

280 Trumbull Street  
Hartford, CT 06103-3597  
Main (860) 275-8200  
Fax (860) 275-8299  
kbaldwin@rc.com  
Direct (860) 275-8345

Also admitted in Massachusetts

September 5, 2013  
**RECEIVED**  
SEP - 9 2013  
**CONNECTICUT  
SITING COUNCIL**

David Martin  
Siting Analyst  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

Re: **EM-VER-064-121004 – Cellco Partnership d/b/a Verizon Wireless  
305 West Service Road, Hartford, Connecticut**

Dear Mr. Martin:

On November 8, 2012, the Siting Council acknowledged receipt of Cellco's notice of intent to modify its existing Hartford North telecommunications facility at 305 West Service Road in Hartford, Connecticut. The modification involved the replacement of certain antennas and the installation additional antenna cables.

As a condition of the acknowledgement, Cellco was required to provide the Council with a letter stating that the recommendations specified in the structural report were implemented. Attached is a Tower Modification Certification Letter verifying that this condition has been satisfied. All construction associated with these modifications has now been completed.

If you have any questions please do not hesitate to contact me or Rachel Mayo.

Sincerely,



Kenneth C. Baldwin

**Attachment**

**Copy to:**

- Sandy M. Carter
- Brian Ragozzine
- Mark Gauger



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August 26, 2013

**Mr. Mark Gauger**  
Verizon Wireless  
99 East River Drive  
East Hartford, Connecticut 06108

**Re: Existing Telecommunications Facility Tower Modification Certification Letter**

**Project:** Verizon ~Hartford North  
305 West Service Road  
Hartford, CT

**Tower Owner:** American Tower Corp.  
400 Regency Forest Drive  
Cary, NC 27518

**Engineer:** American Tower Corp.  
400 Regency Forest Drive Cary, NC 27518

**Centek Project No.:** 13008.019

Dear Mr. Gauger,

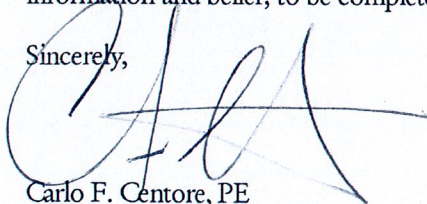
We are providing this "Existing Telecommunications Facility Tower Modification Certification Letter" with regard to the antenna upgrade by Verizon Wireless at the above referenced project.

The following are the basis for substantiating compliance with the FDH Engineering Structural Analysis Report (ATC Project No. 50145623 dated 08/24/2012) :

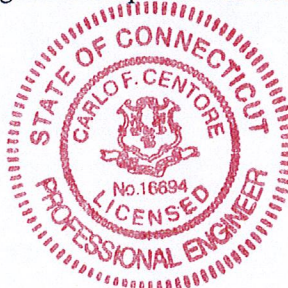
- Review of the ATC Structural Analysis Report dated 08/24/2012.
- Field observations by Centek personnel of the coax installation on 08/12/2013 which determined all coax lines were installed in general compliance with the recommendations of the structural analysis report prepared by ATC on 08/24/2012.

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 referenced above.

Sincerely,



Carlo F. Centore, PE  
Principal ~Structural Engineer



CC: Rachel Mayo, Tim Parks, Jim Smith, Brian Ragozzine



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](mailto:siting.council@ct.gov)  
[www.ct.gov/csc](http://www.ct.gov/csc)

November 8, 2012

Kenneth C. Baldwin, Esq.  
Robinson & Cole LLP  
280 Trumbull Street  
Hartford, CT 06103-3597

RE: **EM-VER-064-121004**- Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 305 West Service Road, Hartford, Connecticut.

Dear Attorney Baldwin:

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:

- The coax lines shall be installed in accordance with the recommendation made in the Structural Analysis Report prepared by American Tower Corporation dated August 24, 2012 and stamped by Raphael Mohamed;
- Following the installation of the proposed equipment, Verizon shall provide documentation certifying that the installation complied with the engineer's recommendation;
- 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 less 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 October 3, 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,



Linda Roberts  
Executive Director

LR/CDM/jbw

c: The Honorable Pedro E. Segarra, Mayor, City of Hartford  
Sandra Kee Borges, Acting Chief Operating Officer, City of Hartford  
American Tower





# 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](mailto:siting.council@ct.gov)

[www.ct.gov/csc](http://www.ct.gov/csc)

October 5, 2012

The Honorable Pedro E. Segarra  
Mayor  
Hartford Municipal Building  
550 Main Street  
Hartford, CT 06103

RE: **EM-VER-064-121004**- Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 305 West Service Road, Hartford, Connecticut.

Dear Mayor Segarra:

The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

If you have any questions or comments regarding this proposal, please call me or inform the Council by October 19, 2012.

Thank you for your cooperation and consideration.

Very truly yours,

Linda Roberts  
Executive Director

LR/laf

Enclosure: Notice of Intent

c: David B. Panagore, Chief Operating Officer, City of Hartford

EM-VER-064-121004

280 Trumbull Street  
Hartford, CT 06103-3597  
Main (860) 275-8200  
Fax (860) 275-8299  
kbaldwin@rc.com  
Direct (860) 275-8345

Also admitted in Massachusetts

October 3, 2012

Linda Roberts  
Executive Director  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051



Re: **Notice of Exempt Modification – Antenna Swap  
305 West Service Road, Hartford, Connecticut**

Dear Ms. Roberts:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains twelve (12) wireless telecommunications antennas at the 115-foot level on an existing 148-foot tower at the above-referenced address. The tower is owned by American Tower Corporation. Cellco’s use of the tower was approved by the Council in 2002. Cellco now intends to replace all of its existing antennas with six (6) model LPA-80063-6CF cellular antennas; two (2) model BXA-171063-8BF PCS antennas; one (1) model BXA-171063-12BF PCS antenna; and three (3) model BXA-70063-6CF LTE antennas, all at the same level on the tower. Cellco also intend to install six (6) additional coax cables attached to the outside of the tower. Attached behind Tab 1 are the specifications for Cellco’s replacement antennas.

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Pedro E. Segarra, Mayor of the City of Hartford. A copy of this letter is also being sent to 305 W Service Road Associates LLC, the owner of the property on which the tower is located.

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



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11896590-v1

Linda Roberts  
October 3, 2012  
Page 2

1. The proposed modifications will not result in an increase in the height of the existing tower. Cellco's replacement antennas will be located at the same 115-foot level on the existing tower.

2. The proposed modifications do not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundaries.

3. The proposed modifications will not increase noise levels at the facility by six decibels or more.

4. The operation of the replacement antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) adopted safety standard. A cumulative General Power Density table for Cellco's modified facility is included behind Tab 2.

Also attached is a Structural Analysis Report confirming that the tower and foundation can support Cellco's proposed modifications. (See Tab 3).

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

Sincerely,



Kenneth C. Baldwin

Enclosures

Copy to:

Pedro E. Segarra, Hartford Mayor  
305 W Service Road Associates LLC  
Sandy Carter





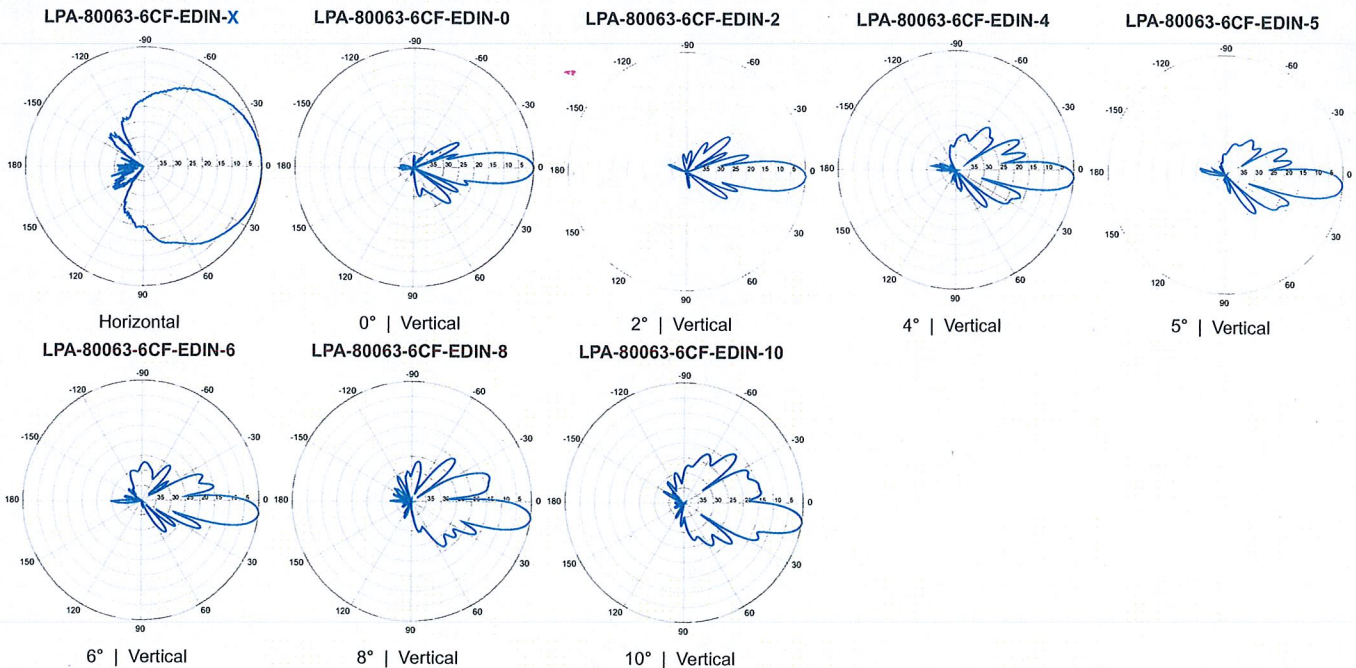
## LPA-80063-6CF-EDIN-X

V-Pol | Log Periodic | 63° | 14.5 dBd

Replace "X" with desired electrical downtilt.

Antenna is also available with NE connector(s). Replace "EDIN" with "NE" in the model number when ordering.

Electrical Characteristics		
Frequency bands	806-960 MHz	
Polarization	Vertical	
Horizontal beamwidth	63°	
Vertical beamwidth	10°	
Gain	14.5 dBd (16.6 dBi)	
Electrical downtilt (X)	0, 2, 4, 5, 6, 8, 10	
Impedance	50Ω	
VSWR	≤1.4:1	
Null fill	5% (-26.02 dB)	
Input power	500 W	
Lightning protection	Direct Ground	
Connector(s)	1 Port / EDIN or NE / Female / Center (Back)	
Mechanical Characteristics		
Dimensions Length x Width x Depth	1805 x 385 x 332 mm      71.1 x 15.2 x 13.1 in	
Depth of antenna with z-bracket	372 mm      14.6 in	
Weight without mounting brackets	12.3 kg      27 lbs	
Survival wind speed	> 201 km/hr      > 125 mph	
Wind area	Front: 0.70 m <sup>2</sup> Side: 0.59 m <sup>2</sup> Front: 7.5 ft <sup>2</sup> Side: 6.3 ft <sup>2</sup>	
Wind load @ 161 km/hr (100 mph)	Front: 885 N    Side: 757 N      Front: 199 lbf    Side: 170 lbf	
Mounting Options		
Part Number	Fits Pipe Diameter	Weight
3-Point Mounting & Downtilt Bracket Kit (0-20°)	21700000      50-102 mm    2.0-4.0 in	11 kg    25 lbs
Lock-Down Brace	If the lock-down brace is used, the maximum diameter of the mounting pipe is 88.9 mm or 3.5 in.	



Quoted performance parameters are provided to offer typical or range values only and may vary as a result of normal manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to product may be made without notice.

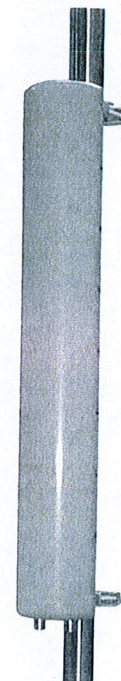


## BXA-171063-8BF-EDIN-X

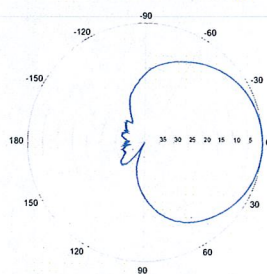
Replace "X" with desired electrical downtilt.

X-Pol | FET Panel | 63° | 17.4 dBi

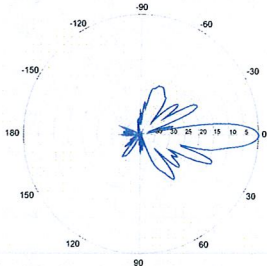
Electrical Characteristics	1710-2170 MHz		
	1710-1880 MHz	1850-1990 MHz	1920-2170 MHz
Frequency bands	1710-1880 MHz	1850-1990 MHz	1920-2170 MHz
Polarization	±45°	±45°	±45°
Horizontal beamwidth	68°	65°	60°
Vertical beamwidth	7°	7°	7°
Gain	14.5 dBd / 16.6 dBi	14.9 dBd / 17.0 dBi	15.3 dBd / 17.4 dBi
Electrical downtilt (X)	0, 2, 4, 8		
Impedance	50Ω		
VSWR	≤1.5:1		
First upper sidelobe	< -17 dB		
Front-to-back isolation	> 30 dB		
In-band isolation	> 28 dB		
IM3 (20W carrier)	< -150 dBc		
Input power	300 W		
Lightning protection	Direct Ground		
Connector(s)	2 Ports / EDIN / Female / Bottom		
Operating temperature	-40° to +60° C / -40° to +140° F		
Mechanical Characteristics			
Dimensions Length x Width x Depth	1232 x 154 x 105 mm		48.5 x 6.1 x 4.1 in
Depth with l-brackets	133 mm		5.2 in
Weight without mounting brackets	4.8 kg		10.5 lbs
Survival wind speed	296 km/hr		184 mph
Wind area	Front: 0.19 m <sup>2</sup> Side: 0.14 m <sup>2</sup>	Front: 2.0 ft <sup>2</sup> Side: 1.5 ft <sup>2</sup>	
Wind load @ 161 km/hr (100 mph)	Front: 281 N Side: 223 N	Front: 63 lbf Side: 50 lbf	
Mounting Options	Part Number	Fits Pipe Diameter	Weight
2-Point Mounting Bracket Kit	26799997	50-102 mm 2.0-4.0 in	2.3 kg 5 lbs
2-Point Mounting & Downtilt Bracket Kit	26799999	50-102 mm 2.0-4.0 in	3.6 kg 8 lbs
Concealment Configurations	For concealment configurations, order BXA-171063-8BF-EDIN-X-FP		



BXA-171063-8BF-EDIN-X

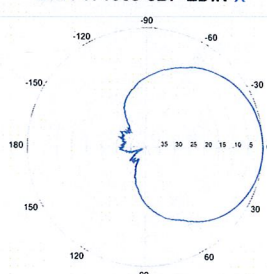


Horizontal | 1710-1880 MHz  
BXA-171063-8BF-EDIN-0

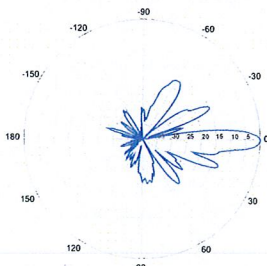


0° | Vertical | 1710-1880 MHz

BXA-171063-8BF-EDIN-X

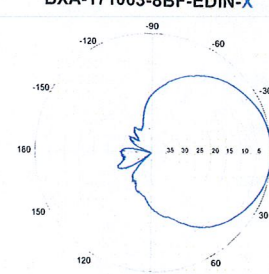


Horizontal | 1850-1990 MHz  
BXA-171063-8BF-EDIN-0

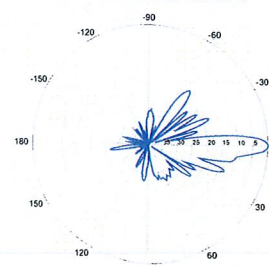


0° | Vertical | 1850-1990 MHz

BXA-171063-8BF-EDIN-X



Horizontal | 1920-2170 MHz  
BXA-171063-8BF-EDIN-0



0° | Vertical | 1920-2170 MHz

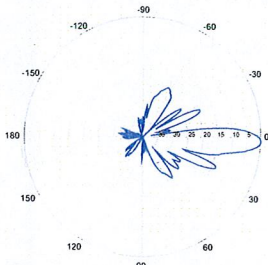
Quoted performance parameters are provided to offer typical or range values only and may vary as a result of normal manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to product may be made without notice.



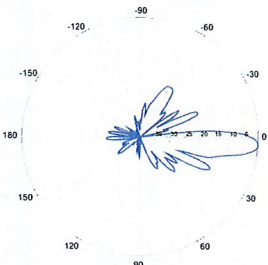
**BXA-171063-8BF-EDIN-X**

X-Pol | FET Panel | 63° | 17.4 dBi

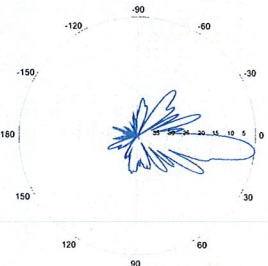
**BXA-171063-8BF-EDIN-2**



2° | Vertical | 1710-1880 MHz  
**BXA-171063-8BF-EDIN-4**

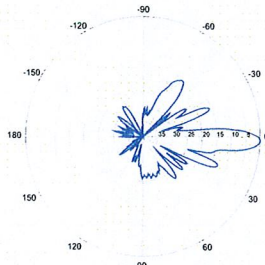


2° | Vertical | 1850-1990 MHz  
**BXA-171063-8BF-EDIN-4**

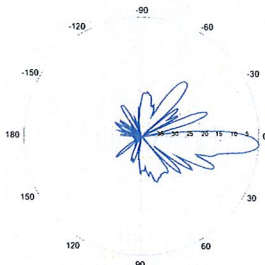


2° | Vertical | 1920-2170 MHz  
**BXA-171063-8BF-EDIN-4**

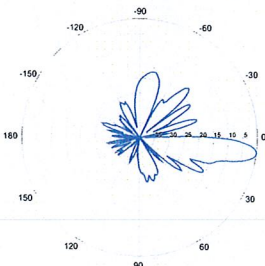
**BXA-171063-8BF-EDIN-2**



4° | Vertical | 1710-1880 MHz  
**BXA-171063-8BF-EDIN-4**

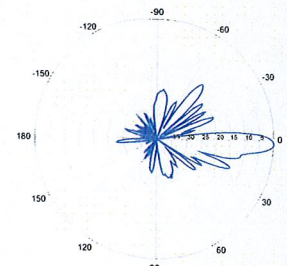


4° | Vertical | 1850-1990 MHz  
**BXA-171063-8BF-EDIN-8**

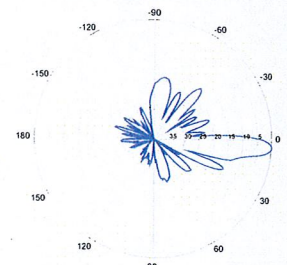


4° | Vertical | 1920-2170 MHz  
**BXA-171063-8BF-EDIN-8**

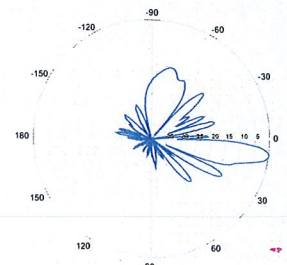
**BXA-171063-8BF-EDIN-2**



4° | Vertical | 1710-1880 MHz  
**BXA-171063-8BF-EDIN-4**



4° | Vertical | 1850-1990 MHz  
**BXA-171063-8BF-EDIN-8**



4° | Vertical | 1920-2170 MHz  
**BXA-171063-8BF-EDIN-8**

8° | Vertical | 1710-1880 MHz

8° | Vertical | 1850-1990 MHz

8° | Vertical | 1920-2170 MHz

Quoted performance parameters are provided to offer typical or range values only and may vary as a result of normal manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to product may be made without notice.



## BXA-171063-12BF-EDIN-X

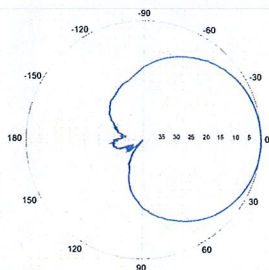
Replace "X" with desired electrical downtilt.

X-Pol | FET Panel | 63° | 19.0 dBi

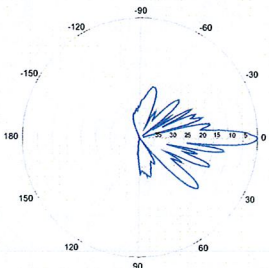
Electrical Characteristics	1710-2170 MHz		
Frequency bands	1710-1880 MHz	1850-1990 MHz	1920-2170 MHz
Polarization	±45°	±45°	±45°
Horizontal beamwidth	68°	65°	60°
Vertical beamwidth	4.5°	4.5°	4.5°
Gain	16.1 dBd / 18.2 dBi	16.5 dBd / 18.6 dBi	16.9 dBd / 19.0 dBi
Electrical downtilt (X)	0, 2, 5		
Impedance	50Ω		
VSWR	≤1.5:1		
First upper sidelobe	< -17 dB		
Front-to-back ratio	> 30 dB		
In-band isolation	> 28 dB		
IM3 (20W carrier)	< -150 dBc		
Input power	300 W		
Lightning protection	Direct Ground		
Connector(s)	2 Ports / EDIN / Female / Bottom		
Operating temperature	-40° to +60° C / -40° to +140° F		
Mechanical Characteristics			
Dimensions Length x Width x Depth	1820 x 154 x 105 mm		71.7 x 6.1 x 4.1 in
Depth with z-brackets	133 mm		5.2 in
Weight without mounting brackets	6.8 kg		15 lbs
Survival wind speed	> 201 km/hr		> 125 mph
Wind area	Front: 0.28 m <sup>2</sup> Side: 0.19 m <sup>2</sup>	Front: 3.1 ft <sup>2</sup> Side: 2.1 ft <sup>2</sup>	
Wind load @ 161 km/hr (100 mph)	Front: 460 N Side: 304 N	Front: 103 lbf Side: 68 lbf	
Mounting Options	Part Number	Fits Pipe Diameter	Weight
2-Point Mounting Bracket Kit	26799997	50-102 mm 2.0-4.0 in	2.3 kg 5 lbs
2-Point Mounting & Downtilt Bracket Kit	26799999	50-102 mm 2.0-4.0 in	3.6 kg 8 lbs
Concealment Configurations	For concealment configurations, order BXA-171063-12BF-EDIN-X-FP		



BXA-171063-12BF-EDIN-X

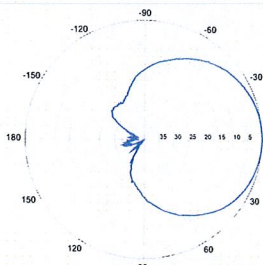


Horizontal | 1710-1880 MHz  
BXA-171063-12BF-EDIN-0

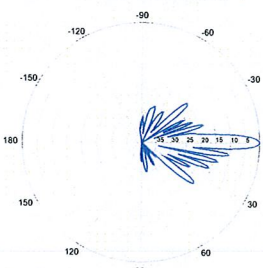


0° | Vertical | 1710-1880 MHz

BXA-171063-12BF-EDIN-X

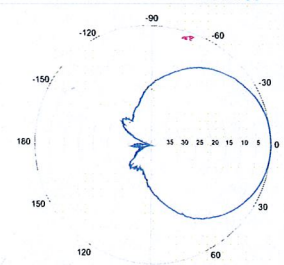


Horizontal | 1850-1990 MHz  
BXA-171063-12BF-EDIN-0

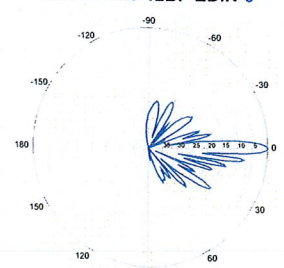


0° | Vertical | 1850-1990 MHz

BXA-171063-12BF-EDIN-X



Horizontal | 1920-2170 MHz  
BXA-171063-12BF-EDIN-0



0° | Vertical | 1920-2170 MHz

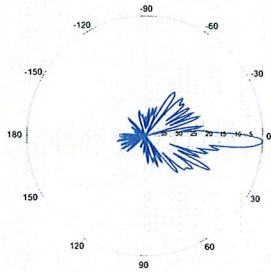
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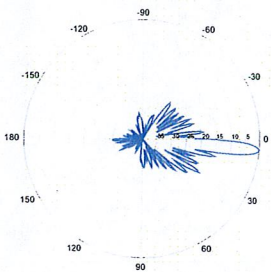
**BXA-171063-12BF-EDIN-X**

X-Pol | FET Panel | 63° | 19.0 dBi

**BXA-171063-12BF-EDIN-2**

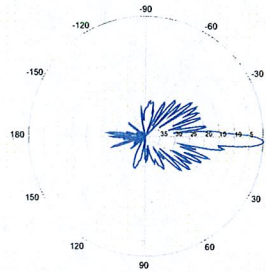


2° | Vertical | 1710-1880 MHz  
**BXA-171063-12BF-EDIN-5**

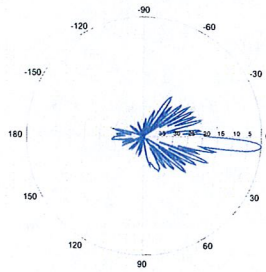


5° | Vertical | 1710-1880 MHz

**BXA-171063-12BF-EDIN-2**

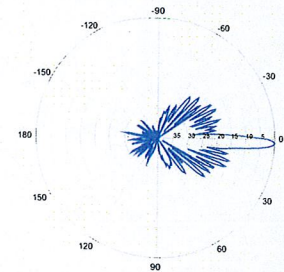


2° | Vertical | 1850-1990 MHz  
**BXA-171063-12BF-EDIN-5**

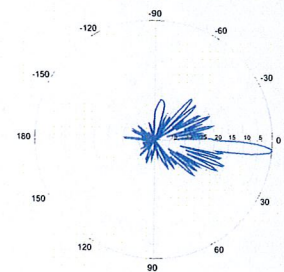


5° | Vertical | 1850-1990 MHz

**BXA-171063-12BF-EDIN-2**



2° | Vertical | 1920-2170 MHz  
**BXA-171063-12BF-EDIN-5**



5° | Vertical | 1920-2170 MHz

Quoted performance parameters are provided to offer typical or range values only and may vary as a result of normal manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to product may be made without notice.



## BXA-70063-6CF-EDIN-X

X-Pol | FET Panel | 63° | 14.5 dBd

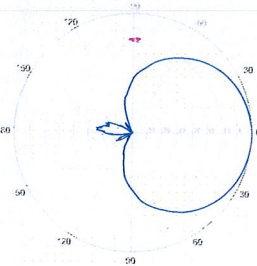
Replace "X" with desired electrical downtilt.

Antenna is also available with NE connector(s). Replace "EDIN" with "NE" in the model number when ordering.



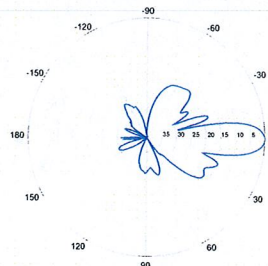
Electrical Characteristics	696-900 MHz		
	696-806 MHz	806-900 MHz	
Frequency bands	696-806 MHz	806-900 MHz	
Polarization	±45°		
Horizontal beamwidth	65°	63°	
Vertical beamwidth	13°	11°	
Gain	14.0 dBd (16.1 dBi)	14.5 dBd (16.6 dBi)	
Electrical downtilt (X)	0, 2, 3, 4, 5, 6, 8, 10		
Impedance	50Ω		
VSWR	≤1.35:1		
Upper sidelobe suppression (0°)	-18.3 dB	-18.2 dB	
Front-to-back ratio (+/-30°)	-33.4 dB	-36.3 dB	
Null fill	5% (-26.02 dB)		
Isolation between ports	< -25 dB		
Input power with EDIN connectors	500 W		
Input power with NE connectors	300 W		
Lightning protection	Direct Ground		
Connector(s)	2 Ports / EDIN or NE / Female / Center (Back)		
Mechanical Characteristics			
Dimensions Length x Width x Depth	1804 x 285 x 132 mm	71.0 x 11.2 x 5.2 in	
Depth with z-brackets	172 mm	6.8 in	
Weight without mounting brackets	7.9 kg	17 lbs	
Survival wind speed	> 201 km/hr	> 125 mph	
Wind area	Front: 0.51 m <sup>2</sup> Side: 0.24 m <sup>2</sup>	Front: 5.5 ft <sup>2</sup> Side: 2.6 ft <sup>2</sup>	
Wind load @ 161 km/hr (100 mph)	Front: 759 N Side: 391 N	Front: 169 lbf Side: 89 lbf	
Mounting Options			
	Part Number	Fits Pipe Diameter	Weight
3-Point Mounting & Downtilt Bracket Kit	36210008	40-115 mm 1.57-4.5 in	6.9 kg 15.2 lbs
Concealment Configurations	For concealment configurations, order BXA-70063-6CF-EDIN-X-FP		

BXA-70063-6CF-EDIN-X



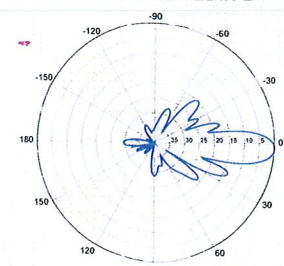
Horizontal | 750 MHz

BXA-70063-6CF-EDIN-0

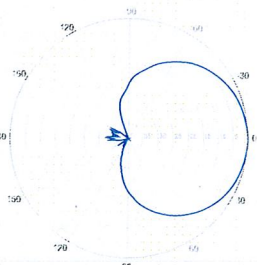


0° | Vertical | 750 MHz

BXA-70063-6CF-EDIN-2



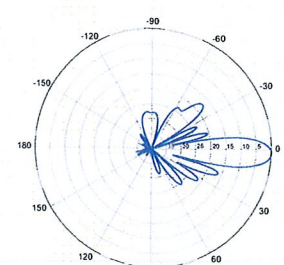
2° | Vertical | 750 MHz



Horizontal | 850 MHz



0° | Vertical | 850 MHz



2° | Vertical | 850 MHz

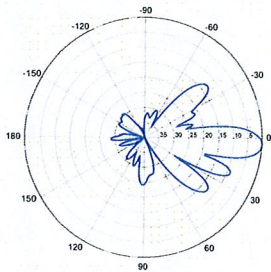
Quoted performance parameters are provided to offer typical or range values only and may vary as a result of normal manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to product may be made without notice.



**BXA-70063-6CF-EDIN-X**

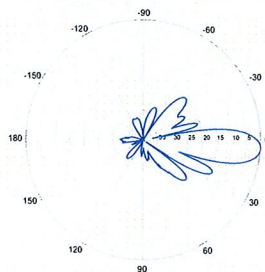
X-Pol | FET Panel | 63° | 14.5 dBd

**BXA-70063-6CF-EDIN-3**



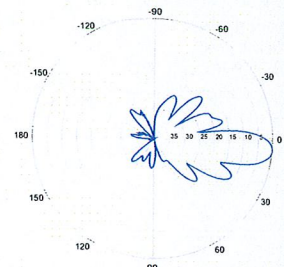
3° | Vertical | 750 MHz

**BXA-70063-6CF-EDIN-4**

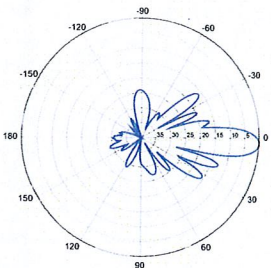


4° | Vertical | 750 MHz

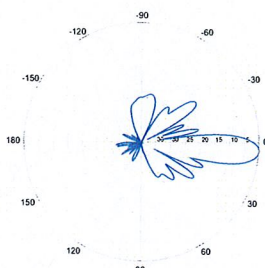
**BXA-70063-6CF-EDIN-5**



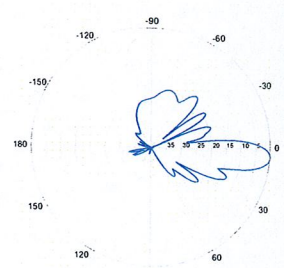
5° | Vertical | 750 MHz



3° | Vertical | 850 MHz

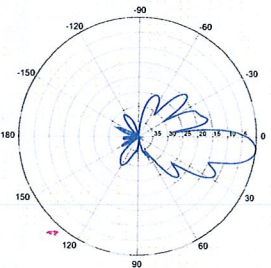


4° | Vertical | 850 MHz



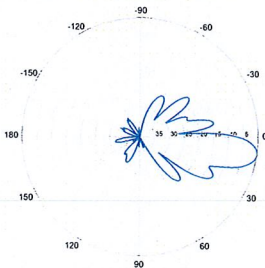
5° | Vertical | 850 MHz

**BXA-70063-6CF-EDIN-6**



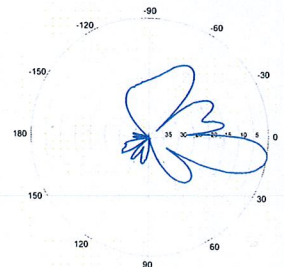
6° | Vertical | 750 MHz

**BXA-70063-6CF-EDIN-8**

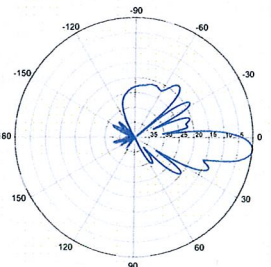


8° | Vertical | 750 MHz

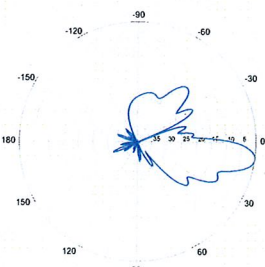
**BXA-70063-6CF-EDIN-10**



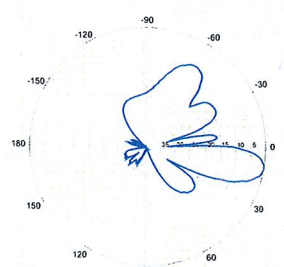
10° | Vertical | 750 MHz



6° | Vertical | 850 MHz



8° | Vertical | 850 MHz



10° | Vertical | 850 MHz

Quoted performance parameters are provided to offer typical or range values only and may vary as a result of normal manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to product may be made without notice.

Site Name: Hartford N		General		Power		Density							
Tower Height: Verizon @ 115Ft.		# OF CHAN.	WATTS ERP	HEIGHT	CALC. POWER DENS	FREQ.	MAX. PERMISS. EXP.	FRACTION MPE	Total				
*Northcoast				125	0.0201	1900	1.0000	2.01%					
*Nextel	9	100	150	0.0144	851	0.5673	2.54%						
*Clearwire	2	153	90	0.0136	2496	1.0000	1.36%						
*Clearwire	1	211	90	0.0094	18 GHz	1.0000	0.94%						
*Sensus (CL&P)	1	200	97	0.0076	940.1125	0.6267	1.22%						
*T-Mobile GSM	8	160	125	0.0295	1945	1.0000	2.95%						
*T-Mobile UMTS	2	670	125	0.0308	2100	1.0000	3.08%						
<b>Verizon PCS</b>	<b>11</b>	<b>259</b>	<b>115</b>	<b>0.0775</b>	<b>1970</b>	<b>1.0000</b>	<b>7.75%</b>						
<b>Verizon Cellular</b>	<b>9</b>	<b>263</b>	<b>115</b>	<b>0.0644</b>	<b>869</b>	<b>0.5793</b>	<b>11.11%</b>						
<b>Verizon AWS</b>	<b>1</b>	<b>628</b>	<b>115</b>	<b>0.0171</b>	<b>2145</b>	<b>1.0000</b>	<b>1.71%</b>						
<b>Verizon 700</b>	<b>1</b>	<b>858</b>	<b>115</b>	<b>0.0233</b>	<b>698</b>	<b>0.4653</b>	<b>5.01%</b>						
									<b>39.66%</b>				
* Source: Siting Council													



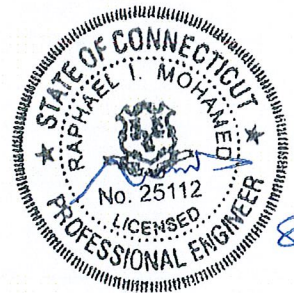
**AMERICAN TOWER®**  
CORPORATION

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## Structural Analysis Report

Structure : 147.9 ft Monopole  
ATC Site Name : West Service Road, CT  
ATC Site Number : 302466  
Engineering Number : 50145623  
Proposed Carrier : Verizon  
Carrier Site Name : Hartford North CT  
Carrier Site Number : 119733  
Site Location : 305 W. Service Rd.  
Hartford, CT 06120-0001  
41.799539,-72.656697  
County : Hartford  
Date : August 24, 2012  
Max Usage : 64%  
Result : Pass

Madhukar Ozarker  
Project Engineer



8/30/12





## Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 147.9 ft monopole to reflect the change in loading by Verizon.

## Supporting Documents

<b>Tower Drawings</b>	FWT drawing #18053, dated September 10, 1998
<b>Foundation Drawing</b>	FWT drawing #18054, dated September 10, 1998
<b>Geotechnical Report</b>	Gibble Norden Champion Report, dated September 8, 1998

## Analysis

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

<b>Basic Wind Speed:</b>	95 mph (3-Second Gust)
<b>Basic Wind Speed w/ Ice:</b>	50 mph (3-Second Gust) w/ 1" radial ice concurrent
<b>Code:</b>	ANSI/TIA-222-G / 2003 IBC w/ 2005 CT Supplement & 2009 CT Amendment
<b>Structure Class:</b>	II
<b>Exposure Category:</b>	C
<b>Topographic Category:</b>	1

## Conclusion

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

If you have any questions or require additional information, please contact me via email at [madhukar.ozarker@americantower.com](mailto:madhukar.ozarker@americantower.com) or call 919-466-5184.





**Existing and Reserved Equipment**

Mount Elev. <sup>1</sup> (ft)	Qty.	Antenna	Mount Type	Coax (in)	Carrier
150.0	9	48" x 12" Panels	Platform w/ Handrails	(12) 1 5/8	Sprint Nextel
	3	72" x 12" Panels			
137.0	9	48" x 4" Panels	Low Profile Platform	(9) 1 5/8	AT&T Mobility
125.0	6	Andrew ETW200VS12UB	T-Arms	(18) 1 5/8 (1) RG6	T-Mobile
	3	RFS APX16DWV-16DWVL-S-E-ACU			
	3	RFS APX16PV-16PVL-E-00			
115.0	-	-	-	(12) 1 5/8	Verizon
100.0	1	Antel BCD-87010	Side Arm	(1) 7/8	SMS
90.0	3	Argus LLPX310R	Collar	(6) 5/16 (2) 1/2 (1) 3" Conduit	Clearwire
	2	DragonWave A-ANT-18G-2-C			
	2	DragonWave Horizon Compact			
	3	NextNet BTS-2500			

**Proposed Equipment**

Elevation <sup>1</sup> (ft)		Qty.	Antenna	Mount Type	Coax (in)	Carrier
Mount	RAD					
115.0	115.0	2	Antel BXA-171063-8BF-EDIN-X	Low Profile Platform	(6) 1 5/8	Verizon
		1	Antel BXA-171063-12BF-EDIN-X			
		3	Antel BXA-70063/6CF			
		6	Antel LPA-80063/6CF			

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

Install proposed coax outside the pole shaft. Stacking coax is not allowed.



**Structure Usages**

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	61%	Pass
Shaft	64%	Pass
Base Plate	53%	Pass

**Foundations**

Reaction Component	Original Design Reactions	Factored Design Reactions*	Analysis Reactions	% of Design
Moment (Kips-Ft)	3,969.0	5,358.2	3141.59	59%
Shear (Kips)	29.4	39.7	30.7	77%

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

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

**Deflection and Sway\***

Antenna Elevation (ft)	Deflection (ft)	Sway (Rotation) (°)
115.0	0.885	-0.818

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





## Standard Conditions

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

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

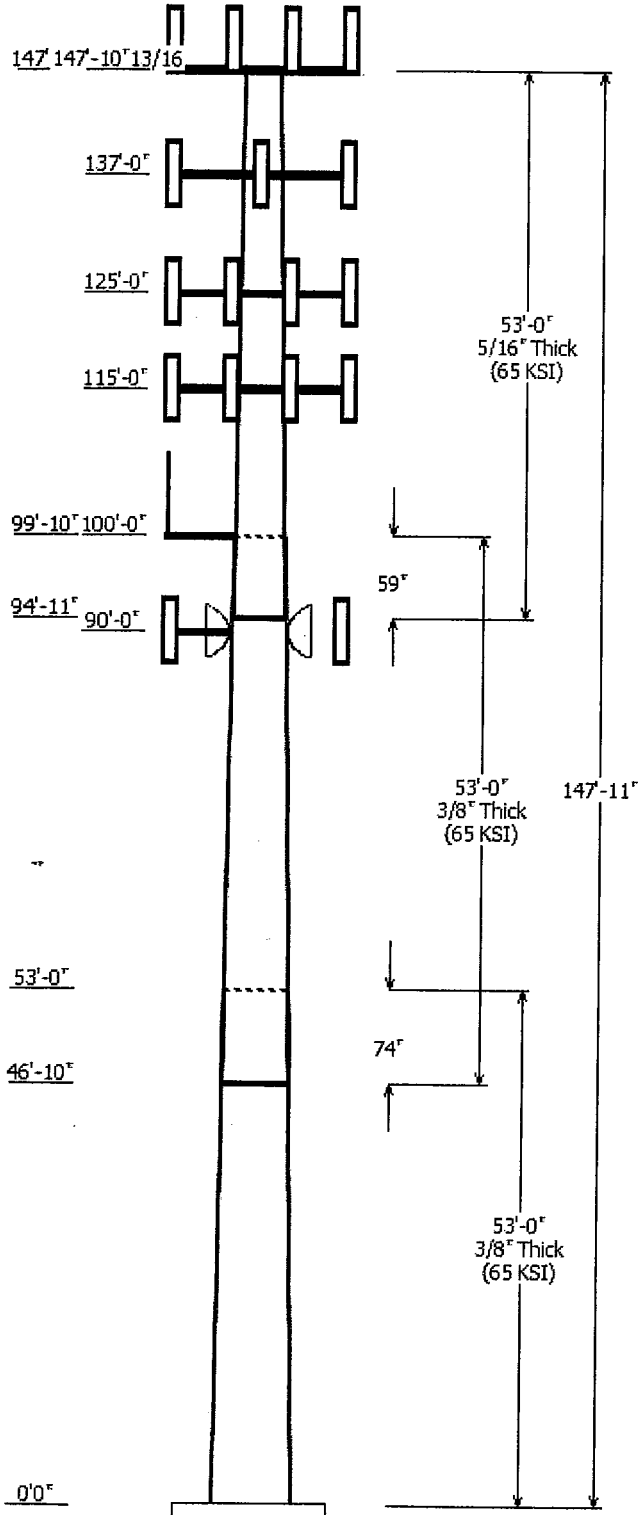
It is the responsibility of the client to ensure that the information provided to ATC Engineering Services and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with 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.



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Job Information	
Pole : 302466	Code: ANSI/TIA-222 Rev G
Description : 148 ft FWT Monopole	
Client : Verizon Wireless	Struct Class : II
Location : West Service Road, CT	
Shape : 18 Sides	Exposure : C
Height : 147.92 (ft)	Topo : 1
Base Elev (ft): 0.00	
Taper: 0.21456(in/ft)	

Sections Properties								
Shaft Section	Length (ft)	Diameter (in)		Thick Joint (in)	Type	Overlap		Steel Grade (ksi)
		Across Top	Flats Bottom			Length (in)	Taper (in/ft)	
1	53.000	45.20	56.58	0.375		0.000	0.214565	65
2	53.000	35.90	47.28	0.375	Slip Joint	74.000	0.214565	65
3	53.000	26.21	37.58	0.313	Slip Joint	59.000	0.214565	65

Discrete Appurtenance				
Attach Elev (ft)	Force Elev (ft)	Qty	Description	
147.900	150.000	3	72" x 12" Panels	
147.900	150.000	9	48" x 12" Panels	
147.900	147.900	1	Flat Platform with Handrails	
137.000	137.000	9	48" x 4" Panels	
137.000	137.000	1	Flat Low Profile Platform	
125.000	125.000	3	RFS APX16DWV-16DWVL-S-E	
125.000	125.000	6	Andrew ETW200VS12UB	
125.000	125.000	3	RFS APX16PV-16PVL-E-00	
125.000	125.000	3	Round T-Arm	
115.000	115.000	2	Antel BXA-171063-8BF-EDIN-X	
115.000	115.000	6	Antel LPA-80063/6CF	
115.000	115.000	1	Antel BXA-171063/12CF	
115.000	115.000	3	Antel BXA-70063/6CF	
115.000	115.000	1	Flat Low Profile Platform	
100.000	100.000	1	Side Arm	
100.000	105.583	1	Antel BCD-87010	
90.000	90.000	1	Collar	
90.000	90.000	3	NextNet BTS-2500	
90.000	90.000	3	Argus LLPX310R	
90.000	90.000	2	DragonWave Horizon Compact	
90.000	90.000	2	DragonWave A-ANT-18G-2-C	

Linear Appurtenance				
Elev (ft)	From	To	Description	Exposed To Wind
5.000	5.000	90.000	1/2" Coax	Yes
5.000	5.000	90.000	3" Conduit	No
5.000	5.000	90.000	5/16" Coax	Yes
5.000	5.000	100.0	7/8" Coax	Yes
5.000	5.000	115.0	1 5/8" Coax	No
5.000	5.000	115.0	1 5/8" Coax	Yes
5.000	5.000	125.0	1 5/8" Coax	No
5.000	5.000	125.0	1 5/8" Coax	Yes
5.000	5.000	125.0	RG6	Yes
5.000	5.000	137.0	1 5/8" Coax	No
5.000	5.000	147.9	1 5/8" Coax	No

Load Cases	
1.2D + 1.6W	95.00 mph with No Ice
1.2D + 1.0DI + 1.0Wi	50.00 mph with 1.00 in Radial Ice

1.0D + 1.0W

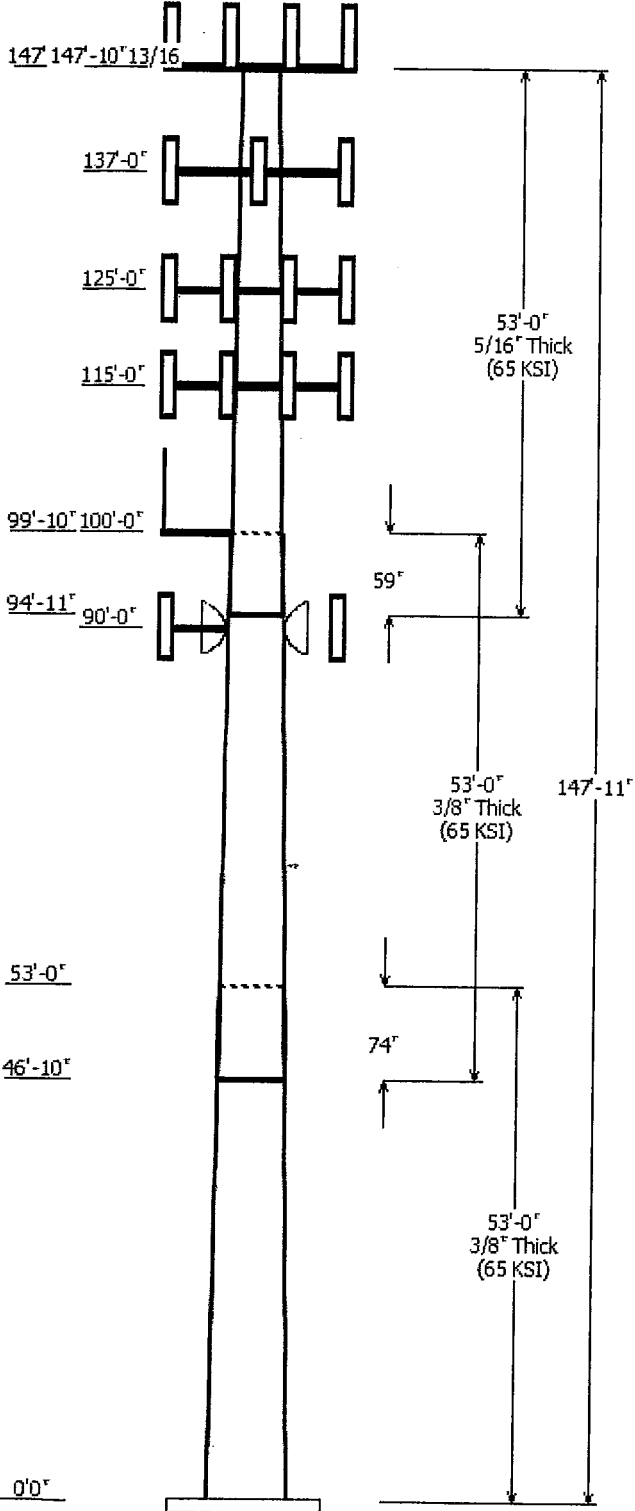
60.00 mph Serviceability

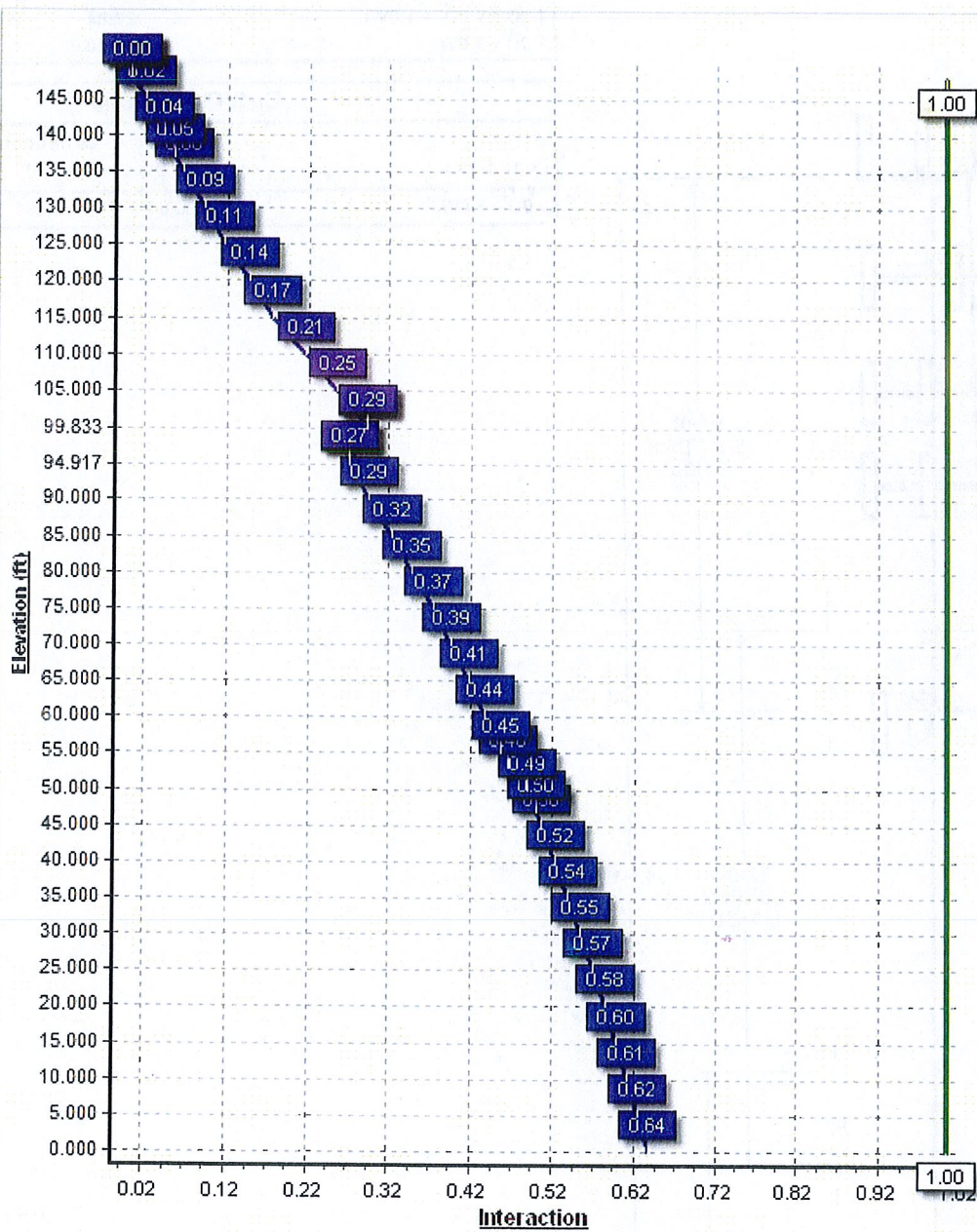
**Reactions**

Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.6W	3141.59	30.69	47.01
1.2D + 1.0Di + 1.0Wi	927.84	9.02	85.23
1.0D + 1.0W	753.50	7.34	39.21

**Dish Deflections**

Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
1.0D + 1.0W	90.00	6.685	0.685

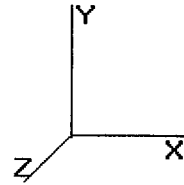




Pole : 302466  
 Location : West Service Road, CT  
 Height : 147.9 (ft)  
 Base Dia : 56.58 (in)  
 Top Dia : 26.21 (in)  
 Shape : 18 Sides  
 Taper : 0.214565 (in/ft)

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

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 Page: 1



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**Shaft Section Properties**

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Slip		Weight (lb)	Bottom				Top				Taper (in/ft)				
				Joint Type	Joint Len (in)		Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)		Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio
1-18	53.000	0.3750	65		0.00	10,844	56.58	0.00	66.90	26698.9	24.84	150.88	45.20	53.00	53.36	13550.7	19.49	120.55	0.214565
2-18	53.000	0.3750	65	Slip	74.00	8,848	47.28	46.83	55.83	15518.8	20.47	126.08	35.90	99.83	42.29	6746.9	15.12	95.76	0.214565
3-18	53.000	0.3125	65	Slip	59.00	5,651	37.58	94.92	36.97	6490.8	19.45	120.28	26.21	147.92	25.69	2178.3	13.03	83.89	0.214565
Shaft Weight						25,343													

**Discrete Appurtenance Properties**

Attach Elev (ft)	Description	Qty	Weight (lb)	No Ice CaAa (sf)	CaAa Factor	Weight (lb)	Ice CaAa (sf)	CaAa Factor	Distance From Face (ft)	Vert Ecc (ft)
147.90	48" x 12" Panels	9	30.00	5.600	0.67	220.42	6.409	0.67	0.000	2.100
147.90	72" x 12" Panels	3	45.00	8.400	0.67	317.28	9.898	0.67	0.000	2.100
147.90	Flat Platform with Handrails	1	2000.00	42.400	1.00	3,896.10	70.381	1.00	0.000	0.000
137.00	48" x 4" Panels	9	20.00	2.090	0.81	104.64	3.228	0.81	0.000	0.000
137.00	Flat Low Profile Platform	1	1500.00	26.100	1.00	2,357.81	51.378	1.00	0.000	0.000
125.00	Andrew ETW200VS12UB	6	11.00	0.470	0.45	39.00	0.817	0.45	0.000	0.000
125.00	RFS APX16DWV-16DWVL-S-	3	39.60	6.700	0.65	222.96	7.519	0.65	0.000	0.000
125.00	RFS APX16PV-16PVL-E-00	3	39.60	6.647	0.68	220.91	7.471	0.68	0.000	0.000
125.00	Round T-Arm	3	250.00	9.700	0.67	524.19	20.516	0.67	0.000	0.000
115.00	Antel BXA-171063-8BF-EDIN-X	2	10.50	2.940	1.00	128.87	4.096	0.87	0.000	0.000
115.00	Antel BXA-171063/12CF	1	15.00	4.790	0.88	185.19	6.405	0.88	0.000	0.000
115.00	Antel BXA-70063/6CF	3	17.00	7.730	0.77	248.60	9.230	0.77	0.000	0.000
115.00	Antel LPA-80063/6CF	6	27.00	10.340	0.94	415.92	11.350	0.94	0.000	0.000
115.00	Flat Low Profile Platform	1	1500.00	26.100	1.00	2,342.93	50.939	1.00	0.000	0.000
100.00	Antel BCD-87010	1	26.50	2.900	1.00	221.38	7.339	1.00	0.000	5.583
100.00	Side Arm	1	150.00	6.300	1.00	243.85	9.453	1.00	0.000	0.000
90.00	Argus LLPX310R	3	28.60	4.820	0.70	174.07	5.451	0.70	0.000	0.000
90.00	Collar	1	40.00	8.500	1.00	82.45	17.521	1.00	0.000	0.000
90.00	DragonWave A-ANT-18G-2-C	2	27.10	4.690	0.90	151.09	6.308	0.90	0.000	0.000
90.00	DragonWave Horizon	2	10.60	0.420	0.45	53.03	0.758	0.45	0.000	0.000
90.00	NextNet BTS-2500	3	35.00	2.120	0.45	114.11	2.573	0.45	0.000	0.000
Totals		64	7370.30			21,117.07			Number of Loadings :	21

**Linear Appurtenance Properties**

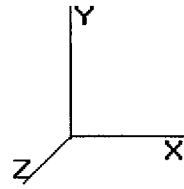
Elev From (ft)	Elev To (ft)	Description	Exposed Width (in)	Exposed To Wind
5.00	147.90	(12) 1 5/8" Coax	0.00	N
5.00	137.00	(9) 1 5/8" Coax	0.00	N
5.00	125.00	(12) 1 5/8" Coax	0.00	N
5.00	125.00	(6) 1 5/8" Coax	3.96	Y
5.00	125.00	(1) RG6	0.00	Y
5.00	115.00	(12) 1 5/8" Coax	0.00	N
5.00	115.00	(6) 1 5/8" Coax	1.98	Y
5.00	100.00	(1) 7/8" Coax	0.00	Y
5.00	90.00	(2) 1/2" Coax	0.00	Y
5.00	90.00	(1) 3" Conduit	3.50	N
5.00	90.00	(6) 5/16" Coax	0.00	Y



**Pole :** 302466  
**Location :** West Service Road, CT  
**Height :** 147.9 (ft)  
**Base Dia :** 56.58 (in)  
**Top Dia :** 26.21 (in)  
**Shape :** 18 Sides  
**Taper :** 0.214565 (in/ft)

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

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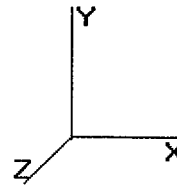
8/30/2012 8:17:22 AM

Page: 2

Pole : 302466  
 Location : West Service Road, CT  
 Height : 147.9 (ft)  
 Base Dia : 56.58 (in)  
 Top Dia : 26.21 (in)  
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Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : C  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)

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

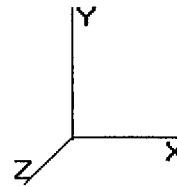
Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in <sup>2</sup> )	Ix (in <sup>4</sup> )	W/t Ratio	D/t Ratio	Fy (ksi)	S (in3)	Weight (lb)
0.00		0.3750	56.580	66.895	26,698.9	24.84	150.88	72.2	929.4	0.0
5.00		0.3750	55.507	65.618	25,199.0	24.34	148.02	72.8	894.2	1,127.3
10.00		0.3750	54.434	64.341	23,756.4	23.83	145.16	73.4	859.6	1,105.6
15.00		0.3750	53.361	63.065	22,369.9	23.33	142.30	74.0	825.7	1,083.8
20.00		0.3750	52.288	61.788	21,038.5	22.82	139.44	74.6	792.5	1,062.1
25.00		0.3750	51.216	60.511	19,760.9	22.32	136.57	75.2	760.0	1,040.4
30.00		0.3750	50.143	59.234	18,536.2	21.81	133.71	75.7	728.1	1,018.7
35.00		0.3750	49.070	57.957	17,363.1	21.31	130.85	76.3	696.9	996.9
40.00		0.3750	47.997	56.680	16,240.6	20.81	127.99	76.9	666.5	975.2
45.00		0.3750	46.924	55.403	15,167.5	20.30	125.13	77.5	636.6	953.5
46.83	Bot - Section 2	0.3750	46.531	54.935	14,786.2	20.12	124.08	77.7	625.9	344.2
50.00		0.3750	45.851	54.126	14,142.8	19.80	122.27	78.1	607.5	1,184.8
53.00	Top - Section 1	0.3750	45.958	54.253	14,242.2	19.85	122.55	78.1	610.4	1,106.4
55.00		0.3750	45.529	53.742	13,843.7	19.64	121.41	78.3	598.9	367.5
60.00		0.3750	44.456	52.465	12,880.2	19.14	118.55	78.9	570.7	903.5
65.00		0.3750	43.383	51.188	11,962.5	18.64	115.69	79.5	543.1	881.8
70.00		0.3750	42.310	49.912	11,089.5	18.13	112.83	80.1	516.2	860.1
75.00		0.3750	41.237	48.635	10,259.9	17.63	109.97	80.7	490.0	838.3
80.00		0.3750	40.165	47.358	9,472.9	17.12	107.11	81.3	464.5	816.6
85.00		0.3750	39.092	46.081	8,727.1	16.62	104.24	81.9	439.7	794.9
90.00		0.3750	38.019	44.804	8,021.5	16.11	101.38	82.4	415.6	773.2
94.92	Bot - Section 3	0.3750	36.964	43.548	7,365.9	15.62	98.57	82.6	392.5	739.1
95.00		0.3750	36.946	43.527	7,355.1	15.61	98.52	82.6	392.1	22.8
99.83	Top - Section 2	0.3125	36.534	35.926	5,955.1	18.85	116.91	79.2	321.1	1,305.1
100.0		0.3125	36.498	35.890	5,937.5	18.83	116.79	79.3	320.4	20.4
105.0		0.3125	35.425	34.826	5,424.9	18.23	113.36	80.0	301.6	601.6
110.0		0.3125	34.353	33.762	4,942.7	17.62	109.93	80.7	283.4	583.5
115.0		0.3125	33.280	32.698	4,490.0	17.01	106.50	81.4	265.7	565.4
120.0		0.3125	32.207	31.634	4,065.7	16.41	103.06	82.1	248.6	547.3
125.0		0.3125	31.134	30.570	3,669.1	15.80	99.63	82.6	232.1	529.2
130.0		0.3125	30.061	29.506	3,299.1	15.20	96.20	82.6	216.2	511.1
135.0		0.3125	28.988	28.442	2,954.9	14.59	92.76	82.6	200.8	493.0
137.0		0.3125	28.559	28.016	2,824.2	14.35	91.39	82.6	194.8	192.1
140.0		0.3125	27.916	27.378	2,635.5	13.99	89.33	82.6	186.0	282.7
145.0		0.3125	26.843	26.314	2,340.0	13.38	85.90	82.6	171.7	456.8
147.9		0.3125	26.221	25.697	2,179.2	13.03	83.91	82.6	163.7	256.6
147.9		0.3125	26.217	25.693	2,178.3	13.03	83.89	82.6	163.6	1.5
										25,342.5



Pole : 302466  
 Location : West Service Road, CT  
 Height : 147.9 (ft)  
 Base Dia : 56.58 (in)  
 Top Dia : 26.21 (in)  
 Shape : 18 Sides  
 Taper : 0.214565 (in/ft)

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

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<b>Load Case:</b> 1.2D + 1.6W	95.00 mph with No Ice	22 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.20		
Wind Load Factor : 1.60		

**Shaft Segment Forces (Factored)**

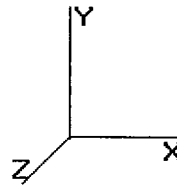
Seg Top Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	18.656	20.52	419.33	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	18.656	20.52	411.38	0.650	0.000	5.00	23.712	15.41	506.1	0.0	1,352.7
10.00		1.00	0.85	18.656	20.52	403.43	0.663	* 0.000	5.00	23.258	15.41	505.9	0.0	1,326.7
15.00		1.00	0.85	18.656	20.52	395.48	0.667	* 0.000	5.00	22.804	15.20	499.2	0.0	1,300.6
20.00		1.00	0.90	19.795	21.77	399.18	0.671	* 0.000	5.00	22.350	15.00	522.4	0.0	1,274.5
25.00		1.00	0.94	20.747	22.82	400.28	0.675	* 0.000	5.00	21.896	14.79	540.0	0.0	1,248.5
30.00		1.00	0.98	21.559	23.71	399.49	0.680	* 0.000	5.00	21.442	14.58	553.3	0.0	1,222.4
35.00		1.00	1.01	22.270	24.49	397.34	0.685	* 0.000	5.00	20.988	14.38	563.5	0.0	1,196.3
40.00		1.00	1.04	22.905	25.19	394.15	0.690	* 0.000	5.00	20.534	14.17	571.2	0.0	1,170.3
45.00		1.00	1.07	23.480	25.82	390.15	0.695	* 0.000	5.00	20.080	13.96	577.0	0.0	1,144.2
46.83	Bot - Section 2	1.00	1.07	23.679	26.04	388.51	0.699	* 0.000	1.83	7.249	5.07	211.2	0.0	413.0
50.00		1.00	1.09	24.007	26.40	385.48	0.702	* 0.000	3.17	12.578	8.83	373.1	0.0	1,421.8
53.00	Top - Section 1	1.00	1.10	24.303	26.73	382.41	0.706	* 0.000	3.00	11.748	8.29	354.6	0.0	1,327.6
55.00		1.00	1.11	24.494	26.94	386.63	0.704	* 0.000	2.00	7.741	5.45	235.1	0.0	441.0
60.00		1.00	1.13	24.946	27.44	380.99	0.709	* 0.000	5.00	19.036	13.49	592.2	0.0	1,084.2
65.00		1.00	1.15	25.370	27.90	374.94	0.715	* 0.000	5.00	18.582	13.28	593.0	0.0	1,058.1
70.00		1.00	1.17	25.769	28.34	368.53	0.721	* 0.000	5.00	18.128	13.07	593.0	0.0	1,032.1
75.00		1.00	1.19	26.146	28.76	361.81	0.728	* 0.000	5.00	17.674	12.87	592.2	0.0	1,006.0
80.00		1.00	1.20	26.504	29.15	354.80	0.735	* 0.000	5.00	17.220	12.66	590.6	0.0	979.9
85.00		1.00	1.22	26.844	29.52	347.53	0.743	* 0.000	5.00	16.766	12.45	588.5	0.0	953.9
90.00	Appertunance(s)	1.00	1.23	27.169	29.88	340.03	0.751	* 0.000	5.00	16.313	12.25	585.7	0.0	927.8
94.92	Bot - Section 3	1.00	1.25	27.475	30.22	332.45	0.759	* 0.000	4.92	15.598	11.84	572.7	0.0	886.9
95.00		1.00	1.25	27.480	30.22	332.32	0.764	* 0.000	0.08	0.265	0.20	9.8	0.0	27.4
99.83	Top - Section 2	1.00	1.26	27.769	30.54	324.69	0.768	* 0.000	4.83	15.154	11.64	568.9	0.0	1,566.1
100.0	Appertunance(s)	1.00	1.26	27.779	30.55	330.07	0.767	* 0.000	0.17	0.515	0.40	19.3	0.0	24.4
105.0		1.00	1.27	28.066	30.87	322.02	0.772	* 0.000	5.00	15.215	11.75	580.4	0.0	721.9
110.0		1.00	1.29	28.342	31.17	313.80	0.782	* 0.000	5.00	14.761	11.54	575.8	0.0	700.2
115.0	Appertunance(s)	1.00	1.30	28.608	31.46	305.43	0.792	* 0.000	5.00	14.307	11.34	570.8	0.0	678.5
120.0		1.00	1.31	28.866	31.75	296.91	0.687	* 0.000	5.00	13.854	9.52	483.7	0.0	656.7
125.0	Appertunance(s)	1.00	1.32	29.115	32.02	288.25	0.695	* 0.000	5.00	13.400	9.31	477.3	0.0	635.0
130.0		1.00	1.33	29.356	32.29	279.47	0.650	0.000	5.00	12.946	8.41	434.8	0.0	613.3
135.0		1.00	1.34	29.591	32.55	270.57	0.650	0.000	5.00	12.492	8.12	422.9	0.0	591.6
137.0	Appertunance(s)	1.00	1.35	29.682	32.65	266.98	0.650	0.000	2.00	4.870	3.17	165.4	0.0	230.5
140.0		1.00	1.35	29.818	32.80	261.56	0.650	0.000	3.00	7.168	4.66	244.5	0.0	339.3
145.0		1.00	1.36	30.039	33.04	252.43	0.650	0.000	5.00	11.584	7.53	398.1	0.0	548.1
147.9	Appertunance(s)	1.00	1.37	30.165	33.18	247.10	0.650	0.000	2.90	6.511	4.23	224.7	0.0	307.9
147.9		1.00	1.37	30.165	33.18	247.07	0.650	0.000	0.02	0.038	0.02	1.3	0.0	1.8
* = Cf Adjusted By Linear Load Ra Effect								Totals:	147.92			15,897.8	0.0	30,411.0

Pole : 302466  
 Location : West Service Road, CT  
 Height : 147.9 (ft)  
 Base Dia : 56.58 (in)  
 Top Dia : 26.21 (in)  
 Shape : 18 Sides  
 Taper : 0.214565 (in/ft)

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

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

95.00 mph with No Ice

22 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

**Discrete Appurtenance Segment Forces (Factored)**

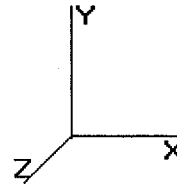
Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa Factor	Ka	Total CaAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
90.00	Argus LLPX310R	3	27.169	29.886	0.56	0.80	8.10	0.000	0.000	387.21	0.00	0.00	102.96
90.00	Collar	1	27.169	29.886	1.00	1.00	8.50	0.000	0.000	406.45	0.00	0.00	48.00
90.00	DragonWave A-ANT-	2	27.169	29.886	0.90	1.00	8.44	0.000	0.000	403.68	0.00	0.00	65.04
90.00	DragonWave Horizon	2	27.169	29.886	0.36	0.80	0.30	0.000	0.000	14.46	0.00	0.00	25.44
90.00	NextNet BTS-2500	3	27.169	29.886	0.36	0.80	2.29	0.000	0.000	109.48	0.00	0.00	126.00
100.0	Antel BCD-87010	1	28.098	30.908	1.00	1.00	2.90	0.000	5.583	143.41	0.00	800.72	31.80
100.0	Side Arm	1	27.779	30.557	1.00	1.00	6.30	0.000	0.000	308.01	0.00	0.00	180.00
115.0	Antel BXA-171063-8BF	2	28.608	31.469	0.80	0.80	4.70	0.000	0.000	236.85	0.00	0.00	25.20
115.0	Antel BXA-171063/12C	1	28.608	31.469	0.70	0.80	3.37	0.000	0.000	169.79	0.00	0.00	18.00
115.0	Antel BXA-70063/6CF	3	28.608	31.469	0.62	0.80	14.29	0.000	0.000	719.26	0.00	0.00	61.20
115.0	Antel LPA-80063/6CF	6	28.608	31.469	0.75	0.80	46.65	0.000	0.000	2,349.06	0.00	0.00	194.40
115.0	Flat Low Profile Pla	1	28.608	31.469	1.00	1.00	26.10	0.000	0.000	1,314.15	0.00	0.00	1,800.00
125.0	Andrew	6	29.115	32.026	0.36	0.80	1.02	0.000	0.000	52.02	0.00	0.00	79.20
125.0	RFS APX16DWV-	3	29.115	32.026	0.52	0.80	10.45	0.000	0.000	535.58	0.00	0.00	142.56
125.0	RFS APX16PV-16PVL-	3	29.115	32.026	0.54	0.80	10.85	0.000	0.000	555.87	0.00	0.00	142.56
125.0	Round T-Arm	3	29.115	32.026	0.50	0.75	14.62	0.000	0.000	749.30	0.00	0.00	900.00
137.0	48" x 4" Panels	9	29.682	32.650	0.65	0.80	12.19	0.000	0.000	636.76	0.00	0.00	216.00
137.0	Flat Low Profile Pla	1	29.682	32.650	1.00	1.00	26.10	0.000	0.000	1,363.48	0.00	0.00	1,800.00
147.9	48" x 12" Panels	9	30.254	33.280	0.50	0.75	25.33	0.000	2.100	1,348.54	0.00	2,831.94	324.00
147.9	72" x 12" Panels	3	30.254	33.280	0.50	0.75	12.66	0.000	2.100	674.27	0.00	1,415.97	162.00
147.9	Flat Platform with H	1	30.165	33.181	1.00	1.00	42.40	0.000	0.000	2,250.99	0.00	0.00	2,400.00
										14,728.65			8,844.36



Pole : 302466  
 Location : West Service Road, CT  
 Height : 147.9 (ft)  
 Base Dia : 56.58 (in)  
 Top Dia : 26.21 (in)  
 Shape : 18 Sides  
 Taper : 0.214565 (in/ft)

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

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

95.00 mph with No Ice

22 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

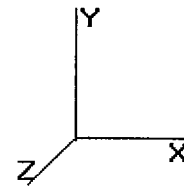
**Linear Appurtenance Segment Forces (Factored)**

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	qz (psf)	Ra	Cf Adjust Factor	FX (lb)	Dead Load (lb)
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	18.656	0.106	1.019	0.00	29.52
10.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	18.656	0.106	1.019	0.00	0.17
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	18.656	0.106	1.019	0.00	29.52
10.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	18.656	0.106	1.019	0.00	1.98
10.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	18.656	0.106	1.019	0.00	1.80
10.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	18.656	0.106	1.019	0.00	1.62
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	18.656	0.109	1.026	0.00	29.52
15.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	18.656	0.109	1.026	0.00	0.17
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	18.656	0.109	1.026	0.00	29.52
15.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	18.656	0.109	1.026	0.00	1.98
15.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	18.656	0.109	1.026	0.00	1.80
15.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	18.656	0.109	1.026	0.00	1.62
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	19.795	0.111	1.032	0.00	29.52
20.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	19.795	0.111	1.032	0.00	0.17
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	19.795	0.111	1.032	0.00	29.52
20.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	19.795	0.111	1.032	0.00	1.98
20.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	19.795	0.111	1.032	0.00	1.80
20.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	19.795	0.111	1.032	0.00	1.62
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.747	0.113	1.039	0.00	29.52
25.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	20.747	0.113	1.039	0.00	0.17
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.747	0.113	1.039	0.00	29.52
25.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.747	0.113	1.039	0.00	1.98
25.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.747	0.113	1.039	0.00	1.80
25.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.747	0.113	1.039	0.00	1.62
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	21.559	0.115	1.046	0.00	29.52
30.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	21.559	0.115	1.046	0.00	0.17
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	21.559	0.115	1.046	0.00	29.52
30.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.559	0.115	1.046	0.00	1.98
30.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.559	0.115	1.046	0.00	1.80
30.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.559	0.115	1.046	0.00	1.62
35.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	22.270	0.118	1.054	0.00	29.52
35.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	22.270	0.118	1.054	0.00	0.17
35.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	22.270	0.118	1.054	0.00	29.52
35.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.270	0.118	1.054	0.00	1.98
35.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.270	0.118	1.054	0.00	1.80
35.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.270	0.118	1.054	0.00	1.62
40.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	22.905	0.121	1.062	0.00	29.52
40.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	22.905	0.121	1.062	0.00	0.17
40.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	22.905	0.121	1.062	0.00	29.52
40.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.905	0.121	1.062	0.00	1.98
40.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.905	0.121	1.062	0.00	1.80
40.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.905	0.121	1.062	0.00	1.62
45.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	23.480	0.123	1.070	0.00	29.52
45.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	23.480	0.123	1.070	0.00	0.17
45.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	23.480	0.123	1.070	0.00	29.52
45.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	23.480	0.123	1.070	0.00	1.98
45.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	23.480	0.123	1.070	0.00	1.80
45.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	23.480	0.123	1.070	0.00	1.62
46.83	(6) 1 5/8" Coax	Yes	1.83	0.000	3.96	0.61	0.00	23.679	0.125	1.076	0.00	10.82
46.83	(1) RG6	Yes	1.83	0.000	0.00	0.00	0.00	23.679	0.125	1.076	0.00	0.06
46.83	(6) 1 5/8" Coax	Yes	1.83	0.000	1.98	0.30	0.00	23.679	0.125	1.076	0.00	10.82

Pole : 302466  
 Location : West Service Road, CT  
 Height : 147.9 (ft)  
 Base Dia : 56.58 (in)  
 Top Dia : 26.21 (in)  
 Shape : 18 Sides  
 Taper : 0.214565 (in/ft)

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

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**Load Case: 1.2D + 1.6W**                      95.00 mph with No Ice                      22 Iterations

Gust Response Factor : 1.10                      Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

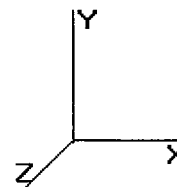
46.83	(1) 7/8" Coax	Yes	1.83	0.000	0.00	0.00	0.00	23.679	0.125	1.076	0.00	0.73
46.83	(2) 1/2" Coax	Yes	1.83	0.000	0.00	0.00	0.00	23.679	0.125	1.076	0.00	0.66
46.83	(6) 5/16" Coax	Yes	1.83	0.000	0.00	0.00	0.00	23.679	0.125	1.076	0.00	0.59
50.00	(6) 1 5/8" Coax	Yes	3.17	0.000	3.96	1.04	0.00	24.007	0.127	1.080	0.00	18.69
50.00	(1) RG6	Yes	3.17	0.000	0.00	0.00	0.00	24.007	0.127	1.080	0.00	0.11
50.00	(6) 1 5/8" Coax	Yes	3.17	0.000	1.98	0.52	0.00	24.007	0.127	1.080	0.00	18.70
50.00	(1) 7/8" Coax	Yes	3.17	0.000	0.00	0.00	0.00	24.007	0.127	1.080	0.00	1.25
50.00	(2) 1/2" Coax	Yes	3.17	0.000	0.00	0.00	0.00	24.007	0.127	1.080	0.00	1.14
50.00	(6) 5/16" Coax	Yes	3.17	0.000	0.00	0.00	0.00	24.007	0.127	1.080	0.00	1.03
53.00	(6) 1 5/8" Coax	Yes	3.00	0.000	3.96	0.99	0.00	24.303	0.128	1.085	0.00	17.71
53.00	(1) RG6	Yes	3.00	0.000	0.00	0.00	0.00	24.303	0.128	1.085	0.00	0.10
53.00	(6) 1 5/8" Coax	Yes	3.00	0.000	1.98	0.50	0.00	24.303	0.128	1.085	0.00	17.71
53.00	(1) 7/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	24.303	0.128	1.085	0.00	1.19
53.00	(2) 1/2" Coax	Yes	3.00	0.000	0.00	0.00	0.00	24.303	0.128	1.085	0.00	1.08
53.00	(6) 5/16" Coax	Yes	3.00	0.000	0.00	0.00	0.00	24.303	0.128	1.085	0.00	0.97
55.00	(6) 1 5/8" Coax	Yes	2.00	0.000	3.96	0.66	0.00	24.494	0.128	1.084	0.00	11.81
55.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	24.494	0.128	1.084	0.00	0.07
55.00	(6) 1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	24.494	0.128	1.084	0.00	11.81
55.00	(1) 7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	24.494	0.128	1.084	0.00	0.79
55.00	(2) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	24.494	0.128	1.084	0.00	0.72
55.00	(6) 5/16" Coax	Yes	2.00	0.000	0.00	0.00	0.00	24.494	0.128	1.084	0.00	0.65
60.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	24.946	0.130	1.090	0.00	29.52
60.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	24.946	0.130	1.090	0.00	0.17
60.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	24.946	0.130	1.090	0.00	29.52
60.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	24.946	0.130	1.090	0.00	1.98
60.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	24.946	0.130	1.090	0.00	1.80
60.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	24.946	0.130	1.090	0.00	1.62
65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	25.370	0.133	1.100	0.00	29.52
65.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	25.370	0.133	1.100	0.00	0.17
65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	25.370	0.133	1.100	0.00	29.52
65.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.370	0.133	1.100	0.00	1.98
65.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.370	0.133	1.100	0.00	1.80
65.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.370	0.133	1.100	0.00	1.62
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	25.769	0.137	1.110	0.00	29.52
70.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	25.769	0.137	1.110	0.00	0.17
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	25.769	0.137	1.110	0.00	29.52
70.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.769	0.137	1.110	0.00	1.98
70.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.769	0.137	1.110	0.00	1.80
70.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.769	0.137	1.110	0.00	1.62
75.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	26.146	0.140	1.120	0.00	29.52
75.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	26.146	0.140	1.120	0.00	0.17
75.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	26.146	0.140	1.120	0.00	29.52
75.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.146	0.140	1.120	0.00	1.98
75.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.146	0.140	1.120	0.00	1.80
75.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.146	0.140	1.120	0.00	1.62
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	26.504	0.144	1.131	0.00	29.52
80.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	26.504	0.144	1.131	0.00	0.17
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	26.504	0.144	1.131	0.00	29.52
80.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.504	0.144	1.131	0.00	1.98
80.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.504	0.144	1.131	0.00	1.80
80.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.504	0.144	1.131	0.00	1.62
85.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	26.844	0.148	1.143	0.00	29.52
85.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	26.844	0.148	1.143	0.00	0.17
85.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	26.844	0.148	1.143	0.00	29.52
85.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.844	0.148	1.143	0.00	1.98
85.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.844	0.148	1.143	0.00	1.80
85.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.844	0.148	1.143	0.00	1.62



Pole : 302466  
 Location : West Service Road, CT  
 Height : 147.9 (ft)  
 Base Dia : 56.58 (in)  
 Top Dia : 26.21 (in)  
 Shape : 18 Sides  
 Taper : 0.214565 (in/ft)

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

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

95.00 mph with No Ice

22 Iterations

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

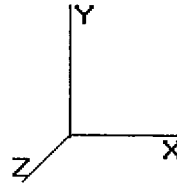
Wind Importance Factor : 1.00

90.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	27.169	0.152	1.155	0.00	29.52
90.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	27.169	0.152	1.155	0.00	0.17
90.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	27.169	0.152	1.155	0.00	29.52
90.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.169	0.152	1.155	0.00	1.98
90.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.169	0.152	1.155	0.00	1.80
90.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.169	0.152	1.155	0.00	1.62
94.92	(6) 1 5/8" Coax	Yes	4.92	0.000	3.96	1.62	0.00	27.475	0.156	1.168	0.00	29.02
94.92	(1) RG6	Yes	4.92	0.000	0.00	0.00	0.00	27.475	0.156	1.168	0.00	0.17
94.92	(6) 1 5/8" Coax	Yes	4.92	0.000	1.98	0.81	0.00	27.475	0.156	1.168	0.00	29.03
94.92	(1) 7/8" Coax	Yes	4.92	0.000	0.00	0.00	0.00	27.475	0.156	1.168	0.00	1.95
95.00	(6) 1 5/8" Coax	Yes	0.08	0.000	3.96	0.03	0.00	27.480	0.158	1.175	0.00	0.49
95.00	(1) RG6	Yes	0.08	0.000	0.00	0.00	0.00	27.480	0.158	1.175	0.00	0.00
95.00	(6) 1 5/8" Coax	Yes	0.08	0.000	1.98	0.01	0.00	27.480	0.158	1.175	0.00	0.49
95.00	(1) 7/8" Coax	Yes	0.08	0.000	0.00	0.00	0.00	27.480	0.158	1.175	0.00	0.03
99.83	(6) 1 5/8" Coax	Yes	4.83	0.000	3.96	1.60	0.00	27.769	0.161	1.182	0.00	28.53
99.83	(1) RG6	Yes	4.83	0.000	0.00	0.00	0.00	27.769	0.161	1.182	0.00	0.17
99.83	(6) 1 5/8" Coax	Yes	4.83	0.000	1.98	0.80	0.00	27.769	0.161	1.182	0.00	28.54
99.83	(1) 7/8" Coax	Yes	4.83	0.000	0.00	0.00	0.00	27.769	0.161	1.182	0.00	1.91
100.0	(6) 1 5/8" Coax	Yes	0.17	0.000	3.96	0.05	0.00	27.779	0.160	1.181	0.00	0.98
100.0	(1) RG6	Yes	0.17	0.000	0.00	0.00	0.00	27.779	0.160	1.181	0.00	0.01
100.0	(6) 1 5/8" Coax	Yes	0.17	0.000	1.98	0.03	0.00	27.779	0.160	1.181	0.00	0.98
100.0	(1) 7/8" Coax	Yes	0.17	0.000	0.00	0.00	0.00	27.779	0.160	1.181	0.00	0.07
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	28.066	0.163	1.188	0.00	29.52
105.0	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	28.066	0.163	1.188	0.00	0.17
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	28.066	0.163	1.188	0.00	29.52
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	28.342	0.168	1.203	0.00	29.52
110.0	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	28.342	0.168	1.203	0.00	0.17
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	28.342	0.168	1.203	0.00	29.52
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	28.608	0.173	1.219	0.00	29.52
115.0	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	28.608	0.173	1.219	0.00	0.17
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	28.608	0.173	1.219	0.00	29.52
120.0	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	28.866	0.119	1.057	0.00	29.52
120.0	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	28.866	0.119	1.057	0.00	0.17
125.0	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	29.115	0.123	1.069	0.00	29.52
125.0	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	29.115	0.123	1.069	0.00	0.17
<b>Totals:</b>											0.00	1,457.77

Pole : 302466  
 Location : West Service Road, CT  
 Height : 147.9 (ft)  
 Base Dia : 56.58 (in)  
 Top Dia : 26.21 (in)  
 Shape : 18 Sides  
 Taper : 0.214565 (in/ft)

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

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<b>Load Case: 1.2D + 1.6W</b>	<b>95.00 mph with No Ice</b>	<b>22 Iterations</b>
<b>Gust Response Factor : 1.10</b>		<b>Wind Importance Factor : 1.00</b>
<b>Dead Load Factor : 1.20</b>		
<b>Wind Load Factor : 1.60</b>		

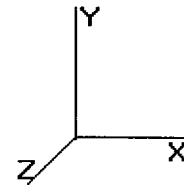
**Applied Segment Forces Summary**

Seg Elev (ft)	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00	0.00	0.00	0.00	0.00
5.00	506.08	1,352.74	0.00	0.00
10.00	505.94	1,658.14	0.00	0.00
15.00	499.16	1,632.07	0.00	0.00
20.00	522.44	1,606.00	0.00	0.00
25.00	540.02	1,579.93	0.00	0.00
30.00	553.32	1,553.86	0.00	0.00
35.00	563.48	1,527.79	0.00	0.00
40.00	571.21	1,501.72	0.00	0.00
45.00	577.02	1,475.65	0.00	0.00
46.83	211.20	534.54	0.00	0.00
50.00	373.06	1,631.69	0.00	0.00
53.00	354.55	1,526.52	0.00	0.00
55.00	235.07	573.57	0.00	0.00
60.00	592.18	1,415.66	0.00	0.00
65.00	593.03	1,389.59	0.00	0.00
70.00	592.98	1,363.53	0.00	0.00
75.00	592.16	1,337.46	0.00	0.00
80.00	590.62	1,311.39	0.00	0.00
85.00	588.45	1,285.32	0.00	0.00
90.00	1,906.99	1,626.69	0.00	0.00
94.92	572.68	1,164.75	0.00	0.00
95.00	9.79	32.10	0.00	0.00
99.83	568.92	1,839.21	0.00	0.00
100.0	470.75	245.66	0.00	800.72
105.0	580.36	1,002.48	0.00	0.00
110.0	575.77	980.76	0.00	0.00
115.0	5,359.89	3,057.83	0.00	0.00
120.0	483.70	848.76	0.00	0.00
125.0	2,370.06	2,091.35	0.00	0.00
130.0	434.76	716.58	0.00	0.00
135.0	422.87	694.86	0.00	0.00
137.0	2,165.60	2,287.86	0.00	0.00
140.0	244.52	374.71	0.00	0.00
145.0	398.08	607.13	0.00	0.00
147.9	4,498.48	3,228.18	0.00	4,247.91
147.9	1.30	1.79	0.00	0.00
<b>Totals:</b>	<b>30,626.49</b>	<b>47,057.85</b>	<b>0.00</b>	<b>5,048.63</b>

Pole : 302466  
 Location : West Service Road, CT  
 Height : 147.9 (ft)  
 Base Dia : 56.58 (in)  
 Top Dia : 26.21 (in)  
 Shape : 18 Sides  
 Taper : 0.214565 (in/ft)

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

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**Load Case: 1.2D + 1.6W**      95.00 mph with No Ice      22 Iterations

Gust Response Factor : 1.10      Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

**Calculated Forces**

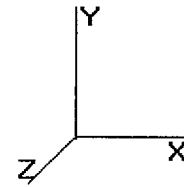
Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-47.01	-30.69	0.00	-3,141.59	0.00	3,141.59	4,345.86	2,172.93	10,048.4	5,031.69	0.00	0.00	0.635
5.00	-45.57	-30.32	0.00	-2,988.12	0.00	2,988.12	4,297.95	2,148.97	9,746.71	4,880.60	0.09	-0.16	0.623
10.00	-43.83	-29.93	0.00	-2,836.54	0.00	2,836.54	4,248.67	2,124.33	9,446.21	4,730.12	0.35	-0.33	0.610
15.00	-42.12	-29.54	0.00	-2,686.90	0.00	2,686.90	4,198.03	2,099.01	9,147.11	4,580.35	0.78	-0.49	0.597
20.00	-40.43	-29.12	0.00	-2,539.20	0.00	2,539.20	4,146.02	2,073.01	8,849.60	4,431.38	1.39	-0.66	0.583
25.00	-38.78	-28.67	0.00	-2,393.60	0.00	2,393.60	4,092.65	2,046.33	8,553.86	4,283.29	2.17	-0.83	0.568
30.00	-37.15	-28.20	0.00	-2,250.24	0.00	2,250.24	4,037.92	2,018.96	8,260.07	4,136.18	3.12	-0.99	0.553
35.00	-35.55	-27.71	0.00	-2,109.23	0.00	2,109.23	3,981.82	1,990.91	7,968.42	3,990.13	4.25	-1.16	0.538
40.00	-33.98	-27.21	0.00	-1,970.66	0.00	1,970.66	3,924.36	1,962.18	7,679.09	3,845.25	5.56	-1.33	0.521
45.00	-32.47	-26.66	0.00	-1,834.61	0.00	1,834.61	3,865.54	1,932.77	7,392.25	3,701.62	7.04	-1.49	0.504
46.83	-31.90	-26.48	0.00	-1,785.73	0.00	1,785.73	3,843.63	1,921.82	7,287.74	3,649.29	7.62	-1.56	0.498
50.00	-30.24	-26.12	0.00	-1,701.87	0.00	1,701.87	3,805.35	1,902.68	7,108.10	3,559.33	8.69	-1.66	0.486
53.00	-28.68	-25.76	0.00	-1,623.52	0.00	1,623.52	3,811.38	1,905.69	7,136.13	3,573.37	9.77	-1.76	0.462
55.00	-28.07	-25.56	0.00	-1,572.00	0.00	1,572.00	3,786.98	1,893.49	7,023.14	3,516.79	10.52	-1.83	0.455
60.00	-26.60	-25.00	0.00	-1,444.19	0.00	1,444.19	3,725.01	1,862.51	6,742.74	3,376.38	12.52	-1.99	0.435
65.00	-25.17	-24.42	0.00	-1,319.21	0.00	1,319.21	3,661.69	1,830.84	6,465.44	3,237.53	14.69	-2.14	0.415
70.00	-23.77	-23.84	0.00	-1,197.12	0.00	1,197.12	3,597.00	1,798.50	6,191.43	3,100.31	17.01	-2.29	0.393
75.00	-22.40	-23.24	0.00	-1,077.95	0.00	1,077.95	3,530.95	1,765.47	5,920.87	2,964.83	19.48	-2.43	0.370
80.00	-21.06	-22.65	0.00	-961.73	0.00	961.73	3,463.53	1,731.77	5,653.95	2,831.18	22.10	-2.57	0.346
85.00	-19.76	-22.05	0.00	-848.49	0.00	848.49	3,394.75	1,697.38	5,390.86	2,699.44	24.87	-2.71	0.320
90.00	-18.18	-20.10	0.00	-738.25	0.00	738.25	3,324.61	1,662.30	5,131.78	2,569.70	27.78	-2.84	0.293
94.92	-17.02	-19.49	0.00	-639.42	0.00	639.42	3,235.43	1,617.71	4,852.78	2,430.00	30.77	-2.96	0.269
95.00	-16.97	-19.50	0.00	-637.79	0.00	637.79	3,233.85	1,616.92	4,848.02	2,427.61	30.82	-2.96	0.268
99.83	-15.15	-18.85	0.00	-543.56	0.00	543.56	2,561.72	1,280.86	3,809.83	1,907.74	33.88	-3.07	0.291
100.00	-14.91	-18.38	0.00	-539.62	0.00	539.62	2,559.96	1,279.98	3,803.41	1,904.53	33.99	-3.08	0.289
105.00	-13.90	-17.77	0.00	-447.73	0.00	447.73	2,506.38	1,253.19	3,612.46	1,808.91	37.27	-3.19	0.253
110.00	-12.93	-17.16	0.00	-358.88	0.00	358.88	2,451.43	1,225.72	3,424.36	1,714.72	40.68	-3.30	0.215
115.00	-10.17	-11.65	0.00	-273.06	0.00	273.06	2,395.12	1,197.56	3,239.30	1,622.06	44.18	-3.39	0.173
120.00	-9.34	-11.13	0.00	-214.82	0.00	214.82	2,337.45	1,168.73	3,057.46	1,531.00	47.77	-3.47	0.144
125.00	-7.39	-8.64	0.00	-159.19	0.00	159.19	2,271.20	1,135.60	2,869.91	1,437.09	51.44	-3.53	0.114
130.00	-6.69	-8.17	0.00	-115.98	0.00	115.98	2,192.15	1,096.07	2,672.63	1,338.30	55.17	-3.59	0.090
135.00	-6.02	-7.71	0.00	-75.14	0.00	75.14	2,113.09	1,056.55	2,482.37	1,243.03	58.95	-3.63	0.063
137.00	-3.88	-5.40	0.00	-59.73	0.00	59.73	2,081.47	1,040.73	2,408.24	1,205.91	60.47	-3.64	0.051
140.00	-3.52	-5.13	0.00	-43.54	0.00	43.54	2,034.04	1,017.02	2,299.14	1,151.28	62.76	-3.66	0.040
145.00	-2.93	-4.70	0.00	-17.87	0.00	17.87	1,954.98	977.49	2,122.94	1,063.05	66.60	-3.67	0.018
147.90	0.00	0.00	0.00	0.00	0.00	0.00	1,909.13	954.57	2,023.96	1,013.48	68.83	-3.68	0.000
147.92	0.00	0.00	0.00	0.00	0.00	0.00	1,908.86	954.43	2,023.38	1,013.20	68.84	-3.68	0.000



Pole : 302466  
 Location : West Service Road, CT  
 Height : 147.9 (ft)  
 Base Dia : 56.58 (in)  
 Top Dia : 26.21 (in)  
 Shape : 18 Sides  
 Taper : 0.214565 (in/ft)

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

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<b>Load Case:</b> 1.2D + 1.0Di + 1.0Wi	50.00 mph with 1.00 in Radial Ice	22 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	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	0.85	5.168	5.685	0.000	1.200	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	5.168	5.685	0.000	1.200	1.656	5.00	25.092	30.11	171.2	593.0	1,945.7
10.00		1.00	0.85	5.168	5.685	0.000	1.200	* 1.775	5.00	24.737	29.68	168.7	624.9	1,951.6
15.00		1.00	0.85	5.168	5.685	0.000	1.200	* 1.848	5.00	24.344	29.21	166.1	639.2	1,939.8
20.00		1.00	0.90	5.483	6.032	0.000	1.200	* 1.902	5.00	23.935	28.72	173.2	645.7	1,920.2
25.00		1.00	0.94	5.747	6.322	0.000	1.200	* 1.945	5.00	23.517	28.22	178.4	647.7	1,896.1
30.00		1.00	0.98	5.972	6.569	0.000	1.200	* 1.981	5.00	23.093	27.71	182.0	646.7	1,869.1
35.00		1.00	1.01	6.169	6.786	0.000	1.200	* 2.012	5.00	22.665	27.20	184.6	643.6	1,839.9
40.00		1.00	1.04	6.345	6.979	0.000	1.200	* 2.039	5.00	22.233	26.68	186.2	638.9	1,809.2
45.00		1.00	1.07	6.504	7.155	0.000	1.200	* 2.063	5.00	21.800	26.16	187.2	632.9	1,777.1
46.83	Bot - Section 2	1.00	1.07	6.559	7.215	0.000	1.200	* 2.071	1.83	7.882	9.46	68.2	231.2	644.2
50.00		1.00	1.09	6.650	7.315	0.000	1.200	* 2.085	3.17	13.679	16.41	120.1	402.6	1,824.4
53.00	Top - Section 1	1.00	1.10	6.732	7.405	0.000	1.200	* 2.097	3.00	12.797	15.36	113.7	378.7	1,706.3
55.00		1.00	1.11	6.785	7.463	0.000	1.200	* 2.105	2.00	8.443	10.13	75.6	251.1	692.1
60.00		1.00	1.13	6.910	7.601	0.000	1.200	* 2.123	5.00	20.805	24.97	189.8	619.3	1,703.5
65.00		1.00	1.15	7.028	7.731	0.000	1.200	* 2.140	5.00	20.366	24.44	188.9	610.1	1,668.3
70.00		1.00	1.17	7.138	7.852	0.000	1.200	* 2.156	5.00	19.925	23.91	187.7	600.4	1,632.5
75.00		1.00	1.19	7.243	7.967	0.000	1.200	* 2.171	5.00	19.484	23.38	186.3	590.2	1,596.1
80.00		1.00	1.20	7.342	8.076	0.000	1.200	* 2.185	5.00	19.041	22.85	184.5	579.5	1,559.4
85.00		1.00	1.22	7.436	8.180	0.000	1.200	* 2.198	5.00	18.598	22.32	182.6	568.4	1,522.2
90.00	Appertunance(s)	1.00	1.23	7.526	8.279	0.000	1.200	* 2.211	5.00	18.155	21.79	180.4	557.0	1,484.7
94.92	Bot - Section 3	1.00	1.25	7.611	8.372	0.000	1.200	* 2.223	4.92	17.420	20.90	175.0	536.3	1,423.2
95.00		1.00	1.25	7.612	8.374	0.000	1.200	* 2.223	0.08	0.296	0.36	3.0	9.2	36.6
99.83	Top - Section 2	1.00	1.26	7.692	8.461	0.000	1.200	* 2.234	4.83	16.954	20.34	172.1	524.2	2,090.3
100.0	Appertunance(s)	1.00	1.26	7.695	8.464	0.000	1.200	* 2.234	0.17	0.577	0.69	5.9	18.1	42.5
105.0		1.00	1.27	7.774	8.552	0.000	1.200	* 2.245	5.00	17.086	20.50	175.3	529.6	1,251.5
110.0		1.00	1.29	7.851	8.636	0.000	1.200	* 2.256	5.00	16.641	19.97	172.5	517.0	1,217.2
115.0	Appertunance(s)	1.00	1.30	7.925	8.717	0.000	1.200	* 2.266	5.00	16.196	19.43	169.4	504.3	1,182.7
120.0		1.00	1.31	7.996	8.796	0.000	1.200	* 2.276	5.00	15.750	18.90	166.2	491.2	1,148.0
125.0	Appertunance(s)	1.00	1.32	8.065	8.872	0.000	1.200	* 2.285	5.00	15.304	18.36	162.9	478.0	1,113.0
130.0		1.00	1.33	8.132	8.945	0.000	1.200	* 2.294	5.00	14.857	17.83	159.5	464.6	1,077.9
135.0		1.00	1.34	8.197	9.016	0.000	1.200	* 2.303	5.00	14.411	17.29	155.9	451.0	1,042.6
137.0	Appertunance(s)	1.00	1.35	8.222	9.044	0.000	1.200	* 2.306	2.00	5.638	6.77	61.2	178.2	408.7
140.0		1.00	1.35	8.260	9.086	0.000	1.200	* 2.311	3.00	8.324	9.99	90.8	262.3	601.6
145.0		1.00	1.36	8.321	9.153	0.000	1.200	* 2.319	5.00	13.517	16.22	148.5	423.3	971.4
147.9	Appertunance(s)	1.00	1.37	8.356	9.191	0.000	1.200	* 2.324	2.90	7.634	9.16	84.2	240.8	548.7
147.9		1.00	1.37	8.356	9.192	0.000	1.200	* 2.324	0.02	0.044	0.05	0.5	1.4	3.2
								<b>Totals:</b>		147.92		5,178.3	16,730.5	47,141.6

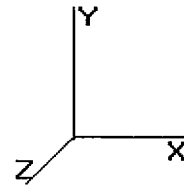
\* = Cf Adjusted By Linear Load Ra Effect

Pole : 302466  
 Location : West Service Road, CT  
 Height : 147.9 (ft)  
 Base Dia : 56.58 (in)  
 Top Dia : 26.21 (in)  
 Shape : 18 Sides  
 Taper : 0.214565 (in/ft)

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

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<b>Load Case:</b> 1.2D + 1.0Di + 1.0Wi	50.00 mph with 1.00 in Radial Ice	22 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		

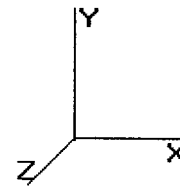
**Discrete Appurtenance Segment Forces (Factored)**

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)
90.00	Argus LLPX310R	3	7.526	8.279	0.56	0.80	9.16	0.000	0.000	75.82	0.00	0.00	539.37
90.00	Collar	1	7.526	8.279	1.00	1.00	17.52	0.000	0.000	145.05	0.00	0.00	80.45
90.00	DragonWave A-ANT-	2	7.526	8.279	0.90	1.00	11.35	0.000	0.000	94.00	0.00	0.00	256.93
90.00	DragonWave Horizon	2	7.526	8.279	0.36	0.80	0.55	0.000	0.000	4.52	0.00	0.00	110.29
90.00	NextNet BTS-2500	3	7.526	8.279	0.36	0.80	2.78	0.000	0.000	23.00	0.00	0.00	363.32
100.0	Antel BCD-87010	1	7.783	8.562	1.00	1.00	7.34	0.000	5.583	62.84	0.00	350.85	226.68
100.0	Side Arm	1	7.695	8.464	1.00	1.00	9.45	0.000	0.000	80.02	0.00	0.00	193.85
115.0	Antel BXA-171063-8BF	2	7.925	8.717	0.70	0.80	5.70	0.000	0.000	49.71	0.00	0.00	261.94
115.0	Antel BXA-171063/12C	1	7.925	8.717	0.70	0.80	4.51	0.000	0.000	39.31	0.00	0.00	188.19
115.0	Antel BXA-70063/6CF	3	7.925	8.717	0.62	0.80	17.06	0.000	0.000	148.69	0.00	0.00	755.99
115.0	Antel LPA-80063/6CF	6	7.925	8.717	0.75	0.80	51.21	0.000	0.000	446.40	0.00	0.00	2,527.90
115.0	Flat Low Profile Pla	1	7.925	8.717	1.00	1.00	50.94	0.000	0.000	444.05	0.00	0.00	2,442.93
125.0	Andrew	6	8.065	8.872	0.36	0.80	1.76	0.000	0.000	15.65	0.00	0.00	247.21
125.0	RFS APX16DWV-	3	8.065	8.872	0.52	0.80	11.73	0.000	0.000	104.06	0.00	0.00	692.65
125.0	RFS APX16PV-16PVL-	3	8.065	8.872	0.54	0.80	12.19	0.000	0.000	108.17	0.00	0.00	686.49
125.0	Round T-Arm	3	8.065	8.872	0.50	0.75	30.93	0.000	0.000	274.37	0.00	0.00	1,530.57
137.0	48" x 4" Panels	9	8.222	9.044	0.65	0.80	18.83	0.000	0.000	170.29	0.00	0.00	977.77
137.0	Flat Low Profile Pla	1	8.222	9.044	1.00	1.00	51.38	0.000	0.000	464.68	0.00	0.00	2,457.81
147.9	48" x 12" Panels	9	8.381	9.219	0.50	0.75	28.98	0.000	2.100	267.20	0.00	561.12	2,037.76
147.9	72" x 12" Panels	3	8.381	9.219	0.50	0.75	14.92	0.000	2.100	137.55	0.00	288.85	978.84
147.9	Flat Platform with H	1	8.356	9.191	1.00	1.00	70.38	0.000	0.000	646.90	0.00	0.00	3,846.10
										<b>3,802.28</b>			<b>21,403.05</b>

Pole : 302466  
 Location : West Service Road, CT  
 Height : 147.9 (ft)  
 Base Dia : 56.58 (in)  
 Top Dia : 26.21 (in)  
 Shape : 18 Sides  
 Taper : 0.214565 (in/ft)

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

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**Load Case:** 1.2D + 1.0Di + 1.0Wi      50.00 mph with 1.00 in Radial Ice      22 Iterations

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

Dead Load Factor : 1.20      Ice Importance Factor : 1.00

Wind Load Factor : 1.00

**Linear Appurtenance Segment Forces (Factored)**

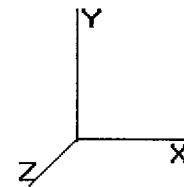
Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	qz (psf)	Ra	Cf Adjust Factor	FX (lb)	Dead Load (lb)
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	3.13	0.00	5.168	0.106	1.019	0.00	140.58
10.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	5.168	0.106	1.019	0.00	21.35
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.30	0.00	5.168	0.106	1.019	0.00	140.58
10.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.168	0.106	1.019	0.00	29.24
10.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.168	0.106	1.019	0.00	30.07
10.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.168	0.106	1.019	0.00	34.15
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	3.19	0.00	5.168	0.109	1.026	0.00	145.60
15.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	5.168	0.109	1.026	0.00	23.05
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.37	0.00	5.168	0.109	1.026	0.00	145.60
15.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.168	0.109	1.026	0.00	31.18
15.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.168	0.109	1.026	0.00	32.06
15.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.168	0.109	1.026	0.00	36.32
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	3.24	0.00	5.483	0.111	1.032	0.00	149.32
20.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	5.483	0.111	1.032	0.00	24.35
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.41	0.00	5.483	0.111	1.032	0.00	149.33
20.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.483	0.111	1.032	0.00	32.65
20.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.483	0.111	1.032	0.00	33.56
20.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.483	0.111	1.032	0.00	37.95
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	3.27	0.00	5.747	0.113	1.039	0.00	152.32
25.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	5.747	0.113	1.039	0.00	25.40
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.45	0.00	5.747	0.113	1.039	0.00	152.32
25.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.747	0.113	1.039	0.00	33.84
25.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.747	0.113	1.039	0.00	34.78
25.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.747	0.113	1.039	0.00	39.28
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	3.30	0.00	5.972	0.115	1.046	0.00	154.83
30.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	5.972	0.115	1.046	0.00	26.30
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.48	0.00	5.972	0.115	1.046	0.00	154.83
30.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.972	0.115	1.046	0.00	34.85
30.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.972	0.115	1.046	0.00	35.81
30.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.972	0.115	1.046	0.00	40.40
35.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	3.33	0.00	6.169	0.118	1.054	0.00	157.00
35.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	6.169	0.118	1.054	0.00	27.08
35.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.50	0.00	6.169	0.118	1.054	0.00	157.00
35.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.169	0.118	1.054	0.00	35.73
35.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.169	0.118	1.054	0.00	36.71
35.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.169	0.118	1.054	0.00	41.37
40.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	3.35	0.00	6.345	0.121	1.062	0.00	158.92
40.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	6.345	0.121	1.062	0.00	27.78
40.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.52	0.00	6.345	0.121	1.062	0.00	158.92
40.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.345	0.121	1.062	0.00	36.51
40.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.345	0.121	1.062	0.00	37.51
40.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.345	0.121	1.062	0.00	42.24
45.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	3.37	0.00	6.504	0.123	1.070	0.00	160.64
45.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	6.504	0.123	1.070	0.00	28.41
45.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.54	0.00	6.504	0.123	1.070	0.00	160.64
45.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.504	0.123	1.070	0.00	37.22
45.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.504	0.123	1.070	0.00	38.24
45.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.504	0.123	1.070	0.00	43.02
46.83	(6) 1 5/8" Coax	Yes	1.83	0.000	3.96	1.24	0.00	6.559	0.125	1.076	0.00	59.12
46.83	(1) RG6	Yes	1.83	0.000	0.00	0.00	0.00	6.559	0.125	1.076	0.00	10.50
46.83	(6) 1 5/8" Coax	Yes	1.83	0.000	1.98	0.94	0.00	6.559	0.125	1.076	0.00	59.12



Pole : 302466  
 Location : West Service Road, CT  
 Height : 147.9 (ft)  
 Base Dia : 56.58 (in)  
 Top Dia : 26.21 (in)  
 Shape : 18 Sides  
 Taper : 0.214565 (in/ft)

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

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**Load Case:** 1.2D + 1.0DI + 1.0Wi      50.00 mph with 1.00 in Radial Ice      22 Iterations

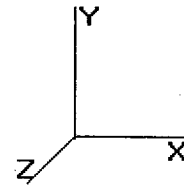
Gust Response Factor : 1.10      Ice Dead Load Factor : 1.00      Wind Importance Factor : 1.00  
 Dead Load Factor : 1.20      Ice Importance Factor : 1.00  
 Wind Load Factor : 1.00

46.83	(1) 7/8" Coax	Yes	1.83	0.000	0.00	0.00	0.00	6.559	0.125	1.076	0.00	13.74
46.83	(2) 1/2" Coax	Yes	1.83	0.000	0.00	0.00	0.00	6.559	0.125	1.076	0.00	14.11
46.83	(6) 5/16" Coax	Yes	1.83	0.000	0.00	0.00	0.00	6.559	0.125	1.076	0.00	15.87
50.00	(6) 1 5/8" Coax	Yes	3.17	0.000	3.96	2.15	0.00	6.650	0.127	1.080	0.00	102.73
50.00	(1) RG6	Yes	3.17	0.000	0.00	0.00	0.00	6.650	0.127	1.080	0.00	18.36
50.00	(6) 1 5/8" Coax	Yes	3.17	0.000	1.98	1.62	0.00	6.650	0.127	1.080	0.00	102.73
50.00	(1) 7/8" Coax	Yes	3.17	0.000	0.00	0.00	0.00	6.650	0.127	1.080	0.00	23.98
50.00	(2) 1/2" Coax	Yes	3.17	0.000	0.00	0.00	0.00	6.650	0.127	1.080	0.00	24.63
50.00	(6) 5/16" Coax	Yes	3.17	0.000	0.00	0.00	0.00	6.650	0.127	1.080	0.00	27.70
53.00	(6) 1 5/8" Coax	Yes	3.00	0.000	3.96	2.04	0.00	6.732	0.128	1.085	0.00	97.85
53.00	(1) RG6	Yes	3.00	0.000	0.00	0.00	0.00	6.732	0.128	1.085	0.00	17.59
53.00	(6) 1 5/8" Coax	Yes	3.00	0.000	1.98	1.54	0.00	6.732	0.128	1.085	0.00	97.85
53.00	(1) 7/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	6.732	0.128	1.085	0.00	22.94
53.00	(2) 1/2" Coax	Yes	3.00	0.000	0.00	0.00	0.00	6.732	0.128	1.085	0.00	23.56
53.00	(6) 5/16" Coax	Yes	3.00	0.000	0.00	0.00	0.00	6.732	0.128	1.085	0.00	26.48
55.00	(6) 1 5/8" Coax	Yes	2.00	0.000	3.96	1.36	0.00	6.785	0.128	1.084	0.00	65.45
55.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	6.785	0.128	1.084	0.00	11.81
55.00	(6) 1 5/8" Coax	Yes	2.00	0.000	1.98	1.03	0.00	6.785	0.128	1.084	0.00	65.46
55.00	(1) 7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.785	0.128	1.084	0.00	15.38
55.00	(2) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.785	0.128	1.084	0.00	15.80
55.00	(6) 5/16" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.785	0.128	1.084	0.00	17.76
60.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	3.42	0.00	6.910	0.130	1.090	0.00	164.96
60.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	6.910	0.130	1.090	0.00	30.01
60.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.59	0.00	6.910	0.130	1.090	0.00	164.97
60.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.910	0.130	1.090	0.00	39.01
60.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.910	0.130	1.090	0.00	40.07
60.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.910	0.130	1.090	0.00	45.01
65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	3.43	0.00	7.028	0.133	1.100	0.00	166.20
65.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	7.028	0.133	1.100	0.00	30.48
65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.61	0.00	7.028	0.133	1.100	0.00	166.20
65.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.028	0.133	1.100	0.00	39.53
65.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.028	0.133	1.100	0.00	40.60
65.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.028	0.133	1.100	0.00	45.58
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	3.45	0.00	7.138	0.137	1.110	0.00	167.35
70.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	7.138	0.137	1.110	0.00	30.91
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.62	0.00	7.138	0.137	1.110	0.00	167.35
70.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.138	0.137	1.110	0.00	40.02
70.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.138	0.137	1.110	0.00	41.10
70.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.138	0.137	1.110	0.00	46.11
75.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	3.46	0.00	7.243	0.140	1.120	0.00	168.43
75.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	7.243	0.140	1.120	0.00	31.32
75.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.63	0.00	7.243	0.140	1.120	0.00	168.44
75.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.243	0.140	1.120	0.00	40.47
75.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.243	0.140	1.120	0.00	41.56
75.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.243	0.140	1.120	0.00	46.62
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	3.47	0.00	7.342	0.144	1.131	0.00	169.46
80.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	7.342	0.144	1.131	0.00	31.71
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.65	0.00	7.342	0.144	1.131	0.00	169.46
80.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.342	0.144	1.131	0.00	40.91
80.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.342	0.144	1.131	0.00	42.01
80.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.342	0.144	1.131	0.00	47.09
85.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	3.48	0.00	7.436	0.148	1.143	0.00	170.43
85.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	7.436	0.148	1.143	0.00	32.08
85.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.66	0.00	7.436	0.148	1.143	0.00	170.43
85.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.436	0.148	1.143	0.00	41.32
85.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.436	0.148	1.143	0.00	42.43
85.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.436	0.148	1.143	0.00	47.55

Pole : 302466  
 Location : West Service Road, CT  
 Height : 147.9 (ft)  
 Base Dia : 56.58 (in)  
 Top Dia : 26.21 (in)  
 Shape : 18 Sides  
 Taper : 0.214565 (in/ft)

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

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**Load Case: 1.2D + 1.0Di + 1.0Wi**      50.00 mph with 1.00 in Radial Ice      22 Iterations

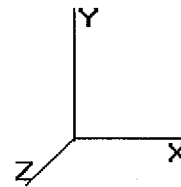
Gust Response Factor : 1.10      Ice Dead Load Factor : 1.00      Wind Importance Factor : 1.00  
 Dead Load Factor : 1.20      Ice Importance Factor : 1.00  
 Wind Load Factor : 1.00

90.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	3.49	0.00	7.526	0.152	1.155	0.00	171.35
90.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	7.526	0.152	1.155	0.00	32.43
90.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.67	0.00	7.526	0.152	1.155	0.00	171.35
90.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.526	0.152	1.155	0.00	41.71
90.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.526	0.152	1.155	0.00	42.83
90.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.526	0.152	1.155	0.00	47.98
94.92	(6) 1 5/8" Coax	Yes	4.92	0.000	3.96	3.44	0.00	7.611	0.156	1.168	0.00	169.34
94.92	(1) RG6	Yes	4.92	0.000	0.00	0.00	0.00	7.611	0.156	1.168	0.00	32.22
94.92	(6) 1 5/8" Coax	Yes	4.92	0.000	1.98	2.63	0.00	7.611	0.156	1.168	0.00	169.35
94.92	(1) 7/8" Coax	Yes	4.92	0.000	0.00	0.00	0.00	7.611	0.156	1.168	0.00	41.38
95.00	(6) 1 5/8" Coax	Yes	0.08	0.000	3.96	0.06	0.00	7.612	0.158	1.175	0.00	2.87
95.00	(1) RG6	Yes	0.08	0.000	0.00	0.00	0.00	7.612	0.158	1.175	0.00	0.55
95.00	(6) 1 5/8" Coax	Yes	0.08	0.000	1.98	0.04	0.00	7.612	0.158	1.175	0.00	2.87
95.00	(1) 7/8" Coax	Yes	0.08	0.000	0.00	0.00	0.00	7.612	0.158	1.175	0.00	0.70
99.83	(6) 1 5/8" Coax	Yes	4.83	0.000	3.96	3.39	0.00	7.692	0.161	1.182	0.00	167.27
99.83	(1) RG6	Yes	4.83	0.000	0.00	0.00	0.00	7.692	0.161	1.182	0.00	31.98
99.83	(6) 1 5/8" Coax	Yes	4.83	0.000	1.98	2.60	0.00	7.692	0.161	1.182	0.00	167.27
99.83	(1) 7/8" Coax	Yes	4.83	0.000	0.00	0.00	0.00	7.692	0.161	1.182	0.00	41.02
100.0	(6) 1 5/8" Coax	Yes	0.17	0.000	3.96	0.12	0.00	7.695	0.160	1.181	0.00	5.77
100.0	(1) RG6	Yes	0.17	0.000	0.00	0.00	0.00	7.695	0.160	1.181	0.00	1.10
100.0	(6) 1 5/8" Coax	Yes	0.17	0.000	1.98	0.09	0.00	7.695	0.160	1.181	0.00	5.77
100.0	(1) 7/8" Coax	Yes	0.17	0.000	0.00	0.00	0.00	7.695	0.160	1.181	0.00	1.41
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	3.52	0.00	7.774	0.163	1.188	0.00	173.87
105.0	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	7.774	0.163	1.188	0.00	33.41
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.70	0.00	7.774	0.163	1.188	0.00	173.87
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	3.53	0.00	7.851	0.168	1.203	0.00	174.64
110.0	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	7.851	0.168	1.203	0.00	33.71
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.70	0.00	7.851	0.168	1.203	0.00	174.64
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	3.54	0.00	7.925	0.173	1.219	0.00	175.38
115.0	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	7.925	0.173	1.219	0.00	33.99
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.71	0.00	7.925	0.173	1.219	0.00	175.39
120.0	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	3.55	0.00	7.996	0.119	1.057	0.00	176.10
120.0	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	7.996	0.119	1.057	0.00	34.27
125.0	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	3.55	0.00	8.065	0.123	1.069	0.00	176.79
125.0	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	8.065	0.123	1.069	0.00	34.54
<b>Totals:</b>											0.00	10,343.64

Pole : 302466  
 Location : West Service Road, CT  
 Height : 147.9 (ft)  
 Base Dia : 56.58 (in)  
 Top Dia : 26.21 (in)  
 Shape : 18 Sides  
 Taper : 0.214565 (in/ft)

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

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<b>Load Case:</b> 1.2D + 1.0Di + 1.0Wi	50.00 mph with 1.00 in Radial Ice	22 Iterations
Gust Response Factor : 1.10	Ice Dead Load Factor : 1.00	Wind Importance Factor : 1.00
Dead Load Factor : 1.20		Ice Importance Factor : 1.00
Wind Load Factor : 1.00		

**Applied Segment Forces Summary**

Seg Elev (ft)	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00	0.00	0.00	0.00	0.00
5.00	171.17	1,945.71	0.00	0.00
10.00	168.75	2,614.40	0.00	0.00
15.00	166.07	2,620.43	0.00	0.00
20.00	173.25	2,614.21	0.00	0.00
25.00	178.41	2,600.92	0.00	0.00
30.00	182.05	2,582.97	0.00	0.00
35.00	184.56	2,561.69	0.00	0.00
40.00	186.21	2,537.90	0.00	0.00
45.00	187.16	2,512.12	0.00	0.00
46.83	68.24	914.47	0.00	0.00
50.00	120.07	2,293.50	0.00	0.00
53.00	113.72	2,152.68	0.00	0.00
55.00	75.62	990.53	0.00	0.00
60.00	189.78	2,454.41	0.00	0.00
65.00	188.93	2,423.70	0.00	0.00
70.00	187.74	2,392.14	0.00	0.00
75.00	186.27	2,359.84	0.00	0.00
80.00	184.53	2,326.88	0.00	0.00
85.00	182.56	2,293.33	0.00	0.00
90.00	522.75	3,609.61	0.00	0.00
94.92	175.00	2,053.18	0.00	0.00
95.00	2.97	47.30	0.00	0.00
99.83	172.15	2,711.82	0.00	0.00
100.0	148.72	484.46	0.00	350.85
105.0	175.34	1,854.02	0.00	0.00
110.0	172.46	1,821.58	0.00	0.00
115.0	1,297.57	7,965.79	0.00	0.00
120.0	166.24	1,520.68	0.00	0.00
125.0	665.18	4,643.62	0.00	0.00
130.0	159.48	1,181.19	0.00	0.00
135.0	155.92	1,145.86	0.00	0.00
137.0	696.17	3,885.65	0.00	0.00
140.0	90.75	637.05	0.00	0.00
145.0	148.46	1,030.43	0.00	0.00
147.9	1,135.84	7,445.66	0.00	849.97
147.9	0.49	3.20	0.00	0.00
<b>Totals:</b>	<b>8,980.59</b>	<b>85,232.95</b>	<b>0.00</b>	<b>1,200.82</b>

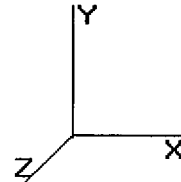


Pole : 302466  
 Location : West Service Road, CT  
 Height : 147.9 (ft)  
 Base Dia : 56.58 (in)  
 Top Dia : 26.21 (in)  
 Shape : 18 Sides  
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Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : C  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)

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**Load Case:** 1.2D + 1.0Di + 1.0Wi      50.00 mph with 1.00 in Radial Ice      22 Iterations

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

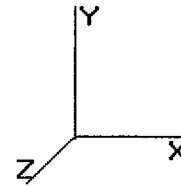
**Calculated Forces**

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-85.23	-9.02	0.00	-927.84	0.00	927.84	4,345.86	2,172.93	10,048.4	5,031.69	0.00	0.00	0.204
5.00	-83.28	-8.92	0.00	-882.75	0.00	882.75	4,297.95	2,148.97	9,746.71	4,880.60	0.03	-0.05	0.200
10.00	-80.65	-8.81	0.00	-838.18	0.00	838.18	4,248.67	2,124.33	9,446.21	4,730.12	0.10	-0.10	0.196
15.00	-78.03	-8.71	0.00	-794.12	0.00	794.12	4,198.03	2,099.01	9,147.11	4,580.35	0.23	-0.15	0.192
20.00	-75.41	-8.59	0.00	-750.59	0.00	750.59	4,146.02	2,073.01	8,849.60	4,431.38	0.41	-0.19	0.188
25.00	-72.80	-8.47	0.00	-707.64	0.00	707.64	4,092.65	2,046.33	8,553.86	4,283.29	0.64	-0.24	0.183
30.00	-70.21	-8.33	0.00	-665.31	0.00	665.31	4,037.92	2,018.96	8,260.07	4,136.18	0.92	-0.29	0.178
35.00	-67.64	-8.19	0.00	-623.66	0.00	623.66	3,981.82	1,990.91	7,968.42	3,990.13	1.26	-0.34	0.173
40.00	-65.10	-8.04	0.00	-582.70	0.00	582.70	3,924.36	1,962.18	7,679.09	3,845.25	1.64	-0.39	0.168
45.00	-62.58	-7.88	0.00	-542.48	0.00	542.48	3,865.54	1,932.77	7,392.25	3,701.62	2.08	-0.44	0.163
46.83	-61.67	-7.83	0.00	-528.04	0.00	528.04	3,843.63	1,921.82	7,287.74	3,649.29	2.25	-0.46	0.161
50.00	-59.37	-7.72	0.00	-503.26	0.00	503.26	3,805.35	1,902.68	7,108.10	3,559.33	2.57	-0.49	0.157
53.00	-57.21	-7.61	0.00	-480.10	0.00	480.10	3,811.38	1,905.69	7,136.13	3,573.37	2.89	-0.52	0.149
55.00	-56.22	-7.56	0.00	-464.88	0.00	464.88	3,786.98	1,893.49	7,023.14	3,516.79	3.11	-0.54	0.147
60.00	-53.76	-7.39	0.00	-427.08	0.00	427.08	3,725.01	1,862.51	6,742.74	3,376.38	3.70	-0.59	0.141
65.00	-51.33	-7.21	0.00	-390.14	0.00	390.14	3,661.69	1,830.84	6,465.44	3,237.53	4.34	-0.63	0.135
70.00	-48.94	-7.04	0.00	-354.08	0.00	354.08	3,597.00	1,798.50	6,191.43	3,100.31	5.03	-0.68	0.128
75.00	-46.58	-6.86	0.00	-318.90	0.00	318.90	3,530.95	1,765.47	5,920.87	2,964.83	5.76	-0.72	0.121
80.00	-44.25	-6.67	0.00	-284.62	0.00	284.62	3,463.53	1,731.77	5,653.95	2,831.18	6.53	-0.76	0.113
85.00	-41.95	-6.49	0.00	-251.26	0.00	251.26	3,394.75	1,697.38	5,390.86	2,699.44	7.35	-0.80	0.105
90.00	-38.35	-5.94	0.00	-218.83	0.00	218.83	3,324.61	1,662.30	5,131.78	2,569.70	8.21	-0.84	0.097
94.92	-36.29	-5.74	0.00	-189.64	0.00	189.64	3,235.43	1,617.71	4,852.78	2,430.00	9.10	-0.88	0.089
95.00	-36.25	-5.75	0.00	-189.16	0.00	189.16	3,233.85	1,616.92	4,848.02	2,427.61	9.11	-0.88	0.089
99.83	-33.54	-5.55	0.00	-161.37	0.00	161.37	2,561.72	1,280.86	3,809.83	1,907.74	10.02	-0.91	0.098
100.00	-33.05	-5.40	0.00	-160.09	0.00	160.09	2,559.96	1,279.98	3,803.41	1,904.53	10.05	-0.91	0.097
105.00	-31.20	-5.21	0.00	-133.09	0.00	133.09	2,506.38	1,253.19	3,612.46	1,808.91	11.02	-0.94	0.086
110.00	-29.38	-5.02	0.00	-107.03	0.00	107.03	2,451.43	1,225.72	3,424.36	1,714.72	12.03	-0.98	0.074
115.00	-21.43	-3.60	0.00	-81.91	0.00	81.91	2,395.12	1,197.56	3,239.30	1,622.06	13.07	-1.00	0.059
120.00	-19.91	-3.41	0.00	-63.91	0.00	63.91	2,337.45	1,168.73	3,057.46	1,531.00	14.13	-1.03	0.050
125.00	-15.28	-2.67	0.00	-46.85	0.00	46.85	2,271.20	1,135.60	2,869.91	1,437.09	15.22	-1.05	0.039
130.00	-14.10	-2.49	0.00	-33.50	0.00	33.50	2,192.15	1,096.07	2,672.63	1,338.30	16.32	-1.06	0.031
135.00	-12.96	-2.32	0.00	-21.05	0.00	21.05	2,113.09	1,056.55	2,482.37	1,243.03	17.44	-1.07	0.023
137.00	-9.09	-1.55	0.00	-16.42	0.00	16.42	2,081.47	1,040.73	2,408.24	1,205.91	17.89	-1.08	0.018
140.00	-8.45	-1.44	0.00	-11.78	0.00	11.78	2,034.04	1,017.02	2,299.14	1,151.28	18.57	-1.08	0.014
145.00	-7.43	-1.28	0.00	-4.55	0.00	4.55	1,954.98	977.49	2,122.94	1,063.05	19.70	-1.09	0.008
147.90	0.00	0.00	0.00	0.00	0.00	0.00	1,909.13	954.57	2,023.96	1,013.48	20.36	-1.09	0.000
147.92	0.00	0.00	0.00	0.00	0.00	0.00	1,908.86	954.43	2,023.38	1,013.20	20.37	-1.09	0.000

Pole : 302466  
 Location : West Service Road, CT  
 Height : 147.9 (ft)  
 Base Dia : 56.58 (in)  
 Top Dia : 26.21 (in)  
 Shape : 18 Sides  
 Taper : 0.214565 (in/ft)

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

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<b>Load Case: 1.0D + 1.0W</b>	<b>60.00 mph Serviceability</b>	<b>21 Iterations</b>
<b>Gust Response Factor : 1.10</b>		<b>Wind Importance Factor : 1.00</b>
<b>Dead Load Factor : 1.00</b>		
<b>Wind Load Factor : 1.00</b>		

**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	0.85	7.442	8.186	264.84	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	7.442	8.186	259.82	0.650	0.000	5.00	23.712	15.41	126.2	0.0	1,127.3
10.00		1.00	0.85	7.442	8.186	254.80	0.650	* 0.000	5.00	23.258	15.12	123.8	0.0	1,105.6
15.00		1.00	0.85	7.442	8.186	249.77	0.650	* 0.000	5.00	22.804	14.82	121.3	0.0	1,083.8
20.00		1.00	0.90	7.896	8.686	252.11	0.650	* 0.000	5.00	22.350	14.53	126.2	0.0	1,062.1
25.00		1.00	0.94	8.276	9.104	252.81	0.650	* 0.000	5.00	21.896	14.23	129.6	0.0	1,040.4
30.00		1.00	0.98	8.600	9.460	252.31	0.650	* 0.000	5.00	21.442	13.94	131.8	0.0	1,018.7
35.00		1.00	1.01	8.883	9.772	250.95	0.650	* 0.000	5.00	20.988	13.64	133.3	0.0	996.9
40.00		1.00	1.04	9.137	10.05	248.94	0.650	* 0.000	5.00	20.534	13.35	134.1	0.0	975.2
45.00		1.00	1.07	9.366	10.30	246.41	0.650	* 0.000	5.00	20.080	13.05	134.5	0.0	953.5
46.83	Bot - Section 2	1.00	1.07	9.445	10.39	245.37	0.650	* 0.000	1.83	7.249	4.71	49.0	0.0	344.2
50.00		1.00	1.09	9.576	10.53	243.46	0.650	* 0.000	3.17	12.578	8.18	86.1	0.0	1,184.8
53.00	Top - Section 1	1.00	1.10	9.694	10.66	241.52	0.650	* 0.000	3.00	11.748	7.64	81.4	0.0	1,106.4
55.00		1.00	1.11	9.770	10.74	244.18	0.650	* 0.000	2.00	7.741	5.03	54.1	0.0	367.5
60.00		1.00	1.13	9.951	10.94	240.62	0.650	* 0.000	5.00	19.036	12.37	135.4	0.0	903.5
65.00		1.00	1.15	10.120	11.13	236.80	0.650	* 0.000	5.00	18.582	12.08	134.5	0.0	881.8
70.00		1.00	1.17	10.279	11.30	232.76	0.650	* 0.000	5.00	18.128	11.78	133.2	0.0	860.1
75.00		1.00	1.19	10.430	11.47	228.51	0.650	* 0.000	5.00	17.674	11.49	131.8	0.0	838.3
80.00		1.00	1.20	10.572	11.62	224.08	0.650	* 0.000	5.00	17.220	11.19	130.2	0.0	816.6
85.00		1.00	1.22	10.708	11.77	219.49	0.650	* 0.000	5.00	16.766	10.90	128.4	0.0	794.9
90.00	Appertunance(s)	1.00	1.23	10.838	11.92	214.76	0.650	* 0.000	5.00	16.313	10.60	126.4	0.0	773.2
94.92	Bot - Section 3	1.00	1.25	10.960	12.05	209.97	0.650	* 0.000	4.92	15.598	10.14	122.2	0.0	739.1
95.00		1.00	1.25	10.962	12.05	209.89	0.650	* 0.000	0.08	0.265	0.17	2.1	0.0	22.8
99.83	Top - Section 2	1.00	1.26	11.077	12.18	205.06	0.650	* 0.000	4.83	15.154	9.85	120.0	0.0	1,305.1
100.0	Appertunance(s)	1.00	1.26	11.081	12.18	208.46	0.650	* 0.000	0.17	0.515	0.33	4.1	0.0	20.4
105.0		1.00	1.27	11.195	12.31	203.38	0.650	* 0.000	5.00	15.215	9.89	121.8	0.0	601.6
110.0		1.00	1.29	11.305	12.43	198.19	0.650	* 0.000	5.00	14.761	9.59	119.3	0.0	583.5
115.0	Appertunance(s)	1.00	1.30	11.412	12.55	192.90	0.650	* 0.000	5.00	14.307	9.30	116.7	0.0	565.4
120.0		1.00	1.31	11.514	12.66	187.52	0.650	* 0.000	5.00	13.854	9.00	114.1	0.0	547.3
125.0	Appertunance(s)	1.00	1.32	11.614	12.77	182.05	0.650	* 0.000	5.00	13.400	8.71	111.3	0.0	529.2
130.0		1.00	1.33	11.710	12.88	176.51	0.650	0.000	5.00	12.946	8.41	108.4	0.0	511.1
135.0		1.00	1.34	11.803	12.98	170.88	0.650	0.000	5.00	12.492	8.12	105.4	0.0	493.0
137.0	Appertunance(s)	1.00	1.35	11.840	13.02	168.62	0.650	0.000	2.00	4.870	3.17	41.2	0.0	192.1
140.0		1.00	1.35	11.894	13.08	165.19	0.650	0.000	3.00	7.168	4.66	61.0	0.0	282.7
145.0		1.00	1.36	11.982	13.18	159.43	0.650	0.000	5.00	11.584	7.53	99.2	0.0	456.8
147.9	Appertunance(s)	1.00	1.37	12.032	13.23	156.06	0.650	0.000	2.90	6.511	4.23	56.0	0.0	256.6
147.9		1.00	1.37	12.033	13.23	156.04	0.650	0.000	0.02	0.038	0.02	0.3	0.0	1.5
								<b>Totals:</b>				<b>3,654.4</b>	<b>0.0</b>	<b>25,342.5</b>

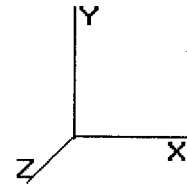
\* = Cf Adjusted By Linear Load Ra Effect

Pole : 302466  
 Location : West Service Road, CT  
 Height : 147.9 (ft)  
 Base Dia : 56.58 (in)  
 Top Dia : 26.21 (in)  
 Shape : 18 Sides  
 Taper : 0.214565 (in/ft)

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

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

60.00 mph Serviceability

21 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

**Discrete Appurtenance Segment Forces (Factored)**

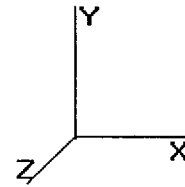
Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa Factor	Ka	Total CaAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
90.00	Argus LLPX310R	3	10.838	11.921	0.56	0.80	8.10	0.000	0.000	96.54	0.00	0.00	85.80
90.00	Collar	1	10.838	11.921	1.00	1.00	8.50	0.000	0.000	101.33	0.00	0.00	40.00
90.00	DragonWave A-ANT-	2	10.838	11.921	0.90	1.00	8.44	0.000	0.000	100.64	0.00	0.00	54.20
90.00	DragonWave Horizon	2	10.838	11.921	0.36	0.80	0.30	0.000	0.000	3.61	0.00	0.00	21.20
90.00	NextNet BTS-2500	3	10.838	11.921	0.36	0.80	2.29	0.000	0.000	27.30	0.00	0.00	105.00
100.0	Antel BCD-87010	1	11.208	12.329	1.00	1.00	2.90	0.000	5.583	35.75	0.00	199.63	26.50
100.0	Side Arm	1	11.081	12.189	1.00	1.00	6.30	0.000	0.000	76.79	0.00	0.00	150.00
115.0	Antel BXA-171063-8BF	2	11.412	12.553	0.80	0.80	4.70	0.000	0.000	59.05	0.00	0.00	21.00
115.0	Antel BXA-171063/12C	1	11.412	12.553	0.70	0.80	3.37	0.000	0.000	42.33	0.00	0.00	15.00
115.0	Antel BXA-70063/6CF	3	11.412	12.553	0.62	0.80	14.29	0.000	0.000	179.32	0.00	0.00	51.00
115.0	Antel LPA-80063/6CF	6	11.412	12.553	0.75	0.80	46.65	0.000	0.000	585.64	0.00	0.00	162.00
115.0	Flat Low Profile Pla	1	11.412	12.553	1.00	1.00	26.10	0.000	0.000	327.63	0.00	0.00	1,500.00
125.0	Andrew	6	11.614	12.775	0.36	0.80	1.02	0.000	0.000	12.97	0.00	0.00	66.00
125.0	RFS APX16DWV-	3	11.614	12.775	0.52	0.80	10.45	0.000	0.000	133.53	0.00	0.00	118.80
125.0	RFS APX16PV-16PVL-	3	11.614	12.775	0.54	0.80	10.85	0.000	0.000	138.58	0.00	0.00	118.80
125.0	Round T-Arm	3	11.614	12.775	0.50	0.75	14.62	0.000	0.000	186.80	0.00	0.00	750.00
137.0	48" x 4" Panels	9	11.840	13.024	0.65	0.80	12.19	0.000	0.000	158.75	0.00	0.00	180.00
137.0	Flat Low Profile Pla	1	11.840	13.024	1.00	1.00	26.10	0.000	0.000	339.93	0.00	0.00	1,500.00
147.9	48" x 12" Panels	9	12.068	13.275	0.50	0.75	25.33	0.000	2.100	336.20	0.00	706.02	270.00
147.9	72" x 12" Panels	3	12.068	13.275	0.50	0.75	12.66	0.000	2.100	168.10	0.00	353.01	135.00
147.9	Flat Platform with H	1	12.032	13.236	1.00	1.00	42.40	0.000	0.000	561.19	0.00	0.00	2,000.00
										3,671.96			7,370.30



Pole : 302466  
 Location : West Service Road, CT  
 Height : 147.9 (ft)  
 Base Dia : 56.58 (in)  
 Top Dia : 26.21 (in)  
 Shape : 18 Sides  
 Taper : 0.214565 (in/ft)

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

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<b>Load Case:</b> 1.0D + 1.0W	60.00 mph Serviceability	21 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

**Linear Appurtenance Segment Forces (Factored)**

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	qz (psf)	Ra	Cf Adjust Factor	FX (lb)	Dead Load (lb)
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	7.442	0.106	1.019	0.00	24.60
10.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	7.442	0.106	1.019	0.00	0.14
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	7.442	0.106	1.019	0.00	24.60
10.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.442	0.106	1.019	0.00	1.65
10.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.442	0.106	1.019	0.00	1.50
10.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.442	0.106	1.019	0.00	1.35
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	7.442	0.109	1.026	0.00	24.60
15.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	7.442	0.109	1.026	0.00	0.14
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	7.442	0.109	1.026	0.00	24.60
15.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.442	0.109	1.026	0.00	1.65
15.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.442	0.109	1.026	0.00	1.50
15.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.442	0.109	1.026	0.00	1.35
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	7.896	0.111	1.032	0.00	24.60
20.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	7.896	0.111	1.032	0.00	0.14
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	7.896	0.111	1.032	0.00	24.60
20.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.896	0.111	1.032	0.00	1.65
20.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.896	0.111	1.032	0.00	1.50
20.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.896	0.111	1.032	0.00	1.35
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	8.276	0.113	1.039	0.00	24.60
25.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	8.276	0.113	1.039	0.00	0.14
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	8.276	0.113	1.039	0.00	24.60
25.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.276	0.113	1.039	0.00	1.65
25.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.276	0.113	1.039	0.00	1.50
25.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.276	0.113	1.039	0.00	1.35
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	8.600	0.115	1.046	0.00	24.60
30.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	8.600	0.115	1.046	0.00	0.14
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	8.600	0.115	1.046	0.00	24.60
30.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.600	0.115	1.046	0.00	1.65
30.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.600	0.115	1.046	0.00	1.50
30.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.600	0.115	1.046	0.00	1.35
35.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	8.883	0.118	1.054	0.00	24.60
35.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	8.883	0.118	1.054	0.00	0.14
35.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	8.883	0.118	1.054	0.00	24.60
35.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.883	0.118	1.054	0.00	1.65
35.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.883	0.118	1.054	0.00	1.50
35.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.883	0.118	1.054	0.00	1.35
40.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	9.137	0.121	1.062	0.00	24.60
40.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	9.137	0.121	1.062	0.00	0.14
40.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	9.137	0.121	1.062	0.00	24.60
40.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.137	0.121	1.062	0.00	1.65
40.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.137	0.121	1.062	0.00	1.50
40.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.137	0.121	1.062	0.00	1.35
45.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	9.366	0.123	1.070	0.00	24.60
45.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	9.366	0.123	1.070	0.00	0.14
45.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	9.366	0.123	1.070	0.00	24.60
45.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.366	0.123	1.070	0.00	1.65
45.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.366	0.123	1.070	0.00	1.50
45.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.366	0.123	1.070	0.00	1.35
46.83	(6) 1 5/8" Coax	Yes	1.83	0.000	3.96	0.61	0.00	9.445	0.125	1.076	0.00	9.02
46.83	(1) RG6	Yes	1.83	0.000	0.00	0.00	0.00	9.445	0.125	1.076	0.00	0.05
46.83	(6) 1 5/8" Coax	Yes	1.83	0.000	1.98	0.30	0.00	9.445	0.125	1.076	0.00	9.02

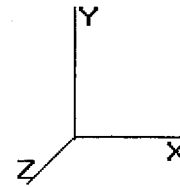
Pole : 302466  
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**Load Case: 1.0D + 1.0W**                      60.00 mph Serviceability                      21 Iterations

Gust Response Factor : 1.10                      Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

46.83	(1) 7/8" Coax	Yes	1.83	0.000	0.00	0.00	0.00	9.445	0.125	1.076	0.00	0.61
46.83	(2) 1/2" Coax	Yes	1.83	0.000	0.00	0.00	0.00	9.445	0.125	1.076	0.00	0.55
46.83	(6) 5/16" Coax	Yes	1.83	0.000	0.00	0.00	0.00	9.445	0.125	1.076	0.00	0.50
50.00	(6) 1 5/8" Coax	Yes	3.17	0.000	3.96	1.04	0.00	9.576	0.127	1.080	0.00	15.58
50.00	(1) RG6	Yes	3.17	0.000	0.00	0.00	0.00	9.576	0.127	1.080	0.00	0.09
50.00	(6) 1 5/8" Coax	Yes	3.17	0.000	1.98	0.52	0.00	9.576	0.127	1.080	0.00	15.58
50.00	(1) 7/8" Coax	Yes	3.17	0.000	0.00	0.00	0.00	9.576	0.127	1.080	0.00	1.04
50.00	(2) 1/2" Coax	Yes	3.17	0.000	0.00	0.00	0.00	9.576	0.127	1.080	0.00	0.95
50.00	(6) 5/16" Coax	Yes	3.17	0.000	0.00	0.00	0.00	9.576	0.127	1.080	0.00	0.85
53.00	(6) 1 5/8" Coax	Yes	3.00	0.000	3.96	0.99	0.00	9.694	0.128	1.085	0.00	14.76
53.00	(1) RG6	Yes	3.00	0.000	0.00	0.00	0.00	9.694	0.128	1.085	0.00	0.09
53.00	(6) 1 5/8" Coax	Yes	3.00	0.000	1.98	0.50	0.00	9.694	0.128	1.085	0.00	14.76
53.00	(1) 7/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	9.694	0.128	1.085	0.00	0.99
53.00	(2) 1/2" Coax	Yes	3.00	0.000	0.00	0.00	0.00	9.694	0.128	1.085	0.00	0.90
53.00	(6) 5/16" Coax	Yes	3.00	0.000	0.00	0.00	0.00	9.694	0.128	1.085	0.00	0.81
55.00	(6) 1 5/8" Coax	Yes	2.00	0.000	3.96	0.66	0.00	9.770	0.128	1.084	0.00	9.84
55.00	(1) RG6	Yes	2.00	0.000	0.00	0.00	0.00	9.770	0.128	1.084	0.00	0.06
55.00	(6) 1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	9.770	0.128	1.084	0.00	9.84
55.00	(1) 7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	9.770	0.128	1.084	0.00	0.66
55.00	(2) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	9.770	0.128	1.084	0.00	0.60
55.00	(6) 5/16" Coax	Yes	2.00	0.000	0.00	0.00	0.00	9.770	0.128	1.084	0.00	0.54
60.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	9.951	0.130	1.090	0.00	24.60
60.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	9.951	0.130	1.090	0.00	0.14
60.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	9.951	0.130	1.090	0.00	24.60
60.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.951	0.130	1.090	0.00	1.65
60.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.951	0.130	1.090	0.00	1.50
60.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.951	0.130	1.090	0.00	1.35
65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	10.120	0.133	1.100	0.00	24.60
65.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	10.120	0.133	1.100	0.00	0.14
65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	10.120	0.133	1.100	0.00	24.60
65.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.120	0.133	1.100	0.00	1.65
65.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.120	0.133	1.100	0.00	1.50
65.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.120	0.133	1.100	0.00	1.35
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	10.279	0.137	1.110	0.00	24.60
70.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	10.279	0.137	1.110	0.00	0.14
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	10.279	0.137	1.110	0.00	24.60
70.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.279	0.137	1.110	0.00	1.65
70.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.279	0.137	1.110	0.00	1.50
70.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.279	0.137	1.110	0.00	1.35
75.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	10.430	0.140	1.120	0.00	24.60
75.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	10.430	0.140	1.120	0.00	0.14
75.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	10.430	0.140	1.120	0.00	24.60
75.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.430	0.140	1.120	0.00	1.65
75.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.430	0.140	1.120	0.00	1.50
75.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.430	0.140	1.120	0.00	1.35
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	10.572	0.144	1.131	0.00	24.60
80.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	10.572	0.144	1.131	0.00	0.14
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	10.572	0.144	1.131	0.00	24.60
80.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.572	0.144	1.131	0.00	1.65
80.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.572	0.144	1.131	0.00	1.50
80.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.572	0.144	1.131	0.00	1.35
85.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	10.708	0.148	1.143	0.00	24.60
85.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	10.708	0.148	1.143	0.00	0.14
85.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	10.708	0.148	1.143	0.00	24.60
85.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.708	0.148	1.143	0.00	1.65
85.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.708	0.148	1.143	0.00	1.50
85.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.708	0.148	1.143	0.00	1.35

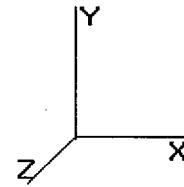
Pole : 302466  
 Location : West Service Road, CT  
 Height : 147.9 (ft)  
 Base Dia : 56.58 (in)  
 Top Dia : 26.21 (in)  
 Shape : 18 Sides  
 Taper : 0.214565 (in/ft)

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

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**Load Case: 1.0D + 1.0W**                      **60.00 mph Serviceability**                      **21 Iterations**

Gust Response Factor : 1.10                      Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

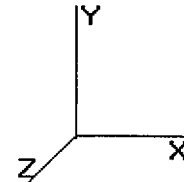
90.00	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	10.838	0.152	1.155	0.00	24.60
90.00	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	10.838	0.152	1.155	0.00	0.14
90.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	10.838	0.152	1.155	0.00	24.60
90.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.838	0.152	1.155	0.00	1.65
90.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.838	0.152	1.155	0.00	1.50
90.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.838	0.152	1.155	0.00	1.35
94.92	(6) 1 5/8" Coax	Yes	4.92	0.000	3.96	1.62	0.00	10.960	0.156	1.168	0.00	24.19
94.92	(1) RG6	Yes	4.92	0.000	0.00	0.00	0.00	10.960	0.156	1.168	0.00	0.14
94.92	(6) 1 5/8" Coax	Yes	4.92	0.000	1.98	0.81	0.00	10.960	0.156	1.168	0.00	24.19
94.92	(1) 7/8" Coax	Yes	4.92	0.000	0.00	0.00	0.00	10.960	0.156	1.168	0.00	1.62
95.00	(6) 1 5/8" Coax	Yes	0.08	0.000	3.96	0.03	0.00	10.962	0.158	1.175	0.00	0.41
95.00	(1) RG6	Yes	0.08	0.000	0.00	0.00	0.00	10.962	0.158	1.175	0.00	0.00
95.00	(6) 1 5/8" Coax	Yes	0.08	0.000	1.98	0.01	0.00	10.962	0.158	1.175	0.00	0.41
95.00	(1) 7/8" Coax	Yes	0.08	0.000	0.00	0.00	0.00	10.962	0.158	1.175	0.00	0.03
99.83	(6) 1 5/8" Coax	Yes	4.83	0.000	3.96	1.60	0.00	11.077	0.161	1.182	0.00	23.78
99.83	(1) RG6	Yes	4.83	0.000	0.00	0.00	0.00	11.077	0.161	1.182	0.00	0.14
99.83	(6) 1 5/8" Coax	Yes	4.83	0.000	1.98	0.80	0.00	11.077	0.161	1.182	0.00	23.78
99.83	(1) 7/8" Coax	Yes	4.83	0.000	0.00	0.00	0.00	11.077	0.161	1.182	0.00	1.60
100.0	(6) 1 5/8" Coax	Yes	0.17	0.000	3.96	0.05	0.00	11.081	0.160	1.181	0.00	0.82
100.0	(1) RG6	Yes	0.17	0.000	0.00	0.00	0.00	11.081	0.160	1.181	0.00	0.00
100.0	(6) 1 5/8" Coax	Yes	0.17	0.000	1.98	0.03	0.00	11.081	0.160	1.181	0.00	0.82
100.0	(1) 7/8" Coax	Yes	0.17	0.000	0.00	0.00	0.00	11.081	0.160	1.181	0.00	0.05
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	11.195	0.163	1.188	0.00	24.60
105.0	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	11.195	0.163	1.188	0.00	0.14
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	11.195	0.163	1.188	0.00	24.60
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	11.305	0.168	1.203	0.00	24.60
110.0	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	11.305	0.168	1.203	0.00	0.14
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	11.305	0.168	1.203	0.00	24.60
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	11.412	0.173	1.219	0.00	24.60
115.0	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	11.412	0.173	1.219	0.00	0.14
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	11.412	0.173	1.219	0.00	24.60
120.0	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	11.514	0.119	1.057	0.00	24.60
120.0	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	11.514	0.119	1.057	0.00	0.14
125.0	(6) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	11.614	0.123	1.069	0.00	24.60
125.0	(1) RG6	Yes	5.00	0.000	0.00	0.00	0.00	11.614	0.123	1.069	0.00	0.14
<b>Totals:</b>											<b>0.00</b>	<b>1,214.81</b>



Pole : 302466  
 Location : West Service Road, CT  
 Height : 147.9 (ft)  
 Base Dia : 56.58 (in)  
 Top Dia : 26.21 (in)  
 Shape : 18 Sides  
 Taper : 0.214565 (in/ft)

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

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

60.00 mph Serviceability

21 Iterations

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

Wind Importance Factor : 1.00

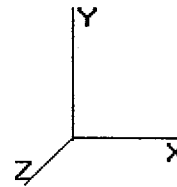
**Applied Segment Forces Summary**

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
5.00	126.17	1,127.29	0.00	0.00
10.00	123.75	1,381.78	0.00	0.00
15.00	121.34	1,360.06	0.00	0.00
20.00	126.18	1,338.33	0.00	0.00
25.00	129.57	1,316.61	0.00	0.00
30.00	131.84	1,294.88	0.00	0.00
35.00	133.31	1,273.16	0.00	0.00
40.00	134.15	1,251.43	0.00	0.00
45.00	134.47	1,229.71	0.00	0.00
46.83	48.96	445.45	0.00	0.00
50.00	86.12	1,359.74	0.00	0.00
53.00	81.43	1,272.10	0.00	0.00
55.00	54.08	477.97	0.00	0.00
60.00	135.44	1,179.72	0.00	0.00
65.00	134.46	1,158.00	0.00	0.00
70.00	133.23	1,136.27	0.00	0.00
75.00	131.80	1,114.55	0.00	0.00
80.00	130.17	1,092.82	0.00	0.00
85.00	128.37	1,071.10	0.00	0.00
90.00	455.81	1,355.57	0.00	0.00
94.92	122.23	970.63	0.00	0.00
95.00	2.08	26.75	0.00	0.00
99.83	120.02	1,532.67	0.00	0.00
100.0	116.62	204.71	0.00	199.63
105.0	121.79	835.40	0.00	0.00
110.0	119.32	817.30	0.00	0.00
115.0	1,310.70	2,548.20	0.00	0.00
120.0	114.05	707.30	0.00	0.00
125.0	583.15	1,742.79	0.00	0.00
130.0	108.39	597.15	0.00	0.00
135.0	105.42	579.05	0.00	0.00
137.0	539.90	1,906.55	0.00	0.00
140.0	60.96	312.26	0.00	0.00
145.0	99.24	505.95	0.00	0.00
147.9	1,121.50	2,690.15	0.00	1,059.04
147.9	0.32	1.49	0.00	0.00
Totals:	7,326.37	39,214.87	0.00	1,258.66

Pole : 302466  
 Location : West Service Road, CT  
 Height : 147.9 (ft)  
 Base Dia : 56.58 (in)  
 Top Dia : 26.21 (in)  
 Shape : 18 Sides  
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Code: ANSI/TIA-222 Rev G  
 Struct Class : II  
 Exposure Category : C  
 Topographic Category : 1  
 Base Elev : 0.000 (ft)

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

60.00 mph Serviceability

21 Iterations

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

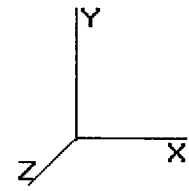
Wind Importance Factor : 1.00

**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	-39.21	-7.34	0.00	-753.50	0.00	753.50	4,345.86	2,172.93	10,048.4	5,031.69	0.00	0.00	0.159
5.00	-38.08	-7.24	0.00	-716.80	0.00	716.80	4,297.95	2,148.97	9,746.71	4,880.60	0.02	-0.04	0.156
10.00	-36.69	-7.14	0.00	-680.61	0.00	680.61	4,248.67	2,124.33	9,446.21	4,730.12	0.08	-0.08	0.153
15.00	-35.33	-7.04	0.00	-644.92	0.00	644.92	4,198.03	2,099.01	9,147.11	4,580.35	0.19	-0.12	0.149
20.00	-33.99	-6.93	0.00	-609.72	0.00	609.72	4,146.02	2,073.01	8,849.60	4,431.38	0.33	-0.16	0.146
25.00	-32.66	-6.82	0.00	-575.05	0.00	575.05	4,092.65	2,046.33	8,553.86	4,283.29	0.52	-0.20	0.142
30.00	-31.37	-6.71	0.00	-540.94	0.00	540.94	4,037.92	2,018.96	8,260.07	4,136.18	0.75	-0.24	0.139
35.00	-30.09	-6.59	0.00	-507.40	0.00	507.40	3,981.82	1,990.91	7,968.42	3,990.13	1.02	-0.28	0.135
40.00	-28.83	-6.47	0.00	-474.44	0.00	474.44	3,924.36	1,962.18	7,679.09	3,845.25	1.33	-0.32	0.131
45.00	-27.60	-6.34	0.00	-442.10	0.00	442.10	3,865.54	1,932.77	7,392.25	3,701.62	1.69	-0.36	0.127
46.83	-27.15	-6.30	0.00	-430.47	0.00	430.47	3,843.63	1,921.82	7,287.74	3,649.29	1.83	-0.37	0.125
50.00	-25.79	-6.22	0.00	-410.52	0.00	410.52	3,805.35	1,902.68	7,108.10	3,559.33	2.09	-0.40	0.122
53.00	-24.52	-6.13	0.00	-391.88	0.00	391.88	3,811.38	1,905.69	7,136.13	3,573.37	2.35	-0.42	0.116
55.00	-24.04	-6.09	0.00	-379.61	0.00	379.61	3,786.98	1,893.49	7,023.14	3,516.79	2.53	-0.44	0.114
60.00	-22.86	-5.96	0.00	-349.18	0.00	349.18	3,725.01	1,862.51	6,742.74	3,376.38	3.01	-0.48	0.110
65.00	-21.70	-5.83	0.00	-319.40	0.00	319.40	3,661.69	1,830.84	6,465.44	3,237.53	3.53	-0.51	0.105
70.00	-20.56	-5.70	0.00	-290.27	0.00	290.27	3,597.00	1,798.50	6,191.43	3,100.31	4.09	-0.55	0.099
75.00	-19.44	-5.56	0.00	-261.79	0.00	261.79	3,530.95	1,765.47	5,920.87	2,964.83	4.68	-0.59	0.094
80.00	-18.35	-5.43	0.00	-233.97	0.00	233.97	3,463.53	1,731.77	5,653.95	2,831.18	5.32	-0.62	0.088
85.00	-17.27	-5.30	0.00	-206.80	0.00	206.80	3,394.75	1,697.38	5,390.86	2,699.44	5.98	-0.65	0.082
90.00	-15.92	-4.84	0.00	-180.29	0.00	180.29	3,324.61	1,662.30	5,131.78	2,569.70	6.69	-0.69	0.075
94.92	-14.95	-4.71	0.00	-156.49	0.00	156.49	3,235.43	1,617.71	4,852.78	2,430.00	7.41	-0.71	0.069
95.00	-14.92	-4.71	0.00	-156.10	0.00	156.10	3,233.85	1,616.92	4,848.02	2,427.61	7.42	-0.71	0.069
99.83	-13.39	-4.57	0.00	-133.33	0.00	133.33	2,561.72	1,280.86	3,809.83	1,907.74	8.16	-0.74	0.075
100.00	-13.19	-4.46	0.00	-132.37	0.00	132.37	2,559.96	1,279.98	3,803.41	1,904.53	8.18	-0.74	0.075
105.00	-12.35	-4.33	0.00	-110.08	0.00	110.08	2,506.38	1,253.19	3,612.46	1,808.91	8.98	-0.77	0.066
110.00	-11.53	-4.21	0.00	-88.42	0.00	88.42	2,451.43	1,225.72	3,424.36	1,714.72	9.80	-0.80	0.056
115.00	-9.00	-2.86	0.00	-67.38	0.00	67.38	2,395.12	1,197.56	3,239.30	1,622.06	10.65	-0.82	0.045
120.00	-8.30	-2.74	0.00	-53.07	0.00	53.07	2,337.45	1,168.73	3,057.46	1,531.00	11.52	-0.84	0.038
125.00	-6.56	-2.13	0.00	-39.36	0.00	39.36	2,271.20	1,135.60	2,869.91	1,437.09	12.41	-0.86	0.030
130.00	-5.97	-2.02	0.00	-28.69	0.00	28.69	2,192.15	1,096.07	2,672.63	1,338.30	13.31	-0.87	0.024
135.00	-5.39	-1.90	0.00	-18.60	0.00	18.60	2,113.09	1,056.55	2,482.37	1,243.03	14.23	-0.88	0.018
137.00	-3.49	-1.34	0.00	-14.79	0.00	14.79	2,081.47	1,040.73	2,408.24	1,205.91	14.60	-0.88	0.014
140.00	-3.18	-1.27	0.00	-10.78	0.00	10.78	2,034.04	1,017.02	2,299.14	1,151.28	15.15	-0.89	0.011
145.00	-2.67	-1.16	0.00	-4.43	0.00	4.43	1,954.98	977.49	2,122.94	1,063.05	16.08	-0.89	0.006
147.90	0.00	0.00	0.00	0.00	0.00	0.00	1,909.13	954.57	2,023.96	1,013.48	16.62	-0.89	0.000
147.92	0.00	0.00	0.00	0.00	0.00	0.00	1,908.86	954.43	2,023.38	1,013.20	16.63	-0.89	0.000

Pole : 302466  
 Location : West Service Road, CT  
 Height : 147.9 (ft)  
 Base Dia : 56.58 (in)  
 Top Dia : 26.21 (in)  
 Shape : 18 Sides  
 Taper : 0.214565 (in/ft)

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



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**Analysis Summary**

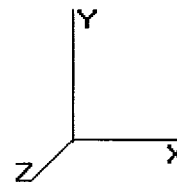
Load Case	Reactions						Max Usage	
	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.6W	30.69	0.00	47.01	0.00	0.00	3141.59	0.00	0.64
1.2D + 1.0Di + 1.0Wi	9.02	0.00	85.23	0.00	0.00	927.84	0.00	0.20
1.0D + 1.0W	7.34	0.00	39.21	0.00	0.00	753.50	0.00	0.16



Pole : 302466  
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## Base Summary

### Reactions

Original Design			Analysis			Moment Design %
Moment (kip-ft)	Axial (kip)	Shear (kip)	Moment (kip-ft)	Axial (kip)	Shear (kip)	
3,969.00	39.50	29.40	3,141.59	85.23	30.69	79.15

### Base Plate

Yield (ksi)	Thick (in)	Width (in)	Style	Poly Sides	Clip Len (in)	Effective Len (in)	Mu (kip-in)	Phi Mn (kip-in)	Ratio
60.0	2.500	69.000	Round	0	0.00	11.224	497.34	946.99	0.53

### Anchor Bolts

Bolt Circle	Num Bolts	Bolt Type	Bolt Dia (in)	Yield (ksi)	Ultimate (ksi)	Arrange	Cluster Dist (in)	Start Angle (deg)	Compression			Tension		
									Force (kip)	Allow (kip)	Ratio	Force (kip)	Allow (kip)	Ratio
63.00	16	2.25" 18J	2.25	75.00	100.00	Radial	0.00	0.0	154.93	260.00	0.61	144.27	260.00	0.57