

October 23, 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
1247 New Haven Road, Naugatuck, 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 on a tower, attached to a building on the Property and associated equipment on the ground adjacent to the building. The tower and Cellco’s use of the tower was approved by the Siting Council (the “Council”) in August of 2016 (Petition No 1241). A copy of the Petition No. 1241 decision letter and staff report is included in Attachment 1.

Cellco’s proposed modification involves the installation of four (4) interference mitigation filters (“Filters”) on its existing antenna platform and mounting assembly. The Filter specifications are 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 Naugatuck’s Chief Elected Official and Land Use Officer. A copy of this letter is being sent to the owner of the Property.

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

1. The proposed modifications 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 assembly.

Melanie A. Bachman, Esq.

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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 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:

N. Warren "Pete" Hess III, Mayor
Lori Rotella, Town Planner/Wetlands Enforcement Officer
The NHR Property Group LLC, Property Owner
Alex Tyurin, Verizon Wireless

ATTACHMENT 1



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

www.ct.gov/osc

CERTIFIED MAIL

RETURN RECEIPT REQUESTED

August 5, 2016

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

RE: **PETITION NO. 1241** – Cellco Partnership d/b/a Verizon Wireless Petition for a Declaratory Ruling that no Certificate of Environmental Compatibility and Public Need is required for the attachment of a telecommunications facility to the northerly façade of an existing building located at 1247 New Haven Road, Naugatuck, Connecticut.

Dear Attorney Baldwin:

At a public meeting held on August 4, 2016, the Connecticut Siting Council (Council) considered and ruled that the above-referenced proposal would not have a substantial adverse environmental effect, and pursuant to Connecticut General Statutes § 16-50k, would not require a Certificate of Environmental Compatibility and Public Need with the following conditions:

1. Implement erosion and sedimentation control measures (E&S controls) in accordance with the 2002 *Connecticut Guidelines for Soil Erosion and Sediment Control*;
2. Employ a qualified environmental professional to provide environmental compliance awareness training to the contractor and independently inspect erosion controls to document proper installation;
3. Use of off-road construction equipment that meets the latest EPA or California Air Resources Board standards, or in the alternative, equipment with the best available controls on diesel emissions, including, but not limited to, retrofitting with diesel oxidation catalysts, particulate filters and use of ultra-low sulfur fuel;
4. Compliance with the provisions of Section 22a-174-18(b)(3)(C) of the Regulations of Connecticut State Agencies that limit the idling of mobile sources to 3 minutes;
5. Approval of any minor project changes shall be delegated to Council staff;
6. Unless otherwise approved by the Council, if the facility authorized herein is not fully constructed within three years from the date of the mailing of the Council's decision, this decision shall be void, and the facility owner/operator shall dismantle the facility and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made. The time between the filing and resolution of any appeals of the Council's decision shall not be counted in calculating this deadline. Authority to monitor and modify this schedule, as necessary, is delegated to the Executive Director. The facility owner/operator shall provide written notice to the Executive Director of any schedule changes as soon as is practicable;
7. Any request for extension of the time period to fully construct the facility shall be filed with the Council not later than 60 days prior to the expiration date of this decision and shall be served on all parties and intervenors, if applicable, and the Town of Naugatuck;

8. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
9. Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by the Petitioner shall be removed within 60 days of the date the antenna ceased to function;
10. If the facility ceases to provide wireless services for a period of one year the Petitioner shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council within 90 days from the one year period of cessation of service. The Petitioner may submit a written request to the Council for an extension of the 90 day period not later than 60 days prior to the expiration of the 90 day period; and
11. This Declaratory Ruling may be transferred or partially transferred, provided both the facility owner/operator/transferor and the transferee are current with payments to the Council for their respective annual assessments and invoices under Conn. Gen. Stat. §16-50v. The Council shall be notified of such sale and/or transfer and of any change in contact information for the individual or representative responsible for management and operations of the facility within 30 days of the sale and/or transfer. Both the facility owner/operator/transferor and the transferee shall provide the Council with a written agreement as to the entity responsible for any quarterly assessment charges under Conn. Gen. Stat. §16-50v(b)(2) that may be associated with this facility.

This decision is under the exclusive jurisdiction of the Council and is not applicable to any other modification or construction. All work is to be implemented as specified in the petition dated June 29, 2016.

Enclosed for your information is a copy of the staff report on this project.

Very truly yours,



Robert Stein
Chairman

RS/FOC/cm

Enclosure: Staff Report dated August 4, 2016

c: The Honorable N. Warren Hess, Mayor, Town of Naugatuck
Sue Goggin, Town Planner, Town of Naugatuck



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

www.ct.gov/csc

Petition No. 1241

Cellco

1247 New Haven Road, Naugatuck

Telecommunications Facility

Staff Report

August 4, 2016

Introduction

On June 30, 2016, the Connecticut Siting Council (Council) received a petition from Cellco Partnership d/b/a Verizon Wireless (Cellco) for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed installation of a telecommunications facility at 1247 New Haven Road, Naugatuck, Connecticut. Currently, Cellco has identified a need to improve wireless service along Route 63 and surrounding commercial and residential areas in southeast Naugatuck.

Presently, AT&T and MetroPCS both received municipal approval (2003 and 2009, respectively) to install wireless telecommunications equipment on the southern façade of the existing warehouse building. AT&T's equipment consists of four mast-mounted antennas extending to an overall height of 35.2 feet above ground level (16.5 feet above the roof of the warehouse). MetroPCS's equipment consists of a single mast supporting two antennas to an overall height 32.6 feet agl (14 feet above the roof of the warehouse).

Proposed Project

Specifically, Cellco would install two, fifty-foot towers attached to the northerly facade on an existing warehouse building owned by Naugatuck Partners, LLC. Each tower would support three antennas (six total) and two remote radio heads (four total) extending to a height of 53.6 feet agl (35 feet above the roof of the warehouse). Cellco's equipment cabinets and propane-fueled back-up power generator would be installed on a twelve-foot by twenty-six-foot equipment platform with canopy structure. The equipment platform would be surrounded by an eight-foot tall chain-link fence on the southeast corner of the building adjacent to AT&T's equipment. Electrical and telephone service would run underground from the existing adjacent utility backboards adjacent to the proposed site.

All Points Technology Corporation (APT) conducted an inland wetland assessment. APT determined Cellco's equipment pad is within approximately 44 feet of a wetland, a perennial stream Beacon Hill Brook. APT concludes Cellco's installation would not cause an adverse impact, as other developed areas of the property are situated closer to the brook, contingent upon proper erosion and sediment controls being installed and further recommends a qualified environmental professional provide environmental compliance awareness training to the contractor and independently inspect erosion controls to document proper installation.

The subject property is located within Naugatuck's "New Haven Road Design" zoning district. The nearest residences are located across Beacon Hill Brook and south of the subject property and the visual impact is not expected to be significant due to intervening vegetation.

Cellco proposes to operate the 700, 1900, and 2100 MHz frequencies. The calculated power density would be 12.2 percent of the applicable limit using a -10 dB off-beam adjustment. Notice is not required to the Federal Aviation Administration.

Notice was provided to the Town of Naugatuck, the property owner, and abutting property owners on or about June 29, 2016. No comments have been received.

Cellco contends that this proposed project would not have a substantial adverse environmental impact.

Staff Recommendations

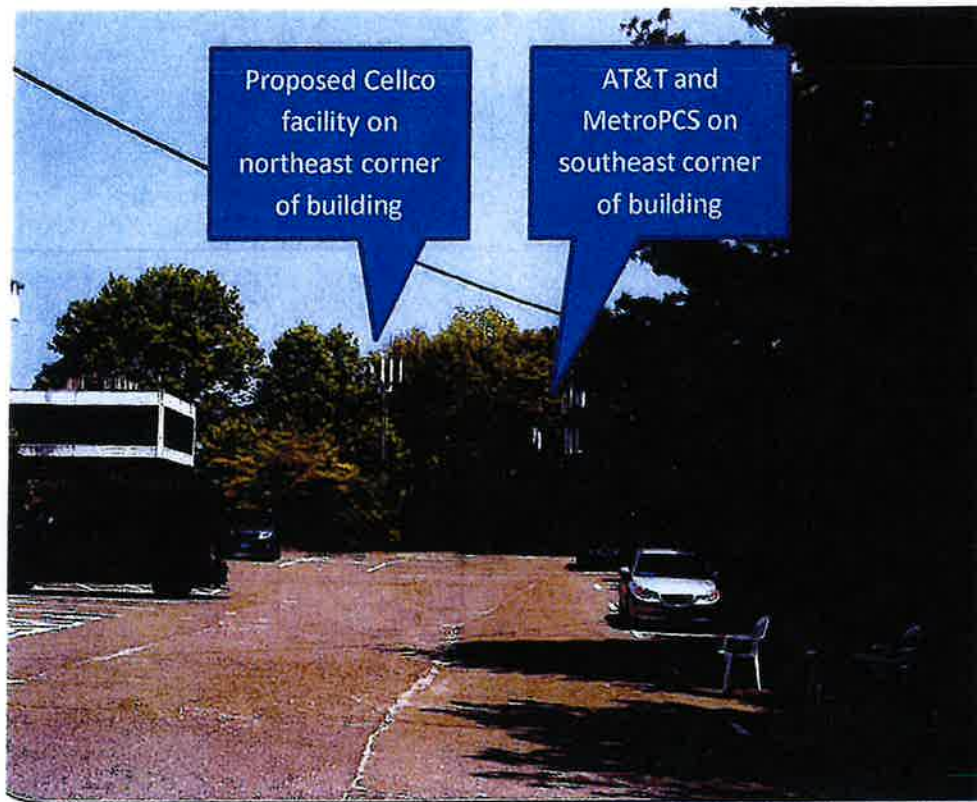
Staff recommends the following conditions:

1. Implement erosion and sedimentation control measures (E&S controls) in accordance with the *2002 Connecticut Guidelines for Soil Erosion and Sediment Control*;
2. Employ a qualified environmental professional to provide environmental compliance awareness training to the contractor and independently inspect erosion controls to document proper installation;
3. Use of off-road construction equipment that meets the latest EPA or California Air Resources Board standards, or in the alternative, equipment with the best available controls on diesel emissions, including, but not limited to, retrofitting with diesel oxidation catalysts, particulate filters and use of ultra-low sulfur fuel;
4. Compliance with the provisions of Section 22a-174-18(b)(3)(C) of the Regulations of Connecticut State Agencies that limit the idling of mobile sources to 3 minutes; and
5. Approval of any minor project changes shall be delegated to Council staff.

Site Location



Photo-simulation as viewed from west end of parking area on property



LOCATION	ORIENTATION	DISTANCE TO SITE
HOST PROPERTY	EAST	+/- 430 FEET

ATTACHMENT 2

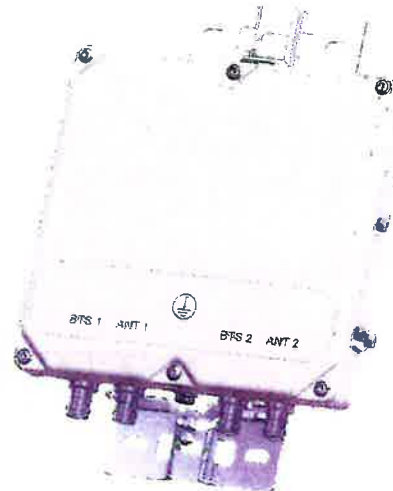
BSF0020F3V1-1

TWIN BANDSTOP 900MHz INTERFERENCE WITH 3A PICO 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



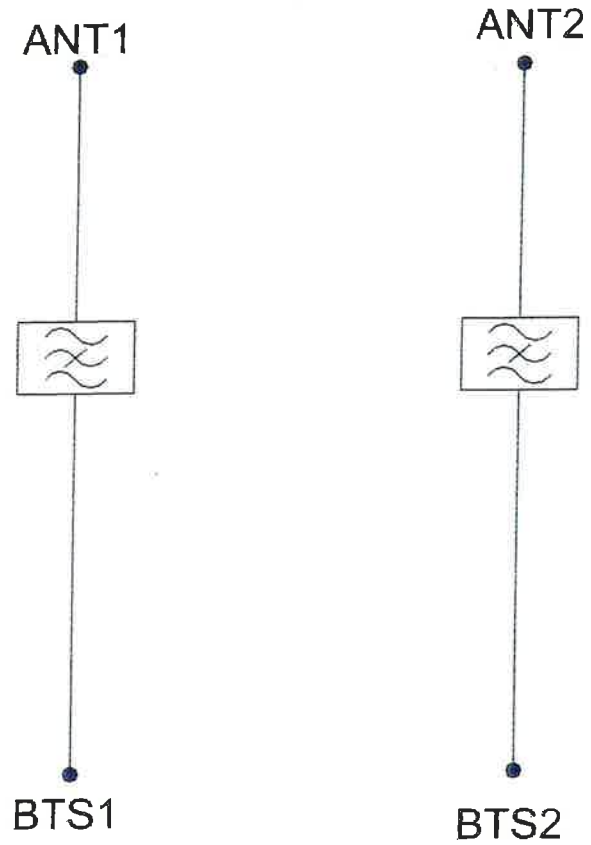
TECHNICAL SPECIFICATIONS

BAND NAME	700 MHz BAND (UL & DL)	850 MHz BAND (UL & DL)
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	
ELECTRICAL		
Impedance	50Ohms	
Intermodulation products	-160dBc maximum in UL Band (assuming 20MHz Signal), with 2 x 43dBm carriers -153dBc maximum with 2 x 43dBm	
DC / AISG		
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	
ENVIRONMENTAL		
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	
MECHANICAL		
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.	

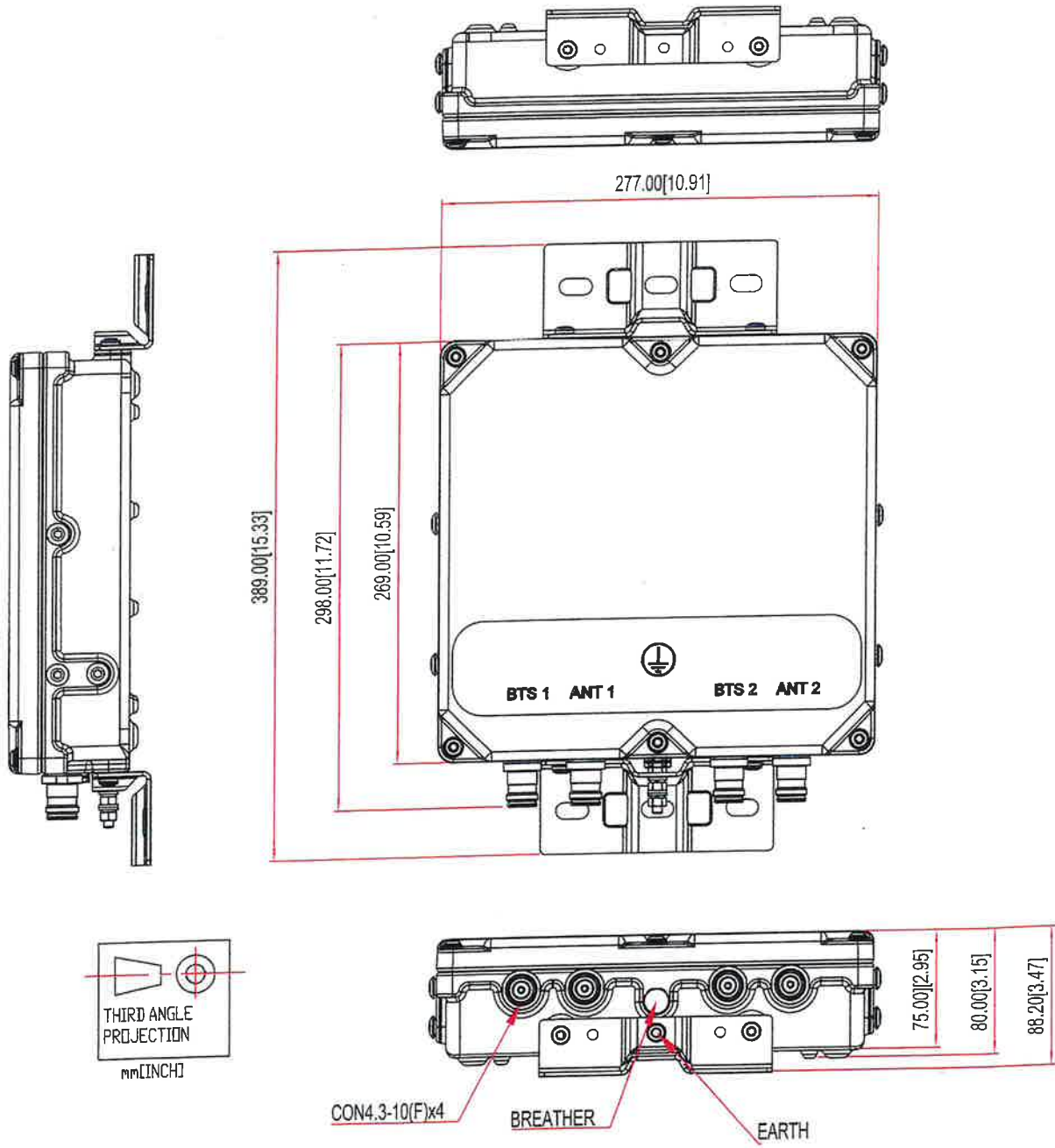
ORDERING INFORMATION

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

September 22, 2023

MasTec Network Solutions
1151 SE Cary Pkwy Suite 101
Cary, NC 27518
Tel (919) 674-5895
MNS.Engineering@mastec.com

Subject: Structural Analysis

Carrier Designation: Carrier: Verizon
Site Name: Naugatuck 4 CT
Site Number: 467170

Engineering Firm Designation: MNS Project Number: 46129-RSA1

Site Data: 1247 New Haven Road,
Naugatuck, New Haven County, CT 06770
Latitude 41.467061°, Longitude -73.0198167°
18.5 ft Building with 51 ft Antenna Mast Tower
50.5 ft RAD Center

MasTec Network Solutions is pleased to submit this **Structural Analysis** to determine the structural integrity of the above-mentioned structure.

This analysis has been performed in compliance with the *2022 Connecticut State Building Code and the ANSI/TIA-222-H Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures*. Based on our analysis we have determined the structural strength to have the following result:

Antenna Mounting Structure **75%** **Sufficient**

We at MasTec Network Solutions appreciate the opportunity of providing continued specialty services. Please do not hesitate to contact our office should you have any questions.

Prepared By: Romaine Campbell

Reviewed By:

Raphael Mohamed, PE, Peng
Senior Director of Engineering
CT PE License No. 25112



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EXECUTIVE SUMMARY

The purpose of this analysis is to determine the acceptability of Verizon’s proposed loading. Documents used for this analysis are stated in **Table 1**. This analysis has been performed in compliance with the applicable codes and parameters listed in **Table 2**.

Table 1: Referenced Documents

Company	Document Type	Reference	Date
Nexius	Structural Analysis	Job No. VZW467170A01-NX062	12/7/2021
MasTec	Construction Drawings	Location Code: 467170	9/5/2023
Kaelus	Datasheet	Document ID: BSF0020F3V1-1	5/13/2020

Table 2: Design Basis

Codes and Standards	
Local Building Code	2022 Connecticut State Building Code
TIA Standard	ANSI/TIA-222-H
Wind Parameters	
Ultimate Wind Speed	120 mph
Nominal Wind Speed with Ice	50 mph
Radial Ice Thickness	1 in
Operational Wind Speed	30 mph
Exposure Category	B
Risk Category	II
Topographic Category	1
Seismic Parameters	
S _s	0.198
S ₁	0.054

Seismic effects have been considered in accordance with *Section 2.7 of TIA-222-H*.

Based on our analysis, we have determined the host structure and tower components to be **adequate** to support the existing and proposed loading as described in **Table 3** of this analysis report.

To ensure the requirements of the applicable standards are met, we have the following recommendations:

Recommendations:

- 1) All bolts and hardware should be checked for tightness and condition prior to installing the proposed equipment.

CARRIER LOADING

The existing and proposed antenna equipment with corresponding mounts are shown below in **Table 3**. If the equipment listed below differs from actual field conditions, MasTec Network Solutions should be contacted to review the discrepancies.

Table 3: Appurtenance Loading

Final Carrier Loading:

Antenna Elevation (ft)	Qty	Description	Carrier	Mount Elevation (ft)	Transmission Lines	Mount Type	Notes
50.5	2	Samsung MT6407-77A with RRH	Verizon	50.5	(4) Fiber (4) Power Cables (2) 1x2 Hybrid (2) 6x12 Hybrid	(2) 5.8 ft Standoff Mounts	--
	4	Andrew SBNHH-1D65B					
	2	Samsung RF4439d-25A					
	2	Samsung RF4440d-13A					
	4	Kaelus BSF0020F3V1-1					
46.0	2	6C OVP Box		46.0		Antenna Mast	

ANALYSIS RESULTS

RISA-3D (V17.0.4), a commercially available software package for structural analysis, was used to create a three-dimensional model of the structure and calculate member stresses for various loading cases. Selected output from the analysis is included in **APPENDIX 3**. Please find below a summary of the structure analysis results.

Capacity percentages below 100% are considered acceptable for structure components.

Table 4: Tower Components

Structural Component	Capacity Percentage	Result	Notes
Column	49%	Pass	1
Diagonals	39%	Pass	1
Horizontal	75%	Pass	1
Plate	67%	Pass	1
Mount_Standoff	5%	Pass	1
Mount_Horizontals	23%	Pass	1
Antenna_Pipe	31%	Pass	1

1. Please see **APPENDIX 3** for calculation details

Table 5: Additional Structural Components

Component	Max. Percentage Decrease from Previous Analysis	Result	Notes
Connection Bolts	25%	Pass	1

1. Please see **APPENDIX 2** and **APPENDIX 4** for calculation details.

ASSUMPTIONS, LIMITATIONS AND DISCLAIMER

- 1) The mount was built in accordance with the designer's specifications and the mount has been maintained and is free of damage.
- 2) This Structural Analysis is not a condition assessment of the mount and is an evaluation of the theoretical structural capacity.
- 3) This analysis is based from the information supplied, and therefore, this report's results are as accurate as the supplied data.
- 4) MasTec Network Solutions makes no warranties, expressed and/or implied, in connection with this report, and disclaims any liability associated with material, fabrication, or erection of this tower. MasTec will not be held responsible from any consequential or incidental damages sustained by any person, firm, or organization as a result of the contents of this report. The maximum liability of MasTec pursuant to this report will be limited to the total fee received for compilation of this report.
- 5) It is the tower owner's responsibility to verify that the mount modeled and analyzed is the correct structure modeled.
- 6) The use of this report shall be limited to the purpose for which it was commissioned and may not be used for any other purposes without the written consent of MasTec Network Solutions.
- 7) The mount was properly fabricated and was constructed and has been maintained in accordance with manufacturer's specifications.
- 8) The connection from the tower to the mount is assumed to be adequate and in good condition.
- 9) Member connections are assumed to have been designed to meet or exceed the theoretical capacity of the connected member.
- 10) Steel grades have been assumed as follows:

Channel, Solid Round, Angle, Plate	ASTM A36 (GR 36)
HSS (Rectangular)	ASTM 500 (GR B-46)
HSS (Round)	ASTM 500 (GR B-42)
Pipe	ASTM A53 (GR 35)
Connection Bolts	ASTM A325
U-Bolts	SAE 429 Gr.2

APPENDIX 1: LOADING PARAMETERS

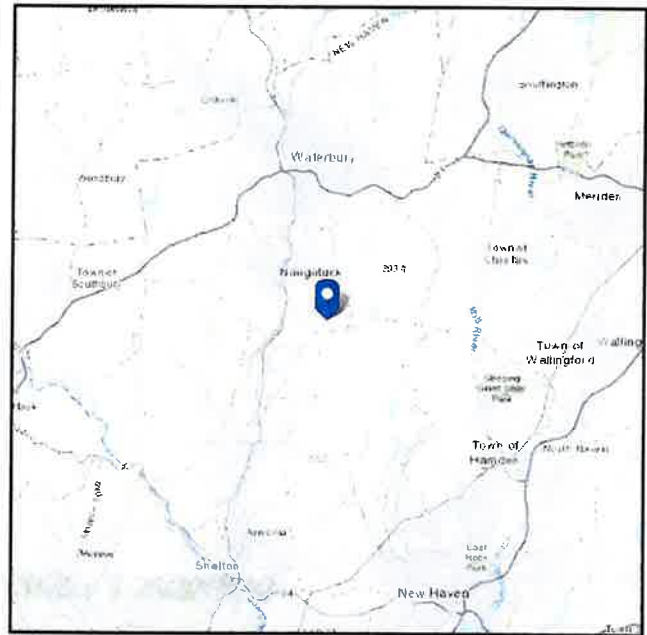


ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-16
Risk Category: II
Soil Class: D - Default (see Section 11.4.3)

Latitude: 41.467061
Longitude: -73.019817
Elevation: 327.22737015303403 ft (NAVD 88)



Wind

120 Vmph per 2022 Connecticut State Building Code.

Results:

Wind Speed	118 Vmph
10-year MRI	75 Vmph
25-year MRI	84 Vmph
50-year MRI	90 Vmph
100-year MRI	97 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2

Date Accessed: Thu Sep 14 2023

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

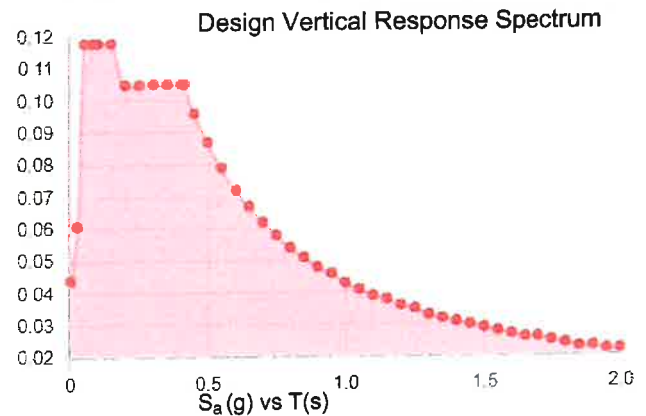
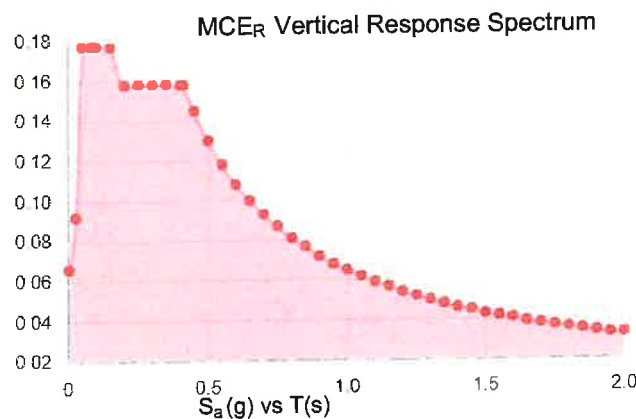
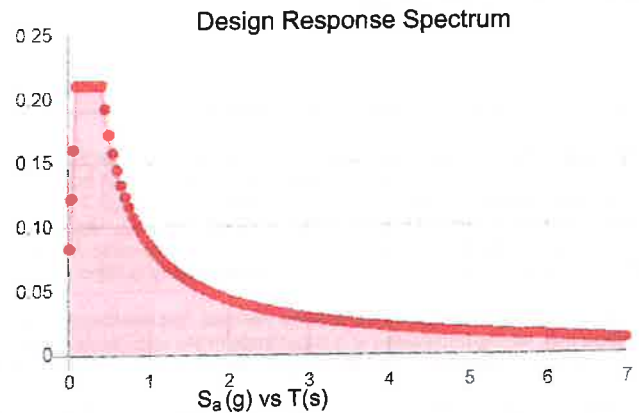
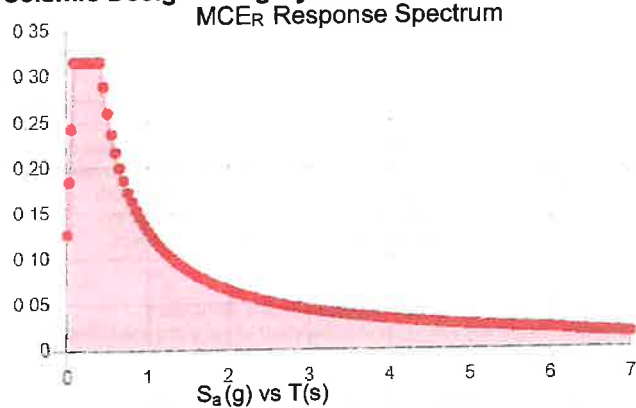
Seismic

Site Soil Class:

Results:

S_s :	0.198	S_{D1} :	0.087
S_1 :	0.054	T_L :	6
F_a :	1.6	PGA :	0.11
F_v :	2.4	PGA _M :	0.174
S_{MS} :	0.316	F_{PGA} :	1.58
S_{M1} :	0.13	I_e :	1
S_{DS} :	0.211	C_v :	0.7

Seismic Design Category: B



Data Accessed:

Thu Sep 14 2023

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.



Ice

Results:

Ice Thickness: 1.00 in.
Concurrent Temperature: 15 F
Gust Speed 50 mph

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

Date Accessed: Thu Sep 14 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.

Municipality	Basic Design Wind Speeds, V (mph)				Allowable Stress Design Wind Speeds, V _{sd} (mph)				Ground Snow Load P _g (psf)	MCE Ground Accelerations		Wind-Borne Debris Region ¹		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	
Hampton	115	125	130	135	89	97	101	105	35	0.184	0.054		Yes	
Hartford	110	120	130	135	85	93	101	105	30	0.189	0.055		Yes	
Hartland	110	115	125	130	85	89	97	101	35	0.167	0.054			
Harwinton	110	120	125	130	85	93	97	101	35	0.177	0.054		Yes	
Hebron	115	125	130	135	89	97	101	105	30	0.200	0.055		Yes	
Kent	105	115	125	130	81	89	97	101	40	0.184	0.054			
Killingly	115	125	135	140	89	97	105	108	35	0.186	0.055		Yes	
Killingworth	115	125	135	140	89	97	105	108	30	0.210	0.055		Yes	
Lebanon	115	125	135	135	89	97	105	105	30	0.196	0.055		Yes	
Ledyard	120	130	140	140	93	101	108	108	30	0.190	0.053		Yes	
Lisbon	115	125	135	140	89	97	105	108	30	0.190	0.054		Yes	
Litchfield	110	115	125	130	85	89	97	101	35	0.178	0.054			
Lyme	115	125	135	140	89	97	105	108	30	0.207	0.054		Yes	
Madison	115	125	135	140	89	97	105	108	30	0.206	0.054	Type B	Yes	
Manchester	110	120	130	135	85	93	101	105	30	0.190	0.055		Yes	
Mansfield	110	120	130	135	85	93	101	105	35	0.186	0.055		Yes	
Marlborough	110	125	130	135	85	97	101	105	30	0.205	0.056		Yes	
Meriden	110	120	130	135	85	93	101	105	30	0.203	0.055		Yes	
Middlebury	110	120	130	130	85	93	101	101	35	0.194	0.054		Yes	
Middlefield	110	120	130	135	85	93	101	105	30	0.209	0.055		Yes	
Middletown	110	120	130	135	85	93	101	105	30	0.209	0.056		Yes	
Milford	110	120	130	135	85	93	101	105	30	0.202	0.053	Type B	Yes	
Monroe	110	120	130	135	85	93	101	105	30	0.208	0.055		Yes	
Montville	120	125	135	140	93	97	105	108	30	0.198	0.054		Yes	
Morris	110	115	125	130	85	89	97	101	35	0.182	0.054			
Naugatuck	110	120	130	135	85	93	101	105	30	0.197	0.054		Yes	
New Britain	110	120	130	135	85	93	101	105	30	0.195	0.055		Yes	
New Canaan	110	120	130	135	85	93	101	105	30	0.252	0.058		Yes	
New Fairfield	110	115	125	130	85	89	97	101	30	0.219	0.056			
New Hartford	110	115	125	130	85	89	97	101	35	0.172	0.054			
New Haven	110	125	130	135	85	97	101	105	30	0.201	0.054	Type B	Yes	
New London	120	130	140	140	93	101	108	108	30	0.191	0.053	Type B Type A	Yes	

APPENDIX 2: LOADING CALCULATIONS



Mount Analysis Tool (v4.3.7)

Site Name	Naugatuck 4 CT	Rooftop?	Yes
Site ID/FA Number	467170	Existing Site Audit?	Yes
MNS Project Number	46129-RSA1	Risk Category	II
Code	H		

Legend	
Input	
Calculated	
Notes	

Controlling Capacity	75.3%	Maximum Capacity	PASS
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Analysis Parameters		ft
Mount Height	50.5	
Exposure Category	B	(B,C, or D)
Ultimate Wind Speed	120	mph
Ice Wind Speed	50	mph
Design Ice Thickness, t_i	1	in
Maintenance Wind Speed	30	mph
Run Earthquake Analysis?	Yes	
Ground Elevation	327.23	ft, Google Earth
Tower/Roof Height	18.5	ft
S_1	0.054	USGS
$S_{0.5}$	0.211	2.7.5
Vertical Seismic Loads, E_v	0.042	2.7.6
Seismic Response Coefficient, C_s	0.070	2.7.7.1.1
C_s * Amplification Factor	0.084	2.7.8.1

Wind Parameters		2.6.9	K_z	1.000	K_d	1.000	2.6.7
Gust Effect Factor, G_h		2.6.9	K_z	0.813	K_d	0.988	2.6.8
K_{zt}		2.6.6	K_{zt}	1.000	K_{ds}	0.900	16.5
K_d		Table 2-2		0.950	*Note for Rooftop Structures greater than 50', unobstructed for 90 deg and protruding 50' above surrounding buildings K_s must be calculated.		
q_z		psf, 2.6.11.6		28.136			
C/D		Table 2-9		108.199			
t_z		in, 2.6.10		1.043			
q_h		psf, 2.6.9.6		4.396			
C/D t_z		Table 2-9		45.083			
$Q_{Maintenance}$		psf, 2.6.9.6		1.602			
C/D $Q_{Maintenance}$		Table 2-9		27.050			
Ice Dead, Grating		ksf		0.008278153			
Dead, Grating		ksf		0.012			

Pipe Mounts (Orientation Drawn Top-Down)			
Risa 3D Label	Elevation (ft)	Length (in)	Diameter (in)
A1	50.5	72	2.38
A2	50.5	72	2.38
A3	50.5	72	2.38
B1	50.5	72	2.38
B2	50.5	72	2.38
B3	50.5	72	2.38
M28	37	324	12
M27	37	324	12

Appurtenances			
Model	Type	Height (in)	Weight (lbs)
Samsung MTG407-77A	Antenna	35.06	81.57
Andrew SBNHH-1D65B	Antenna	72.9	40.6
Samsung RF4439d-25A	RRU, TMA, Etc.	18.66	74.7
Samsung RF4440d-13A	RRU, TMA, Etc.	14.96	70.3
6C OVP	RRU, TMA, Etc.	28.93	32
Kaelus BSF0020F3V1-1	RRU, TMA, Etc.	10.6	17.6

Pipe Mount	Antenna	Elevation (ft)	Quantity	Orientation (deg)	Front Exposed (%)	Side Exposed (%)	Type	Height (in)	Width (in)	Depth (in)	Weight (lbs)	Front C.A. (ft)	Side C.A. (ft)	Front F _x (kips)	Side F _x (kips)	Top % Bottom %
A1	Samsung MT6407-77A	50.5	1	0	100.0%	100.0%	Antenna	35.060	16.060	5.510	81.570	4.692	1.840	0.113	0.044	25.7% 74.3%
A1																
A1																
A1																
A2	Samsung RF44394-25A	51.5	1	0	100.0%	100.0%	RRU, TMA, Etc.	18.860	14.860	10.040	74.700	2.926	1.961	0.056	0.038	20.4% 46.3%
A2	Samsung RF44404-13A	49.5	1	0	100.0%	100.0%	RRU, TMA, Etc.	14.960	14.960	9.050	70.300	1.865	1.128	0.045	0.027	56.3% 77.1%
A2																
A2																
A2																
A3	Andrew SBNHH-1D65B	50.5	2	0	100.0%	100.0%	Antenna	72.900	11.900	7.100	61.200	2.966	2.368	0.140	0.114	0.0% 100.0%
A3	Kaelus BSF0020F3V1-1	50.5	2	90	0.0%	50.0%	RRU, TMA, Etc.	10.600	10.600	3.150	39.200	0.963	0.287	0.000	0.023	42.6% 57.4%
A3																
A3																
A3																
B1	Samsung MT6407-77A	50.5	1	180	100.0%	100.0%	Antenna	35.060	16.060	5.510	81.570	4.692	1.840	0.113	0.044	25.7% 74.3%
B1																
B1																
B1																
B1																
B2	Samsung RF44394-25A	51.5	1	180	100.0%	100.0%	RRU, TMA, Etc.	18.860	14.860	10.040	74.700	2.926	1.961	0.056	0.038	20.4% 46.3%
B2	Samsung RF44404-13A	49.5	1	180	100.0%	100.0%	RRU, TMA, Etc.	14.960	14.960	9.050	70.300	1.865	1.128	0.045	0.027	56.3% 77.1%
B2																
B2																
B2																
B3	Andrew SBNHH-1D65B	50.5	2	180	100.0%	100.0%	Antenna	72.900	11.900	7.100	61.200	2.966	2.368	0.140	0.114	0.0% 100.0%
B3	Kaelus BSF0020F3V1-1	50.5	2	270	0.0%	50.0%	RRU, TMA, Etc.	10.600	10.600	3.150	39.200	0.963	0.287	0.000	0.023	42.6% 57.4%
B3																
B3																
B3																
M28	6C OVP	45	1	0	100.0%	100.0%	RRU, TMA, Etc.	28.930	15.730	10.310	32.000	3.792	2.514	0.091	0.060	12.2% 21.1%
M28																
M28																
M28																
M28																
M27	6C OVP	45	1	180	100.0%	100.0%	RRU, TMA, Etc.	28.930	15.730	10.310	32.000	3.792	2.514	0.091	0.060	12.2% 21.1%
M27																
M27																
M27																
M27																

Member	Section Set	Member Length (ft)	Eqpt Round	Wind Function (ft)	D ₁ (ft)	A _s (in ²)	G	From Wind (ft)	Side Wind (ft)	Front Ice Wind (ft)	Side Ice Wind (ft)	Ice Dead (ft)	Front Majort Wind (ft)	Side Majort Wind (ft)
A2	Antenna Pipe	6	Round	2.380	2.380	9.103	1.200	0.006	0.006	0.002	0.002	0.004	0.000	0.000
A3	Antenna Pipe	6	Round	2.380	2.380	9.103	1.200	0.006	0.006	0.002	0.002	0.004	0.000	0.000
A1	Antenna Pipe	6	Round	2.380	2.380	9.103	1.200	0.006	0.006	0.002	0.002	0.004	0.000	0.000
B1	Antenna Pipe	6	Round	2.380	2.380	9.103	1.200	0.006	0.006	0.002	0.002	0.004	0.000	0.000
B2	Antenna Pipe	6	Round	2.380	2.380	9.103	1.200	0.006	0.006	0.002	0.002	0.004	0.000	0.000
B3	Antenna Pipe	6	Round	2.380	2.380	9.103	1.200	0.006	0.006	0.002	0.002	0.004	0.000	0.000
M7	RIGID	0.21875	Flat	0.000	0.000	2.471	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
M8	RIGID	0.21875	Flat	0.000	0.000	2.471	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
M9	RIGID	0.21875	Flat	0.000	0.000	2.471	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
M10	RIGID	0.21875	Flat	0.000	0.000	2.471	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
M11	RIGID	0.21875	Flat	0.000	0.000	2.471	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
M12	RIGID	0.21875	Flat	0.000	0.000	2.471	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
M13	RIGID	0.21875	Flat	0.000	0.000	2.471	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
M14	RIGID	0.21875	Flat	0.000	0.000	2.471	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
M15	RIGID	0.21875	Flat	0.000	0.000	2.471	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
M16	RIGID	0.21875	Flat	0.000	0.000	2.471	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
M17	RIGID	0.21875	Flat	0.000	0.000	2.471	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
M18	RIGID	0.21875	Flat	0.000	0.000	2.471	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
M19	Mount Horizontals	5.833334	Round	2.880	2.880	10.496	1.200	0.007	0.007	0.002	0.002	0.004	0.000	0.000
M20	Mount Horizontals	5.833334	Round	2.880	2.880	10.496	1.200	0.007	0.007	0.002	0.002	0.004	0.000	0.000
M21	Mount Horizontals	5.833334	Round	2.880	2.880	10.496	1.200	0.007	0.007	0.002	0.002	0.004	0.000	0.000
M22	Mount Horizontals	5.833334	Round	2.880	2.880	10.496	1.200	0.007	0.007	0.002	0.002	0.004	0.000	0.000
M23	Mount Standoff	1.098958	Flat	6.000	6.000	76.115	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
M24	Mount Standoff	1.098958	Flat	6.000	6.000	76.115	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
M25	Mount Standoff	1.098958	Flat	6.000	6.000	76.115	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
M26	Mount Standoff	1.098958	Flat	6.000	6.000	76.115	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
M27	Column	27	Flat	12.000	12.000	26.115	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
M28	Column	27	Flat	12.000	12.000	26.115	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
M29	Horizontal	3	Flat	4.000	4.000	37.717	2.000	0.048	0.048	0.009	0.009	0.015	0.003	0.003
M30	Horizontal	3	Flat	4.000	4.000	37.717	2.000	0.048	0.048	0.009	0.009	0.015	0.003	0.003
M31	Column	21	Flat	12.000	12.000	18.234	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
M32	Column	21	Flat	12.000	12.000	18.234	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
M33	Diagonals	5.830951895	Flat	4.000	4.000	37.717	2.000	0.016	0.016	0.003	0.003	0.007	0.001	0.001
M34	Diagonals	5.830951895	Flat	4.000	4.000	37.717	2.000	0.016	0.016	0.003	0.003	0.007	0.001	0.001
M35	Diagonals	5.830951895	Flat	4.000	4.000	37.717	2.000	0.016	0.016	0.003	0.003	0.007	0.001	0.001
M36	Diagonals	5.830951895	Flat	4.000	4.000	37.717	2.000	0.016	0.016	0.003	0.003	0.007	0.001	0.001
M37	Diagonals	5.830951895	Flat	4.000	4.000	37.717	2.000	0.016	0.016	0.003	0.003	0.007	0.001	0.001
M38	Diagonals	5.830951895	Flat	4.000	4.000	37.717	2.000	0.016	0.016	0.003	0.003	0.007	0.001	0.001
M39	Diagonals	5.830951895	Flat	4.000	4.000	37.717	2.000	0.016	0.016	0.003	0.003	0.007	0.001	0.001
M40	Diagonals	5.830951895	Flat	4.000	4.000	37.717	2.000	0.016	0.016	0.003	0.003	0.007	0.001	0.001
M41	Plate	1	Flat	3.000	3.000	18.234	2.000	0.003	0.003	0.000	0.000	0.000	0.000	0.000
M42	Plate	1	Flat	3.000	3.000	18.234	2.000	0.003	0.003	0.000	0.000	0.000	0.000	0.000
M43	Plate	1	Flat	3.000	3.000	18.234	2.000	0.003	0.003	0.000	0.000	0.000	0.000	0.000
M44	Plate	1	Flat	3.000	3.000	18.234	2.000	0.003	0.003	0.000	0.000	0.000	0.000	0.000
M45	Plate	1	Flat	3.000	3.000	18.234	2.000	0.003	0.003	0.000	0.000	0.000	0.000	0.000
M46	Plate	1	Flat	3.000	3.000	18.234	2.000	0.003	0.003	0.000	0.000	0.000	0.000	0.000
M47	Plate	1	Flat	3.000	3.000	18.234	2.000	0.003	0.003	0.000	0.000	0.000	0.000	0.000
M48	Plate	1	Flat	3.000	3.000	18.234	2.000	0.003	0.003	0.000	0.000	0.000	0.000	0.000
M49	RIGID	0.385416	Flat	0.000	0.000	2.471	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
M50	RIGID	0.385416	Flat	0.000	0.000	2.471	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
M51	RIGID	0.385416	Flat	0.000	0.000	2.471	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
M52	RIGID	0.385416	Flat	0.000	0.000	2.471	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
M53	RIGID	0.385416	Flat	0.000	0.000	2.471	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
M54	RIGID	0.385416	Flat	0.000	0.000	2.471	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
M55	RIGID	0.385416	Flat	0.000	0.000	2.471	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
M56	RIGID	0.385416	Flat	0.000	0.000	2.471	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

JOINT REACTIONS COMPARISON

The purpose of this analysis is to determine the percentage change between the maximum shear, tension and moments between the previous structural analysis and this structural analysis.

Image 1: Envelope Joint Reactions from previous Structural Analysis

Envelope Joint Reactions

	Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N3	m.	3.135	11	19.361	7	.799	2	1.435	2	.044	7	.716	5
2		m.	-3.152	5	-16.876	13	-.779	7	-1.441	8	-.046	2	-.721	11
3	N2	m.	3.105	11	19.44	3	.799	3	1.481	3	.069	9	.708	5
4		m.	-3.114	5	-16.961	9	-.827	8	-1.465	8	-.075	3	-.715	11
5	N92A	m.	6.838	5	11.181	6	.307	2	.571	2	.244	8	4.047	6
6		m.	-6.666	11	-10.216	12	-.312	8	-.601	8	-.251	2	-3.575	12
7	N93A	m.	6.747	5	11.109	4	.315	2	.605	2	.302	9	4.049	3
8		m.	-6.594	11	-10.163	10	-.31	8	-.573	8	-.322	3	-3.581	9
9	N94	m.	7.35	11	35.738	9	2.939	2	6.117	2	1.733	7	24.701	7
10		m.	-7.498	5	-32.275	3	-2.8	8	-6.029	8	-1.795	2	-22.127	13
11	N95	m.	7.403	11	35.617	13	2.797	2	6.101	2	2.074	8	24.745	3
12		m.	-7.555	5	-32.145	7	-2.936	8	-6.184	8	-1.99	3	-22.18	9
13	Totals	m.	7.734	11	9.714	17	7.948	2						
14		m.	-7.734	5	7.528	11	-7.948	8						

Image 2: Envelope Joint Reactions from new Structural Analysis

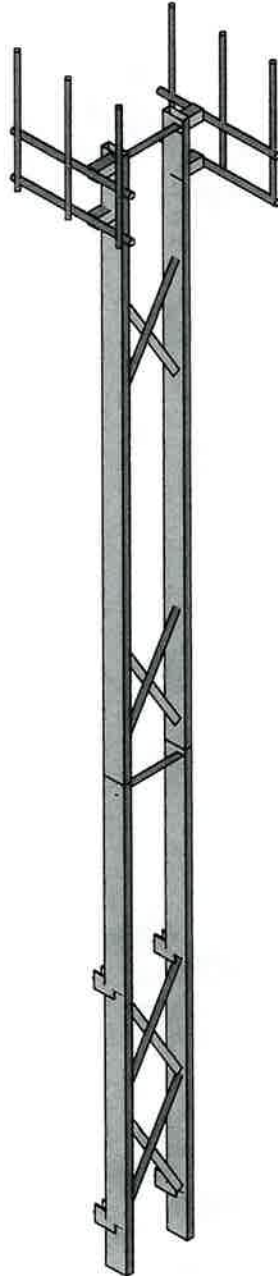
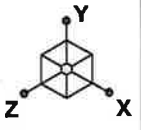
Envelope Joint Reactions

	Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N95	max	5.884	11	27.52	13	2.199	2	4.733	2	1.56	8	19.125	3
2		min	-6.041	5	-23.815	7	-2.274	8	-4.783	8	-1.538	3	-16.418	9
3	N94	max	5.848	11	27.603	9	2.274	2	4.736	2	1.381	7	19.096	7
4		min	-5.992	5	-23.928	3	-2.201	8	-4.68	8	-1.439	2	-16.368	13
5	N92A	max	5.329	5	8.774	6	.263	2	.479	2	.21	8	3.203	6
6		min	-5.163	11	-7.765	12	-.27	8	-.502	8	-.213	2	-2.714	12
7	N93A	max	5.254	5	8.715	4	.272	2	.505	2	.25	9	3.198	4
8		min	-5.111	11	-7.727	10	-.265	8	-.48	8	-.266	3	-2.712	10
9	N3	max	2.45	11	15.191	7	.706	2	1.24	2	.037	7	.559	5
10		min	-2.459	5	-12.624	13	-.702	8	-1.266	8	-.039	2	-.566	11
11	N2	max	2.428	11	15.25	3	.722	2	1.29	2	.056	9	.552	5
12		min	-2.427	5	-12.695	9	-.726	8	-1.26	8	-.061	3	-.562	11
13	Totals	max	6.336	11	10.542	17	6.438	2						
14		min	-6.336	5	7.595	11	-6.438	8						

Reaction Types	Previous Analysis Results	Current Analysis Results	Percentage Change
Shear	3.135 kips	2.450 kips	22% decrease
Uplift	16.961 kips	12.695 kips	25% decrease
Torsion	0.799 kips	0.722 kips	10% decrease
Moment-x	1.481 kips-ft	1.290 kips-ft	13% decrease
Moment-y	0.075 kips-ft	0.061 kips-ft	19% decrease
Moment-z	0.721 kips-ft	0.566 kips-ft	22% decrease

Based on our analysis, we have determined the tower bolt connections and plates to be **adequate** to support the existing and proposed loading as described in **Table 3** of this analysis report.

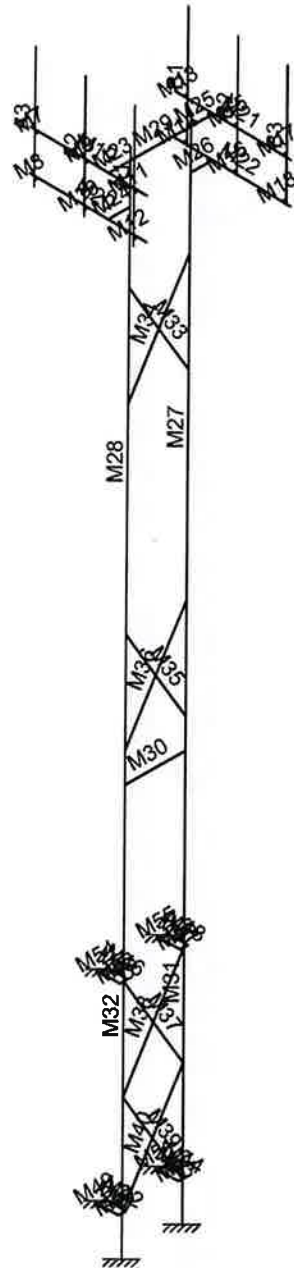
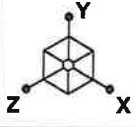
APPENDIX 3: RISA 3D OUTPUT



MasTec Network Solutions
RSC
46129-RSA1

467170 - NAUGATUCK_4_CT

Rendered View
Sept 20, 2023 at 12:16 PM
46129-RSA1.r3d



MasTec Network Solutions

RSC

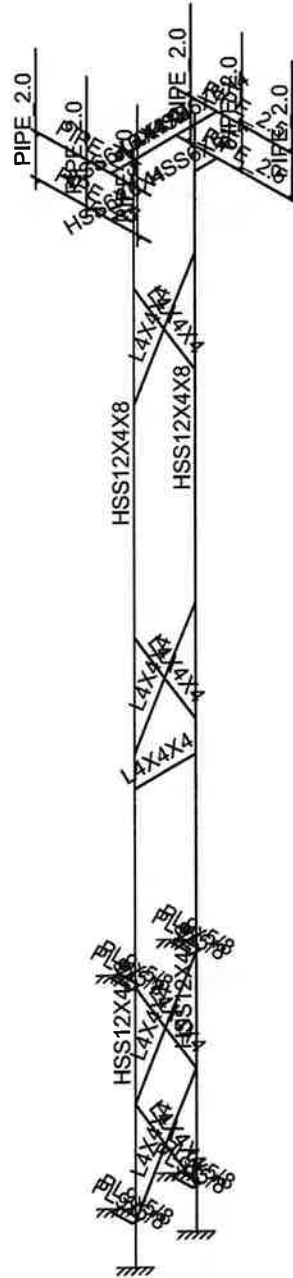
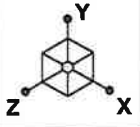
46129-RSA1

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Member Labels

Sept 20, 2023 at 12:16 PM

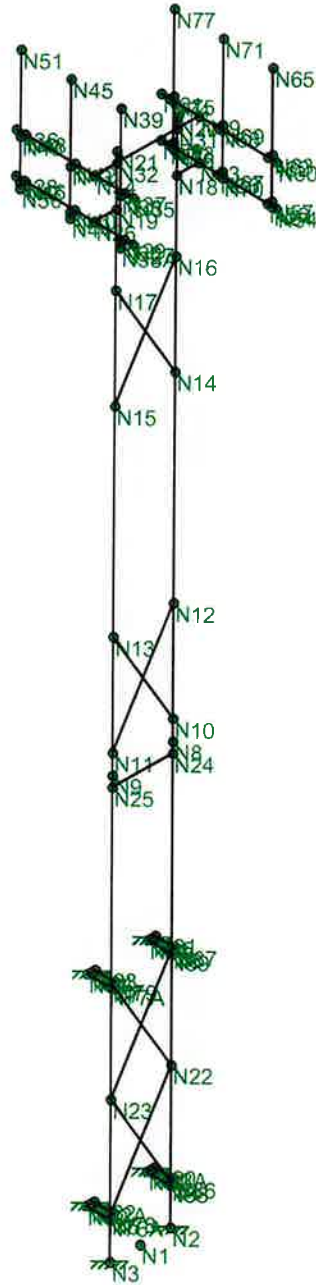
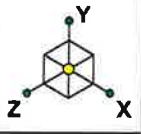
46129-RSA1.r3d



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 RSC
 46129-RSA1

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Member Shapes
 Sept 20, 2023 at 12:15 PM
 46129-RSA1.r3d



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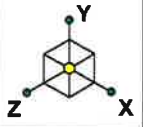
46129-RSA1

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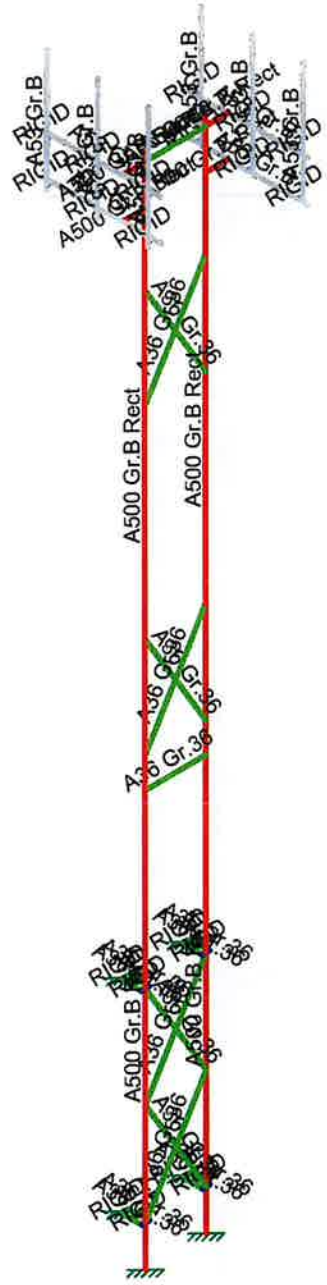
Node Labels

Sept 20, 2023 at 12:15 PM

46129-RSA1.r3d



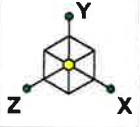
Material Sets	
█	RIGID
█	A36 Gr.36
█	A500 Gr.B Rect
█	A53 Gr.B



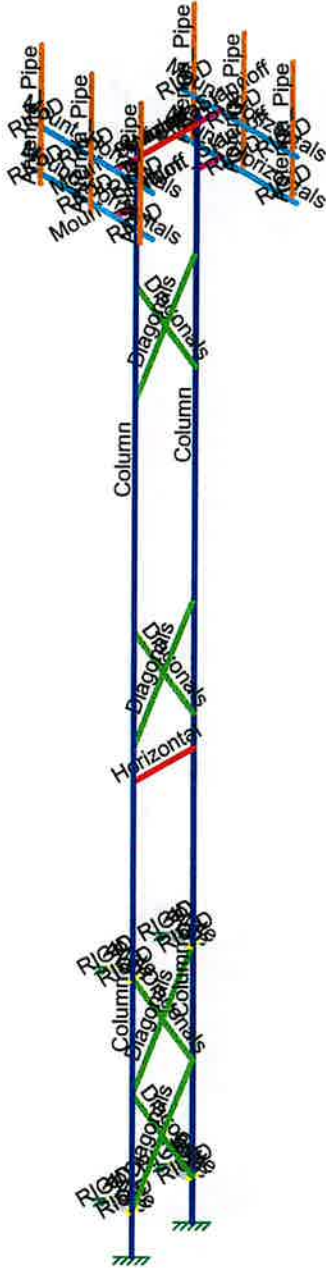
MasTec Network Solutions
 RSC
 46129-RSA1

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Material Sets
 Sept 20, 2023 at 12:18 PM
 46129-RSA1.r3d



Section Sets	
█	Column
█	Diagonals
█	Horizontal
█	Plate
█	Mount_Standoff
█	Mount_Horizontals
█	Antenna_Pipe
█	RIGID



MasTec Network Solutions

RSC

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Section Sets

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 Designer : RSC
 Job Number : 46129-RSA1
 Model Name : 467170 - NAUGATUCK_4_CT

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Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm /1E...	Density[k/ft...	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	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65	.49	50	1.25	65	1.15
8	A913 Gr.65	29000	11154	.3	.65	.49	65	1.1	80	1.1
9	SAE J429 Gr.2	29000	11154	.3	.65	.49	57	1.1	74	1.1

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iy [in4]	Izz [in4]	J [in4]
1	Column	HSS12X4X8	Beam	Tube	A500 Gr.B Rect	Typical	13.5	35.3	210	105
2	Diagonals	L4X4X4	Beam	Single Angle	A36 Gr.36	Typical	1.93	3	3	.044
3	Horizontal	L4X4X4	Beam	Single Angle	A36 Gr.36	Typical	1.93	3	3	.044
4	Plate	PL9x5/8	Beam	RECT	A36 Gr.36	Typical	5.625	.183	37.969	.7
5	Mount Standoff	HSS6X6X4	Beam	Tube	A500 Gr.B Rect	Typical	5.24	28.6	28.6	45.6
6	Mount Horizontals	PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
7	Antenna Pipe	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diaphragm
1	N1	0	0	0	0	
2	N2	0	0	-1.5	0	
3	N3	0	0	1.5	0	
4	N4	0	2	-1.5	0	
5	N5	0	2	1.5	0	
6	N6	0	12	-1.5	0	
7	N7	0	12	1.5	0	
8	N8	0	21	-1.5	0	
9	N9	0	21	1.5	0	
10	N10	0	22	-1.5	0	
11	N11	0	22	1.5	0	
12	N12	0	27	-1.5	0	
13	N13	0	27	1.5	0	
14	N14	0	37	-1.5	0	
15	N15	0	37	1.5	0	
16	N16	0	42	-1.5	0	
17	N17	0	42	1.5	0	
18	N18	0	45.5	-1.5	0	
19	N19	0	45.5	1.5	0	
20	N20	0	48	-1.5	0	
21	N21	0	48	1.5	0	
22	N22	0	7	-1.5	0	
23	N23	0	7	1.5	0	
24	N24	0	20.5	-1.5	0	
25	N25	0	20.5	1.5	0	
26	N26	0	45.5	2.598958	0	
27	N27	1.916667	45.5	2.598958	0	
28	N28	-3.916667	45.5	2.598958	0	
29	N29	1.5	45.5	2.598958	0	
30	N30	1.5	45.5	2.817708	0	
31	N31	0	47.5	-1.5	0	



Company : MasTec Network Solutions
 Designer : RSC
 Job Number : 46129-RSA1
 Model Name : 467170 - NAUGATUCK_4_CT

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Joint Coordinates and Temperatures (Continued)

	Label	X (ft)	Y (ft)	Z (ft)	Temp (F)	Detach From Diaphragm
32	N32	0	47.5	1.5	0	
33	N34	0	47.5	2.598958	0	
34	N35	1.916667	47.5	2.598958	0	
35	N36	-3.916667	47.5	2.598958	0	
36	N37	1.5	47.5	2.598958	0	
37	N38	1.5	47.5	2.817708	0	
38	N38A	1.5	45.25	2.817708	0	
39	N39	1.5	51.25	2.817708	0	
40	N40	-1	45.5	2.598958	0	
41	N41	-1	45.5	2.817708	0	
42	N42	-1	47.5	2.598958	0	
43	N43	-1	47.5	2.817708	0	
44	N44	-1	45.25	2.817708	0	
45	N45	-1	51.25	2.817708	0	
46	N46	-3.5	45.5	2.598958	0	
47	N47	-3.5	45.5	2.817708	0	
48	N48	-3.5	47.5	2.598958	0	
49	N49	-3.5	47.5	2.817708	0	
50	N50	-3.5	45.25	2.817708	0	
51	N51	-3.5	51.25	2.817708	0	
52	N53	0	45.5	-2.598958	0	
53	N54	3.916667	45.5	-2.598958	0	
54	N55	-1.916667	45.5	-2.598958	0	
55	N56	3.5	45.5	-2.598958	0	
56	N57	3.5	45.5	-2.817708	0	
57	N59	0	47.5	-2.598958	0	
58	N60	3.916667	47.5	-2.598958	0	
59	N61	-1.916667	47.5	-2.598958	0	
60	N62	3.5	47.5	-2.598958	0	
61	N63	3.5	47.5	-2.817708	0	
62	N64	3.5	45.25	-2.817708	0	
63	N65	3.5	51.25	-2.817708	0	
64	N66	1	45.5	-2.598958	0	
65	N67	1	45.5	-2.817708	0	
66	N68	1	47.5	-2.598958	0	
67	N69	1	47.5	-2.817708	0	
68	N70	1	45.25	-2.817708	0	
69	N71	1	51.25	-2.817708	0	
70	N72	-1.5	45.5	-2.598958	0	
71	N73	-1.5	45.5	-2.817708	0	
72	N74	-1.5	47.5	-2.598958	0	
73	N75	-1.5	47.5	-2.817708	0	
74	N76	-1.5	45.25	-2.817708	0	
75	N77	-1.5	51.25	-2.817708	0	
76	N76A	0	2	1.692708	0	
77	N77A	0	12	1.692708	0	
78	N78	0	2	1.307292	0	
79	N79	0	12	1.307292	0	
80	N80	-1	2	1.692708	0	
81	N81	-1	12	1.692708	0	
82	N82	-1	2	1.307292	0	
83	N83	-1	12	1.307292	0	
84	N86	0	2	-1.692708	0	
85	N87	0	12	-1.692708	0	
86	N88	0	2	-1.307292	0	
87	N89	0	12	-1.307292	0	
88	N90	-1	2	-1.692708	0	



Company : MasTec Network Solutions
 Designer : RSC
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 Model Name : 467170 - NAUGATUCK_4_CT

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Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diaphragm
89	N91	-1	12	-1.692708	0	
90	N92	-1	2	-1.307292	0	
91	N93	-1	12	-1.307292	0	
92	N92A	-1	2	1.5	0	
93	N93A	-1	2	-1.5	0	
94	N94	-1	12	1.5	0	
95	N95	-1	12	-1.5	0	

Joint Boundary Conditions

	Joint Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot.[k-ft/rad]	Y Rot.[k-ft/rad]	Z Rot.[k-ft/rad]
1	N3	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
2	N2	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
3	N92A	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
4	N93A	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
5	N94	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
6	N95	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(...)	Section/Shape	Type	Design List	Material	Design R...
1	A3	N51	N50			Antenna Pipe	Beam	Pipe	A53 Gr.B	Typical
2	A2	N45	N44			Antenna Pipe	Beam	Pipe	A53 Gr.B	Typical
3	A1	N39	N38A			Antenna Pipe	Beam	Pipe	A53 Gr.B	Typical
4	B1	N77	N76			Antenna Pipe	Beam	Pipe	A53 Gr.B	Typical
5	B2	N71	N70			Antenna Pipe	Beam	Pipe	A53 Gr.B	Typical
6	B3	N65	N64			Antenna Pipe	Beam	Pipe	A53 Gr.B	Typical
7	M7	N49	N48			RIGID	None	None	RIGID	Typical
8	M8	N47	N46			RIGID	None	None	RIGID	Typical
9	M9	N43	N42			RIGID	None	None	RIGID	Typical
10	M10	N41	N40			RIGID	None	None	RIGID	Typical
11	M11	N38	N37			RIGID	None	None	RIGID	Typical
12	M12	N30	N29			RIGID	None	None	RIGID	Typical
13	M13	N74	N75			RIGID	None	None	RIGID	Typical
14	M14	N72	N73			RIGID	None	None	RIGID	Typical
15	M15	N68	N69			RIGID	None	None	RIGID	Typical
16	M16	N66	N67			RIGID	None	None	RIGID	Typical
17	M17	N62	N63			RIGID	None	None	RIGID	Typical
18	M18	N56	N57			RIGID	None	None	RIGID	Typical
19	M19	N36	N35			Mount Horizontals	Beam	Pipe	A53 Gr.B	Typical
20	M20	N28	N27			Mount Horizontals	Beam	Pipe	A53 Gr.B	Typical
21	M21	N61	N60			Mount Horizontals	Beam	Pipe	A53 Gr.B	Typical
22	M22	N55	N54			Mount Horizontals	Beam	Pipe	A53 Gr.B	Typical
23	M23	N34	N32			Mount Standoff	Beam	Tube	A500 G...	Typical
24	M24	N26	N19			Mount Standoff	Beam	Tube	A500 G...	Typical
25	M25	N59	N31			Mount Standoff	Beam	Tube	A500 G...	Typical
26	M26	N53	N18			Mount Standoff	Beam	Tube	A500 G...	Typical
27	M27	N20	N8			Column	Beam	Tube	A500 G...	Typical
28	M28	N21	N9			Column	Beam	Tube	A500 G...	Typical
29	M29	N31	N32		180	Horizontal	Beam	Single Angle	A36 Gr...	Typical
30	M30	N24	N25		180	Horizontal	Beam	Single Angle	A36 Gr...	Typical
31	M31	N8	N2			Column	Beam	Tube	A500 G...	Typical
32	M32	N9	N3			Column	Beam	Tube	A500 G...	Typical
33	M33	N17	N14		180	Diagonals	Beam	Single Angle	A36 Gr...	Typical
34	M34	N16	N15		180	Diagonals	Beam	Single Angle	A36 Gr...	Typical
35	M35	N13	N10		180	Diagonals	Beam	Single Angle	A36 Gr...	Typical



Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(...)	Section/Shape	Type	Design List	Material	Design R...
36	M36	N12	N11		180	Diagonals	Beam	Single Angle	A36 Gr...	Typical
37	M37	N7	N22		180	Diagonals	Beam	Single Angle	A36 Gr...	Typical
38	M38	N6	N23		180	Diagonals	Beam	Single Angle	A36 Gr...	Typical
39	M39	N23	N4		180	Diagonals	Beam	Single Angle	A36 Gr...	Typical
40	M40	N22	N5		180	Diagonals	Beam	Single Angle	A36 Gr...	Typical
41	M41	N80	N76A			Plate	Beam	RECT	A36 Gr...	Typical
42	M42	N82	N78			Plate	Beam	RECT	A36 Gr...	Typical
43	M43	N92	N88			Plate	Beam	RECT	A36 Gr...	Typical
44	M44	N90	N86			Plate	Beam	RECT	A36 Gr...	Typical
45	M45	N81	N77A			Plate	Beam	RECT	A36 Gr...	Typical
46	M46	N83	N79			Plate	Beam	RECT	A36 Gr...	Typical
47	M47	N93	N89			Plate	Beam	RECT	A36 Gr...	Typical
48	M48	N91	N87			Plate	Beam	RECT	A36 Gr...	Typical
49	M49	N80	N82			RIGID	None	None	RIGID	Typical
50	M50	N76A	N78			RIGID	None	None	RIGID	Typical
51	M51	N92	N90			RIGID	None	None	RIGID	Typical
52	M52	N88	N86			RIGID	None	None	RIGID	Typical
53	M53	N77A	N79			RIGID	None	None	RIGID	Typical
54	M54	N81	N83			RIGID	None	None	RIGID	Typical
55	M55	N93	N91			RIGID	None	None	RIGID	Typical
56	M56	N89	N87			RIGID	None	None	RIGID	Typical

Joint Loads and Enforced Displacements (BLC 42 : Man 1 (500 lbs))

	Joint Label	L,D,M	Direction	Magnitude[(k.k-ft), (in.rad), (k*s^2/ft...)]
1	N29	L	Y	-.5

Joint Loads and Enforced Displacements (BLC 43 : Man 2 (500 lbs))

	Joint Label	L,D,M	Direction	Magnitude[(k.k-ft), (in.rad), (k*s^2/ft...)]
1	N40	L	Y	-.5

Joint Loads and Enforced Displacements (BLC 44 : Man 3 (500 lbs))

	Joint Label	L,D,M	Direction	Magnitude[(k.k-ft), (in.rad), (k*s^2/ft...)]
1	N56	L	Y	-.5

Joint Loads and Enforced Displacements (BLC 45 : Man 4 (250 lbs))

	Joint Label	L,D,M	Direction	Magnitude[(k.k-ft), (in.rad), (k*s^2/ft...)]
1	N28	L	Y	-.25

Joint Loads and Enforced Displacements (BLC 46 : Man 5 (250 lbs))

	Joint Label	L,D,M	Direction	Magnitude[(k.k-ft), (in.rad), (k*s^2/ft...)]
1	N55	L	Y	-.25

Joint Loads and Enforced Displacements (BLC 47 : Man 6 (250 lbs))

	Joint Label	L,D,M	Direction	Magnitude[(k.k-ft), (in.rad), (k*s^2/ft...)]
1	N54	L	Y	-.25

Member Point Loads (BLC 1 : Dead)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	A1	Y	-.082	%50
2	A2	Y	-.075	%33.3
3	A2	Y	-.07	%66.7



Member Point Loads (BLC 1 : Dead) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
4	A3	Y	-.081	%50
5	A3	Y	-.035	%50
6	B1	Y	-.082	%50
7	B2	Y	-.075	%33.3
8	B2	Y	-.07	%66.7
9	B3	Y	-.081	%50
10	B3	Y	-.035	%50
11	M28	Y	-.032	%16.7
12	M27	Y	-.032	%16.7

Member Point Loads (BLC 2 : Ice Dead)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	A1	Y	-.057	%50
2	A2	Y	-.032	%33.3
3	A2	Y	-.025	%66.7
4	A3	Y	-.194	%50
5	A3	Y	-.023	%50
6	B1	Y	-.057	%50
7	B2	Y	-.032	%33.3
8	B2	Y	-.025	%66.7
9	B3	Y	-.194	%50
10	B3	Y	-.023	%50
11	M28	Y	-.051	%16.7
12	M27	Y	-.051	%16.7

Member Point Loads (BLC 3 : Full Wind Antenna (0 Deg))

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	A1	Z	-.056	%25.7
2	A2	Z	-.056	%33.3
3	A2	Z	-.045	%66.7
4	A3	Z	-.07	0
5	B1	Z	-.056	%25.7
6	B2	Z	-.056	%33.3
7	B2	Z	-.045	%66.7
8	B3	Z	-.07	0
9	M28	Z	-.091	%16.7
10	M27	Z	-.091	%16.7
11	A1	Z	-.056	%74.3
12	A3	Z	-.07	%100
13	B1	Z	-.056	%74.3
14	B3	Z	-.07	%100

Member Point Loads (BLC 4 : Full Wind Antenna (30 Deg))

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	A1	Z	-.041	%25.7
2	A2	Z	-.044	%33.3
3	A2	Z	-.035	%66.7
4	A3	Z	-.058	0
5	B1	Z	-.041	%25.7
6	B2	Z	-.044	%33.3
7	B2	Z	-.035	%66.7
8	B3	Z	-.058	0
9	M28	Z	-.072	%16.7
10	M27	Z	-.072	%16.7
11	A1	Z	-.041	%74.3



Member Point Loads (BLC 4 : Full Wind Antenna (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
12	A3	Z	-.058	%100
13	B1	Z	-.041	%74.3
14	B3	Z	-.058	%100
15	A1	X	.024	%25.7
16	A2	X	.026	%33.3
17	A2	X	.02	%66.7
18	A3	X	.033	0
19	A3	X	.003	%50
20	B1	X	.024	%25.7
21	B2	X	.026	%33.3
22	B2	X	.02	%66.7
23	B3	X	.033	0
24	B3	X	.003	%50
25	M28	X	.042	%16.7
26	M27	X	.042	%16.7
27	A1	X	.024	%74.3
28	A3	X	.033	%100
29	B1	X	.024	%74.3
30	B3	X	.033	%100

Member Point Loads (BLC 5 : Full Wind Antenna (60 Deg))

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	A1	Z	-.015	%25.7
2	A2	Z	-.021	%33.3
3	A2	Z	-.016	%66.7
4	A3	Z	-.03	0
5	B1	Z	-.015	%25.7
6	B2	Z	-.021	%33.3
7	B2	Z	-.016	%66.7
8	B3	Z	-.03	0
9	M28	Z	-.034	%16.7
10	M27	Z	-.034	%16.7
11	A1	Z	-.015	%74.3
12	A3	Z	-.03	%100
13	B1	Z	-.015	%74.3
14	B3	Z	-.03	%100
15	A1	X	.027	%25.7
16	A2	X	.037	%33.3
17	A2	X	.027	%66.7
18	A3	X	.052	0
19	A3	X	.001	%50
20	B1	X	.027	%25.7
21	B2	X	.037	%33.3
22	B2	X	.027	%66.7
23	B3	X	.052	0
24	B3	X	.001	%50
25	M28	X	.059	%16.7
26	M27	X	.059	%16.7
27	A1	X	.027	%74.3
28	A3	X	.052	%100
29	B1	X	.027	%74.3
30	B3	X	.052	%100

Member Point Loads (BLC 6 : Full Wind Antenna (90 Deg))

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	A1	Z	0	%25.7



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Member Point Loads (BLC 6 : Full Wind Antenna (90 Deg)) (Continued)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
2	A2	Z	0	%33.3
3	A2	Z	0	%66.7
4	A3	Z	0	0
5	B1	Z	0	%25.7
6	B2	Z	0	%33.3
7	B2	Z	0	%66.7
8	B3	Z	0	0
9	M28	Z	0	%16.7
10	M27	Z	0	%16.7
11	A1	Z	0	%74.3
12	A3	Z	0	%100
13	B1	Z	0	%74.3
14	B3	Z	0	%100
15	A1	X	.022	%25.7
16	A2	X	.038	%33.3
17	A2	X	.027	%66.7
18	A3	X	.057	0
19	B1	X	.022	%25.7
20	B2	X	.038	%33.3
21	B2	X	.027	%66.7
22	B3	X	.057	0
23	B3	X	0	%50
24	M28	X	.06	%16.7
25	M27	X	.06	%16.7
26	A1	X	.022	%74.3
27	A3	X	.057	%100
28	B1	X	.022	%74.3
29	B3	X	.057	%100

Member Point Loads (BLC 7 : Full Wind Antenna (120 Deg))

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	A1	Z	.015	%25.7
2	A2	Z	.021	%33.3
3	A2	Z	.016	%66.7
4	A3	Z	.03	0
5	B1	Z	.015	%25.7
6	B2	Z	.021	%33.3
7	B2	Z	.016	%66.7
8	B3	Z	.03	0
9	M28	Z	.034	%16.7
10	M27	Z	.034	%16.7
11	A1	Z	.015	%74.3
12	A3	Z	.03	%100
13	B1	Z	.015	%74.3
14	B3	Z	.03	%100
15	A1	X	.027	%25.7
16	A2	X	.037	%33.3
17	A2	X	.027	%66.7
18	A3	X	.052	0
19	A3	X	.001	%50
20	B1	X	.027	%25.7
21	B2	X	.037	%33.3
22	B2	X	.027	%66.7
23	B3	X	.052	0
24	B3	X	.001	%50
25	M28	X	.059	%16.7



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Member Point Loads (BLC 7 : Full Wind Antenna (120 Deg)) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
26	M27	X	.059	%16.7
27	A1	X	.027	%74.3
28	A3	X	.052	%100
29	B1	X	.027	%74.3
30	B3	X	.052	%100

Member Point Loads (BLC 8 : Full Wind Antenna (150 Deg))

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	A1	Z	.041	%25.7
2	A2	Z	.044	%33.3
3	A2	Z	.035	%66.7
4	A3	Z	.058	0
5	B1	Z	.041	%25.7
6	B2	Z	.044	%33.3
7	B2	Z	.035	%66.7
8	B3	Z	.058	0
9	M28	Z	.072	%16.7
10	M27	Z	.072	%16.7
11	A1	Z	.041	%74.3
12	A3	Z	.058	%100
13	B1	Z	.041	%74.3
14	B3	Z	.058	%100
15	A1	X	.024	%25.7
16	A2	X	.026	%33.3
17	A2	X	.02	%66.7
18	A3	X	.033	0
19	A3	X	.003	%50
20	B1	X	.024	%25.7
21	B2	X	.026	%33.3
22	B2	X	.02	%66.7
23	B3	X	.033	0
24	B3	X	.003	%50
25	M28	X	.042	%16.7
26	M27	X	.042	%16.7
27	A1	X	.024	%74.3
28	A3	X	.033	%100
29	B1	X	.024	%74.3
30	B3	X	.033	%100

Member Point Loads (BLC 15 : Ice Wind Antenna (0 Deg))

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	A1	Z	-.011	%25.7
2	A2	Z	-.012	%33.3
3	A2	Z	-.01	%66.7
4	A3	Z	-.04	0
5	B1	Z	-.011	%25.7
6	B2	Z	-.012	%33.3
7	B2	Z	-.01	%66.7
8	B3	Z	-.04	0
9	M28	Z	-.019	%16.7
10	M27	Z	-.019	%16.7
11	A1	Z	-.011	%74.3
12	A3	Z	-.04	%100
13	B1	Z	-.011	%74.3
14	B3	Z	-.04	%100



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Member Point Loads (BLC 16 : Ice Wind Antenna (30 Deg))

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	A1	Z	-.009	%25.7
2	A2	Z	-.01	%33.3
3	A2	Z	-.008	%66.7
4	A3	Z	-.032	0
5	B1	Z	-.009	%25.7
6	B2	Z	-.01	%33.3
7	B2	Z	-.008	%66.7
8	B3	Z	-.032	0
9	M28	Z	-.015	%16.7
10	M27	Z	-.015	%16.7
11	A1	Z	-.009	%74.3
12	A3	Z	-.032	%100
13	B1	Z	-.009	%74.3
14	B3	Z	-.032	%100
15	A1	X	.005	%25.7
16	A2	X	.006	%33.3
17	A2	X	.004	%66.7
18	A3	X	.018	0
19	A3	X	.001	%50
20	B1	X	.005	%25.7
21	B2	X	.006	%33.3
22	B2	X	.004	%66.7
23	B3	X	.018	0
24	B3	X	.001	%50
25	M28	X	.009	%16.7
26	M27	X	.009	%16.7
27	A1	X	.005	%74.3
28	A3	X	.018	%100
29	B1	X	.005	%74.3
30	B3	X	.018	%100

Member Point Loads (BLC 17 : Ice Wind Antenna (60 Deg))

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	A1	Z	-.003	%25.7
2	A2	Z	-.005	%33.3
3	A2	Z	-.004	%66.7
4	A3	Z	-.015	0
5	B1	Z	-.003	%25.7
6	B2	Z	-.005	%33.3
7	B2	Z	-.004	%66.7
8	B3	Z	-.015	0
9	M28	Z	-.007	%16.7
10	M27	Z	-.007	%16.7
11	A1	Z	-.003	%74.3
12	A3	Z	-.015	%100
13	B1	Z	-.003	%74.3
14	B3	Z	-.015	%100
15	A1	X	.006	%25.7
16	A2	X	.008	%33.3
17	A2	X	.006	%66.7
18	A3	X	.027	0
19	A3	X	0	%50
20	B1	X	.006	%25.7
21	B2	X	.008	%33.3
22	B2	X	.006	%66.7
23	B3	X	.027	0



Member Point Loads (BLC 17 : Ice Wind Antenna (60 Deg)) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
24	B3	X	0	%50
25	M28	X	.012	%16.7
26	M27	X	.012	%16.7
27	A1	X	.006	%74.3
28	A3	X	.027	%100
29	B1	X	.006	%74.3
30	B3	X	.027	%100

Member Point Loads (BLC 18 : Ice Wind Antenna (90 Deg))

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	A1	Z	0	%25.7
2	A2	Z	0	%33.3
3	A2	Z	0	%66.7
4	A3	Z	0	0
5	B1	Z	0	%25.7
6	B2	Z	0	%33.3
7	B2	Z	0	%66.7
8	B3	Z	0	0
9	M28	Z	0	%16.7
10	M27	Z	0	%16.7
11	A1	Z	0	%74.3
12	A3	Z	0	%100
13	B1	Z	0	%74.3
14	B3	Z	0	%100
15	A1	X	.005	%25.7
16	A2	X	.008	%33.3
17	A2	X	.006	%66.7
18	A3	X	.028	0
19	B1	X	.005	%25.7
20	B2	X	.008	%33.3
21	B2	X	.006	%66.7
22	B3	X	.028	0
23	B3	X	0	%50
24	M28	X	.013	%16.7
25	M27	X	.013	%16.7
26	A1	X	.005	%74.3
27	A3	X	.028	%100
28	B1	X	.005	%74.3
29	B3	X	.028	%100

Member Point Loads (BLC 19 : Ice Wind Antenna (120 Deg))

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	A1	Z	.003	%25.7
2	A2	Z	.005	%33.3
3	A2	Z	.004	%66.7
4	A3	Z	.015	0
5	B1	Z	.003	%25.7
6	B2	Z	.005	%33.3
7	B2	Z	.004	%66.7
8	B3	Z	.015	0
9	M28	Z	.007	%16.7
10	M27	Z	.007	%16.7
11	A1	Z	.003	%74.3
12	A3	Z	.015	%100
13	B1	Z	.003	%74.3
14	B3	Z	.015	%100



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Member Point Loads (BLC 19 : Ice Wind Antenna (120 Deg)) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
15	A1	X	.006	%25.7
16	A2	X	.008	%33.3
17	A2	X	.006	%66.7
18	A3	X	.027	0
19	A3	X	0	%50
20	B1	X	.006	%25.7
21	B2	X	.008	%33.3
22	B2	X	.006	%66.7
23	B3	X	.027	0
24	B3	X	0	%50
25	M28	X	.012	%16.7
26	M27	X	.012	%16.7
27	A1	X	.006	%74.3
28	A3	X	.027	%100
29	B1	X	.006	%74.3
30	B3	X	.027	%100

Member Point Loads (BLC 20 : Ice Wind Antenna (150 Deg))

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	A1	Z	.009	%25.7
2	A2	Z	.005	%33.3
3	A2	Z	.004	%66.7
4	A3	Z	.015	0
5	B1	Z	.003	%25.7
6	B2	Z	.005	%33.3
7	B2	Z	.004	%66.7
8	B3	Z	.015	0
9	M28	Z	.007	%16.7
10	M27	Z	.007	%16.7
11	A1	Z	.009	%74.3
12	A3	Z	.015	%100
13	B1	Z	.003	%74.3
14	B3	Z	.015	%100
15	A1	X	.005	%25.7
16	A2	X	.008	%33.3
17	A2	X	.006	%66.7
18	A3	X	.027	0
19	A3	X	0	%50
20	B1	X	.006	%25.7
21	B2	X	.008	%33.3
22	B2	X	.006	%66.7
23	B3	X	.027	0
24	B3	X	0	%50
25	M28	X	.012	%16.7
26	M27	X	.012	%16.7
27	A1	X	.005	%74.3
28	A3	X	.027	%100
29	B1	X	.006	%74.3
30	B3	X	.027	%100

Member Point Loads (BLC 27 : Seismic Antenna (0 Deg))

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	A1	Z	-.007	%50
2	A2	Z	-.006	%33.3
3	A2	Z	-.006	%66.7
4	A3	Z	-.007	%50



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft.%]
5	A3	Z	-.003	%50
6	B1	Z	-.007	%50
7	B2	Z	-.006	%33.3
8	B2	Z	-.006	%66.7
9	B3	Z	-.007	%50
10	B3	Z	-.003	%50
11	M28	Z	-.003	%16.7
12	M27	Z	-.003	%16.7

Member Point Loads (BLC 28 : Seismic Antenna (90 Deg))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft.%]
1	A1	X	.007	%50
2	A2	X	.006	%33.3
3	A2	X	.006	%66.7
4	A3	X	.007	%50
5	A3	X	.003	%50
6	B1	X	.007	%50
7	B2	X	.006	%33.3
8	B2	X	.006	%66.7
9	B3	X	.007	%50
10	B3	X	.003	%50
11	M28	X	.003	%16.7
12	M27	X	.003	%16.7

Member Point Loads (BLC 41 : Seismic Vertical Antennas)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft.%]
1	A1	Y	-.003	%50
2	A2	Y	-.003	%33.3
3	A2	Y	-.003	%66.7
4	A3	Y	-.003	%50
5	A3	Y	-.001	%50
6	B1	Y	-.003	%50
7	B2	Y	-.003	%33.3
8	B2	Y	-.003	%66.7
9	B3	Y	-.003	%50
10	B3	Y	-.001	%50
11	M28	Y	-.001	%16.7
12	M27	Y	-.001	%16.7

Member Distributed Loads (BLC 2 : Ice Dead)

	Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
1	A3	Y	-.004	-.004	0	%100
2	A2	Y	-.004	-.004	0	%100
3	A1	Y	-.004	-.004	0	%100
4	B1	Y	-.004	-.004	0	%100
5	B2	Y	-.004	-.004	0	%100
6	B3	Y	-.004	-.004	0	%100
7	M7	Y	-.001	-.001	0	%100
8	M8	Y	-.001	-.001	0	%100
9	M9	Y	-.001	-.001	0	%100
10	M10	Y	-.001	-.001	0	%100
11	M11	Y	-.001	-.001	0	%100
12	M12	Y	-.001	-.001	0	%100
13	M13	Y	-.001	-.001	0	%100



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Member Distributed Loads (BLC 2 : Ice Dead) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
14	M14	Y	-0.01	-0.01	0	%100
15	M15	Y	-0.01	-0.01	0	%100
16	M16	Y	-0.01	-0.01	0	%100
17	M17	Y	-0.01	-0.01	0	%100
18	M18	Y	-0.01	-0.01	0	%100
19	M19	Y	-0.04	-0.04	0	%100
20	M20	Y	-0.04	-0.04	0	%100
21	M21	Y	-0.04	-0.04	0	%100
22	M22	Y	-0.04	-0.04	0	%100
23	M23	Y	-0.1	-0.1	0	%100
24	M24	Y	-0.1	-0.1	0	%100
25	M25	Y	-0.1	-0.1	0	%100
26	M26	Y	-0.1	-0.1	0	%100
27	M27	Y	-0.15	-0.15	0	%100
28	M28	Y	-0.15	-0.15	0	%100
29	M29	Y	-0.07	-0.07	0	%100
30	M30	Y	-0.07	-0.07	0	%100
31	M31	Y	-0.15	-0.15	0	%100
32	M32	Y	-0.15	-0.15	0	%100
33	M33	Y	-0.07	-0.07	0	%100
34	M34	Y	-0.07	-0.07	0	%100
35	M35	Y	-0.07	-0.07	0	%100
36	M36	Y	-0.07	-0.07	0	%100
37	M37	Y	-0.07	-0.07	0	%100
38	M38	Y	-0.07	-0.07	0	%100
39	M39	Y	-0.07	-0.07	0	%100
40	M40	Y	-0.07	-0.07	0	%100
41	M41	Y	-0.11	-0.11	0	%100
42	M42	Y	-0.11	-0.11	0	%100
43	M43	Y	-0.11	-0.11	0	%100
44	M44	Y	-0.11	-0.11	0	%100
45	M45	Y	-0.11	-0.11	0	%100
46	M46	Y	-0.11	-0.11	0	%100
47	M47	Y	-0.11	-0.11	0	%100
48	M48	Y	-0.11	-0.11	0	%100
49	M49	Y	-0.01	-0.01	0	%100
50	M50	Y	-0.01	-0.01	0	%100
51	M51	Y	-0.01	-0.01	0	%100
52	M52	Y	-0.01	-0.01	0	%100
53	M53	Y	-0.01	-0.01	0	%100
54	M54	Y	-0.01	-0.01	0	%100
55	M55	Y	-0.01	-0.01	0	%100
56	M56	Y	-0.01	-0.01	0	%100

Member Distributed Loads (BLC 9 : Full Wind Members (0 Deg))

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	A2	Z	-0.06	-0.06	0	%20.4
2	A1	Z	-0.06	-0.06	0	%25.7
3	B1	Z	-0.06	-0.06	0	%25.7
4	B2	Z	-0.06	-0.06	0	%20.4
5	M19	Z	-0.07	-0.07	0	%100
6	M20	Z	-0.07	-0.07	0	%100
7	M21	Z	-0.07	-0.07	0	%100
8	M22	Z	-0.07	-0.07	0	%100
9	M23	Z	0	0	0	%100
10	M24	Z	0	0	0	%100



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Member Distributed Loads (BLC 9 : Full Wind Members (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
11	M25	Z	0	0	0	%100
12	M26	Z	0	0	0	%100
13	M27	Z	-0.048	-0.048	0	%12.2
14	M28	Z	-0.048	-0.048	0	%12.2
15	M29	Z	0	0	0	%100
16	M30	Z	0	0	0	%100
17	M31	Z	-0.048	-0.048	0	%100
18	M32	Z	-0.048	-0.048	0	%100
19	M33	Z	-0.014	-0.014	0	%100
20	M34	Z	-0.014	-0.014	0	%100
21	M35	Z	-0.014	-0.014	0	%100
22	M36	Z	-0.014	-0.014	0	%100
23	M37	Z	-0.014	-0.014	0	%100
24	M38	Z	-0.014	-0.014	0	%100
25	M39	Z	-0.014	-0.014	0	%100
26	M40	Z	-0.014	-0.014	0	%100
27	M41	Z	-0.036	-0.036	0	%100
28	M42	Z	-0.036	-0.036	0	%100
29	M43	Z	-0.036	-0.036	0	%100
30	M44	Z	-0.036	-0.036	0	%100
31	M45	Z	-0.036	-0.036	0	%100
32	M46	Z	-0.036	-0.036	0	%100
33	M47	Z	-0.036	-0.036	0	%100
34	M48	Z	-0.036	-0.036	0	%100
35	A2	Z	-0.006	-0.006	%77.1	%100
36	A1	Z	-0.006	-0.006	%74.3	%100
37	B1	Z	-0.006	-0.006	%74.3	%100
38	B2	Z	-0.006	-0.006	%77.1	%100
39	M27	Z	-0.048	-0.048	%21.1	%100
40	M28	Z	-0.048	-0.048	%21.1	%100
41	A3	X	0	0	0	%100
42	A2	X	0	0	0	%100
43	A1	X	0	0	0	%100
44	B1	X	0	0	0	%100
45	B2	X	0	0	0	%100
46	B3	X	0	0	0	%100
47	M19	X	0	0	0	%100
48	M20	X	0	0	0	%100
49	M21	X	0	0	0	%100
50	M22	X	0	0	0	%100
51	M23	X	0	0	0	%100
52	M24	X	0	0	0	%100
53	M25	X	0	0	0	%100
54	M26	X	0	0	0	%100
55	M27	X	0	0	0	%100
56	M28	X	0	0	0	%100
57	M29	X	0	0	0	%100
58	M30	X	0	0	0	%100
59	M31	X	0	0	0	%100
60	M32	X	0	0	0	%100
61	M33	X	0	0	0	%100
62	M34	X	0	0	0	%100
63	M35	X	0	0	0	%100
64	M36	X	0	0	0	%100
65	M37	X	0	0	0	%100
66	M38	X	0	0	0	%100
67	M39	X	0	0	0	%100



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Member Distributed Loads (BLC 9 : Full Wind Members (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
68	M40	X	0	0	0	%100
69	M41	X	0	0	0	%100
70	M42	X	0	0	0	%100
71	M43	X	0	0	0	%100
72	M44	X	0	0	0	%100
73	M45	X	0	0	0	%100
74	M46	X	0	0	0	%100
75	M47	X	0	0	0	%100
76	M48	X	0	0	0	%100

Member Distributed Loads (BLC 10 : Full Wind Members (30 Deg))

	Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
1	A2	Z	-.005	-.005	0	%20.4
2	A1	Z	-.005	-.005	0	%25.7
3	B1	Z	-.005	-.005	0	%25.7
4	B2	Z	-.005	-.005	0	%20.4
5	M19	Z	-.005	-.005	0	%100
6	M20	Z	-.005	-.005	0	%100
7	M21	Z	-.005	-.005	0	%100
8	M22	Z	-.005	-.005	0	%100
9	M23	Z	-.005	-.005	0	%100
10	M24	Z	-.005	-.005	0	%100
11	M25	Z	-.005	-.005	0	%100
12	M26	Z	-.005	-.005	0	%100
13	M27	Z	-.042	-.042	0	%12.2
14	M28	Z	-.042	-.042	0	%12.2
15	M29	Z	-.003	-.003	0	%100
16	M30	Z	-.003	-.003	0	%100
17	M31	Z	-.042	-.042	0	%100
18	M32	Z	-.042	-.042	0	%100
19	M33	Z	-.012	-.012	0	%100
20	M34	Z	-.012	-.012	0	%100
21	M35	Z	-.012	-.012	0	%100
22	M36	Z	-.012	-.012	0	%100
23	M37	Z	-.012	-.012	0	%100
24	M38	Z	-.012	-.012	0	%100
25	M39	Z	-.012	-.012	0	%100
26	M40	Z	-.012	-.012	0	%100
27	M41	Z	-.023	-.023	0	%100
28	M42	Z	-.023	-.023	0	%100
29	M43	Z	-.023	-.023	0	%100
30	M44	Z	-.023	-.023	0	%100
31	M45	Z	-.023	-.023	0	%100
32	M46	Z	-.023	-.023	0	%100
33	M47	Z	-.023	-.023	0	%100
34	M48	Z	-.023	-.023	0	%100
35	A2	Z	-.005	-.005	%77.1	%100
36	A1	Z	-.005	-.005	%74.3	%100
37	B1	Z	-.005	-.005	%74.3	%100
38	B2	Z	-.005	-.005	%77.1	%100
39	M27	Z	-.042	-.042	%21.1	%100
40	M28	Z	-.042	-.042	%21.1	%100
41	A3	X	.003	.003	0	%100
42	A2	X	.003	.003	0	%100
43	A1	X	.003	.003	0	%100
44	B1	X	.003	.003	0	%100



Member Distributed Loads (BLC 10 : Full Wind Members (30 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
45	B2	X	.003	.003	0	%100
46	B3	X	.003	.003	0	%100
47	M19	X	.003	.003	0	%100
48	M20	X	.003	.003	0	%100
49	M21	X	.003	.003	0	%100
50	M22	X	.003	.003	0	%100
51	M23	X	.003	.003	0	%100
52	M24	X	.003	.003	0	%100
53	M25	X	.003	.003	0	%100
54	M26	X	.003	.003	0	%100
55	M27	X	.024	.024	0	%100
56	M28	X	.024	.024	0	%100
57	M29	X	.002	.002	0	%100
58	M30	X	.002	.002	0	%100
59	M31	X	.024	.024	0	%100
60	M32	X	.024	.024	0	%100
61	M33	X	.007	.007	0	%100
62	M34	X	.007	.007	0	%100
63	M35	X	.007	.007	0	%100
64	M36	X	.007	.007	0	%100
65	M37	X	.007	.007	0	%100
66	M38	X	.007	.007	0	%100
67	M39	X	.007	.007	0	%100
68	M40	X	.007	.007	0	%100
69	M41	X	.014	.014	0	%100
70	M42	X	.014	.014	0	%100
71	M43	X	.014	.014	0	%100
72	M44	X	.014	.014	0	%100
73	M45	X	.014	.014	0	%100
74	M46	X	.014	.014	0	%100
75	M47	X	.014	.014	0	%100
76	M48	X	.014	.014	0	%100

Member Distributed Loads (BLC 11 : Full Wind Members (60 Deg))

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	A2	Z	-.003	-.003	0	%20.4
2	A1	Z	-.003	-.003	0	%25.7
3	B1	Z	-.003	-.003	0	%25.7
4	B2	Z	-.003	-.003	0	%20.4
5	M19	Z	-.001	-.001	0	%100
6	M20	Z	-.001	-.001	0	%100
7	M21	Z	-.001	-.001	0	%100
8	M22	Z	-.001	-.001	0	%100
9	M23	Z	-.009	-.009	0	%100
10	M24	Z	-.009	-.009	0	%100
11	M25	Z	-.009	-.009	0	%100
12	M26	Z	-.009	-.009	0	%100
13	M27	Z	-.024	-.024	0	%12.2
14	M28	Z	-.024	-.024	0	%12.2
15	M29	Z	-.006	-.006	0	%100
16	M30	Z	-.006	-.006	0	%100
17	M31	Z	-.024	-.024	0	%100
18	M32	Z	-.024	-.024	0	%100
19	M33	Z	-.008	-.008	0	%100
20	M34	Z	-.008	-.008	0	%100
21	M35	Z	-.008	-.008	0	%100



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Member Distributed Loads (BLC 11 : Full Wind Members (60 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
22	M36	Z	-.008	-.008	0	%100
23	M37	Z	-.008	-.008	0	%100
24	M38	Z	-.008	-.008	0	%100
25	M39	Z	-.008	-.008	0	%100
26	M40	Z	-.008	-.008	0	%100
27	M41	Z	-.005	-.005	0	%100
28	M42	Z	-.005	-.005	0	%100
29	M43	Z	-.005	-.005	0	%100
30	M44	Z	-.005	-.005	0	%100
31	M45	Z	-.005	-.005	0	%100
32	M46	Z	-.005	-.005	0	%100
33	M47	Z	-.005	-.005	0	%100
34	M48	Z	-.005	-.005	0	%100
35	A2	Z	-.003	-.003	%77.1	%100
36	A1	Z	-.003	-.003	%74.3	%100
37	B1	Z	-.003	-.003	%74.3	%100
38	B2	Z	-.003	-.003	%77.1	%100
39	M27	Z	-.024	-.024	%21.1	%100
40	M28	Z	-.024	-.024	%21.1	%100
41	A3	X	.005	.005	0	%100
42	A2	X	.005	.005	0	%100
43	A1	X	.005	.005	0	%100
44	B1	X	.005	.005	0	%100
45	B2	X	.005	.005	0	%100
46	B3	X	.005	.005	0	%100
47	M19	X	.002	.002	0	%100
48	M20	X	.002	.002	0	%100
49	M21	X	.002	.002	0	%100
50	M22	X	.002	.002	0	%100
51	M23	X	.016	.016	0	%100
52	M24	X	.016	.016	0	%100
53	M25	X	.016	.016	0	%100
54	M26	X	.016	.016	0	%100
55	M27	X	.042	.042	0	%100
56	M28	X	.042	.042	0	%100
57	M29	X	.01	.01	0	%100
58	M30	X	.01	.01	0	%100
59	M31	X	.042	.042	0	%100
60	M32	X	.042	.042	0	%100
61	M33	X	.013	.013	0	%100
62	M34	X	.013	.013	0	%100
63	M35	X	.013	.013	0	%100
64	M36	X	.013	.013	0	%100
65	M37	X	.013	.013	0	%100
66	M38	X	.013	.013	0	%100
67	M39	X	.013	.013	0	%100
68	M40	X	.013	.013	0	%100
69	M41	X	.008	.008	0	%100
70	M42	X	.008	.008	0	%100
71	M43	X	.008	.008	0	%100
72	M44	X	.008	.008	0	%100
73	M45	X	.008	.008	0	%100
74	M46	X	.008	.008	0	%100
75	M47	X	.008	.008	0	%100
76	M48	X	.008	.008	0	%100



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Member Distributed Loads (BLC 12 : Full Wind Members (90 Deg))

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	A2	Z	0	0	0	%20.4
2	A1	Z	0	0	0	%25.7
3	B1	Z	0	0	0	%25.7
4	B2	Z	0	0	0	%20.4
5	M19	Z	0	0	0	%100
6	M20	Z	0	0	0	%100
7	M21	Z	0	0	0	%100
8	M22	Z	0	0	0	%100
9	M23	Z	0	0	0	%100
10	M24	Z	0	0	0	%100
11	M25	Z	0	0	0	%100
12	M26	Z	0	0	0	%100
13	M27	Z	0	0	0	%12.2
14	M28	Z	0	0	0	%12.2
15	M29	Z	0	0	0	%100
16	M30	Z	0	0	0	%100
17	M31	Z	0	0	0	%100
18	M32	Z	0	0	0	%100
19	M33	Z	0	0	0	%100
20	M34	Z	0	0	0	%100
21	M35	Z	0	0	0	%100
22	M36	Z	0	0	0	%100
23	M37	Z	0	0	0	%100
24	M38	Z	0	0	0	%100
25	M39	Z	0	0	0	%100
26	M40	Z	0	0	0	%100
27	M41	Z	0	0	0	%100
28	M42	Z	0	0	0	%100
29	M43	Z	0	0	0	%100
30	M44	Z	0	0	0	%100
31	M45	Z	0	0	0	%100
32	M46	Z	0	0	0	%100
33	M47	Z	0	0	0	%100
34	M48	Z	0	0	0	%100
35	A2	Z	0	0	%77.1	%100
36	A1	Z	0	0	%74.3	%100
37	B1	Z	0	0	%74.3	%100
38	B2	Z	0	0	%77.1	%100
39	M27	Z	0	0	%21.1	%100
40	M28	Z	0	0	%21.1	%100
41	A3	X	.006	.006	0	%100
42	A2	X	.006	.006	0	%100
43	A1	X	.006	.006	0	%100
44	B1	X	.006	.006	0	%100
45	B2	X	.006	.006	0	%100
46	B3	X	.006	.006	0	%100
47	M19	X	0	0	0	%100
48	M20	X	0	0	0	%100
49	M21	X	0	0	0	%100
50	M22	X	0	0	0	%100
51	M23	X	.024	.024	0	%100
52	M24	X	.024	.024	0	%100
53	M25	X	.024	.024	0	%100
54	M26	X	.024	.024	0	%100
55	M27	X	.048	.048	0	%100
56	M28	X	.048	.048	0	%100
57	M29	X	.016	.016	0	%100



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Member Distributed Loads (BLC 12 : Full Wind Members (90 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
58	M30	X	.016	.016	0	%100
59	M31	X	.048	.048	0	%100
60	M32	X	.048	.048	0	%100
61	M33	X	.016	.016	0	%100
62	M34	X	.016	.016	0	%100
63	M35	X	.016	.016	0	%100
64	M36	X	.016	.016	0	%100
65	M37	X	.016	.016	0	%100
66	M38	X	.016	.016	0	%100
67	M39	X	.016	.016	0	%100
68	M40	X	.016	.016	0	%100
69	M41	X	0	0	0	%100
70	M42	X	0	0	0	%100
71	M43	X	0	0	0	%100
72	M44	X	0	0	0	%100
73	M45	X	0	0	0	%100
74	M46	X	0	0	0	%100
75	M47	X	0	0	0	%100
76	M48	X	0	0	0	%100

Member Distributed Loads (BLC 13 : Full Wind Members (120 Deg))

	Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
1	A2	Z	.003	.003	0	%20.4
2	A1	Z	.003	.003	0	%25.7
3	B1	Z	.003	.003	0	%25.7
4	B2	Z	.003	.003	0	%20.4
5	M19	Z	.001	.001	0	%100
6	M20	Z	.001	.001	0	%100
7	M21	Z	.001	.001	0	%100
8	M22	Z	.001	.001	0	%100
9	M23	Z	.009	.009	0	%100
10	M24	Z	.009	.009	0	%100
11	M25	Z	.009	.009	0	%100
12	M26	Z	.009	.009	0	%100
13	M27	Z	.024	.024	0	%12.2
14	M28	Z	.024	.024	0	%12.2
15	M29	Z	.006	.006	0	%100
16	M30	Z	.006	.006	0	%100
17	M31	Z	.024	.024	0	%100
18	M32	Z	.024	.024	0	%100
19	M33	Z	.008	.008	0	%100
20	M34	Z	.008	.008	0	%100
21	M35	Z	.008	.008	0	%100
22	M36	Z	.008	.008	0	%100
23	M37	Z	.008	.008	0	%100
24	M38	Z	.008	.008	0	%100
25	M39	Z	.008	.008	0	%100
26	M40	Z	.008	.008	0	%100
27	M41	Z	.005	.005	0	%100
28	M42	Z	.005	.005	0	%100
29	M43	Z	.005	.005	0	%100
30	M44	Z	.005	.005	0	%100
31	M45	Z	.005	.005	0	%100
32	M46	Z	.005	.005	0	%100
33	M47	Z	.005	.005	0	%100
34	M48	Z	.005	.005	0	%100



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Member Distributed Loads (BLC 13 : Full Wind Members (120 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
35	A2	Z	.003	.003	%77.1	%100
36	A1	Z	.003	.003	%74.3	%100
37	B1	Z	.003	.003	%74.3	%100
38	B2	Z	.003	.003	%77.1	%100
39	M27	Z	.024	.024	%21.1	%100
40	M28	Z	.024	.024	%21.1	%100
41	A3	X	.005	.005	0	%100
42	A2	X	.005	.005	0	%100
43	A1	X	.005	.005	0	%100
44	B1	X	.005	.005	0	%100
45	B2	X	.005	.005	0	%100
46	B3	X	.005	.005	0	%100
47	M19	X	.002	.002	0	%100
48	M20	X	.002	.002	0	%100
49	M21	X	.002	.002	0	%100
50	M22	X	.002	.002	0	%100
51	M23	X	.016	.016	0	%100
52	M24	X	.016	.016	0	%100
53	M25	X	.016	.016	0	%100
54	M26	X	.016	.016	0	%100
55	M27	X	.042	.042	0	%100
56	M28	X	.042	.042	0	%100
57	M29	X	.01	.01	0	%100
58	M30	X	.01	.01	0	%100
59	M31	X	.042	.042	0	%100
60	M32	X	.042	.042	0	%100
61	M33	X	.013	.013	0	%100
62	M34	X	.013	.013	0	%100
63	M35	X	.013	.013	0	%100
64	M36	X	.013	.013	0	%100
65	M37	X	.013	.013	0	%100
66	M38	X	.013	.013	0	%100
67	M39	X	.013	.013	0	%100
68	M40	X	.013	.013	0	%100
69	M41	X	.008	.008	0	%100
70	M42	X	.008	.008	0	%100
71	M43	X	.008	.008	0	%100
72	M44	X	.008	.008	0	%100
73	M45	X	.008	.008	0	%100
74	M46	X	.008	.008	0	%100
75	M47	X	.008	.008	0	%100
76	M48	X	.008	.008	0	%100

Member Distributed Loads (BLC 14 : Full Wind Members (150 Deg))

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	A2	Z	.005	.005	0	%20.4
2	A1	Z	.005	.005	0	%25.7
3	B1	Z	.005	.005	0	%25.7
4	B2	Z	.005	.005	0	%20.4
5	M19	Z	.005	.005	0	%100
6	M20	Z	.005	.005	0	%100
7	M21	Z	.005	.005	0	%100
8	M22	Z	.005	.005	0	%100
9	M23	Z	.005	.005	0	%100
10	M24	Z	.005	.005	0	%100
11	M25	Z	.005	.005	0	%100



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Member Distributed Loads (BLC 14 : Full Wind Members (150 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
12	M26	Z	.005	.005	0	%100
13	M27	Z	.042	.042	0	%12.2
14	M28	Z	.042	.042	0	%12.2
15	M29	Z	.003	.003	0	%100
16	M30	Z	.003	.003	0	%100
17	M31	Z	.042	.042	0	%100
18	M32	Z	.042	.042	0	%100
19	M33	Z	.012	.012	0	%100
20	M34	Z	.012	.012	0	%100
21	M35	Z	.012	.012	0	%100
22	M36	Z	.012	.012	0	%100
23	M37	Z	.012	.012	0	%100
24	M38	Z	.012	.012	0	%100
25	M39	Z	.012	.012	0	%100
26	M40	Z	.012	.012	0	%100
27	M41	Z	.023	.023	0	%100
28	M42	Z	.023	.023	0	%100
29	M43	Z	.023	.023	0	%100
30	M44	Z	.023	.023	0	%100
31	M45	Z	.023	.023	0	%100
32	M46	Z	.023	.023	0	%100
33	M47	Z	.023	.023	0	%100
34	M48	Z	.023	.023	0	%100
35	A2	Z	.005	.005	%77.1	%100
36	A1	Z	.005	.005	%74.3	%100
37	B1	Z	.005	.005	%74.3	%100
38	B2	Z	.005	.005	%77.1	%100
39	M27	Z	.042	.042	%21.1	%100
40	M28	Z	.042	.042	%21.1	%100
41	A3	X	.003	.003	0	%100
42	A2	X	.003	.003	0	%100
43	A1	X	.003	.003	0	%100
44	B1	X	.003	.003	0	%100
45	B2	X	.003	.003	0	%100
46	B3	X	.003	.003	0	%100
47	M19	X	.003	.003	0	%100
48	M20	X	.003	.003	0	%100
49	M21	X	.003	.003	0	%100
50	M22	X	.003	.003	0	%100
51	M23	X	.003	.003	0	%100
52	M24	X	.003	.003	0	%100
53	M25	X	.003	.003	0	%100
54	M26	X	.003	.003	0	%100
55	M27	X	.024	.024	0	%100
56	M28	X	.024	.024	0	%100
57	M29	X	.002	.002	0	%100
58	M30	X	.002	.002	0	%100
59	M31	X	.024	.024	0	%100
60	M32	X	.024	.024	0	%100
61	M33	X	.007	.007	0	%100
62	M34	X	.007	.007	0	%100
63	M35	X	.007	.007	0	%100
64	M36	X	.007	.007	0	%100
65	M37	X	.007	.007	0	%100
66	M38	X	.007	.007	0	%100
67	M39	X	.007	.007	0	%100
68	M40	X	.007	.007	0	%100



Company : MasTec Network Solutions
 Designer : RSC
 Job Number : 46129-RSA1
 Model Name : 467170 - NAUGATUCK_4_CT

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Member Distributed Loads (BLC 14 : Full Wind Members (150 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
69	M41	X	.014	.014	0	%100
70	M42	X	.014	.014	0	%100
71	M43	X	.014	.014	0	%100
72	M44	X	.014	.014	0	%100
73	M45	X	.014	.014	0	%100
74	M46	X	.014	.014	0	%100
75	M47	X	.014	.014	0	%100
76	M48	X	.014	.014	0	%100

Member Distributed Loads (BLC 21 : Ice Wind Members (0 Deg))

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	A2	Z	-.002	-.002	0	%20.4
2	A1	Z	-.002	-.002	0	%25.7
3	B1	Z	-.002	-.002	0	%25.7
4	B2	Z	-.002	-.002	0	%20.4
5	M7	Z	0	0	0	%100
6	M8	Z	0	0	0	%100
7	M9	Z	0	0	0	%100
8	M10	Z	0	0	0	%100
9	M11	Z	0	0	0	%100
10	M12	Z	0	0	0	%100
11	M13	Z	0	0	0	%100
12	M14	Z	0	0	0	%100
13	M15	Z	0	0	0	%100
14	M16	Z	0	0	0	%100
15	M17	Z	0	0	0	%100
16	M18	Z	0	0	0	%100
17	M19	Z	-.002	-.002	0	%100
18	M20	Z	-.002	-.002	0	%100
19	M21	Z	-.002	-.002	0	%100
20	M22	Z	-.002	-.002	0	%100
21	M23	Z	0	0	0	%100
22	M24	Z	0	0	0	%100
23	M25	Z	0	0	0	%100
24	M26	Z	0	0	0	%100
25	M27	Z	-.009	-.009	0	%12.2
26	M28	Z	-.009	-.009	0	%12.2
27	M29	Z	0	0	0	%100
28	M30	Z	0	0	0	%100
29	M31	Z	-.009	-.009	0	%100
30	M32	Z	-.009	-.009	0	%100
31	M33	Z	-.003	-.003	0	%100
32	M34	Z	-.003	-.003	0	%100
33	M35	Z	-.003	-.003	0	%100
34	M36	Z	-.003	-.003	0	%100
35	M37	Z	-.003	-.003	0	%100
36	M38	Z	-.003	-.003	0	%100
37	M39	Z	-.003	-.003	0	%100
38	M40	Z	-.003	-.003	0	%100
39	M41	Z	-.008	-.008	0	%100
40	M42	Z	-.008	-.008	0	%100
41	M43	Z	-.008	-.008	0	%100
42	M44	Z	-.008	-.008	0	%100
43	M45	Z	-.008	-.008	0	%100
44	M46	Z	-.008	-.008	0	%100
45	M47	Z	-.008	-.008	0	%100



Company : MasTec Network Solutions
 Designer : RSC
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Member Distributed Loads (BLC 21 : Ice Wind Members (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
46	M48	Z	-.008	-.008	0	%100
47	M49	Z	0	0	0	%100
48	M50	Z	0	0	0	%100
49	M51	Z	0	0	0	%100
50	M52	Z	0	0	0	%100
51	M53	Z	0	0	0	%100
52	M54	Z	0	0	0	%100
53	M55	Z	0	0	0	%100
54	M56	Z	0	0	0	%100
55	A2	Z	-.002	-.002	%77.1	%100
56	A1	Z	-.002	-.002	%74.3	%100
57	B1	Z	-.002	-.002	%74.3	%100
58	B2	Z	-.002	-.002	%77.1	%100
59	M27	Z	-.009	-.009	%21.1	%100
60	M28	Z	-.009	-.009	%21.1	%100
61	A3	X	0	0	0	%100
62	A2	X	0	0	0	%100
63	A1	X	0	0	0	%100
64	B1	X	0	0	0	%100
65	B2	X	0	0	0	%100
66	B3	X	0	0	0	%100
67	M7	X	0	0	0	%100
68	M8	X	0	0	0	%100
69	M9	X	0	0	0	%100
70	M10	X	0	0	0	%100
71	M11	X	0	0	0	%100
72	M12	X	0	0	0	%100
73	M13	X	0	0	0	%100
74	M14	X	0	0	0	%100
75	M15	X	0	0	0	%100
76	M16	X	0	0	0	%100
77	M17	X	0	0	0	%100
78	M18	X	0	0	0	%100
79	M19	X	0	0	0	%100
80	M20	X	0	0	0	%100
81	M21	X	0	0	0	%100
82	M22	X	0	0	0	%100
83	M23	X	0	0	0	%100
84	M24	X	0	0	0	%100
85	M25	X	0	0	0	%100
86	M26	X	0	0	0	%100
87	M27	X	0	0	0	%100
88	M28	X	0	0	0	%100
89	M29	X	0	0	0	%100
90	M30	X	0	0	0	%100
91	M31	X	0	0	0	%100
92	M32	X	0	0	0	%100
93	M33	X	0	0	0	%100
94	M34	X	0	0	0	%100
95	M35	X	0	0	0	%100
96	M36	X	0	0	0	%100
97	M37	X	0	0	0	%100
98	M38	X	0	0	0	%100
99	M39	X	0	0	0	%100
100	M40	X	0	0	0	%100
101	M41	X	0	0	0	%100
102	M42	X	0	0	0	%100



Member Distributed Loads (BLC 21 : Ice Wind Members (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
103	M43	X	0	0	0	%100
104	M44	X	0	0	0	%100
105	M45	X	0	0	0	%100
106	M46	X	0	0	0	%100
107	M47	X	0	0	0	%100
108	M48	X	0	0	0	%100
109	M49	X	0	0	0	%100
110	M50	X	0	0	0	%100
111	M51	X	0	0	0	%100
112	M52	X	0	0	0	%100
113	M53	X	0	0	0	%100
114	M54	X	0	0	0	%100
115	M55	X	0	0	0	%100
116	M56	X	0	0	0	%100

Member Distributed Loads (BLC 22 : Ice Wind Members (30 Deg))

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	A2	Z	-0.002	-0.002	0	%20.4
2	A1	Z	-0.002	-0.002	0	%25.7
3	B1	Z	-0.002	-0.002	0	%25.7
4	B2	Z	-0.002	-0.002	0	%20.4
5	M7	Z	0	0	0	%100
6	M8	Z	0	0	0	%100
7	M9	Z	0	0	0	%100
8	M10	Z	0	0	0	%100
9	M11	Z	0	0	0	%100
10	M12	Z	0	0	0	%100
11	M13	Z	0	0	0	%100
12	M14	Z	0	0	0	%100
13	M15	Z	0	0	0	%100
14	M16	Z	0	0	0	%100
15	M17	Z	0	0	0	%100
16	M18	Z	0	0	0	%100
17	M19	Z	-0.001	-0.001	0	%100
18	M20	Z	-0.001	-0.001	0	%100
19	M21	Z	-0.001	-0.001	0	%100
20	M22	Z	-0.001	-0.001	0	%100
21	M23	Z	-0.001	-0.001	0	%100
22	M24	Z	-0.001	-0.001	0	%100
23	M25	Z	-0.001	-0.001	0	%100
24	M26	Z	-0.001	-0.001	0	%100
25	M27	Z	-0.008	-0.008	0	%12.2
26	M28	Z	-0.008	-0.008	0	%12.2
27	M29	Z	-0.001	-0.001	0	%100
28	M30	Z	-0.001	-0.001	0	%100
29	M31	Z	-0.008	-0.008	0	%100
30	M32	Z	-0.008	-0.008	0	%100
31	M33	Z	-0.003	-0.003	0	%100
32	M34	Z	-0.003	-0.003	0	%100
33	M35	Z	-0.003	-0.003	0	%100
34	M36	Z	-0.003	-0.003	0	%100
35	M37	Z	-0.003	-0.003	0	%100
36	M38	Z	-0.003	-0.003	0	%100
37	M39	Z	-0.003	-0.003	0	%100
38	M40	Z	-0.003	-0.003	0	%100
39	M41	Z	-0.005	-0.005	0	%100



Company : MasTec Network Solutions
 Designer : RSC
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Member Distributed Loads (BLC 22 : Ice Wind Members (30 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
40	M42	Z	-.005	-.005	0	%100
41	M43	Z	-.005	-.005	0	%100
42	M44	Z	-.005	-.005	0	%100
43	M45	Z	-.005	-.005	0	%100
44	M46	Z	-.005	-.005	0	%100
45	M47	Z	-.005	-.005	0	%100
46	M48	Z	-.005	-.005	0	%100
47	M49	Z	0	0	0	%100
48	M50	Z	0	0	0	%100
49	M51	Z	0	0	0	%100
50	M52	Z	0	0	0	%100
51	M53	Z	0	0	0	%100
52	M54	Z	0	0	0	%100
53	M55	Z	0	0	0	%100
54	M56	Z	0	0	0	%100
55	A2	Z	-.002	-.002	%77.1	%100
56	A1	Z	-.002	-.002	%74.3	%100
57	B1	Z	-.002	-.002	%74.3	%100
58	B2	Z	-.002	-.002	%77.1	%100
59	M27	Z	-.008	-.008	%21.1	%100
60	M28	Z	-.008	-.008	%21.1	%100
61	A3	X	.001	.001	0	%100
62	A2	X	.001	.001	0	%100
63	A1	X	.001	.001	0	%100
64	B1	X	.001	.001	0	%100
65	B2	X	.001	.001	0	%100
66	B3	X	.001	.001	0	%100
67	M7	X	0	0	0	%100
68	M8	X	0	0	0	%100
69	M9	X	0	0	0	%100
70	M10	X	0	0	0	%100
71	M11	X	0	0	0	%100
72	M12	X	0	0	0	%100
73	M13	X	0	0	0	%100
74	M14	X	0	0	0	%100
75	M15	X	0	0	0	%100
76	M16	X	0	0	0	%100
77	M17	X	0	0	0	%100
78	M18	X	0	0	0	%100
79	M19	X	.001	.001	0	%100
80	M20	X	.001	.001	0	%100
81	M21	X	.001	.001	0	%100
82	M22	X	.001	.001	0	%100
83	M23	X	.001	.001	0	%100
84	M24	X	.001	.001	0	%100
85	M25	X	.001	.001	0	%100
86	M26	X	.001	.001	0	%100
87	M27	X	.005	.005	0	%100
88	M28	X	.005	.005	0	%100
89	M29	X	0	0	0	%100
90	M30	X	0	0	0	%100
91	M31	X	.005	.005	0	%100
92	M32	X	.005	.005	0	%100
93	M33	X	.002	.002	0	%100
94	M34	X	.002	.002	0	%100
95	M35	X	.002	.002	0	%100
96	M36	X	.002	.002	0	%100



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Member Distributed Loads (BLC 22 : Ice Wind Members (30 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
97	M37	X	.002	.002	0	%100
98	M38	X	.002	.002	0	%100
99	M39	X	.002	.002	0	%100
100	M40	X	.002	.002	0	%100
101	M41	X	.003	.003	0	%100
102	M42	X	.003	.003	0	%100
103	M43	X	.003	.003	0	%100
104	M44	X	.003	.003	0	%100
105	M45	X	.003	.003	0	%100
106	M46	X	.003	.003	0	%100
107	M47	X	.003	.003	0	%100
108	M48	X	.003	.003	0	%100
109	M49	X	0	0	0	%100
110	M50	X	0	0	0	%100
111	M51	X	0	0	0	%100
112	M52	X	0	0	0	%100
113	M53	X	0	0	0	%100
114	M54	X	0	0	0	%100
115	M55	X	0	0	0	%100
116	M56	X	0	0	0	%100

Member Distributed Loads (BLC 23 : Ice Wind Members (60 Deg))

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	A2	Z	-.001	-.001	0	%20.4
2	A1	Z	-.001	-.001	0	%25.7
3	B1	Z	-.001	-.001	0	%25.7
4	B2	Z	-.001	-.001	0	%20.4
5	M7	Z	0	0	0	%100
6	M8	Z	0	0	0	%100
7	M9	Z	0	0	0	%100
8	M10	Z	0	0	0	%100
9	M11	Z	0	0	0	%100
10	M12	Z	0	0	0	%100
11	M13	Z	0	0	0	%100
12	M14	Z	0	0	0	%100
13	M15	Z	0	0	0	%100
14	M16	Z	0	0	0	%100
15	M17	Z	0	0	0	%100
16	M18	Z	0	0	0	%100
17	M19	Z	-.001	-.001	0	%100
18	M20	Z	-.001	-.001	0	%100
19	M21	Z	-.001	-.001	0	%100
20	M22	Z	-.001	-.001	0	%100
21	M23	Z	-.002	-.002	0	%100
22	M24	Z	-.002	-.002	0	%100
23	M25	Z	-.002	-.002	0	%100
24	M26	Z	-.002	-.002	0	%100
25	M27	Z	-.005	-.005	0	%12.2
26	M28	Z	-.005	-.005	0	%12.2
27	M29	Z	-.001	-.001	0	%100
28	M30	Z	-.001	-.001	0	%100
29	M31	Z	-.005	-.005	0	%100
30	M32	Z	-.005	-.005	0	%100
31	M33	Z	-.002	-.002	0	%100
32	M34	Z	-.002	-.002	0	%100
33	M35	Z	-.002	-.002	0	%100



Company : MasTec Network Solutions
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Member Distributed Loads (BLC 23 : Ice Wind Members (60 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
34	M36	Z	-.002	-.002	0	%100
35	M37	Z	-.002	-.002	0	%100
36	M38	Z	-.002	-.002	0	%100
37	M39	Z	-.002	-.002	0	%100
38	M40	Z	-.002	-.002	0	%100
39	M41	Z	-.001	-.001	0	%100
40	M42	Z	-.001	-.001	0	%100
41	M43	Z	-.001	-.001	0	%100
42	M44	Z	-.001	-.001	0	%100
43	M45	Z	-.001	-.001	0	%100
44	M46	Z	-.001	-.001	0	%100
45	M47	Z	-.001	-.001	0	%100
46	M48	Z	-.001	-.001	0	%100
47	M49	Z	0	0	0	%100
48	M50	Z	0	0	0	%100
49	M51	Z	0	0	0	%100
50	M52	Z	0	0	0	%100
51	M53	Z	0	0	0	%100
52	M54	Z	0	0	0	%100
53	M55	Z	0	0	0	%100
54	M56	Z	0	0	0	%100
55	A2	Z	-.001	-.001	%77.1	%100
56	A1	Z	-.001	-.001	%74.3	%100
57	B1	Z	-.001	-.001	%74.3	%100
58	B2	Z	-.001	-.001	%77.1	%100
59	M27	Z	-.005	-.005	%21.1	%100
60	M28	Z	-.005	-.005	%21.1	%100
61	A3	X	.002	.002	0	%100
62	A2	X	.002	.002	0	%100
63	A1	X	.002	.002	0	%100
64	B1	X	.002	.002	0	%100
65	B2	X	.002	.002	0	%100
66	B3	X	.002	.002	0	%100
67	M7	X	0	0	0	%100
68	M8	X	0	0	0	%100
69	M9	X	0	0	0	%100
70	M10	X	0	0	0	%100
71	M11	X	0	0	0	%100
72	M12	X	0	0	0	%100
73	M13	X	0	0	0	%100
74	M14	X	0	0	0	%100
75	M15	X	0	0	0	%100
76	M16	X	0	0	0	%100
77	M17	X	0	0	0	%100
78	M18	X	0	0	0	%100
79	M19	X	.001	.001	0	%100
80	M20	X	.001	.001	0	%100
81	M21	X	.001	.001	0	%100
82	M22	X	.001	.001	0	%100
83	M23	X	.003	.003	0	%100
84	M24	X	.003	.003	0	%100
85	M25	X	.003	.003	0	%100
86	M26	X	.003	.003	0	%100
87	M27	X	.008	.008	0	%100
88	M28	X	.008	.008	0	%100
89	M29	X	.002	.002	0	%100
90	M30	X	.002	.002	0	%100



Member Distributed Loads (BLC 23 : Ice Wind Members (60 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
91	M31	X	.008	.008	0	%100
92	M32	X	.008	.008	0	%100
93	M33	X	.003	.003	0	%100
94	M34	X	.003	.003	0	%100
95	M35	X	.003	.003	0	%100
96	M36	X	.003	.003	0	%100
97	M37	X	.003	.003	0	%100
98	M38	X	.003	.003	0	%100
99	M39	X	.003	.003	0	%100
100	M40	X	.003	.003	0	%100
101	M41	X	.003	.003	0	%100
102	M42	X	.003	.003	0	%100
103	M43	X	.003	.003	0	%100
104	M44	X	.003	.003	0	%100
105	M45	X	.003	.003	0	%100
106	M46	X	.003	.003	0	%100
107	M47	X	.003	.003	0	%100
108	M48	X	.003	.003	0	%100
109	M49	X	0	0	0	%100
110	M50	X	0	0	0	%100
111	M51	X	0	0	0	%100
112	M52	X	0	0	0	%100
113	M53	X	0	0	0	%100
114	M54	X	0	0	0	%100
115	M55	X	0	0	0	%100
116	M56	X	0	0	0	%100

Member Distributed Loads (BLC 24 : Ice Wind Members (90 Deg))

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	A2	Z	0	0	0	%20.4
2	A1	Z	0	0	0	%25.7
3	B1	Z	0	0	0	%25.7
4	B2	Z	0	0	0	%20.4
5	M7	Z	0	0	0	%100
6	M8	Z	0	0	0	%100
7	M9	Z	0	0	0	%100
8	M10	Z	0	0	0	%100
9	M11	Z	0	0	0	%100
10	M12	Z	0	0	0	%100
11	M13	Z	0	0	0	%100
12	M14	Z	0	0	0	%100
13	M15	Z	0	0	0	%100
14	M16	Z	0	0	0	%100
15	M17	Z	0	0	0	%100
16	M18	Z	0	0	0	%100
17	M19	Z	0	0	0	%100
18	M20	Z	0	0	0	%100
19	M21	Z	0	0	0	%100
20	M22	Z	0	0	0	%100
21	M23	Z	0	0	0	%100
22	M24	Z	0	0	0	%100
23	M25	Z	0	0	0	%100
24	M26	Z	0	0	0	%100
25	M27	Z	0	0	0	%12.2
26	M28	Z	0	0	0	%12.2
27	M29	Z	0	0	0	%100



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Member Distributed Loads (BLC 24 : Ice Wind Members (90 Deg)) (Continued)

	Member Label	Direction	Start Magnitude(k/ft....)	End Magnitude(k/ft.F....)	Start Location(ft.%)	End Location(ft.%)
28	M30	Z	0	0	0	%100
29	M31	Z	0	0	0	%100
30	M32	Z	0	0	0	%100
31	M33	Z	0	0	0	%100
32	M34	Z	0	0	0	%100
33	M35	Z	0	0	0	%100
34	M36	Z	0	0	0	%100
35	M37	Z	0	0	0	%100
36	M38	Z	0	0	0	%100
37	M39	Z	0	0	0	%100
38	M40	Z	0	0	0	%100
39	M41	Z	0	0	0	%100
40	M42	Z	0	0	0	%100
41	M43	Z	0	0	0	%100
42	M44	Z	0	0	0	%100
43	M45	Z	0	0	0	%100
44	M46	Z	0	0	0	%100
45	M47	Z	0	0	0	%100
46	M48	Z	0	0	0	%100
47	M49	Z	0	0	0	%100
48	M50	Z	0	0	0	%100
49	M51	Z	0	0	0	%100
50	M52	Z	0	0	0	%100
51	M53	Z	0	0	0	%100
52	M54	Z	0	0	0	%100
53	M55	Z	0	0	0	%100
54	M56	Z	0	0	0	%100
55	A2	Z	0	0	%77.1	%100
56	A1	Z	0	0	%74.3	%100
57	B1	Z	0	0	%74.3	%100
58	B2	Z	0	0	%77.1	%100
59	M27	Z	0	0	%21.1	%100
60	M28	Z	0	0	%21.1	%100
61	A3	X	.002	.002	0	%100
62	A2	X	.002	.002	0	%100
63	A1	X	.002	.002	0	%100
64	B1	X	.002	.002	0	%100
65	B2	X	.002	.002	0	%100
66	B3	X	.002	.002	0	%100
67	M7	X	0	0	0	%100
68	M8	X	0	0	0	%100
69	M9	X	0	0	0	%100
70	M10	X	0	0	0	%100
71	M11	X	0	0	0	%100
72	M12	X	0	0	0	%100
73	M13	X	0	0	0	%100
74	M14	X	0	0	0	%100
75	M15	X	0	0	0	%100
76	M16	X	0	0	0	%100
77	M17	X	0	0	0	%100
78	M18	X	0	0	0	%100
79	M19	X	.001	.001	0	%100
80	M20	X	.001	.001	0	%100
81	M21	X	.001	.001	0	%100
82	M22	X	.001	.001	0	%100
83	M23	X	.004	.004	0	%100
84	M24	X	.004	.004	0	%100



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Member Distributed Loads (BLC 24 : Ice Wind Members (90 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
85	M25	X	.004	.004	0	%100
86	M26	X	.004	.004	0	%100
87	M27	X	.009	.009	0	%100
88	M28	X	.009	.009	0	%100
89	M29	X	.003	.003	0	%100
90	M30	X	.003	.003	0	%100
91	M31	X	.009	.009	0	%100
92	M32	X	.009	.009	0	%100
93	M33	X	.004	.004	0	%100
94	M34	X	.004	.004	0	%100
95	M35	X	.004	.004	0	%100
96	M36	X	.004	.004	0	%100
97	M37	X	.004	.004	0	%100
98	M38	X	.004	.004	0	%100
99	M39	X	.004	.004	0	%100
100	M40	X	.004	.004	0	%100
101	M41	X	.001	.001	0	%100
102	M42	X	.001	.001	0	%100
103	M43	X	.001	.001	0	%100
104	M44	X	.001	.001	0	%100
105	M45	X	.001	.001	0	%100
106	M46	X	.001	.001	0	%100
107	M47	X	.001	.001	0	%100
108	M48	X	.001	.001	0	%100
109	M49	X	0	0	0	%100
110	M50	X	0	0	0	%100
111	M51	X	0	0	0	%100
112	M52	X	0	0	0	%100
113	M53	X	0	0	0	%100
114	M54	X	0	0	0	%100
115	M55	X	0	0	0	%100
116	M56	X	0	0	0	%100

Member Distributed Loads (BLC 25 : Ice Wind Members (120 Deg))

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	A2	Z	.001	.001	0	%20.4
2	A1	Z	.001	.001	0	%25.7
3	B1	Z	.001	.001	0	%25.7
4	B2	Z	.001	.001	0	%20.4
5	M7	Z	0	0	0	%100
6	M8	Z	0	0	0	%100
7	M9	Z	0	0	0	%100
8	M10	Z	0	0	0	%100
9	M11	Z	0	0	0	%100
10	M12	Z	0	0	0	%100
11	M13	Z	0	0	0	%100
12	M14	Z	0	0	0	%100
13	M15	Z	0	0	0	%100
14	M16	Z	0	0	0	%100
15	M17	Z	0	0	0	%100
16	M18	Z	0	0	0	%100
17	M19	Z	.001	.001	0	%100
18	M20	Z	.001	.001	0	%100
19	M21	Z	.001	.001	0	%100
20	M22	Z	.001	.001	0	%100
21	M23	Z	.002	.002	0	%100



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Member Distributed Loads (BLC 25 : Ice Wind Members (120 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
22	M24	Z	.002	.002	0	%100
23	M25	Z	.002	.002	0	%100
24	M26	Z	.002	.002	0	%100
25	M27	Z	.005	.005	0	%12.2
26	M28	Z	.005	.005	0	%12.2
27	M29	Z	.001	.001	0	%100
28	M30	Z	.001	.001	0	%100
29	M31	Z	.005	.005	0	%100
30	M32	Z	.005	.005	0	%100
31	M33	Z	.002	.002	0	%100
32	M34	Z	.002	.002	0	%100
33	M35	Z	.002	.002	0	%100
34	M36	Z	.002	.002	0	%100
35	M37	Z	.002	.002	0	%100
36	M38	Z	.002	.002	0	%100
37	M39	Z	.002	.002	0	%100
38	M40	Z	.002	.002	0	%100
39	M41	Z	.001	.001	0	%100
40	M42	Z	.001	.001	0	%100
41	M43	Z	.001	.001	0	%100
42	M44	Z	.001	.001	0	%100
43	M45	Z	.001	.001	0	%100
44	M46	Z	.001	.001	0	%100
45	M47	Z	.001	.001	0	%100
46	M48	Z	.001	.001	0	%100
47	M49	Z	0	0	0	%100
48	M50	Z	0	0	0	%100
49	M51	Z	0	0	0	%100
50	M52	Z	0	0	0	%100
51	M53	Z	0	0	0	%100
52	M54	Z	0	0	0	%100
53	M55	Z	0	0	0	%100
54	M56	Z	0	0	0	%100
55	A2	Z	.001	.001	%77.1	%100
56	A1	Z	.001	.001	%74.3	%100
57	B1	Z	.001	.001	%74.3	%100
58	B2	Z	.001	.001	%77.1	%100
59	M27	Z	.005	.005	%21.1	%100
60	M28	Z	.005	.005	%21.1	%100
61	A3	X	.002	.002	0	%100
62	A2	X	.002	.002	0	%100
63	A1	X	.002	.002	0	%100
64	B1	X	.002	.002	0	%100
65	B2	X	.002	.002	0	%100
66	B3	X	.002	.002	0	%100
67	M7	X	0	0	0	%100
68	M8	X	0	0	0	%100
69	M9	X	0	0	0	%100
70	M10	X	0	0	0	%100
71	M11	X	0	0	0	%100
72	M12	X	0	0	0	%100
73	M13	X	0	0	0	%100
74	M14	X	0	0	0	%100
75	M15	X	0	0	0	%100
76	M16	X	0	0	0	%100
77	M17	X	0	0	0	%100
78	M18	X	0	0	0	%100



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Member Distributed Loads (BLC 25 : Ice Wind Members (120 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
79	M19	X	.001	.001	0	%100
80	M20	X	.001	.001	0	%100
81	M21	X	.001	.001	0	%100
82	M22	X	.001	.001	0	%100
83	M23	X	.003	.003	0	%100
84	M24	X	.003	.003	0	%100
85	M25	X	.003	.003	0	%100
86	M26	X	.003	.003	0	%100
87	M27	X	.008	.008	0	%100
88	M28	X	.008	.008	0	%100
89	M29	X	.002	.002	0	%100
90	M30	X	.002	.002	0	%100
91	M31	X	.008	.008	0	%100
92	M32	X	.008	.008	0	%100
93	M33	X	.003	.003	0	%100
94	M34	X	.003	.003	0	%100
95	M35	X	.003	.003	0	%100
96	M36	X	.003	.003	0	%100
97	M37	X	.003	.003	0	%100
98	M38	X	.003	.003	0	%100
99	M39	X	.003	.003	0	%100
100	M40	X	.003	.003	0	%100
101	M41	X	.003	.003	0	%100
102	M42	X	.003	.003	0	%100
103	M43	X	.003	.003	0	%100
104	M44	X	.003	.003	0	%100
105	M45	X	.003	.003	0	%100
106	M46	X	.003	.003	0	%100
107	M47	X	.003	.003	0	%100
108	M48	X	.003	.003	0	%100
109	M49	X	0	0	0	%100
110	M50	X	0	0	0	%100
111	M51	X	0	0	0	%100
112	M52	X	0	0	0	%100
113	M53	X	0	0	0	%100
114	M54	X	0	0	0	%100
115	M55	X	0	0	0	%100
116	M56	X	0	0	0	%100

Member Distributed Loads (BLC 26 : Ice Wind Members (150 Deg))

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	A2	Z	.002	.002	0	%20.4
2	A1	Z	.002	.002	0	%25.7
3	B1	Z	.002	.002	0	%25.7
4	B2	Z	.002	.002	0	%20.4
5	M7	Z	0	0	0	%100
6	M8	Z	0	0	0	%100
7	M9	Z	0	0	0	%100
8	M10	Z	0	0	0	%100
9	M11	Z	0	0	0	%100
10	M12	Z	0	0	0	%100
11	M13	Z	0	0	0	%100
12	M14	Z	0	0	0	%100
13	M15	Z	0	0	0	%100
14	M16	Z	0	0	0	%100
15	M17	Z	0	0	0	%100



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Member Distributed Loads (BLC 26 : Ice Wind Members (150 Deg)) (Continued)

	Member Label	Direction	Start Magnitude(k/ft....)	End Magnitude(k/ft.F....)	Start Location(ft.%)	End Location(ft.%)
16	M18	Z	0	0	0	%100
17	M19	Z	.001	.001	0	%100
18	M20	Z	.001	.001	0	%100
19	M21	Z	.001	.001	0	%100
20	M22	Z	.001	.001	0	%100
21	M23	Z	.001	.001	0	%100
22	M24	Z	.001	.001	0	%100
23	M25	Z	.001	.001	0	%100
24	M26	Z	.001	.001	0	%100
25	M27	Z	.008	.008	0	%12.2
26	M28	Z	.008	.008	0	%12.2
27	M29	Z	.001	.001	0	%100
28	M30	Z	.001	.001	0	%100
29	M31	Z	.008	.008	0	%100
30	M32	Z	.008	.008	0	%100
31	M33	Z	.003	.003	0	%100
32	M34	Z	.003	.003	0	%100
33	M35	Z	.003	.003	0	%100
34	M36	Z	.003	.003	0	%100
35	M37	Z	.003	.003	0	%100
36	M38	Z	.003	.003	0	%100
37	M39	Z	.003	.003	0	%100
38	M40	Z	.003	.003	0	%100
39	M41	Z	.005	.005	0	%100
40	M42	Z	.005	.005	0	%100
41	M43	Z	.005	.005	0	%100
42	M44	Z	.005	.005	0	%100
43	M45	Z	.005	.005	0	%100
44	M46	Z	.005	.005	0	%100
45	M47	Z	.005	.005	0	%100
46	M48	Z	.005	.005	0	%100
47	M49	Z	0	0	0	%100
48	M50	Z	0	0	0	%100
49	M51	Z	0	0	0	%100
50	M52	Z	0	0	0	%100
51	M53	Z	0	0	0	%100
52	M54	Z	0	0	0	%100
53	M55	Z	0	0	0	%100
54	M56	Z	0	0	0	%100
55	A2	Z	.002	.002	%77.1	%100
56	A1	Z	.002	.002	%74.3	%100
57	B1	Z	.002	.002	%74.3	%100
58	B2	Z	.002	.002	%77.1	%100
59	M27	Z	.008	.008	%21.1	%100
60	M28	Z	.008	.008	%21.1	%100
61	A3	X	.001	.001	0	%100
62	A2	X	.001	.001	0	%100
63	A1	X	.001	.001	0	%100
64	B1	X	.001	.001	0	%100
65	B2	X	.001	.001	0	%100
66	B3	X	.001	.001	0	%100
67	M7	X	0	0	0	%100
68	M8	X	0	0	0	%100
69	M9	X	0	0	0	%100
70	M10	X	0	0	0	%100
71	M11	X	0	0	0	%100
72	M12	X	0	0	0	%100



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Member Distributed Loads (BLC 26 : Ice Wind Members (150 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
73	M13	X	0	0	0	%100
74	M14	X	0	0	0	%100
75	M15	X	0	0	0	%100
76	M16	X	0	0	0	%100
77	M17	X	0	0	0	%100
78	M18	X	0	0	0	%100
79	M19	X	.001	.001	0	%100
80	M20	X	.001	.001	0	%100
81	M21	X	.001	.001	0	%100
82	M22	X	.001	.001	0	%100
83	M23	X	.001	.001	0	%100
84	M24	X	.001	.001	0	%100
85	M25	X	.001	.001	0	%100
86	M26	X	.001	.001	0	%100
87	M27	X	.005	.005	0	%100
88	M28	X	.005	.005	0	%100
89	M29	X	0	0	0	%100
90	M30	X	0	0	0	%100
91	M31	X	.005	.005	0	%100
92	M32	X	.005	.005	0	%100
93	M33	X	.002	.002	0	%100
94	M34	X	.002	.002	0	%100
95	M35	X	.002	.002	0	%100
96	M36	X	.002	.002	0	%100
97	M37	X	.002	.002	0	%100
98	M38	X	.002	.002	0	%100
99	M39	X	.002	.002	0	%100
100	M40	X	.002	.002	0	%100
101	M41	X	.003	.003	0	%100
102	M42	X	.003	.003	0	%100
103	M43	X	.003	.003	0	%100
104	M44	X	.003	.003	0	%100
105	M45	X	.003	.003	0	%100
106	M46	X	.003	.003	0	%100
107	M47	X	.003	.003	0	%100
108	M48	X	.003	.003	0	%100
109	M49	X	0	0	0	%100
110	M50	X	0	0	0	%100
111	M51	X	0	0	0	%100
112	M52	X	0	0	0	%100
113	M53	X	0	0	0	%100
114	M54	X	0	0	0	%100
115	M55	X	0	0	0	%100
116	M56	X	0	0	0	%100

Member Area Loads

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

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distrib...	Area(Me...	Surface(...
1	Dead	None		-1			12			
2	Ice Dead	None					12	56		
3	Full Wind Antenna (0 Deg)	None					14			



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Basic Load Cases (Continued)

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distrib...	Area(Me...	Surfacel...
4 Full Wind Antenna (30 Deg)	None					30			
5 Full Wind Antenna (60 Deg)	None					30			
6 Full Wind Antenna (90 Deg)	None					29			
7 Full Wind Antenna (120 Deg)	None					30			
8 Full Wind Antenna (150 Deg)	None					30			
9 Full Wind Members (0 Deg)	None						76		
10 Full Wind Members (30 Deg)	None						76		
11 Full Wind Members (60 Deg)	None						76		
12 Full Wind Members (90 Deg)	None						76		
13 Full Wind Members (120 Deg)	None						76		
14 Full Wind Members (150 Deg)	None						76		
15 Ice Wind Antenna (0 Deg)	None					14			
16 Ice Wind Antenna (30 Deg)	None					30			
17 Ice Wind Antenna (60 Deg)	None					30			
18 Ice Wind Antenna (90 Deg)	None					29			
19 Ice Wind Antenna (120 Deg)	None					30			
20 Ice Wind Antenna (150 Deg)	None					30			
21 Ice Wind Members (0 Deg)	None						116		
22 Ice Wind Members (30 Deg)	None						116		
23 Ice Wind Members (60 Deg)	None						116		
24 Ice Wind Members (90 Deg)	None						116		
25 Ice Wind Members (120 Deg)	None						116		
26 Ice Wind Members (150 Deg)	None						116		
27 Seismic Antenna (0 Deg)	None					12			
28 Seismic Antenna (90 Deg)	None					12			
29 Seismic Members (0 Deg)	None		-0.042	-0.084					
30 Seismic Members (30 Deg)	None	.042	-0.042	-0.073					
31 Seismic Members (60 Deg)	None	.073	-0.042	-0.042					
32 Seismic Members (90 Deg)	None	.084	-0.042	-5.17e-18					
33 Seismic Members (120 Deg)	None	.073	-0.042	.042					
34 Seismic Members (150 Deg)	None	.042	-0.042	.073					
35 Seismic Members (180 Deg)	None	1.034e-17	-0.042	.084					
36 Seismic Members (210 Deg)	None	-0.042	-0.042	.073					
37 Seismic Members (240 Deg)	None	-0.073	-0.042	.042					
38 Seismic Members (270 Deg)	None	-0.084	-0.042	1.551e-17					
39 Seismic Members (300 Deg)	None	-0.073	-0.042	-0.042					
40 Seismic Members (330 Deg)	None	-0.042	-0.042	-0.073					
41 Seismic Vertical Antennas	None					12			
42 Man 1 (500 lbs)	None				1				
43 Man 2 (500 lbs)	None				1				
44 Man 3 (500 lbs)	None				1				
45 Man 4 (250 lbs)	None				1				
46 Man 5 (250 lbs)	None				1				
47 Man 6 (250 lbs)	None				1				

Load Combinations

Description	Solve	PDe...	SRSS	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
1 1.4D	Yes	Y		1	1.4														
2 1.2D + 1.0W 0°	Yes	Y		1	1.2	3	1	9	1										
3 1.2D + 1.0W 30°	Yes	Y		1	1.2	4	1	10	1										
4 1.2D + 1.0W 60°	Yes	Y		1	1.2	5	1	11	1										
5 1.2D + 1.0W 90°	Yes	Y		1	1.2	6	1	12	1										
6 1.2D + 1.0W 120°	Yes	Y		1	1.2	7	1	13	1										
7 1.2D + 1.0W 150°	Yes	Y		1	1.2	8	1	14	1										
8 1.2D + 1.0W 180°	Yes	Y		1	1.2	3	-1	9	-1										



Company : MasTec Network Solutions
 Designer : RSC
 Job Number : 46129-RSA1
 Model Name : 467170 - NAUGATUCK_4_CT

Sept 20, 2023
 12:29 PM
 Checked By: _____

Load Combinations (Continued)

Description	Solve	PDe	SRSS	B	Fa	B	Fa	B	Fa	B	Fa	B	Fa	B	Fa	B	Fa	B	Fa	B	Fa	
9 1.2D + 1.0W 210°	Yes	Y		1	1.2	4	-1	10	-1													
10 1.2D + 1.0W 240°	Yes	Y		1	1.2	5	-1	11	-1													
11 1.2D + 1.0W 270°	Yes	Y		1	1.2	6	-1	12	-1													
12 1.2D + 1.0W 300°	Yes	Y		1	1.2	7	-1	13	-1													
13 1.2D + 1.0W 330°	Yes	Y		1	1.2	8	-1	14	-1													
14 1.2D + 1.0Di + 1.0Wi 0°	Yes	Y		1	1.2	2	1	15	1	21	1											
15 1.2D + 1.0Di + 1.0Wi 30°	Yes	Y		1	1.2	2	1	16	1	22	1											
16 1.2D + 1.0Di + 1.0Wi 60°	Yes	Y		1	1.2	2	1	17	1	23	1											
17 1.2D + 1.0Di + 1.0Wi 90°	Yes	Y		1	1.2	2	1	18	1	24	1											
18 1.2D + 1.0Di + 1.0Wi 120°	Yes	Y		1	1.2	2	1	19	1	25	1											
19 1.2D + 1.0Di + 1.0Wi 150°	Yes	Y		1	1.2	2	1	20	1	26	1											
20 1.2D + 1.0Di + 1.0Wi 180°	Yes	Y		1	1.2	2	1	15	-1	21	-1											
21 1.2D + 1.0Di + 1.0Wi 210°	Yes	Y		1	1.2	2	1	16	-1	22	-1											
22 1.2D + 1.0Di + 1.0Wi 240°	Yes	Y		1	1.2	2	1	17	-1	23	-1											
23 1.2D + 1.0Di + 1.0Wi 270°	Yes	Y		1	1.2	2	1	18	-1	24	-1											
24 1.2D + 1.0Di + 1.0Wi 300°	Yes	Y		1	1.2	2	1	19	-1	25	-1											
25 1.2D + 1.0Di + 1.0Wi 330°	Yes	Y		1	1.2	2	1	20	-1	26	-1											
26 1.2D + 1.5Lm 1 + 1.0W	Yes	Y		1	1.2	3	.067	9	.067	42	1.5											
27 1.2D + 1.5Lm 1 + 1.0W	Yes	Y		1	1.2	4	.067	10	.067	42	1.5											
28 1.2D + 1.5Lm 1 + 1.0W	Yes	Y		1	1.2	5	.067	11	.067	42	1.5											
29 1.2D + 1.5Lm 1 + 1.0W	Yes	Y		1	1.2	6	.067	12	.067	42	1.5											
30 1.2D + 1.5Lm 1 + 1.0W	Yes	Y		1	1.2	7	.067	13	.067	42	1.5											
31 1.2D + 1.5Lm 1 + 1.0W	Yes	Y		1	1.2	8	.067	14	.067	42	1.5											
32 1.2D + 1.5Lm 1 + 1.0W	Yes	Y		1	1.2	3	-0	9	-0	42	1.5											
33 1.2D + 1.5Lm 1 + 1.0W	Yes	Y		1	1.2	4	-0	10	-0	42	1.5											
34 1.2D + 1.5Lm 1 + 1.0W	Yes	Y		1	1.2	5	-0	11	-0	42	1.5											
35 1.2D + 1.5Lm 1 + 1.0W	Yes	Y		1	1.2	6	-0	12	-0	42	1.5											
36 1.2D + 1.5Lm 1 + 1.0W	Yes	Y		1	1.2	7	-0	13	-0	42	1.5											
37 1.2D + 1.5Lm 1 + 1.0W	Yes	Y		1	1.2	8	-0	14	-0	42	1.5											
38 1.2D + 1.5Lm 2 + 1.0W	Yes	Y		1	1.2	3	.067	9	.067	43	1.5											
39 1.2D + 1.5Lm 2 + 1.0W	Yes	Y		1	1.2	4	.067	10	.067	43	1.5											
40 1.2D + 1.5Lm 2 + 1.0W	Yes	Y		1	1.2	5	.067	11	.067	43	1.5											
41 1.2D + 1.5Lm 2 + 1.0W	Yes	Y		1	1.2	6	.067	12	.067	43	1.5											
42 1.2D + 1.5Lm 2 + 1.0W	Yes	Y		1	1.2	7	.067	13	.067	43	1.5											
43 1.2D + 1.5Lm 2 + 1.0W	Yes	Y		1	1.2	8	.067	14	.067	43	1.5											
44 1.2D + 1.5Lm 2 + 1.0W	Yes	Y		1	1.2	3	-0	9	-0	43	1.5											
45 1.2D + 1.5Lm 2 + 1.0W	Yes	Y		1	1.2	4	-0	10	-0	43	1.5											
46 1.2D + 1.5Lm 2 + 1.0W	Yes	Y		1	1.2	5	-0	11	-0	43	1.5											
47 1.2D + 1.5Lm 2 + 1.0W	Yes	Y		1	1.2	6	-0	12	-0	43	1.5											
48 1.2D + 1.5Lm 2 + 1.0W	Yes	Y		1	1.2	7	-0	13	-0	43	1.5											
49 1.2D + 1.5Lm 2 + 1.0W	Yes	Y		1	1.2	8	-0	14	-0	43	1.5											
50 1.2D + 1.5Lm 3 + 1.0W	Yes	Y		1	1.2	3	.067	9	.067	44	1.5											
51 1.2D + 1.5Lm 3 + 1.0W	Yes	Y		1	1.2	4	.067	10	.067	44	1.5											
52 1.2D + 1.5Lm 3 + 1.0W	Yes	Y		1	1.2	5	.067	11	.067	44	1.5											
53 1.2D + 1.5Lm 3 + 1.0W	Yes	Y		1	1.2	6	.067	12	.067	44	1.5											
54 1.2D + 1.5Lm 3 + 1.0W	Yes	Y		1	1.2	7	.067	13	.067	44	1.5											
55 1.2D + 1.5Lm 3 + 1.0W	Yes	Y		1	1.2	8	.067	14	.067	44	1.5											
56 1.2D + 1.5Lm 3 + 1.0W	Yes	Y		1	1.2	3	-0	9	-0	44	1.5											
57 1.2D + 1.5Lm 3 + 1.0W	Yes	Y		1	1.2	4	-0	10	-0	44	1.5											
58 1.2D + 1.5Lm 3 + 1.0W	Yes	Y		1	1.2	5	-0	11	-0	44	1.5											
59 1.2D + 1.5Lm 3 + 1.0W	Yes	Y		1	1.2	6	-0	12	-0	44	1.5											
60 1.2D + 1.5Lm 3 + 1.0W	Yes	Y		1	1.2	7	-0	13	-0	44	1.5											
61 1.2D + 1.5Lm 3 + 1.0W	Yes	Y		1	1.2	8	-0	14	-0	44	1.5											
62 1.2D + 1.5Lv 1 0°	Yes	Y		1	1.2	45	1.5															
63 1.2D + 1.5Lv 1 30°	Yes	Y		1	1.2	45	1.5															
64 1.2D + 1.5Lv 1 60°	Yes	Y		1	1.2	45	1.5															
65 1.2D + 1.5Lv 1 90°	Yes	Y		1	1.2	45	1.5															



Load Combinations (Continued)

	Description	SolvePDe	SRSS	B	Fa	B	Fa	B	Fa	B	Fa	B	Fa	B	Fa	B	Fa	B	Fa	B	Fa	
66	1.2D + 1.5Lv 1 120°	Yes	Y		1	1.2	45	1.5														
67	1.2D + 1.5Lv 1 150°	Yes	Y		1	1.2	45	1.5														
68	1.2D + 1.5Lv 1 180°	Yes	Y		1	1.2	45	1.5														
69	1.2D + 1.5Lv 1 210°	Yes	Y		1	1.2	45	1.5														
70	1.2D + 1.5Lv 1 240°	Yes	Y		1	1.2	45	1.5														
71	1.2D + 1.5Lv 1 270°	Yes	Y		1	1.2	45	1.5														
72	1.2D + 1.5Lv 1 300°	Yes	Y		1	1.2	45	1.5														
73	1.2D + 1.5Lv 1 330°	Yes	Y		1	1.2	45	1.5														
74	1.2D + 1.5Lv 2 0°	Yes	Y		1	1.2	46	1.5														
75	1.2D + 1.5Lv 2 30°	Yes	Y		1	1.2	46	1.5														
76	1.2D + 1.5Lv 2 60°	Yes	Y		1	1.2	46	1.5														
77	1.2D + 1.5Lv 2 90°	Yes	Y		1	1.2	46	1.5														
78	1.2D + 1.5Lv 2 120°	Yes	Y		1	1.2	46	1.5														
79	1.2D + 1.5Lv 2 150°	Yes	Y		1	1.2	46	1.5														
80	1.2D + 1.5Lv 2 180°	Yes	Y		1	1.2	46	1.5														
81	1.2D + 1.5Lv 2 210°	Yes	Y		1	1.2	46	1.5														
82	1.2D + 1.5Lv 2 240°	Yes	Y		1	1.2	46	1.5														
83	1.2D + 1.5Lv 2 270°	Yes	Y		1	1.2	46	1.5														
84	1.2D + 1.5Lv 2 300°	Yes	Y		1	1.2	46	1.5														
85	1.2D + 1.5Lv 2 330°	Yes	Y		1	1.2	46	1.5														
86	1.2D + 1.5Lv 3 0°	Yes	Y		1	1.2	47	1.5														
87	1.2D + 1.5Lv 3 30°	Yes	Y		1	1.2	47	1.5														
88	1.2D + 1.5Lv 3 60°	Yes	Y		1	1.2	47	1.5														
89	1.2D + 1.5Lv 3 90°	Yes	Y		1	1.2	47	1.5														
90	1.2D + 1.5Lv 3 120°	Yes	Y		1	1.2	47	1.5														
91	1.2D + 1.5Lv 3 150°	Yes	Y		1	1.2	47	1.5														
92	1.2D + 1.5Lv 3 180°	Yes	Y		1	1.2	47	1.5														
93	1.2D + 1.5Lv 3 210°	Yes	Y		1	1.2	47	1.5														
94	1.2D + 1.5Lv 3 240°	Yes	Y		1	1.2	47	1.5														
95	1.2D + 1.5Lv 3 270°	Yes	Y		1	1.2	47	1.5														
96	1.2D + 1.5Lv 3 300°	Yes	Y		1	1.2	47	1.5														
97	1.2D + 1.5Lv 3 330°	Yes	Y		1	1.2	47	1.5														
98	1.2D + 1.0EV +1.0 EH 0°	Yes	Y		1	1.2	27	1	28		29	1	41	1								
99	1.2D + 1.0EV +1.0 EH 3°	Yes	Y		1	1.2	27	.866	28	.5	30	1	41	1								
100	1.2D + 1.0EV +1.0 EH 6°	Yes	Y		1	1.2	27	.5	28	.866	31	1	41	1								
101	1.2D + 1.0EV +1.0 EH 9°	Yes	Y		1	1.2	27		28	1	32	1	41	1								
102	1.2D + 1.0EV +1.0 EH 12°	Yes	Y		1	1.2	27	-.5	28	.866	33	1	41	1								
103	1.2D + 1.0EV +1.0 EH 15°	Yes	Y		1	1.2	27	-.866	28	.5	34	1	41	1								
104	1.2D + 1.0EV +1.0 EH 18°	Yes	Y		1	1.2	27	-1	28		35	1	41	1								
105	1.2D + 1.0EV +1.0 EH 21°	Yes	Y		1	1.2	27	-.866	28	-.5	36	1	41	1								
106	1.2D + 1.0EV +1.0 EH 24°	Yes	Y		1	1.2	27	-.5	28	-.866	37	1	41	1								
107	1.2D + 1.0EV +1.0 EH 27°	Yes	Y		1	1.2	27		28	-1	38	1	41	1								
108	1.2D + 1.0EV +1.0 EH 30°	Yes	Y		1	1.2	27	.5	28	-.866	39	1	41	1								
109	1.2D + 1.0EV +1.0 EH 33°	Yes	Y		1	1.2	27	.866	28	-.5	40	1	41	1								

Envelope Joint Reactions

Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC	
1	N3	max	2.45	11	15.191	7	.706	2	1.24	2	.037	7	.559	5
2		min	-2.459	5	-12.624	13	-.702	8	-1.266	8	-.039	2	-.566	11
3	N2	max	2.428	11	15.25	3	.722	2	1.29	2	.056	9	.552	5
4		min	-2.427	5	-12.695	9	-.726	8	-1.26	8	-.061	3	-.562	11
5	N92A	max	5.329	5	8.774	6	.263	2	.479	2	.21	8	3.203	6
6		min	-5.163	11	-7.765	12	-.27	8	-.502	8	-.213	2	-2.714	12
7	N93A	max	5.254	5	8.715	4	.272	2	.505	2	.25	9	3.198	4
8		min	-5.111	11	-7.727	10	-.265	8	-.48	8	-.266	3	-2.712	10



Envelope Joint Reactions (Continued)

Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC	
9	N94	max	5.848	11	27.603	9	2.274	2	4.736	2	1.381	7	19.096	7
10		min	-5.992	5	-23.928	3	-2.201	8	-4.68	8	-1.439	2	-16.368	13
11	N95	max	5.884	11	27.52	13	2.199	2	4.733	2	1.56	8	19.125	3
12		min	-6.041	5	-23.815	7	-2.274	8	-4.783	8	-1.538	3	-16.418	9
13	Totals:	max	6.336	11	10.542	17	6.438	2						
14		min	-6.336	5	7.595	11	-6.438	8						

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

Member	Shape	Code C...	Loc(ft)	LC Shear...	Loc(ft)	Dir	LC phi*Pnc [k]	phi*Pnt [k]	phi*Mn y...	phi*Mn z...	Cb	Eqn		
1	A3	PIPE 2.0	.223	5.75	73	.056	3.75	73	20.867	32.13	1.872	1.872	4... H1-1b	
2	A2	PIPE 2.0	.170	5.75	73	.039	3.75	73	20.867	32.13	1.872	1.872	3... H1-1b	
3	A1	PIPE 2.0	.128	5.75	31	.031	3.75	27	20.867	32.13	1.872	1.872	3... H1-1b	
4	B1	PIPE 2.0	.108	5.75	85	.024	3.75	85	20.867	32.13	1.872	1.872	4... H1-1b	
5	B2	PIPE 2.0	.265	5.75	52	.064	3.75	55	20.867	32.13	1.872	1.872	3... H1-1b	
6	B3	PIPE 2.0	.308	3.75	53	.082	3.75	55	20.867	32.13	1.872	1.872	3... H1-1b	
7	M19	PIPE 2.5	.150	3.889	8	.075	3.889	2	38.388	50.715	3.596	3.596	1... H1-1b	
8	M20	PIPE 2.5	.150	3.889	46	.059	3.889	49	38.388	50.715	3.596	3.596	2... H1-1b	
9	M21	PIPE 2.5	.192	1.944	53	.076	1.944	2	38.388	50.715	3.596	3.596	1... H1-1b	
10	M22	PIPE 2.5	.226	1.944	53	.066	2.917	55	38.388	50.715	3.596	3.596	2... H1-1b	
11	M23	HSS6X6X4	.031	1.099	24	.022	0	z	73	216.472	216.936	38.64	38.64	1... H1-1b
12	M24	HSS6X6X4	.034	1.099	20	.027	1.099	y	46	216.472	216.936	38.64	38.64	1... H1-1b
13	M25	HSS6X6X4	.044	1.099	54	.035	1.099	z	53	216.472	216.936	38.64	38.64	1... H1-1b
14	M26	HSS6X6X4	.047	1.099	50	.039	0	z	53	216.472	216.936	38.64	38.64	1... H1-1b
15	M27	HSS12X4X8	.483	26.156	3	.050	21.094	z	8	75.967	558.9	72.105	161.115	2... H1-1a
16	M28	HSS12X4X8	.481	26.156	7	.049	21.094	z	8	75.967	558.9	72.105	161.115	2... H1-1a
17	M29	L4X4X4	.272	0	2	.028	0	y	2	47.934	62.532	3.138	6.715	2... H2-1
18	M30	L4X4X4	.753	0	2	.092	3	y	8	47.934	62.532	3.138	6.715	2... H2-1
19	M31	HSS12X4X8	.488	8.969	13	.047	8.969	z	2	125.578	558.9	72.105	161.115	2... H1-1a
20	M32	HSS12X4X8	.488	8.969	9	.052	8.969	z	8	125.578	558.9	72.105	161.115	2... H1-1a
21	M33	L4X4X4	.244	5.831	2	.011	0	y	8	40.57	62.532	3.138	6.682	2... H2-1
22	M34	L4X4X4	.231	5.831	8	.009	0	y	8	40.57	62.532	3.138	6.662	2... H2-1
23	M35	L4X4X4	.389	0	2	.015	0	y	8	40.57	62.532	3.138	6.709	2... H2-1
24	M36	L4X4X4	.361	0	8	.012	0	y	3	40.57	62.532	3.138	6.74	2... H2-1
25	M37	L4X4X4	.216	0	2	.008	0	y	7	40.57	62.532	3.138	6.665	2... H2-1
26	M38	L4X4X4	.205	0	8	.007	0	y	13	40.57	62.532	3.138	6.506	1... H2-1
27	M39	L4X4X4	.043	0	4	.004	0	z	5	40.57	62.532	3.138	6.715	2... H2-1
28	M40	L4X4X4	.044	0	5	.005	0	z	5	40.57	62.532	3.138	6.548	1... H2-1
29	M41	PL9x5/8	.118	1	6	.075	0	y	6	144.387	182.25	2.373	34.172	2... H1-1b
30	M42	PL9x5/8	.094	1	6	.053	0	y	6	144.387	182.25	2.373	34.172	2... H1-1b
31	M43	PL9x5/8	.092	1	4	.052	0	y	4	144.387	182.25	2.373	34.172	2... H1-1b
32	M44	PL9x5/8	.119	1	4	.076	0	y	4	144.387	182.25	2.373	34.172	2... H1-1b
33	M45	PL9x5/8	.669	1	9	.378	0	y	9	144.387	182.25	2.373	34.172	2... H1-1b
34	M46	PL9x5/8	.561	1	12	.156	0	y	12	144.387	182.25	2.373	34.172	1... H1-1b
35	M47	PL9x5/8	.566	1	10	.161	0	y	10	144.387	182.25	2.373	34.172	1... H1-1b
36	M48	PL9x5/8	.668	1	13	.378	0	y	13	144.387	182.25	2.373	34.172	2... H1-1b

APPENDIX 4: PREVIOUS ANALYSIS CONNECTION CALCULATIONS

Connection Details:

Bolt Dia, $D_{bolt} := 0.625 \text{ in}$

Quantity, $N := 6$ (Per Column) (Per Site Visit Pictures)

Area of Bolt, $A_{bolt} := \frac{\left(\pi \cdot \left(D_{bolt} - \left(\frac{0.9743 \text{ in}}{11}\right)\right)^2\right)}{4} = 0.226 \text{ in}^2$

Plate Size, $L_p := 10 \text{ in}$ $d_p := 18 \text{ in}$ $t_p := 0.625 \text{ in}$

Area of Plate, $A_g := L_p \cdot t_p = 6.25 \text{ in}^2$ $A_n := \left(L_p - \left(D_{bolt} + \frac{1}{8} \text{ in}\right)\right) \cdot t_p = 5.781 \text{ in}^2$

Max. Reactions:

Shear, $S_{bx} := 3.135 \text{ kip}$ $S_{bz} := 0.8 \text{ kip}$ (From Risa 3D)

Uplift, $T_b := 17 \text{ kip}$ (From Risa 3D)

Torsion, $M_x := 1.481 \text{ kip} \cdot \text{ft}$

Moment, $M_y := 0.075 \text{ kip} \cdot \text{ft}$

$M_z := 0.721 \text{ kip} \cdot \text{ft}$

Total Uplift, $T := \left(\frac{M_x}{7 \text{ in}}\right) + \left(\frac{M_x}{11 \text{ in}}\right) + \left(\frac{M_z}{7 \text{ in}}\right) + \left(\frac{M_y}{11 \text{ in}}\right) + T_b = 22.472 \text{ kip}$

Total Shear, $S := \sqrt{(S_{bx}^2 + S_{bz}^2)} = 3.235 \text{ kip}$

Tension/Bolt, $T_{bt} := \frac{T}{6} = 3.745 \text{ kip}$

Shear/Bolt, $S_{bt} := \frac{S}{6} = 0.539 \text{ kip}$

Capacity of Bolt:

(A36) $F_{yb} := 36 \text{ ksi}$ $F_{ub} := 58 \text{ ksi}$ (As per Framing Drawings by Jakeweld Corp., Dated 01/25/2017)

Tensile Strength, $P_{nt} := 0.75 \cdot (0.75 F_{ub}) \cdot A_{bolt} = 7.373 \text{ kip}$

$R_{sr} := \frac{T_{bt}}{P_{nt}} = 0.508$ (Adequate)

Shear Strength, $P_{ns} := 0.75 \cdot 0.625 \cdot (0.75 \cdot F_{ub}) \cdot A_{bolt} = 4.608 \text{ kip}$

$R_s := \frac{S_{bt}}{P_{ns}} = 0.117$ (Adequate)

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Capacity of Plate Member:

$$F_y := 36 \text{ ksi} \quad F_u := 58 \text{ ksi} \quad E_d := 1.5 \text{ in}$$

$$A_{nv} := \left(10 \text{ in} - \left(D_{bolt} + \frac{1}{8} \text{ in} \right) \right) \cdot t_p = 5.781 \text{ in}^2$$

$$A_{nt} := \left(1.5 \text{ in} - \left(D_{bolt} + \frac{1}{8} \text{ in} \right) \right) \cdot t_p = 0.469 \text{ in}^2 \quad A_{gv} := 10 \text{ in} \cdot t_p = 6.25 \text{ in}^2$$

$$M_p := T \cdot (d_p - 7 \text{ in}) = 20.6 \text{ kip} \cdot \text{ft}$$

Tensile Yielding.

$$R_n := 0.9 \cdot F_y \cdot A_g = 202.5 \text{ kip}$$

Tensile Rupture.

$$R_{nt} := 0.75 \cdot F_u \cdot A_n = 251.484 \text{ kip}$$

Block Shear.

$$R_b := 0.6 \cdot F_u \cdot A_{nv} + 1 \cdot F_u \cdot A_{nt} = 228.375 \text{ kip}$$

$$R_{b1} := 0.6 \cdot F_y \cdot A_{gv} + 1 \cdot F_u \cdot A_{nt} = 162.188 \text{ kip}$$

Bearing Strength at Bolt Hole.

$$R_{nb} := 0.75 \cdot 1.2 \cdot (E_d - (0.5 \cdot D_{bolt})) \cdot t_p \cdot F_u = 38.742 \text{ kip}$$

Flexural Strength.

$$t_i := 0.625 \text{ in} + 0.625 \text{ in} + 0.125 \text{ in}$$

$$Z := d_p \cdot \frac{t_i^2}{4} = 8.508 \text{ in}^3$$

$$F_{max} := \frac{M_p}{Z} = 29.055 \text{ ksi}$$

$$F_c := 0.9 \cdot F_y = 32.4 \text{ ksi}$$



Capacity, $S_r := \frac{F_{max}}{F_c} = 0.897$ (Adequate)

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September 14, 2023

MasTec Network Solutions
1151 SE Cary Pkwy Suite 101
Cary, NC 27518
Tel (919) 674-5895
MNS.Engineering@mastec.com

Subject: Mount Analysis

Carrier Designation: Carrier: Verizon
Site Name: Naugatuck 4 CT
Site Number: 467170

Engineering Firm Designation: MNS Project Number: 46129-RMA1

Site Data: 1247 New Haven Road,
Naugatuck, New Haven County, CT 06770
Latitude 41.467061°, Longitude -73.0198167°
18.5 ft Building with 51 ft Antenna Mast Tower
50.5 ft RAD Center

MasTec Network Solutions is pleased to submit this **Mount Analysis** to determine the structural integrity of the above-mentioned structure.

This analysis has been performed in compliance with the *2022 Connecticut State Building Code and the ANSI/TIA-222-H Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures*. Based on our analysis we have determined the structural strength to have the following result:

Antenna Mounting Structure **41%** **Sufficient**

We at MasTec Network Solutions appreciate the opportunity of providing continued specialty services. Please do not hesitate to contact our office should you have any questions.

Prepared By: Romaine Campbell

Reviewed By:

Raphael Mohamed, PE, Peng
Senior Director of Engineering
CT PE License No. 25112



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EXECUTIVE SUMMARY

The purpose of this analysis is to determine the acceptability of Verizon's proposed loading. Documents used for this analysis are stated in **Table 1**. This analysis has been performed in compliance with the applicable codes and parameters listed in **Table 2**.

Table 1: Referenced Documents

Company	Document Type	Reference	Date
Nexius	Mount Analysis	Job No. VZW467170A01-NX064	12/7/2021
MasTec	Construction Drawings	Location Code: 467170	9/5/2023
Kaelus	Datasheet	Document ID: BSF0020F3V1-1	5/13/2020

Table 2: Design Basis

Codes and Standards	
Local Building Code	2022 Connecticut State Building Code
TIA Standard	ANSI/TIA-222-H
Wind Parameters	
Ultimate Wind Speed	120 mph
Nominal Wind Speed with Ice	50 mph
Radial Ice Thickness	1 in
Operational Wind Speed	30 mph
Exposure Category	B
Risk Category	II
Topographic Category	1
Seismic Parameters	
S_s	0.198
S_1	0.054
Man Load	
Maintenance Load, L_m	500 lbs
Maintenance Load, L_v	250 lbs

Seismic effects have been considered in accordance with *Section 2.7 of TIA-222-H*.

Based on our analysis, we have determined the mounting components to be **adequate** to support the existing and proposed loading as described in **Table 3** of this analysis report.

To ensure the requirements of the applicable standards are met, we have the following recommendations:

Recommendations:

- 1) All bolts and hardware should be checked for tightness and condition prior to installing the proposed equipment.

CARRIER LOADING

The existing and proposed antenna equipment with corresponding mounts are shown below in **Table 3**. If the equipment listed below differs from actual field conditions, MasTec Network Solutions should be contacted to review the discrepancies.

Table 3: Appurtenance Loading

Final Carrier Loading:

Antenna Elevation (ft)	Qty	Description	Carrier	Mount Elevation (ft)	Mount Type	Notes
50.5	2	Samsung MT6407-77A with RRH	Verizon	50.5	(2) 5.8 ft Standoff Mounts	--
	4	Andrew SBNHH-1D65B				
	2	Samsung RF4439d-25A				
	2	Samsung RF4440d-13A				
	4	Kaelus BSF0020F3V1-1				
46.0	2	6C OVP Box		46.0	Antenna Mast	

ANALYSIS RESULTS

RISA-3D (V17.0.4), a commercially available software package for structural analysis, was used to create a three-dimensional model of the structure and calculate member stresses for various loading cases. Selected output from the analysis is included in **APPENDIX 3**. Please find below a summary of the structure analysis results.

Capacity percentages below 100% are considered acceptable for structure components.

Table 4: Mount Components

Structural Component	Capacity Percentage	Result	Notes
Mount Standoff	5%	Pass	1
Mount Horizontal	31%	Pass	1
Antenna Pipe	41%	Pass	1

1. Please see **APPENDIX 3** for calculation details

Table 5: Additional Structural Components

Component	Percentage	Result	Notes
Connection Bolts	4%	Pass	1
Connection Plate	19%	Pass	1

1. Please see **APPENDIX 2** for calculation details.

ASSUMPTIONS, LIMITATIONS AND DISCLAIMER

- 1) The mount was built in accordance with the designer's specifications and the mount has been maintained and is free of damage.
- 2) This Structural Analysis is not a condition assessment of the mount and is an evaluation of the theoretical structural capacity.
- 3) This analysis is based from the information supplied, and therefore, this report's results are as accurate as the supplied data.
- 4) MasTec Network Solutions makes no warranties, expressed and/or implied, in connection with this report, and disclaims any liability associated with material, fabrication, or erection of this tower. MasTec will not be held responsible from any consequential or incidental damages sustained by any person, firm, or organization as a result of the contents of this report. The maximum liability of MasTec pursuant to this report will be limited to the total fee received for compilation of this report.
- 5) It is the tower owner's responsibility to verify that the mount modeled and analyzed is the correct structure modeled.
- 6) The use of this report shall be limited to the purpose for which it was commissioned and may not be used for any other purposes without the written consent of MasTec Network Solutions.
- 7) The mount was properly fabricated and was constructed and has been maintained in accordance with manufacturer's specifications.
- 8) The connection from the tower to the mount is assumed to be adequate and in good condition.
- 9) Member connections are assumed to have been designed to meet or exceed the theoretical capacity of the connected member.
- 10) Steel grades have been assumed as follows:

Channel, Solid Round, Angle, Plate	ASTM A36 (GR 36)
HSS (Rectangular)	ASTM 500 (GR B-46)
HSS (Round)	ASTM 500 (GR B-42)
Pipe	ASTM A53 (GR 35)
Connection Bolts	ASTM A325
U-Bolts	SAE 429 Gr.2

APPENDIX 1: LOADING PARAMETERS

ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-16
Risk Category: II
Soil Class: D - Default (see Section 11.4.3)

Latitude: 41.467061
Longitude: -73.019817
Elevation: 327.22737015303403 ft (NAVD 88)



Wind

120 Vmph per 2022 Connecticut State Building Code.

Results:

Wind Speed	118 Vmph
10-year MRI	75 Vmph
25-year MRI	84 Vmph
50-year MRI	90 Vmph
100-year MRI	97 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed: Thu Sep 14 2023

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

Seismic

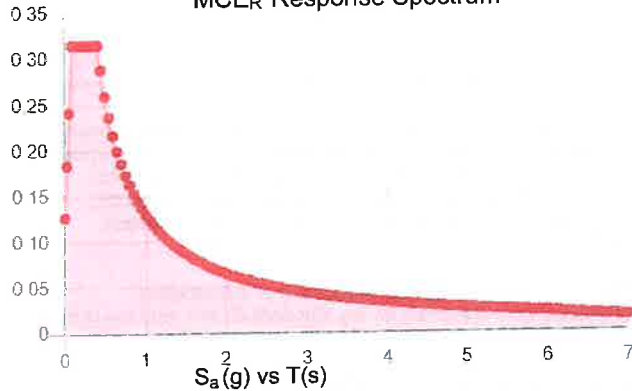
Site Soil Class:

Results:

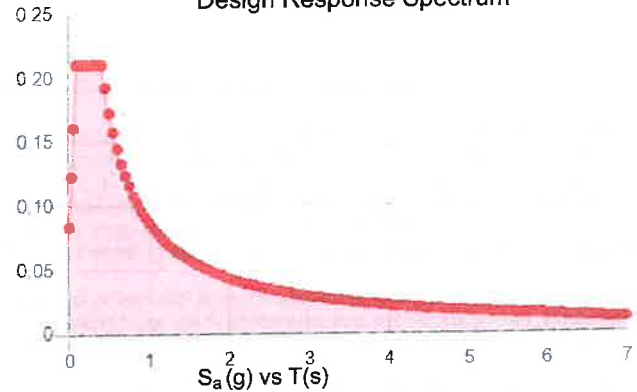
S_S :	0.198	S_{D1} :	0.087
S_1 :	0.054	T_L :	6
F_a :	1.6	PGA :	0.11
F_v :	2.4	PGA _M :	0.174
S_{MS} :	0.316	F_{PGA} :	1.58
S_{M1} :	0.13	I_e :	1
S_{DS} :	0.211	C_v :	0.7

Seismic Design Category: B

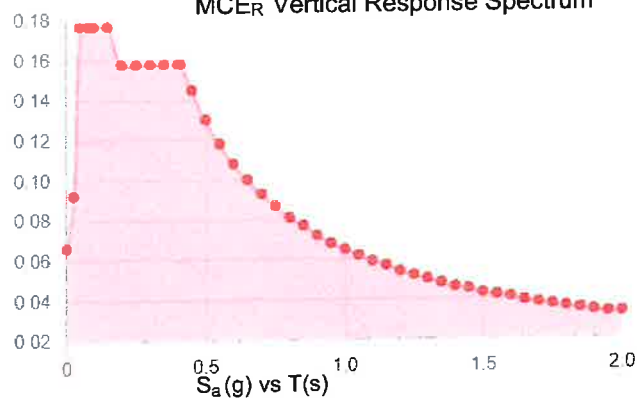
MCE_R Response Spectrum



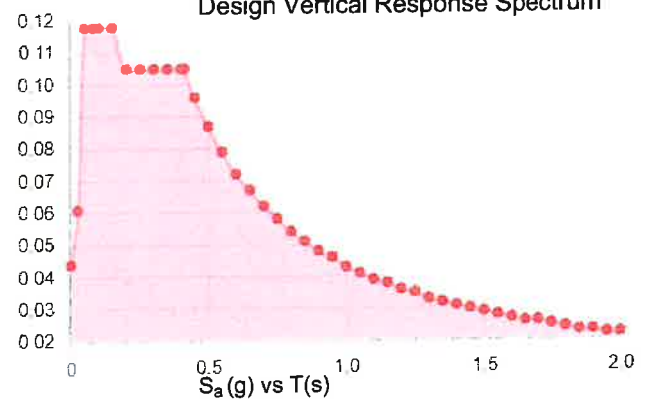
Design Response Spectrum



MCE_R Vertical Response Spectrum



Design Vertical Response Spectrum



Data Accessed:

Thu Sep 14 2023

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.



Ice

Results:

Ice Thickness: 1.00 in.
Concurrent Temperature: 15 F
Gust Speed 50 mph

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

Date Accessed: Thu Sep 14 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.

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 ¹		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 _r (g)	Risk Cat. III Occup. I-2	Risk Cat. IV	
Hampton	115	125	130	135	89	97	101	105	35	0.184	0.054		Yes	
Hartford	110	120	130	135	85	93	101	105	30	0.189	0.055		Yes	
Hartland	110	115	125	130	85	89	97	101	35	0.167	0.054			
Harwinton	110	120	125	130	85	93	97	101	35	0.177	0.054		Yes	
Hebron	115	125	130	135	89	97	101	105	30	0.200	0.055		Yes	
Kent	105	115	125	130	81	89	97	101	40	0.184	0.054			
Killingly	115	125	135	140	89	97	105	108	35	0.186	0.055		Yes	
Killingworth	115	125	135	140	89	97	105	108	30	0.210	0.055		Yes	
Lebanon	115	125	135	135	89	97	105	105	30	0.196	0.055		Yes	
Ledyard	120	130	140	140	93	101	108	108	30	0.190	0.053		Yes	
Lisbon	115	125	135	140	89	97	105	108	30	0.190	0.054		Yes	
Litchfield	110	115	125	130	85	89	97	101	35	0.178	0.054			
Lyme	115	125	135	140	89	97	105	108	30	0.207	0.054		Yes	
Madison	115	125	135	140	89	97	105	108	30	0.206	0.054	Type B	Yes	
Manchester	110	120	130	135	85	93	101	105	30	0.190	0.055		Yes	
Mansfield	110	120	130	135	85	93	101	105	35	0.186	0.055		Yes	
Marlborough	110	125	130	135	85	97	101	105	30	0.205	0.056		Yes	
Meriden	110	120	130	135	85	93	101	105	30	0.203	0.055		Yes	
Middlebury	110	120	130	130	85	93	101	101	35	0.194	0.054		Yes	
Middlefield	110	120	130	135	85	93	101	105	30	0.209	0.055		Yes	
Middletown	110	120	130	135	85	93	101	105	30	0.209	0.056		Yes	
Milford	110	120	130	135	85	93	101	105	30	0.202	0.053	Type B	Yes	
Monroe	110	120	130	135	85	93	101	105	30	0.208	0.055		Yes	
Montville	120	125	135	140	93	97	105	108	30	0.198	0.054		Yes	
Morris	110	115	125	130	85	89	97	101	35	0.182	0.054			
Naugatuck	110	120	130	135	85	93	101	105	30	0.197	0.054		Yes	
New Britain	110	120	130	135	85	93	101	105	30	0.195	0.055		Yes	
New Canaan	110	120	130	135	85	93	101	105	30	0.252	0.058		Yes	
New Fairfield	110	115	125	130	85	89	97	101	30	0.219	0.056			
New Hartford	110	115	125	130	85	89	97	101	35	0.172	0.054			
New Haven	110	125	130	135	85	97	101	105	30	0.201	0.054	Type B	Yes	
New London	120	130	140	140	93	101	108	108	30	0.191	0.053	Type B Type A	Yes Yes	

APPENDIX 2: LOADING CALCULATIONS

Pole Mount	Antenna	Elevation (ft)	Quantity	Orientation (deg)	Front Exposed (%)	Side Exposed (%)	Type	Height (ft)	Width (in)	Depth (in)	Weight (lbs)	Front Cx (ft)	Side Cx (ft)	Front Fx (ft)	Side Fx (ft)	Top %	Bottom %
MP1	Samsung MTS-07-77A	50.5	1	0	100.0%	100.0%	Antenna	35.080	16.050	5.510	81.570	4.492	1.540	0.113	0.044	25.7%	74.3%
MP1																	
MP1																	
MP1																	
MP2	Samsung RF4435H-25A	51.5	1	0	100.0%	100.0%	RRU, TMA, Etc.	18.660	14.980	10.040	74.700	2.328	1.661	0.059	0.038	20.4%	46.5%
MP2	Samsung RF4406-13A	49.5	1	0	100.0%	100.0%	RRU, TMA, Etc.	14.960	14.980	9.000	70.300	1.865	1.128	0.045	0.027	56.3%	77.1%
MP2																	
MP2																	
MP2																	
MP2																	
MP3	Andrew 580HH-1D56B	50.5	2	0	100.0%	100.0%	Antenna	72.800	11.900	7.100	81.200	8.200	5.424	0.395	0.281	0.0%	100.0%
MP3	Kaelus ESF0020EV1-1	50.5	2	90	0.0%	50.0%	RRU, TMA, Etc.	10.600	10.900	3.150	35.200	0.863	0.287	0.000	0.023	42.0%	57.4%
MP3																	
MP3																	
MP3																	

Member	Section Sht	Main Sct Length (ft)	Flat/Round	Wind Projection (ft)	D ₁ (in)	A ₀ (in ²)	C ₁	Front Wind (ft/lb)	Side Wind (ft/lb)	Front Ice Wind (kW)	Side Ice Wind (kW)	Ice Dead (kW)	Front Maint Wind (ft/lb)	Side Maint Wind (ft/lb)
M41	RIGID	0.21875	Flat	0.000	0.000	2.471	2.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
M42	RIGID	0.21875	Flat	0.000	0.000	2.471	2.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
M43	RIGID	0.21875	Flat	0.000	0.000	2.471	2.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
M44	RIGID	0.21875	Flat	0.000	0.000	2.471	2.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
M45	RIGID	0.21875	Flat	0.000	0.000	2.471	2.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
M46	RIGID	0.21875	Flat	0.000	0.000	2.471	2.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
MP3	Antenna Pipe	6	Round	2.380	2.380	9.103	1.700	0.006	0.006	0.002	0.002	0.004	0.000	0.000
MP2	Antenna Pipe	6	Round	2.380	2.380	9.103	1.700	0.006	0.006	0.002	0.002	0.004	0.000	0.000
MP1	Antenna Pipe	6	Round	2.380	2.380	9.103	1.700	0.006	0.006	0.002	0.002	0.004	0.000	0.000
M10	Mount Horizontal	5.833334	Round	2.880	2.880	10.995	1.300	0.007	0.007	0.002	0.001	0.004	0.000	0.000
M11	Mount Horizontal	5.833334	Round	2.880	2.880	10.995	1.300	0.007	0.007	0.002	0.001	0.004	0.000	0.000
M12	Mount Standoff	1.098958	Flat	6.000	8.485	26.115	2.000	0.000	0.000	0.000	0.004	0.010	0.000	0.002
M13	Mount Standoff	1.098958	Flat	6.000	8.485	26.115	2.000	0.000	0.000	0.000	0.004	0.010	0.000	0.002

MNS CONNECTION TOOL - RESULTS SUMMARY

Site Name: Naugatuck 4 CT
 Site Number: 467170
 MNS ENG. Number: 46129-RMA1
 Design Code: ANSI/TIA-222-H

Results Overview
 Bolted Connections: 3.7% PASS
 Bearing Plate Connections: 18.7% PASS

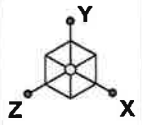
Bolted Connections:

Conn. No.	Joint Label	Bolt Group Properties & Geometry	Shear Capacity	Tension Capacity	Shear-Tension Interaction	Result
1	N32	(4) 0.75 in. MATERIAL: A325N HORIZ.= 15in. VERT.= 7in. SINGLE SHEAR AZIMUTH= 0°	Vu= 0.52k φVn= 17.89k Vu/(φVn)= 2.9%	Tu= 1.1k φTn= 29.82k Tu/(φTn)= 3.7%	$[Vu/(\phi Vn)]^2 + [Tu/(\phi Tn)]^2 = 0\%$	Shear: PASS Tension: PASS Interaction: PASS
2	N19	(4) 0.75 in. MATERIAL: A325N HORIZ.= 15in. VERT.= 7in. SINGLE SHEAR AZIMUTH= 0°	Vu= 0.52k φVn= 17.89k Vu/(φVn)= 2.9%	Tu= 1.05k φTn= 29.82k Tu/(φTn)= 3.5%	$[Vu/(\phi Vn)]^2 + [Tu/(\phi Tn)]^2 = 0\%$	Shear: PASS Tension: PASS Interaction: PASS

Bearing Plate Connections:

Conn. No.	Joint Label	Plate Properties & Geometry	Case 1 - Perpendicular Bending	Case 2 - Orthogonal Bending	Result
1	N32	HSS 5Q, Tube 6x6 PL8x18x0.625 Plate Fy = 36 ksi	fbu= 5.47 ksi φFn= 32.4 ksi fbu/(φFn)= 16.9%	fbu= 6.07 k-in φFn= 32.4 k-in fbu/(φFn)= 18.7%	Case 1: PASS Case 2: PASS
2	N19	HSS 5Q, Tube 6x6 PL8x18x0.625 Plate Fy = 36 ksi	fbu= 4.81 ksi φFn= 32.4 ksi fbu/(φFn)= 14.8%	fbu= 5.84 k-in φFn= 32.4 k-in fbu/(φFn)= 18%	Case 1: PASS Case 2: PASS

APPENDIX 3: RISA 3D OUTPUT



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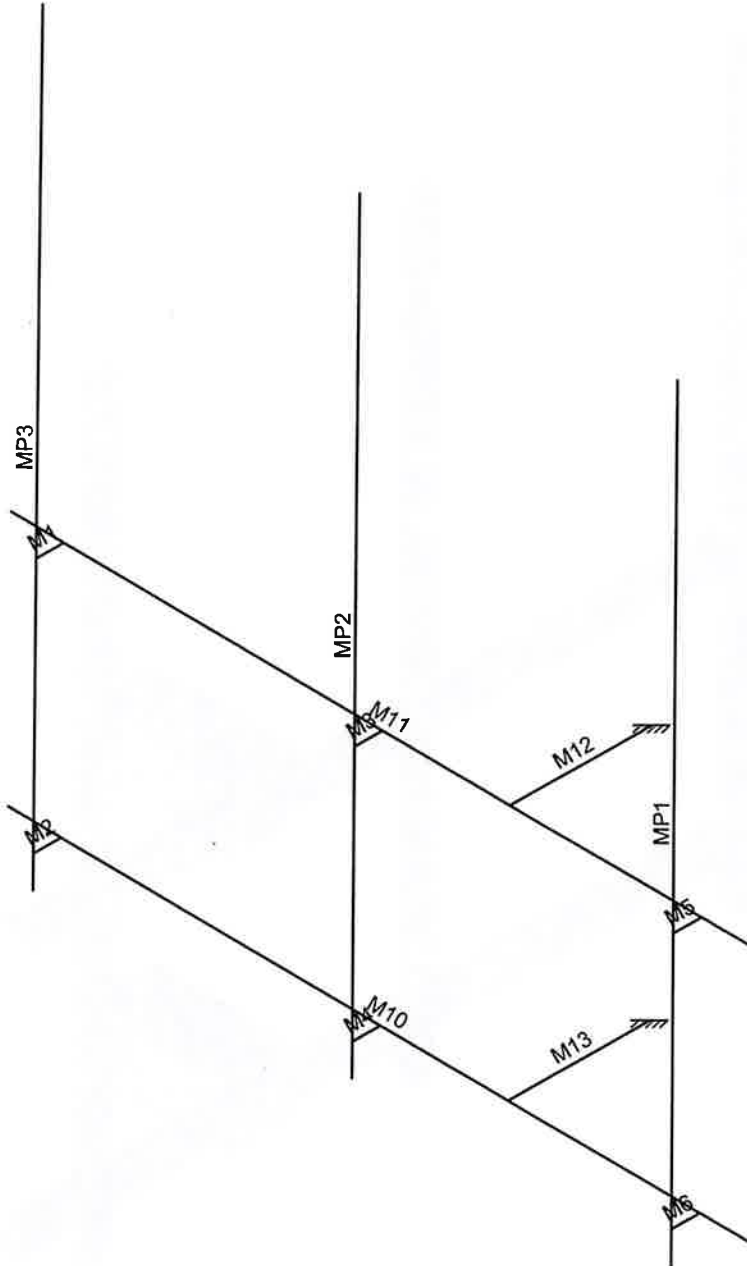
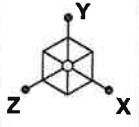
46129-RMA1

467170 - NAUGATUCK_4_CT

Rendered View

Sept 14, 2023 at 4:20 PM

46129-RMA1.r3d



MasTec Network Solutions

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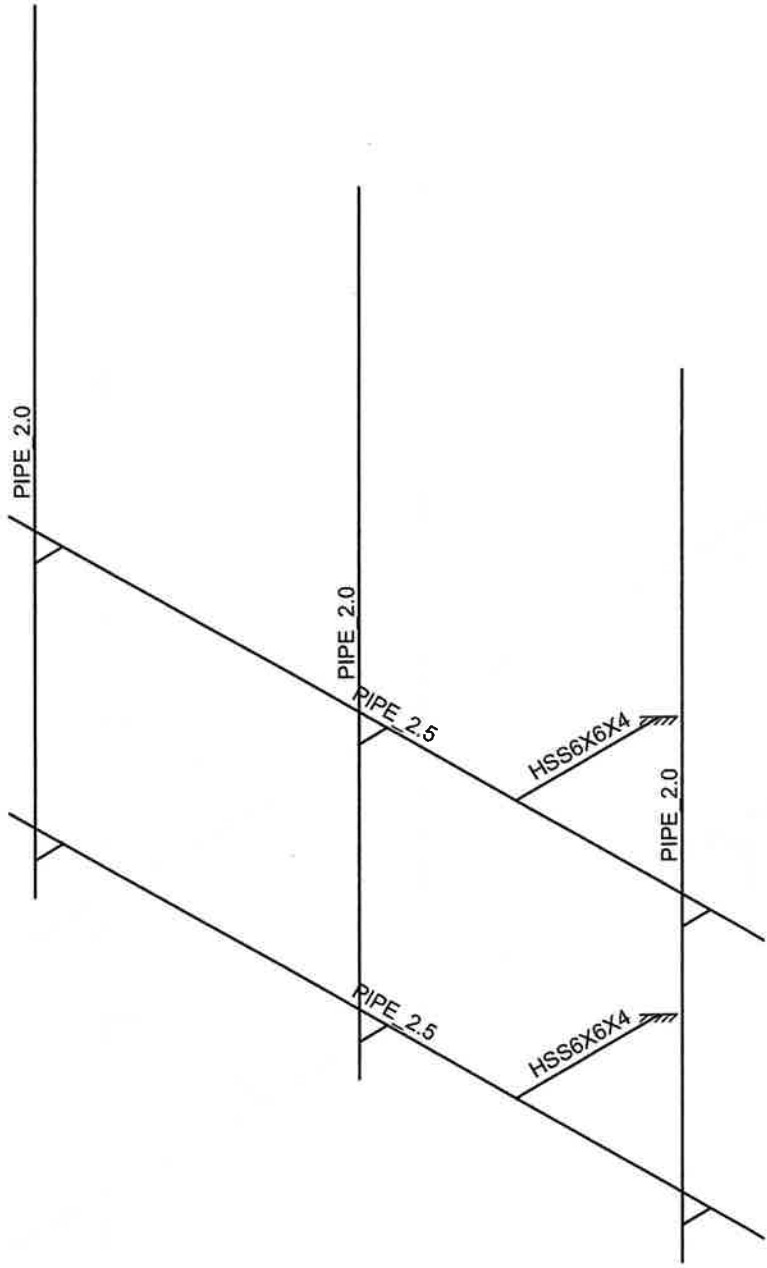
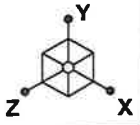
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Member Labels

Sept 14, 2023 at 4:19 PM

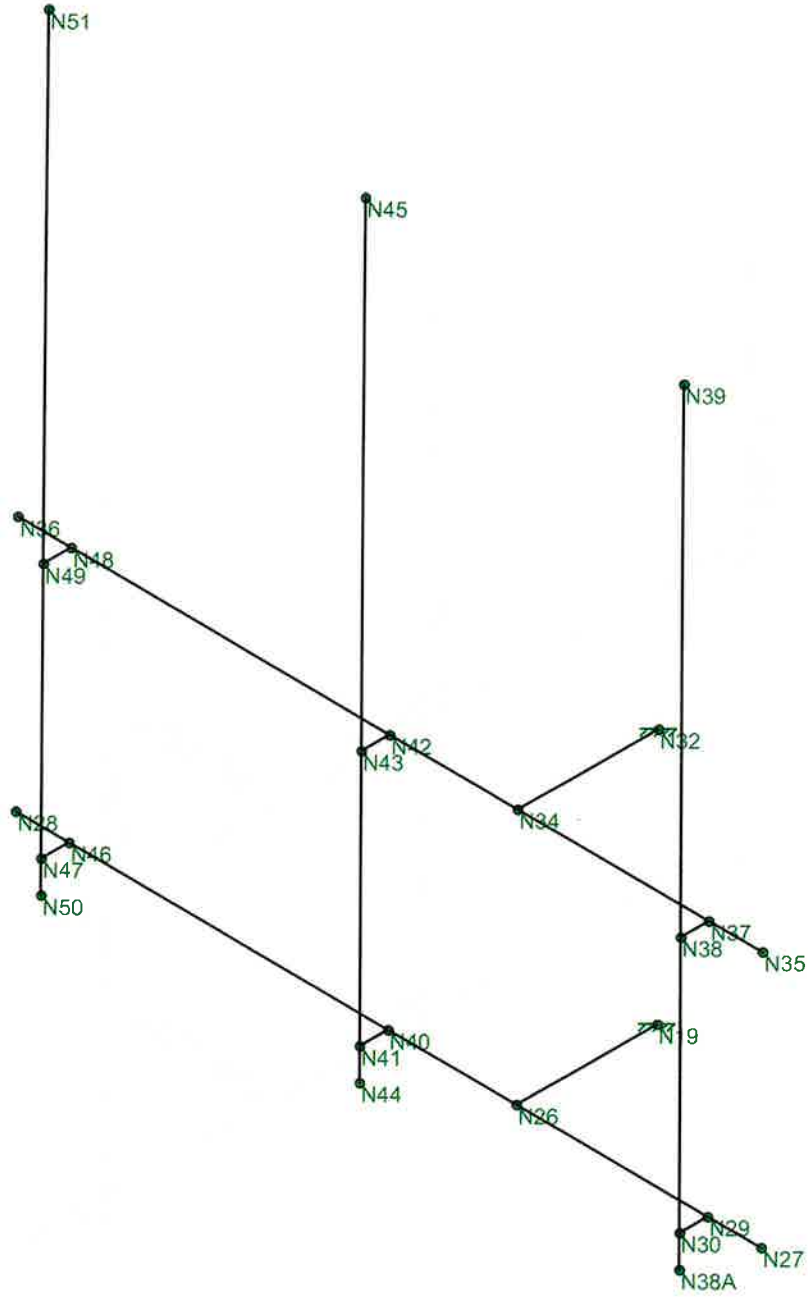
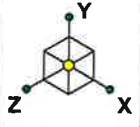
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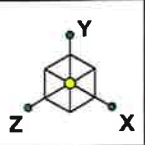
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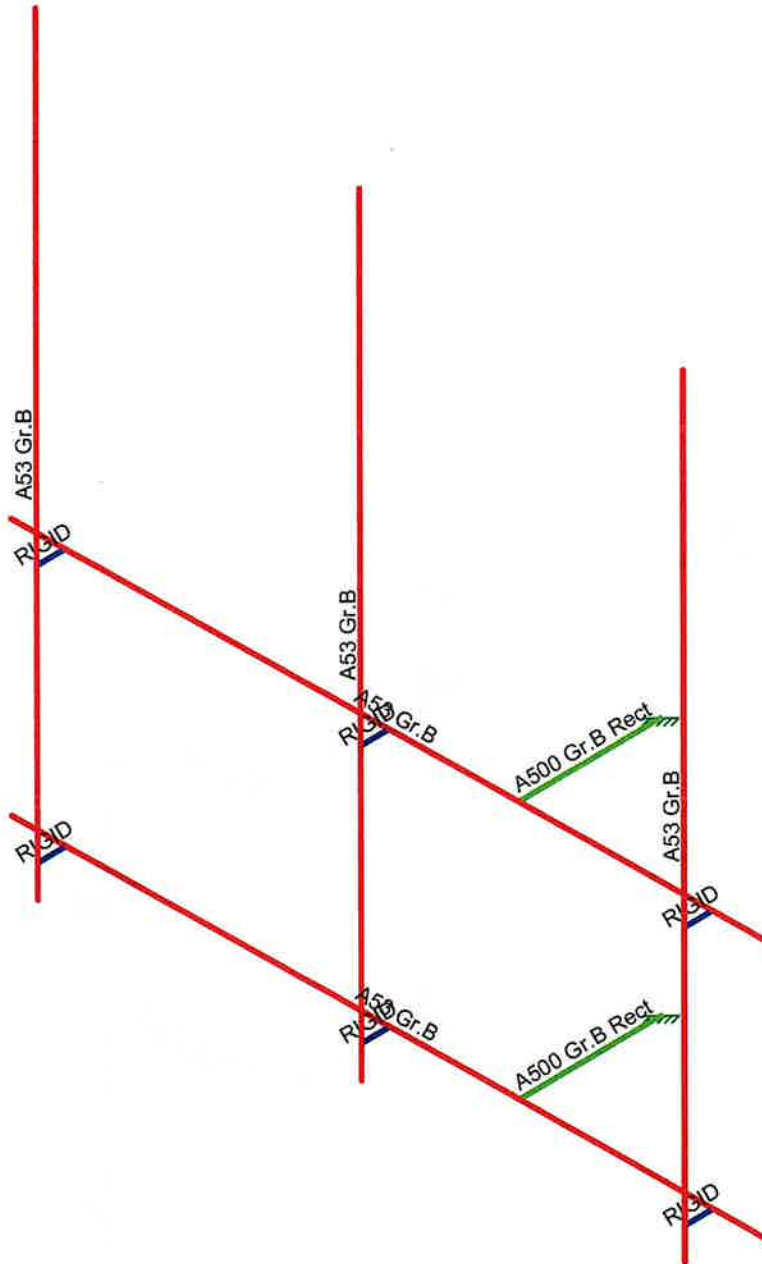
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Node Labels
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 46129-RMA1.r3d



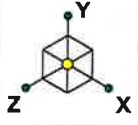
Material Sets	
	RIGID
	A500 Gr.B Rect
	A53 Gr.B



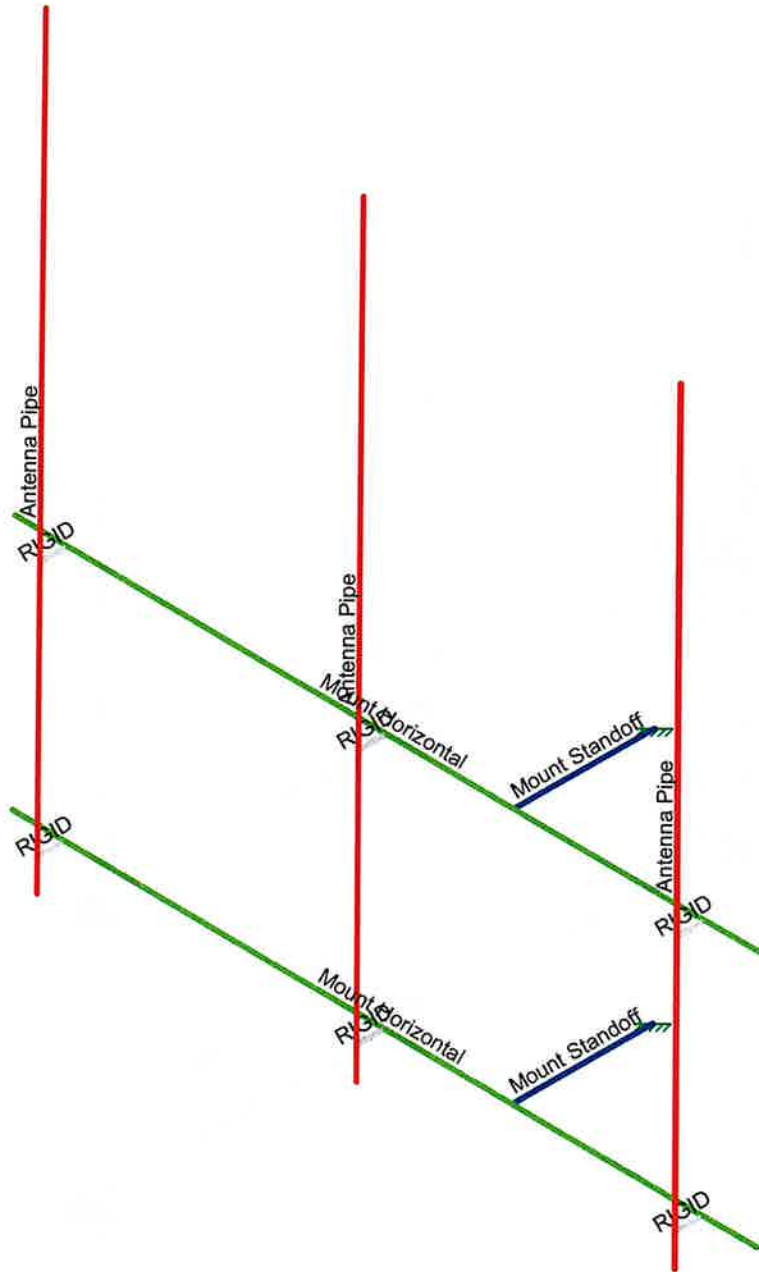
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Material Sets
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46129-RMA1.r3d



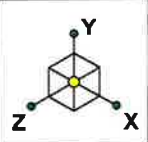
Section Sets	
	Mount Standoff
	Mount Horizontal
	Antenna Pipe
	RIGID



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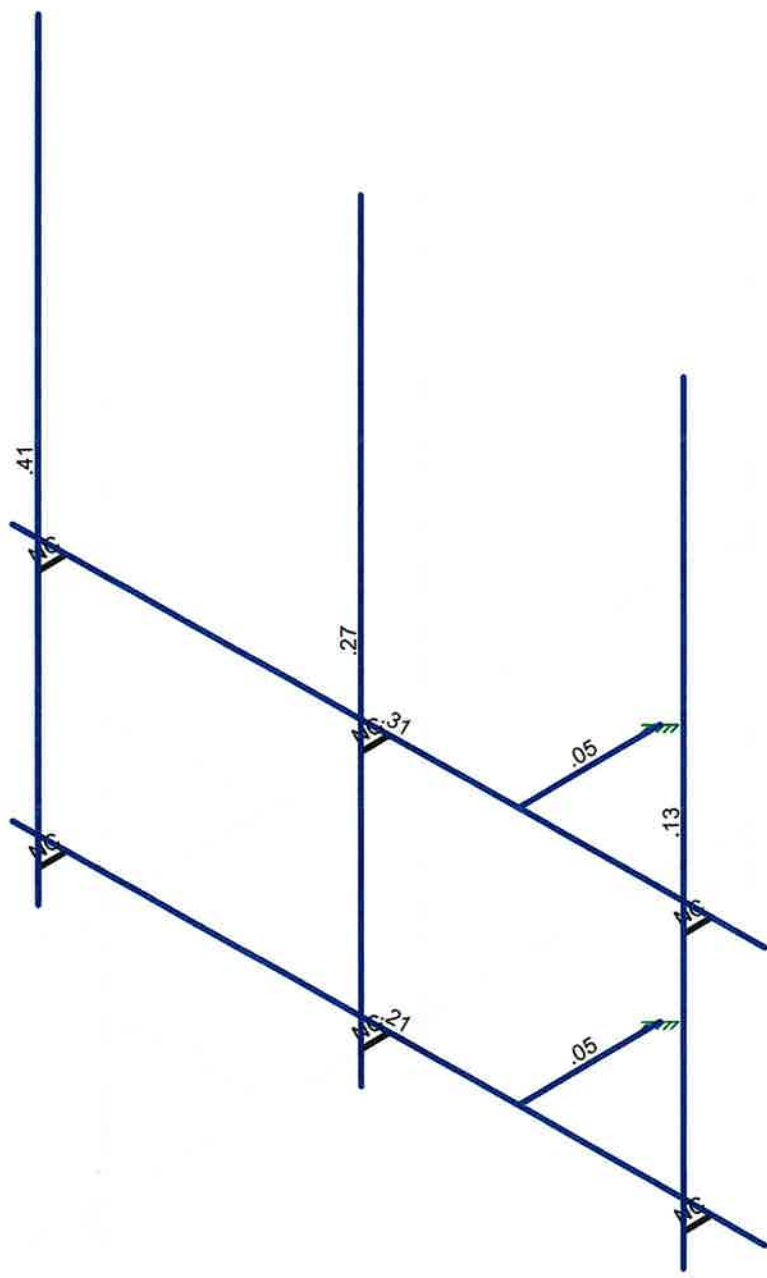
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Section Sets
Sept 14, 2023 at 4:19 PM
46129-RMA1.r3d



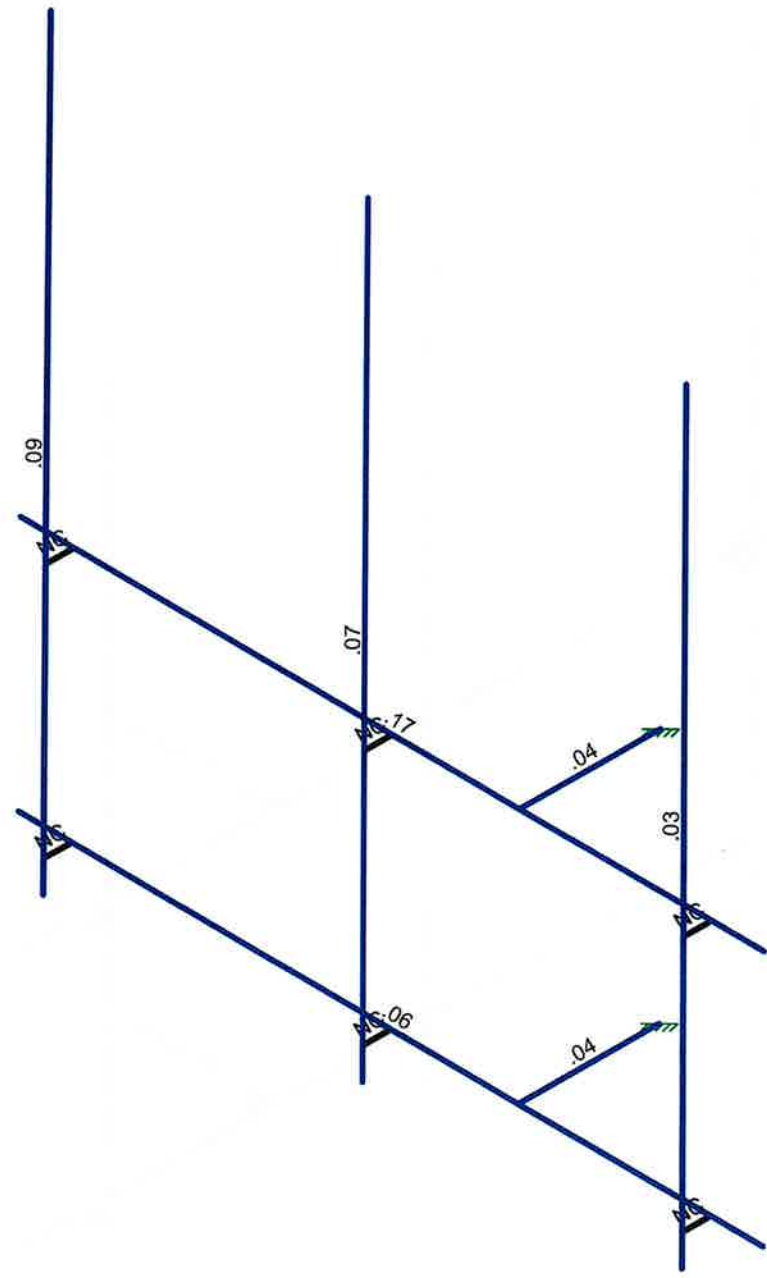
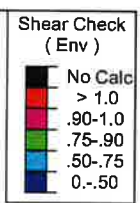
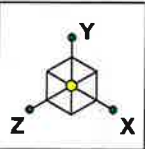
Code Check (Env)

Black	No Calc
Red	> 1.0
Pink	.90-1.0
Green	.75-.90
Blue	.50-.75
Dark Blue	0-.50



Member Code Checks Displayed (Enveloped)
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Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

MasTec Network Solutions	467170 - NAUGATUCK_4_CT	Shear Check
RSC		Sept 14, 2023 at 4:20 PM
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Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E...	Density[k/ft...	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	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65	.49	50	1.25	65	1.15
8	A913 Gr.65	29000	11154	.3	.65	.49	65	1.1	80	1.1
9	SAE J429 Gr.2	29000	11154	.3	.65	.49	57	1.1	74	1.1

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Mount Standoff	HSS6X6X4	Beam	Tube	A500 Gr.B Rect	Typical	5.24	28.6	28.6	45.6
2	Mount Horizontal	PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
3	Antenna Pipe	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diaphragm
1	N19	0	45.5	1.5	0	
2	N26	0	45.5	2.598958	0	
3	N27	1.916667	45.5	2.598958	0	
4	N28	-3.916667	45.5	2.598958	0	
5	N29	1.5	45.5	2.598958	0	
6	N30	1.5	45.5	2.817708	0	
7	N32	0	47.5	1.5	0	
8	N34	0	47.5	2.598958	0	
9	N35	1.916667	47.5	2.598958	0	
10	N36	-3.916667	47.5	2.598958	0	
11	N37	1.5	47.5	2.598958	0	
12	N38	1.5	47.5	2.817708	0	
13	N38A	1.5	45.25	2.817708	0	
14	N39	1.5	51.25	2.817708	0	
15	N40	-1	45.5	2.598958	0	
16	N41	-1	45.5	2.817708	0	
17	N42	-1	47.5	2.598958	0	
18	N43	-1	47.5	2.817708	0	
19	N44	-1	45.25	2.817708	0	
20	N45	-1	51.25	2.817708	0	
21	N46	-3.5	45.5	2.598958	0	
22	N47	-3.5	45.5	2.817708	0	
23	N48	-3.5	47.5	2.598958	0	
24	N49	-3.5	47.5	2.817708	0	
25	N50	-3.5	45.25	2.817708	0	
26	N51	-3.5	51.25	2.817708	0	

Joint Boundary Conditions

	Joint Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot [k-ft/rad]	Y Rot [k-ft/rad]	Z Rot [k-ft/rad]
1	N32	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
2	N19	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction



Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(...)	Section/Shape	Type	Design List	Material	Design R...
1	M1	N49	N48			RIGID	None	None	RIGID	Typical
2	M2	N47	N46			RIGID	None	None	RIGID	Typical
3	M3	N43	N42			RIGID	None	None	RIGID	Typical
4	M4	N41	N40			RIGID	None	None	RIGID	Typical
5	M5	N38	N37			RIGID	None	None	RIGID	Typical
6	M6	N30	N29			RIGID	None	None	RIGID	Typical
7	MP3	N51	N50			Antenna Pipe	Beam	Pipe	A53 Gr.B	Typical
8	MP2	N45	N44			Antenna Pipe	Beam	Pipe	A53 Gr.B	Typical
9	MP1	N39	N38A			Antenna Pipe	Beam	Pipe	A53 Gr.B	Typical
10	M10	N28	N27			Mount Horizontal	Beam	Pipe	A53 Gr.B	Typical
11	M11	N36	N35			Mount Horizontal	Beam	Pipe	A53 Gr.B	Typical
12	M12	N34	N32			Mount Standoff	Beam	Tube	A500 G...	Typical
13	M13	N26	N19			Mount Standoff	Beam	Tube	A500 G...	Typical

Joint Loads and Enforced Displacements (BLC 42 : Man 1 (500 lbs))

	Joint Label	L,D,M	Direction	Magnitude[(k.k-ft), (in.rad), (k*s^2/ft...)]
1	N29	L	Y	-.5

Joint Loads and Enforced Displacements (BLC 43 : Man 2 (500 lbs))

	Joint Label	L,D,M	Direction	Magnitude[(k.k-ft), (in.rad), (k*s^2/ft...)]
1	N40	L	Y	-.5

Joint Loads and Enforced Displacements (BLC 44 : Man 3 (500 lbs))

	Joint Label	L,D,M	Direction	Magnitude[(k.k-ft), (in.rad), (k*s^2/ft...)]
1	N46	L	Y	-.5

Joint Loads and Enforced Displacements (BLC 45 : Man 4 (250 lbs))

	Joint Label	L,D,M	Direction	Magnitude[(k.k-ft), (in.rad), (k*s^2/ft...)]
1	N28	L	Y	-.25

Joint Loads and Enforced Displacements (BLC 46 : Man 5 (250 lbs))

	Joint Label	L,D,M	Direction	Magnitude[(k.k-ft), (in.rad), (k*s^2/ft...)]
1	N27	L	Y	-.25

Joint Loads and Enforced Displacements (BLC 47 : Man 6 (250 lbs))

	Joint Label	L,D,M	Direction	Magnitude[(k.k-ft), (in.rad), (k*s^2/ft...)]
1	N26	L	Y	-.25

Member Point Loads (BLC 1 : Dead)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP1	Y	-.082	%50
2	MP2	Y	-.075	%33.3
3	MP2	Y	-.07	%66.7
4	MP3	Y	-.081	%50
5	MP3	Y	-.035	%50

Member Point Loads (BLC 2 : Ice Dead)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP1	Y	-.057	%50
2	MP2	Y	-.032	%33.3



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Member Point Loads (BLC 2 : Ice Dead) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
3	MP2	Y	-.025	%66.7
4	MP3	Y	-.194	%50
5	MP3	Y	-.023	%50

Member Point Loads (BLC 3 : Full Wind Antenna (0 Deg))

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP1	Z	-.056	%25.7
2	MP2	Z	-.056	%33.3
3	MP2	Z	-.045	%66.7
4	MP3	Z	-.197	0
5	MP1	Z	-.056	%74.3
6	MP3	Z	-.197	%100

Member Point Loads (BLC 4 : Full Wind Antenna (30 Deg))

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP1	Z	-.041	%25.7
2	MP2	Z	-.044	%33.3
3	MP2	Z	-.035	%66.7
4	MP3	Z	-.156	0
5	MP1	Z	-.041	%74.3
6	MP3	Z	-.156	%100
7	MP1	X	.024	%25.7
8	MP2	X	.026	%33.3
9	MP2	X	.02	%66.7
10	MP3	X	.09	0
11	MP3	X	.003	%50
12	MP1	X	.024	%74.3
13	MP3	X	.09	%100

Member Point Loads (BLC 5 : Full Wind Antenna (60 Deg))

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP1	Z	-.015	%25.7
2	MP2	Z	-.021	%33.3
3	MP2	Z	-.016	%66.7
4	MP3	Z	-.074	0
5	MP1	Z	-.015	%74.3
6	MP3	Z	-.074	%100
7	MP1	X	.027	%25.7
8	MP2	X	.037	%33.3
9	MP2	X	.027	%66.7
10	MP3	X	.127	0
11	MP3	X	.001	%50
12	MP1	X	.027	%74.3
13	MP3	X	.127	%100

Member Point Loads (BLC 6 : Full Wind Antenna (90 Deg))

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP1	Z	0	%25.7
2	MP2	Z	0	%33.3
3	MP2	Z	0	%66.7
4	MP3	Z	0	0
5	MP1	Z	0	%74.3
6	MP3	Z	0	%100
7	MP1	X	.022	%25.7
8	MP2	X	.038	%33.3



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Member Point Loads (BLC 6 : Full Wind Antenna (90 Deg)) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
9	MP2	X	.027	%66.7
10	MP3	X	.13	0
11	MP1	X	.022	%74.3
12	MP3	X	.13	%100

Member Point Loads (BLC 7 : Full Wind Antenna (120 Deg))

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP1	Z	.015	%25.7
2	MP2	Z	.021	%33.3
3	MP2	Z	.016	%66.7
4	MP3	Z	.074	0
5	MP1	Z	.015	%74.3
6	MP3	Z	.074	%100
7	MP1	X	.027	%25.7
8	MP2	X	.037	%33.3
9	MP2	X	.027	%66.7
10	MP3	X	.127	0
11	MP3	X	.001	%50
12	MP1	X	.027	%74.3
13	MP3	X	.127	%100

Member Point Loads (BLC 8 : Full Wind Antenna (150 Deg))

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP1	Z	.041	%25.7
2	MP2	Z	.044	%33.3
3	MP2	Z	.035	%66.7
4	MP3	Z	.156	0
5	MP1	Z	.041	%74.3
6	MP3	Z	.156	%100
7	MP1	X	.024	%25.7
8	MP2	X	.026	%33.3
9	MP2	X	.02	%66.7
10	MP3	X	.09	0
11	MP3	X	.003	%50
12	MP1	X	.024	%74.3
13	MP3	X	.09	%100

Member Point Loads (BLC 15 : Ice Wind Antenna (0 Deg))

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP1	Z	-.011	%25.7
2	MP2	Z	-.012	%33.3
3	MP2	Z	-.01	%66.7
4	MP3	Z	-.04	0
5	MP1	Z	-.011	%74.3
6	MP3	Z	-.04	%100

Member Point Loads (BLC 16 : Ice Wind Antenna (30 Deg))

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP1	Z	-.009	%25.7
2	MP2	Z	-.01	%33.3
3	MP2	Z	-.008	%66.7
4	MP3	Z	-.032	0
5	MP1	Z	-.009	%74.3
6	MP3	Z	-.032	%100
7	MP1	X	.005	%25.7



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Member Point Loads (BLC 16 : Ice Wind Antenna (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
8	MP2	X	.006	%33.3
9	MP2	X	.004	%66.7
10	MP3	X	.018	0
11	MP3	X	.001	%50
12	MP1	X	.005	%74.3
13	MP3	X	.018	%100

Member Point Loads (BLC 17 : Ice Wind Antenna (60 Deg))

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP1	Z	-.003	%25.7
2	MP2	Z	-.005	%33.3
3	MP2	Z	-.004	%66.7
4	MP3	Z	-.015	0
5	MP1	Z	-.003	%74.3
6	MP3	Z	-.015	%100
7	MP1	X	.006	%25.7
8	MP2	X	.008	%33.3
9	MP2	X	.006	%66.7
10	MP3	X	.027	0
11	MP3	X	0	%50
12	MP1	X	.006	%74.3
13	MP3	X	.027	%100

Member Point Loads (BLC 18 : Ice Wind Antenna (90 Deg))

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP1	Z	0	%25.7
2	MP2	Z	0	%33.3
3	MP2	Z	0	%66.7
4	MP3	Z	0	0
5	MP1	Z	0	%74.3
6	MP3	Z	0	%100
7	MP1	X	.005	%25.7
8	MP2	X	.008	%33.3
9	MP2	X	.006	%66.7
10	MP3	X	.028	0
11	MP1	X	.005	%74.3
12	MP3	X	.028	%100

Member Point Loads (BLC 19 : Ice Wind Antenna (120 Deg))

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP1	Z	.003	%25.7
2	MP2	Z	.005	%33.3
3	MP2	Z	.004	%66.7
4	MP3	Z	.015	0
5	MP1	Z	.003	%74.3
6	MP3	Z	.015	%100
7	MP1	X	.006	%25.7
8	MP2	X	.008	%33.3
9	MP2	X	.006	%66.7
10	MP3	X	-.027	0
11	MP3	X	0	%50
12	MP1	X	.006	%74.3
13	MP3	X	.027	%100



Member Point Loads (BLC 20 : Ice Wind Antenna (150 Deg))

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft. %]
1	MP1	Z	.009	%25.7
2	MP2	Z	.005	%33.3
3	MP2	Z	.004	%66.7
4	MP3	Z	.015	0
5	MP1	Z	.009	%74.3
6	MP3	Z	.015	%100
7	MP1	X	.005	%25.7
8	MP2	X	.008	%33.3
9	MP2	X	.006	%66.7
10	MP3	X	.027	0
11	MP3	X	0	%50
12	MP1	X	.005	%74.3
13	MP3	X	.027	%100

Member Point Loads (BLC 27 : Seismic Antenna (0 Deg))

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft. %]
1	MP1	Z	-.007	%50
2	MP2	Z	-.006	%33.3
3	MP2	Z	-.006	%66.7
4	MP3	Z	-.007	%50
5	MP3	Z	-.003	%50

Member Point Loads (BLC 28 : Seismic Antenna (90 Deg))

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft. %]
1	MP1	X	.007	%50
2	MP2	X	.006	%33.3
3	MP2	X	.006	%66.7
4	MP3	X	.007	%50
5	MP3	X	.003	%50

Member Point Loads (BLC 41 : Seismic Vertical Antennas)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft. %]
1	MP1	Y	-.003	%50
2	MP2	Y	-.003	%33.3
3	MP2	Y	-.003	%66.7
4	MP3	Y	-.003	%50
5	MP3	Y	-.001	%50

Member Distributed Loads (BLC 2 : Ice Dead)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft. %]	End Location[ft. %]
1	M1	Y	-.001	-.001	0	%100
2	M2	Y	-.001	-.001	0	%100
3	M3	Y	-.001	-.001	0	%100
4	M4	Y	-.001	-.001	0	%100
5	M5	Y	-.001	-.001	0	%100
6	M6	Y	-.001	-.001	0	%100
7	MP3	Y	-.004	-.004	0	%100
8	MP2	Y	-.004	-.004	0	%100
9	MP1	Y	-.004	-.004	0	%100
10	M10	Y	-.004	-.004	0	%100
11	M11	Y	-.004	-.004	0	%100
12	M12	Y	-.01	-.01	0	%100
13	M13	Y	-.01	-.01	0	%100



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Member Distributed Loads (BLC 9 : Full Wind Members (0 Deg))

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	MP2	Z	-.006	-.006	0	%20.4
2	MP1	Z	-.006	-.006	0	%25.7
3	M10	Z	-.007	-.007	0	%100
4	M11	Z	-.007	-.007	0	%100
5	M12	Z	0	0	0	%100
6	M13	Z	0	0	0	%100
7	MP2	Z	-.006	-.006	%77.1	%100
8	MP1	Z	-.006	-.006	%74.3	%100
9	MP3	X	0	0	0	%100
10	MP2	X	0	0	0	%100
11	MP1	X	0	0	0	%100
12	M10	X	0	0	0	%100
13	M11	X	0	0	0	%100
14	M12	X	0	0	0	%100
15	M13	X	0	0	0	%100

Member Distributed Loads (BLC 10 : Full Wind Members (30 Deg))

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	MP2	Z	-.005	-.005	0	%20.4
2	MP1	Z	-.005	-.005	0	%25.7
3	M10	Z	-.005	-.005	0	%100
4	M11	Z	-.005	-.005	0	%100
5	M12	Z	-.005	-.005	0	%100
6	M13	Z	-.005	-.005	0	%100
7	MP2	Z	-.005	-.005	%77.1	%100
8	MP1	Z	-.005	-.005	%74.3	%100
9	MP3	X	.003	.003	0	%100
10	MP2	X	.003	.003	0	%100
11	MP1	X	.003	.003	0	%100
12	M10	X	.003	.003	0	%100
13	M11	X	.003	.003	0	%100
14	M12	X	.003	.003	0	%100
15	M13	X	.003	.003	0	%100

Member Distributed Loads (BLC 11 : Full Wind Members (60 Deg))

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	MP2	Z	-.003	-.003	0	%20.4
2	MP1	Z	-.003	-.003	0	%25.7
3	M10	Z	-.001	-.001	0	%100
4	M11	Z	-.001	-.001	0	%100
5	M12	Z	-.009	-.009	0	%100
6	M13	Z	-.009	-.009	0	%100
7	MP2	Z	-.003	-.003	%77.1	%100
8	MP1	Z	-.003	-.003	%74.3	%100
9	MP3	X	.005	.005	0	%100
10	MP2	X	.005	.005	0	%100
11	MP1	X	.005	.005	0	%100
12	M10	X	.002	.002	0	%100
13	M11	X	.002	.002	0	%100
14	M12	X	.016	.016	0	%100
15	M13	X	.016	.016	0	%100

Member Distributed Loads (BLC 12 : Full Wind Members (90 Deg))

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	MP2	Z	0	0	0	%20.4



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Member Distributed Loads (BLC 12 : Full Wind Members (90 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
2	MP1	Z	0	0	0	%25.7
3	M10	Z	0	0	0	%100
4	M11	Z	0	0	0	%100
5	M12	Z	0	0	0	%100
6	M13	Z	0	0	0	%100
7	MP2	Z	0	0	%77.1	%100
8	MP1	Z	0	0	%74.3	%100
9	MP3	X	.006	.006	0	%100
10	MP2	X	.006	.006	0	%100
11	MP1	X	.006	.006	0	%100
12	M10	X	0	0	0	%100
13	M11	X	0	0	0	%100
14	M12	X	.024	.024	0	%100
15	M13	X	.024	.024	0	%100

Member Distributed Loads (BLC 13 : Full Wind Members (120 Deg))

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	MP2	Z	.003	.003	0	%20.4
2	MP1	Z	.003	.003	0	%25.7
3	M10	Z	.001	.001	0	%100
4	M11	Z	.001	.001	0	%100
5	M12	Z	.009	.009	0	%100
6	M13	Z	.009	.009	0	%100
7	MP2	Z	.003	.003	%77.1	%100
8	MP1	Z	.003	.003	%74.3	%100
9	MP3	X	.005	.005	0	%100
10	MP2	X	.005	.005	0	%100
11	MP1	X	.005	.005	0	%100
12	M10	X	.002	.002	0	%100
13	M11	X	.002	.002	0	%100
14	M12	X	.016	.016	0	%100
15	M13	X	.016	.016	0	%100

Member Distributed Loads (BLC 14 : Full Wind Members (150 Deg))

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	MP2	Z	.005	.005	0	%20.4
2	MP1	Z	.005	.005	0	%25.7
3	M10	Z	.005	.005	0	%100
4	M11	Z	.005	.005	0	%100
5	M12	Z	.005	.005	0	%100
6	M13	Z	.005	.005	0	%100
7	MP2	Z	.005	.005	%77.1	%100
8	MP1	Z	.005	.005	%74.3	%100
9	MP3	X	.003	.003	0	%100
10	MP2	X	.003	.003	0	%100
11	MP1	X	.003	.003	0	%100
12	M10	X	.003	.003	0	%100
13	M11	X	.003	.003	0	%100
14	M12	X	.003	.003	0	%100
15	M13	X	.003	.003	0	%100

Member Distributed Loads (BLC 21 : Ice Wind Members (0 Deg))

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	M1	Z	0	0	0	%100
2	M2	Z	0	0	0	%100



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Member Distributed Loads (BLC 21 : Ice Wind Members (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
3	M3	Z	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M5	Z	0	0	0	%100
6	M6	Z	0	0	0	%100
7	MP2	Z	-.002	-.002	0	%20.4
8	MP1	Z	-.002	-.002	0	%25.7
9	M10	Z	-.002	-.002	0	%100
10	M11	Z	-.002	-.002	0	%100
11	M12	Z	0	0	0	%100
12	M13	Z	0	0	0	%100
13	MP2	Z	-.002	-.002	%77.1	%100
14	MP1	Z	-.002	-.002	%74.3	%100
15	M1	X	0	0	0	%100
16	M2	X	0	0	0	%100
17	M3	X	0	0	0	%100
18	M4	X	0	0	0	%100
19	M5	X	0	0	0	%100
20	M6	X	0	0	0	%100
21	MP3	X	0	0	0	%100
22	MP2	X	0	0	0	%100
23	MP1	X	0	0	0	%100
24	M10	X	0	0	0	%100
25	M11	X	0	0	0	%100
26	M12	X	0	0	0	%100
27	M13	X	0	0	0	%100

Member Distributed Loads (BLC 22 : Ice Wind Members (30 Deg))

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	M1	Z	0	0	0	%100
2	M2	Z	0	0	0	%100
3	M3	Z	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M5	Z	0	0	0	%100
6	M6	Z	0	0	0	%100
7	MP2	Z	-.002	-.002	0	%20.4
8	MP1	Z	-.002	-.002	0	%25.7
9	M10	Z	-.001	-.001	0	%100
10	M11	Z	-.001	-.001	0	%100
11	M12	Z	-.001	-.001	0	%100
12	M13	Z	-.001	-.001	0	%100
13	MP2	Z	-.002	-.002	%77.1	%100
14	MP1	Z	-.002	-.002	%74.3	%100
15	M1	X	0	0	0	%100
16	M2	X	0	0	0	%100
17	M3	X	0	0	0	%100
18	M4	X	0	0	0	%100
19	M5	X	0	0	0	%100
20	M6	X	0	0	0	%100
21	MP3	X	.001	.001	0	%100
22	MP2	X	.001	.001	0	%100
23	MP1	X	.001	.001	0	%100
24	M10	X	.001	.001	0	%100
25	M11	X	.001	.001	0	%100
26	M12	X	.001	.001	0	%100
27	M13	X	.001	.001	0	%100



Member Distributed Loads (BLC 23 : Ice Wind Members (60 Deg))

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	M1	Z	0	0	0	%100
2	M2	Z	0	0	0	%100
3	M3	Z	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M5	Z	0	0	0	%100
6	M6	Z	0	0	0	%100
7	MP2	Z	-.001	-.001	0	%20.4
8	MP1	Z	-.001	-.001	0	%25.7
9	M10	Z	-.001	-.001	0	%100
10	M11	Z	-.001	-.001	0	%100
11	M12	Z	-.002	-.002	0	%100
12	M13	Z	-.002	-.002	0	%100
13	MP2	Z	-.001	-.001	%77.1	%100
14	MP1	Z	-.001	-.001	%74.3	%100
15	M1	X	0	0	0	%100
16	M2	X	0	0	0	%100
17	M3	X	0	0	0	%100
18	M4	X	0	0	0	%100
19	M5	X	0	0	0	%100
20	M6	X	0	0	0	%100
21	MP3	X	.002	.002	0	%100
22	MP2	X	.002	.002	0	%100
23	MP1	X	.002	.002	0	%100
24	M10	X	.001	.001	0	%100
25	M11	X	.001	.001	0	%100
26	M12	X	.003	.003	0	%100
27	M13	X	.003	.003	0	%100

Member Distributed Loads (BLC 24 : Ice Wind Members (90 Deg))

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	M1	Z	0	0	0	%100
2	M2	Z	0	0	0	%100
3	M3	Z	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M5	Z	0	0	0	%100
6	M6	Z	0	0	0	%100
7	MP2	Z	0	0	0	%20.4
8	MP1	Z	0	0	0	%25.7
9	M10	Z	0	0	0	%100
10	M11	Z	0	0	0	%100
11	M12	Z	0	0	0	%100
12	M13	Z	0	0	0	%100
13	MP2	Z	0	0	%77.1	%100
14	MP1	Z	0	0	%74.3	%100
15	M1	X	0	0	0	%100
16	M2	X	0	0	0	%100
17	M3	X	0	0	0	%100
18	M4	X	0	0	0	%100
19	M5	X	0	0	0	%100
20	M6	X	0	0	0	%100
21	MP3	X	.002	.002	0	%100
22	MP2	X	.002	.002	0	%100
23	MP1	X	.002	.002	0	%100
24	M10	X	.001	.001	0	%100
25	M11	X	.001	.001	0	%100
26	M12	X	.004	.004	0	%100



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Member Distributed Loads (BLC 24 : Ice Wind Members (90 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
27	M13	X	.004	.004	0	%100

Member Distributed Loads (BLC 25 : Ice Wind Members (120 Deg))

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	M1	Z	0	0	0	%100
2	M2	Z	0	0	0	%100
3	M3	Z	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M5	Z	0	0	0	%100
6	M6	Z	0	0	0	%100
7	MP2	Z	.001	.001	0	%20.4
8	MP1	Z	.001	.001	0	%25.7
9	M10	Z	.001	.001	0	%100
10	M11	Z	.001	.001	0	%100
11	M12	Z	.002	.002	0	%100
12	M13	Z	.002	.002	0	%100
13	MP2	Z	.001	.001	%77.1	%100
14	MP1	Z	.001	.001	%74.3	%100
15	M1	X	0	0	0	%100
16	M2	X	0	0	0	%100
17	M3	X	0	0	0	%100
18	M4	X	0	0	0	%100
19	M5	X	0	0	0	%100
20	M6	X	0	0	0	%100
21	MP3	X	.002	.002	0	%100
22	MP2	X	.002	.002	0	%100
23	MP1	X	.002	.002	0	%100
24	M10	X	.001	.001	0	%100
25	M11	X	.001	.001	0	%100
26	M12	X	.003	.003	0	%100
27	M13	X	.003	.003	0	%100

Member Distributed Loads (BLC 26 : Ice Wind Members (150 Deg))

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	M1	Z	0	0	0	%100
2	M2	Z	0	0	0	%100
3	M3	Z	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M5	Z	0	0	0	%100
6	M6	Z	0	0	0	%100
7	MP2	Z	.002	.002	0	%20.4
8	MP1	Z	.002	.002	0	%25.7
9	M10	Z	.001	.001	0	%100
10	M11	Z	.001	.001	0	%100
11	M12	Z	.001	.001	0	%100
12	M13	Z	.001	.001	0	%100
13	MP2	Z	.002	.002	%77.1	%100
14	MP1	Z	.002	.002	%74.3	%100
15	M1	X	0	0	0	%100
16	M2	X	0	0	0	%100
17	M3	X	0	0	0	%100
18	M4	X	0	0	0	%100
19	M5	X	0	0	0	%100
20	M6	X	0	0	0	%100
21	MP3	X	.001	.001	0	%100
22	MP2	X	.001	.001	0	%100



Member Distributed Loads (BLC 26 : Ice Wind Members (150 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
23	MP1	X	.001	.001	0	%100
24	M10	X	.001	.001	0	%100
25	M11	X	.001	.001	0	%100
26	M12	X	.001	.001	0	%100
27	M13	X	.001	.001	0	%100

Member Area Loads

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

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribut...	Area(Me...Surface(...
1	Dead	None		-1			5		
2	Ice Dead	None					5	13	
3	Full Wind Antenna (0 Deg)	None					6		
4	Full Wind Antenna (30 Deg)	None					13		
5	Full Wind Antenna (60 Deg)	None					13		
6	Full Wind Antenna (90 Deg)	None					12		
7	Full Wind Antenna (120 Deg)	None					13		
8	Full Wind Antenna (150 Deg)	None					13		
9	Full Wind Members (0 Deg)	None						15	
10	Full Wind Members (30 Deg)	None						15	
11	Full Wind Members (60 Deg)	None						15	
12	Full Wind Members (90 Deg)	None						15	
13	Full Wind Members (120 Deg)	None						15	
14	Full Wind Members (150 Deg)	None						15	
15	Ice Wind Antenna (0 Deg)	None					6		
16	Ice Wind Antenna (30 Deg)	None					13		
17	Ice Wind Antenna (60 Deg)	None					13		
18	Ice Wind Antenna (90 Deg)	None					12		
19	Ice Wind Antenna (120 Deg)	None					13		
20	Ice Wind Antenna (150 Deg)	None					13		
21	Ice Wind Members (0 Deg)	None						27	
22	Ice Wind Members (30 Deg)	None						27	
23	Ice Wind Members (60 Deg)	None						27	
24	Ice Wind Members (90 Deg)	None						27	
25	Ice Wind Members (120 Deg)	None						27	
26	Ice Wind Members (150 Deg)	None						27	
27	Seismic Antenna (0 Deg)	None					5		
28	Seismic Antenna (90 Deg)	None					5		
29	Seismic Members (0 Deg)	None		-0.042	-0.084				
30	Seismic Members (30 Deg)	None	.042	-0.042	-0.073				
31	Seismic Members (60 Deg)	None	.073	-0.042	-0.042				
32	Seismic Members (90 Deg)	None	.084	-0.042	-5.17e-18				
33	Seismic Members (120 Deg)	None	.073	-0.042	.042				
34	Seismic Members (150 Deg)	None	.042	-0.042	.073				
35	Seismic Members (180 Deg)	None	1.034e-17	-0.042	.084				
36	Seismic Members (210 Deg)	None	-0.042	-0.042	.073				
37	Seismic Members (240 Deg)	None	-0.073	-0.042	.042				
38	Seismic Members (270 Deg)	None	-0.084	-0.042	1.551e-17				
39	Seismic Members (300 Deg)	None	-0.073	-0.042	-0.042				
40	Seismic Members (330 Deg)	None	-0.042	-0.042	-0.073				
41	Seismic Vertical Antennas	None					5		
42	Man 1 (500 lbs)	None				1			



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Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribut...	Area(Me...	Surface(...
43	Man 2 (500 lbs)	None				1				
44	Man 3 (500 lbs)	None				1				
45	Man 4 (250 lbs)	None				1				
46	Man 5 (250 lbs)	None				1				
47	Man 6 (250 lbs)	None				1				

Load Combinations

	Description	SolvePDe...	SRSS	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	
1	1.4D	Yes	Y		1	1.4																
2	1.2D + 1.0W 0°	Yes	Y		1	1.2	3	1	9	1												
3	1.2D + 1.0W 30°	Yes	Y		1	1.2	4	1	10	1												
4	1.2D + 1.0W 60°	Yes	Y		1	1.2	5	1	11	1												
5	1.2D + 1.0W 90°	Yes	Y		1	1.2	6	1	12	1												
6	1.2D + 1.0W 120°	Yes	Y		1	1.2	7	1	13	1												
7	1.2D + 1.0W 150°	Yes	Y		1	1.2	8	1	14	1												
8	1.2D + 1.0W 180°	Yes	Y		1	1.2	3	-1	9	-1												
9	1.2D + 1.0W 210°	Yes	Y		1	1.2	4	-1	10	-1												
10	1.2D + 1.0W 240°	Yes	Y		1	1.2	5	-1	11	-1												
11	1.2D + 1.0W 270°	Yes	Y		1	1.2	6	-1	12	-1												
12	1.2D + 1.0W 300°	Yes	Y		1	1.2	7	-1	13	-1												
13	1.2D + 1.0W 330°	Yes	Y		1	1.2	8	-1	14	-1												
14	1.2D + 1.0Di + 1.0Wi 0°	Yes	Y		1	1.2	2	1	15	1	21	1										
15	1.2D + 1.0Di + 1.0Wi 30°	Yes	Y		1	1.2	2	1	16	1	22	1										
16	1.2D + 1.0Di + 1.0Wi 60°	Yes	Y		1	1.2	2	1	17	1	23	1										
17	1.2D + 1.0Di + 1.0Wi 90°	Yes	Y		1	1.2	2	1	18	1	24	1										
18	1.2D + 1.0Di + 1.0Wi 12...	Yes	Y		1	1.2	2	1	19	1	25	1										
19	1.2D + 1.0Di + 1.0Wi 15...	Yes	Y		1	1.2	2	1	20	1	26	1										
20	1.2D + 1.0Di + 1.0Wi 18...	Yes	Y		1	1.2	2	1	15	-1	21	-1										
21	1.2D + 1.0Di + 1.0Wi 21...	Yes	Y		1	1.2	2	1	16	-1	22	-1										
22	1.2D + 1.0Di + 1.0Wi 24...	Yes	Y		1	1.2	2	1	17	-1	23	-1										
23	1.2D + 1.0Di + 1.0Wi 27...	Yes	Y		1	1.2	2	1	18	-1	24	-1										
24	1.2D + 1.0Di + 1.0Wi 30...	Yes	Y		1	1.2	2	1	19	-1	25	-1										
25	1.2D + 1.0Di + 1.0Wi 33...	Yes	Y		1	1.2	2	1	20	-1	26	-1										
26	1.2D + 1.5Lm_1 + 1.0W...	Yes	Y		1	1.2	3	.067	9	.067	42	1.5										
27	1.2D + 1.5Lm_1 + 1.0W...	Yes	Y		1	1.2	4	.067	10	.067	42	1.5										
28	1.2D + 1.5Lm_1 + 1.0W...	Yes	Y		1	1.2	5	.067	11	.067	42	1.5										
29	1.2D + 1.5Lm_1 + 1.0W...	Yes	Y		1	1.2	6	.067	12	.067	42	1.5										
30	1.2D + 1.5Lm_1 + 1.0W...	Yes	Y		1	1.2	7	.067	13	.067	42	1.5										
31	1.2D + 1.5Lm_1 + 1.0W...	Yes	Y		1	1.2	8	.067	14	.067	42	1.5										
32	1.2D + 1.5Lm_1 + 1.0W...	Yes	Y		1	1.2	3	-0...	9	-0...	42	1.5										
33	1.2D + 1.5Lm_1 + 1.0W...	Yes	Y		1	1.2	4	-0...	10	-0...	42	1.5										
34	1.2D + 1.5Lm_1 + 1.0W...	Yes	Y		1	1.2	5	-0...	11	-0...	42	1.5										
35	1.2D + 1.5Lm_1 + 1.0W...	Yes	Y		1	1.2	6	-0...	12	-0...	42	1.5										
36	1.2D + 1.5Lm_1 + 1.0W...	Yes	Y		1	1.2	7	-0...	13	-0...	42	1.5										
37	1.2D + 1.5Lm_1 + 1.0W...	Yes	Y		1	1.2	8	-0...	14	-0...	42	1.5										
38	1.2D + 1.5Lm_2 + 1.0W...	Yes	Y		1	1.2	3	.067	9	.067	43	1.5										
39	1.2D + 1.5Lm_2 + 1.0W...	Yes	Y		1	1.2	4	.067	10	.067	43	1.5										
40	1.2D + 1.5Lm_2 + 1.0W...	Yes	Y		1	1.2	5	.067	11	.067	43	1.5										
41	1.2D + 1.5Lm_2 + 1.0W...	Yes	Y		1	1.2	6	.067	12	.067	43	1.5										
42	1.2D + 1.5Lm_2 + 1.0W...	Yes	Y		1	1.2	7	.067	13	.067	43	1.5										
43	1.2D + 1.5Lm_2 + 1.0W...	Yes	Y		1	1.2	8	.067	14	.067	43	1.5										
44	1.2D + 1.5Lm_2 + 1.0W...	Yes	Y		1	1.2	3	-0...	9	-0...	43	1.5										
45	1.2D + 1.5Lm_2 + 1.0W...	Yes	Y		1	1.2	4	-0...	10	-0...	43	1.5										
46	1.2D + 1.5Lm_2 + 1.0W...	Yes	Y		1	1.2	5	-0...	11	-0...	43	1.5										
47	1.2D + 1.5Lm_2 + 1.0W...	Yes	Y		1	1.2	6	-0...	12	-0...	43	1.5										



Company : MasTec Network Solutions
 Designer : RSC
 Job Number : 46129-RMA1
 Model Name : 467170 - NAUGATUCK_4_CT

Sept 14, 2023
 4:21 PM
 Checked By: _____

Load Combinations (Continued)

	Description	Solve	PDe...	SRSS	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	
48	1.2D + 1.5Lm 2 + 1.0W...	Yes	Y		1	1.2	7	-0...	13	-0...	43	1.5											
49	1.2D + 1.5Lm 2 + 1.0W...	Yes	Y		1	1.2	8	-0...	14	-0...	43	1.5											
50	1.2D + 1.5Lm 3 + 1.0W...	Yes	Y		1	1.2	3	.067	9	.067	44	1.5											
51	1.2D + 1.5Lm 3 + 1.0W...	Yes	Y		1	1.2	4	.067	10	.067	44	1.5											
52	1.2D + 1.5Lm 3 + 1.0W...	Yes	Y		1	1.2	5	.067	11	.067	44	1.5											
53	1.2D + 1.5Lm 3 + 1.0W...	Yes	Y		1	1.2	6	.067	12	.067	44	1.5											
54	1.2D + 1.5Lm 3 + 1.0W...	Yes	Y		1	1.2	7	.067	13	.067	44	1.5											
55	1.2D + 1.5Lm 3 + 1.0W...	Yes	Y		1	1.2	8	.067	14	.067	44	1.5											
56	1.2D + 1.5Lm 3 + 1.0W...	Yes	Y		1	1.2	3	-0...	9	-0...	44	1.5											
57	1.2D + 1.5Lm 3 + 1.0W...	Yes	Y		1	1.2	4	-0...	10	-0...	44	1.5											
58	1.2D + 1.5Lm 3 + 1.0W...	Yes	Y		1	1.2	5	-0...	11	-0...	44	1.5											
59	1.2D + 1.5Lm 3 + 1.0W...	Yes	Y		1	1.2	6	-0...	12	-0...	44	1.5											
60	1.2D + 1.5Lm 3 + 1.0W...	Yes	Y		1	1.2	7	-0...	13	-0...	44	1.5											
61	1.2D + 1.5Lm 3 + 1.0W...	Yes	Y		1	1.2	8	-0...	14	-0...	44	1.5											
62	1.2D + 1.5Lv 1 0°	Yes	Y		1	1.2	45	1.5															
63	1.2D + 1.5Lv 1 30°	Yes	Y		1	1.2	45	1.5															
64	1.2D + 1.5Lv 1 60°	Yes	Y		1	1.2	45	1.5															
65	1.2D + 1.5Lv 1 90°	Yes	Y		1	1.2	45	1.5															
66	1.2D + 1.5Lv 1 120°	Yes	Y		1	1.2	45	1.5															
67	1.2D + 1.5Lv 1 150°	Yes	Y		1	1.2	45	1.5															
68	1.2D + 1.5Lv 1 180°	Yes	Y		1	1.2	45	1.5															
69	1.2D + 1.5Lv 1 210°	Yes	Y		1	1.2	45	1.5															
70	1.2D + 1.5Lv 1 240°	Yes	Y		1	1.2	45	1.5															
71	1.2D + 1.5Lv 1 270°	Yes	Y		1	1.2	45	1.5															
72	1.2D + 1.5Lv 1 300°	Yes	Y		1	1.2	45	1.5															
73	1.2D + 1.5Lv 1 330°	Yes	Y		1	1.2	45	1.5															
74	1.2D + 1.5Lv 2 0°	Yes	Y		1	1.2	46	1.5															
75	1.2D + 1.5Lv 2 30°	Yes	Y		1	1.2	46	1.5															
76	1.2D + 1.5Lv 2 60°	Yes	Y		1	1.2	46	1.5															
77	1.2D + 1.5Lv 2 90°	Yes	Y		1	1.2	46	1.5															
78	1.2D + 1.5Lv 2 120°	Yes	Y		1	1.2	46	1.5															
79	1.2D + 1.5Lv 2 150°	Yes	Y		1	1.2	46	1.5															
80	1.2D + 1.5Lv 2 180°	Yes	Y		1	1.2	46	1.5															
81	1.2D + 1.5Lv 2 210°	Yes	Y		1	1.2	46	1.5															
82	1.2D + 1.5Lv 2 240°	Yes	Y		1	1.2	46	1.5															
83	1.2D + 1.5Lv 2 270°	Yes	Y		1	1.2	46	1.5															
84	1.2D + 1.5Lv 2 300°	Yes	Y		1	1.2	46	1.5															
85	1.2D + 1.5Lv 2 330°	Yes	Y		1	1.2	46	1.5															
86	1.2D + 1.5Lv 3 0°	Yes	Y		1	1.2	47	1.5															
87	1.2D + 1.5Lv 3 30°	Yes	Y		1	1.2	47	1.5															
88	1.2D + 1.5Lv 3 60°	Yes	Y		1	1.2	47	1.5															
89	1.2D + 1.5Lv 3 90°	Yes	Y		1	1.2	47	1.5															
90	1.2D + 1.5Lv 3 120°	Yes	Y		1	1.2	47	1.5															
91	1.2D + 1.5Lv 3 150°	Yes	Y		1	1.2	47	1.5															
92	1.2D + 1.5Lv 3 180°	Yes	Y		1	1.2	47	1.5															
93	1.2D + 1.5Lv 3 210°	Yes	Y		1	1.2	47	1.5															
94	1.2D + 1.5Lv 3 240°	Yes	Y		1	1.2	47	1.5															
95	1.2D + 1.5Lv 3 270°	Yes	Y		1	1.2	47	1.5															
96	1.2D + 1.5Lv 3 300°	Yes	Y		1	1.2	47	1.5															
97	1.2D + 1.5Lv 3 330°	Yes	Y		1	1.2	47	1.5															
98	1.2D + 1.0EV + 1.0 EH 0°	Yes	Y		1	1.2	27	1	28		29	1	41	1									
99	1.2D + 1.0EV + 1.0 EH 3...	Yes	Y		1	1.2	27	.866	28	.5	30	1	41	1									
100	1.2D + 1.0EV + 1.0 EH 6...	Yes	Y		1	1.2	27	.5	28	.866	31	1	41	1									
101	1.2D + 1.0EV + 1.0 EH 9...	Yes	Y		1	1.2	27		28	1	32	1	41	1									
102	1.2D + 1.0EV + 1.0 EH 1...	Yes	Y		1	1.2	27	-.5	28	.866	33	1	41	1									
103	1.2D + 1.0EV + 1.0 EH 1...	Yes	Y		1	1.2	27	-.8...	28	.5	34	1	41	1									
104	1.2D + 1.0EV + 1.0 EH 1...	Yes	Y		1	1.2	27	-1	28		35	1	41	1									



Company : MasTec Network Solutions
 Designer : RSC
 Job Number : 46129-RMA1
 Model Name : 467170 - NAUGATUCK_4_CT

Sept 14, 2023
 4:21 PM
 Checked By: _____

Load Combinations (Continued)

	Description	Solve	PDe	SRSS	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
105	1.2D + 1.0EV + 1.0 EH 2...	Yes	Y		1	1.2	27	-8...	28	-5	36	1	41	1						
106	1.2D + 1.0EV + 1.0 EH 2...	Yes	Y		1	1.2	27	-5	28	-8...	37	1	41	1						
107	1.2D + 1.0EV + 1.0 EH 2...	Yes	Y		1	1.2	27		28	-1	38	1	41	1						
108	1.2D + 1.0EV + 1.0 EH 3...	Yes	Y		1	1.2	27	.5	28	-8...	39	1	41	1						
109	1.2D + 1.0EV + 1.0 EH 3...	Yes	Y		1	1.2	27	.866	28	-5	40	1	41	1						

Envelope Joint Reactions

	Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N32	max	1.066	59	.682	61	.65	2	-.066	2	1.409	13	.222	31
2		min	-.412	5	.182	7	-.735	8	-.765	32	-.995	7	-.618	61
3	N19	max	0	28	.746	43	.089	14	-.118	13	.295	2	.264	28
4		min	-1.031	58	.175	13	.012	8	-.768	43	-1.131	56	-.636	58
5	Totals:	max	.53	11	1.364	61	.723	2						
6		min	-.53	5	.614	4	-.723	8						

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

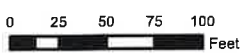
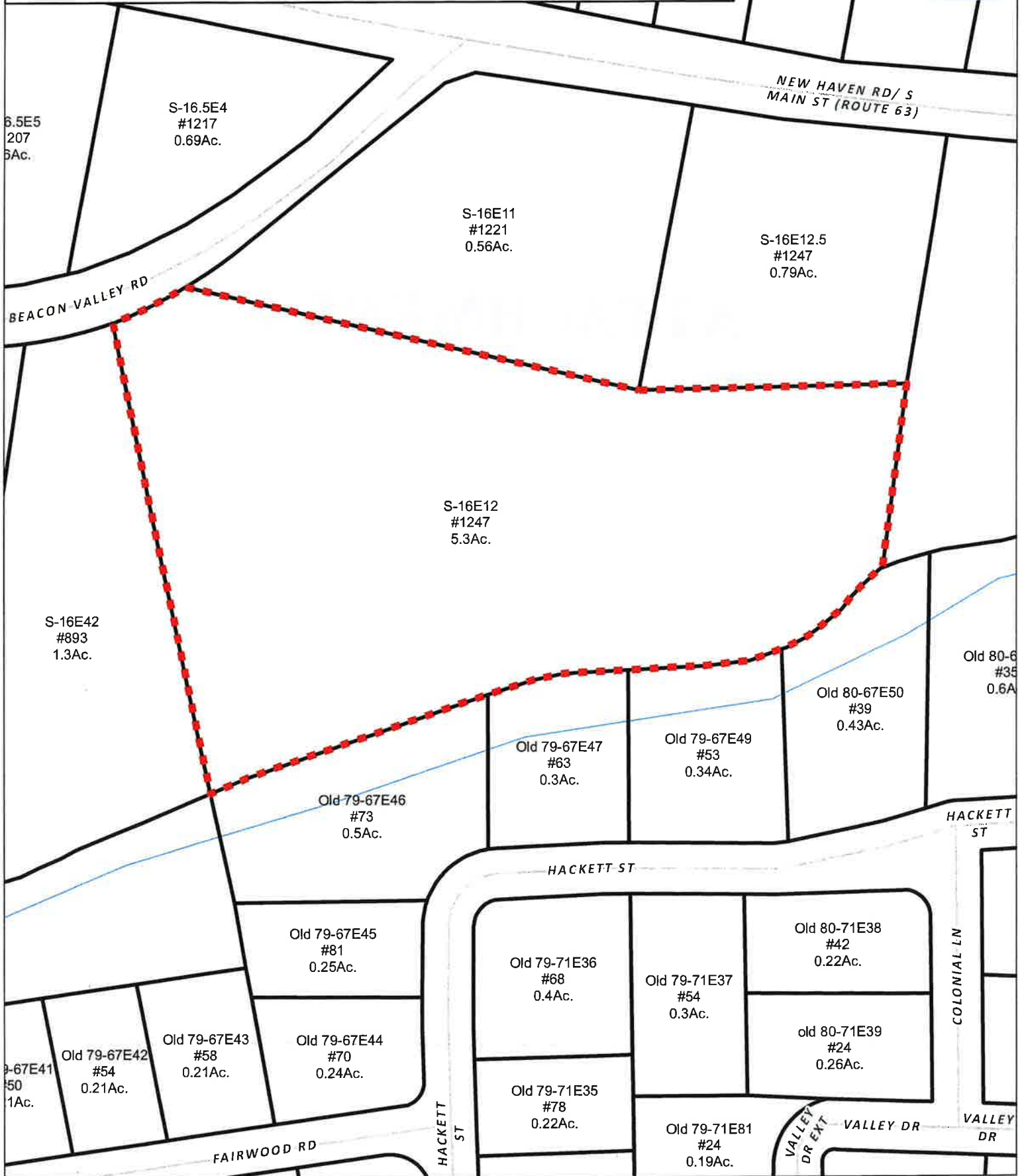
Member	Shape	Code C...	Loc[ft]	LC Shear ...	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y...	phi*Mn z...	Cb	Eqn
1	MP3	PIPE 2.0	406	3.75 2 .086	3.75		61	20.867	32.13	1.872	1.872	3...	H1-1b
2	MP2	PIPE 2.0	.273	5.75 57 .071	3.75		8	20.867	32.13	1.872	1.872	3...	H1-1b
3	MP1	PIPE 2.0	.126	5.75 31 .031	3.75		27	20.867	32.13	1.872	1.872	3...	H1-1b
4	M10	PIPE 2.5	207	3.889 57 .061	2.917		50	38.388	50.715	3.596	3.596	1...	H1-1b
5	M11	PIPE 2.5	314	3.889 8 .168	2.917		8	38.388	50.715	3.596	3.596	1...	H1-1b
6	M12	HSS6X6X4	.049	1.099 61 .037	1.099	z	60	216.472	216.936	38.64	38.64	1...	H1-1b
7	M13	HSS6X6X4	.048	1.099 56 .037	0	z	58	216.472	216.936	38.64	38.64	1...	H1-1b

ATTACHMENT 4

Borough of Naugatuck, Connecticut - Assessment Parcel Map

Parcel Account Number: 066-5630

Address: 1247 NEW HAVEN RD



Disclaimer: This map is for informational purposes only.
All information is subject to verification by any user.
The Borough of Naugatuck and its mapping contractors
assume no legal responsibility for the information contained herein.

Map Produced March 2019



Property Information

Property Location	1247 NEW HAVEN RD
Owner	NAUGATUCK PARTNERS LLC
Co-Owner	
Mailing Address	109 NICHOLS DRIVE WATERBURY CT 06708
Land Use	4000 INDUSTRIAL
Land Class	I
Zoning Code	RA1
Census Tract	

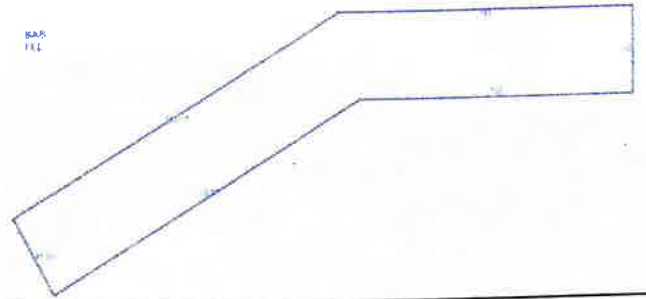
Neighborhood	A2
Acreage	5.3
Utilities	
Lot Setting/Desc	
Book / Page	1085/688
Additional Info	

Photo



066-5630 03/21/2012

Sketch



Primary Construction Details

Year Built	1973
Building Desc.	INDUSTRIAL
Building Style	Warehouse
Building Grade	C
Stories	1
Occupancy	1.00
Exterior Walls	Pre-cast Concr
Exterior Walls 2	NA
Roof Style	Flat
Roof Cover	T+G/Rubber
Interior Walls	Drywall
Interior Walls 2	Minim/Masonry
Interior Floors 1	Concrete
Interior Floors 2	Concr Abv Grad

Heating Fuel	None
Heating Type	None
AC Type	None
Bedrooms	0
Full Bathrooms	0
Half Bathrooms	0
Extra Fixtures	0
Total Rooms	0
Bath Style	NA
Kitchen Style	NA
Fin Bsmt Area	
Fin Bsmt Quality	
Bsmt Gar	0
Fireplaces	0

(*Industrial / Commercial Details)

Building Use	Ind/Comm
Building Condition	P
Sprinkler %	NA
Heat / AC	NONE
Frame Type	STEEL
Baths / Plumbing	AVERAGE
Ceiling / Wall	SUS-CEIL & WL
Rooms / Prtns	AVERAGE
Wall Height	12.00
First Floor Use	NA
Foundation	NA



Borough of Naugatuck, CT

Property Listing Report

Map Block Lot 74-51

Building # 1 Unique Identifier 066-5630

Property Information

Property Location	1247 NEW HAVEN RD
Mailing Address	40 CALLENDAR ROAD WATERTOWN CT 06795
Land Use	Heavy Manufacturing
Zoning Code	RA1
Neighborhood	09

Owner	THE NHR PROPERTY GROUP LLC
Co-Owner	
Book / Page	1091/0639
Land Class	Industrial
Census Tract	345202
Acreage	5.3

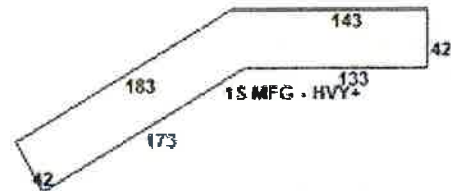
Valuation Summary

(Assessed value = 70% of Appraised Value)

Item	Appraised	Assessed
Buildings	42500	29750
Outbuildings	78600	55020
Land	121100	84770
Total	242200	169540

Utility Information

Electric	No
Gas	No
Sewer	No
Public Water	No
Well	No



Primary Construction Details

Year Built	1973
Building Desc.	Commercial
Building Style	
Stories	1
Exterior Walls	Pre-Cast Concrete
Exterior Walls 2	
Interior Walls	Drywall
Interior Walls 2	None/Minumum
Interior Floors 1	Concrete
Interior Floors 2	Concr Abv Grad

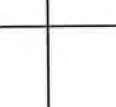

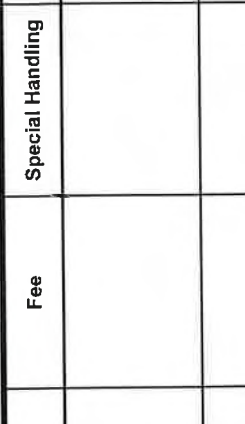
Heating Fuel	None
Heating Type	None
AC Type	None
Bedrooms	0
Full Bathrooms	0
Half Bathrooms	0
Extra Fixtures	0
Total Rooms	0
Bath Style	NA
Kitchen Style	
Occupancy	0

Building Use	Warehouse
Building Condition	Poor
Frame Type	D
Fireplaces	0
Bsmt Gar	0
Fin Bsmt Area	0
Fin Bsmt Quality	
Building Grade	0
Roof Style	Flat
Roof Cover	Tar and Gravel

ATTACHMENT 5

Certificate of Mailing — Firm



Name and Address of Sender	TOTAL NO. of Pieces Listed by Sender	TOTAL NO. of Pieces Received at Post Office™	Affix Stamp Here Postmark with Date of Receipt.		
Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	3	3 Postmaster, per (name of receiving employee) 	 		
USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	N. Warren "Pete" Hess III, Mayor Borough of Naugatuck 229 Church Street Naugatuck, CT 06770	Lori Rotella, Town Planner/Wetlands Enforcement Officer			
2.	The NHR Property Group LLC 40 Callendar Road Watertown, CT 06795				
3.					
4.					
5.					
6.					