

September 11, 2023

Melanie A. Bachman, Esq.  
Executive Director/Staff Attorney  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

Re: **Notice of Exempt Modification – Facility Modification  
33 (a/k/a 86) Boardman Road, New Milford, Connecticut**

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains a wireless telecommunications facility at the above-referenced address (the “Property”). Cellco’s facility consists of antennas and remote radio heads attached to a tower. Equipment associated with the facility is located on the ground adjacent to the tower. The tower was approved by the Siting Council (“Council”) in July of 2004 (Docket No. 285). Cellco’s shared use of the tower was approved by the Council in January of 2006 (EM-VER-017-020-096-068-060104). A copy of the Council’s Docket No. 285 Decision and Order and the Cellco’s shared use approval are included in Attachment 1.

Cellco’s proposed modification involves the installation of two (2) interference mitigation filters (“Filters”) on its existing antenna platform and mounting assembly. The Filter specification sheet is included in Attachment 2.

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 New Milford’s Chief Elected Official and Land Use Officer.

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

1. The proposed modification will not result in an increase in the height of the existing tower. The Filters will be installed on Cellco’s existing antenna platform and mounting

Melanie A. Bachman, Esq.  
September 11, 2023  
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assembly.

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

3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.

4. The installation of Cellco's new Filters will not result in a change to radio frequency (RF) emissions from the facility. Therefore, no new RF emissions information is included in this filing.

5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.

6. According to the attached Structural Analysis Report ("SA") and Antenna Mount Analysis Report ("MA"), the existing tower, foundation, antenna platform and mounting assembly can support Cellco's proposed modifications. A copy of the SA and MA are included in Attachment 3.

A copy of the parcel map and Property owner information is included in Attachment 4. A Certificate of Mailing verifying that this filing was sent to municipal officials and the property owner is included in Attachment 5.

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:

Pete Bass, Mayor  
Laura Regan, Town Planner  
Quarry Stone + Gravel LLC, Property Owner  
Alex Tyurin, Verizon Wireless

# ATTACHMENT 1

<b>DOCKET NO. 285</b> - Sprint Spectrum, L.P. application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a wireless telecommunications facility at 33 Boardman Road, New Milford, Connecticut.	}	Connecticut
	}	Siting
	}	Council
		July 13, 2004

## Decision and Order

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a telecommunications facility including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate either alone or cumulatively with other effects when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to Sprint Spectrum, L.P. for the construction, maintenance and operation of a wireless telecommunications facility at 33 Boardman Road, New Milford, Connecticut.

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

1. The tower shall be constructed as a monopole, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of Sprint Spectrum L.P., Nextel Communications, Inc., and other entities, both public and private, but such tower shall not exceed a height of 150 feet above ground level. The height at the top of the antennas shall not exceed a height of 153 feet above ground level.
2. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be served on the Town of New Milford, and all parties and intervenors as listed in the service list, and submitted to and approved by the Council prior to the commencement of facility construction. The D&M shall include:
  - a. a final site plan(s) of site development to include specifications for the tower, tower foundation, antennas, equipment building, access road, utility line, and landscaping; and



- b. construction plans for site clearing, water drainage, and erosion and sedimentation control consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.

3. Prior to submission of the D&M plan to the Council, the Certificate Holder shall discuss the appropriateness and feasibility of stealth tower designs for this site with the Town. The Town and Certificate Holder shall agree upon the final tower design.

4. The Certificate Holder shall, prior to the commencement of operation, provide the Council worst-case

modeling of electromagnetic radio frequency power density of all proposed entities' antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Certificate Holder shall ensure a recalculated report of electromagnetic radio frequency power density is submitted to the Council when circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.

5. Upon the establishment of any new State or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.

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

7. The Certificate Holder shall provide reasonable space on the tower for no compensation for any municipal antennas, provided such antennas are compatible with the structural integrity of the tower.

8. If the facility does not initially provide wireless services within one year of completion of construction or ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.

9. Any antenna that becomes obsolete and ceases to function shall be removed within 60 days after such antennas become obsolete and cease to function.

10. Unless otherwise approved by the Council, this Decision and Order shall be void if the facility authorized herein is not operational within one year of the effective date of this Decision and Order or within one year after all appeals to this Decision and Order have been resolved. Any request for extension of this

period shall be filed with the Council no later than sixty days prior to expiration date of this Certificate and shall be served on all parties and intervenors, as listed in the service list. Any proposed modifications to this Decision and Order shall likewise be so served.

Pursuant to General Statutes § 16-50p, we hereby direct that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in the Hartford Courant, the New Milford Spectrum, and the New Milford Times.

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

The parties and intervenors to this proceeding are:

<b><u>Applicant</u></b>	<b><u>Its Representative</u></b>
Sprint Spectrum, L.P.	Thomas J. Regan, Esquire Brown Rudnick Berlack Isreals LLP CityPlace I, 38 <sup>th</sup> Floor 185 Asylum Street Hartford, CT 06103-3402
<b><u>Intervenor</u></b>	<b><u>Its Representative</u></b>
Nextel Communications, Inc.	Julie Donaldson Kohler Hurwitz & Sagarin P.O. Box 112 Milford, CT 06460



# 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@po.state.ct.us](mailto:siting.council@po.state.ct.us)

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

January 26, 2006

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

RE: **EM-VER-017-020-096-068-060104** - Celco Partnership d/b/a Verizon Wireless notice of intent to modify existing telecommunications facilities located at 371 Terryville Avenue, Bristol; 12 Nepaug Road, Burlington; 399 Chestnut Land Road, New Milford; 33 Boardman Road, New Milford; and 136 Bulls Bridge Road, Kent, Connecticut.

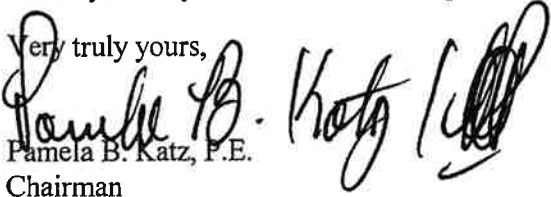
Dear Attorney Baldwin:

At a public meeting held on January 25, 2006, the Connecticut Siting Council (Council) acknowledged your notice to modify these existing telecommunications facilities, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated January 4, 2006, including the placement of all necessary equipment and shelters within the tower compounds. 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 existing facility sites that would not increase tower heights, extend the boundaries of the tower sites, increase noise levels at the tower site boundaries by six decibels, and increase the total radio frequencies electromagnetic radiation power densities measured at the tower site boundaries to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. These facilities have also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on these towers.

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 any of these facilities 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. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,  
  
Pamela B. Katz, P.E.  
Chairman

PBK/laf

c: See attached List

List Attachment:

- c: The Honorable William T. Stortz, Mayor, City of Bristol
- Alan Weiner, Planner/Dev. Coordinator, City of Bristol
- The Honorable Theodore C. Scheidel, Jr., First Selectman, Town of Burlington
- Robert J. Coates, Planning and Zoning Chairman, Town of Burlington
- The Honorable Ruth S. Epstein, First Selectman, Town of Kent
- Judith Wick, Zoning Enforcement Officer, Town of Kent
- The Honorable Patricia A. Murphy, Mayor, Town of New Milford
- Christopher B. Fisher, Esq., Cuddy & Feder LLP
- Michele G. Briggs, New Cingular Wireless PCS, LLC
- Thomas F. Flynn III, Sprint Nextel Corporation
- Thomas J. Regan, Esq., Brown Rudnick Berlack Israels LLP

# **ATTACHMENT 2**

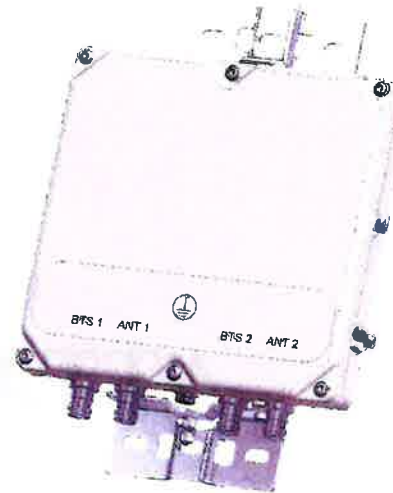
# BSF0020F3V1-1

## TWIN BANDSTOP 900MHz INTERFERENCE MITIGATION FILTER

The BSF0020 is ideal for co-located 700, 850 and 900 networks. Utilising a 2.6MHz guardband the BSF0020 provides rejection of the 900 UL band while passing 700/850 UL and DL bands. Capable of being used in an outdoor environment the BSF0020 contains two identical bandstop filters, suitable for 2x2 MIMO configuration, offering excellent insertion loss, group delay and rejection.

### FEATURES

- Passes full 700 and 850 bands
- Low insertion loss
- Rejection of 900MHz uplink
- DC/AISG pass
- Twin unit
- Dual twin mounting available



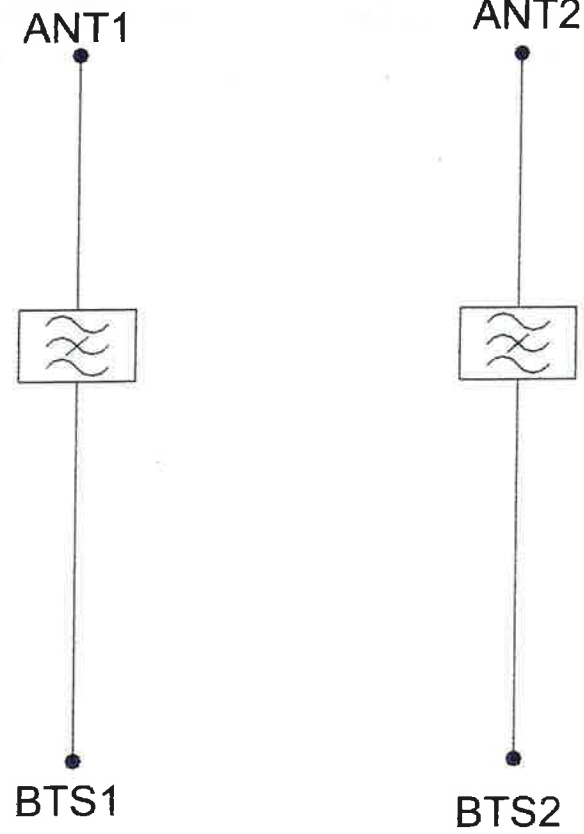
### TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS		
BAND NAME	700 PATH / 850 UPLINK PATH	850 DOWNLINK PATH
Passband	698 - 849MHz	869 - 891.5MHz
Insertion loss	0.1dB typical / 0.3dB maximum	0.5dB typical, 1.45dB maximum
Return loss	24dB typical, 18dB minimum	
Maximum input power (Per Port)	100W average	200W average and 66W per 5MHz
Rejection	53dB minimum @ 894.1 - 896.5MHz	
<b>ELECTRICAL</b>		
Impedance	50Ohms	
Intermodulation products	-160dBc maximum in UL Band (assuming 20MHz Signal), with 2 x 43dBm carriers -153dBc maximum with 2 x 43dBm	
<b>DC / AISG</b>		
Passband	0 - 13MHz	
Insertion loss	0.3dB maximum	
Return loss	15dB minimum	
Input voltage range	± 33V	
DC current rating	2A continuous, 4A peak	
Compliance	3GPP TS 25.461	
<b>ENVIRONMENTAL</b>		
For further details of environmental compliance, please contact Kaelus.		
Temperature range	-20°C to +60°C   -4°F to +140°F	
Ingress protection	IP67	
Altitude	2600m   8530ft	
Lightning protection	RF port: ±5kA maximum (8/20us), IEC 61000-4-5 – Unit must be terminated with some lightning protection circuits.	
MTBF	>1,000,000 hours	
Compliance	ETSI EN 300 019 class 4.1H, RoHS, NEBS GR-487-CORE	
<b>MECHANICAL</b>		
Dimensions H x D x W	269 x 277 x 80mm   10.60 x 10.90 x 3.15in (Excluding brackets and connectors)	
Weight	8.0 kg   17.6 lbs (no bracket)	
Finish	Powder coated, light grey (RAL7035)	
Connectors	RF: 4.3-10 (F) x 4	
Mounting	Optional pole/wall bracket supplied with two metal clamps 45-178mm diameter poles or custom bracket. See ordering information.	

## ORDERING INFORMATION

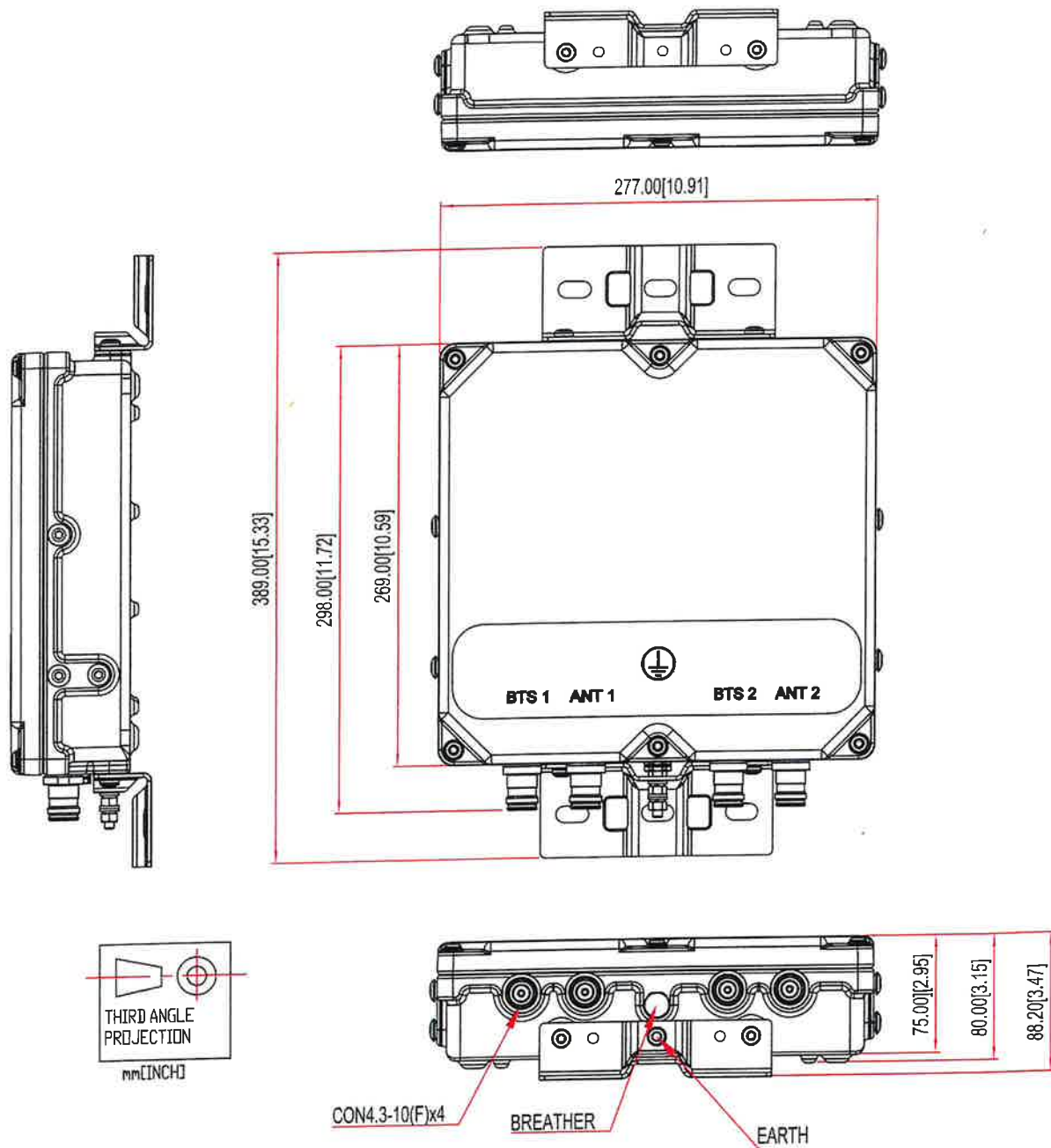
PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	CONNECTORS
BSF0020F3V1	TWIN, 2 in / 2 out	DC/AISG PASS NO BRACKET	4.3-10 (F)
BSF0020F3V1-1	TWIN, 2 in / 2 out	DC/AISG PASS	4.3-10 (F)
BSF0020F3V1-2	QUAD, 4 in / 4 out	DC/AISG PASS	4.3-10 (F)

**ELECTRICAL BLOCK DIAGRAM**





# MECHANICAL BLOCK DIAGRAM



# **ATTACHMENT 3**



**STRUCTURAL ANALYSIS REPORT  
FOR PROPOSED ANTENNA AND APPURTENANCE  
MODIFICATION ON A 153'± MONOPOLE TOWER  
NEW MILFORD, CONNECTICUT**

Prepared for  
Verizon Wireless



**Verizon Site Ref.  
467734; New Milford W CT**

Site Address: 86 Boardman Road, New Milford, Connecticut 06776

FUZE ID: 17123971

Location Code: 467734

Project Type: Filter Add

MDG Location Code: 5000243611

APT Filing No. CT141\_14040

Rev 0 August 18, 2023



**ALL-POINTS TECHNOLOGY CORPORATION, P.C.**

567 VAUXHALL STREET EXTENSION · SUITE 311 · WATERFORD, CT 06385 · PHONE 860-663-1697

**STRUCTURAL ANALYSIS REPORT  
153'± MONOPOLE TOWER  
NEW MILFORD, CONNECTICUT  
prepared for  
Verizon Wireless**

**EXECUTIVE SUMMARY:**

All-Points Technology Corporation, P.C. (APT) performed a structural analysis of an existing 153'± tapered steel monopole tower structure to support a proposed Verizon equipment modification.

The proposed Verizon antenna and appurtenance modification consists of the installation of two (2) new Kaelus KA-6030 mitigation filters. Reference can be made to the equipment table on the following page.

The results of this analysis indicate that the existing monopole tower structure meets the requirements of the 2021 International Building Code (IBC), as amended by the 2022 Connecticut State Building Code, and that ANSI/TIA-222-H standard with Verizon's proposed equipment modification.

The tower steel component usage is summarized in the table below:

Elevation/Component	Usage (%)
134.83'-154'	19%
89.16'-134.83'	77%
44.54'-89.16'	69%
1'-44.54'	72%
Base Plate	74%
Anchor Bolts	70%

**INTRODUCTION:**

A structural analysis of this communications tower was performed by APT for Verizon Wireless. The tower is located at 86 Boardman Road in New Milford, Connecticut.

The following information was utilized in the preparation of this analysis:

- Construction Drawings prepared by All-Points Technology Corporation, P.C. (APT), APT Filing No. CT141\_14040, marked Rev 0, dated 08/18/23.
- Antenna Mount Analysis Report and PMI Requirements prepared by Colliers Engineering & Design CT, P.C. (Project No. 23777083), dated 07/20/23.
- Post-Mod Antenna Mount Analysis Report, PMI Requirements and Mount Modification drawings, prepared by GPD Engineering, Project #2021740.467734.02, dated 6/30/2021.
- RFDS sheet provided by Verizon Wireless, latest version.
- Structural Analysis Report prepared by Centek Engineering, Centek Project No. 20074.50, dated 07/08/20.
- Structural Analysis Report prepared by Centek Engineering, Centek Project No. 14001.060, dated 12/1/2014.
- Tower & Foundation Drawings prepared by Engineered Endeavors, Incorporated (EEI) (Project No. 13200), marked Rev. 0, dated 02/28/05.

- Structure & Foundation Design Calculations prepared by Engineered Endeavors, Incorporated (EEI) (Project No. 13200-E01), dated 02/25/05.

The tower is a 153'±, 18-sided tapered steel monopole tower structure manufactured by Engineered Endeavors, Inc. (EEI). The pole features pine branches above the 80' elevation.

The analysis was conducted using the following antenna inventory (proposed equipment shown in **bold text**):

Carrier	Antenna and Appurtenance Make/Model	Elevation (AGL) <sup>2</sup>	Status	Mount Type	Coax/Feed-Line <sup>3</sup>
Motorola	2' HP dish, 3' HP dish	156'±	ETR	(2) 5' x 4-1/2" pipe mount	(2) 7/8"
Town	Motorola BA40-41-DIN	154'±	ETR	Valmont Uni-Tri bracket, (1) 5' x 4-1/2" pipe mounts	7/8"
Sprint	(3) Commscope DT465B-2XR & (3) RFS APXVSP18-C-A20 panels, (3) TD-RRH8x20-25 RRHs, (6) FD-RRH-2x50-800 RRHs, (3) ALU RRH4x40-1900 RRHs	150'±	ETR	(3) 10' T-arm sector mounts	(9) 1-5/8", (4) 1-1/4" hybrid
T-Mobile	(3) RFS APXVAARR24_43-U-NA20, (3) RFS APX16DWV-16DWVS & (3) Ericsson Air6449 B41 panels, (3) Radio 4424 RRHs, (3) Radio 4415 RRHs, (3) Radio 4449 RRHs, (3) TMA 8" x 10"	140'±	ETR	(3) 10' T-arm sector mounts (Reinforced)	(2) 6x12 hybrid
Verizon Wireless	<b>(2) Kaelus KA-6030 mitigation filters,</b> (3) Andrew LNX-8513DS-A1M, (6) JMA Wireless MX06FRO660-03 & (3) Samsung MT6407-77A panels, (3) Samsung B66a/B2a RRH-BRO49 (RFV01U-D1A) RRHs, (3) Samsung B13/B5 RRH-BR04C (RFV01UD2A) RRHs, <b>(1) Raycap DB-C1-12C-24AB-0Z OVP</b>	130'±	<b>P</b> ETR ETR ETR ETR ETR	(3) 10' T-arm sector mounts (Reinforced)	(6) 1-5/8", (1) 12x24 LI hybrid
AT&T	(3) Powerwave 7770.00, (2) Kathrein 800-10965, (1) Kathrein 800-10966 & (6) cci HPA-65R-BUU-H6 panels, (3) Powerwave LGP21401 TMAs, (3) Ericsson RRUS-11 RRHs, (6) Ericsson RRUS-32 RRHs, (3) Radio 4426 RRHs, (3) Radio 4478 RRHs, (3) Raycap DC6-48-60-18-8F "squid" D-boxes	120'±	ETR	(3) 10' T-arm sector mounts	(12) 1-5/8", (1) Fiber, (2) DC power

Notes:

1. ETR = Existing to Remain; ERL = Existing to be Relocated; P = Proposed.
2. Elevations refer to AGL.
3. All feed lines run inside the pole.

## **STRUCTURAL ANALYSIS:**

### **Methodology:**

This structural analysis has been prepared in accordance with the ANSI/TIA-222-H standard entitled "Structural Standard for Antenna Supporting Structures, Antennas and Small Wind Turbine Support Structures"; American Institute of Steel Construction (AISC) Manual of Steel Construction, and the 2021 International Building Code (IBC), as amended by the 2022 Connecticut State Building Code utilizing the following criteria:

- o Load Case 1: 115 mph (3-second gust), 0" ice
- o Load Case 2: 40 mph (3-second gust) w/ 1.0" ice thickness required
- o Load Case 3: 60 mph (3-second gust) (Service Load)
- o Structure Class: II
- o Exposure Category: C
- o Topographic Category: 1

### **Splice and Anchor Bolts:**

Connection bolts were evaluated under the reduced design criteria. All splice and anchor bolts were found to be adequately sized to support the proposed equipment.

### **Analysis Results:**

The analysis was conducted in accordance with the criteria outlined above with the aforementioned loading. The following table summarizes the results of the analysis:

Elevation/Component	Usage (%)
134.83'-154'	19%
89.16'-134.83'	77%
44.54'-89.16'	69%
1'-44.54'	72%
Base Plate	74%
Anchor Bolts	70%

### **Base Foundation:**

Evaluation of the existing base foundation was evaluated utilizing the aforementioned Tower & foundation Drawings and Calculations previously provided to APT. The existing foundation was determined to be adequately sized to support the proposed loads.

The calculated base reactions with the proposed equipment loading are indicated within the table below:

Load Effect	Calculated Reactions	Result
Compression	77.1 k	PASS
Total Shear	58.9 k	PASS
Overturning Moment	6,847 ft-k	PASS

**CONCLUSIONS AND SUGGESTIONS:**

In conclusion, our analysis indicates the 153'± monopole tower structure located at 86 Boardman Road in New Milford, Connecticut meets the requirements of the 2021 International Building Code (IBC), as amended by the 2022 Connecticut State Building Code, and the ANSI/TIA-222-H standard with Verizon's proposed equipment modification.

Sincerely,  
**All-Points Technology Corp. P.C.**



Michael S. Trodden, P.E.  
Senior Structural Engineer



Prepared by:  
**All-Points Technology Corp. P.C.**



Ali M. Adair  
Project Scientist

**LIMITATIONS:**

This report is based on the following:

1. Tower/structure is properly installed and maintained.
2. All members and components are in a non-deteriorated condition.
3. All required members are in place.
4. All bolts are in place and are properly tightened.
5. Tower/structure is in plumb condition.
6. All tower members were properly designed, detailed, fabricated, and installed and have been properly maintained since erection.
7. Material yield stress values as follows:
  - Monopole: 65 ksi
  - Base plate: 60 ksi
  - Anchor bolts: 75 ksi

All-Points Technology Corporation, P.C. (APT) is not responsible for any modifications completed prior to or hereafter which APT is not or was not directly involved. Modifications include but are not limited to:

1. Replacing or reinforcing bracing members.
2. Reinforcing members in any manner.
3. Adding or relocating antennas.
4. Installing antenna mounts or waveguide cables.
5. Extending tower.

APT hereby states that this document represents the entire report and that it assumes no liability for any factual changes that may occur after the date of this report. All representations, recommendations, and conclusions are based upon the information contained and set forth herein. If you are aware of any information which conflicts with that which is contained herein, or you are aware of any defects arising from original design, material, fabrication, or erection deficiencies, you should disregard this report and immediately contact APT. APT disclaims all liability for any representation, recommendation, or conclusion not expressly stated herein.



# *Appendix A*

## *Design Criteria*

Municipality	Basic Design Wind Speeds, $V$ (mph)				Allowable Stress Design Wind Speeds, $V_{ad}$ (mph)				Ground Snow Load $P_g$ (psf)	MCE Ground Accelerations		Wind-Borne Debris Region <sup>1</sup>		Hurricane- Prone Region
	Risk Cat. I	Risk Cat. II	Risk Cat. III	Risk Cat. IV	Risk Cat. I	Risk Cat. II	Risk Cat. III	Risk Cat. IV		$S_s$ (g)	$S_t$ (g)	Risk Cat. III Occup. I-2	Risk Cat. IV	
New Milford	110	115	125	130	85	89	97	101	35	0.198	0.055			
Newington	110	120	130	135	85	93	101	105	30	0.195	0.055			Yes
Newtown	110	120	130	130	85	93	101	101	30	0.209	0.055			Yes
Norfolk	105	115	125	130	81	89	97	101	40	0.165	0.054			
North Branford	115	125	135	135	89	97	105	105	30	0.204	0.054			Yes
North Canaan	105	115	125	130	81	89	97	101	40	0.164	0.054			
North Haven	110	120	130	135	85	93	101	105	30	0.204	0.054			Yes
North Stonington	120	130	140	140	93	101	108	108	30	0.186	0.052			Yes
Norwalk	110	120	130	135	85	93	101	105	30	0.240	0.056		Type B	Yes
Norwich	115	125	135	140	89	97	105	108	30	0.194	0.054			Yes
Old Lyme	120	130	135	140	93	101	105	108	30	0.201	0.053	Type B	Type B	Yes
Old Saybrook	120	130	135	140	93	101	105	108	30	0.202	0.053	Type B	Type B	Yes
Orange	110	120	130	135	85	93	101	105	30	0.201	0.054			Yes
Oxford	110	120	130	135	85	93	101	105	30	0.199	0.054			Yes
Plainfield	115	125	135	140	89	97	105	108	30	0.187	0.054			Yes
Plainville	110	120	130	135	85	93	101	105	35	0.191	0.055			Yes
Plymouth	110	120	125	130	85	93	97	101	35	0.185	0.054			Yes
Pomfret	115	125	130	135	89	97	101	105	40	0.182	0.055			Yes
Portland	110	120	130	135	85	93	101	105	30	0.208	0.056			Yes
Preston	120	125	135	140	93	97	105	108	30	0.191	0.053			Yes
Prospect	110	120	130	135	85	93	101	105	30	0.197	0.054			Yes
Punam	115	125	130	135	89	97	101	105	40	0.184	0.055			Yes
Redding	110	120	125	130	85	93	97	101	30	0.228	0.056			Yes
Ridgefield	110	120	125	130	85	93	97	101	30	0.243	0.057			Yes
Rocky Hill	110	120	130	135	85	93	101	105	30	0.200	0.055			Yes
Roxbury	110	120	125	130	85	93	97	101	35	0.196	0.054			Yes
Salem	115	125	135	140	89	97	105	108	30	0.205	0.055			Yes
Salisbury	105	115	125	130	81	89	97	101	40	0.116	0.054			
Scotland	115	125	135	135	89	97	105	105	30	0.188	0.054			Yes
Seymour	110	120	130	135	85	93	101	105	30	0.200	0.054			Yes
Sharon	105	115	125	130	81	89	97	101	40	0.171	0.054			
Shelton	110	120	130	135	85	93	101	105	30	0.203	0.054			Yes

## Ice

---

**Results:**

Ice Thickness: 1.00 in.  
Concurrent Temperature: 15 F  
Gust Speed 40 mph

**Data Source:** Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8

**Date Accessed:** Mon Jun 26 2023

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 500-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

---

The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided "as is" and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

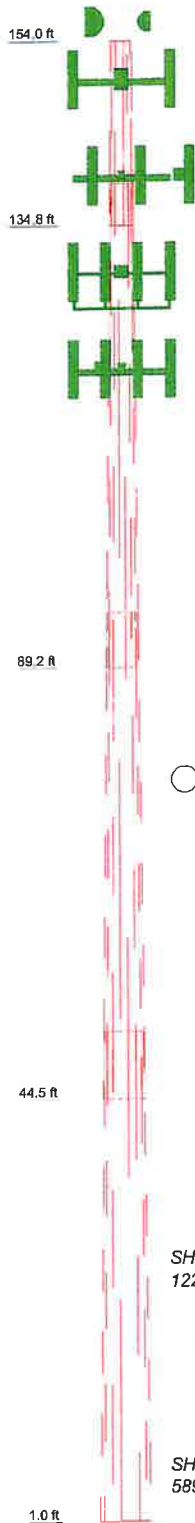
ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE 7 standard.

In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE 7 Hazard Tool.

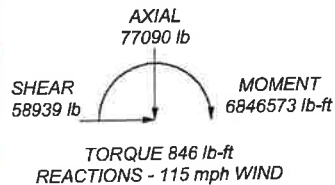
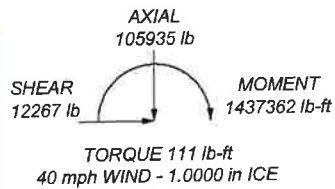
# *Appendix B*

## *Tower Schematic*

Section	1	2	3	4
Length (ft)	19.17	50.00	50.28	50.46
Number of Slides	18	18	18	18
Thickness (in)	0.1875	0.3130	0.5000	0.5630
Socket Length (ft)	4.33	5.67	6.92	
Top Dia (in)	25.2500	28.5753	38.8852	48.5745
Bot Dia (in)	30.0300	40.9100	51.2800	61.0000
Grade			A572-85	
Weight (lb)	1085.7	5819.6	12107.6	16637.6
				35630.5



ALL REACTIONS  
ARE FACTORED



## MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

**All Points Technology**  
567 Vauxhall St. Ext., Suite 3  
Waterford, CT 06385  
Phone: (860) 663-1697  
FAX: (860) 663-0935

Job: <b>153' Monopole Tower</b>	Project: <b>CT141_14040 New Milford</b>	Drawn by: <b>AMA</b>	App'd:
Client: <b>VzW Site #467734; New Milford West</b>	Code: <b>TIA-222-H</b>	Date: <b>08/18/23</b>	Scale: <b>NTS</b>
Path:			Dwg No. <b>E-1</b>

# *Appendix C*

## *Calculations*

<b>inxTower</b>  <b>All Points Technology</b> 567 Vauxhall St. Ext., Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935	<b>Job</b>	153' Monopole Tower	<b>Page</b>	1 of 10
	<b>Project</b>	CT141_14040 New Milford	<b>Date</b>	15:22:13 08/18/23
	<b>Client</b>	VzW Site #467734; New Milford West	<b>Designed by</b>	AMA

## Tower Input Data

The tower is a monopole.

This tower is designed using the TIA-222-H standard.

The following design criteria apply:

Tower base elevation above sea level: 1.00 ft.

Basic wind speed of 115 mph.

Risk Category II.

Exposure Category C.

Simplified Topographic Factor Procedure for wind speed-up calculations is used.

Topographic Category: 1.

Crest Height: 0.00 ft.

Nominal ice thickness of 1.0000 in.

Ice thickness is considered to increase with height.

Ice density of 56 pcf.

A wind speed of 40 mph is used in combination with ice.

Temperature drop of 50 °F.

Deflections calculated using a wind speed of 60 mph.

A non-linear (P-delta) analysis was used.

Pressures are calculated at each section.

Stress ratio used in pole design is 1.

Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

## Monopole Base Plate Data

Base Plate Data	
Base plate is square	
Base plate is grouted	
Anchor bolt grade	A615-75
Anchor bolt size	2.2500 in
Number of bolts	28
Embedment length	84.0000 in
$f_c$	4 ksi
Grout space	2.0000 in
Base plate grade	A572-60
Base plate thickness	3.0000 in
Bolt circle diameter	68.0000 in
Outer diameter	74.0000 in
Inner diameter	61.0000 in
Base plate type	Plain Plate

## Feed Line/Linear Appurtenances

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		$C_A A_A$ ft <sup>2</sup> /ft	Weight plf
7/8 (Town)	B	No	Yes	Inside Pole	154.00 - 5.00	3	No Ice	0.00	0.54
							1/2" Ice	0.00	0.54
							1" Ice	0.00	0.54
1-1/4" Hybrid	B	No	Yes	Inside Pole	150.00 - 5.00	4	No Ice	0.00	1.30

<b>tnxTower</b>  <b>All Points Technology</b> 567 Vauxhall St. Ext., Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935	<b>Job</b>	153' Monopole Tower	<b>Page</b>	2 of 10
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Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C <sub>A</sub> A <sub>A</sub> ft <sup>2</sup> /ft	Weight plf
fiber-power cable (Sprint)							1/2" Ice	0.00	1.30
1 5/8 (Sprint)	B	No	Yes	Inside Pole	150.00 - 5.00	9	1" Ice	0.00	1.30
							No Ice	0.00	1.04
							1/2" Ice	0.00	1.04
							1" Ice	0.00	1.04
6x12 hybrid (T-Mobile)	B	No	Yes	Inside Pole	140.00 - 5.00	2	No Ice	0.00	1.88
							1/2" Ice	0.00	1.88
							1" Ice	0.00	1.88
1 5/8 (Verizon Wireless)	B	No	Yes	Inside Pole	130.00 - 5.00	6	No Ice	0.00	1.04
							1/2" Ice	0.00	1.04
							1" Ice	0.00	1.04
12x24 LI (Verizon Wireless)	B	No	Yes	Inside Pole	130.00 - 5.00	1	No Ice	0.00	3.04
							1/2" Ice	0.00	3.04
							1" Ice	0.00	3.04
1 5/8 (AT&T)	B	No	Yes	Inside Pole	120.00 - 5.00	12	No Ice	0.00	1.04
							1/2" Ice	0.00	1.04
							1" Ice	0.00	1.04
5/16" Fiberoptic cable (AT&T)	C	No	Yes	Inside Pole	120.00 - 5.00	1	No Ice	0.00	0.25
							1/2" Ice	0.00	0.25
							1" Ice	0.00	0.25
3/4" power (AT&T)	C	No	Yes	Inside Pole	120.00 - 5.00	2	No Ice	0.00	0.58
							1/2" Ice	0.00	0.58
							1" Ice	0.00	0.58
3/8" safety cable	A	No	Yes	CaAa (Out Of Face)	154.00 - 5.00	1	No Ice	0.04	0.22
							1/2" Ice	0.14	0.83
							1" Ice	0.24	1.98

### Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C <sub>A</sub> A <sub>A</sub> Front ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Side ft <sup>2</sup>	Weight lb
5'x4 1/2" Pipe Mount (Motorola)	B	From Face	0.00 0.00 2.00	0.0000	156.00	No Ice	1.48	1.48	53.90
						1/2" Ice	2.08	2.08	69.94
						1" Ice	2.40	2.40	89.65
5'x4 1/2" Pipe Mount (Motorola)	C	From Face	0.00 0.00 2.00	0.0000	156.00	No Ice	1.48	1.48	53.90
						1/2" Ice	2.08	2.08	69.94
						1" Ice	2.40	2.40	89.65
BA40-41-DIN (Town)	A	From Leg	1.00 0.00 7.00	0.0000	154.00	No Ice	0.15	0.15	36.00
						1/2" Ice	0.22	0.22	38.07
						1" Ice	0.30	0.30	41.13
5'x4 1/2" Pipe Mount (Town)	A	From Leg	1.00 0.00 2.00	0.0000	154.00	No Ice	1.48	1.48	53.90
						1/2" Ice	2.08	2.08	69.94
						1" Ice	2.40	2.40	89.65
Valmont Uni-Tri bracket (Town)	A	None		0.0000	154.00	No Ice	1.75	1.75	29.00
						1/2" Ice	1.94	1.94	30.60
						1" Ice	2.13	2.13	32.30
DT465B-2XR (Sprint)	A	From Face	4.00 0.00 0.00	0.0000	150.00	No Ice	9.10	5.97	63.00
						1/2" Ice	9.56	6.43	121.00
						1" Ice	10.04	6.90	185.29
DT465B-2XR (Sprint)	B	From Face	4.00 0.00 0.00	0.0000	150.00	No Ice	9.10	5.97	63.00
						1/2" Ice	9.56	6.43	121.00
						1" Ice	10.04	6.90	185.29
DT465B-2XR	C	From Face	4.00	0.0000	150.00	No Ice	9.10	5.97	63.00



<b>tnxTower</b>  <b>All Points Technology</b> 567 Vauxhall St. Ext., Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935	<b>Job</b>	153' Monopole Tower	<b>Page</b>	3 of 10
	<b>Project</b>	CT141_14040 New Milford	<b>Date</b>	15:22:13 08/18/23
	<b>Client</b>	VzW Site #467734; New Milford West	<b>Designed by</b>	AMA

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C <sub>A</sub> A <sub>A</sub> Front ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Side ft <sup>2</sup>	Weight lb
(Sprint)			0.00			1/2" Ice	9.56	6.43	121.00
			0.00			1" Ice	10.04	6.90	185.29
APXVSPP18-C-A20	A	From Face	4.00	0.0000	150.00	No Ice	8.02	5.81	68.00
(Sprint)			0.00			1/2" Ice	8.48	6.27	119.99
			0.00			1" Ice	8.94	6.73	178.12
APXVSPP18-C-A20	B	From Face	4.00	0.0000	150.00	No Ice	8.02	5.81	68.00
(Sprint)			0.00			1/2" Ice	8.48	6.27	119.99
			0.00			1" Ice	8.94	6.73	178.12
APXVSPP18-C-A20	C	From Face	4.00	0.0000	150.00	No Ice	8.02	5.81	68.00
(Sprint)			0.00			1/2" Ice	8.48	6.27	119.99
			0.00			1" Ice	8.94	6.73	178.12
TD-RRH8x20-25	A	From Face	3.50	0.0000	150.00	No Ice	4.05	1.53	75.00
(Sprint)			0.00			1/2" Ice	4.30	1.71	102.14
			0.00			1" Ice	4.56	1.90	132.80
TD-RRH8x20-25	B	From Face	3.50	0.0000	150.00	No Ice	4.05	1.53	75.00
(Sprint)			0.00			1/2" Ice	4.30	1.71	102.14
			0.00			1" Ice	4.56	1.90	132.80
TD-RRH8x20-25	C	From Face	3.50	0.0000	150.00	No Ice	4.05	1.53	75.00
(Sprint)			0.00			1/2" Ice	4.30	1.71	102.14
			0.00			1" Ice	4.56	1.90	132.80
ALU RRH4x40-1900	A	From Face	3.50	0.0000	150.00	No Ice	3.26	2.49	90.00
(Sprint)			0.00			1/2" Ice	3.48	2.70	121.27
			0.00			1" Ice	3.72	2.91	156.18
ALU RRH4x40-1900	B	From Face	3.50	0.0000	150.00	No Ice	3.26	2.49	90.00
(Sprint)			0.00			1/2" Ice	3.48	2.70	121.27
			0.00			1" Ice	3.72	2.91	156.18
ALU RRH4x40-1900	C	From Face	3.50	0.0000	150.00	No Ice	3.26	2.49	90.00
(Sprint)			0.00			1/2" Ice	3.48	2.70	121.27
			0.00			1" Ice	3.72	2.91	156.18
(2) FD-RRH-2x50-800	A	From Face	3.50	0.0000	150.00	No Ice	2.13	1.79	53.00
(Sprint)			0.00			1/2" Ice	2.32	1.96	74.30
			0.00			1" Ice	2.51	2.14	98.61
(2) FD-RRH-2x50-800	B	From Face	3.50	0.0000	150.00	No Ice	2.13	1.79	53.00
(Sprint)			0.00			1/2" Ice	2.32	1.96	74.30
			0.00			1" Ice	2.51	2.14	98.61
(2) FD-RRH-2x50-800	C	From Face	3.50	0.0000	150.00	No Ice	2.13	1.79	53.00
(Sprint)			0.00			1/2" Ice	2.32	1.96	74.30
			0.00			1" Ice	2.51	2.14	98.61
EEL 10' T-Arm	A	None		0.0000	150.00	No Ice	10.54	10.54	336.00
(Sprint)						1/2" Ice	14.45	14.45	412.00
						1" Ice	18.36	18.36	488.00
EEL 10' T-Arm	B	None		0.0000	150.00	No Ice	10.54	10.54	336.00
(Sprint)						1/2" Ice	14.45	14.45	412.00
						1" Ice	18.36	18.36	488.00
EEL 10' T-Arm	C	None		0.0000	150.00	No Ice	10.54	10.54	336.00
(Sprint)						1/2" Ice	14.45	14.45	412.00
						1" Ice	18.36	18.36	488.00
APX16DWV-16DWVS	A	From Face	3.00	0.0000	140.00	No Ice	6.08	2.00	25.00
(T-Mobile)			6.00			1/2" Ice	6.44	2.33	56.34
			0.00			1" Ice	6.80	2.66	92.36
APX16DWV-16DWVS	B	From Face	3.00	0.0000	140.00	No Ice	6.08	2.00	25.00
(T-Mobile)			6.00			1/2" Ice	6.44	2.33	56.34
			0.00			1" Ice	6.80	2.66	92.36
APX16DWV-16DWVS	C	From Face	3.00	0.0000	140.00	No Ice	6.08	2.00	25.00
(T-Mobile)			6.00			1/2" Ice	6.44	2.33	56.34
			0.00			1" Ice	6.80	2.66	92.36
APXVAARR 24_43	A	From Face	3.00	0.0000	140.00	No Ice	20.24	8.89	154.00

<b>tnxTower</b>  <b>All Points Technology</b> 567 Vauxhall St. Ext., Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935	<b>Job</b>	153' Monopole Tower	<b>Page</b>	4 of 10
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	<b>Client</b>	VzW Site #467734; New Milford West	<b>Designed by</b>	AMA

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C <sub>A</sub> A <sub>A</sub> Front ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Side ft <sup>2</sup>	Weight lb
(T-Mobile)			-6.00			1/2" Ice 20.89	9.49	266.59
			0.00			1" Ice 21.54	10.09	387.72
APXVAARR 24_43 (T-Mobile)	B	From Face	3.00	0.0000	140.00	No Ice 20.24	8.89	154.00
			-6.00			1/2" Ice 20.89	9.49	266.59
			0.00			1" Ice 21.54	10.09	387.72
APXVAARR 24_43 (T-Mobile)	C	From Face	3.00	0.0000	140.00	No Ice 20.24	8.89	154.00
			-6.00			1/2" Ice 20.89	9.49	266.59
			0.00			1" Ice 21.54	10.09	387.72
AIR 6449 B41 (T-Mobile)	A	From Face	3.00	0.0000	140.00	No Ice 5.68	2.49	128.00
			-2.00			1/2" Ice 5.98	2.72	167.12
			0.00			1" Ice 6.29	2.95	210.46
AIR 6449 B41 (T-Mobile)	B	From Face	3.00	0.0000	140.00	No Ice 5.68	2.49	128.00
			-2.00			1/2" Ice 5.98	2.72	167.12
			0.00			1" Ice 6.29	2.95	210.46
AIR 6449 B41 (T-Mobile)	C	From Face	3.00	0.0000	140.00	No Ice 5.68	2.49	128.00
			-2.00			1/2" Ice 5.98	2.72	167.12
			0.00			1" Ice 6.29	2.95	210.46
Radio 4424 B25 (T-Mobile)	A	From Face	3.00	0.0000	140.00	No Ice 1.86	1.32	46.00
			-6.00			1/2" Ice 2.03	1.47	63.87
			0.00			1" Ice 2.20	1.62	84.50
Radio 4424 B25 (T-Mobile)	B	From Face	3.00	0.0000	140.00	No Ice 1.86	1.32	46.00
			-6.00			1/2" Ice 2.03	1.47	63.87
			0.00			1" Ice 2.20	1.62	84.50
Radio 4424 B25 (T-Mobile)	C	From Face	3.00	0.0000	140.00	No Ice 1.86	1.32	46.00
			-6.00			1/2" Ice 2.03	1.47	63.87
			0.00			1" Ice 2.20	1.62	84.50
Radio 4415 (T-Mobile)	A	From Face	3.00	0.0000	140.00	No Ice 1.64	0.68	50.00
			6.00			1/2" Ice 1.80	0.79	62.41
			0.00			1" Ice 1.97	0.91	77.18
Radio 4415 (T-Mobile)	B	From Face	3.00	0.0000	140.00	No Ice 1.64	0.68	50.00
			6.00			1/2" Ice 1.80	0.79	62.41
			0.00			1" Ice 1.97	0.91	77.18
Radio 4415 (T-Mobile)	C	From Face	3.00	0.0000	140.00	No Ice 1.64	0.68	50.00
			6.00			1/2" Ice 1.80	0.79	62.41
			0.00			1" Ice 1.97	0.91	77.18
Radio 4449 (T-Mobile)	A	From Face	3.00	0.0000	140.00	No Ice 1.65	1.16	80.00
			-6.00			1/2" Ice 1.81	1.30	96.16
			0.00			1" Ice 1.98	1.45	114.95
Radio 4449 (T-Mobile)	B	From Face	3.00	0.0000	140.00	No Ice 1.65	1.16	80.00
			-6.00			1/2" Ice 1.81	1.30	96.16
			0.00			1" Ice 1.98	1.45	114.95
Radio 4449 (T-Mobile)	C	From Face	3.00	0.0000	140.00	No Ice 1.65	1.16	80.00
			-6.00			1/2" Ice 1.81	1.30	96.16
			0.00			1" Ice 1.98	1.45	114.95
TMA 8" x 10" (T-Mobile)	A	From Face	3.00	0.0000	140.00	No Ice 0.67	0.26	12.00
			0.00			1/2" Ice 0.77	0.33	17.06
			0.00			1" Ice 0.88	0.41	23.67
TMA 8" x 10" (T-Mobile)	B	From Face	3.00	0.0000	140.00	No Ice 0.67	0.26	12.00
			0.00			1/2" Ice 0.77	0.33	17.06
			0.00			1" Ice 0.88	0.41	23.67
TMA 8" x 10" (T-Mobile)	C	From Face	3.00	0.0000	140.00	No Ice 0.67	0.26	12.00
			0.00			1/2" Ice 0.77	0.33	17.06
			0.00			1" Ice 0.88	0.41	23.67
EEI 10' T-Arm (T-Mobile)	A	None		0.0000	140.00	No Ice 10.54	10.54	336.00
						1/2" Ice 14.45	14.45	412.00
						1" Ice 18.36	18.36	488.00
EEI 10' T-Arm	B	None		0.0000	140.00	No Ice 10.54	10.54	336.00

<b>tnxTower</b>  <b>All Points Technology</b> 567 Vauxhall St. Ext., Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935	<b>Job</b>	153' Monopole Tower	<b>Page</b>	5 of 10
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	<b>Client</b>	VzW Site #467734; New Milford West	<b>Designed by</b>	AMA

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	CAA Front ft²	CAA Side ft²	Weight lb
(T-Mobile)						1/2" Ice 14.45	14.45	412.00
						1" Ice 18.36	18.36	488.00
EEI 10' T-Arm	C	None		0.0000	140.00	No Ice 10.54	10.54	336.00
(T-Mobile)						1/2" Ice 14.45	14.45	412.00
						1" Ice 18.36	18.36	488.00
Monopole Sector Stabilizer	A	None		0.0000	140.00	No Ice 9.00	9.00	35.00
(T-Mobile)						1/2" Ice 11.50	11.50	42.50
						1" Ice 14.00	14.00	50.00
(2) KA-6030 mitigation filter	A	From Face	4.00	0.0000	130.00	No Ice 0.96	0.29	17.60
(Verizon Wireless)			0.00			1/2" Ice 1.09	0.36	24.37
			0.00			1" Ice 1.22	0.45	32.93
LNX-8513DS-A1M	A	From Face	4.00	0.0000	130.00	No Ice 14.30	11.70	75.00
(Verizon Wireless)			0.00			1/2" Ice 14.88	12.26	177.00
			0.00			1" Ice 15.47	12.82	287.01
LNX-8513DS-A1M	B	From Face	4.00	0.0000	130.00	No Ice 14.30	11.70	75.00
(Verizon Wireless)			0.00			1/2" Ice 14.88	12.26	177.00
			0.00			1" Ice 15.47	12.82	287.01
LNX-8513DS-A1M	C	From Face	4.00	0.0000	130.00	No Ice 14.30	11.70	75.00
(Verizon Wireless)			0.00			1/2" Ice 14.88	12.26	177.00
			0.00			1" Ice 15.47	12.82	287.01
(2) JMA MX06FRO660-03	A	From Face	4.00	0.0000	130.00	No Ice 9.87	7.34	65.00
(Verizon Wireless)			0.00			1/2" Ice 10.34	7.78	133.84
			0.00			1" Ice 10.82	8.24	209.18
(2) JMA MX06FRO660-03	B	From Face	4.00	0.0000	130.00	No Ice 9.87	7.34	65.00
(Verizon Wireless)			0.00			1/2" Ice 10.34	7.78	133.84
			0.00			1" Ice 10.82	8.24	209.18
(2) JMA MX06FRO660-03	C	From Face	4.00	0.0000	130.00	No Ice 9.87	7.34	65.00
(Verizon Wireless)			0.00			1/2" Ice 10.34	7.78	133.84
			0.00			1" Ice 10.82	8.24	209.18
MT6407-77A	A	From Face	4.00	0.0000	130.00	No Ice 4.69	1.84	81.20
(Verizon Wireless)			0.00			1/2" Ice 4.98	2.06	110.44
			0.00			1" Ice 5.28	2.29	143.55
MT6407-77A	B	From Face	4.00	0.0000	130.00	No Ice 4.69	1.84	81.20
(Verizon Wireless)			0.00			1/2" Ice 4.98	2.06	110.44
			0.00			1" Ice 5.28	2.29	143.55
MT6407-77A	C	From Face	4.00	0.0000	130.00	No Ice 4.69	1.84	81.20
(Verizon Wireless)			0.00			1/2" Ice 4.98	2.06	110.44
			0.00			1" Ice 5.28	2.29	143.55
B2/B66A RRHBRO49	A	From Face	3.50	0.0000	130.00	No Ice 1.88	1.25	85.00
(RFV01U-D1A)			0.00			1/2" Ice 2.05	1.39	103.34
(Verizon Wireless)			0.00			1" Ice 2.22	1.54	124.47
B2/B66A RRHBRO49	B	From Face	3.50	0.0000	130.00	No Ice 1.88	1.25	85.00
(RFV01U-D1A)			0.00			1/2" Ice 2.05	1.39	103.34
(Verizon Wireless)			0.00			1" Ice 2.22	1.54	124.47
B2/B66A RRHBRO49	C	From Face	3.50	0.0000	130.00	No Ice 1.88	1.25	85.00
(RFV01U-D1A)			0.00			1/2" Ice 2.05	1.39	103.34
(Verizon Wireless)			0.00			1" Ice 2.22	1.54	124.47
B5/B13 RRHBRO4C	A	From Face	3.50	0.0000	130.00	No Ice 1.88	1.01	82.00
(RFV01UD2A)			0.00			1/2" Ice 2.05	1.14	98.43
(Verizon Wireless)			0.00			1" Ice 2.22	1.28	117.53
B5/B13 RRHBRO4C	B	From Face	3.50	0.0000	130.00	No Ice 1.88	1.01	82.00
(RFV01UD2A)			0.00			1/2" Ice 2.05	1.14	98.43
(Verizon Wireless)			0.00			1" Ice 2.22	1.28	117.53
B5/B13 RRHBRO4C	C	From Face	3.50	0.0000	130.00	No Ice 1.88	1.01	82.00
(RFV01UD2A)			0.00			1/2" Ice 2.05	1.14	98.43
(Verizon Wireless)			0.00			1" Ice 2.22	1.28	117.53
DB-C1-12X-24AB-0Z D-box	A	None		0.0000	130.00	No Ice 4.06	3.10	38.00

<b>tnxTower</b>  <b>All Points Technology</b> 567 Vauxhall St. Ext., Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935	<b>Job</b>	153' Monopole Tower	<b>Page</b>	6 of 10
	<b>Project</b>	CT141_14040 New Milford	<b>Date</b>	15:22:13 08/18/23
	<b>Client</b>	VzW Site #467734; New Milford West	<b>Designed by</b>	AMA

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C <sub>A</sub> A <sub>A</sub> Front ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Side ft <sup>2</sup>	Weight lb
(Verizon Wireless)						1/2" Ice	4.32	3.34	74.49
EEI 10' T-Arm w/ Reinforcements	A	None		0.0000	128.00	1" Ice	4.58	3.58	114.97
(Verizon Wireless)						No Ice	13.50	13.50	500.00
EEI 10' T-Arm w/ Reinforcements	C	None		0.0000	128.00	1/2" Ice	17.00	17.00	650.00
(Verizon Wireless)						1" Ice	20.50	20.50	800.00
EEI 10' T-Arm w/ Reinforcements	C	None		0.0000	128.00	No Ice	13.50	13.50	500.00
(Verizon Wireless)						1/2" Ice	17.00	17.00	650.00
EEI 10' T-Arm w/ Reinforcements	C	None		0.0000	128.00	1" Ice	20.50	20.50	800.00
(Verizon Wireless)						No Ice	13.50	13.50	500.00
7770.00	A	From Face	3.00	0.0000	120.00	1/2" Ice	17.00	17.00	650.00
(AT&T)			-2.00			1" Ice	20.50	20.50	800.00
			0.00			No Ice	5.51	2.93	35.00
7770.00	B	From Face	3.00	0.0000	120.00	1/2" Ice	5.87	3.27	67.63
(AT&T)			-2.00			1" Ice	6.23	3.63	105.06
			0.00			No Ice	5.51	2.93	35.00
7770.00	C	From Face	3.00	0.0000	120.00	1/2" Ice	5.87	3.27	67.63
(AT&T)			-2.00			1" Ice	6.23	3.63	105.06
			0.00			No Ice	5.51	2.93	35.00
(2) HPA-65R-BUU-H6	A	From Face	3.00	0.0000	120.00	1/2" Ice	5.87	3.27	67.63
(AT&T)			0.00			1" Ice	6.23	3.63	105.06
			0.00			No Ice	9.66	6.45	55.00
(2) HPA-65R-BUU-H6	B	From Face	3.00	0.0000	120.00	1/2" Ice	10.13	6.91	117.99
(AT&T)			0.00			1" Ice	10.61	7.38	187.38
			0.00			No Ice	9.66	6.45	55.00
(2) HPA-65R-BUU-H6	C	From Face	3.00	0.0000	120.00	1/2" Ice	10.13	6.91	117.99
(AT&T)			0.00			1" Ice	10.61	7.38	187.38
			0.00			No Ice	9.66	6.45	55.00
800-10965	A	From Face	3.00	0.0000	120.00	1/2" Ice	10.13	6.91	117.99
(AT&T)			2.00			1" Ice	10.61	7.38	187.38
			0.00			No Ice	13.81	5.83	109.00
800-10965	B	From Face	3.00	0.0000	120.00	1/2" Ice	14.35	6.32	185.53
(AT&T)			2.00			1" Ice	14.89	6.82	269.11
			0.00			No Ice	13.81	5.83	109.00
800-10966	C	From Face	3.00	0.0000	120.00	1/2" Ice	14.35	6.32	185.53
(AT&T)			2.00			1" Ice	14.89	6.82	269.11
			0.00			No Ice	17.36	7.50	117.00
LGP2140X TMA	A	From Face	3.00	0.0000	120.00	1/2" Ice	17.99	8.09	209.18
(AT&T)			0.00			1" Ice	18.63	8.69	309.51
			0.00			No Ice	1.08	0.36	20.00
LGP2140X TMA	B	From Face	3.00	0.0000	120.00	1/2" Ice	1.21	0.45	27.13
(AT&T)			0.00			1" Ice	1.35	0.56	36.14
			0.00			No Ice	1.08	0.36	20.00
LGP2140X TMA	C	From Face	3.00	0.0000	120.00	1/2" Ice	1.21	0.45	27.13
(AT&T)			0.00			1" Ice	1.35	0.56	36.14
			0.00			No Ice	1.08	0.36	20.00
Ericsson RRUS-11	A	From Face	1.00	0.0000	120.00	1/2" Ice	1.21	0.45	27.13
(AT&T)			2.00			1" Ice	1.35	0.56	36.14
			0.00			No Ice	2.79	1.02	55.00
Ericsson RRUS-11	B	From Face	1.00	0.0000	120.00	1/2" Ice	3.00	1.16	75.86
(AT&T)			2.00			1" Ice	3.21	1.30	99.77
			0.00			No Ice	2.79	1.02	55.00
Ericsson RRUS-11	C	From Face	1.00	0.0000	120.00	1/2" Ice	3.00	1.16	75.86
(AT&T)			2.00			1" Ice	3.21	1.30	99.77
			0.00			No Ice	2.79	1.02	55.00
(2) Ericsson RRUS-32	A	From Face	1.00	0.0000	120.00	1/2" Ice	3.00	1.16	75.86
						1" Ice	3.21	1.30	99.77
						No Ice	2.73	1.67	50.00

<b>tnxTower</b>  <b>All Points Technology</b> 567 Vauxhall St. Ext., Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935	Job	153' Monopole Tower	Page 7 of 10
	Project	CT141_14040 New Milford	Date 15:22:13 08/18/23
	Client	VzW Site #467734; New Milford West	Designed by AMA

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment	Placement  ft	C <sub>AA</sub> Front  ft <sup>2</sup>	C <sub>AA</sub> Side  ft <sup>2</sup>	Weight  lb
(AT&T)			2.00			1/2" Ice 2.95	1.86	70.00
			0.00			1" Ice 3.18	2.05	110.00
(2) Ericsson RRUS-32 (AT&T)	B	From Face	1.00	0.0000	120.00	No Ice 2.73	1.67	50.00
			2.00			1/2" Ice 2.95	1.86	70.00
			0.00			1" Ice 3.18	2.05	110.00
(2) Ericsson RRUS-32 (AT&T)	C	From Face	1.00	0.0000	120.00	No Ice 2.73	1.67	50.00
			2.00			1/2" Ice 2.95	1.86	70.00
			0.00			1" Ice 3.18	2.05	110.00
Radio 4426 (AT&T)	A	From Face	1.00	0.0000	120.00	No Ice 1.63	0.72	50.00
			2.00			1/2" Ice 1.79	0.84	62.72
			0.00			1" Ice 1.95	0.96	77.82
Radio 4426 (AT&T)	B	From Face	1.00	0.0000	120.00	No Ice 1.63	0.72	50.00
			2.00			1/2" Ice 1.79	0.84	62.72
			0.00			1" Ice 1.95	0.96	77.82
Radio 4426 (AT&T)	C	From Face	1.00	0.0000	120.00	No Ice 1.63	0.72	50.00
			2.00			1/2" Ice 1.79	0.84	62.72
			0.00			1" Ice 1.95	0.96	77.82
(2) Radio 4478 (AT&T)	A	From Face	1.00	0.0000	120.00	No Ice 1.86	1.06	65.00
			2.00			1/2" Ice 2.03	1.20	80.96
			0.00			1" Ice 2.20	1.34	99.56
(2) Radio 4478 (AT&T)	B	From Face	1.00	0.0000	120.00	No Ice 1.86	1.06	65.00
			2.00			1/2" Ice 2.03	1.20	80.96
			0.00			1" Ice 2.20	1.34	99.56
(2) Radio 4478 (AT&T)	C	From Face	1.00	0.0000	120.00	No Ice 1.86	1.06	65.00
			2.00			1/2" Ice 2.03	1.20	80.96
			0.00			1" Ice 2.20	1.34	99.56
Raycap DC6-48-60-18-8F squid (AT&T)	A	From Face	0.50	0.0000	120.00	No Ice 1.19	1.19	30.00
			0.00			1/2" Ice 1.37	1.37	44.34
			0.00			1" Ice 1.56	1.56	60.93
Raycap DC6-48-60-18-8F squid (AT&T)	B	From Face	0.50	0.0000	120.00	No Ice 1.19	1.19	30.00
			0.00			1/2" Ice 1.37	1.37	44.34
			0.00			1" Ice 1.56	1.56	60.93
Raycap DC6-48-60-18-8F squid (AT&T)	C	From Face	0.50	0.0000	120.00	No Ice 1.19	1.19	30.00
			0.00			1/2" Ice 1.37	1.37	44.34
			0.00			1" Ice 1.56	1.56	60.93
EEI 10' T-Arm (AT&T)	A	None		0.0000	120.00	No Ice 10.54	10.54	336.00
						1/2" Ice 14.45	14.45	412.00
						1" Ice 18.36	18.36	488.00
EEI 10' T-Arm (AT&T)	B	None		0.0000	120.00	No Ice 10.54	10.54	336.00
						1/2" Ice 14.45	14.45	412.00
						1" Ice 18.36	18.36	488.00
EEI 10' T-Arm (AT&T)	C	None		0.0000	120.00	No Ice 10.54	10.54	336.00
						1/2" Ice 14.45	14.45	412.00
						1" Ice 18.36	18.36	488.00
Pine branches large (EEI)	C	None		0.0000	150.00	No Ice 90.00	90.00	1500.00
						1/2" Ice 130.00	130.00	1900.00
						1" Ice 170.00	170.00	2300.00
Pine branches large (EEI)	C	None		0.0000	140.00	No Ice 90.00	90.00	1500.00
						1/2" Ice 130.00	130.00	1900.00
						1" Ice 170.00	170.00	2300.00
Pine branches large (EEI)	C	None		0.0000	130.00	No Ice 90.00	90.00	1500.00
						1/2" Ice 130.00	130.00	1900.00
						1" Ice 170.00	170.00	2300.00
Pine branches large (EEI)	C	None		0.0000	120.00	No Ice 90.00	90.00	1500.00
						1/2" Ice 130.00	130.00	1900.00
						1" Ice 170.00	170.00	2300.00
Pine branches large (EEI)	C	None		0.0000	110.00	No Ice 90.00	90.00	1500.00

<b>tnxTower</b>  <b>All Points Technology</b> 567 Vauxhall St. Ext., Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935	<b>Job</b>	153' Monopole Tower	<b>Page</b>	8 of 10
	<b>Project</b>	CT141_14040 New Milford	<b>Date</b>	15:22:13 08/18/23
	<b>Client</b>	VzW Site #467734; New Milford West	<b>Designed by</b>	AMA

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C <sub>A</sub> A <sub>A</sub> Front ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Side ft <sup>2</sup>	Weight lb
Pine branches large (EEI)	C	None		0.0000	100.00	1/2" Ice 130.00 1" Ice 170.00 No Ice 90.00	130.00 170.00 90.00	1900.00 2300.00 1500.00
Pine branches large (EEI)	C	None		0.0000	90.00	1/2" Ice 130.00 1" Ice 170.00 No Ice 90.00	130.00 170.00 90.00	1900.00 2300.00 1500.00
Pine branches large (EEI)	C	None		0.0000	80.00	1/2" Ice 130.00 1" Ice 170.00 No Ice 90.00	130.00 170.00 90.00	1900.00 2300.00 1500.00
						1/2" Ice 130.00 1" Ice 170.00	130.00 170.00	1900.00 2300.00

### Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft	Aperture Area ft <sup>2</sup>	Weight lb
2' HP dish	B	Paraboloid w/Shroud (HP)	From Leg	1.00 0.00 0.00	Worst		156.00	2.00	No Ice 3.14 1/2" Ice 3.41 1" Ice 3.68	50.00 67.50 85.00
3' HP dish	C	Paraboloid w/Shroud (HP)	From Leg	1.00 0.00 0.00	Worst		156.00	3.00	No Ice 7.07 1/2" Ice 7.47 1" Ice 7.86	75.00 113.33 153.33

### Solution Summary

### Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	154 - 134.83	24.482	50	1.3698	0.0012
L2	139.16 - 89.16	20.248	50	1.3437	0.0008
L3	94.83 - 44.54	9.217	50	0.9351	0.0003
L4	51.46 - 1	2.645	50	0.4808	0.0001

### Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
156.00	2' HP dish	50	24.482	1.3698	0.0012	38289
154.00	BA40-41-DIN	50	24.482	1.3698	0.0012	38289
150.00	DT465B-2XR	50	23.332	1.3665	0.0011	38289
140.00	APX16DWV-16DWVS	50	20.484	1.3467	0.0008	13890
130.00	(2) KA-6030 mitigation filter	50	17.721	1.2942	0.0006	9648
128.00	EEI 10' T-Arm w/ Reinforcements	50	17.182	1.2797	0.0006	9145
120.00	7770.00	50	15.081	1.2111	0.0005	7565



*tnxTower*

**All Points Technology**  
567 Vauxhall St. Ext., Suite 311  
Waterford, CT 06385  
Phone: (860) 663-1697  
FAX: (860) 663-0935

**Job** 153' Monopole Tower

Project	CT141_14040 New Milford
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<b>Client</b>	VzW Site #467734; New Milford West
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Designed by  
AMA

<i>Elevation</i>	<i>Appurtenance</i>	<i>Gov. Load Comb.</i>	<i>Deflection</i>	<i>Tilt</i>	<i>Twist</i>	<i>Radius of Curvature</i>
<i>ft</i>			<i>in</i>	<i>°</i>	<i>°</i>	<i>ft</i>
110.00	Pine branches large (EEL)	50	12.601	1.1078	0.0004	6222
100.00	Pine branches large (EEL)	50	10.313	0.9944	0.0003	5284
90.00	Pine branches large (EEL)	50	8.252	0.8807	0.0003	4867
80.00	Pine branches large (EEL)	50	6.437	0.7718	0.0002	4798

### Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	154 - 134.83	100.878	2	5.6491	0.0052
L2	139.16 - 89.16	83.447	2	5.5424	0.0034
L3	94.83 - 44.54	38.003	2	3.8581	0.0012
L4	51.46 - 1	10.907	24	1.9833	0.0004

### Critical Deflections and Radius of Curvature - Design Wind

<i>Elevation</i>	<i>Appurtenance</i>	<i>Gov. Load Comb.</i>	<i>Deflection</i>	<i>Tilt</i>	<i>Twist</i>	<i>Radius of Curvature</i>
<i>ft</i>			<i>in</i>	<i>°</i>	<i>°</i>	<i>ft</i>
156.00	2' HP dish	2	100.878	5.6491	0.0052	9495
154.00	BA40-41-DIN	2	100.878	5.6491	0.0052	9495
150.00	DT465B-2XR	2	96.145	5.6354	0.0047	9495
140.00	APX16DWV-16DWVS	2	84.419	5.5547	0.0035	3442
130.00	(2) KA-6030 mitigation filter	2	73.038	5.3385	0.0026	2383
128.00	EEl 10' T-Arm w/ Reinforcements	2	70.818	5.2788	0.0025	2257
120.00	7770.00	2	62.166	4.9964	0.0020	1863
110.00	Pine branches large (EEI)	2	51.946	4.5705	0.0016	1528
100.00	Pine branches large (EEI)	2	42.519	4.1026	0.0013	1295
90.00	Pine branches large (EEI)	2	34.025	3.6340	0.0011	1190
80.00	Pine branches large (EEI)	24	26.543	3.1844	0.0009	1171

### Base Plate Design Data

Plate Thickness	Number of Anchor Bolts	Anchor Bolt Size	Actual Allowable Ratio Bolt Tension lb	Actual Allowable Ratio Bolt Compression lb	Actual Allowable Ratio Plate Stress ksi	Actual Allowable Ratio Stiffener Stress ksi	Controlling Condition	Ratio
3.0000	28	2.2500	169851.11 243576.14 0.70	175354.23 404336.40 0.43	39.855 54.000 0.74		Plate	0.74

### Section Capacity Table

[illegible]

<b>tnxTower</b>  <b>All Points Technology</b> 567 Vauxhall St. Ext., Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935	<b>Job</b>	153' Monopole Tower	<b>Page</b>	10 of 10
	<b>Project</b>	CT141_14040 New Milford	<b>Date</b>	15:22:13 08/18/23
	<b>Client</b>	VzW Site #467734; New Milford West	<b>Designed by</b>	AMA

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	$\phi P_{allow}$ lb	% Capacity	Pass Fail
						Pole (L2)	76.8	Pass
						Base Plate	73.8	Pass
						<b>RATING =</b>	<b>76.8</b>	<b>Pass</b>

Program Version 8.1.1.0 - 6/3/2021 File:Z:/Shared/CT office/APT Files/VZ NE - 141 All Sites (fka CT)/New Milford W CT/New Milford W (Filter Add) - CT141\_14040/Engineering/Resources/Structure/Tower SA/Modeling/CT141\_14040 New Milford West.eri



**All-Points Technology Corp., P.C.**

567 Vauxhall St. Ext., Suite 311

Waterford, CT 06385

(860) 663-1697

Client: **Verizon Wireless**  
Job: **New Milford West**  
Calculated By: **A. Adair**

Site No.: **New Milford W CT**  
Job No.: **CT141\_14040**  
Date: **8/18/2023**

**Program assumes:**

Mat is square in plan view.  
Water table is below bottom of mat.  
Unit weight of concrete = 150 pcf  
Unit weight of soil = 100 pcf  
Monopole tower with center pier

**Information to be provided:**

Pier is round or square in plan dimension ("R" or "S")	Shape =	R
V = Base Shear	V =	58.9 kips
OTM = Overturning moment at base	OTM =	6847 ft-kips
OTM <sub>Total</sub> = Overturning Moment to be resisted	OTM <sub>Total</sub> =	7288.75 ft-kips
P = Dead load weight	P =	69.3 kips
H = Height from ground surface to top of mat (if buried)	H =	2.50 ft.
P <sub>M</sub> = Projection of pier above mat	P <sub>M</sub> =	3.50 ft.
y = Thickness of mat	y =	4.00 ft.
x = Width of mat	x =	32.00 ft.
d = Diameter of round pier	d =	7.5 ft.
S = Size of tension bars	S =	11
Mass of tower and appurtenances (below)		

**Results:**

<u>Component</u>	<u>Mass</u>	<u>Moment Arm</u>	<u>Moment Resist.</u>
Pier	20.9 kips	16 ft.	334.0 ft-kips
Overburden	201.8 kips	16 ft.	3228.9 ft-kips
Mat	553.0 kips	16 ft.	8847.4 ft-kips

Overturning Moment Resistance = 13519.06 ft-kips

Factor of Safety =

1.85

SATISFACTORY

Concrete Quantity =

168.9 c.y.



Colliers Engineering & Design CT, P.C.  
1055 Washington Boulevard  
Stamford, CT 06901  
203.324.0800  
peter.albano@collierseng.com

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## Antenna Mount Analysis Report and PMI Requirements

### Mount ReAnalysis

SMART Tool Project #: 10206407  
Colliers Engineering & Design CT, P.C. Project #: 23777083

July 20, 2023

#### Site Information

Site ID: 5000243611-VZW / NEW MILFORD W CT  
Site Name: NEW MILFORD W CT  
Carrier Name: Verizon Wireless  
Address: 86 Boardman Rd.  
New Milford, Connecticut 06776  
Litchfield County  
Latitude: 41.599411°  
Longitude: -73.437478°

#### Structure Information

Tower Type: 150-Ft Monopole  
Mount Type: 10.00-Ft T-Frame

FUZE ID # 17123971

#### Analysis Results

T-Frame: 79.1% Pass\*

**\*Antennas and equipment to be installed in compliance with PMI Requirements of this mount analysis.**

#### \*\*\*Contractor PMI Requirements:

Included at the end of this MA report

Available & Submitted via portal at <https://pmi.vzwsmart.com>

For additional questions and support, please reach out to:  
[pmisupport@colliersengineering.com](mailto:pmisupport@colliersengineering.com)

Report Prepared By: Prasanna Dhakal

Digitally signed by Derek Hartzell  
Date: 2023.07.20 08:48:16 -0700

STATE OF CONNECTICUT  
Derek Hartzell  
PROFESSIONAL ENGINEER

### **Executive Summary:**

The objective of this report is to determine the capacity of the antenna support mount at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

This analysis is inclusive of the mount structure only and does not address the structural capacity of the supporting structure. This mounting frame was not analyzed as an anchor attachment point for fall protection. All climbing activities are required to have a fall protection plan completed by a competent person.

### **Sources of Information:**

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	Verizon RFDS Site ID: 324472, dated October 27, 2020
Mount Mapping Report	Tower Engineering Professionals, Site ID: 20777375, dated May 20, 2021
Previous Post-Mod Antenna Mount Analysis Report	GPD Engineering And Architecture Professional Corporation, Project #: 2021740.467734.02, dated June 30, 2021
Antenna Mount Post-Modification Inspection Report	Maser Consulting Connecticut, Project #: 20777375A, dated February 18, 2022
Final Loading Configuration	Filter Add Scope Provided by Verizon Wireless

### **Analysis Criteria:**

Codes and Standards: ANSI/TIA-222-H  
2022 Connecticut State Building Code (CSBC), Effective October 1, 2022

Wind Parameters: Basic Wind Speed (Ultimate 3-sec. Gust),  $V_{ULT}$ : 115 mph  
Ice Wind Speed (3-sec. Gust): 40 mph  
Design Ice Thickness: 1.00 in  
Risk Category: II  
Exposure Category: C  
Topographic Category: 1  
Topographic Feature Considered: N/A  
Topographic Method: N/A  
Ground Elevation Factor,  $K_e$ : 0.979

Seismic Parameters:  $S_s$ : 0.198 g  
 $S_1$ : 0.055 g

Maintenance Parameters: Wind Speed (3-sec. Gust): 30 mph  
Maintenance Load,  $L_v$ : 250 lbs.  
Maintenance Load,  $L_m$ : 250 lbs.\*

\*Reduced as allowed per ANSI/TIA-222-H 16.9

Analysis Software: RISA-3D (V17)

### **Final Loading Configuration:**

The following equipment has been considered for the analysis of the mounts:

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
129.25	130.00	2	KAelus	KA-6030	Added
		6	JMA Wireless	MX06FRO660-03	Retained
		3	Samsung	MT6407-77A	
		1	Raycap	RVZDC-6627-PF-48	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		3	Andrew	LNX-8513DS-AIM	

It is acceptable to install up to any three (3) of the OVP model numbers listed below as required at any location other than the mount face without affecting the structural capacity of the mount. If OVP units are installed on the mount face, a mount re-analysis may be required unless replacing an existing OVP.

Model Number	Ports	AKA
DB-B1-6C-12AB-0Z	6	OVP-6
RVZDC-6627-PF-48	12	OVP-12

### **Standard Conditions:**

1. All engineering services are performed on the basis that the information provided to Colliers Engineering & Design CT, P.C. and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Colliers Engineering & Design CT, P.C. to verify deviation will not adversely impact the analysis.
2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping and reported in the Mount Mapping Report are assumed to be corrected and documented as part of the PMI process and are not considered in the mount analysis.

The mount analysis and the mount mapping are not a condition assessment of the mount. Proper maintenance and condition assessments are still required post analysis.

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.

6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Colliers Engineering & Design CT, P.C. is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
  - o Channel, Solid Round, Angle, Plate      ASTM A36 (Gr. 36)
  - o HSS (Rectangular)                              ASTM 500 (Gr. B-46)
  - o Pipe    ASTM A53 (Gr. B-35)
  - o Threaded Rod                                      F1554 (Gr. 36)
  - o Bolts    ASTM A325

**Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Colliers Engineering & Design CT, P.C.**

### **Analysis Results:**

<b>Component</b>	<b>Utilization %</b>	<b>Pass/Fail</b>
<i>Standoff Horizontal</i>	18.9%	<i>Pass</i>
<i>Face Horizontal</i>	12.4%	<i>Pass</i>
<i>Mount Pipe</i>	26.3%	<i>Pass</i>
<i>Mod Standoff Horizontal</i>	32.8%	<i>Pass</i>
<i>Mod Face Horizontal</i>	32.1%	<i>Pass</i>
<i>Mount Connection (Bolt)</i>	14.6%	<i>Pass</i>
<i>Mount Connection (Plate)</i>	79.1%	<i>Pass</i>

<b>Structure Rating – (Controlling Utilization of all Components)</b>	<b>79.1%</b>
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### **Mount Steel (EPA)a per ANSI/TIA-222-H Section 2.6.11.2:**

<b>Ice Thickness (In)</b>	<b>Mount Pipes Excluded</b>		<b>Mount Pipes Included</b>	
	<b>Front (EPA)a (Sq. Ft.)</b>	<b>Side (EPA)a (Sq. Ft.)</b>	<b>Front (EPA)a (Sq. Ft.)</b>	<b>Side (EPA)a (Sq. Ft.)</b>
0	11.8	3.0	18.8	10.0
0.5	15.2	4.3	25.0	14.1
1	18.4	5.0	30.9	17.6

Notes:

- (EPA)a values listed above may be used in the absence of more precise information
- (EPA)a values in the table above include 1 sector.
- Ka factors included in (EPA)a calculations

### **Requirements:**

The existing mounts are **SUFFICIENT** for the final loading configuration shown in attachment 2 and do not require modifications. Additional requirements are noted below.

--

If required, ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other. Separate review fees will apply.

### **Attachments:**

1. **Contractor Required Post Installation Inspection (PMI) Report Deliverables**
2. Antenna Placement Diagrams
3. Mount Photos
4. Mount Mapping Report (for reference only)
5. Analysis Calculations



## Mount Desktop – Post Modification Inspection (PMI) Report Requirements

### Documents & Photos Required from Contractor – **Passing Mount Analysis**

Passing Mount Analysis requires a PMI due to a modification in loading.

Electronic pdf version of this can be downloaded at <https://pmi.vzwsmart.com>.

For additional questions and support, please reach out to [pmisupport@colliersengineering.com](mailto:pmisupport@colliersengineering.com)

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MDG #: 5000243611

SMART Project #: 10206407

Fuze Project ID: 17123971

**Purpose** – to provide SMART Tool structural vendor the proper documentation in order to complete the required Mount Desktop review of the Post Modification Inspection Report.

- Contractor is responsible for making certain the photos provided as noted below provide confirmation that the installation was completed in accordance with this Passing Mount Analysis.
- Contractor shall relay any data that can impact the performance of the mount, this includes safety issues.

### **Base Requirements:**

- If installation will cause damage to the structure, the climbing facility, or safety climb if present or any installed system, SMART Tool vendor to be notified prior to install. Any special photos outside of the standard requirements will be indicated on the drawings.
- Provide “as built mount drawings” showing contractor’s name, contact information, preparer’s signature, and date. Any deviations from the drawings (Proposed modification) shall be shown. NOTE: If loading is different than what is conveyed in the passing mount analysis (MA) contact the SMART Tool vendor immediately.
- Each photo should be time and date stamped
- Photos should be high resolution.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope. If there is conflict, contact the SMART Tool engineer for recommendations.
- The PMI can be accessed at the following portal: <https://pmi.vzwsmart.com>

### **Photo Requirements:**

- *Photos taken at ground level*
  - Photo of Gate Signs showing the tower owner, site name, and number.
  - Overall tower structure after installation.
  - Photos of the mount after installation; if the mounts are at different rad elevations, pictures must be provided for all elevations that equipment was installed.
- *Photos taken at Mount Elevation*
  - Photos showing the safety climb wire rope above and below the mount prior to installation.
  - Photos showing the climbing facility and safety climb if present.
  - Photos showing each individual sector after installation. Each entire sector shall be in one photo to show the interconnection of members.

- These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
- Photos that show the model number of each antenna and piece of equipment installed per sector.

**Antenna & equipment placement and Geometry Confirmation:**

- The contractor shall certify that the antenna & equipment placement and geometry is in accordance with the sketch and table as included in the mount analysis and noted below.
- ☐ The contractor certifies that the photos support and the equipment on the mount is as depicted on the sketch and table included in this form and with the mount analysis provided.

OR

- ☐ The contractor notes that the equipment on the mount is not in accordance with the sketch and has noted the differences below and provided photo documentation of any alterations.

**Special Instructions / Validation as required from the MA or any other information the contractor deems necessary to share that was identified:**

**Issue:**

**Response:**

**Special Instruction Confirmation:**

- ☐ The contractor has read and acknowledges the above special instructions.
- ☐ All hardware listed in the Special Instructions above (if applicable) has been properly installed, and the existing hardware was inspected.
- ☐ The material utilized was as specified in the SMART Tool engineering vendor Special Instructions above (if applicable) and included in the material certification folder is a packing list or invoice for these materials.

OR

- ☐ The material utilized was approved by a SMART Tool engineering vendor as an “equivalent” and this approval is included as part of the contractor submission.



**Comments:**

--

**Contractor certifies that the climbing facility / safety climb was not damaged prior to starting work:**

☐ Yes      ☐ No

**Contractor certifies no new damage created during the current installation:**

☐ Yes      ☐ No

**Contractor to certify the condition of the safety climb and verify no damage when leaving the site:**

☐ Safety Climb in Good Condition      ☐ Safety Climb Damaged

**Certifying Individual:**

Company:	
Employee Name:	
Contact Phone:	
Email:	
Date:	

Sector: A

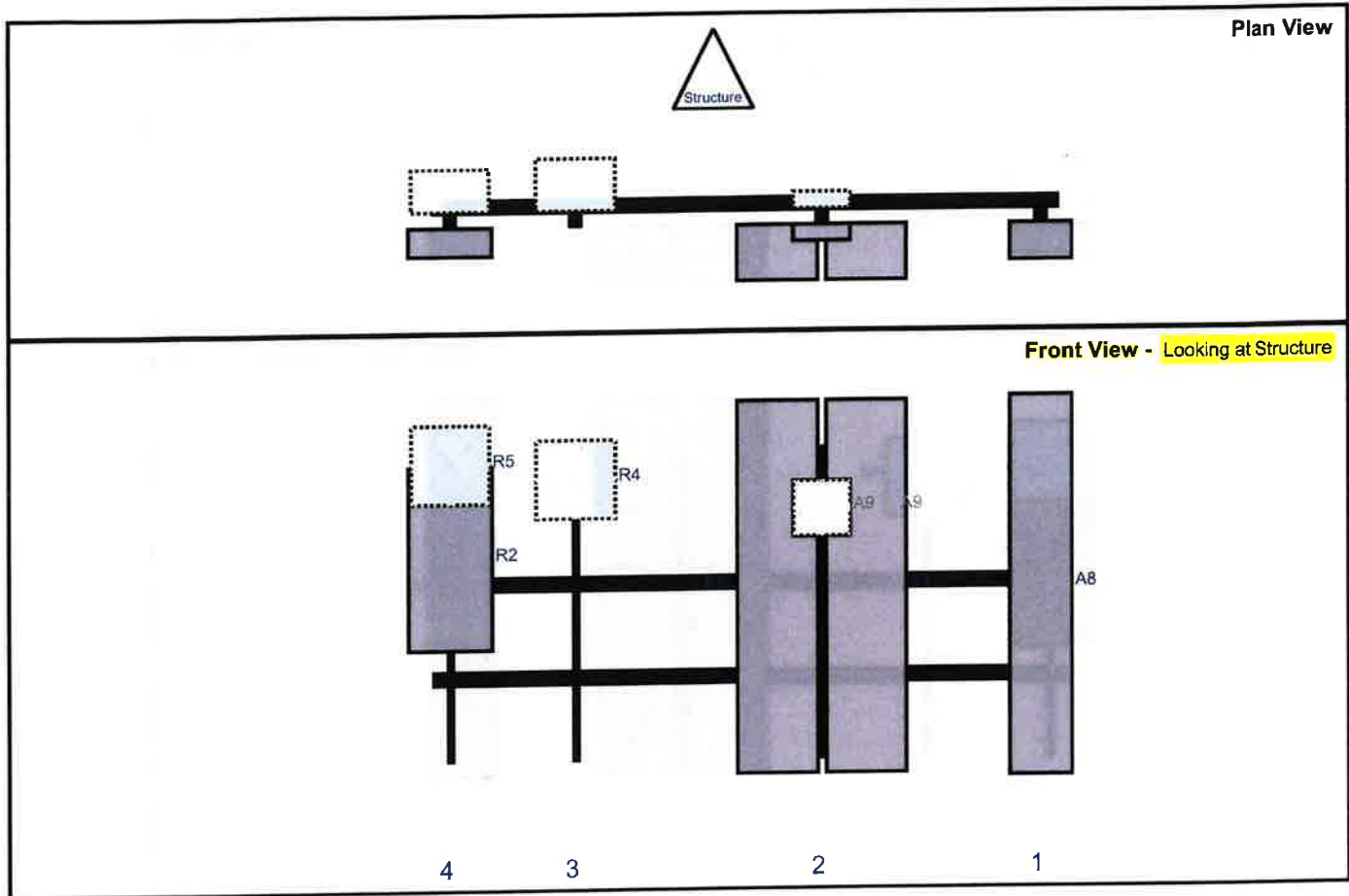
7/19/2023

Structure Type: Monopole

10206407

Mount Elev: 129.25

Page: 1



Ref#	Model	Height (in)	Width (in)	H Dist Fm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A8	LNx-8513DS-AIM	72.7	11.9	116.5	1	a	Front	27	0	Retained	02/11/2022
A1	MX06FRO660-03	71.3	15.4	74.5	2	a	Front	27	8.5	Retained	02/11/2022
A1	MX06FRO660-03	71.3	15.4	74.5	2	b	Front	27	-8.5	Retained	02/11/2022
A9	KA-6030	10.6	10.9	74.5	2	a	Front	12	0	Added	
A9	KA-6030	10.6	10.9	74.5	2	b	Behind	12	0	Added	
R4	B2/B66A RRH-BR049	15	15	27.5	3	a	Behind	6	0	Retained	02/11/2022
R2	MT6407-77A	35.1	16.1	3.5	4	a	Front	21	0	Retained	02/11/2022
R5	B5/B13 RRH-BR04C	15	15	3.5	4	a	Behind	3	0	Retained	02/11/2022
S1	RVZDC-6627-PF-48	29.5	16.5		Member					Retained	02/11/2022

Structure: 5000243611-VZW - NEW MILFORD W CT

Sector: B

7/19/2023

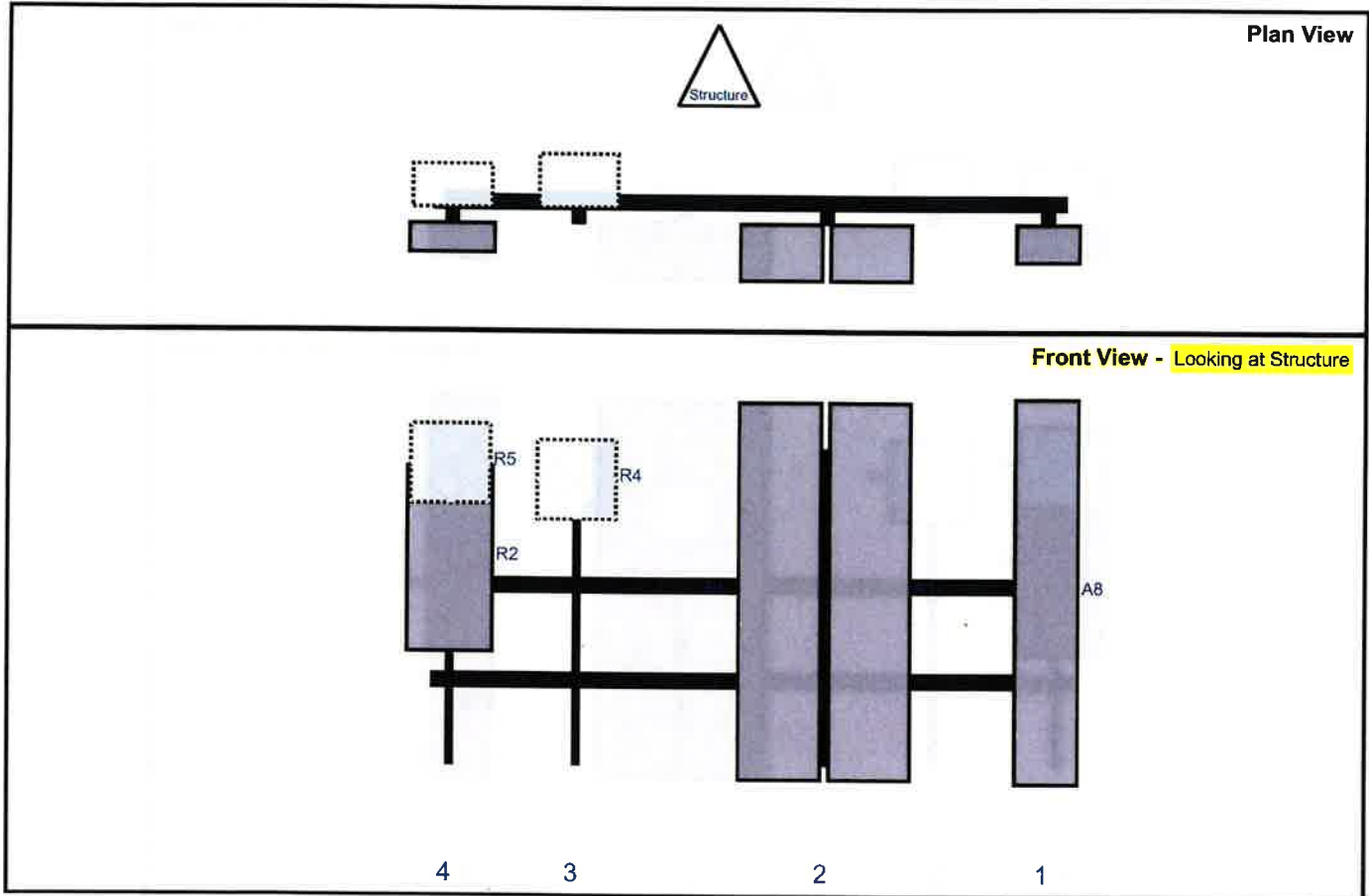
Structure Type: Monopole

10206407



Mount Elev: 129.25

Page: 2



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A8	LNx-8513DS-AIM	72.7	11.9	116.5	1	a	Front	27	0	Retained	02/11/2022
A1	MX06FRO660-03	71.3	15.4	74.5	2	a	Front	27	8.5	Retained	02/11/2022
A1	MX06FRO660-03	71.3	15.4	74.5	2	b	Front	27	-8.5	Retained	02/11/2022
R4	B2/B66A RRH-BR049	15	15	27.5	3	a	Behind	6	0	Retained	02/11/2022
R2	MT6407-77A	35.1	16.1	3.5	4	a	Front	21	0	Retained	02/11/2022
R5	B5/B13 RRH-BR04C	15	15	3.5	4	a	Behind	3	0	Retained	02/11/2022

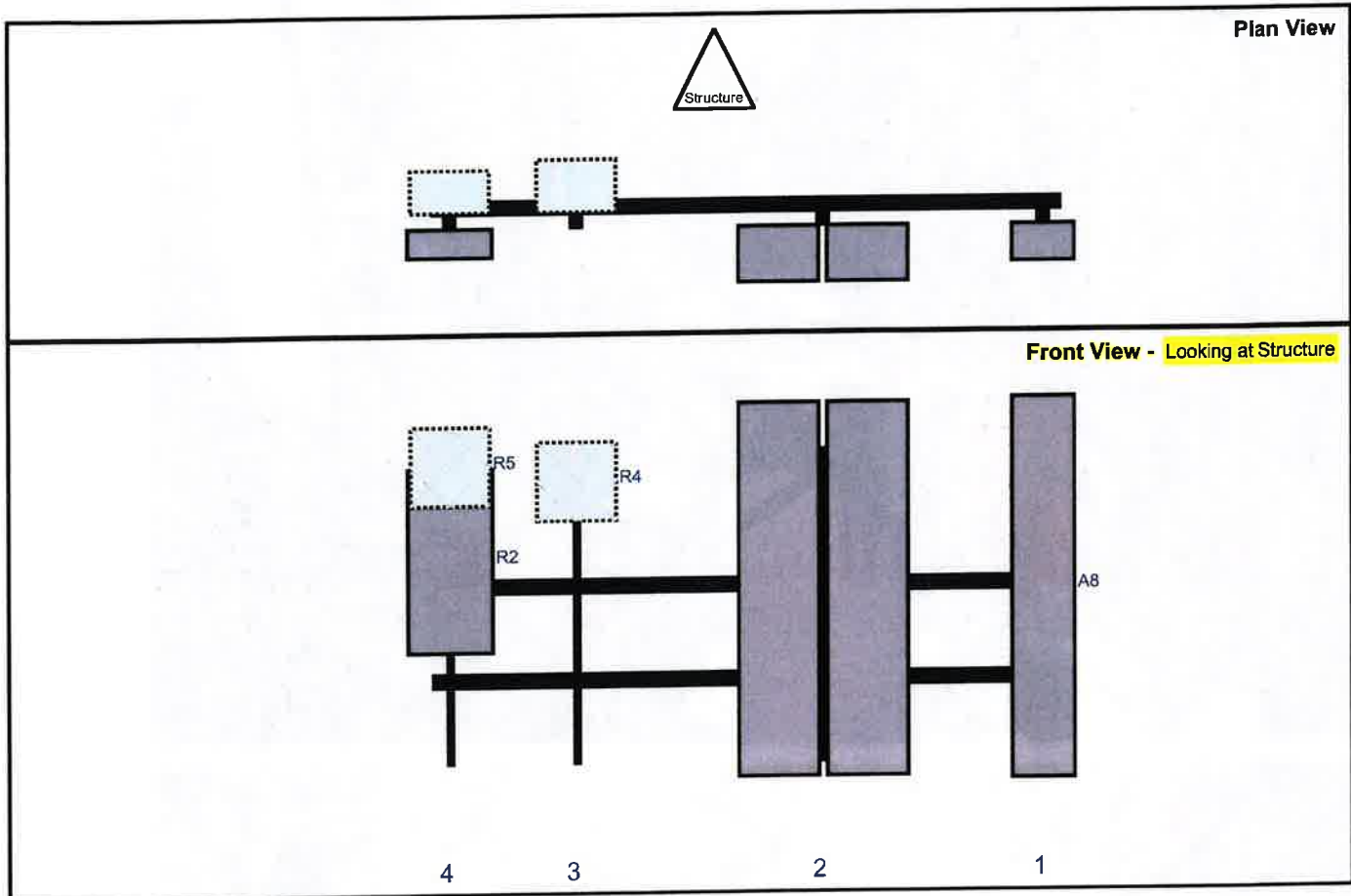
Sector: C

Structure Type: Monopole

10206407

Mount Elev: 129.25

Page: 3



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A8	LNx-8513DS-AIM	72.7	11.9	116.5	1	a	Front	27	0	Retained	02/11/2022
A1	MX06FRO660-03	71.3	15.4	74.5	2	a	Front	27	8.5	Retained	02/11/2022
A1	MX06FRO660-03	71.3	15.4	74.5	2	b	Front	27	-8.5	Retained	02/11/2022
R4	B2/B66A RRH-BR049	15	15	27.5	3	a	Behind	6	0	Retained	02/11/2022
R2	MT6407-77A	35.1	16.1	3.5	4	a	Front	21	0	Retained	02/11/2022
R5	B5/B13 RRH-BR04C	15	15	3.5	4	a	Behind	3	0	Retained	02/11/2022









### Antenna Mount Mapping Form (PATENT PENDING)

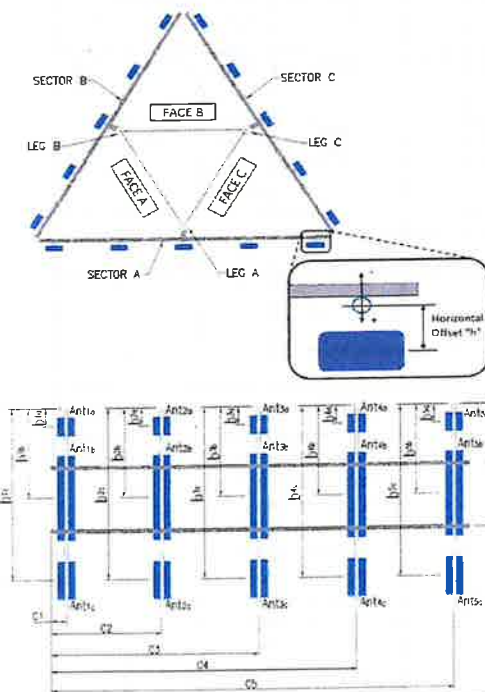
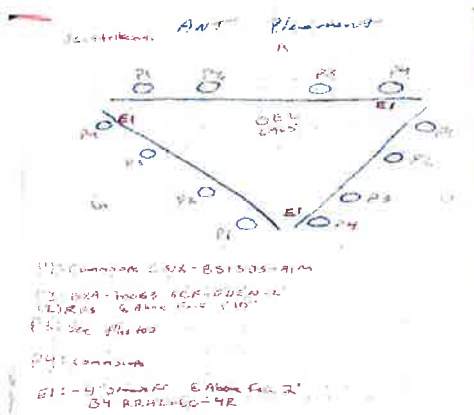
ECT II

N/A

<b>Tower Owner:</b>	Unknown
<b>Site Name:</b>	New Milford West
<b>Site Number or ID:</b>	20777375
<b>Mapping Contractor:</b>	TEP

Mapping Date:	5/20/2021
Tower Type:	Other
Tower Height (FL):	150
Mount Elevation (FL):	130

This antenna mapping form is the property of TES and under PATENT PENDING. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is prohibited except by express written permission of TES. All means and methods are the responsibility of the contractor and the work shall be compliant with ANSI/ASSE A 10.48, OSHA, FCC, FAA and other safety requirements that may apply. TES is not warranting the usability of the safety climb as it must be assessed prior to each use in compliance with OSHA requirements.



### Antenna Layout (Looking Out From Tower)

### Mount Pipe Configuration and Geometries [Unit = Inches]

Mount Pipe Configuration and Geometries [Unit = Inches]							
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "y"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "y"	Horizontal Offset "C1, C2, C3, etc."
A1	2.4"Øx0.154"x5'-0"	44.00	3.50	C1	2.4"Øx0.154"x5'-0"	44.00	3.50
A2	2.4"Øx0.154"x5'-0"	44.00	27.50	C2	2.4"Øx0.154"x5'-0"	44.00	27.50
A3	2.4"Øx0.154"x6'-0"	46.00	74.50	C3	2.4"Øx0.154"x6'-0"	46.00	74.50
A4	2.4"Øx0.154"x5'-0"	44.50	116.50	C4	2.4"Øx0.154"x5'-0"	44.50	116.50
A5				C5			
A6				C6			
B1	2.4"Øx0.154"x5'-0"	44.00	3.50	D1			
B2	2.4"Øx0.154"x5'-0"	44.00	27.50	D2			
B3	2.4"Øx0.154"x6'-0"	46.00	74.50	D3			
B4	2.4"Øx0.154"x5'-0"	44.50	116.50	D4			
B5				D5			
B6				D6			
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :							0.00
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :							60
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :							126
Please enter additional information or comments below.							
Coax: (12) 1 5/8" FH, (1) 1 1/2"Ø Hybrid							
Tower Base Width at Mount Elev. (ft.):		Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):					23.5

[illegible]

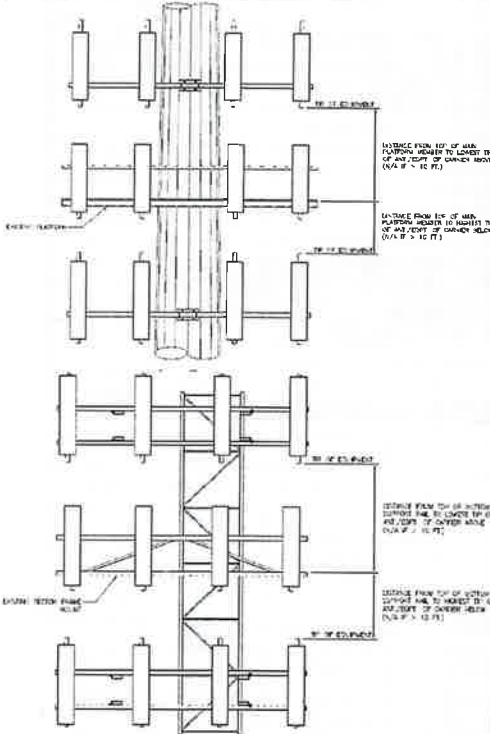
Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector		Sector B										
Sector A:	60.00	Deg	Leg A:		Deg	Ant <sub>1a</sub>										
Sector B:	180.00	Deg	Leg B:		Deg	Ant <sub>1b</sub>	LNK-8513DS-AIM	11.90	7.10	72.70	} 1 5/8" F	132	20.00	4.00	10.00	66-67
Sector C:	300.00	Deg	Leg C:		Deg	Ant <sub>1c</sub>	RFS Diplexor	6.25	1.00	4.75		131.667	24.00	2.00		68-70
Sector D:		Deg	Leg D:		Deg	Ant <sub>1b</sub>	BXA-70063 6CF-EDIN	11.30	6.00	71.00	} 1 5/8" F	130.917	33.00	6.50	20.00	46-47
Climbing Facility Information						Ant <sub>2c</sub>	RFS Diplexor					131.667	24.00	-2.00		68-70
Location:	N/A	Deg	N/A			Ant <sub>3a</sub>										
Climbing Facility	Corrosion Type:	N/A				Ant <sub>3b</sub>	HBXX-6517DS-A2M	12.00	6.50	75.00	} 1 5/8" F	131.333	30.00	5.50	20.00	46-47
	Access:	N/A				Ant <sub>3c</sub>										
	Condition:	N/A				Ant <sub>4a</sub>										
						Ant <sub>4b</sub>	HBXX-6517DS-A2M	12.00	6.50	75.00	} 1 5/8" F	132.042	20.00	5.50	10.00	46-47
						Ant <sub>4c</sub>	B4 RRH2x60-4R	10.60	5.70	36.60		132.042	20.00			46-47
						Ant <sub>5a</sub>										
						Ant <sub>5b</sub>										
						Ant <sub>5c</sub>										
						Ant on Standoff										
						Ant on Standoff										
						Ant on Tower										
						Ant on Tower										
Sector C																
						Ant <sub>1a</sub>										
						Ant <sub>1b</sub>	LNK-8513DS-AIM	11.90	7.10	72.70	} 1 5/8" F	132	20.00	4.00	10.00	86
						Ant <sub>1c</sub>										
						Ant <sub>2a</sub>	RFS Diplexor	6.25	1.00	4.75		131.667	24.00	2.00		48-50
						Ant <sub>2b</sub>	BXA-70063 6CF-EDIN	11.30	6.00	71.00	} 1 5/8" F	130.917	33.00	6.50	20.00	48-50
						Ant <sub>2c</sub>	RFS Diplexor					131.667	24.00	-2.00		48-50
						Ant <sub>3a</sub>										
						Ant <sub>3b</sub>	HBXX-6517DS-A2M	12.00	6.50	75.00	} 1 5/8" F	131.333	30.00	5.50	20.00	48-50
						Ant <sub>3c</sub>										
						Ant <sub>4a</sub>										
						Ant <sub>4b</sub>	HBXX-6517DS-A2M	12.00	6.50	75.00	} 1 5/8" F	132.042	20.00	5.50	10.00	48-50
						Ant <sub>4c</sub>	B4 RRH2x60-4R	10.60	5.70	36.60		132.042	20.00			85
						Ant <sub>5a</sub>										
						Ant <sub>5b</sub>										
						Ant <sub>5c</sub>										
						Ant on Standoff										
						Ant on Standoff										
						Ant on Tower										
						Ant on Tower										
Sector D																
						Ant <sub>1a</sub>										
						Ant <sub>1b</sub>										
						Ant <sub>1c</sub>										
						Ant <sub>2a</sub>										
						Ant <sub>2b</sub>										
						Ant <sub>2c</sub>										
						Ant <sub>3a</sub>										
						Ant <sub>3b</sub>										
						Ant <sub>3c</sub>										
						Ant <sub>4a</sub>										
						Ant <sub>4b</sub>										
						Ant <sub>4c</sub>										
						Ant <sub>5a</sub>										
						Ant <sub>5b</sub>										
						Ant <sub>5c</sub>										
						Ant on Standoff										
						Ant on Standoff										
						Ant on Tower										
						Ant on Tower										

ANTENNA ARRAY

TOWER LEG

DISTANCE FROM TOP OF MAIN SUPPORT FRAME TO CENTER OF ANTENNA ARRAY (N/A IF > 10 FT)

DISTANCE FROM TOP OF MAIN SUPPORT FRAME TO CENTER OF ANTENNA ARRAY (N/A IF > 10 FT)



Observed Safety and Structural Issues During the Mount Mapping		
Issue #	Description of Issue	Photo #



1		
2		
3		
4		
5		
6		
7		
8		

#### Mapping Notes

1. Please report any visible structural or safety issues observed on the antenna mounts (Damaged members, loose connections, tilting mounts, safety climb issues, etc.)
2. If the thickness of the existing pipes or tubing can't be obtained from a general tool (such as Caliper), please use an ultrasonic measurement tool (thickness gauge) to measure the thickness.
3. Please create all required detail sketches of the mounts and insert them into the "Sketches" tab.
4. Please measure and enter the bolt sizes and types under the Members Box in the spreadsheet of the mount type.
5. Take and label the photos of the tower, mounts, connections, antennas and all measurements. Minimum 50 photos are required.
6. Please measure and report the size and length of all existing antenna mounting pipes.
7. Please measure and report the antenna information for all sectors.
8. Don't delete or rearrange any sheet or contents of any sheet from this mapping form.

#### Standard Conditions

1. Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping are to be reported in this mapping. However, this mount mapping is not a condition assessment of the mount.



## Antenna Mount Mapping Form (PATENT PENDING)

FCC #

N/A

Tower Owner: Unknown

Site Name: New Milford West

Site Number or ID: 20777375

Mapping Contractor: TEP

Mapping Date:

5/20/2021

Tower Type:

Other

Tower Height (FT):

150

Mount Elevation (FT):

130

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## Please Insert Sketches of the Antenna Mount

New Milford West

Kennedy  
Bill

5-20-21

Combo: 5000

VIEW MT Mapping

MT E: 130°

MT Standoff: 3'1"

A Free Az: @ 60°

Coils (All inside)

(12) 2" Ø FH (1) Per. Ant

(1) 1 1/2" Ø FH

Separation from MT Below (ATT): 9'2"

Separation from Mt Above (T-Mobile): 1'2"

Arm/Collar

Collar: 1 1/2" x 1 1/2" x 1 1/2"  
(2) 1 1/2" Ø x 1 1/2" x 1 1/2"

2'10"

Gap b/w  
Collar: 9"

1'1"

PL 10 x 6 x 1/2"  
(4) 3/4" bolts  
3" c-c  
8" c-c

HSS 4 x 4 x 1/4"

PL 4 x 5 x 1/2" x 2'5"

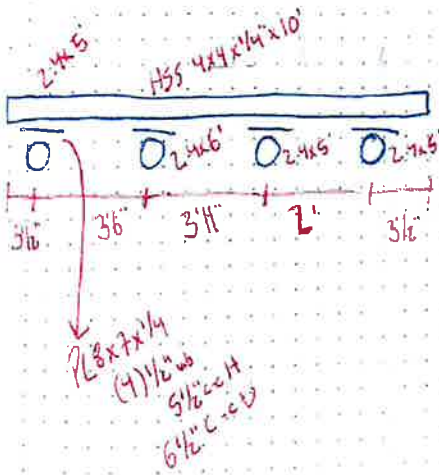
3

PL 1 x 1 x 1/2"  
(4) 3/4" x 2 1/2" c-c  
w/ 3/4" x 1/2" x 1/2"6" c-c  
9 1/2" c-c between  
x's1) 4 x 4 (2) 5/8" x 3"  
5 1/2" c-c

2) PL 10 x 9 1/4 x 1/4 w/ 1/4 x 1/2"

3) PL 9 1/2 x 1 1/2 x 1/2 (4) 3/4" 12 1/2" c-c H x 7" c-c V  
(4) 5/16" 1/4 x 3/8 x 1/4"

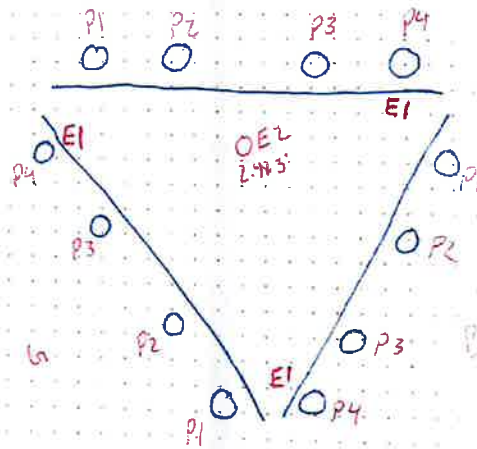
Face



ANT Placement

E2: strike orb

A.



P1: Commscope CNX-8513DS-AIM

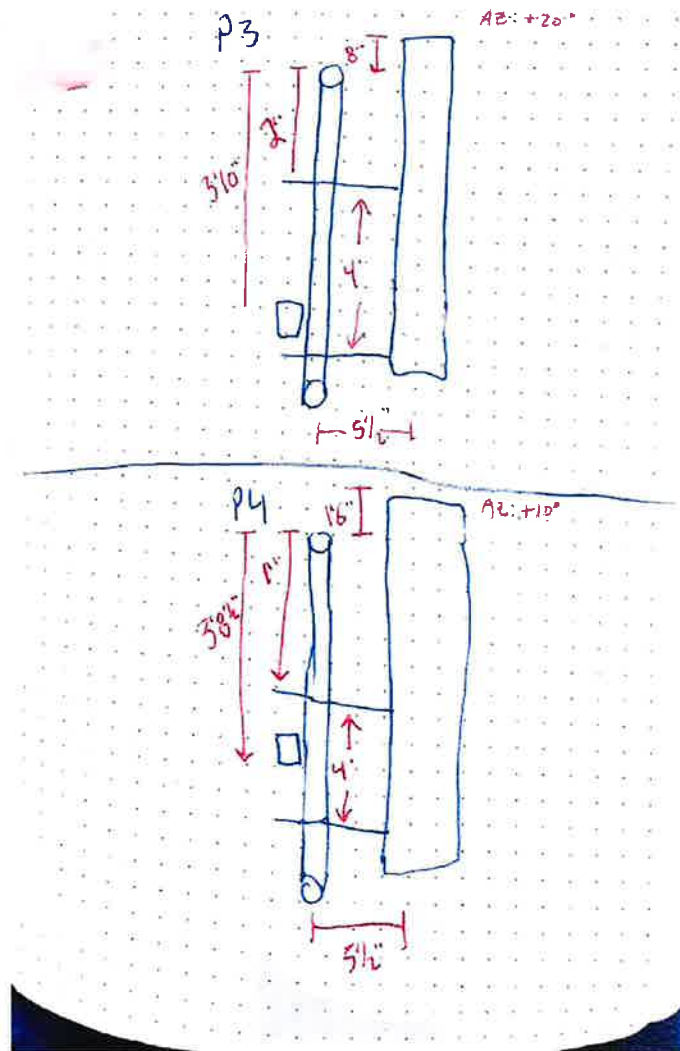
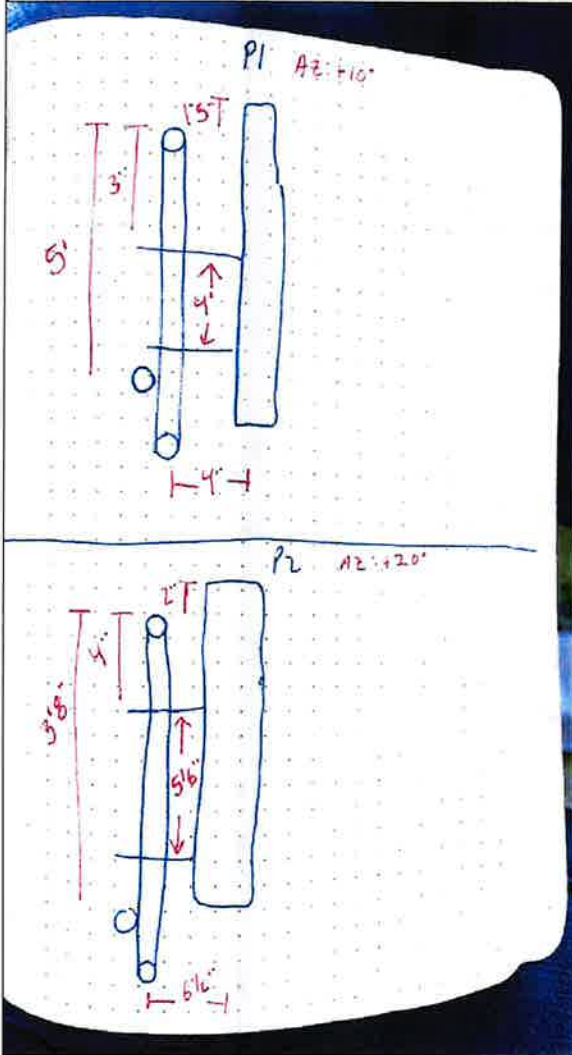
P2: BXA-70063 GCF-EDIN-L

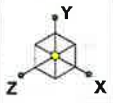
(2) RFS @ Above Face 1'10"

P3: see photos

P4: Commscope

E1: -4' strike orb @ Above Face 2'  
B4 RRHZx60-4R





Envelope Only Solution

Colliers Engineering & De...

Project # 23777083

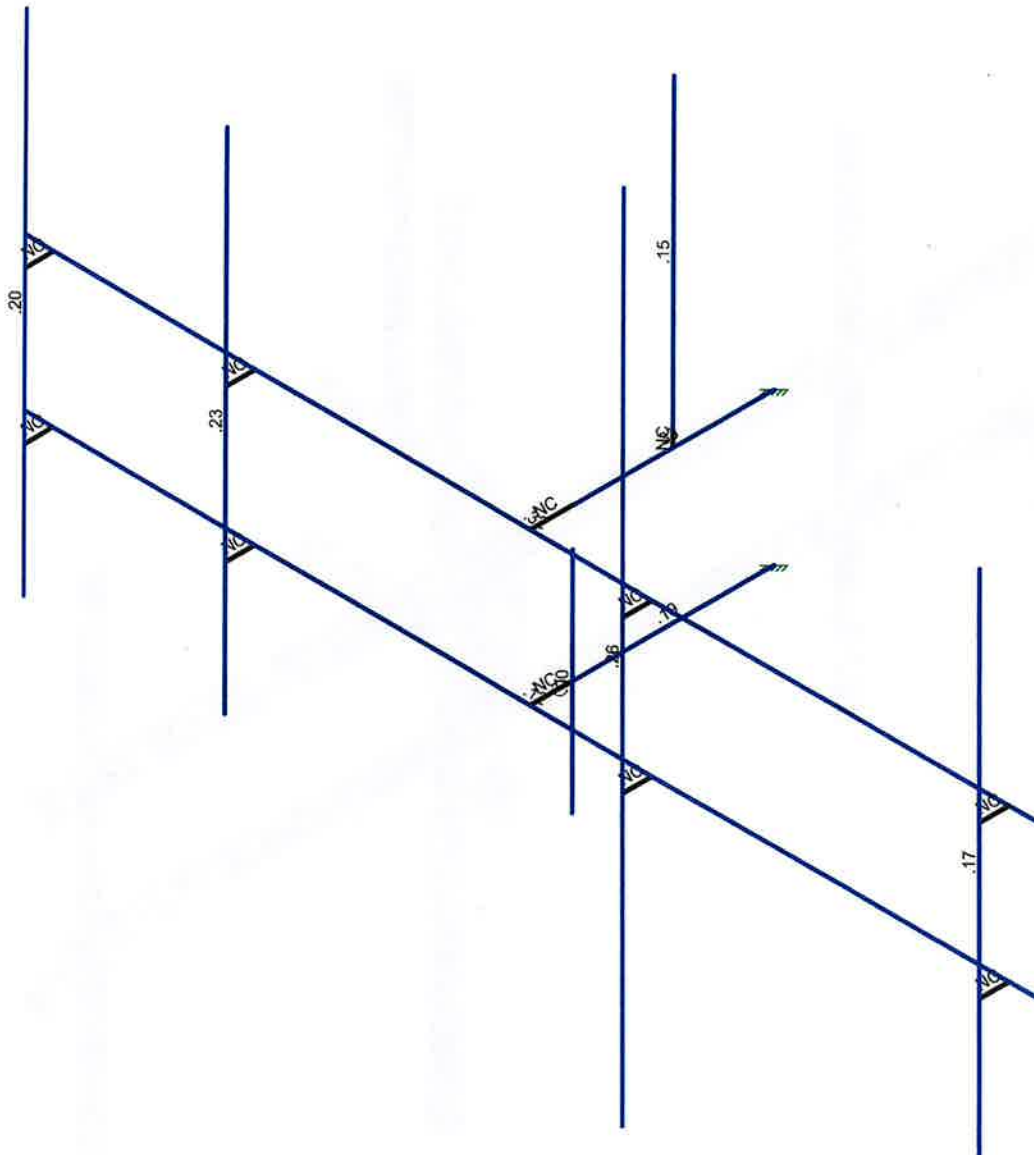
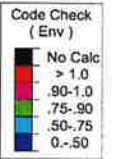
Antenna Mount Analysis

SK - 1

July 19, 2023 at 3:12 PM

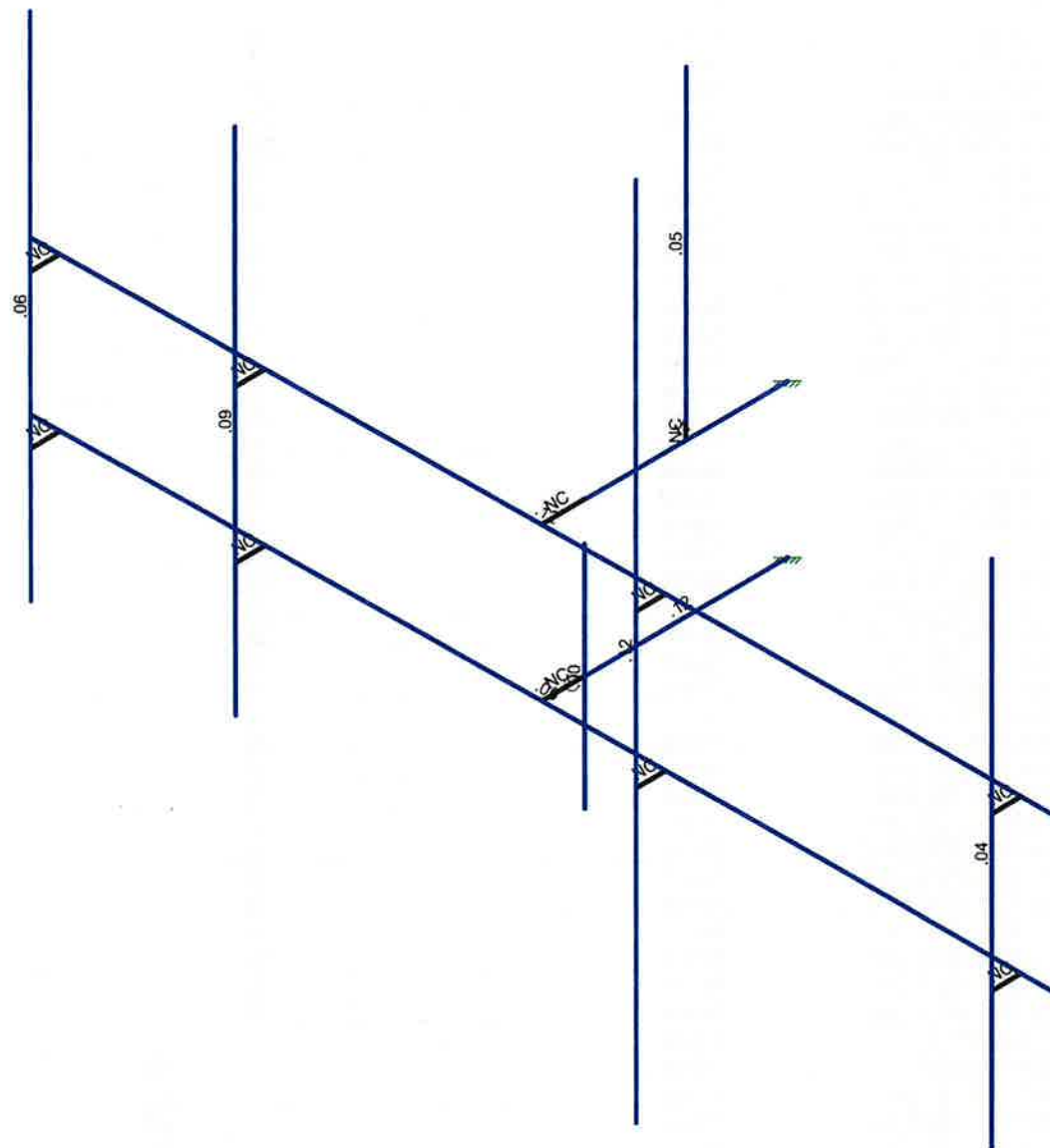
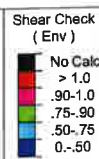
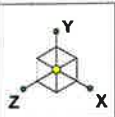
5000243611-VZW\_MT\_LOT\_A\_H...





Member Code Checks Displayed (Enveloped)  
Envelope Only Solution

Colliers Engineering & De...	Antenna Mount Analysis	SK - 4
		July 19, 2023 at 3:21 PM
Project # 23777083		5000243611-VZW_MT_LOT_A_H...



Member Shear Checks Displayed (Enveloped)  
Envelope Only Solution

Colliers Engineering & De...	Antenna Mount Analysis	SK - 5
		July 19, 2023 at 3:21 PM
Project # 23777083		5000243611-VZW_MT_LOT_A_H....



### Basic Load Cases

	BLC Description	Category	X Gr...	Y Gr...	Z Gr...	Joint	Point	Distributed	Area(Member)	Surfa...
1	Antenna D	None					39			
2	Antenna Di	None					39			
3	Antenna Wo (0 Deg)	None					39			
4	Antenna Wo (30 Deg)	None					39			
5	Antenna Wo (60 Deg)	None					39			
6	Antenna Wo (90 Deg)	None					39			
7	Antenna Wo (120 Deg)	None					39			
8	Antenna Wo (150 Deg)	None					39			
9	Antenna Wo (180 Deg)	None					39			
10	Antenna Wo (210 Deg)	None					39			
11	Antenna Wo (240 Deg)	None					39			
12	Antenna Wo (270 Deg)	None					39			
13	Antenna Wo (300 Deg)	None					39			
14	Antenna Wo (330 Deg)	None					39			
15	Antenna Wi (0 Deg)	None					39			
16	Antenna Wi (30 Deg)	None					39			
17	Antenna Wi (60 Deg)	None					39			
18	Antenna Wi (90 Deg)	None					39			
19	Antenna Wi (120 Deg)	None					39			
20	Antenna Wi (150 Deg)	None					39			
21	Antenna Wi (180 Deg)	None					39			
22	Antenna Wi (210 Deg)	None					39			
23	Antenna Wi (240 Deg)	None					39			
24	Antenna Wi (270 Deg)	None					39			
25	Antenna Wi (300 Deg)	None					39			
26	Antenna Wi (330 Deg)	None					39			
27	Antenna Wm (0 Deg)	None					39			
28	Antenna Wm (30 Deg)	None					39			
29	Antenna Wm (60 Deg)	None					39			
30	Antenna Wm (90 Deg)	None					39			
31	Antenna Wm (120 Deg)	None					39			
32	Antenna Wm (150 Deg)	None					39			
33	Antenna Wm (180 Deg)	None					39			
34	Antenna Wm (210 Deg)	None					39			
35	Antenna Wm (240 Deg)	None					39			
36	Antenna Wm (270 Deg)	None					39			
37	Antenna Wm (300 Deg)	None					39			
38	Antenna Wm (330 Deg)	None					39			
39	Structure D	None		-1						
40	Structure Di	None						10		
41	Structure Wo (0 Deg)	None						20		
42	Structure Wo (30 Deg)	None						20		
43	Structure Wo (60 Deg)	None						20		
44	Structure Wo (90 Deg)	None						20		
45	Structure Wo (120 Deg)	None						20		
46	Structure Wo (150 Deg)	None						20		
47	Structure Wo (180 Deg)	None						20		
48	Structure Wo (210 Deg)	None						20		
49	Structure Wo (240 Deg)	None						20		
50	Structure Wo (270 Deg)	None						20		
51	Structure Wo (300 Deg)	None						20		
52	Structure Wo (330 Deg)	None						20		
53	Structure Wi (0 Deg)	None						20		
54	Structure Wi (30 Deg)	None						20		
55	Structure Wi (60 Deg)	None						20		
56	Structure Wi (90 Deg)	None						20		

### Basic Load Cases (Continued)

	BLC Description	Category	X Gr...	Y Gr...	Z Gr...	Joint	Point	Distributed	Area(Member)	Surfa...
57	Structure Wi (120 Deg)	None						20		
58	Structure Wi (150 Deg)	None						20		
59	Structure Wi (180 Deg)	None						20		
60	Structure Wi (210 Deg)	None						20		
61	Structure Wi (240 Deg)	None						20		
62	Structure Wi (270 Deg)	None						20		
63	Structure Wi (300 Deg)	None						20		
64	Structure Wi (330 Deg)	None						20		
65	Structure Wm (0 Deg)	None						20		
66	Structure Wm (30 Deg)	None						20		
67	Structure Wm (60 Deg)	None						20		
68	Structure Wm (90 Deg)	None						20		
69	Structure Wm (120 Deg)	None						20		
70	Structure Wm (150 Deg)	None						20		
71	Structure Wm (180 Deg)	None						20		
72	Structure Wm (210 Deg)	None						20		
73	Structure Wm (240 Deg)	None						20		
74	Structure Wm (270 Deg)	None						20		
75	Structure Wm (300 Deg)	None						20		
76	Structure Wm (330 Deg)	None						20		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	Antenna Ev	None					39			
82	Antenna Eh (0 Deg)	None					26			
83	Antenna Eh (90 Deg)	None					26			
84	Structure Ev	ELY		-0.0422						
85	Structure Eh (0 Deg)	ELZ			-0.1056					
86	Structure Eh (90 Deg)	ELX	0.1056							

### Load Combinations

	Description	S...	PDel...	SR...	BLC	Fa...	BLC	Fa...	BLC	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	BLC	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
1	1.2D+1.0Wo (0 Deg)	Yes	Y		1	1.2	39	1.2	3	1	41	1												
2	1.2D+1.0Wo (30 Deg)	Yes	Y		1	1.2	39	1.2	4	1	42	1												
3	1.2D+1.0Wo (60 Deg)	Yes	Y		1	1.2	39	1.2	5	1	43	1												
4	1.2D+1.0Wo (90 Deg)	Yes	Y		1	1.2	39	1.2	6	1	44	1												
5	1.2D+1.0Wo (120 De...)	Yes	Y		1	1.2	39	1.2	7	1	45	1												
6	1.2D+1.0Wo (150 De...)	Yes	Y		1	1.2	39	1.2	8	1	46	1												
7	1.2D+1.0Wo (180 De...)	Yes	Y		1	1.2	39	1.2	9	1	47	1												
8	1.2D+1.0Wo (210 De...)	Yes	Y		1	1.2	39	1.2	10	1	48	1												
9	1.2D+1.0Wo (240 De...)	Yes	Y		1	1.2	39	1.2	11	1	49	1												
10	1.2D+1.0Wo (270 De...)	Yes	Y		1	1.2	39	1.2	12	1	50	1												
11	1.2D+1.0Wo (300 De...)	Yes	Y		1	1.2	39	1.2	13	1	51	1												
12	1.2D+1.0Wo (330 De...)	Yes	Y		1	1.2	39	1.2	14	1	52	1												
13	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1								
14	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1								
15	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1								
16	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1								
17	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1								
18	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1								
19	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1								
20	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1								
21	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1								
22	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1								



### Load Combinations (Continued)

Description	S...	PDel...	SR...	BLC	Fa...	BLC	Fa...	BLC	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	BLC	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
23	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1							
24	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1							
25	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1									
26	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1									
27	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1									
28	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1									
29	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1									
30	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1									
31	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1									
32	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1									
33	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1									
34	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1									
35	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1									
36	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1									
37	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1									
38	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1									
39	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1									
40	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1									
41	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1									
42	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1									
43	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1									
44	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1									
45	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1									
46	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1									
47	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1									
48	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1									
49	1.2D + 1.5Lv1	Yes	Y		1	1.2	39	1.2	79	1.5													
50	1.2D + 1.5Lv2	Yes	Y		1	1.2	39	1.2	80	1.5													
51	1.4D	Yes	Y		1	1.4	39	1.4															
52	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	1	83	ELZ	1	E...					
53	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.866	83	.5	ELZ	.866	E...	.5			
54	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.5	83	.866	ELZ	.5	E...	.866			
55	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82		83	1	ELZ		E...	1			
56	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.5	83	.866	ELZ	-.5	E...	.866			
57	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.8...	83	.5	ELZ	-.8...	E...	.5			
58	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-1	83		ELZ	-1	E...				
59	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.8...	83	-.5	ELZ	-.8...	E...	-.5			
60	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.5	83	-.8...	ELZ	-.5	E...	-.8...			
61	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82		83	-1	ELZ		E...	-1			
62	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.5	83	-.8...	ELZ	.5	E...	-.8...			
63	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.866	83	-.5	ELZ	.866	E...	-.5			
64	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	1	83		ELZ	1	E...				
65	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.866	83	.5	ELZ	.866	E...	.5			
66	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.5	83	.866	ELZ	.5	E...	.866			
67	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82		83	1	ELZ		E...	1			
68	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-.5	83	.866	ELZ	-.5	E...	.866			
69	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-.8...	83	.5	ELZ	-.8...	E...	.5			
70	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-1	83		ELZ	-1	E...				
71	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-.8...	83	-.5	ELZ	-.8...	E...	-.5			
72	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-.5	83	-.8...	ELZ	-.5	E...	-.8...			
73	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82		83	-1	ELZ		E...	-1			
74	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.5	83	-.8...	ELZ	.5	E...	-.8...			
75	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.866	83	-.5	ELZ	.866	E...	-.5			

### Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	A1	0	0	1.541667	0	
2	A2	0	0	3.520833	0	
3	A3	5	0	3.9375	0	
4	A4	-5	0	3.9375	0	
5	A7	4.708333	0	3.9375	0	
6	A8	4.708333	0	4.229167	0	
7	A13	-4.708333	0	3.9375	0	
8	A14	-4.708333	0	4.229167	0	
9	A15	0	0	3.9375	0	
10	A16	0	1.125	3.520833	0	
11	A17	0	-1.125	3.520833	0	
12	A18	4.708333	3.666667	4.229167	0	
13	A20	4.708333	-1.333333	4.229167	0	
14	A24	-4.708333	3.708333	4.229167	0	
15	A25	-4.708333	-1.291667	4.229167	0	
16	N26	-0.	4.666667	2.53125	0	
17	N27	-0.	1.666667	2.53125	0	
18	N28	-2.708333	0	3.9375	0	
19	N29	-2.708333	0	4.229167	0	
20	N30	-2.708333	3.708333	4.229167	0	
21	N31	-2.708333	-1.291667	4.229167	0	
22	N32	1.208333	0	3.9375	0	
23	N33	1.208333	0	4.229167	0	
24	N34	1.208333	5.166667	4.229167	0	
25	N35	1.208333	-2.833333	4.229167	0	
26	N28A	0	1.5	1.541667	0	
27	N29A	0	1.5	3.520833	0	
28	N30A	5	1.5	3.9375	0	
29	N31A	-5	1.5	3.9375	0	
30	N32A	4.708333	1.5	3.9375	0	
31	N33A	4.708333	1.5	4.229167	0	
32	N34A	-4.708333	1.5	3.9375	0	
33	N35A	-4.708333	1.5	4.229167	0	
34	N36	0	1.5	3.9375	0	
35	N37	-2.708333	1.5	3.9375	0	
36	N38	-2.708333	1.5	4.229167	0	
37	N39	1.208333	1.5	3.9375	0	
38	N40	1.208333	1.5	4.229167	0	
39	N41	0	1.5	2.53125	0	

### Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Desig...	A [in2]	Iyy [i...	Izz [i...	J [in4]
1	Standoff Horizontal	HSS4X4X4	None	None	A500 Gr.B RE..	Typical	3.37	7.8	7.8	12.8
2	Mast Pipe	PIPE 4.0	None	None	A53 Gr.B	Typical	2.96	6.82	6.82	13.6
3	Face Horizontal	HSS4X4X4	None	None	A500 Gr.B RE..	Typical	3.37	7.8	7.8	12.8
4	Mount Pipe (P2STD)	PIPE 2.0	None	None	A53 Gr.B	Typical	1.02	.627	.627	1.25
5	Mount Pipe (P2.5STD)	PIPE 2.5	None	None	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
6	Mod Standoff Horizontal	HSS3X3X4	None	None	A500 Gr.B RE..	Typical	2.44	3.02	3.02	5.08
7	Mod Face Horizontal	PIPE 3.0	None	None	A53 Gr.B	Typical	2.07	2.85	2.85	5.69



### Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/...)	Density[k/ft^3]	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.527	42	1.4	58	1.3
5	A500 Gr.B RECT	29000	11154	.3	.65	.527	46	1.4	58	1.3
6	A500 Gr.C RND	29000	11154	.3	.65	.527	46	1.4	62	1.3
7	A500 Gr.C RECT	29000	11154	.3	.65	.527	50	1.4	62	1.3
8	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
9	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3
10	A913 Gr.65	29000	11154	.3	.65	.49	65	1.1	80	1.1

### Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Ru...
1	A1	A1	A2			Standoff Horizontal	None	None	A500 Gr...	Typical
2	A2	A3	A4			Face Horizontal	None	None	A500 Gr...	Typical
3	A4	A7	A8			RIGID	None	None	RIGID	Typical
4	A7	A13	A14			RIGID	None	None	RIGID	Typical
5	A8	A2	A15			RIGID	None	None	RIGID	Typical
6	A9	A16	A17			Mast Pipe	None	None	A53 Gr.B	Typical
7	MP1A	A18	A20			Mount Pipe (P2ST...	None	None	A53 Gr.B	Typical
8	MP4A	A24	A25			Mount Pipe (P2ST...	None	None	A53 Gr.B	Typical
9	S1	N26	N27			Mount Pipe (P2ST...	None	None	A53 Gr.B	Typical
10	M15	N28	N29			RIGID	None	None	RIGID	Typical
11	MP3A	N30	N31			Mount Pipe (P2ST...	None	None	A53 Gr.B	Typical
12	M17	N32	N33			RIGID	None	None	RIGID	Typical
13	MP2A	N34	N35			Mount Pipe (P2.5...	None	None	A53 Gr.B	Typical
14	M15A	N28A	N29A			Mod Standoff Hori...	None	None	A500 Gr...	Typical
15	M16	N30A	N31A			Mod Face Horizon...	None	None	A53 Gr.B	Typical
16	M17A	N32A	N33A			RIGID	None	None	RIGID	Typical
17	M18	N34A	N35A			RIGID	None	None	RIGID	Typical
18	M19	N29A	N36			RIGID	None	None	RIGID	Typical
19	M20	N37	N38			RIGID	None	None	RIGID	Typical
20	M21	N39	N40			RIGID	None	None	RIGID	Typical
21	M22	N27	N41			RIGID	None	None	RIGID	Typical

### Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Ratio Opti...	Analysis ...	Inactive	Seismi...
1	A1						Yes	** NA **			None
2	A2						Yes	** NA **			None
3	A4						Yes	** NA **			None
4	A7						Yes	** NA **			None
5	A8	OOOOXO					Yes	** NA **			None
6	A9						Yes	** NA **			None
7	MP1A						Yes	** NA **			None
8	MP4A						Yes	** NA **			None
9	S1						Yes	** NA **			None
10	M15						Yes	** NA **			None
11	MP3A						Yes	** NA **			None
12	M17						Yes	** NA **			None
13	MP2A						Yes	** NA **			None
14	M15A						Yes	** NA **			None
15	M16						Yes	** NA **			None
16	M17A						Yes	** NA **			None

### Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Ratio	Opti...	Analysis ...	Inactive	Seismi...
17	M18						Yes	** NA **				None
18	M19						Yes	** NA **				None
19	M20						Yes	** NA **				None
20	M21						Yes	** NA **				None
21	M22						Yes	** NA **				None

### Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	Y	-43.55	.75
2	MP4A	My	-.0286	.75
3	MP4A	Mz	-.005	.75
4	MP4A	Y	-43.55	2.75
5	MP4A	My	-.0286	2.75
6	MP4A	Mz	-.005	2.75
7	S1	Y	-.32	1
8	S1	My	.016	1
9	S1	Mz	0	1
10	MP3A	Y	-84.4	.5
11	MP3A	My	.0422	.5
12	MP3A	Mz	0	.5
13	MP4A	Y	-70.3	.25
14	MP4A	My	.0352	.25
15	MP4A	Mz	0	.25
16	MP1A	Y	-13.15	.25
17	MP1A	My	-.0065	.25
18	MP1A	Mz	-.0011	.25
19	MP1A	Y	-13.15	4.25
20	MP1A	My	-.0065	4.25
21	MP1A	Mz	-.0011	4.25
22	MP2A	Y	-17.6	1
23	MP2A	My	-.0073	1
24	MP2A	Mz	0	1
25	MP2A	Y	-17.6	1
26	MP2A	My	.0073	1
27	MP2A	Mz	0	1
28	MP2A	Y	-30	.75
29	MP2A	My	-.0234	.75
30	MP2A	Mz	.0175	.75
31	MP2A	Y	-30	6
32	MP2A	My	-.0234	6
33	MP2A	Mz	.0175	6
34	MP2A	Y	-30	.75
35	MP2A	My	-.016	.75
36	MP2A	Mz	-.0244	.75
37	MP2A	Y	-30	6
38	MP2A	My	-.016	6
39	MP2A	Mz	-.0244	6

### Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	Y	-35.4089	.75
2	MP4A	My	-.0232	.75
3	MP4A	Mz	-.0041	.75
4	MP4A	Y	-35.4089	2.75
5	MP4A	My	-.0232	2.75



### Member Point Loads (BLC 2 : Antenna Di) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
6	MP4A	Mz	-.0041	2.75
7	S1	Y	-87.4162	1
8	S1	My	.0437	1
9	S1	Mz	0	1
10	MP3A	Y	-44.6383	.5
11	MP3A	Mv	.0223	.5
12	MP3A	Mz	0	.5
13	MP4A	Y	-40.1419	.25
14	MP4A	My	.0201	.25
15	MP4A	Mz	0	.25
16	MP1A	Y	-60.7901	.25
17	MP1A	Mv	-.0299	.25
18	MP1A	Mz	-.0053	.25
19	MP1A	Y	-60.7901	4.25
20	MP1A	My	-.0299	4.25
21	MP1A	Mz	-.0053	4.25
22	MP2A	Y	-17.1179	1
23	MP2A	Mv	-.0071	1
24	MP2A	Mz	0	1
25	MP2A	Y	-17.1179	1
26	MP2A	My	.0071	1
27	MP2A	Mz	0	1
28	MP2A	Y	-82.0044	.75
29	MP2A	Mv	-.0639	.75
30	MP2A	Mz	.0477	.75
31	MP2A	Y	-82.0044	6
32	MP2A	My	-.0639	6
33	MP2A	Mz	.0477	6
34	MP2A	Y	-82.0044	.75
35	MP2A	Mv	-.0438	.75
36	MP2A	Mz	-.0667	.75
37	MP2A	Y	-82.0044	6
38	MP2A	My	-.0438	6
39	MP2A	Mz	-.0667	6

### Member Point Loads (BLC 3 : Antenna Wo (0 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	0	.75
2	MP4A	Z	-73.005	.75
3	MP4A	Mx	.0085	.75
4	MP4A	X	0	2.75
5	MP4A	Z	-73.005	2.75
6	MP4A	Mx	.0085	2.75
7	S1	X	0	1
8	S1	Z	-91.577	1
9	S1	Mx	0	1
10	MP3A	X	0	.5
11	MP3A	Z	-58.898	.5
12	MP3A	Mx	0	.5
13	MP4A	X	0	.25
14	MP4A	Z	-58.898	.25
15	MP4A	Mx	0	.25
16	MP1A	X	0	.25
17	MP1A	Z	-153.641	.25
18	MP1A	Mx	.0133	.25
19	MP1A	X	0	4.25



**Member Point Loads (BLC 3 : Antenna Wo (0 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
20	MP1A	Z	-153.641	4.25
21	MP1A	Mx	.0133	4.25
22	MP2A	X	0	1
23	MP2A	Z	-36.361	1
24	MP2A	Mx	0	1
25	MP2A	X	0	1
26	MP2A	Z	-36.361	1
27	MP2A	Mx	0	1
28	MP2A	X	0	.75
29	MP2A	Z	-89.185	.75
30	MP2A	Mx	-.0519	.75
31	MP2A	X	0	6
32	MP2A	Z	-89.185	6
33	MP2A	Mx	-.0519	6
34	MP2A	X	0	.75
35	MP2A	Z	-89.185	.75
36	MP2A	Mx	.0725	.75
37	MP2A	X	0	6
38	MP2A	Z	-89.185	6
39	MP2A	Mx	.0725	6

**Member Point Loads (BLC 4 : Antenna Wo (30 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	34.383	.75
2	MP4A	Z	-59.553	.75
3	MP4A	Mx	-.0157	.75
4	MP4A	X	34.383	2.75
5	MP4A	Z	-59.553	2.75
6	MP4A	Mx	-.0157	2.75
7	S1	X	49.398	1
8	S1	Z	-85.561	1
9	S1	Mx	.0247	1
10	MP3A	X	27.027	.5
11	MP3A	Z	-46.812	.5
12	MP3A	Mx	.0135	.5
13	MP4A	X	26.124	.25
14	MP4A	Z	-45.248	.25
15	MP4A	Mx	.0131	.25
16	MP1A	X	74.54	.25
17	MP1A	Z	-129.108	.25
18	MP1A	Mx	-.0255	.25
19	MP1A	X	74.54	4.25
20	MP1A	Z	-129.108	4.25
21	MP1A	Mx	-.0255	4.25
22	MP2A	X	14.995	1
23	MP2A	Z	-25.972	1
24	MP2A	Mx	-.0062	1
25	MP2A	X	14.995	1
26	MP2A	Z	-25.972	1
27	MP2A	Mx	.0062	1
28	MP2A	X	43.611	.75
29	MP2A	Z	-75.537	.75
30	MP2A	Mx	-.0779	.75
31	MP2A	X	43.611	6
32	MP2A	Z	-75.537	6
33	MP2A	Mx	-.0779	6

### Member Point Loads (BLC 4 : Antenna Wo (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
34	MP2A	X	43.611	.75
35	MP2A	Z	-75.537	.75
36	MP2A	Mx	.0382	.75
37	MP2A	X	43.611	6
38	MP2A	Z	-75.537	6
39	MP2A	Mx	.0382	6

### Member Point Loads (BLC 5 : Antenna Wo (60 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	39.685	.75
2	MP4A	Z	-22.912	.75
3	MP4A	Mx	-.0234	.75
4	MP4A	X	39.685	2.75
5	MP4A	Z	-22.912	2.75
6	MP4A	Mx	-.0234	2.75
7	S1	X	98.066	1
8	S1	Z	-56.618	1
9	S1	Mx	.049	1
10	MP3A	X	38.42	.5
11	MP3A	Z	-22.182	.5
12	MP3A	Mx	.0192	.5
13	MP4A	X	33.731	.25
14	MP4A	Z	-19.474	.25
15	MP4A	Mx	.0169	.25
16	MP1A	X	107.735	.25
17	MP1A	Z	-62.201	.25
18	MP1A	Mx	-.0476	.25
19	MP1A	X	107.735	4.25
20	MP1A	Z	-62.201	4.25
21	MP1A	Mx	-.0476	4.25
22	MP2A	X	14.937	1
23	MP2A	Z	-8.624	1
24	MP2A	Mx	-.0062	1
25	MP2A	X	14.937	1
26	MP2A	Z	-8.624	1
27	MP2A	Mx	.0062	1
28	MP2A	X	66.337	.75
29	MP2A	Z	-38.3	.75
30	MP2A	Mx	-.074	.75
31	MP2A	X	66.337	6
32	MP2A	Z	-38.3	6
33	MP2A	Mx	-.074	6
34	MP2A	X	66.337	.75
35	MP2A	Z	-38.3	.75
36	MP2A	Mx	-.0042	.75
37	MP2A	X	66.337	6
38	MP2A	Z	-38.3	6
39	MP2A	Mx	-.0042	6

### Member Point Loads (BLC 6 : Antenna Wo (90 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	27.122	.75
2	MP4A	Z	0	.75
3	MP4A	Mx	-.0178	.75
4	MP4A	X	27.122	2.75
5	MP4A	Z	0	2.75



### Member Point Loads (BLC 6 : Antenna Wo (90 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
6	MP4A	Mx	-.0178	2.75
7	S1	X	120.456	1
8	S1	Z	0	1
9	S1	Mx	.0602	1
10	MP3A	X	39.519	.5
11	MP3A	Z	0	.5
12	MP3A	Mx	.0198	.5
13	MP4A	X	32.299	.25
14	MP4A	Z	0	.25
15	MP4A	Mx	.0161	.25
16	MP1A	X	104.283	.25
17	MP1A	Z	0	.25
18	MP1A	Mx	-.0513	.25
19	MP1A	X	104.283	4.25
20	MP1A	Z	0	4.25
21	MP1A	Mx	-.0513	4.25
22	MP2A	X	10.877	1
23	MP2A	Z	0	1
24	MP2A	Mx	-.0045	1
25	MP2A	X	10.877	1
26	MP2A	Z	0	1
27	MP2A	Mx	.0045	1
28	MP2A	X	67.94	.75
29	MP2A	Z	0	.75
30	MP2A	Mx	-.053	.75
31	MP2A	X	67.94	6
32	MP2A	Z	0	6
33	MP2A	Mx	-.053	6
34	MP2A	X	67.94	.75
35	MP2A	Z	0	.75
36	MP2A	Mx	-.0362	.75
37	MP2A	X	67.94	6
38	MP2A	Z	0	6
39	MP2A	Mx	-.0362	6

### Member Point Loads (BLC 7 : Antenna Wo (120 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	27.159	.75
2	MP4A	Z	15.681	.75
3	MP4A	Mx	-.0196	.75
4	MP4A	X	27.159	2.75
5	MP4A	Z	15.681	2.75
6	MP4A	Mx	-.0196	2.75
7	S1	X	98.066	1
8	S1	Z	56.618	1
9	S1	Mx	.049	1
10	MP3A	X	38.42	.5
11	MP3A	Z	22.182	.5
12	MP3A	Mx	.0192	.5
13	MP4A	X	33.731	.25
14	MP4A	Z	19.474	.25
15	MP4A	Mx	.0169	.25
16	MP1A	X	94.261	.25
17	MP1A	Z	54.422	.25
18	MP1A	Mx	-.0511	.25
19	MP1A	X	94.261	4.25

**Member Point Loads (BLC 7 : Antenna Wo (120 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
20	MP1A	Z	54.422	4.25
21	MP1A	Mx	-.0511	4.25
22	MP2A	X	14.937	1
23	MP2A	Z	8.624	1
24	MP2A	Mx	-.0062	1
25	MP2A	X	14.937	1
26	MP2A	Z	8.624	1
27	MP2A	Mx	.0062	1
28	MP2A	X	60.537	.75
29	MP2A	Z	34.951	.75
30	MP2A	Mx	-.0269	.75
31	MP2A	X	60.537	6
32	MP2A	Z	34.951	6
33	MP2A	Mx	-.0269	6
34	MP2A	X	60.537	.75
35	MP2A	Z	34.951	.75
36	MP2A	Mx	-.0607	.75
37	MP2A	X	60.537	6
38	MP2A	Z	34.951	6
39	MP2A	Mx	-.0607	6

**Member Point Loads (BLC 8 : Antenna Wo (150 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	27.151	.75
2	MP4A	Z	47.028	.75
3	MP4A	Mx	-.0233	.75
4	MP4A	X	27.151	2.75
5	MP4A	Z	47.028	2.75
6	MP4A	Mx	-.0233	2.75
7	S1	X	49.398	1
8	S1	Z	85.561	1
9	S1	Mx	.0247	1
10	MP3A	X	27.027	.5
11	MP3A	Z	46.812	.5
12	MP3A	Mx	.0135	.5
13	MP4A	X	26.124	.25
14	MP4A	Z	45.248	.25
15	MP4A	Mx	.0131	.25
16	MP1A	X	66.761	.25
17	MP1A	Z	115.634	.25
18	MP1A	Mx	-.0429	.25
19	MP1A	X	66.761	4.25
20	MP1A	Z	115.634	4.25
21	MP1A	Mx	-.0429	4.25
22	MP2A	X	14.995	1
23	MP2A	Z	25.972	1
24	MP2A	Mx	-.0062	1
25	MP2A	X	14.995	1
26	MP2A	Z	25.972	1
27	MP2A	Mx	.0062	1
28	MP2A	X	40.263	.75
29	MP2A	Z	69.737	.75
30	MP2A	Mx	.0092	.75
31	MP2A	X	40.263	6
32	MP2A	Z	69.737	6
33	MP2A	Mx	.0092	6



### Member Point Loads (BLC 8 : Antenna Wo (150 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
34	MP2A	X	40.263	.75
35	MP2A	Z	69.737	.75
36	MP2A	Mx	-.0782	.75
37	MP2A	X	40.263	6
38	MP2A	Z	69.737	6
39	MP2A	Mx	-.0782	6

### Member Point Loads (BLC 9 : Antenna Wo (180 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	0	.75
2	MP4A	Z	73.005	.75
3	MP4A	Mx	-.0085	.75
4	MP4A	X	0	2.75
5	MP4A	Z	73.005	2.75
6	MP4A	Mx	-.0085	2.75
7	S1	X	0	1
8	S1	Z	91.577	1
9	S1	Mx	0	1
10	MP3A	X	0	.5
11	MP3A	Z	58.898	.5
12	MP3A	Mx	0	.5
13	MP4A	X	0	.25
14	MP4A	Z	58.898	.25
15	MP4A	Mx	0	.25
16	MP1A	X	0	.25
17	MP1A	Z	153.641	.25
18	MP1A	Mx	-.0133	.25
19	MP1A	X	0	4.25
20	MP1A	Z	153.641	4.25
21	MP1A	Mx	-.0133	4.25
22	MP2A	X	0	1
23	MP2A	Z	36.361	1
24	MP2A	Mx	0	1
25	MP2A	X	0	1
26	MP2A	Z	36.361	1
27	MP2A	Mx	0	1
28	MP2A	X	0	.75
29	MP2A	Z	89.185	.75
30	MP2A	Mx	.0519	.75
31	MP2A	X	0	6
32	MP2A	Z	89.185	6
33	MP2A	Mx	.0519	6
34	MP2A	X	0	.75
35	MP2A	Z	89.185	.75
36	MP2A	Mx	-.0725	.75
37	MP2A	X	0	6
38	MP2A	Z	89.185	6
39	MP2A	Mx	-.0725	6

### Member Point Loads (BLC 10 : Antenna Wo (210 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	-34.383	.75
2	MP4A	Z	59.553	.75
3	MP4A	Mx	.0157	.75
4	MP4A	X	-34.383	2.75
5	MP4A	Z	59.553	2.75

**Member Point Loads (BLC 10 : Antenna Wo (210 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
6	MP4A	Mx	.0157	2.75
7	S1	X	-49.398	1
8	S1	Z	85.561	1
9	S1	Mx	-.0247	1
10	MP3A	X	-27.027	.5
11	MP3A	Z	46.812	.5
12	MP3A	Mx	-.0135	.5
13	MP4A	X	-26.124	.25
14	MP4A	Z	45.248	.25
15	MP4A	Mx	-.0131	.25
16	MP1A	X	-74.54	.25
17	MP1A	Z	129.108	.25
18	MP1A	Mx	.0255	.25
19	MP1A	X	-74.54	4.25
20	MP1A	Z	129.108	4.25
21	MP1A	Mx	.0255	4.25
22	MP2A	X	-14.995	1
23	MP2A	Z	25.972	1
24	MP2A	Mx	.0062	1
25	MP2A	X	-14.995	1
26	MP2A	Z	25.972	1
27	MP2A	Mx	-.0062	1
28	MP2A	X	-43.611	.75
29	MP2A	Z	75.537	.75
30	MP2A	Mx	.0779	.75
31	MP2A	X	-43.611	6
32	MP2A	Z	75.537	6
33	MP2A	Mx	.0779	6
34	MP2A	X	-43.611	.75
35	MP2A	Z	75.537	.75
36	MP2A	Mx	-.0382	.75
37	MP2A	X	-43.611	6
38	MP2A	Z	75.537	6
39	MP2A	Mx	-.0382	6

**Member Point Loads (BLC 11 : Antenna Wo (240 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-39.685	.75
2	MP4A	Z	22.912	.75
3	MP4A	Mx	.0234	.75
4	MP4A	X	-39.685	2.75
5	MP4A	Z	22.912	2.75
6	MP4A	Mx	.0234	2.75
7	S1	X	-98.066	1
8	S1	Z	56.618	1
9	S1	Mx	-.049	1
10	MP3A	X	-38.42	.5
11	MP3A	Z	22.182	.5
12	MP3A	Mx	-.0192	.5
13	MP4A	X	-33.731	.25
14	MP4A	Z	19.474	.25
15	MP4A	Mx	-.0169	.25
16	MP1A	X	-107.735	.25
17	MP1A	Z	62.201	.25
18	MP1A	Mx	.0476	.25
19	MP1A	X	-107.735	4.25



**Member Point Loads (BLC 11 : Antenna Wo (240 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
20	MP1A	Z	62.201	4.25
21	MP1A	Mx	.0476	4.25
22	MP2A	X	-14.937	1
23	MP2A	Z	8.624	1
24	MP2A	Mx	.0062	1
25	MP2A	X	-14.937	1
26	MP2A	Z	8.624	1
27	MP2A	Mx	-.0062	1
28	MP2A	X	-66.337	.75
29	MP2A	Z	38.3	.75
30	MP2A	Mx	.074	.75
31	MP2A	X	-66.337	6
32	MP2A	Z	38.3	6
33	MP2A	Mx	.074	6
34	MP2A	X	-66.337	.75
35	MP2A	Z	38.3	.75
36	MP2A	Mx	.0042	.75
37	MP2A	X	-66.337	6
38	MP2A	Z	38.3	6
39	MP2A	Mx	.0042	6

**Member Point Loads (BLC 12 : Antenna Wo (270 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-27.122	.75
2	MP4A	Z	0	.75
3	MP4A	Mx	.0178	.75
4	MP4A	X	-27.122	2.75
5	MP4A	Z	0	2.75
6	MP4A	Mx	.0178	2.75
7	S1	X	-120.456	1
8	S1	Z	0	1
9	S1	Mx	-.0602	1
10	MP3A	X	-39.519	.5
11	MP3A	Z	0	.5
12	MP3A	Mx	-.0198	.5
13	MP4A	X	-32.299	.25
14	MP4A	Z	0	.25
15	MP4A	Mx	-.0161	.25
16	MP1A	X	-104.283	.25
17	MP1A	Z	0	.25
18	MP1A	Mx	.0513	.25
19	MP1A	X	-104.283	4.25
20	MP1A	Z	0	4.25
21	MP1A	Mx	.0513	4.25
22	MP2A	X	-10.877	1
23	MP2A	Z	0	1
24	MP2A	Mx	.0045	1
25	MP2A	X	-10.877	1
26	MP2A	Z	0	1
27	MP2A	Mx	-.0045	1
28	MP2A	X	-67.94	.75
29	MP2A	Z	0	.75
30	MP2A	Mx	.053	.75
31	MP2A	X	-67.94	6
32	MP2A	Z	0	6
33	MP2A	Mx	.053	6

**Member Point Loads (BLC 12 : Antenna Wo (270 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
34	MP2A	X	-67.94	.75
35	MP2A	Z	0	.75
36	MP2A	Mx	.0362	.75
37	MP2A	X	-67.94	6
38	MP2A	Z	0	6
39	MP2A	Mx	.0362	6

**Member Point Loads (BLC 13 : Antenna Wo (300 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-27.159	.75
2	MP4A	Z	-15.681	.75
3	MP4A	Mx	.0196	.75
4	MP4A	X	-27.159	2.75
5	MP4A	Z	-15.681	2.75
6	MP4A	Mx	.0196	2.75
7	S1	X	-98.066	1
8	S1	Z	-56.618	1
9	S1	Mx	-.049	1
10	MP3A	X	-38.42	.5
11	MP3A	Z	-22.182	.5
12	MP3A	Mx	-.0192	.5
13	MP4A	X	-33.731	.25
14	MP4A	Z	-19.474	.25
15	MP4A	Mx	-.0169	.25
16	MP1A	X	-94.261	.25
17	MP1A	Z	-54.422	.25
18	MP1A	Mx	.0511	.25
19	MP1A	X	-94.261	4.25
20	MP1A	Z	-54.422	4.25
21	MP1A	Mx	.0511	4.25
22	MP2A	X	-14.937	1
23	MP2A	Z	-8.624	1
24	MP2A	Mx	.0062	1
25	MP2A	X	-14.937	1
26	MP2A	Z	-8.624	1
27	MP2A	Mx	-.0062	1
28	MP2A	X	-60.537	.75
29	MP2A	Z	-34.951	.75
30	MP2A	Mx	.0269	.75
31	MP2A	X	-60.537	6
32	MP2A	Z	-34.951	6
33	MP2A	Mx	.0269	6
34	MP2A	X	-60.537	.75
35	MP2A	Z	-34.951	.75
36	MP2A	Mx	.0607	.75
37	MP2A	X	-60.537	6
38	MP2A	Z	-34.951	6
39	MP2A	Mx	.0607	6

**Member Point Loads (BLC 14 : Antenna Wo (330 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-27.151	.75
2	MP4A	Z	-47.028	.75
3	MP4A	Mx	.0233	.75
4	MP4A	X	-27.151	2.75
5	MP4A	Z	-47.028	2.75



**Member Point Loads (BLC 14 : Antenna Wo (330 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
6	MP4A	Mx	.0233	2.75
7	S1	X	-49.398	1
8	S1	Z	-85.561	1
9	S1	Mx	-.0247	1
10	MP3A	X	-27.027	.5
11	MP3A	Z	-46.812	.5
12	MP3A	Mx	-.0135	.5
13	MP4A	X	-26.124	.25
14	MP4A	Z	-45.248	.25
15	MP4A	Mx	-.0131	.25
16	MP1A	X	-66.761	.25
17	MP1A	Z	-115.634	.25
18	MP1A	Mx	.0429	.25
19	MP1A	X	-66.761	4.25
20	MP1A	Z	-115.634	4.25
21	MP1A	Mx	.0429	4.25
22	MP2A	X	-14.995	1
23	MP2A	Z	-25.972	1
24	MP2A	Mx	.0062	1
25	MP2A	X	-14.995	1
26	MP2A	Z	-25.972	1
27	MP2A	Mx	-.0062	1
28	MP2A	X	-40.263	.75
29	MP2A	Z	-69.737	.75
30	MP2A	Mx	-.0092	.75
31	MP2A	X	-40.263	6
32	MP2A	Z	-69.737	6
33	MP2A	Mx	-.0092	6
34	MP2A	X	-40.263	.75
35	MP2A	Z	-69.737	.75
36	MP2A	Mx	.0782	.75
37	MP2A	X	-40.263	6
38	MP2A	Z	-69.737	6
39	MP2A	Mx	.0782	6

**Member Point Loads (BLC 15 : Antenna Wi (0 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	0	.75
2	MP4A	Z	-11.986	.75
3	MP4A	Mx	.0014	.75
4	MP4A	X	0	2.75
5	MP4A	Z	-11.986	2.75
6	MP4A	Mx	.0014	2.75
7	S1	X	0	1
8	S1	Z	-16.518	1
9	S1	Mx	0	1
10	MP3A	X	0	.5
11	MP3A	Z	-10.277	.5
12	MP3A	Mx	0	.5
13	MP4A	X	0	.25
14	MP4A	Z	-10.277	.25
15	MP4A	Mx	0	.25
16	MP1A	X	0	.25
17	MP1A	Z	-20.512	.25
18	MP1A	Mx	.0018	.25
19	MP1A	X	0	4.25

### Member Point Loads (BLC 15 : Antenna Wi (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
20	MP1A	Z	-20.512	4.25
21	MP1A	Mx	.0018	4.25
22	MP2A	X	0	1
23	MP2A	Z	-5.627	1
24	MP2A	Mx	0	1
25	MP2A	X	0	1
26	MP2A	Z	-5.627	1
27	MP2A	Mx	0	1
28	MP2A	X	0	.75
29	MP2A	Z	-24.547	.75
30	MP2A	Mx	-.0143	.75
31	MP2A	X	0	6
32	MP2A	Z	-24.547	6
33	MP2A	Mx	-.0143	6
34	MP2A	X	0	.75
35	MP2A	Z	-24.547	.75
36	MP2A	Mx	.02	.75
37	MP2A	X	0	6
38	MP2A	Z	-24.547	6
39	MP2A	Mx	.02	6

### Member Point Loads (BLC 16 : Antenna Wi (30 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	5.689	.75
2	MP4A	Z	-9.854	.75
3	MP4A	Mx	-.0026	.75
4	MP4A	X	5.689	2.75
5	MP4A	Z	-9.854	2.75
6	MP4A	Mx	-.0026	2.75
7	S1	X	8.835	1
8	S1	Z	-15.303	1
9	S1	Mx	.0044	1
10	MP3A	X	4.747	.5
11	MP3A	Z	-8.222	.5
12	MP3A	Mx	.0024	.5
13	MP4A	X	4.599	.25
14	MP4A	Z	-7.965	.25
15	MP4A	Mx	.0023	.25
16	MP1A	X	9.977	.25
17	MP1A	Z	-17.281	.25
18	MP1A	Mx	-.0034	.25
19	MP1A	X	9.977	4.25
20	MP1A	Z	-17.281	4.25
21	MP1A	Mx	-.0034	4.25
22	MP2A	X	2.372	1
23	MP2A	Z	-4.108	1
24	MP2A	Mx	-.000988	1
25	MP2A	X	2.372	1
26	MP2A	Z	-4.108	1
27	MP2A	Mx	.000988	1
28	MP2A	X	12.012	.75
29	MP2A	Z	-20.805	.75
30	MP2A	Mx	-.0215	.75
31	MP2A	X	12.012	6
32	MP2A	Z	-20.805	6
33	MP2A	Mx	-.0215	6



### Member Point Loads (BLC 16 : Antenna Wi (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
34	MP2A	X	12.012	.75
35	MP2A	Z	-20.805	.75
36	MP2A	Mx	.0105	.75
37	MP2A	X	12.012	6
38	MP2A	Z	-20.805	6
39	MP2A	Mx	.0105	6

### Member Point Loads (BLC 17 : Antenna Wi (60 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	7.004	.75
2	MP4A	Z	-4.044	.75
3	MP4A	Mx	-.0041	.75
4	MP4A	X	7.004	2.75
5	MP4A	Z	-4.044	2.75
6	MP4A	Mx	-.0041	2.75
7	S1	X	17.298	1
8	S1	Z	-9.987	1
9	S1	Mx	.0086	1
10	MP3A	X	6.867	.5
11	MP3A	Z	-3.965	.5
12	MP3A	Mx	.0034	.5
13	MP4A	X	6.095	.25
14	MP4A	Z	-3.519	.25
15	MP4A	Mx	.003	.25
16	MP1A	X	14.665	.25
17	MP1A	Z	-8.467	.25
18	MP1A	Mx	-.0065	.25
19	MP1A	X	14.665	4.25
20	MP1A	Z	-8.467	4.25
21	MP1A	Mx	-.0065	4.25
22	MP2A	X	2.579	1
23	MP2A	Z	-1.489	1
24	MP2A	Mx	-.0011	1
25	MP2A	X	2.579	1
26	MP2A	Z	-1.489	1
27	MP2A	Mx	.0011	1
28	MP2A	X	18.354	.75
29	MP2A	Z	-10.597	.75
30	MP2A	Mx	-.0205	.75
31	MP2A	X	18.354	6
32	MP2A	Z	-10.597	6
33	MP2A	Mx	-.0205	6
34	MP2A	X	18.354	.75
35	MP2A	Z	-10.597	.75
36	MP2A	Mx	-.0012	.75
37	MP2A	X	18.354	6
38	MP2A	Z	-10.597	6
39	MP2A	Mx	-.0012	6

### Member Point Loads (BLC 18 : Antenna Wi (90 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	5.404	.75
2	MP4A	Z	0	.75
3	MP4A	Mx	-.0035	.75
4	MP4A	X	5.404	2.75
5	MP4A	Z	0	2.75

**Member Point Loads (BLC 18 : Antenna Wi (90 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
6	MP4A	Mx	-0.035	2.75
7	S1	X	21.126	1
8	S1	Z	0	1
9	S1	Mx	.0106	1
10	MP3A	X	7.147	.5
11	MP3A	Z	0	.5
12	MP3A	Mx	.0036	.5
13	MP4A	X	5.958	.25
14	MP4A	Z	0	.25
15	MP4A	Mx	.003	.25
16	MP1A	X	14.471	.25
17	MP1A	Z	0	.25
18	MP1A	Mx	-0.071	.25
19	MP1A	X	14.471	4.25
20	MP1A	Z	0	4.25
21	MP1A	Mx	-0.071	4.25
22	MP2A	X	2.094	1
23	MP2A	Z	0	1
24	MP2A	Mx	-0.00872	1
25	MP2A	X	2.094	1
26	MP2A	Z	0	1
27	MP2A	Mx	.000872	1
28	MP2A	X	18.887	.75
29	MP2A	Z	0	.75
30	MP2A	Mx	-0.147	.75
31	MP2A	X	18.887	6
32	MP2A	Z	0	6
33	MP2A	Mx	-0.147	6
34	MP2A	X	18.887	.75
35	MP2A	Z	0	.75
36	MP2A	Mx	-0.101	.75
37	MP2A	X	18.887	6
38	MP2A	Z	0	6
39	MP2A	Mx	-0.101	6

**Member Point Loads (BLC 19 : Antenna Wi (120 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	5.207	.75
2	MP4A	Z	3.006	.75
3	MP4A	Mx	-0.038	.75
4	MP4A	X	5.207	2.75
5	MP4A	Z	3.006	2.75
6	MP4A	Mx	-0.038	2.75
7	S1	X	17.298	1
8	S1	Z	9.987	1
9	S1	Mx	.0086	1
10	MP3A	X	6.867	.5
11	MP3A	Z	3.965	.5
12	MP3A	Mx	.0034	.5
13	MP4A	X	6.095	.25
14	MP4A	Z	3.519	.25
15	MP4A	Mx	.003	.25
16	MP1A	X	13.016	.25
17	MP1A	Z	7.515	.25
18	MP1A	Mx	-0.071	.25
19	MP1A	X	13.016	4.25



**Member Point Loads (BLC 19 : Antenna Wi (120 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
20	MP1A	Z	7.515	4.25
21	MP1A	Mx	-.0071	4.25
22	MP2A	X	2.579	1
23	MP2A	Z	1.489	1
24	MP2A	Mx	-.0011	1
25	MP2A	X	2.579	1
26	MP2A	Z	1.489	1
27	MP2A	Mx	.0011	1
28	MP2A	X	16.809	.75
29	MP2A	Z	9.705	.75
30	MP2A	Mx	-.0075	.75
31	MP2A	X	16.809	6
32	MP2A	Z	9.705	6
33	MP2A	Mx	-.0075	6
34	MP2A	X	16.809	.75
35	MP2A	Z	9.705	.75
36	MP2A	Mx	-.0169	.75
37	MP2A	X	16.809	6
38	MP2A	Z	9.705	6
39	MP2A	Mx	-.0169	6

**Member Point Loads (BLC 20 : Antenna Wi (150 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	4.652	.75
2	MP4A	Z	8.057	.75
3	MP4A	Mx	-.004	.75
4	MP4A	X	4.652	2.75
5	MP4A	Z	8.057	2.75
6	MP4A	Mx	-.004	2.75
7	S1	X	8.835	1
8	S1	Z	15.303	1
9	S1	Mx	.0044	1
10	MP3A	X	4.747	.5
11	MP3A	Z	8.222	.5
12	MP3A	Mx	.0024	.5
13	MP4A	X	4.599	.25
14	MP4A	Z	7.965	.25
15	MP4A	Mx	.0023	.25
16	MP1A	X	9.025	.25
17	MP1A	Z	15.632	.25
18	MP1A	Mx	-.0058	.25
19	MP1A	X	9.025	4.25
20	MP1A	Z	15.632	4.25
21	MP1A	Mx	-.0058	4.25
22	MP2A	X	2.372	1
23	MP2A	Z	4.108	1
24	MP2A	Mx	-.000988	1
25	MP2A	X	2.372	1
26	MP2A	Z	4.108	1
27	MP2A	Mx	.000988	1
28	MP2A	X	11.12	.75
29	MP2A	Z	19.26	.75
30	MP2A	Mx	.0025	.75
31	MP2A	X	11.12	6
32	MP2A	Z	19.26	6
33	MP2A	Mx	.0025	6

### Member Point Loads (BLC 20 : Antenna Wi (150 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
34	MP2A	X	11.12	.75
35	MP2A	Z	19.26	.75
36	MP2A	Mx	-.0216	.75
37	MP2A	X	11.12	6
38	MP2A	Z	19.26	6
39	MP2A	Mx	-.0216	6

### Member Point Loads (BLC 21 : Antenna Wi (180 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	0	.75
2	MP4A	Z	11.986	.75
3	MP4A	Mx	-.0014	.75
4	MP4A	X	0	2.75
5	MP4A	Z	11.986	2.75
6	MP4A	Mx	-.0014	2.75
7	S1	X	0	1
8	S1	Z	16.518	1
9	S1	Mx	0	1
10	MP3A	X	0	.5
11	MP3A	Z	10.277	.5
12	MP3A	Mx	0	.5
13	MP4A	X	0	.25
14	MP4A	Z	10.277	.25
15	MP4A	Mx	0	.25
16	MP1A	X	0	.25
17	MP1A	Z	20.512	.25
18	MP1A	Mx	-.0018	.25
19	MP1A	X	0	4.25
20	MP1A	Z	20.512	4.25
21	MP1A	Mx	-.0018	4.25
22	MP2A	X	0	1
23	MP2A	Z	5.627	1
24	MP2A	Mx	0	1
25	MP2A	X	0	1
26	MP2A	Z	5.627	1
27	MP2A	Mx	0	1
28	MP2A	X	0	.75
29	MP2A	Z	24.547	.75
30	MP2A	Mx	.0143	.75
31	MP2A	X	0	6
32	MP2A	Z	24.547	6
33	MP2A	Mx	.0143	6
34	MP2A	X	0	.75
35	MP2A	Z	24.547	.75
36	MP2A	Mx	-.02	.75
37	MP2A	X	0	6
38	MP2A	Z	24.547	6
39	MP2A	Mx	-.02	6

### Member Point Loads (BLC 22 : Antenna Wi (210 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-5.689	.75
2	MP4A	Z	9.854	.75
3	MP4A	Mx	.0026	.75
4	MP4A	X	-5.689	2.75
5	MP4A	Z	9.854	2.75



### Member Point Loads (BLC 22 : Antenna Wi (210 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
6	MP4A	Mx	.0026	2.75
7	S1	X	-8.835	1
8	S1	Z	15.303	1
9	S1	Mx	-.0044	1
10	MP3A	X	-4.747	.5
11	MP3A	Z	8.222	.5
12	MP3A	Mx	-.0024	.5
13	MP4A	X	-4.599	.25
14	MP4A	Z	7.965	.25
15	MP4A	Mx	-.0023	.25
16	MP1A	X	-9.977	.25
17	MP1A	Z	17.281	.25
18	MP1A	Mx	.0034	.25
19	MP1A	X	-9.977	4.25
20	MP1A	Z	17.281	4.25
21	MP1A	Mx	.0034	4.25
22	MP2A	X	-2.372	1
23	MP2A	Z	4.108	1
24	MP2A	Mx	.000988	1
25	MP2A	X	-2.372	1
26	MP2A	Z	4.108	1
27	MP2A	Mx	-.000988	1
28	MP2A	X	-12.012	.75
29	MP2A	Z	20.805	.75
30	MP2A	Mx	.0215	.75
31	MP2A	X	-12.012	6
32	MP2A	Z	20.805	6
33	MP2A	Mx	.0215	6
34	MP2A	X	-12.012	.75
35	MP2A	Z	20.805	.75
36	MP2A	Mx	-.0105	.75
37	MP2A	X	-12.012	6
38	MP2A	Z	20.805	6
39	MP2A	Mx	-.0105	6

### Member Point Loads (BLC 23 : Antenna Wi (240 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-7.004	.75
2	MP4A	Z	4.044	.75
3	MP4A	Mx	.0041	.75
4	MP4A	X	-7.004	2.75
5	MP4A	Z	4.044	2.75
6	MP4A	Mx	.0041	2.75
7	S1	X	-17.298	1
8	S1	Z	9.987	1
9	S1	Mx	-.0086	1
10	MP3A	X	-6.867	.5
11	MP3A	Z	3.965	.5
12	MP3A	Mx	-.0034	.5
13	MP4A	X	-6.095	.25
14	MP4A	Z	3.519	.25
15	MP4A	Mx	-.003	.25
16	MP1A	X	-14.665	.25
17	MP1A	Z	8.467	.25
18	MP1A	Mx	.0065	.25
19	MP1A	X	-14.665	4.25

**Member Point Loads (BLC 23 : Antenna Wi (240 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
20	MP1A	Z	8.467	4.25
21	MP1A	Mx	.0065	4.25
22	MP2A	X	-2.579	1
23	MP2A	Z	1.489	1
24	MP2A	Mx	.0011	1
25	MP2A	X	-2.579	1
26	MP2A	Z	1.489	1
27	MP2A	Mx	-.0011	1
28	MP2A	X	-18.354	.75
29	MP2A	Z	10.597	.75
30	MP2A	Mx	.0205	.75
31	MP2A	X	-18.354	6
32	MP2A	Z	10.597	6
33	MP2A	Mx	.0205	6
34	MP2A	X	-18.354	.75
35	MP2A	Z	10.597	.75
36	MP2A	Mx	.0012	.75
37	MP2A	X	-18.354	6
38	MP2A	Z	10.597	6
39	MP2A	Mx	.0012	6

**Member Point Loads (BLC 24 : Antenna Wi (270 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	-5.404	.75
2	MP4A	Z	0	.75
3	MP4A	Mx	.0035	.75
4	MP4A	X	-5.404	2.75
5	MP4A	Z	0	2.75
6	MP4A	Mx	.0035	2.75
7	S1	X	-21.126	1
8	S1	Z	0	1
9	S1	Mx	-.0106	1
10	MP3A	X	-7.147	.5
11	MP3A	Z	0	.5
12	MP3A	Mx	-.0036	.5
13	MP4A	X	-5.958	.25
14	MP4A	Z	0	.25
15	MP4A	Mx	-.003	.25
16	MP1A	X	-14.471	.25
17	MP1A	Z	0	.25
18	MP1A	Mx	.0071	.25
19	MP1A	X	-14.471	4.25
20	MP1A	Z	0	4.25
21	MP1A	Mx	.0071	4.25
22	MP2A	X	-2.094	1
23	MP2A	Z	0	1
24	MP2A	Mx	.000872	1
25	MP2A	X	-2.094	1
26	MP2A	Z	0	1
27	MP2A	Mx	-.000872	1
28	MP2A	X	-18.887	.75
29	MP2A	Z	0	.75
30	MP2A	Mx	.0147	.75
31	MP2A	X	-18.887	6
32	MP2A	Z	0	6
33	MP2A	Mx	.0147	6



### Member Point Loads (BLC 24 : Antenna Wi (270 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
34	MP2A	X	-18.887	.75
35	MP2A	Z	0	.75
36	MP2A	Mx	.0101	.75
37	MP2A	X	-18.887	6
38	MP2A	Z	0	6
39	MP2A	Mx	.0101	6

### Member Point Loads (BLC 25 : Antenna Wi (300 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-5.207	.75
2	MP4A	Z	-3.006	.75
3	MP4A	Mx	.0038	.75
4	MP4A	X	-5.207	2.75
5	MP4A	Z	-3.006	2.75
6	MP4A	Mx	.0038	2.75
7	S1	X	-17.298	1
8	S1	Z	-9.987	1
9	S1	Mx	-.0086	1
10	MP3A	X	-6.867	.5
11	MP3A	Z	-3.965	.5
12	MP3A	Mx	-.0034	.5
13	MP4A	X	-6.095	.25
14	MP4A	Z	-3.519	.25
15	MP4A	Mx	-.003	.25
16	MP1A	X	-13.016	.25
17	MP1A	Z	-7.515	.25
18	MP1A	Mx	.0071	.25
19	MP1A	X	-13.016	4.25
20	MP1A	Z	-7.515	4.25
21	MP1A	Mx	.0071	4.25
22	MP2A	X	-2.579	1
23	MP2A	Z	-1.489	1
24	MP2A	Mx	.0011	1
25	MP2A	X	-2.579	1
26	MP2A	Z	-1.489	1
27	MP2A	Mx	-.0011	1
28	MP2A	X	-16.809	.75
29	MP2A	Z	-9.705	.75
30	MP2A	Mx	.0075	.75
31	MP2A	X	-16.809	6
32	MP2A	Z	-9.705	6
33	MP2A	Mx	.0075	6
34	MP2A	X	-16.809	.75
35	MP2A	Z	-9.705	.75
36	MP2A	Mx	.0169	.75
37	MP2A	X	-16.809	6
38	MP2A	Z	-9.705	6
39	MP2A	Mx	.0169	6

### Member Point Loads (BLC 26 : Antenna Wi (330 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-4.652	.75
2	MP4A	Z	-8.057	.75
3	MP4A	Mx	.004	.75
4	MP4A	X	-4.652	2.75
5	MP4A	Z	-8.057	2.75

**Member Point Loads (BLC 26 : Antenna Wi (330 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
6	MP4A	Mx	.004	2.75
7	S1	X	-8.835	1
8	S1	Z	-15.303	1
9	S1	Mx	-.0044	1
10	MP3A	X	-4.747	.5
11	MP3A	Z	-8.222	.5
12	MP3A	Mx	-.0024	.5
13	MP4A	X	-4.599	.25
14	MP4A	Z	-7.965	.25
15	MP4A	Mx	-.0023	.25
16	MP1A	X	-9.025	.25
17	MP1A	Z	-15.632	.25
18	MP1A	Mx	.0058	.25
19	MP1A	X	-9.025	4.25
20	MP1A	Z	-15.632	4.25
21	MP1A	Mx	.0058	4.25
22	MP2A	X	-2.372	1
23	MP2A	Z	-4.108	1
24	MP2A	Mx	.000988	1
25	MP2A	X	-2.372	1
26	MP2A	Z	-4.108	1
27	MP2A	Mx	-.000988	1
28	MP2A	X	-11.12	.75
29	MP2A	Z	-19.26	.75
30	MP2A	Mx	-.0025	.75
31	MP2A	X	-11.12	6
32	MP2A	Z	-19.26	6
33	MP2A	Mx	-.0025	6
34	MP2A	X	-11.12	.75
35	MP2A	Z	-19.26	.75
36	MP2A	Mx	.0216	.75
37	MP2A	X	-11.12	6
38	MP2A	Z	-19.26	6
39	MP2A	Mx	.0216	6

**Member Point Loads (BLC 27 : Antenna Wm (0 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	0	.75
2	MP4A	Z	-4.968	.75
3	MP4A	Mx	.000575	.75
4	MP4A	X	0	2.75
5	MP4A	Z	-4.968	2.75
6	MP4A	Mx	.000575	2.75
7	S1	X	0	1
8	S1	Z	-6.232	1
9	S1	Mx	0	1
10	MP3A	X	0	.5
11	MP3A	Z	-4.008	.5
12	MP3A	Mx	0	.5
13	MP4A	X	0	.25
14	MP4A	Z	-4.008	.25
15	MP4A	Mx	0	.25
16	MP1A	X	0	.25
17	MP1A	Z	-10.456	.25
18	MP1A	Mx	.000908	.25
19	MP1A	X	0	4.25



**Member Point Loads (BLC 27 : Antenna Wm (0 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
20	MP1A	Z	-10.456	4.25
21	MP1A	Mx	.000908	4.25
22	MP2A	X	0	1
23	MP2A	Z	-2.474	1
24	MP2A	Mx	0	1
25	MP2A	X	0	1
26	MP2A	Z	-2.474	1
27	MP2A	Mx	0	1
28	MP2A	X	0	.75
29	MP2A	Z	-6.069	.75
30	MP2A	Mx	-.0035	.75
31	MP2A	X	0	6
32	MP2A	Z	-6.069	6
33	MP2A	Mx	-.0035	6
34	MP2A	X	0	.75
35	MP2A	Z	-6.069	.75
36	MP2A	Mx	.0049	.75
37	MP2A	X	0	6
38	MP2A	Z	-6.069	6
39	MP2A	Mx	.0049	6

**Member Point Loads (BLC 28 : Antenna Wm (30 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	2.34	.75
2	MP4A	Z	-4.053	.75
3	MP4A	Mx	-.0011	.75
4	MP4A	X	2.34	2.75
5	MP4A	Z	-4.053	2.75
6	MP4A	Mx	-.0011	2.75
7	S1	X	3.362	1
8	S1	Z	-5.823	1
9	S1	Mx	.0017	1
10	MP3A	X	1.839	.5
11	MP3A	Z	-3.186	.5
12	MP3A	Mx	.00092	.5
13	MP4A	X	1.778	.25
14	MP4A	Z	-3.079	.25
15	MP4A	Mx	.000889	.25
16	MP1A	X	5.073	.25
17	MP1A	Z	-8.786	.25
18	MP1A	Mx	-.0017	.25
19	MP1A	X	5.073	4.25
20	MP1A	Z	-8.786	4.25
21	MP1A	Mx	-.0017	4.25
22	MP2A	X	1.02	1
23	MP2A	Z	-1.767	1
24	MP2A	Mx	-.000425	1
25	MP2A	X	1.02	1
26	MP2A	Z	-1.767	1
27	MP2A	Mx	.000425	1
28	MP2A	X	2.968	.75
29	MP2A	Z	-5.14	.75
30	MP2A	Mx	-.0053	.75
31	MP2A	X	2.968	6
32	MP2A	Z	-5.14	6
33	MP2A	Mx	-.0053	6

### Member Point Loads (BLC 28 : Antenna Wm (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
34	MP2A	X	2.968	.75
35	MP2A	Z	-5.14	.75
36	MP2A	Mx	.0026	.75
37	MP2A	X	2.968	6
38	MP2A	Z	-5.14	6
39	MP2A	Mx	.0026	6

### Member Point Loads (BLC 29 : Antenna Wm (60 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	2.701	.75
2	MP4A	Z	-1.559	.75
3	MP4A	Mx	-.0016	.75
4	MP4A	X	2.701	2.75
5	MP4A	Z	-1.559	2.75
6	MP4A	Mx	-.0016	2.75
7	S1	X	6.674	1
8	S1	Z	-3.853	1
9	S1	Mx	.0033	1
10	MP3A	X	2.615	.5
11	MP3A	Z	-1.51	.5
12	MP3A	Mx	.0013	.5
13	MP4A	X	2.295	.25
14	MP4A	Z	-1.325	.25
15	MP4A	Mx	.0011	.25
16	MP1A	X	7.332	.25
17	MP1A	Z	-4.233	.25
18	MP1A	Mx	-.0032	.25
19	MP1A	X	7.332	4.25
20	MP1A	Z	-4.233	4.25
21	MP1A	Mx	-.0032	4.25
22	MP2A	X	1.017	1
23	MP2A	Z	-.587	1
24	MP2A	Mx	-.000424	1
25	MP2A	X	1.017	1
26	MP2A	Z	-.587	1
27	MP2A	Mx	.000424	1
28	MP2A	X	4.514	.75
29	MP2A	Z	-2.606	.75
30	MP2A	Mx	-.005	.75
31	MP2A	X	4.514	6
32	MP2A	Z	-2.606	6
33	MP2A	Mx	-.005	6
34	MP2A	X	4.514	.75
35	MP2A	Z	-2.606	.75
36	MP2A	Mx	-.000289	.75
37	MP2A	X	4.514	6
38	MP2A	Z	-2.606	6
39	MP2A	Mx	-.000289	6

### Member Point Loads (BLC 30 : Antenna Wm (90 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	1.846	.75
2	MP4A	Z	0	.75
3	MP4A	Mx	-.0012	.75
4	MP4A	X	1.846	2.75
5	MP4A	Z	0	2.75



**Member Point Loads (BLC 30 : Antenna Wm (90 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
6	MP4A	Mx	-.0012	2.75
7	S1	X	8.197	1
8	S1	Z	0	1
9	S1	Mx	.0041	1
10	MP3A	X	2.689	.5
11	MP3A	Z	0	.5
12	MP3A	Mx	.0013	.5
13	MP4A	X	2.198	.25
14	MP4A	Z	0	.25
15	MP4A	Mx	.0011	.25
16	MP1A	X	7.097	.25
17	MP1A	Z	0	.25
18	MP1A	Mx	-.0035	.25
19	MP1A	X	7.097	4.25
20	MP1A	Z	0	4.25
21	MP1A	Mx	-.0035	4.25
22	MP2A	X	.74	1
23	MP2A	Z	0	1
24	MP2A	Mx	-.000308	1
25	MP2A	X	.74	1
26	MP2A	Z	0	1
27	MP2A	Mx	.000308	1
28	MP2A	X	4.623	.75
29	MP2A	Z	0	.75
30	MP2A	Mx	-.0036	.75
31	MP2A	X	4.623	6
32	MP2A	Z	0	6
33	MP2A	Mx	-.0036	6
34	MP2A	X	4.623	.75
35	MP2A	Z	0	.75
36	MP2A	Mx	-.0025	.75
37	MP2A	X	4.623	6
38	MP2A	Z	0	6
39	MP2A	Mx	-.0025	6

**Member Point Loads (BLC 31 : Antenna Wm (120 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	1.848	.75
2	MP4A	Z	1.067	.75
3	MP4A	Mx	-.0013	.75
4	MP4A	X	1.848	2.75
5	MP4A	Z	1.067	2.75
6	MP4A	Mx	-.0013	2.75
7	S1	X	6.674	1
8	S1	Z	3.853	1
9	S1	Mx	.0033	1
10	MP3A	X	2.615	.5
11	MP3A	Z	1.51	.5
12	MP3A	Mx	.0013	.5
13	MP4A	X	2.295	.25
14	MP4A	Z	1.325	.25
15	MP4A	Mx	.0011	.25
16	MP1A	X	6.415	.25
17	MP1A	Z	3.704	.25
18	MP1A	Mx	-.0035	.25
19	MP1A	X	6.415	4.25

**Member Point Loads (BLC 31 : Antenna Wm (120 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
20	MP1A	Z	3.704	4.25
21	MP1A	Mx	-.0035	4.25
22	MP2A	X	1.017	1
23	MP2A	Z	.587	1
24	MP2A	Mx	-.000424	1
25	MP2A	X	1.017	1
26	MP2A	Z	.587	1
27	MP2A	Mx	.000424	1
28	MP2A	X	4.12	.75
29	MP2A	Z	2.379	.75
30	MP2A	Mx	-.0018	.75
31	MP2A	X	4.12	6
32	MP2A	Z	2.379	6
33	MP2A	Mx	-.0018	6
34	MP2A	X	4.12	.75
35	MP2A	Z	2.379	.75
36	MP2A	Mx	-.0041	.75
37	MP2A	X	4.12	6
38	MP2A	Z	2.379	6
39	MP2A	Mx	-.0041	6

**Member Point Loads (BLC 32 : Antenna Wm (150 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	1.848	.75
2	MP4A	Z	3.2	.75
3	MP4A	Mx	-.0016	.75
4	MP4A	X	1.848	2.75
5	MP4A	Z	3.2	2.75
6	MP4A	Mx	-.0016	2.75
7	S1	X	3.362	1
8	S1	Z	5.823	1
9	S1	Mx	.0017	1
10	MP3A	X	1.839	.5
11	MP3A	Z	3.186	.5
12	MP3A	Mx	.00092	.5
13	MP4A	X	1.778	.25
14	MP4A	Z	3.079	.25
15	MP4A	Mx	.000889	.25
16	MP1A	X	4.543	.25
17	MP1A	Z	7.869	.25
18	MP1A	Mx	-.0029	.25
19	MP1A	X	4.543	4.25
20	MP1A	Z	7.869	4.25
21	MP1A	Mx	-.0029	4.25
22	MP2A	X	1.02	1
23	MP2A	Z	1.767	1
24	MP2A	Mx	-.000425	1
25	MP2A	X	1.02	1
26	MP2A	Z	1.767	1
27	MP2A	Mx	.000425	1
28	MP2A	X	2.74	.75
29	MP2A	Z	4.746	.75
30	MP2A	Mx	.000625	.75
31	MP2A	X	2.74	6
32	MP2A	Z	4.746	6
33	MP2A	Mx	.000625	6



### Member Point Loads (BLC 32 : Antenna Wm (150 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
34	MP2A	X	2.74	.75
35	MP2A	Z	4.746	.75
36	MP2A	Mx	-.0053	.75
37	MP2A	X	2.74	6
38	MP2A	Z	4.746	6
39	MP2A	Mx	-.0053	6

### Member Point Loads (BLC 33 : Antenna Wm (180 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	0	.75
2	MP4A	Z	4.968	.75
3	MP4A	Mx	-.000575	.75
4	MP4A	X	0	2.75
5	MP4A	Z	4.968	2.75
6	MP4A	Mx	-.000575	2.75
7	S1	X	0	1
8	S1	Z	6.232	1
9	S1	Mx	0	1
10	MP3A	X	0	.5
11	MP3A	Z	4.008	.5
12	MP3A	Mx	0	.5
13	MP4A	X	0	.25
14	MP4A	Z	4.008	.25
15	MP4A	Mx	0	.25
16	MP1A	X	0	.25
17	MP1A	Z	10.456	.25
18	MP1A	Mx	-.000908	.25
19	MP1A	X	0	4.25
20	MP1A	Z	10.456	4.25
21	MP1A	Mx	-.000908	4.25
22	MP2A	X	0	1
23	MP2A	Z	2.474	1
24	MP2A	Mx	0	1
25	MP2A	X	0	1
26	MP2A	Z	2.474	1
27	MP2A	Mx	0	1
28	MP2A	X	0	.75
29	MP2A	Z	6.069	.75
30	MP2A	Mx	.0035	.75
31	MP2A	X	0	6
32	MP2A	Z	6.069	6
33	MP2A	Mx	.0035	6
34	MP2A	X	0	.75
35	MP2A	Z	6.069	.75
36	MP2A	Mx	-.0049	.75
37	MP2A	X	0	6
38	MP2A	Z	6.069	6
39	MP2A	Mx	-.0049	6

### Member Point Loads (BLC 34 : Antenna Wm (210 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-2.34	.75
2	MP4A	Z	4.053	.75
3	MP4A	Mx	.0011	.75
4	MP4A	X	-2.34	2.75
5	MP4A	Z	4.053	2.75



**Member Point Loads (BLC 34 : Antenna Wm (210 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
6	MP4A	Mx	.0011	2.75
7	S1	X	-3.362	1
8	S1	Z	5.823	1
9	S1	Mx	-.0017	1
10	MP3A	X	-1.839	.5
11	MP3A	Z	3.186	.5
12	MP3A	Mx	-.00092	.5
13	MP4A	X	-1.778	.25
14	MP4A	Z	3.079	.25
15	MP4A	Mx	-.000889	.25
16	MP1A	X	-5.073	.25
17	MP1A	Z	8.786	.25
18	MP1A	Mx	.0017	.25
19	MP1A	X	-5.073	4.25
20	MP1A	Z	8.786	4.25
21	MP1A	Mx	.0017	4.25
22	MP2A	X	-1.02	1
23	MP2A	Z	1.767	1
24	MP2A	Mx	.000425	1
25	MP2A	X	-1.02	1
26	MP2A	Z	1.767	1
27	MP2A	Mx	-.000425	1
28	MP2A	X	-2.968	.75
29	MP2A	Z	5.14	.75
30	MP2A	Mx	.0053	.75
31	MP2A	X	-2.968	6
32	MP2A	Z	5.14	6
33	MP2A	Mx	.0053	6
34	MP2A	X	-2.968	.75
35	MP2A	Z	5.14	.75
36	MP2A	Mx	-.0026	.75
37	MP2A	X	-2.968	6
38	MP2A	Z	5.14	6
39	MP2A	Mx	-.0026	6

**Member Point Loads (BLC 35 : Antenna Wm (240 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	-2.701	.75
2	MP4A	Z	1.559	.75
3	MP4A	Mx	.0016	.75
4	MP4A	X	-2.701	2.75
5	MP4A	Z	1.559	2.75
6	MP4A	Mx	.0016	2.75
7	S1	X	-6.674	1
8	S1	Z	3.853	1
9	S1	Mx	-.0033	1
10	MP3A	X	-2.615	.5
11	MP3A	Z	1.51	.5
12	MP3A	Mx	-.0013	.5
13	MP4A	X	-2.295	.25
14	MP4A	Z	1.325	.25
15	MP4A	Mx	-.0011	.25
16	MP1A	X	-7.332	.25
17	MP1A	Z	4.233	.25
18	MP1A	Mx	.0032	.25
19	MP1A	X	-7.332	4.25

### Member Point Loads (BLC 35 : Antenna Wm (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
20	MP1A	Z	4.233	4.25
21	MP1A	Mx	.0032	4.25
22	MP2A	X	-1.017	1
23	MP2A	Z	.587	1
24	MP2A	Mx	.000424	1
25	MP2A	X	-1.017	1
26	MP2A	Z	.587	1
27	MP2A	Mx	-.000424	1
28	MP2A	X	-4.514	.75
29	MP2A	Z	2.606	.75
30	MP2A	Mx	.005	.75
31	MP2A	X	-4.514	6
32	MP2A	Z	2.606	6
33	MP2A	Mx	.005	6
34	MP2A	X	-4.514	.75
35	MP2A	Z	2.606	.75
36	MP2A	Mx	.000289	.75
37	MP2A	X	-4.514	6
38	MP2A	Z	2.606	6
39	MP2A	Mx	.000289	6

### Member Point Loads (BLC 36 : Antenna Wm (270 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-1.846	.75
2	MP4A	Z	0	.75
3	MP4A	Mx	.0012	.75
4	MP4A	X	-1.846	2.75
5	MP4A	Z	0	2.75
6	MP4A	Mx	.0012	2.75
7	S1	X	-8.197	1
8	S1	Z	0	1
9	S1	Mx	-.0041	1
10	MP3A	X	-2.689	.5
11	MP3A	Z	0	.5
12	MP3A	Mx	-.0013	.5
13	MP4A	X	-2.198	.25
14	MP4A	Z	0	.25
15	MP4A	Mx	-.0011	.25
16	MP1A	X	-7.097	.25
17	MP1A	Z	0	.25
18	MP1A	Mx	.0035	.25
19	MP1A	X	-7.097	4.25
20	MP1A	Z	0	4.25
21	MP1A	Mx	.0035	4.25
22	MP2A	X	-.74	1
23	MP2A	Z	0	1
24	MP2A	Mx	.000308	1
25	MP2A	X	-.74	1
26	MP2A	Z	0	1
27	MP2A	Mx	-.000308	1
28	MP2A	X	-4.623	.75
29	MP2A	Z	0	.75
30	MP2A	Mx	.0036	.75
31	MP2A	X	-4.623	6
32	MP2A	Z	0	6
33	MP2A	Mx	.0036	6



### Member Point Loads (BLC 36 : Antenna Wm (270 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
34	MP2A	X	-4.623	.75
35	MP2A	Z	0	.75
36	MP2A	Mx	.0025	.75
37	MP2A	X	-4.623	6
38	MP2A	Z	0	6
39	MP2A	Mx	.0025	6

### Member Point Loads (BLC 37 : Antenna Wm (300 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-1.848	.75
2	MP4A	Z	-1.067	.75
3	MP4A	Mx	.0013	.75
4	MP4A	X	-1.848	2.75
5	MP4A	Z	-1.067	2.75
6	MP4A	Mx	.0013	2.75
7	S1	X	-6.674	1
8	S1	Z	-3.853	1
9	S1	Mx	-.0033	1
10	MP3A	X	-2.615	.5
11	MP3A	Z	-1.51	.5
12	MP3A	Mx	-.0013	.5
13	MP4A	X	-2.295	.25
14	MP4A	Z	-1.325	.25
15	MP4A	Mx	-.0011	.25
16	MP1A	X	-6.415	.25
17	MP1A	Z	-3.704	.25
18	MP1A	Mx	.0035	.25
19	MP1A	X	-6.415	4.25
20	MP1A	Z	-3.704	4.25
21	MP1A	Mx	.0035	4.25
22	MP2A	X	-1.017	1
23	MP2A	Z	-.587	1
24	MP2A	Mx	.000424	1
25	MP2A	X	-1.017	1
26	MP2A	Z	-.587	1
27	MP2A	Mx	-.000424	1
28	MP2A	X	-4.12	.75
29	MP2A	Z	-2.379	.75
30	MP2A	Mx	.0018	.75
31	MP2A	X	-4.12	6
32	MP2A	Z	-2.379	6
33	MP2A	Mx	.0018	6
34	MP2A	X	-4.12	.75
35	MP2A	Z	-2.379	.75
36	MP2A	Mx	.0041	.75
37	MP2A	X	-4.12	6
38	MP2A	Z	-2.379	6
39	MP2A	Mx	.0041	6

### Member Point Loads (BLC 38 : Antenna Wm (330 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-1.848	.75
2	MP4A	Z	-3.2	.75
3	MP4A	Mx	.0016	.75
4	MP4A	X	-1.848	2.75
5	MP4A	Z	-3.2	2.75

**Member Point Loads (BLC 38 : Antenna Wm (330 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
6	MP4A	Mx	.0016	2.75
7	S1	X	-3.362	1
8	S1	Z	-5.823	1
9	S1	Mx	-.0017	1
10	MP3A	X	-1.839	.5
11	MP3A	Z	-3.186	.5
12	MP3A	Mx	-.00092	.5
13	MP4A	X	-1.778	.25
14	MP4A	Z	-3.079	.25
15	MP4A	Mx	-.000889	.25
16	MP1A	X	-4.543	.25
17	MP1A	Z	-7.869	.25
18	MP1A	Mx	.0029	.25
19	MP1A	X	-4.543	4.25
20	MP1A	Z	-7.869	4.25
21	MP1A	Mx	.0029	4.25
22	MP2A	X	-1.02	1
23	MP2A	Z	-1.767	1
24	MP2A	Mx	.000425	1
25	MP2A	X	-1.02	1
26	MP2A	Z	-1.767	1
27	MP2A	Mx	-.000425	1
28	MP2A	X	-2.74	.75
29	MP2A	Z	-4.746	.75
30	MP2A	Mx	-.000625	.75
31	MP2A	X	-2.74	6
32	MP2A	Z	-4.746	6
33	MP2A	Mx	-.000625	6
34	MP2A	X	-2.74	.75
35	MP2A	Z	-4.746	.75
36	MP2A	Mx	.0053	.75
37	MP2A	X	-2.74	6
38	MP2A	Z	-4.746	6
39	MP2A	Mx	.0053	6

**Member Point Loads (BLC 77 : Lm1)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	A7	Y	-250	0

**Member Point Loads (BLC 78 : Lm2)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M17	Y	-250	0

**Member Point Loads (BLC 79 : Lv1)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	A2	Y	-250	%100

**Member Point Loads (BLC 80 : Lv2)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	A2	Y	-250	%50

**Member Point Loads (BLC 81 : Antenna Ev)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	Y	-1.8396	.75



### Member Point Loads (BLC 81 : Antenna Ev) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
2	MP4A	My	-.0012	.75
3	MP4A	Mz	-.000213	.75
4	MP4A	Y	-1.8396	2.75
5	MP4A	My	-.0012	2.75
6	MP4A	Mz	-.000213	2.75
7	S1	Y	-1.3517	1
8	S1	My	.000676	1
9	S1	Mz	0	1
10	MP3A	Y	-3.5651	.5
11	MP3A	My	.0018	.5
12	MP3A	Mz	0	.5
13	MP4A	Y	-2.9695	.25
14	MP4A	My	.0015	.25
15	MP4A	Mz	0	.25
16	MP1A	Y	-.5555	.25
17	MP1A	My	-.000274	.25
18	MP1A	Mz	-4.8e-5	.25
19	MP1A	Y	-.5555	4.25
20	MP1A	My	-.000274	4.25
21	MP1A	Mz	-4.8e-5	4.25
22	MP2A	Y	-.7434	1
23	MP2A	My	-.00031	1
24	MP2A	Mz	0	1
25	MP2A	Y	-.7434	1
26	MP2A	My	.00031	1
27	MP2A	Mz	0	1
28	MP2A	Y	-1.2672	.75
29	MP2A	My	-.000988	.75
30	MP2A	Mz	.000737	.75
31	MP2A	Y	-1.2672	6
32	MP2A	My	-.000988	6
33	MP2A	Mz	.000737	6
34	MP2A	Y	-1.2672	.75
35	MP2A	My	-.000676	.75
36	MP2A	Mz	-.001	.75
37	MP2A	Y	-1.2672	6
38	MP2A	My	-.000676	6
39	MP2A	Mz	-.001	6

### Member Point Loads (BLC 82 : Antenna Eh (0 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	Z	-4.5989	.75
2	MP4A	Mx	.000532	.75
3	MP4A	Z	-4.5989	2.75
4	MP4A	Mx	.000532	2.75
5	S1	Z	-3.3792	1
6	S1	Mx	0	1
7	MP3A	Z	-8.9126	.5
8	MP3A	Mx	0	.5
9	MP4A	Z	-7.4237	.25
10	MP4A	Mx	0	.25
11	MP1A	Z	-1.3886	.25
12	MP1A	Mx	.000121	.25
13	MP1A	Z	-1.3886	4.25
14	MP1A	Mx	.000121	4.25
15	MP2A	Z	-1.8586	1

### Member Point Loads (BLC 82 : Antenna Eh (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
16	MP2A	Mx	0	1
17	MP2A	Z	-1.8586	1
18	MP2A	Mx	0	1
19	MP2A	Z	-3.168	.75
20	MP2A	Mx	-.0018	.75
21	MP2A	Z	-3.168	6
22	MP2A	Mx	-.0018	6
23	MP2A	Z	-3.168	.75
24	MP2A	Mx	.0026	.75
25	MP2A	Z	-3.168	6
26	MP2A	Mx	.0026	6

### Member Point Loads (BLC 83 : Antenna Eh (90 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	4.5989	.75
2	MP4A	Mx	-.003	.75
3	MP4A	X	4.5989	2.75
4	MP4A	Mx	-.003	2.75
5	S1	X	3.3792	1
6	S1	Mx	.0017	1
7	MP3A	X	8.9126	.5
8	MP3A	Mx	.0045	.5
9	MP4A	X	7.4237	.25
10	MP4A	Mx	.0037	.25
11	MP1A	X	1.3886	.25
12	MP1A	Mx	-.000684	.25
13	MP1A	X	1.3886	4.25
14	MP1A	Mx	-.000684	4.25
15	MP2A	X	1.8586	1
16	MP2A	Mx	-.000774	1
17	MP2A	X	1.8586	1
18	MP2A	Mx	.000774	1
19	MP2A	X	3.168	.75
20	MP2A	Mx	-.0025	.75
21	MP2A	X	3.168	6
22	MP2A	Mx	-.0025	6
23	MP2A	X	3.168	.75
24	MP2A	Mx	-.0017	.75
25	MP2A	X	3.168	6
26	MP2A	Mx	-.0017	6

### Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft.]	End Location[ft.]
1	A1	Y	-9.5274	-9.5274	0	%100
2	A2	Y	-9.5274	-9.5274	0	%100
3	A9	Y	-7.9073	-7.9073	0	%100
4	MP1A	Y	-4.9314	-4.9314	0	%100
5	MP4A	Y	-4.9314	-4.9314	0	%100
6	S1	Y	-4.9314	-4.9314	0	%100
7	MP3A	Y	-4.9314	-4.9314	0	%100
8	MP2A	Y	-5.6316	-5.6316	0	%100
9	M15A	Y	-7.5469	-7.5469	0	%100
10	M16	Y	-6.5069	-6.5069	0	%100



**Member Distributed Loads (BLC 41 : Structure Wo (0 Deg))**

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	A1	X	0	0	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	-15.7817	-15.7817	0	%100
5	A9	X	0	0	0	%100
6	A9	Z	-9.991	-9.991	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	-8.9956	-8.9956	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	-8.9956	-8.9956	0	%100
11	S1	X	0	0	0	%100
12	S1	Z	-7.356	-7.356	0	%100
13	MP3A	X	0	0	0	%100
14	MP3A	Z	-8.9956	-8.9956	0	%100
15	MP2A	X	0	0	0	%100
16	MP2A	Z	-10.8894	-10.8894	0	%100
17	M15A	X	0	0	0	%100
18	M15A	Z	0	0	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	-13.2567	-13.2567	0	%100

**Member Distributed Loads (BLC 42 : Structure Wo (30 Deg))**

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	A1	X	1.4017	1.4017	0	%100
2	A1	Z	-2.4279	-2.4279	0	%100
3	A2	X	5.9181	5.9181	0	%100
4	A2	Z	-10.2505	-10.2505	0	%100
5	A9	X	4.9955	4.9955	0	%100
6	A9	Z	-8.6525	-8.6525	0	%100
7	MP1A	X	4.4978	4.4978	0	%100
8	MP1A	Z	-7.7904	-7.7904	0	%100
9	MP4A	X	4.4978	4.4978	0	%100
10	MP4A	Z	-7.7904	-7.7904	0	%100
11	S1	X	3.678	3.678	0	%100
12	S1	Z	-6.3705	-6.3705	0	%100
13	MP3A	X	4.4978	4.4978	0	%100
14	MP3A	Z	-7.7904	-7.7904	0	%100
15	MP2A	X	5.4447	5.4447	0	%100
16	MP2A	Z	-9.4305	-9.4305	0	%100
17	M15A	X	1.0864	1.0864	0	%100
18	M15A	Z	-1.8816	-1.8816	0	%100
19	M16	X	4.9712	4.9712	0	%100
20	M16	Z	-8.6104	-8.6104	0	%100

**Member Distributed Loads (BLC 43 : Structure Wo (60 Deg))**

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	A1	X	7.2836	7.2836	0	%100
2	A1	Z	-4.2052	-4.2052	0	%100
3	A2	X	3.4168	3.4168	0	%100
4	A2	Z	-1.9727	-1.9727	0	%100
5	A9	X	8.6525	8.6525	0	%100
6	A9	Z	-4.9955	-4.9955	0	%100
7	MP1A	X	7.7904	7.7904	0	%100
8	MP1A	Z	-4.4978	-4.4978	0	%100
9	MP4A	X	7.7904	7.7904	0	%100
10	MP4A	Z	-4.4978	-4.4978	0	%100

**Member Distributed Loads (BLC 43 : Structure Wo (60 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
11	S1	X	6.3705	6.3705	0	%100
12	S1	Z	-3.678	-3.678	0	%100
13	MP3A	X	7.7904	7.7904	0	%100
14	MP3A	Z	-4.4978	-4.4978	0	%100
15	MP2A	X	9.4305	9.4305	0	%100
16	MP2A	Z	-5.4447	-5.4447	0	%100
17	M15A	X	5.6449	5.6449	0	%100
18	M15A	Z	-3.2591	-3.2591	0	%100
19	M16	X	2.8702	2.8702	0	%100
20	M16	Z	-1.6571	-1.6571	0	%100

**Member Distributed Loads (BLC 44 : Structure Wo (90 Deg))**

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	A1	X	11.2138	11.2138	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	0	0	0	%100
5	A9	X	9.991	9.991	0	%100
6	A9	Z	0	0	0	%100
7	MP1A	X	8.9956	8.9956	0	%100
8	MP1A	Z	0	0	0	%100
9	MP4A	X	8.9956	8.9956	0	%100
10	MP4A	Z	0	0	0	%100
11	S1	X	7.356	7.356	0	%100
12	S1	Z	0	0	0	%100
13	MP3A	X	8.9956	8.9956	0	%100
14	MP3A	Z	0	0	0	%100
15	MP2A	X	10.8894	10.8894	0	%100
16	MP2A	Z	0	0	0	%100
17	M15A	X	8.6909	8.6909	0	%100
18	M15A	Z	0	0	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	0	0	0	%100

**Member Distributed Loads (BLC 45 : Structure Wo (120 Deg))**

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	A1	X	7.2836	7.2836	0	%100
2	A1	Z	4.2052	4.2052	0	%100
3	A2	X	3.4168	3.4168	0	%100
4	A2	Z	1.9727	1.9727	0	%100
5	A9	X	8.6525	8.6525	0	%100
6	A9	Z	4.9955	4.9955	0	%100
7	MP1A	X	7.7904	7.7904	0	%100
8	MP1A	Z	4.4978	4.4978	0	%100
9	MP4A	X	7.7904	7.7904	0	%100
10	MP4A	Z	4.4978	4.4978	0	%100
11	S1	X	6.3705	6.3705	0	%100
12	S1	Z	3.678	3.678	0	%100
13	MP3A	X	7.7904	7.7904	0	%100
14	MP3A	Z	4.4978	4.4978	0	%100
15	MP2A	X	9.4305	9.4305	0	%100
16	MP2A	Z	5.4447	5.4447	0	%100
17	M15A	X	5.6449	5.6449	0	%100
18	M15A	Z	3.2591	3.2591	0	%100
19	M16	X	2.8702	2.8702	0	%100
20	M16	Z	1.6571	1.6571	0	%100



### Member Distributed Loads (BLC 46 : Structure Wo (150 Deg))

	Member Label	Direction	Start Magnitude...	End Magnitude[...]	Start Location[ft...	End Location[ft...
1	A1	X	1.4017	1.4017	0	%100
2	A1	Z	2.4279	2.4279	0	%100
3	A2	X	5.9181	5.9181	0	%100
4	A2	Z	10.2505	10.2505	0	%100
5	A9	X	4.9955	4.9955	0	%100
6	A9	Z	8.6525	8.6525	0	%100
7	MP1A	X	4.4978	4.4978	0	%100
8	MP1A	Z	7.7904	7.7904	0	%100
9	MP4A	X	4.4978	4.4978	0	%100
10	MP4A	Z	7.7904	7.7904	0	%100
11	S1	X	3.678	3.678	0	%100
12	S1	Z	6.3705	6.3705	0	%100
13	MP3A	X	4.4978	4.4978	0	%100
14	MP3A	Z	7.7904	7.7904	0	%100
15	MP2A	X	5.4447	5.4447	0	%100
16	MP2A	Z	9.4305	9.4305	0	%100
17	M15A	X	1.0864	1.0864	0	%100
18	M15A	Z	1.8816	1.8816	0	%100
19	M16	X	4.9712	4.9712	0	%100
20	M16	Z	8.6104	8.6104	0	%100

### Member Distributed Loads (BLC 47 : Structure Wo (180 Deg))

	Member Label	Direction	Start Magnitude...	End Magnitude[...]	Start Location[ft...	End Location[ft...
1	A1	X	0	0	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	15.7817	15.7817	0	%100
5	A9	X	0	0	0	%100
6	A9	Z	9.991	9.991	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	8.9956	8.9956	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	8.9956	8.9956	0	%100
11	S1	X	0	0	0	%100
12	S1	Z	7.356	7.356	0	%100
13	MP3A	X	0	0	0	%100
14	MP3A	Z	8.9956	8.9956	0	%100
15	MP2A	X	0	0	0	%100
16	MP2A	Z	10.8894	10.8894	0	%100
17	M15A	X	0	0	0	%100
18	M15A	Z	0	0	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	13.2567	13.2567	0	%100

### Member Distributed Loads (BLC 48 : Structure Wo (210 Deg))

	Member Label	Direction	Start Magnitude...	End Magnitude[...]	Start Location[ft...	End Location[ft...
1	A1	X	-1.4017	-1.4017	0	%100
2	A1	Z	2.4279	2.4279	0	%100
3	A2	X	-5.9181	-5.9181	0	%100
4	A2	Z	10.2505	10.2505	0	%100
5	A9	X	-4.9955	-4.9955	0	%100
6	A9	Z	8.6525	8.6525	0	%100
7	MP1A	X	-4.4978	-4.4978	0	%100
8	MP1A	Z	7.7904	7.7904	0	%100
9	MP4A	X	-4.4978	-4.4978	0	%100
10	MP4A	Z	7.7904	7.7904	0	%100

**Member Distributed Loads (BLC 48 : Structure Wo (210 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
11	S1	X	-3.678	-3.678	0	%100
12	S1	Z	6.3705	6.3705	0	%100
13	MP3A	X	-4.4978	-4.4978	0	%100
14	MP3A	Z	7.7904	7.7904	0	%100
15	MP2A	X	-5.4447	-5.4447	0	%100
16	MP2A	Z	9.4305	9.4305	0	%100
17	M15A	X	-1.0864	-1.0864	0	%100
18	M15A	Z	1.8816	1.8816	0	%100
19	M16	X	-4.9712	-4.9712	0	%100
20	M16	Z	8.6104	8.6104	0	%100

**Member Distributed Loads (BLC 49 : Structure Wo (240 Deg))**

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	A1	X	-7.2836	-7.2836	0	%100
2	A1	Z	4.2052	4.2052	0	%100
3	A2	X	-3.4168	-3.4168	0	%100
4	A2	Z	1.9727	1.9727	0	%100
5	A9	X	-8.6525	-8.6525	0	%100
6	A9	Z	4.9955	4.9955	0	%100
7	MP1A	X	-7.7904	-7.7904	0	%100
8	MP1A	Z	4.4978	4.4978	0	%100
9	MP4A	X	-7.7904	-7.7904	0	%100
10	MP4A	Z	4.4978	4.4978	0	%100
11	S1	X	-6.3705	-6.3705	0	%100
12	S1	Z	3.678	3.678	0	%100
13	MP3A	X	-7.7904	-7.7904	0	%100
14	MP3A	Z	4.4978	4.4978	0	%100
15	MP2A	X	-9.4305	-9.4305	0	%100
16	MP2A	Z	5.4447	5.4447	0	%100
17	M15A	X	-5.6449	-5.6449	0	%100
18	M15A	Z	3.2591	3.2591	0	%100
19	M16	X	-2.8702	-2.8702	0	%100
20	M16	Z	1.6571	1.6571	0	%100

**Member Distributed Loads (BLC 50 : Structure Wo (270 Deg))**

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	A1	X	-11.2138	-11.2138	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	0	0	0	%100
5	A9	X	-9.991	-9.991	0	%100
6	A9	Z	0	0	0	%100
7	MP1A	X	-8.9956	-8.9956	0	%100
8	MP1A	Z	0	0	0	%100
9	MP4A	X	-8.9956	-8.9956	0	%100
10	MP4A	Z	0	0	0	%100
11	S1	X	-7.356	-7.356	0	%100
12	S1	Z	0	0	0	%100
13	MP3A	X	-8.9956	-8.9956	0	%100
14	MP3A	Z	0	0	0	%100
15	MP2A	X	-10.8894	-10.8894	0	%100
16	MP2A	Z	0	0	0	%100
17	M15A	X	-8.6909	-8.6909	0	%100
18	M15A	Z	0	0	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	0	0	0	%100



### Member Distributed Loads (BLC 51 : Structure Wo (300 Deg))

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	A1	X	-7.2836	-7.2836	0	%100
2	A1	Z	-4.2052	-4.2052	0	%100
3	A2	X	-3.4168	-3.4168	0	%100
4	A2	Z	-1.9727	-1.9727	0	%100
5	A9	X	-8.6525	-8.6525	0	%100
6	A9	Z	-4.9955	-4.9955	0	%100
7	MP1A	X	-7.7904	-7.7904	0	%100
8	MP1A	Z	-4.4978	-4.4978	0	%100
9	MP4A	X	-7.7904	-7.7904	0	%100
10	MP4A	Z	-4.4978	-4.4978	0	%100
11	S1	X	-6.3705	-6.3705	0	%100
12	S1	Z	-3.678	-3.678	0	%100
13	MP3A	X	-7.7904	-7.7904	0	%100
14	MP3A	Z	-4.4978	-4.4978	0	%100
15	MP2A	X	-9.4305	-9.4305	0	%100
16	MP2A	Z	-5.4447	-5.4447	0	%100
17	M15A	X	-5.6449	-5.6449	0	%100
18	M15A	Z	-3.2591	-3.2591	0	%100
19	M16	X	-2.8702	-2.8702	0	%100
20	M16	Z	-1.6571	-1.6571	0	%100

### Member Distributed Loads (BLC 52 : Structure Wo (330 Deg))

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	A1	X	-1.4017	-1.4017	0	%100
2	A1	Z	-2.4279	-2.4279	0	%100
3	A2	X	-5.9181	-5.9181	0	%100
4	A2	Z	-10.2505	-10.2505	0	%100
5	A9	X	-4.9955	-4.9955	0	%100
6	A9	Z	-8.6525	-8.6525	0	%100
7	MP1A	X	-4.4978	-4.4978	0	%100
8	MP1A	Z	-7.7904	-7.7904	0	%100
9	MP4A	X	-4.4978	-4.4978	0	%100
10	MP4A	Z	-7.7904	-7.7904	0	%100
11	S1	X	-3.678	-3.678	0	%100
12	S1	Z	-6.3705	-6.3705	0	%100
13	MP3A	X	-4.4978	-4.4978	0	%100
14	MP3A	Z	-7.7904	-7.7904	0	%100
15	MP2A	X	-5.4447	-5.4447	0	%100
16	MP2A	Z	-9.4305	-9.4305	0	%100
17	M15A	X	-1.0864	-1.0864	0	%100
18	M15A	Z	-1.8816	-1.8816	0	%100
19	M16	X	-4.9712	-4.9712	0	%100
20	M16	Z	-8.6104	-8.6104	0	%100

### Member Distributed Loads (BLC 53 : Structure Wi (0 Deg))

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	A1	X	0	0	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	-2.9694	-2.9694	0	%100
5	A9	X	0	0	0	%100
6	A9	Z	-2.1367	-2.1367	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	-2.1458	-2.1458	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	-2.1458	-2.1458	0	%100

### Member Distributed Loads (BLC 53 : Structure Wi (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
11	S1	X	0	0	0	%100
12	S1	Z	-1.7653	-1.7653	0	%100
13	MP3A	X	0	0	0	%100
14	MP3A	Z	-2.1458	-2.1458	0	%100
15	MP2A	X	0	0	0	%100
16	MP2A	Z	-2.3756	-2.3756	0	%100
17	M15A	X	0	0	0	%100
18	M15A	Z	0	0	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	-2.663	-2.663	0	%100

### Member Distributed Loads (BLC 54 : Structure Wi (30 Deg))

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	A1	X	.2662	.2662	0	%100
2	A1	Z	-.461	-.461	0	%100
3	A2	X	1.1135	1.1135	0	%100
4	A2	Z	-1.9287	-1.9287	0	%100
5	A9	X	1.0684	1.0684	0	%100
6	A9	Z	-1.8505	-1.8505	0	%100
7	MP1A	X	1.0729	1.0729	0	%100
8	MP1A	Z	-1.8583	-1.8583	0	%100
9	MP4A	X	1.0729	1.0729	0	%100
10	MP4A	Z	-1.8583	-1.8583	0	%100
11	S1	X	.8827	.8827	0	%100
12	S1	Z	-1.5288	-1.5288	0	%100
13	MP3A	X	1.0729	1.0729	0	%100
14	MP3A	Z	-1.8583	-1.8583	0	%100
15	MP2A	X	1.1878	1.1878	0	%100
16	MP2A	Z	-2.0574	-2.0574	0	%100
17	M15A	X	.2279	.2279	0	%100
18	M15A	Z	-.3947	-.3947	0	%100
19	M16	X	.9986	.9986	0	%100
20	M16	Z	-1.7296	-1.7296	0	%100

### Member Distributed Loads (BLC 55 : Structure Wi (60 Deg))

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	A1	X	1.383	1.383	0	%100
2	A1	Z	-.7985	-.7985	0	%100
3	A2	X	.6429	.6429	0	%100
4	A2	Z	-.3712	-.3712	0	%100
5	A9	X	1.8505	1.8505	0	%100
6	A9	Z	-1.0684	-1.0684	0	%100
7	MP1A	X	1.8583	1.8583	0	%100
8	MP1A	Z	-1.0729	-1.0729	0	%100
9	MP4A	X	1.8583	1.8583	0	%100
10	MP4A	Z	-1.0729	-1.0729	0	%100
11	S1	X	1.5288	1.5288	0	%100
12	S1	Z	-.8827	-.8827	0	%100
13	MP3A	X	1.8583	1.8583	0	%100
14	MP3A	Z	-1.0729	-1.0729	0	%100
15	MP2A	X	2.0574	2.0574	0	%100
16	MP2A	Z	-1.1878	-1.1878	0	%100
17	M15A	X	1.1841	1.1841	0	%100
18	M15A	Z	-.6836	-.6836	0	%100
19	M16	X	.5765	.5765	0	%100
20	M16	Z	-.3329	-.3329	0	%100



### Member Distributed Loads (BLC 56 : Structure Wi (90 Deg))

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	A1	X	2.1293	2.1293	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	0	0	0	%100
5	A9	X	2.1367	2.1367	0	%100
6	A9	Z	0	0	0	%100
7	MP1A	X	2.1458	2.1458	0	%100
8	MP1A	Z	0	0	0	%100
9	MP4A	X	2.1458	2.1458	0	%100
10	MP4A	Z	0	0	0	%100
11	S1	X	1.7653	1.7653	0	%100
12	S1	Z	0	0	0	%100
13	MP3A	X	2.1458	2.1458	0	%100
14	MP3A	Z	0	0	0	%100
15	MP2A	X	2.3756	2.3756	0	%100
16	MP2A	Z	0	0	0	%100
17	M15A	X	1.8231	1.8231	0	%100
18	M15A	Z	0	0	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	0	0	0	%100

### Member Distributed Loads (BLC 57 : Structure Wi (120 Deg))

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	A1	X	1.383	1.383	0	%100
2	A1	Z	.7985	.7985	0	%100
3	A2	X	.6429	.6429	0	%100
4	A2	Z	.3712	.3712	0	%100
5	A9	X	1.8505	1.8505	0	%100
6	A9	Z	1.0684	1.0684	0	%100
7	MP1A	X	1.8583	1.8583	0	%100
8	MP1A	Z	1.0729	1.0729	0	%100
9	MP4A	X	1.8583	1.8583	0	%100
10	MP4A	Z	1.0729	1.0729	0	%100
11	S1	X	1.5288	1.5288	0	%100
12	S1	Z	.8827	.8827	0	%100
13	MP3A	X	1.8583	1.8583	0	%100
14	MP3A	Z	1.0729	1.0729	0	%100
15	MP2A	X	2.0574	2.0574	0	%100
16	MP2A	Z	1.1878	1.1878	0	%100
17	M15A	X	1.1841	1.1841	0	%100
18	M15A	Z	.6836	.6836	0	%100
19	M16	X	.5765	.5765	0	%100
20	M16	Z	.3329	.3329	0	%100

### Member Distributed Loads (BLC 58 : Structure Wi (150 Deg))

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	A1	X	.2662	.2662	0	%100
2	A1	Z	.461	.461	0	%100
3	A2	X	1.1135	1.1135	0	%100
4	A2	Z	1.9287	1.9287	0	%100
5	A9	X	1.0684	1.0684	0	%100
6	A9	Z	1.8505	1.8505	0	%100
7	MP1A	X	1.0729	1.0729	0	%100
8	MP1A	Z	1.8583	1.8583	0	%100
9	MP4A	X	1.0729	1.0729	0	%100
10	MP4A	Z	1.8583	1.8583	0	%100

### Member Distributed Loads (BLC 58 : Structure Wi (150 Deg)) (Continued)

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
11	S1	X	8827	8827	0	%100
12	S1	Z	1.5288	1.5288	0	%100
13	MP3A	X	1.0729	1.0729	0	%100
14	MP3A	Z	1.8583	1.8583	0	%100
15	MP2A	X	1.1878	1.1878	0	%100
16	MP2A	Z	2.0574	2.0574	0	%100
17	M15A	X	2279	2279	0	%100
18	M15A	Z	3947	3947	0	%100
19	M16	X	9986	9986	0	%100
20	M16	Z	1.7296	1.7296	0	%100

### Member Distributed Loads (BLC 59 : Structure Wi (180 Deg))

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	A1	X	0	0	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	2.9694	2.9694	0	%100
5	A9	X	0	0	0	%100
6	A9	Z	2.1367	2.1367	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	2.1458	2.1458	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	2.1458	2.1458	0	%100
11	S1	X	0	0	0	%100
12	S1	Z	1.7653	1.7653	0	%100
13	MP3A	X	0	0	0	%100
14	MP3A	Z	2.1458	2.1458	0	%100
15	MP2A	X	0	0	0	%100
16	MP2A	Z	2.3756	2.3756	0	%100
17	M15A	X	0	0	0	%100
18	M15A	Z	0	0	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	2.663	2.663	0	%100

### Member Distributed Loads (BLC 60 : Structure Wi (210 Deg))

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	A1	X	-2662	-2662	0	%100
2	A1	Z	.461	.461	0	%100
3	A2	X	-1.1135	-1.1135	0	%100
4	A2	Z	1.9287	1.9287	0	%100
5	A9	X	-1.0684	-1.0684	0	%100
6	A9	Z	1.8505	1.8505	0	%100
7	MP1A	X	-1.0729	-1.0729	0	%100
8	MP1A	Z	1.8583	1.8583	0	%100
9	MP4A	X	-1.0729	-1.0729	0	%100
10	MP4A	Z	1.8583	1.8583	0	%100
11	S1	X	-8827	-8827	0	%100
12	S1	Z	1.5288	1.5288	0	%100
13	MP3A	X	-1.0729	-1.0729	0	%100
14	MP3A	Z	1.8583	1.8583	0	%100
15	MP2A	X	-1.1878	-1.1878	0	%100
16	MP2A	Z	2.0574	2.0574	0	%100
17	M15A	X	-2279	-2279	0	%100
18	M15A	Z	3947	3947	0	%100
19	M16	X	-9986	-9986	0	%100
20	M16	Z	1.7296	1.7296	0	%100



### Member Distributed Loads (BLC 61 : Structure Wi (240 Deg))

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	A1	X	-1.383	-1.383	0	%100
2	A1	Z	.7985	.7985	0	%100
3	A2	X	-.6429	-.6429	0	%100
4	A2	Z	.3712	.3712	0	%100
5	A9	X	-1.8505	-1.8505	0	%100
6	A9	Z	1.0684	1.0684	0	%100
7	MP1A	X	-1.8583	-1.8583	0	%100
8	MP1A	Z	1.0729	1.0729	0	%100
9	MP4A	X	-1.8583	-1.8583	0	%100
10	MP4A	Z	1.0729	1.0729	0	%100
11	S1	X	-1.5288	-1.5288	0	%100
12	S1	Z	.8827	.8827	0	%100
13	MP3A	X	-1.8583	-1.8583	0	%100
14	MP3A	Z	1.0729	1.0729	0	%100
15	MP2A	X	-2.0574	-2.0574	0	%100
16	MP2A	Z	1.1878	1.1878	0	%100
17	M15A	X	-1.1841	-1.1841	0	%100
18	M15A	Z	.6836	.6836	0	%100
19	M16	X	-.5765	-.5765	0	%100
20	M16	Z	.3329	.3329	0	%100

### Member Distributed Loads (BLC 62 : Structure Wi (270 Deg))

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	A1	X	-2.1293	-2.1293	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	0	0	0	%100
5	A9	X	-2.1367	-2.1367	0	%100
6	A9	Z	0	0	0	%100
7	MP1A	X	-2.1458	-2.1458	0	%100
8	MP1A	Z	0	0	0	%100
9	MP4A	X	-2.1458	-2.1458	0	%100
10	MP4A	Z	0	0	0	%100
11	S1	X	-1.7653	-1.7653	0	%100
12	S1	Z	0	0	0	%100
13	MP3A	X	-2.1458	-2.1458	0	%100
14	MP3A	Z	0	0	0	%100
15	MP2A	X	-2.3756	-2.3756	0	%100
16	MP2A	Z	0	0	0	%100
17	M15A	X	-1.8231	-1.8231	0	%100
18	M15A	Z	0	0	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	0	0	0	%100

### Member Distributed Loads (BLC 63 : Structure Wi (300 Deg))

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	A1	X	-1.383	-1.383	0	%100
2	A1	Z	-.7985	-.7985	0	%100
3	A2	X	-.6429	-.6429	0	%100
4	A2	Z	-.3712	-.3712	0	%100
5	A9	X	-1.8505	-1.8505	0	%100
6	A9	Z	1.0684	1.0684	0	%100
7	MP1A	X	-1.8583	-1.8583	0	%100
8	MP1A	Z	-1.0729	-1.0729	0	%100
9	MP4A	X	-1.8583	-1.8583	0	%100
10	MP4A	Z	-1.0729	-1.0729	0	%100



**Member Distributed Loads (BLC 63 : Structure Wi (300 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location(ft)	End Location(ft)
11	S1	X	-1.5288	-1.5288	0	%100
12	S1	Z	-8827	-8827	0	%100
13	MP3A	X	-1.8583	-1.8583	0	%100
14	MP3A	Z	-1.0729	-1.0729	0	%100
15	MP2A	X	-2.0574	-2.0574	0	%100
16	MP2A	Z	-1.1878	-1.1878	0	%100
17	M15A	X	-1.1841	-1.1841	0	%100
18	M15A	Z	-6836	-6836	0	%100
19	M16	X	-5765	-5765	0	%100
20	M16	Z	-3329	-3329	0	%100

**Member Distributed Loads (BLC 64 : Structure Wi (330 Deg))**

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location(ft)	End Location(ft)
1	A1	X	-2662	-2662	0	%100
2	A1	Z	-461	-461	0	%100
3	A2	X	-1.1135	-1.1135	0	%100
4	A2	Z	-1.9287	-1.9287	0	%100
5	A9	X	-1.0684	-1.0684	0	%100
6	A9	Z	-1.8505	-1.8505	0	%100
7	MP1A	X	-1.0729	-1.0729	0	%100
8	MP1A	Z	-1.8583	-1.8583	0	%100
9	MP4A	X	-1.0729	-1.0729	0	%100
10	MP4A	Z	-1.8583	-1.8583	0	%100
11	S1	X	-8827	-8827	0	%100
12	S1	Z	-1.5288	-1.5288	0	%100
13	MP3A	X	-1.0729	-1.0729	0	%100
14	MP3A	Z	-1.8583	-1.8583	0	%100
15	MP2A	X	-1.1878	-1.1878	0	%100
16	MP2A	Z	-2.0574	-2.0574	0	%100
17	M15A	X	-2279	-2279	0	%100
18	M15A	Z	-3947	-3947	0	%100
19	M16	X	-9986	-9986	0	%100
20	M16	Z	-1.7296	-1.7296	0	%100

**Member Distributed Loads (BLC 65 : Structure Wm (0 Deg))**

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location(ft)	End Location(ft)
1	A1	X	0	0	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	-1.0775	-1.0775	0	%100
5	A9	X	0	0	0	%100
6	A9	Z	-6821	-6821	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	-6142	-6142	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	-6142	-6142	0	%100
11	S1	X	0	0	0	%100
12	S1	Z	-5022	-5022	0	%100
13	MP3A	X	0	0	0	%100
14	MP3A	Z	-6142	-6142	0	%100
15	MP2A	X	0	0	0	%100
16	MP2A	Z	-7435	-7435	0	%100
17	M15A	X	0	0	0	%100
18	M15A	Z	0	0	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	-9051	-9051	0	%100

### Member Distributed Loads (BLC 66 : Structure Wm (30 Deg))

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	A1	X	.0957	.0957	0	%100
2	A1	Z	-.1658	-.1658	0	%100
3	A2	X	.4041	.4041	0	%100
4	A2	Z	-.6998	-.6998	0	%100
5	A9	X	.3411	.3411	0	%100
6	A9	Z	-.5907	-.5907	0	%100
7	MP1A	X	.3071	.3071	0	%100
8	MP1A	Z	-.5319	-.5319	0	%100
9	MP4A	X	.3071	.3071	0	%100
10	MP4A	Z	-.5319	-.5319	0	%100
11	S1	X	.2511	.2511	0	%100
12	S1	Z	-.4349	-.4349	0	%100
13	MP3A	X	.3071	.3071	0	%100
14	MP3A	Z	-.5319	-.5319	0	%100
15	MP2A	X	.3717	.3717	0	%100
16	MP2A	Z	-.6439	-.6439	0	%100
17	M15A	X	.0742	.0742	0	%100
18	M15A	Z	-.1285	-.1285	0	%100
19	M16	X	.3394	.3394	0	%100
20	M16	Z	-.5879	-.5879	0	%100

### Member Distributed Loads (BLC 67 : Structure Wm (60 Deg))

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	A1	X	.4973	.4973	0	%100
2	A1	Z	-.2871	-.2871	0	%100
3	A2	X	.2333	.2333	0	%100
4	A2	Z	-.1347	-.1347	0	%100
5	A9	X	.5907	.5907	0	%100
6	A9	Z	-.3411	-.3411	0	%100
7	MP1A	X	.5319	.5319	0	%100
8	MP1A	Z	-.3071	-.3071	0	%100
9	MP4A	X	.5319	.5319	0	%100
10	MP4A	Z	-.3071	-.3071	0	%100
11	S1	X	.4349	.4349	0	%100
12	S1	Z	-.2511	-.2511	0	%100
13	MP3A	X	.5319	.5319	0	%100
14	MP3A	Z	-.3071	-.3071	0	%100
15	MP2A	X	.6439	.6439	0	%100
16	MP2A	Z	-.3717	-.3717	0	%100
17	M15A	X	.3854	.3854	0	%100
18	M15A	Z	-.2225	-.2225	0	%100
19	M16	X	.196	.196	0	%100
20	M16	Z	-.1131	-.1131	0	%100

### Member Distributed Loads (BLC 68 : Structure Wm (90 Deg))

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	A1	X	.7656	.7656	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	0	0	0	%100
5	A9	X	.6821	.6821	0	%100
6	A9	Z	0	0	0	%100
7	MP1A	X	.6142	.6142	0	%100
8	MP1A	Z	0	0	0	%100
9	MP4A	X	.6142	.6142	0	%100
10	MP4A	Z	0	0	0	%100



### Member Distributed Loads (BLC 68 : Structure Wm (90 Deg)) (Continued)

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
11	S1	X	.5022	.5022	0	%100
12	S1	Z	0	0	0	%100
13	MP3A	X	.6142	.6142	0	%100
14	MP3A	Z	0	0	0	%100
15	MP2A	X	.7435	.7435	0	%100
16	MP2A	Z	0	0	0	%100
17	M15A	X	.5934	.5934	0	%100
18	M15A	Z	0	0	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	0	0	0	%100

### Member Distributed Loads (BLC 69 : Structure Wm (120 Deg))

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	A1	X	.4973	.4973	0	%100
2	A1	Z	.2871	.2871	0	%100
3	A2	X	.2333	.2333	0	%100
4	A2	Z	.1347	.1347	0	%100
5	A9	X	.5907	.5907	0	%100
6	A9	Z	.3411	.3411	0	%100
7	MP1A	X	.5319	.5319	0	%100
8	MP1A	Z	.3071	.3071	0	%100
9	MP4A	X	.5319	.5319	0	%100
10	MP4A	Z	.3071	.3071	0	%100
11	S1	X	.4349	.4349	0	%100
12	S1	Z	.2511	.2511	0	%100
13	MP3A	X	.5319	.5319	0	%100
14	MP3A	Z	.3071	.3071	0	%100
15	MP2A	X	.6439	.6439	0	%100
16	MP2A	Z	.3717	.3717	0	%100
17	M15A	X	.3854	.3854	0	%100
18	M15A	Z	.2225	.2225	0	%100
19	M16	X	.196	.196	0	%100
20	M16	Z	.1131	.1131	0	%100

### Member Distributed Loads (BLC 70 : Structure Wm (150 Deg))

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	A1	X	.0957	.0957	0	%100
2	A1	Z	.1658	.1658	0	%100
3	A2	X	.4041	.4041	0	%100
4	A2	Z	.6998	.6998	0	%100
5	A9	X	.3411	.3411	0	%100
6	A9	Z	.5907	.5907	0	%100
7	MP1A	X	.3071	.3071	0	%100
8	MP1A	Z	.5319	.5319	0	%100
9	MP4A	X	.3071	.3071	0	%100
10	MP4A	Z	.5319	.5319	0	%100
11	S1	X	.2511	.2511	0	%100
12	S1	Z	.4349	.4349	0	%100
13	MP3A	X	.3071	.3071	0	%100
14	MP3A	Z	.5319	.5319	0	%100
15	MP2A	X	.3717	.3717	0	%100
16	MP2A	Z	.6439	.6439	0	%100
17	M15A	X	.0742	.0742	0	%100
18	M15A	Z	.1285	.1285	0	%100
19	M16	X	.3394	.3394	0	%100
20	M16	Z	.5879	.5879	0	%100



### Member Distributed Loads (BLC 71 : Structure Wm (180 Deg))

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	A1	X	0	0	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	1.0775	1.0775	0	%100
5	A9	X	0	0	0	%100
6	A9	Z	.6821	.6821	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	.6142	.6142	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	.6142	.6142	0	%100
11	S1	X	0	0	0	%100
12	S1	Z	.5022	.5022	0	%100
13	MP3A	X	0	0	0	%100
14	MP3A	Z	.6142	.6142	0	%100
15	MP2A	X	0	0	0	%100
16	MP2A	Z	.7435	.7435	0	%100
17	M15A	X	0	0	0	%100
18	M15A	Z	0	0	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	.9051	.9051	0	%100

### Member Distributed Loads (BLC 72 : Structure Wm (210 Deg))

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	A1	X	-.0957	-.0957	0	%100
2	A1	Z	.1658	.1658	0	%100
3	A2	X	-.4041	-.4041	0	%100
4	A2	Z	.6998	.6998	0	%100
5	A9	X	-.3411	-.3411	0	%100
6	A9	Z	.5907	.5907	0	%100
7	MP1A	X	-.3071	-.3071	0	%100
8	MP1A	Z	.5319	.5319	0	%100
9	MP4A	X	-.3071	-.3071	0	%100
10	MP4A	Z	.5319	.5319	0	%100
11	S1	X	-.2511	-.2511	0	%100
12	S1	Z	.4349	.4349	0	%100
13	MP3A	X	-.3071	-.3071	0	%100
14	MP3A	Z	.5319	.5319	0	%100
15	MP2A	X	-.3717	-.3717	0	%100
16	MP2A	Z	.6439	.6439	0	%100
17	M15A	X	-.0742	-.0742	0	%100
18	M15A	Z	.1285	.1285	0	%100
19	M16	X	-.3394	-.3394	0	%100
20	M16	Z	.5879	.5879	0	%100

### Member Distributed Loads (BLC 73 : Structure Wm (240 Deg))

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	A1	X	-.4973	-.4973	0	%100
2	A1	Z	.2871	.2871	0	%100
3	A2	X	-.2333	-.2333	0	%100
4	A2	Z	.1347	.1347	0	%100
5	A9	X	-.5907	-.5907	0	%100
6	A9	Z	.3411	.3411	0	%100
7	MP1A	X	-.5319	-.5319	0	%100
8	MP1A	Z	.3071	.3071	0	%100
9	MP4A	X	-.5319	-.5319	0	%100
10	MP4A	Z	.3071	.3071	0	%100

**Member Distributed Loads (BLC 73 : Structure Wm (240 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
11	S1	X	- .4349	- .4349	0	%100
12	S1	Z	.2511	.2511	0	%100
13	MP3A	X	- .5319	- .5319	0	%100
14	MP3A	Z	.3071	.3071	0	%100
15	MP2A	X	- .6439	- .6439	0	%100
16	MP2A	Z	.3717	.3717	0	%100
17	M15A	X	- .3854	- .3854	0	%100
18	M15A	Z	.2225	.2225	0	%100
19	M16	X	- .196	- .196	0	%100
20	M16	Z	.1131	.1131	0	%100

**Member Distributed Loads (BLC 74 : Structure Wm (270 Deg))**

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	A1	X	- .7656	- .7656	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	0	0	0	%100
5	A9	X	- .6821	- .6821	0	%100
6	A9	Z	0	0	0	%100
7	MP1A	X	- .6142	- .6142	0	%100
8	MP1A	Z	0	0	0	%100
9	MP4A	X	- .6142	- .6142	0	%100
10	MP4A	Z	0	0	0	%100
11	S1	X	- .5022	- .5022	0	%100
12	S1	Z	0	0	0	%100
13	MP3A	X	- .6142	- .6142	0	%100
14	MP3A	Z	0	0	0	%100
15	MP2A	X	- .7435	- .7435	0	%100
16	MP2A	Z	0	0	0	%100
17	M15A	X	- .5934	- .5934	0	%100
18	M15A	Z	0	0	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	0	0	0	%100

**Member Distributed Loads (BLC 75 : Structure Wm (300 Deg))**

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	A1	X	- .4973	- .4973	0	%100
2	A1	Z	- .2871	- .2871	0	%100
3	A2	X	- .2333	- .2333	0	%100
4	A2	Z	- .1347	- .1347	0	%100
5	A9	X	- .5907	- .5907	0	%100
6	A9	Z	- .3411	- .3411	0	%100
7	MP1A	X	- .5319	- .5319	0	%100
8	MP1A	Z	- .3071	- .3071	0	%100
9	MP4A	X	- .5319	- .5319	0	%100
10	MP4A	Z	- .3071	- .3071	0	%100
11	S1	X	- .4349	- .4349	0	%100
12	S1	Z	- .2511	- .2511	0	%100
13	MP3A	X	- .5319	- .5319	0	%100
14	MP3A	Z	- .3071	- .3071	0	%100
15	MP2A	X	- .6439	- .6439	0	%100
16	MP2A	Z	- .3717	- .3717	0	%100
17	M15A	X	- .3854	- .3854	0	%100
18	M15A	Z	- .2225	- .2225	0	%100
19	M16	X	- .196	- .196	0	%100
20	M16	Z	- .1131	- .1131	0	%100



### Member Distributed Loads (BLC 76 : Structure Wm (330 Deg))

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	A1	X	-.0957	-.0957	0	%100
2	A1	Z	-.1658	-.1658	0	%100
3	A2	X	-.4041	-.4041	0	%100
4	A2	Z	-.6998	-.6998	0	%100
5	A9	X	-.3411	-.3411	0	%100
6	A9	Z	-.5907	-.5907	0	%100
7	MP1A	X	-.3071	-.3071	0	%100
8	MP1A	Z	-.5319	-.5319	0	%100
9	MP4A	X	-.3071	-.3071	0	%100
10	MP4A	Z	-.5319	-.5319	0	%100
11	S1	X	-.2511	-.2511	0	%100
12	S1	Z	-.4349	-.4349	0	%100
13	MP3A	X	-.3071	-.3071	0	%100
14	MP3A	Z	-.5319	-.5319	0	%100
15	MP2A	X	-.3717	-.3717	0	%100
16	MP2A	Z	-.6439	-.6439	0	%100
17	M15A	X	-.0742	-.0742	0	%100
18	M15A	Z	-.1285	-.1285	0	%100
19	M16	X	-.3394	-.3394	0	%100
20	M16	Z	-.5879	-.5879	0	%100

### Member Area Loads

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
No Data to Print ...						

### Envelope Joint Reactions

Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1 A1	582.274	9	1319.417	19	1043.923	13	-.547	1	1.139	9	.55	3
2	-895.928	3	341.599	1	243.124	7	-2.699	19	-1.76	3	-1.381	9
3 N28A	690.938	11	854.174	13	1013.017	1	-.402	65	2.117	9	.368	3
4	-379.983	5	95.81	7	-1892.245	7	-1.231	21	-1.495	3	-.702	9
5 Totals:	1079.615	9	2056.729	14	1649.119	1						
6	-1079.616	3	703.462	72	-1649.121	7						

### Envelope AISC 15th(360-16): LRFD Steel Code Checks

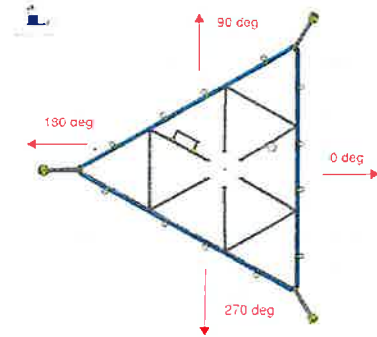
Member	Shape	Code Check	Lo	LC	Shear Check	Lo	LC	phi*Pnc	phi*Pnt	phi*Mn y	phi*Mn z	Cb	Eqn
1 A1	HSS4X4X4	.189	0	17	.121	0	y	33	137249...	139518	16.181	16.181	1.624 H1...
2 A2	HSS4X4X4	.124	5	2	.048	3	z	8	91806.5...	139518	16.181	16.181	1.445 H1...
3 A9	PIPE 4.0	.001	1	9	.000	1		9	91742.2...	93240	10.631	10.631	1.561 H1...
4 MP1A	PIPE 2.0	.170	2	7	.044	2		11	23808.54	32130	1.872	1.872	2.755 H1...
5 MP4A	PIPE 2.0	.200	3	49	.060	3		7	23808.54	32130	1.872	1.872	2.682 H1...
6 S1	PIPE 2.0	.148	3	10	.051	3		10	28843.4...	32130	1.872	1.872	2.325 H1...
7 MP3A	PIPE 2.0	.230	3	15	.086	3		18	23808.54	32130	1.872	1.872	2.539 H1...
8 MP2A	PIPE 2.5	.263	3	8	.119	3		7	30038.4...	50715	3.596	3.596	2.903 H1...
9 M15A	HSS3X3X4	.328	0	9	.114	0	z	9	97966.2...	101016	8.556	8.556	1.621 H1...
10 M16	PIPE 3.0	.321	5	8	.117	5		1	38176.7	65205	5.749	5.749	1.697 H1...



### I. Mount-to-Tower Connection Check (Existing Standoff)

Custom Orientation Required

Yes

[illegible]

### Tower Connection Bolt Checks

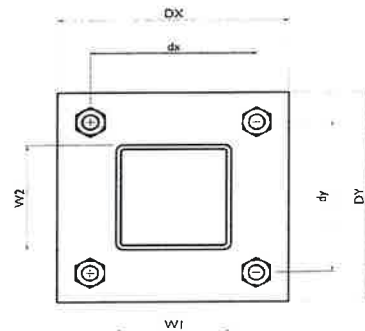
Yes

### Bolt Orientation

### Parallel

Bolt Quantity per Reaction:  
 $d_x$  (in) (*Delta X of typ. bolt config. sketch*):  
 $d_y$  (in) (*Delta Y of typ. bolt config. sketch*):  
 Bolt Type:  
 Bolt Diameter (in):  
 Required Tensile Strength / bolt (kips):  
 Required Shear Strength / bolt (kips):  
 Tensile Capacity / bolt (kips):  
 Shear Capacity / bolt (kips):  
 Bolt Overall Utilization:

4
3
8
A325N
0.75
4.2
0.6
29.8
17.9
14.2%

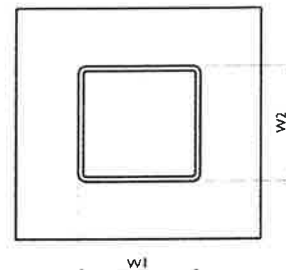


### Tower Connection Baseplate Checks

**Yes**

Connecting Standoff Member Shape:  
Weld Stiffener Configuration:  
Plate Width,  $D_x$  (in):  
Plate Height,  $D_y$  (in):  
 $W1$  (in):  
 $W2$  (in):  
Member Thickness (in):  
Stiffener location  $a_1$  (in):  
Stiffener location  $b_1$  (in):  
Stiffener location  $a_2$  (in):  
Stiffener location  $b_2$  (in):  
 $F_y$  (ksi, plate):  
Plate Thickness (in):  
Length of Yield Line,  $L_y$  (in):  
Bolt Eccentricity,  $e$  (in):  
 $M_u$  (kip-in):  
 $\Phi * M_n$  (kip-in):  
Plate Bending Utilization:

Rect Tube
No Stiffeners
6
10
4
4
0.25
36
0.5
4.90
1.86
7.85
9.92
<b>79.1%</b>



**VzW**  
**SMART Tool**<sup>®</sup>  
**Vendor**

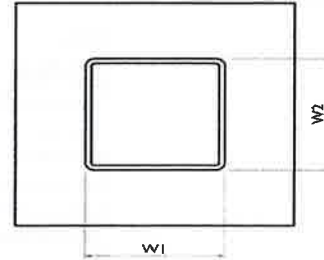
Client: Verizon Wireless Date: 7/19/2023  
 Site Name: NEW MILFORD W CT  
 MDG #: 5000243611  
 Fuze ID #: 17123971 Page: 2

Version 1.01

Tower Connection Weld Checks

Weld Shape:  
 Weld Stiffener Configuration:  
 Weld Size (1/16 in):  
 W1 (in):  
 W2 (in):  
 Weld Total Length (in):  
 $Z_x$  (in<sup>3</sup>/in):  
 $Z_y$  (in<sup>3</sup>/in):  
 $J_p$  (in<sup>4</sup>/in):  
 $c_x$  (in):  
 $c_y$  (in):  
 Required combined strength (kip/in):  
 Weld Capacity (kip/in):  
 Weld Utilization:

Yes
Rectangle
None
4
4
4
16.00
21.33
21.33
85.33
2.25
2.25
1.16
5.57
20.8%



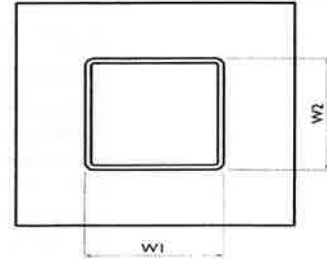




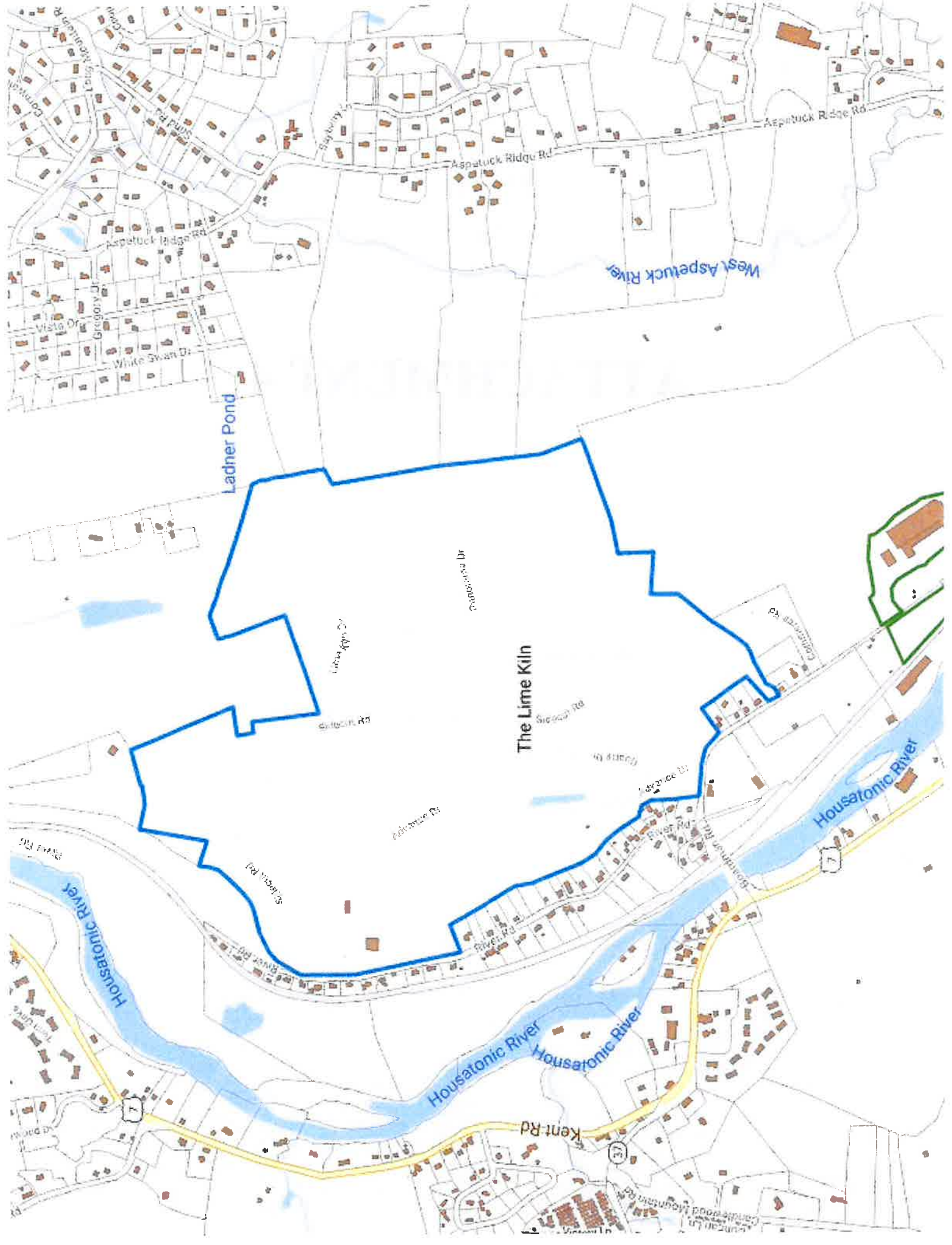
Tower Connection Weld Checks

Weld Shape:  
Weld Stiffener Configuration:  
Weld Size (1/16 in):  
W1 (in):  
W2 (in):  
Weld Total Length (in):  
 $Z_x$  (in<sup>3</sup>/in):  
 $Z_y$  (in<sup>3</sup>/in):  
 $J_p$  (in<sup>4</sup>/in):  
 $c_x$  (in):  
 $c_y$  (in):  
Required combined strength (kip/in):  
Weld Capacity (kip/in):  
Weld Utilization:

Yes
Rectangle
None
5
3
3
12.00
12.00
12.00
36.00
1.75
1.75
1.98
6.96
28.4%



# **ATTACHMENT 4**







## NEW MILFORD,CT

33 BOARDMAN RD

**Location**

33 BOARDMAN RD

**Mblu**

47/ / 73/ /

**Acct#**

005304

**Owner**

QUARRY STONE AND GRAVEL LLC

**Assessment**

\$2,990,290

**Appraisal**

\$5,201,730

**PID**

8323

**Building Count**

2

Current Value

**Appraisal**

Valuation Year	Improvements	Land	Total
2020	\$1,268,700	\$3,933,030	\$5,201,730

**Assessment**

Valuation Year	Improvements	Land	Total
2020	\$888,090	\$2,102,200	\$2,990,290

#### Parcel Addresses

#### Additional Addresses

No Additional Addresses available for this parcel

#### Owner of Record

**Owner** QUARRY STONE AND GRAVEL LLC

**Co-Owner** % O + G INDUSTRIES

**Address** 112 WALL ST  
TORRINGTON, CT 06790

**Sale Price** \$0

#### Certificate

**Book & Page** 0778/0681

**Sale Date** 09/11/2003

**Instrument** 03

#### Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
QUARRY STONE AND GRAVEL LLC	\$0		0778/0681	03	09/11/2003
QUARRY STONE AND GRAVEL LLC	\$0		0765/0512	03	07/08/2003
KOVACS ROBERT G + KOVACS PAUL B + KOVACS	\$0		0705/0499	29	05/23/2002
QUARRY STONE AND GRAVEL LLC	\$0		0690/0804	03	01/09/2002
KOVACS ROGER P + PAUL B + ROBERT G	\$0		0361/0142		12/24/1986



# **ATTACHMENT 5**





Verizon/New Milford West

## Certificate of Mailing — Firm

Name and Address of Sender  Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103		TOTAL NO. of Pieces Listed by Sender  3	TOTAL NO. of Pieces Received at Post Office™  3	Affix Stamp Here <i>Postmark with Date of Receipt.</i>  neopost® 09/11/2023 <b>US POSTAGE \$003.19<sup>0</sup></b>   ZIP 06103 041L12203937			
USPS® Tracking Number Firm-specific Identifier		Address (Name, Street, City, State, and ZIP Code™)		Postage	Fee	Special Handling	Parcel Airlift
1.		Pete Bass, Mayor Town of New Milford 10 Main Street New Milford, CT 06776					
2.		Laura Regan, Town Planner Town of New Milford 10 Main Street New Milford, CT 06776					
3.		Quarry Stone + Gravel, LLC c/o O&G Industries LLC 112 Wall Street Torrington, CT 06790					
4.							
5.							
6.							