143
28.00	-35.05	-7.02	0.00	-499.37	0.00	499.37	4,308.52	2,154.26	7,551.29	3,729.30	0.44	-0.16	0.142
29.00	-34.62	-6.98	0.00	-492.35	0.00	492.35	4,292.16	2,146.08	7,493.61	3,700.81	0.47	-0.17	0.141
30.00	-34.20	-6.94	0.00	-485.37	0.00	485.37	4,275.80	2,137.90	7,436.15	3,672.43	0.51	-0.17	0.140
31.00	-33.77	-6.90	0.00	-478.43	0.00	478.43	4,259.44	2,129.72	7,378.91	3,644.16	0.54	-0.18	0.139
32.00	-33.35	-6.85	0.00	-471.53	0.00	471.53	4,243.08	2,121.54	7,321.89	3,616.00	0.58	-0.19	0.138
33.00	-32.92	-6.81	0.00	-464.68	0.00	464.68	4,226.72	2,113.36	7,265.09	3,587.95	0.62	-0.19	0.137
34.00	-32.50	-6.77	0.00	-457.86	0.00	457.86	4,210.37	2,105.18	7,208.51	3,560.01	0.66	-0.20	0.136
35.00	-32.08	-6.72	0.00	-451.10	0.00	451.10	4,194.01	2,097.00	7,152.15	3,532.18	0.71	-0.20	0.135
36.00	-31.66	-6.68	0.00	-444.37	0.00	444.37	4,177.65	2,088.82	7,096.02	3,504.46	0.75	-0.21	0.134
37.00	-31.24	-6.63	0.00	-437.70	0.00	437.70	4,161.29	2,080.65	7,040.10	3,476.84	0.79	-0.22	0.133
38.00	-30.83	-6.59	0.00	-431.06	0.00	431.06	4,144.93	2,072.47	6,984.41	3,449.34	0.84	-0.22	0.132
39.00	-30.41	-6.54	0.00	-424.47	0.00	424.47	4,128.57	2,064.29	6,928.94	3,421.94	0.89	-0.23	0.131
40.00	-30.00	-6.50	0.00	-417.93	0.00	417.93	4,112.22	2,056.11	6,873.69	3,394.66	0.94	-0.24	0.130
41.00	-29.59	-6.45	0.00	-411.43	0.00	411.43	4,095.86	2,047.93	6,818.66	3,367.48	0.99	-0.24	0.129
42.00	-29.17	-6.41	0.00	-404.98	0.00	404.98	4,079.50	2,039.75	6,763.85	3,340.41	1.04	-0.25	0.128
43.00	-28.76	-6.36	0.00	-398.57	0.00	398.57	4,063.14	2,031.57	6,709.27	3,313.46	1.09	-0.25	0.127
44.00	-28.35	-6.31	0.00	-392.21	0.00	392.21	4,046.78	2,023.39	6,654.90	3,286.61	1.14	-0.26	0.126
45.00	-27.95	-6.27	0.00	-385.90	0.00	385.90	4,030.42	2,015.21	6,600.76	3,259.87	1.20	-0.27	0.125
46.00	-27.54	-6.22	0.00	-379.64	0.00	379.64	4,014.07	2,007.03	6,546.84	3,233.24	1.26	-0.27	0.124
47.00	-27.13	-6.17	0.00	-373.42	0.00	373.42	3,997.71	1,998.85	6,493.13	3,206.71	1.31	-0.28	0.123
48.00	-26.73	-6.12	0.00	-367.25	0.00	367.25	3,981.35	1,990.67	6,439.65	3,180.30	1.37	-0.28	0.122
49.00	-26.33	-6.07	0.00	-361.13	0.00	361.13	3,964.99	1,982.50	6,386.39	3,154.00	1.43	-0.29	0.121

Pole :	302523	Code: ANSI/TIA-222 Rev G	9/21/2012 10:16:32 AM
Location :	New Milford CT 2, CT	Struct Class : II	Page: 64
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		



Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 28 Iterations

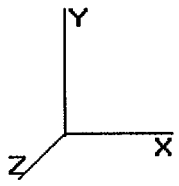
Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

50.00	-25.92	-6.03	0.00	-355.05	0.00	355.05	3,948.63	1,974.32	6,333.36	3,127.81	1.49	-0.30	0.120
51.00	-25.52	-5.98	0.00	-349.03	0.00	349.03	3,932.27	1,966.14	6,280.54	3,101.72	1.56	-0.30	0.119
52.00	-25.12	-5.93	0.00	-343.05	0.00	343.05	3,915.92	1,957.96	6,227.94	3,075.75	1.62	-0.31	0.118
53.00	-24.73	-5.88	0.00	-337.12	0.00	337.12	3,899.56	1,949.78	6,175.57	3,049.88	1.69	-0.31	0.117
54.00	-24.33	-5.83	0.00	-331.24	0.00	331.24	3,883.20	1,941.60	6,123.42	3,024.13	1.75	-0.32	0.116
55.00	-23.93	-5.78	0.00	-325.41	0.00	325.41	3,866.84	1,933.42	6,071.48	2,998.48	1.82	-0.32	0.115
55.00	-23.93	-5.78	0.00	-325.41	0.00	325.41	3,220.97	1,610.49	5,114.03	2,525.63	1.82	-0.32	0.136
56.00	-23.56	-5.73	0.00	-319.63	0.00	319.63	3,207.40	1,603.70	5,070.70	2,504.23	1.89	-0.33	0.135
57.00	-23.19	-5.68	0.00	-313.90	0.00	313.90	3,193.84	1,596.92	5,027.55	2,482.92	1.96	-0.34	0.134
58.00	-22.82	-5.63	0.00	-308.22	0.00	308.22	3,180.27	1,590.13	4,984.58	2,461.70	2.03	-0.34	0.132
59.00	-22.46	-5.58	0.00	-302.59	0.00	302.59	3,166.70	1,583.35	4,941.80	2,440.57	2.10	-0.35	0.131
60.00	-22.09	-5.53	0.00	-297.01	0.00	297.01	3,153.13	1,576.57	4,899.21	2,419.54	2.17	-0.35	0.130
61.00	-21.73	-5.48	0.00	-291.48	0.00	291.48	3,139.57	1,569.78	4,856.80	2,398.59	2.25	-0.36	0.128
62.00	-21.36	-5.43	0.00	-286.00	0.00	286.00	3,126.00	1,563.00	4,814.57	2,377.74	2.33	-0.37	0.127
63.00	-21.00	-5.38	0.00	-280.58	0.00	280.58	3,112.43	1,556.21	4,772.53	2,356.97	2.40	-0.37	0.126
64.00	-20.64	-5.33	0.00	-275.20	0.00	275.20	3,098.86	1,549.43	4,730.67	2,336.30	2.48	-0.38	0.124
65.00	-20.28	-5.27	0.00	-269.87	0.00	269.87	3,085.29	1,542.65	4,689.00	2,315.72	2.56	-0.38	0.123
66.00	-19.92	-5.22	0.00	-264.60	0.00	264.60	3,071.73	1,535.86	4,647.51	2,295.23	2.64	-0.39	0.122
67.00	-19.56	-5.17	0.00	-259.37	0.00	259.37	3,058.16	1,529.08	4,606.20	2,274.83	2.73	-0.40	0.120
68.00	-19.20	-5.12	0.00	-254.20	0.00	254.20	3,044.59	1,522.30	4,565.08	2,254.52	2.81	-0.40	0.119
69.00	-18.85	-5.07	0.00	-249.08	0.00	249.08	3,031.02	1,515.51	4,524.15	2,234.31	2.89	-0.41	0.118
70.00	-18.49	-5.02	0.00	-244.02	0.00	244.02	3,017.46	1,508.73	4,483.40	2,214.18	2.98	-0.41	0.116
71.00	-18.14	-4.96	0.00	-239.00	0.00	239.00	3,003.89	1,501.94	4,442.83	2,194.15	3.07	-0.42	0.115
72.00	-17.79	-4.91	0.00	-234.04	0.00	234.04	2,990.32	1,495.16	4,402.45	2,174.20	3.15	-0.42	0.114
73.00	-17.43	-4.86	0.00	-229.12	0.00	229.12	2,976.75	1,488.38	4,362.25	2,154.35	3.24	-0.43	0.112
74.00	-17.08	-4.81	0.00	-224.27	0.00	224.27	2,963.19	1,481.59	4,322.24	2,134.59	3.33	-0.43	0.111
75.00	-16.73	-4.74	0.00	-219.46	0.00	219.46	2,949.62	1,474.81	4,282.41	2,114.92	3.43	-0.44	0.109
75.00	-16.73	-4.74	0.00	-219.46	0.00	219.46	2,628.21	1,314.11	3,842.67	1,897.75	3.43	-0.44	0.122
76.00	-16.43	-4.69	0.00	-214.72	0.00	214.72	2,616.17	1,308.08	3,807.28	1,880.27	3.52	-0.45	0.120
77.00	-16.13	-4.64	0.00	-210.02	0.00	210.02	2,604.12	1,302.06	3,772.05	1,862.87	3.61	-0.45	0.119
78.00	-15.83	-4.59	0.00	-205.38	0.00	205.38	2,592.07	1,296.04	3,736.99	1,845.56	3.71	-0.46	0.117
79.00	-15.53	-4.54	0.00	-200.79	0.00	200.79	2,580.03	1,290.01	3,702.09	1,828.32	3.81	-0.47	0.116
80.00	-15.18	-4.48	0.00	-196.26	0.00	196.26	2,567.98	1,283.99	3,667.36	1,811.17	3.90	-0.47	0.114
81.00	-14.84	-4.41	0.00	-191.78	0.00	191.78	2,555.93	1,277.97	3,632.78	1,794.10	4.00	-0.48	0.113
82.00	-14.49	-4.35	0.00	-187.37	0.00	187.37	2,543.88	1,271.94	3,598.38	1,777.10	4.10	-0.48	0.111
83.00	-14.15	-4.29	0.00	-183.02	0.00	183.02	2,531.84	1,265.92	3,564.13	1,760.19	4.21	-0.49	0.110
84.00	-13.81	-4.23	0.00	-178.72	0.00	178.72	2,519.79	1,259.89	3,530.05	1,743.36	4.31	-0.50	0.108
84.11	-13.77	-4.23	0.00	-178.26	0.00	178.26	2,518.47	1,259.23	3,526.32	1,741.52	4.32	-0.50	0.108
85.00	-13.42	-4.17	0.00	-174.50	0.00	174.50	2,507.74	1,253.87	3,496.14	1,726.61	4.41	-0.50	0.068
85.00	-13.42	-4.17	0.00	-174.50	0.00	174.50	1,414.25	707.13	1,455.35	718.74	4.41	-0.50	0.067
86.00	-13.21	-4.13	0.00	-170.33	0.00	170.33	1,408.59	704.29	1,440.18	711.25	4.52	-0.51	0.085
87.00	-13.00	-4.09	0.00	-166.20	0.00	166.20	1,402.88	701.44	1,425.06	703.78	4.63	-0.52	0.084
88.00	-12.78	-4.06	0.00	-162.10	0.00	162.10	1,397.13	698.56	1,409.96	696.33	4.74	-0.53	0.082
89.00	-12.57	-4.02	0.00	-158.05	0.00	158.05	1,391.33	695.67	1,394.89	688.89	4.85	-0.54	0.080
90.00	-12.36	-3.98	0.00	-154.03	0.00	154.03	1,385.49	692.75	1,379.86	681.46	4.96	-0.55	0.078
91.00	-12.15	-3.94	0.00	-150.05	0.00	150.05	1,379.61	689.81	1,364.87	674.06	5.08	-0.56	0.077
92.00	-11.94	-3.90	0.00	-146.11	0.00	146.11	1,373.69	686.84	1,349.91	666.67	5.19	-0.57	0.075
93.00	-11.73	-3.86	0.00	-142.21	0.00	142.21	1,367.72	683.86	1,334.99	659.30	5.31	-0.57	0.073
94.00	-11.52	-3.82	0.00	-138.35	0.00	138.35	1,361.71	680.85	1,320.10	651.95	5.44	-0.58	0.071
95.00	-11.31	-3.79	0.00	-134.52	0.00	134.52	1,355.66	677.83	1,305.26	644.62	5.56	-0.59	0.070
95.50	-11.21	-3.77	0.00	-132.63	0.00	132.63	1,352.61	676.31	1,297.85	640.96	5.62	-0.60	0.069
95.50	-11.21	-3.77	0.00	-132.63	0.00	132.63	1,352.61	676.31	1,297.85	640.96	5.62	-0.60	0.215
96.00	-11.13	-3.75	0.00	-130.75	0.00	130.75	1,349.56	674.78	1,290.45	637.30	5.68	-0.60	0.213
97.00	-10.97	-3.71	0.00	-127.00	0.00	127.00	1,343.42	671.71	1,275.68	630.01	5.81	-0.63	0.210
98.00	-10.81	-3.68	0.00	-123.28	0.00	123.28	1,337.24	668.62	1,260.95	622.74	5.95	-0.66	0.206
99.00	-10.65	-3.65	0.00	-119.60	0.00	119.60	1,331.01	665.51	1,246.27	615.49	6.09	-0.69	0.202
100.00	-10.50	-3.61	0.00	-115.96	0.00	115.96	1,324.75	662.37	1,231.63	608.25	6.24	-0.71	0.199

Pole :	302523	Code: ANSI/TIA-222 Rev G	
Location :	New Milford CT 2, CT	Struct Class : II	
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		

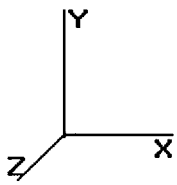


Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 28 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00
Wind Importance Factor : 1.00

101.00	-10.39	-3.58	0.00	-112.35	0.00	112.35	1,318.44	659.22	1,217.03	601.04	6.39	-0.74	0.195
102.00	-10.28	-3.56	0.00	-108.76	0.00	108.76	1,312.08	656.04	1,202.47	593.86	6.55	-0.77	0.191
103.00	-10.18	-3.53	0.00	-105.21	0.00	105.21	1,305.69	652.84	1,187.96	586.69	6.71	-0.80	0.187
104.00	-10.07	-3.50	0.00	-101.67	0.00	101.67	1,299.25	649.62	1,173.50	579.55	6.88	-0.82	0.183
105.00	-9.97	-3.48	0.00	-98.17	0.00	98.17	1,293.29	646.65	1,159.56	572.66	7.06	-0.85	0.179
106.00	-9.86	-3.45	0.00	-94.69	0.00	94.69	1,283.85	641.92	1,142.58	564.28	7.24	-0.87	0.176
107.00	-9.76	-3.42	0.00	-91.24	0.00	91.24	1,274.40	637.20	1,125.74	555.96	7.42	-0.90	0.172
108.00	-9.65	-3.40	0.00	-87.82	0.00	87.82	1,264.95	632.48	1,109.01	547.70	7.61	-0.92	0.168
109.00	-9.55	-3.37	0.00	-84.42	0.00	84.42	1,255.51	627.75	1,092.42	539.50	7.81	-0.95	0.164
110.00	-8.30	-2.80	0.00	-81.05	0.00	81.05	1,246.06	623.03	1,075.94	531.37	8.01	-0.97	0.159
110.00	-8.30	-2.80	0.00	-81.05	0.00	81.05	852.83	426.42	740.79	365.85	8.01	-0.97	0.231
111.00	-8.22	-2.78	0.00	-78.25	0.00	78.25	849.27	424.64	732.18	361.60	8.22	-1.00	0.226
112.00	-8.15	-2.77	0.00	-75.47	0.00	75.47	845.67	422.84	723.58	357.35	8.43	-1.03	0.221
113.00	-8.07	-2.75	0.00	-72.70	0.00	72.70	842.03	421.01	714.99	353.11	8.65	-1.06	0.216
114.00	-7.99	-2.74	0.00	-69.95	0.00	69.95	838.34	419.17	706.41	348.87	8.88	-1.09	0.210
115.00	-7.91	-2.72	0.00	-67.21	0.00	67.21	834.62	417.31	697.84	344.64	9.11	-1.12	0.205
116.00	-7.84	-2.71	0.00	-64.49	0.00	64.49	830.85	415.43	689.29	340.42	9.34	-1.15	0.199
117.00	-7.76	-2.69	0.00	-61.78	0.00	61.78	827.04	413.52	680.76	336.20	9.59	-1.18	0.193
118.00	-7.69	-2.68	0.00	-59.09	0.00	59.09	823.19	411.60	672.24	331.99	9.84	-1.20	0.187
119.00	-7.61	-2.66	0.00	-56.41	0.00	56.41	819.30	409.65	663.73	327.79	10.09	-1.23	0.181
120.00	-7.53	-2.65	0.00	-53.74	0.00	53.74	815.37	407.68	655.25	323.60	10.35	-1.26	0.175
121.00	-7.46	-2.63	0.00	-51.10	0.00	51.10	811.40	405.70	646.78	319.42	10.62	-1.28	0.169
122.00	-7.39	-2.62	0.00	-48.46	0.00	48.46	807.38	403.69	638.33	315.25	10.89	-1.31	0.163
123.00	-7.31	-2.60	0.00	-45.85	0.00	45.85	803.32	401.66	629.90	311.09	11.17	-1.33	0.157
124.00	-7.24	-2.58	0.00	-43.24	0.00	43.24	799.23	399.61	621.49	306.93	11.45	-1.36	0.150
125.00	-7.16	-2.56	0.00	-40.66	0.00	40.66	795.09	397.54	613.11	302.79	11.74	-1.38	0.143
126.00	-7.09	-2.53	0.00	-38.11	0.00	38.11	790.91	395.45	604.74	298.66	12.03	-1.40	0.137
127.00	-7.02	-2.51	0.00	-35.57	0.00	35.57	786.69	393.34	596.40	294.54	12.33	-1.43	0.130
128.00	-6.95	-2.49	0.00	-33.06	0.00	33.06	782.42	391.21	588.08	290.43	12.63	-1.45	0.123
129.00	-6.88	-2.46	0.00	-30.58	0.00	30.58	778.12	389.06	579.79	286.34	12.93	-1.46	0.116
130.00	-5.09	-1.68	0.00	-27.37	0.00	27.37	773.77	386.89	571.52	282.25	13.24	-1.48	0.104
131.00	-5.03	-1.67	0.00	-25.69	0.00	25.69	769.39	384.69	563.28	278.18	13.55	-1.50	0.099
132.00	-4.97	-1.65	0.00	-24.02	0.00	24.02	764.96	382.48	555.06	274.13	13.87	-1.52	0.094
133.00	-4.91	-1.64	0.00	-22.37	0.00	22.37	760.49	380.24	546.88	270.08	14.19	-1.53	0.089
134.00	-4.85	-1.62	0.00	-20.73	0.00	20.73	755.98	377.99	538.72	266.05	14.51	-1.55	0.084
135.00	-4.79	-1.60	0.00	-19.11	0.00	19.11	751.42	375.71	530.59	262.04	14.84	-1.56	0.079
136.00	-4.73	-1.59	0.00	-17.50	0.00	17.50	746.83	373.41	522.49	258.04	15.17	-1.57	0.074
137.00	-4.67	-1.57	0.00	-15.92	0.00	15.92	742.19	371.10	514.42	254.05	15.50	-1.59	0.069
138.00	-4.61	-1.56	0.00	-14.34	0.00	14.34	737.52	368.76	506.39	250.09	15.83	-1.60	0.064
139.00	-4.55	-1.54	0.00	-12.79	0.00	12.79	732.80	366.40	498.39	246.13	16.17	-1.61	0.058
140.00	-2.72	-0.92	0.00	-10.64	0.00	10.64	728.04	364.02	490.42	242.20	16.51	-1.62	0.048
141.00	-2.67	-0.90	0.00	-9.72	0.00	9.72	721.77	360.89	481.50	237.80	16.85	-1.63	0.045
142.00	-2.62	-0.89	0.00	-8.82	0.00	8.82	714.82	357.41	472.22	233.21	17.19	-1.64	0.041
143.00	-2.57	-0.87	0.00	-7.93	0.00	7.93	707.87	353.93	463.02	228.67	17.53	-1.64	0.038
144.00	-2.52	-0.86	0.00	-7.06	0.00	7.06	700.91	350.46	453.92	224.17	17.88	-1.65	0.035
145.00	-2.47	-0.84	0.00	-6.21	0.00	6.21	693.96	346.98	444.90	219.72	18.22	-1.66	0.032
146.00	-2.42	-0.82	0.00	-5.37	0.00	5.37	687.01	343.50	435.98	215.31	18.57	-1.66	0.028
147.00	-2.38	-0.81	0.00	-4.54	0.00	4.54	680.05	340.03	427.15	210.95	18.92	-1.67	0.025
148.00	-2.33	-0.79	0.00	-3.73	0.00	3.73	673.10	336.55	418.40	206.63	19.27	-1.67	0.022
149.00	-2.28	-0.78	0.00	-2.94	0.00	2.94	666.15	333.07	409.75	202.36	19.62	-1.68	0.018
150.00	0.00	-0.71	0.00	-2.16	0.00	2.16	659.19	329.60	401.19	198.13	19.97	-1.68	0.011

Pole :	302523	Code: ANSI/TIA-222 Rev G	9/21/2012 10:16:32 AM
Location :	New Milford CT 2, CT	Struct Class : II	Page: 66
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	53.90 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156700 (in/ft)		



Analysis Summary

Load Case	Reactions Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Max Usage Elev (ft)	Interaction Ratio
1.2D + 1.6W	32.95	0.00	57.26	0.00	0.00	2902.60	110.00	0.91
0.9D + 1.6W	32.70	0.00	43.09	0.00	0.00	2851.69	110.00	0.89
1.2D + 1.0Di + 1.0Wi	4.56	0.00	81.77	0.00	0.00	432.35	110.00	0.17
1.0D + 1.0W	8.15	0.00	47.82	0.00	0.00	713.14	110.00	0.23

Additional Steel Summary

Elev From (ft)	Elev To (ft)	Member	Intermediate Connectors VQ/I (lb/in)	Shear Applied (kips)	Shear phiVn (kips)	Upper Termination Connectors MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	Lower Termination Connectors MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	Max Member Pu (kip)	phiPn (kip)	Ratio
84.1	95.5	(3) SOL-#20 All Thre	363.8	10.9	16.8	150.7	12.0	13	12	84.3	12.0	8	16	182.0	330.5	0.551

Code Rev.	G	
Moment	2902.0	k-ft
Axial	57.3	k

Date	9/19/2012
Engineer	JOEJ
Site #	302523
Carrier	AT&T Mobility

Base/Flange Plate	Plate Type	*Baseplate*	
	Pole Diameter	50	in
	Pole Thickness	0.38	in
	Plate Diameter	63.08	in
	Plate Thickness	2	in
	Plate Fy	60	ksi
	Weld Length	0.3125	in
	ϕ_s Resistance	530.14	k-in
	Applied	269.32	k-in
Stiffeners	#	*0*	

Bolts	#	*16*	
	Bolt Circle	58	in
	(R)adial / (S)quare	R	
	Diameter	1.5	in
	Hole Diameter	1.625	in
	Type	A325	
	Fy	92	ksi
	Fu	120	ksi
	ϕ_s Resistance	134.90	k
	Applied	93.68	k
Reinforcement ●	#	*0*	
Extra Bolts O	#	*8*	
	Bolt Circle	44	in
	(R)adial / (S)quare	S	
	Bolt Gap	6	in
	Offset Angle	0	°
	Diameter	2.25	in
	Type	A615 GR 75	
	Fy	75	ksi
	Fu	100	ksi
	ϕ_s Resistance	259.82	k
	Applied	163.66	k

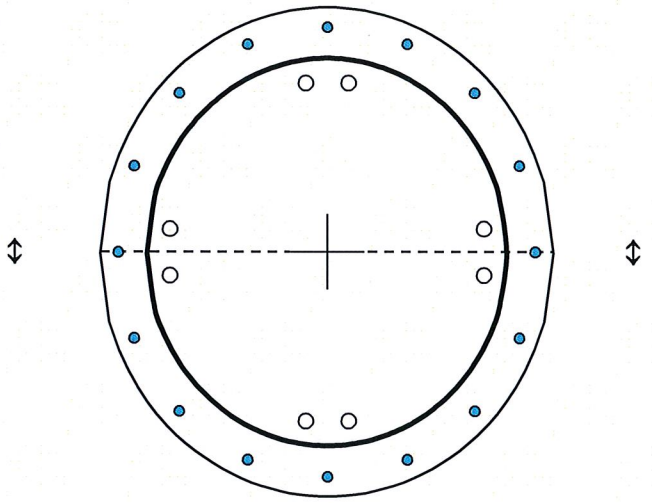


Plate Stress Ratio:
0.51 (Pass)

Bolt Stress Ratio:
0.69 (Pass)

Extra Bolt Stress Ratio:
0.63 (Pass)

Base/Flange Plate	Plate Type	*Flange @ 15.0 ft*	
	Pole Diameter	41.726	in
	Pole Thickness	0.31	in
	Plate Diameter	54.65	in
	Plate Thickness	2	in
	Plate Fy	60	ksi
	Weld Length	0.3125	in
	ϕ_s Resistance	402.09	k-in
	Applied	156.91	k-in
Stiffeners	#	*0*	

Code Rev. **G**

Moment 1502.1 k-ft
Axial 30.1 k

Date 9/19/2012
Engineer JOEJ
Site # 302523
Carrier AT&T Mobility

Required Flange Thickness:
1.25 in OK

Bolts	#	*12*	
	Bolt Circle	46.65	in
	(R)adial / (S)quare	R	
●	Diameter	1.5	in
	Hole Diameter	1.813	in
	Type	A325	
	Fy	92	ksi
	Fu	120	ksi
	ϕ_s Resistance	126.47	k
	Applied	126.23	k
Reinforcement ●	#	*0*	
Extra Bolts O	#	*0*	

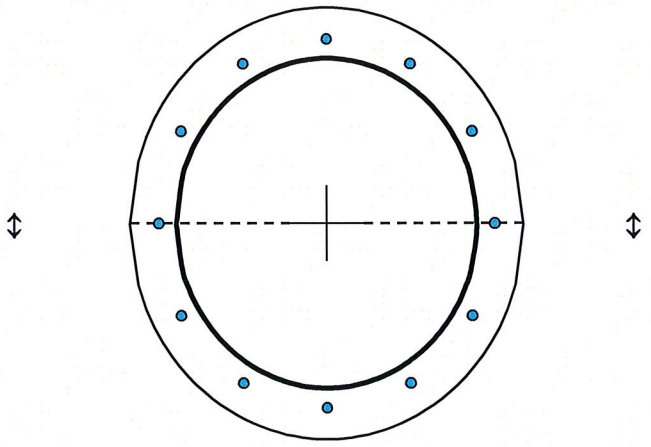


Plate Stress Ratio:
0.39 (Pass)

Bolt Stress Ratio:
1.00 (Acceptable Overstress)

Base/Flange Plate	Plate Type	*Flange @ 55.0 ft*	
	Pole Diameter	35.742	in
	Pole Thickness	0.25	in
	Plate Diameter	48.456	in
	Plate Thickness	2	in
	Plate Fy	60	ksi
	Weld Length	0.3125	in
	ϕ_s Resistance	606.35	k-in
	Applied	212.73	k-in
Stiffeners	#	*0*	

Bolts	#	*10*	
	Bolt Circle	43.456	in
	(R)adial / (S)quare	R	
●	Diameter	1.5	in
	Hole Diameter	1.813	in
	Type	A325	
	Fy	92	ksi
	Fu	120	ksi
	ϕ_s Resistance	126.47	k
	Applied	80.64	k
Reinforcement ●	#	*0*	
Extra Bolts O	#	*0*	

Code Rev. **G**

Moment 744.6 k-ft
Axial 15.7 k

Date 9/19/2012
Engineer JOEJ
Site # 302523
Carrier AT&T Mobility

Required Flange Thickness:
1.18 in OK

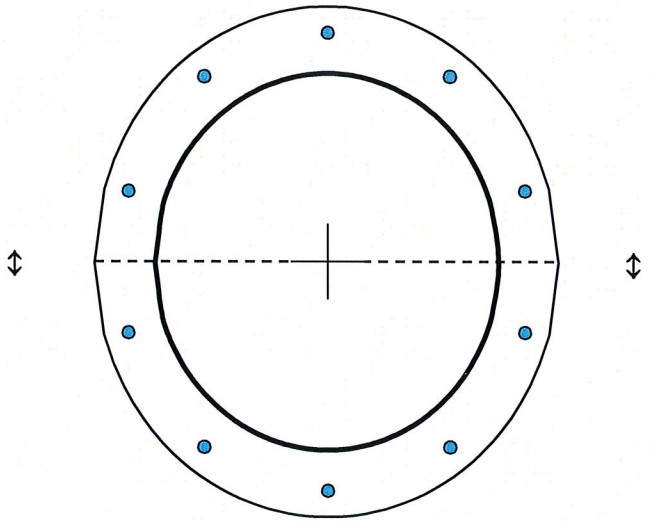


Plate Stress Ratio:
0.35 (Pass)

Bolt Stress Ratio:
0.64 (Pass)

Code Rev.	G	
Moment	276.6 k-ft	
Axial	9.2 k	

Date	9/19/2012	
Engineer	JOEJ	
Site #	302523	
Carrier	AT&T Mobility	

Base/Flange Plate	Plate Type	*Flange @ 110.0 ft*	
	Pole Diameter	21.25	in
	Pole Thickness	0.1875	in
	Plate Diameter	28.5	in
	Plate Thickness	1	in
	Plate Fy	60	ksi
	Weld Length	0.3125	in
	ϕ_s Resistance	201.01	k-in
	Applied	57.99	k-in
Stiffeners	#	*6*	*Show*
	Thickness	0.5	in
	Length	3.5	in
	Height	6	in
	Chamfer	0.5	in
	Offset Angle	0	°
	Fy	50	ksi
Bolts	#	*12*	
	Bolt Circle	25.75	in
	(R)adial / (S)quare	R	
	Diameter	1	in
	Hole Diameter	1.125	in
	Type	A325	
	Fy	92	ksi
	Fu	120	ksi
	ϕ_s Resistance	54.52	k
	Applied	42.17	k
Reinforcement ●	#	*0*	
Extra Bolts O	#	*0*	

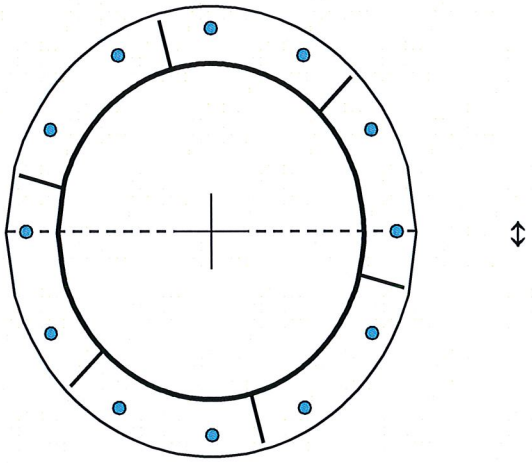
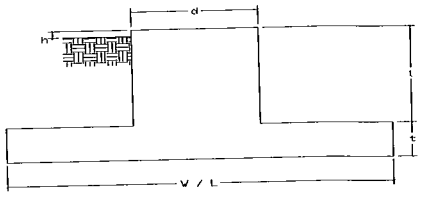


Plate Stress Ratio:
0.29 (Pass)

Bolt Stress Ratio:
0.77 (Pass)

Site Name:	New Milford CT2, CT
Site Number:	302523
Engineering Number:	50496621
Engineer:	J. Johnston
Date:	09/19/12
Tower Type:	MP

Program Last Updated: *6/1/2010*



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

Foundation Mapped:	N
Compression/Leg:	0.0 k
Uplift/Leg:	0.0 k
Total Shear:	33.0 k
Moment:	2902.6 k-ft
Tower + Appurtenance Weight:	81.8 k
Depth to Base of Foundation (l + t - h):	8.00 ft
Diameter of Pier (d):	6.00 ft
Height of Pier above Ground (h):	0.50
Width of Pad (W):	18.00 ft
Length of Pad (L):	18.00 ft
Thickness of Pad (t):	3.00 ft
Tower Leg Center to Center:	0.00 ft
Number of Tower Legs:	1.0 (1 if MP or GT)
Tower Center from Mat Center:	0.00 ft
Depth Below Ground Surface to Water Table:	14.00 ft
Unit Weight of Concrete:	150.0 pcf
Unit Weight of Soil Above Water Table:	110.0 pcf
Unit Weight of Water:	62.4 pcf
Unit Weight of Soil Below Water Table:	55.0 pcf
Friction Angle of Uplift:	20.0 Degrees
Ultimate Coefficient of Shear Friction:	0.50
Ultimate Compressive Bearing Pressure:	6000.0 psf
Ultimate Passive Pressure on Pad Face:	0.0 psf
$\phi_{Soil\ and\ Concrete\ Weight}$:	0.9
ϕ_{Soil}:	0.75

Concrete Strength (f'_c):	3000 psi
Pad Tension Steel Depth:	32.00 in
ϕ_{Shear}:	0.75
$\phi_{Flexure\ /\ Tension}$:	0.90
$\phi_{Compression}$:	0.65
β:	0.85
Bottom Pad Rebar Size #:	5
# of Bottom Pad Rebar:	35
Pad Bottom Steel Area:	10.85 in^2
Pad Steel F_y:	60000 psi
Top Pad Rebar Size #:	5
# of Top Pad Rebar:	35
Pad Top Steel Area:	10.85 in^2
Pier Rebar Size #:	11
Pier Steel Area (Single Bar):	1.56 in^2
# of Pier Rebar:	14
Pier Steel F_y:	60000 psi
Pier Cage Diameter:	64.0 in
Rebar Strain Limit:	0.008
Steel Elastic Modulus:	29000 ksi
Tie Rebar Size #:	4
Tie Steel Area (Single Bar):	0.20 in^2
Tie Spacing:	12 in
Tie Steel F_y:	40000 psi

Overturning Moment Usage

Design OTM:	3182.7 k-ft
OTM Resistance:	3525.3 k-ft
Design OTM / OTM Resistance:	0.90 Result: OK

Soil Bearing Pressure Usage:

Net Bearing Pressure:	6482 psf
Nominal Bearing Pressure:	4500 psf
Net Bearing Pressure/Nominal Bearing Pressure:	1.44 Result: NG
Load Direction Controling Design Bearing Pressure:	Diagonal to Pad Edge

Sliding Factor of Safety

Total Factored Sliding Resistance:	150.0 k
Sliding Design / Sliding Resistance:	0.22 Result: OK

One Way Shear, Flexual Capacity, and Punching Shear

Factored One Way Shear (V_u):	205.1 k	
One Way Shear Capacity (ϕV_c):	445.5 k - ACI11.3.1.1	
$V_u / \phi V_c$:	0.46 Result: OK	
Load Direction Controling Shear Capacity:	Diagonal to Pad Edge	
Lower Steel Pad Factored Moment (M_u):	1238.0 k-ft	
Lower Steel Pad Moment Capacity (ϕM_n):	1611.9 k-ft - ACI10.3	
$M_u / \phi M_n$:	0.77 Result: OK	
Load Direction Controling Flexural Capacity:	Diagonal to Pad Edge	
Upper Steel Pad Factored Moment (M_u):	518.4 k-ft	
Upper Steel Pad Moment Capacity (ϕM_n):	1537.9 k-ft	
$M_u / \phi M_n$:	0.34 Result: OK	
Lower Pad Flexural Reinforcement Ratio:	0.0016 NG - Increase Pad Steel - ACI10.5.1	
Upper Pad Flexural Reinforcement Ratio:	0.0016 OK - Minimum Reinforcement Ratio Met - ACI10.5.1	
Lower Pad Reinforcement Spacing:	6 in - Pad Reinforcing Spacing OK - ACI7.12.2.2 & 10.5.4	
Upper Pad Reinforcement Spacing:	6 in - Pad Reinforcing Spacing OK - ACI7.12.2.2 & 10.5.4	
Factored Punching Shear (V_u):	0.0 k	
Nominal Punching Shear Capacity ($\phi_c V_n$):	1718.0 k - ACI11.12.2.1	
$V_u / \phi V_c$:	0.00 Result: OK	
Factored Moment in Pier (M_u):	3083.8 k-ft	
Pier Moment Capacity (ϕM_n):	3087.5 k-ft	
$M_u / \phi M_n$:	1.00 Result: OK	
Factored Shear in Pier (V_u):	33.0 k	
Pier Shear Capacity (ϕV_n):	334.5 k	
$V_u / \phi V_c$:	0.10 Result: OK	
Pier Shear Reinforcement Ratio:	0.0005 No Ties Necessary for Shear - ACI11.5.6.1	
Factored Tension in Pier (T_u):	0.0 k	
Pier Tension Capacity (ϕT_n):	1179.4 k	
$T_u / \phi T_n$:	0.00 Result: OK	
Factored Compression in Pier (P_u):	0.0 k	
Pier Compression Capacity (ϕP_n):	5369.9 k - ACI10.3.6.2	
$P_u / \phi P_n$:	0.00 Result: OK	
Pier Compression Reinforcement Ratio:	0.005 OK - Reinforcement Ratio Met - ACI10.9.1 & 10.8.4	
$M_u/\phi_B M_n + T_u/\phi_T T_n$:	1.00 Result: OK	

Nominal and Design Moment Capacity and Factored Design Loads