

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  
864 Opening Hill Road, Madison, Connecticut**

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains a wireless telecommunications facility at the above-referenced address (the “Property”). Cellco’s facility consists of antennas and remote radio heads attached to a tower. Equipment associated with the facility is located on the ground adjacent to the tower. The tower was approved by the Town of Madison (“Town”) in April of 1997. Cellco’s shared use of the tower was approved by Council in July of 1997. A copy of the Town’s approval and Cellco’s exempt modification approval are included in Attachment 1.

Cellco’s proposed modification involves the installation of two (2) interference mitigation filters (“Filters”) on its existing antenna platform and antenna 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 Madison’s Chief Elected Official and Land Use Officer.

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

1. The proposed 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 antenna 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 the 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 (“SA”) and Antenna Mount Analysis Report (“MA”), the existing tower, foundation, antenna platform and mounting assembly can support Cellco’s proposed modifications. A copy of the SA and MA are included in Attachment 3.

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

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

Sincerely,



Kenneth C. Baldwin

Enclosures

Copy to:

Peggy Lyons, First Selectwoman

Erin Mannix, Town Planner

North Madison Volunteer Fire Company, Inc., Property Owner

Alex Tyurin, Verizon Wireless

# **ATTACHMENT 1**



TOWN OF MADISON  
CONNECTICUT  
LAND USE OFFICE

8 CAMPUS DRIVE  
MADISON, CONNECTICUT 06443-2563  
(203) 245-5632  
FAX (203) 245-5613

MADISON PLANNING AND ZONING COMMISSION  
CERTIFICATION OF SPECIAL EXCEPTION PERMIT OR  
MODIFICATION OF SPECIAL EXCEPTION PERMIT

APPL. NO.: 97-5D

DATE OF APPROVAL: April 17, 1997

This certifies that on the above date a MODIFICATION OF SPECIAL EXCEPTION PERMIT was granted by the Madison Planning and Zoning Commission to:

OWNER OF RECORD: North Madison Volunteer Fire Department

under the provisions of Sec. 4.7 of the Zoning Regulations of the Town of Madison on property located at:

STREET ADDRESS OR LOCATION: 864 OPENING HILL ROAD

TO ALLOW: Construction of a 180 ft. communications tower to replace existing tower, installation of equipment building and emergency back-up generator waiving requirements of 1) a traffic study; 2) a waste water report and engineering study; and 3) final floor plans for the equipment building. The temporary installation of the "Cell on Wheels" was also approved. This approval is conditioned on plastic slats being placed in the chain link fence to obscure the view of the materials enclosed.

*In accordance with Section 4.6 of said Regulations, this approval and permit are conditioned upon completion of all proposed improvements in accordance with approved plans within five years from date of approval, and shall become null and void in the event of failure to complete such improvements within said five year period or any extension thereof granted by the Commission.*

Appl.: Owner

William B. Bilcheck  
Chairman, Planning and Zoning Commission

Received for Record \_\_\_\_\_, 19 \_\_\_\_\_

at \_\_\_\_\_ h \_\_\_\_\_ m

\_\_\_\_\_  
Signature of Town Clerk

*Copy filed May 30, 1997*

FRM.SEPERMIT 6/91



**TOWN OF MADISON  
CONNECTICUT  
LAND USE OFFICE**

8 CAMPUS DRIVE  
MADISON, CONNECTICUT 06443-2563  
(203) 245-5632  
FAX (203) 245-5613

May 24, 1999

**CERTIFIED MAIL**

North Madison Volunteer Fire Company, Inc.  
864 Opening Hill Road  
Madison, CT 06443

**Re: Application #99-26D: 864 OPENING HILL ROAD.** Request for Modification of Special Exception Permit to allow relocation of the site for emergency generator, enlarge the fenced compound, change the style of the fence, add landscaping and permit Nextel Communications and Sprint PCS to install radio equipment shelters inside the enlarged compound.

Gentlemen:

At their regular meeting on May 20, 1999, the Planning and Zoning Commission approved the application above referenced as presented at the meeting.

Before this Modification of Special Exception Permit will become effective, it is necessary to file a Certificate in the Land Records of the Town for which there is a \$10.00 filing fee. At your earliest convenience, please forward this amount to our office so that we may file this Certificate in your behalf. Your check should be made payable to the Town of Madison.

When this Certificate is filed at the end of the appeal period, you may apply for building permits through normal Building Department procedures.

Very truly yours,

William McMinn  
Planning and Zoning Administrator

: drk

Copy to: Ronald C. Clark, Nextel Communications



STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

10 Franklin Square  
New Britain, Connecticut 06051  
Phone: (860) 827-2935  
Fax: (860) 827-2950

July 1, 1997

Kenneth C. Baldwin  
Robinson & Cole  
One Commercial Plaza  
280 Trumbull Street  
Hartford, CT 06103-3597

Re: Cellco Partnership d/b/a Bell Atlantic NYNEX Mobile notice of intent to modify an existing telecommunications facility located at 864 Opening Hill Road in Madison, Connecticut.

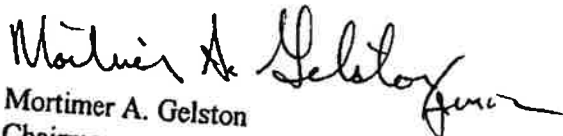
Dear Mr. Baldwin:

At a public meeting held on June 30, 1997, the Connecticut Siting Council (Council) acknowledged your notice of intent to modify an existing telecommunications site in Madison, Connecticut, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified in your notice dated June 16, 1997. The modifications are in compliance with the exception criteria in Section 16-50j-72 (c)(1) of the Regulations of Connecticut State Agencies as changes to an existing non-facility site that would not cause a significant change or alteration in the physical and environmental characteristics of the site. This site has been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequency now used on this tower. Any additional change to this site will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Science and Technology, Bulletin No. 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,

  
Mortimer A. Gelston  
Chairman

MAG/RKE/ss

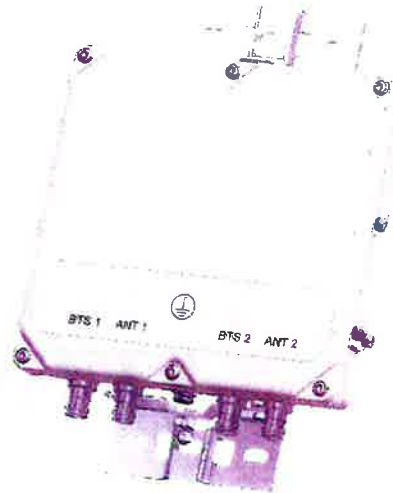
c: Honorable Thomas Rylander, First Selectman, Town of Madison

# **ATTACHMENT 2**

# BSF0020F3V1-1

## TWIN BANDS FOR SLOWED INTERFERENCE MITIGATION FILTER

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



### FEATURES

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

### TECHNICAL SPECIFICATIONS

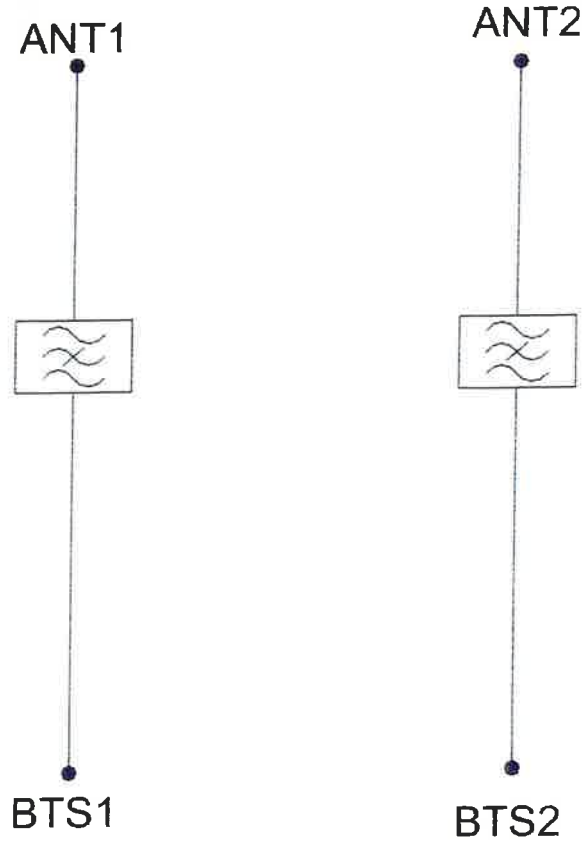
700/850 BANDS	700/850 DL/UL BAND PATH	850 DOWNLINK PATH
Passband	698 - 849MHz	869 - 891.5MHz
Insertion loss	0.1dB typical, 0.3dB maximum	0.5dB typical, 1.45dB maximum
Return loss	24dB typical, 18dB minimum	
Maximum input power (Per Port)	100W average	200W average and 66W per 5MHz
Rejection	53dB minimum @ 894.1 - 896.5MHz	
<b>ELECTRICAL</b>		
Impedance	50Ohms	
Intermodulation products	-160dBc maximum in UL Band (assuming 20MHz Signal), with 2 x 43dBm carriers -153dBc maximum with 2 x 43dBm	
<b>DC / AISG</b>		
Passband	0 - 13MHz	
Insertion loss	0.3dB maximum	
Return loss	15dB minimum	
Input voltage range	± 33V	
DC current rating	2A continuous, 4A peak	
Compliance	3GPP TS 25.461	
<b>ENVIRONMENTAL</b>		
For further details of environmental compliance, please contact Kaelus.		
Temperature range	-20°C to +60°C ; -4°F to +140°F	
Ingress protection	IP67	
Altitude	2600m ; 8530ft	
Lightning protection	RF port: ±5kA maximum(8/20us), IEC 61000-4-5 – Unit must be terminated with some lightning protection circuits.	
MTBF	>1,000,000 hours	
Compliance	ETSI EN 300 019 class 4.1H, RoHS, NEBS GR-487-CORE	
<b>MECHANICAL</b>		
Dimensions H x D x W	269 x 277 x 80mm ; 10.60 x 10.90 x 3.15in (Excluding brackets and connectors)	
Weight	8.0 kg ; 17.6 lbs (no bracket)	
Finish	Powder coated, light grey (RAL7035)	
Connectors	RF: 4.3-10 (F) x 4	
Mounting	Optional pole/wall bracket supplied with two metal clamps 45-170mm diameter poles or custom bracket. See ordering information.	



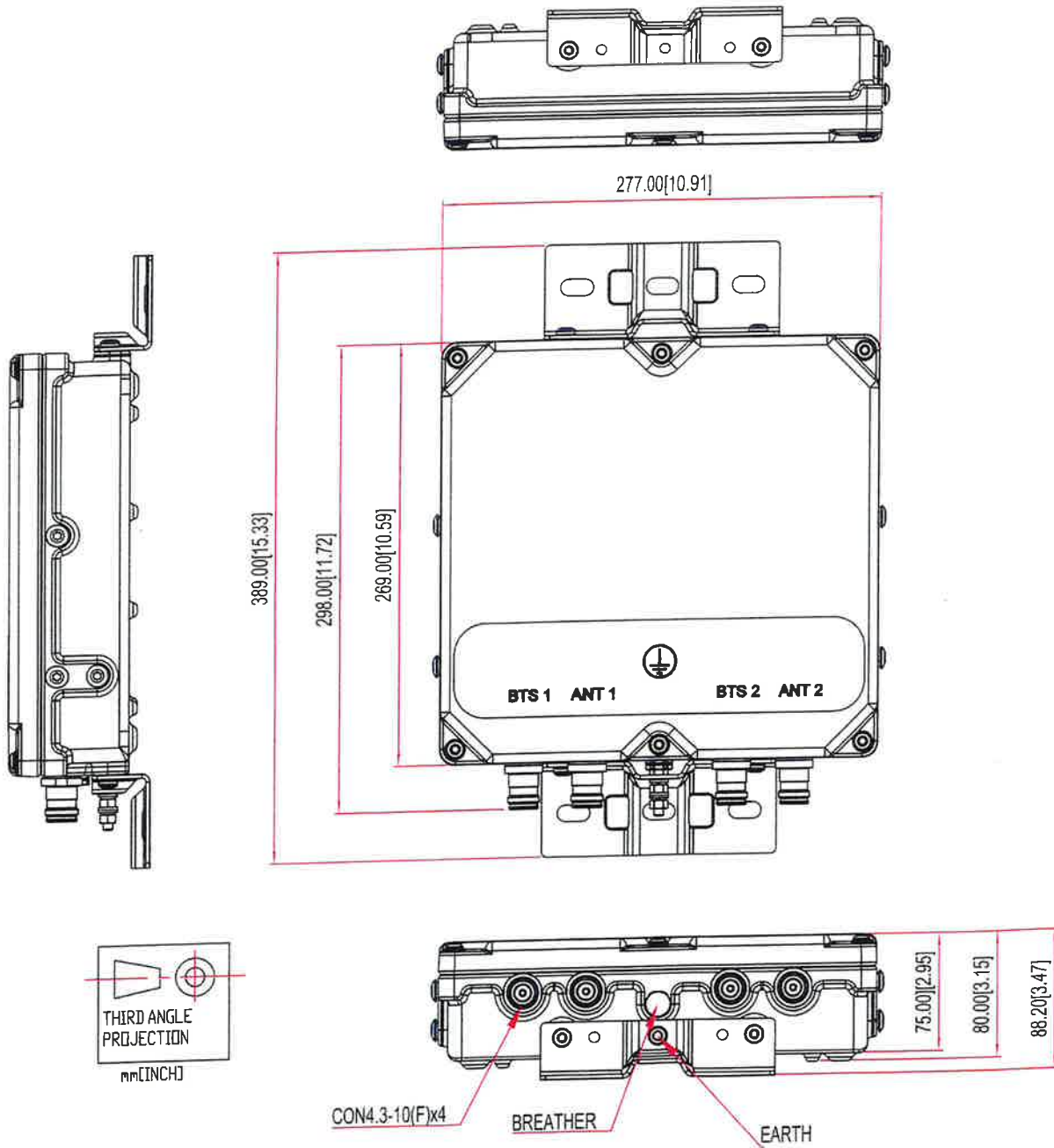
## ORDERING INFORMATION

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**

October 18, 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: MADISON\_CT  
Site Number: 469141

**Engineering Firm Designation:** MNS Project Number: 45535-SAR2

**Site Data:** 864 Opening Hill Road  
Madison, New Haven County, CT 06443  
Latitude 41.3573°, Longitude -72.6388°  
180 ft Self Support Tower

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 *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:

<b>Tower Components</b>	<b>62.4%</b>	<b>Sufficient</b>
<b>Foundation</b>	<b>40.4%</b>	<b>Sufficient</b>

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: Phylcia D. Hicks

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
PJF	Structural Analysis	PJF Project: A42921-0018.003.8700	1/13/2022
MasTec	Construction Drawings	MNS Project No. 33741-AEC	7/24/2023

**Table 2: Design Basis**

Codes and Standards	
Local Building Code	2022 Connecticut State Building Code
Building Code	2021 International Building Code
Industry Standard	ANSI/TIA-222-H
Wind Parameters	
Ultimate Wind Speed	131 mph
Nominal Wind Speed with Ice	50 mph
Radial Ice Thickness	1 in
Service Wind Speed	60 mph
Exposure Category	B
Risk Category	III
Topographic Category	1
Seismic Parameters	
S <sub>s</sub>	0.209
S <sub>1</sub>	0.054

Wind loading is assumed to control over seismic loading, therefore no further seismic analysis was performed.

Based on our analysis, we have determined the tower and foundation 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) Existing feedlines are installed in a single row.

**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)	Qty	Feed Lines	Mount Type
170	3	Andrew LNX-6514DS-A1M	Verizon	169	6	1 5/8 6x12 Hybrid	(3) 6'x15' Boom Gate
	6	JMA Wireless MX06FRO660-03					
	3	Samsung MT6407-77A					
	3	Samsung B5/B13 RRH					
	3	Samsung B2/B66A RRH					
	2	Kaelus BSF0020F3V1-1					
	2	Raycap RVZDC-6627-PF-48					

**Other Considered Equipment:**

Antenna Elevation (ft)	Qty.	Description	Mount Elevation (ft)	Qty.	Feed lines	Mount Type
186	1	12' 4-Bay Dipole	180	1	7/8	-
187	1	20'x3" Omni	177	2	7/8	(2) Side Arm Mount
150	3	RFS Celwave APXVSP18-C-A20	150	4	1 1/4	(3) 14' Sector Mount
	3	RFS Celwave APXVTM14-C-120				
	9	Ericsson RRUS-11				
140	3	CCI Antennas HPA65R-BU6AA	140	12	1 1/4	(3) 14' Sector Mount
	3	Kathrein 80010965				
	3	Powerwave Technologies 7770.00				
	6	Ericsson RRUS-11				
	6	Powerwave Technologies LGP1720X				
130	2	Raycap DC6-48-60-18-8F	130	12	1 5/8	(3) 12' T-Frame Mount
	3	RFS Celwave APXVAARR24_43-U-NA20				
	3	EMS Wireless RR90-17-DP				
	3	Ericsson RRUS-11				
130	3	Ericsson KRY 112 71/2	130	3	1 1/4	(3) 12' T-Frame Mount
	3	Ericsson RRUS-11				
	3	Ericsson KRY 112 71/2				
122	1	4' x 1 3/4" Omni	120	1	7/8	6' Side Arm Mount
108	1	12" x 12" x 12" Junction Box	108	3	1 1/4	-
95	1	10' 4-Bay Dipole	90	1	7/8	6' Side Arm Mount
88	1	4' x 1 3/4" Omni	86	1	7/8	6' Side Arm Mount
55	1	GPS	55	1	1/2	3' Side Arm Mount



## ANALYSIS RESULTS

tnxTower (version 8.1.1.0), a commercially available software package for structural analysis, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in **APPENDIX 2**. Please find below a summary of the tower analysis results.

Capacity percentages below 100% are considered acceptable for structure components. Capacities up to 100% are considered acceptable for foundation soil interaction.

**Table 4: Tower Components**

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	$\beta P_{allow}$ K	% Capacity	Pass Fail
T1	180 - 160	Leg	P3x.216 (3.5 OD)	3	-6.16	72.00	8.6	Pass
T2	160 - 140	Leg	P4x.337 (4.50 OD)	41	-27.01	161.33	16.7	Pass
T3	140 - 120	Leg	P5x.375 (5.5625 OD)	80	-59.29	240.72	24.6	Pass
T4	120 - 100	Leg	P6x.34 (6.625 OD)	119	-94.78	275.84	34.4	Pass
T5	100 - 80	Leg	Pipe 8.625" x 0.375" (8 EHS)	158	-124.15	388.36	32.0	Pass
T6	80 - 60	Leg	P8x.5 (8.625 OD)	185	-158.89	508.20	31.3	Pass
T7	60 - 40	Leg	P8x.5 (8.625 OD)	212	-193.38	508.20	38.1	Pass
T8	40 - 20	Leg	P10x.5 (10.75 OD)	239	-227.35	670.86	33.9	Pass
T9	20 - 0	Leg	P10x.5 (10.75 OD)	266	-260.75	670.86	38.9	Pass
T1	180 - 160	Diagonal	P2x.154 (2.375 OD)	12	-4.71	18.40	25.6	Pass
T2	160 - 140	Diagonal	P2x.218 (2.375 OD)	47	-6.43	20.62	31.2	Pass
T3	140 - 120	Diagonal	P2x.218 (2.375 OD)	86	-9.37	17.62	53.2	Pass
T4	120 - 100	Diagonal	P2.5x.203 (2.875 OD)	122	-9.51	26.49	35.9	Pass
T5	100 - 80	Diagonal	P3x.216 (3.5 OD)	161	-12.28	30.78	39.9	Pass
T6	80 - 60	Diagonal	P3x.216 (3.5 OD)	188	-12.79	27.41	46.7	Pass
T7	60 - 40	Diagonal	P3x.216 (3.5 OD)	215	-13.24	24.44	54.2	Pass
T8	40 - 20	Diagonal	P3x.216 (3.5 OD)	242	-13.57	22.18	61.2	Pass
T9	20 - 0	Diagonal	P3x.300 (3.50 OD)	269	-14.00	25.61	54.7	Pass
T1	180 - 160	Horizontal	P1.5x.145 (1.90 OD)	10	-2.59	22.67	11.4	Pass
T2	160 - 140	Horizontal	P1.5x.145 (1.90 OD)	46	-4.02	19.29	20.8	Pass
T3	140 - 120	Horizontal	P1.5x.145 (1.90 OD)	85	-6.47	14.45	44.8	Pass
T4	120 - 100	Horizontal	P2x.154 (2.375 OD)	121	-7.00	22.03	31.8	Pass
T5	100 - 80	Horizontal	P2x.154 (2.375 OD)	160	-7.88	18.10	43.5	Pass
T6	80 - 60	Horizontal	P2x.154 (2.375 OD)	187	-8.72	13.98	62.4	Pass
T7	60 - 40	Horizontal	P2.5x.203 (2.875 OD)	214	-9.44	25.55	36.9	Pass
T8	40 - 20	Horizontal	P2.5x.203 (2.875 OD)	241	-10.03	21.14	47.4	Pass
T9	20 - 0	Horizontal	P3x.216 (3.5 OD)	268	-10.57	34.56	30.6 39.6 (b)	Pass
T1	180 - 160	Top Girt	P1.5x.145 (1.90 OD)	4	-0.22	22.67	1.0	Pass
T1	180 - 160	Inner Bracing	L2x2x1/8	16	-0.00	8.35	0.4	Pass
T2	160 - 140	Inner Bracing	L2x2x1/8	52	-0.00	6.14	0.5	Pass
T3	140 - 120	Inner Bracing	L2x2x1/8	91	-0.01	4.19	0.5	Pass
T4	120 - 100	Inner Bracing	L2x2x1/8	130	-0.01	3.04	0.6	Pass
T5	100 - 80	Inner Bracing	L2x2x1/8	170	-0.01	2.40	0.7	Pass
T6	80 - 60	Inner Bracing	L2 1/2x2 1/2x3/16	196	-0.01	5.42	0.6	Pass
T7	60 - 40	Inner Bracing	L3x3x3/16	223	-0.01	7.62	0.6	Pass
T8	40 - 20	Inner Bracing	L3 1/2x3 1/2x1/4	250	-0.01	13.13	0.5	Pass
T9	20 - 0	Inner Bracing	L3 1/2x3 1/2x1/4	277	-0.01	10.96	0.5	Pass
							Summary	

						Leg (T9)	38.9	Pass
						Diagonal (T8)	61.2	Pass
						Horizontal (T6)	62.4	Pass
						Top Girt (T1)	1.0	Pass
						Inner Bracing (T5)	0.7	Pass
						Bolt Checks	39.6	Pass
						<b>RATING =</b>	<b>62.4</b>	<b>Pass</b>

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

**Table 5: Additional Structural Components**

Elevation (ft)	Component	Percentage	Result	Notes
0	Anchor Rods	25.1	Pass	1
0	Base Foundation	40.4	Pass	1

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

#### ASSUMPTIONS, LIMITATIONS AND DISCLAIMER

- 1) The structure was built in accordance with the designer's specifications and the structure has been maintained and is free of damage.
- 2) This Structural Analysis is not a condition assessment of the tower and foundation 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 tower 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 tower and foundation were constructed and have been maintained in accordance with manufacturer's specifications.
- 8) The configuration of antennas, feed lines, mounts, and other appurtenances are as specified in **Table 3**.

**APPENDIX 1: LOADING PARAMETERS**



# ASCE 7 Hazards Report

**Address:**  
No Address at This Location

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

**Latitude:** 41.357314  
**Longitude:** -72.638756  
**Elevation:** 306.1145970528846 ft (NAVD 88)



## Wind

### Results:

Wind Speed	131 Vmph
10-year MRI	75 Vmph
25-year MRI	85 Vmph
50-year MRI	93 Vmph
100-year MRI	100 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1C and Figs. CC.2-1–CC.2-4, and Section 26.5.2  
Date Accessed: Wed Aug 02 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 3% probability of exceedance in 50 years (annual exceedance probability = 0.000588, MRI = 1,700 years).

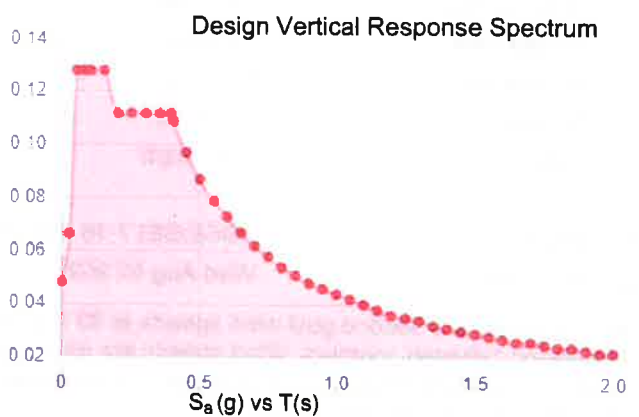
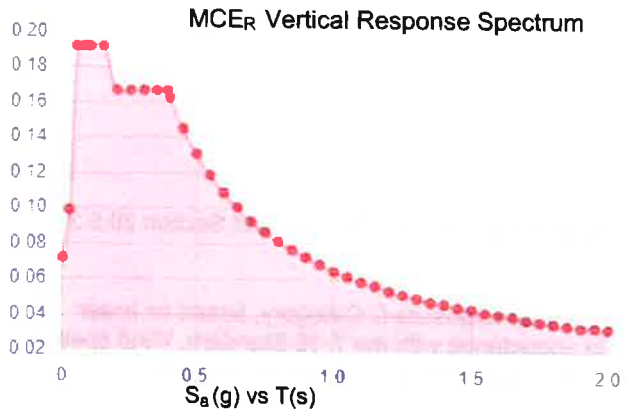
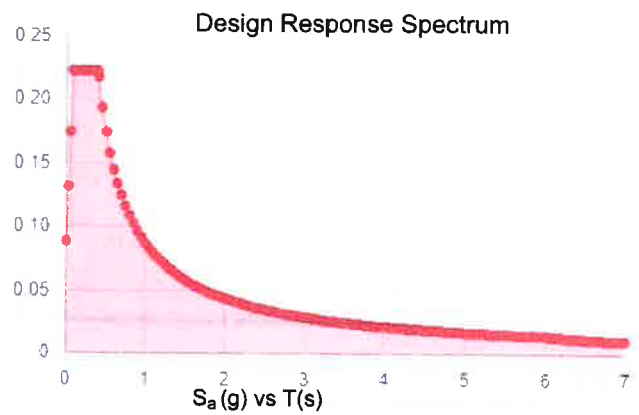
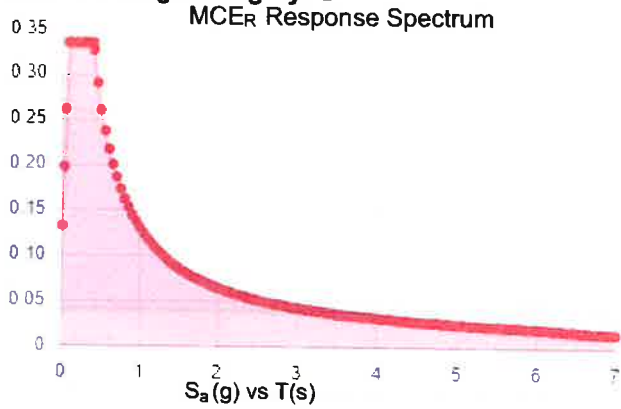
Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

**Site Soil Class:**

**Results:**

$S_S$ :	0.209	$S_{D1}$ :	0.087
$S_1$ :	0.054	$T_L$ :	6
$F_a$ :	1.6	PGA :	0.117
$F_v$ :	2.4	PGA <sub>M</sub> :	0.184
$S_{MS}$ :	0.335	$F_{PGA}$ :	1.566
$S_{M1}$ :	0.131	$I_e$ :	1.25
$S_{DS}$ :	0.223	$C_v$ :	0.718

**Seismic Design Category: B**



**Data Accessed:** Wed Aug 02 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.**

**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:** Wed Aug 02 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.

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**APPENDIX 2: TNXTOWER OUTPUT**





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	<b>Client</b> Verizon	<b>Designed by</b> PDH

## Tower Input Data

The main tower is a 3x free standing tower with an overall height of 180.00 ft above the ground line.  
The base of the tower is set at an elevation of 0.00 ft above the ground line.  
The face width of the tower is 8.54 ft at the top and 25.33 ft at the base.  
This tower is designed using the TIA-222-H standard.

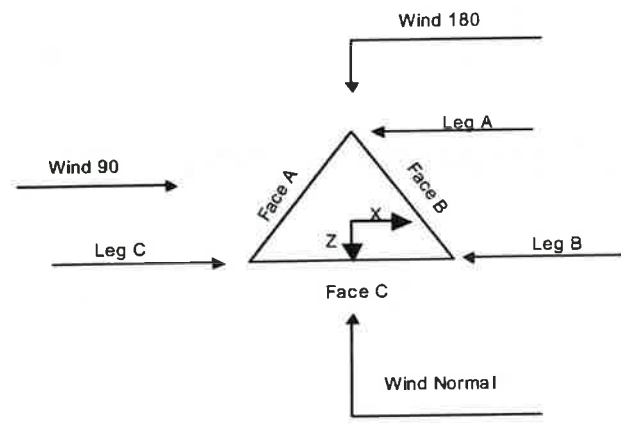
The following design criteria apply:

- Tower is located in New Haven County, Connecticut.
- Tower base elevation above sea level: 306.11 ft.
- Basic wind speed of 131 mph.
- Risk Category III.
- Exposure Category B.
- Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- Topographic Category: 1.
- Crest Height: 0.00 ft.
- Nominal ice thickness of 1.0000 in.
- Ice thickness is considered to increase with height.
- Ice density of 56 pcf.
- A wind speed of 50 mph is used in combination with ice.
- Temperature drop of 50 °F.
- Deflections calculated using a wind speed of 60 mph.
- Pressures are calculated at each section.
- Stress ratio used in tower member design is 1.
- Tower analysis based on target reliabilities in accordance with Annex S.
- Load Modification Factors used:  $K_{cs}(F_w) = 1.0$ ,  $K_{cs}(t_i) = 1.0$ .
- Maximum demand-capacity ratio is: 1.
- Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

## Options

- |  |  |  |
|--|--|--|
| <ul style="list-style-type: none"> <li>Consider Moments - Legs</li> <li>Consider Moments - Horizontals</li> <li>Consider Moments - Diagonals</li> <li>Use Moment Magnification</li> <li>√ Use Code Stress Ratios</li> <li>√ Use Code Safety Factors - Guys</li> <li>Escalate Ice</li> <li>Always Use Max Kz</li> <li>Use Special Wind Profile</li> <li>√ Include Bolts In Member Capacity</li> <li>Leg Bolts Are At Top Of Section</li> <li>√ Secondary Horizontal Braces Leg</li> <li>Use Diamond Inner Bracing (4 Sided)</li> <li>SR Members Have Cut Ends</li> <li>SR Members Are Concentric</li> </ul> | <ul style="list-style-type: none"> <li>Distribute Leg Loads As Uniform</li> <li>Assume Legs Pinned</li> <li>√ Assume Rigid Index Plate</li> <li>√ Use Clear Spans For Wind Area</li> <li>√ Use Clear Spans For KL/r</li> <li>Retension Guys To Initial Tension</li> <li>√ Bypass Mast Stability Checks</li> <li>√ Use Azimuth Dish Coefficients</li> <li>√ Project Wind Area of Appurt.</li> <li>Autocalc Torque Arm Areas</li> <li>Add IBC .6D+W Combination</li> <li>√ Sort Capacity Reports By Component</li> <li>√ Triangulate Diamond Inner Bracing</li> <li>Treat Feed Line Bundles As Cylinder</li> <li>Ignore KL/r For 60 Deg. Angle Legs</li> </ul> | <ul style="list-style-type: none"> <li>Use ASCE 10 X-Brace Ly Rules</li> <li>Calculate Redundant Bracing Forces</li> <li>Ignore Redundant Members in FEA</li> <li>√ SR Leg Bolts Resist Compression</li> <li>All Leg Panels Have Same Allowable</li> <li>Offset Girt At Foundation</li> <li>√ Consider Feed Line Torque</li> <li>√ Include Angle Block Shear Check</li> <li>Use TIA-222-H Bracing Resist. Exemption</li> <li>Use TIA-222-H Tension Splice Exemption</li> <li style="text-align: center;"><b>Poles</b></li> <li>Include Shear-Torsion Interaction</li> <li>Always Use Sub-Critical Flow</li> <li>Use Top Mounted Sockets</li> <li>Pole Without Linear Attachments</li> <li>Pole With Shroud Or No Appurtenances</li> <li>Outside and Inside Corner Radii Are Known</li> </ul> |
|--|--|--|

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**Triangular Tower**

**Tower Section Geometry**

Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length
	ft			ft		ft
T1	180.00-160.00			8.54	1	20.00
T2	160.00-140.00			8.54	1	20.00
T3	140.00-120.00			10.64	1	20.00
T4	120.00-100.00			12.74	1	20.00
T5	100.00-80.00			14.84	1	20.00
T6	80.00-60.00			16.94	1	20.00
T7	60.00-40.00			19.03	1	20.00
T8	40.00-20.00			21.13	1	20.00
T9	20.00-0.00			23.23	1	20.00

**Tower Section Geometry (cont'd)**

Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset	Bottom Girt Offset
	ft	ft				in	in
T1	180.00-160.00	6.53	K Brace Down	No	Yes	5.0000	0.0000
T2	160.00-140.00	6.53	K Brace Down	No	Yes	5.0000	0.0000
T3	140.00-120.00	6.53	K Brace Down	No	Yes	5.0000	0.0000
T4	120.00-100.00	6.53	K Brace Down	No	Yes	5.0000	0.0000
T5	100.00-80.00	9.79	K Brace Down	No	Yes	5.0000	0.0000
T6	80.00-60.00	9.79	K Brace Down	No	Yes	5.0000	0.0000

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Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset	Bottom Girt Offset
	ft	ft				in	in
T7	60.00-40.00	9.79	K Brace Down	No	Yes	5.0000	0.0000
T8	40.00-20.00	9.79	K Brace Down	No	Yes	5.0000	0.0000
T9	20.00-0.00	9.79	K Brace Down	No	Yes	5.0000	0.0000

### Tower Section Geometry (cont'd)

Tower Elevation	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
ft						
T1 180.00-160.00	Pipe	P3x.216 (3.5 OD)	A618-50 (50 ksi)	Pipe	P2x.154 (2.375 OD)	A618-50 (50 ksi)
T2 160.00-140.00	Pipe	P4x.337 (4.50 OD)	A618-50 (50 ksi)	Pipe	P2x.218 (2.375 OD)	A618-50 (50 ksi)
T3 140.00-120.00	Pipe	P5x.375 (5.5625 OD)	A618-50 (50 ksi)	Pipe	P2x.218 (2.375 OD)	A618-50 (50 ksi)
T4 120.00-100.00	Pipe	P6x.34 (6.625 OD)	A618-50 (50 ksi)	Pipe	P2.5x.203 (2.875 OD)	A618-50 (50 ksi)
T5 100.00-80.00	Pipe	Pipe 8.625" x 0.375" (8 EHS)	A618-50 (50 ksi)	Pipe	P3x.216 (3.5 OD)	A618-50 (50 ksi)
T6 80.00-60.00	Pipe	P8x.5 (8.625 OD)	A618-50 (50 ksi)	Pipe	P3x.216 (3.5 OD)	A618-50 (50 ksi)
T7 60.00-40.00	Pipe	P8x.5 (8.625 OD)	A618-50 (50 ksi)	Pipe	P3x.216 (3.5 OD)	A618-50 (50 ksi)
T8 40.00-20.00	Pipe	P10x.5 (10.75 OD)	A618-50 (50 ksi)	Pipe	P3x.216 (3.5 OD)	A618-50 (50 ksi)
T9 20.00-0.00	Pipe	P10x.5 (10.75 OD)	A618-50 (50 ksi)	Pipe	P3x.300 (3.50 OD)	A618-50 (50 ksi)

### Tower Section Geometry (cont'd)

Tower Elevation	No. of Mid Girts	Mid Girt Type	Mid Girt Size	Mid Girt Grade	Horizontal Type	Horizontal Size	Horizontal Grade
ft							
T1 180.00-160.00	None	Flat Bar		A36 (36 ksi)	Pipe	P1.5x.145 (1.90 OD)	A618-50 (50 ksi)
T2 160.00-140.00	None	Flat Bar		A36 (36 ksi)	Pipe	P1.5x.145 (1.90 OD)	A618-50 (50 ksi)
T3 140.00-120.00	None	Flat Bar		A36 (36 ksi)	Pipe	P1.5x.145 (1.90 OD)	A618-50 (50 ksi)
T4 120.00-100.00	None	Flat Bar		A36 (36 ksi)	Pipe	P2x.154 (2.375 OD)	A618-50 (50 ksi)
T5 100.00-80.00	None	Flat Bar		A36 (36 ksi)	Pipe	P2x.154 (2.375 OD)	A618-50 (50 ksi)
T6 80.00-60.00	None	Flat Bar		A36 (36 ksi)	Pipe	P2x.154 (2.375 OD)	A618-50 (50 ksi)
T7 60.00-40.00	None	Flat Bar		A36 (36 ksi)	Pipe	P2.5x.203 (2.875 OD)	A618-50 (50 ksi)
T8 40.00-20.00	None	Flat Bar		A36 (36 ksi)	Pipe	P2.5x.203 (2.875 OD)	A618-50 (50 ksi)
T9 20.00-0.00	None	Flat Bar		A36 (36 ksi)	Pipe	P3x.216 (3.5 OD)	A618-50 (50 ksi)

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### Tower Section Geometry (cont'd)

Tower Elevation	Secondary Horizontal Type	Secondary Horizontal Size	Secondary Horizontal Grade	Inner Bracing Type	Inner Bracing Size	Inner Bracing Grade
<i>ft</i>						
T1 180.00-160.00	Solid Round		A572-50 (50 ksi)	Equal Angle	L2x2x1/8	A36 (36 ksi)
T2 160.00-140.00	Solid Round		A572-50 (50 ksi)	Equal Angle	L2x2x1/8	A36 (36 ksi)
T3 140.00-120.00	Solid Round		A572-50 (50 ksi)	Equal Angle	L2x2x1/8	A36 (36 ksi)
T4 120.00-100.00	Solid Round		A572-50 (50 ksi)	Equal Angle	L2x2x1/8	A36 (36 ksi)
T5 100.00-80.00	Solid Round		A572-50 (50 ksi)	Equal Angle	L2x2x1/8	A36 (36 ksi)
T6 80.00-60.00	Solid Round		A572-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)
T7 60.00-40.00	Solid Round		A572-50 (50 ksi)	Equal Angle	L3x3x3/16	A36 (36 ksi)
T8 40.00-20.00	Solid Round		A572-50 (50 ksi)	Equal Angle	L3 1/2x3 1/2x1/4	A36 (36 ksi)
T9 20.00-0.00	Solid Round		A572-50 (50 ksi)	Equal Angle	L3 1/2x3 1/2x1/4	A36 (36 ksi)

### Tower Section Geometry (cont'd)

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor $A_f$	Adjust. Factor $A_r$	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals <i>in</i>	Double Angle Stitch Bolt Spacing Horizontals <i>in</i>	Double Angle Stitch Bolt Spacing Redundants <i>in</i>
<i>ft</i>	<i>ft<sup>2</sup></i>	<i>in</i>							
T1 180.00-160.00	0.00	0.3750	A36 (36 ksi)	1	1	1.1	36.0000	36.0000	36.0000
T2 160.00-140.00	0.00	0.3750	A36 (36 ksi)	1	1	1.1	36.0000	36.0000	36.0000
T3 140.00-120.00	0.00	0.3750	A36 (36 ksi)	1	1	1.1	36.0000	36.0000	36.0000
T4 120.00-100.00	0.00	0.3750	A36 (36 ksi)	1	1	1.1	36.0000	36.0000	36.0000
T5 100.00-80.00	0.00	0.3750	A36 (36 ksi)	1	1	1.1	36.0000	36.0000	36.0000
T6 80.00-60.00	0.00	0.3750	A36 (36 ksi)	1	1	1.1	36.0000	36.0000	36.0000
T7 60.00-40.00	0.00	0.3750	A36 (36 ksi)	1	1	1.1	36.0000	36.0000	36.0000
T8 40.00-20.00	0.00	0.3750	A36 (36 ksi)	1	1	1.1	36.0000	36.0000	36.0000
T9 20.00-0.00	0.00	0.3750	A36 (36 ksi)	1	1	1.1	36.0000	36.0000	36.0000



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Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
180.00-160.00														
T2	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
160.00-140.00														
T3	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
140.00-120.00														
T4	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
120.00-100.00														
T5	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
100.00-80.00														
T6	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
80.00-60.00														
T7	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
60.00-40.00														
T8	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
40.00-20.00														
T9	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
20.00-0.00														

### Tower Section Geometry (cont'd)

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T1	Flange	0.8750	4	0.6250	3	0.6250	0	0.6250	0	0.6250	0	0.6250	2	0.6250	0
180.00-160.00		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T2	Flange	1.0000	4	0.6250	3	0.6250	0	0.6250	0	0.6250	0	0.6250	2	0.6250	0
160.00-140.00		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T3	Flange	1.0000	6	0.6250	3	0.6250	0	0.6250	0	0.6250	0	0.6250	2	0.6250	0
140.00-120.00		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T4	Flange	1.0000	8	0.6250	3	0.6250	0	0.6250	0	0.6250	0	0.6250	2	0.6250	0
120.00-100.00		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T5	Flange	1.0000	8	0.6250	3	0.6250	0	0.6250	0	0.6250	0	0.6250	2	0.6250	0
100.00-80.00		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T6	Flange	1.0000	8	0.6250	3	0.6250	0	0.6250	0	0.6250	0	0.6250	2	0.6250	0
80.00-60.00		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T7	Flange	1.0000	12	0.6250	3	0.6250	0	0.6250	0	0.6250	0	0.6250	2	0.6250	0
60.00-40.00		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T8	Flange	1.0000	12	0.6250	3	0.6250	0	0.6250	0	0.6250	0	0.6250	2	0.6250	0
40.00-20.00		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T9	Flange	1.0000	0	0.6250	3	0.6250	0	0.6250	0	0.6250	0	0.6250	2	0.6250	0
20.00-0.00		A325N		A325N		A325N		A325N		A325N		A325N		A325N	

### Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Shield Leg	Allow	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
Feedline	B	No	No	Af (CuAu)	166.70 -	0.0000	0.35	2	2	3.0000	3.0000		8.40





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**Feed Line/Linear Appurtenances - Entered As Area**

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	C <sub>A</sub> A <sub>A</sub> ft <sup>2</sup> /ft	Weight plf
* * *								

**Feed Line/Linear Appurtenances Section Areas**

Tower Section	Tower Elevation ft	Face	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> In Face ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup>	Weight K
T1	180.00-160.00	A	0.000	0.000	34.166	0.000	0.30
		B	0.000	0.000	13.400	0.000	0.23
		C	0.000	0.000	0.750	0.000	0.00
T2	160.00-140.00	A	0.000	0.000	62.700	0.000	0.50
		B	0.000	0.000	40.000	0.000	0.67
		C	0.000	0.000	20.750	0.000	0.34
T3	140.00-120.00	A	0.000	0.000	103.660	0.000	0.81
		B	0.000	0.000	89.490	0.000	0.88
		C	0.000	0.000	20.750	0.000	0.34
T4	120.00-100.00	A	0.000	0.000	138.600	0.000	1.07
		B	0.000	0.000	94.140	0.000	0.89
		C	0.000	0.000	20.750	0.000	0.34
T5	100.00-80.00	A	0.000	0.000	140.344	0.000	1.07
		B	0.000	0.000	94.140	0.000	0.89
		C	0.000	0.000	20.750	0.000	0.34
T6	80.00-60.00	A	0.000	0.000	142.960	0.000	1.08
		B	0.000	0.000	94.140	0.000	0.89
		C	0.000	0.000	20.750	0.000	0.34
T7	60.00-40.00	A	0.000	0.000	143.905	0.000	1.08
		B	0.000	0.000	94.140	0.000	0.89
		C	0.000	0.000	20.750	0.000	0.34
T8	40.00-20.00	A	0.000	0.000	144.220	0.000	1.08
		B	0.000	0.000	94.140	0.000	0.89
		C	0.000	0.000	20.750	0.000	0.34
T9	20.00-0.00	A	0.000	0.000	113.165	0.000	0.90
		B	0.000	0.000	80.605	0.000	0.84
		C	0.000	0.000	20.563	0.000	0.34

**Feed Line/Linear Appurtenances Section Areas - With Ice**

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> In Face ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup>	Weight K
T1	180.00-160.00	A	1.355	0.000	0.000	73.788	0.000	1.02
		B		0.000	0.000	20.662	0.000	0.47
		C		0.000	0.000	6.169	0.000	0.06
T2	160.00-140.00	A	1.338	0.000	0.000	133.618	0.000	1.79
		B		0.000	0.000	61.408	0.000	1.38
		C		0.000	0.000	36.806	0.000	0.75

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Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> In Face ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup>	Weight K
T3	140.00-120.00	A	1.319	0.000	0.000	188.554	0.000	2.72
		B		0.000	0.000	172.508	0.000	2.57
		C		0.000	0.000	36.578	0.000	0.74
T4	120.00-100.00	A	1.297	0.000	0.000	231.468	0.000	3.47
		B		0.000	0.000	183.195	0.000	2.65
		C		0.000	0.000	36.316	0.000	0.73
T5	100.00-80.00	A	1.271	0.000	0.000	235.702	0.000	3.48
		B		0.000	0.000	182.110	0.000	2.61
		C		0.000	0.000	36.006	0.000	0.72
T6	80.00-60.00	A	1.240	0.000	0.000	242.235	0.000	3.51
		B		0.000	0.000	180.783	0.000	2.56
		C		0.000	0.000	35.628	0.000	0.71
T7	60.00-40.00	A	1.199	0.000	0.000	243.938	0.000	3.47
		B		0.000	0.000	179.059	0.000	2.50
		C		0.000	0.000	35.135	0.000	0.69
T8	40.00-20.00	A	1.139	0.000	0.000	241.084	0.000	3.35
		B		0.000	0.000	176.553	0.000	2.42
		C		0.000	0.000	34.419	0.000	0.67
T9	20.00-0.00	A	1.021	0.000	0.000	181.359	0.000	2.47
		B		0.000	0.000	142.773	0.000	1.98
		C		0.000	0.000	31.789	0.000	0.62

### Feed Line Center of Pressure

Section	Elevation ft	CP <sub>X</sub> in	CP <sub>Z</sub> in	CP <sub>X</sub> Ice in	CP <sub>Z</sub> Ice in
T1	180.00-160.00	-1.1946	-13.3480	-1.6874	-9.5629
T2	160.00-140.00	5.6152	-16.7460	3.3952	-12.9234
T3	140.00-120.00	5.7019	-9.0575	4.5270	-6.5316
T4	120.00-100.00	1.2759	-7.9226	0.2998	-6.0814
T5	100.00-80.00	0.9104	-8.6823	-0.6370	-6.5749
T6	80.00-60.00	0.2134	-9.3922	-2.1619	-6.8726
T7	60.00-40.00	-0.1033	-10.0364	-3.2179	-7.1609
T8	40.00-20.00	-0.2070	-10.4692	-3.5364	-7.5349
T9	20.00-0.00	2.0541	-9.2735	-0.8495	-6.8320

### Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
T1	1	Feedline Ladder (A)	160.00 - 166.70	0.6000	0.6000
T1	2	Feedline Ladder (A)	160.00 - 166.70	0.6000	0.6000
T1	5	Safety Line 3/8	160.00 - 180.00	0.6000	0.6000
T1	7	Feedline Ladder (A)	160.00 - 173.30	0.6000	0.6000
T1	8	LDF7-50A(1 5/8)	160.00 - 170.00	0.6000	0.6000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
T1	9	LDF6-50A(1-1/4)	160.00 - 170.00	0.6000	0.6000
T1	12	LDF5-50A(7/8)	160.00 - 180.00	0.6000	0.6000
T1	14	LDF5-50A(7/8)	160.00 - 177.00	0.6000	0.6000
T2	1	Feedline Ladder (A.f)	140.00 - 160.00	0.6000	0.6000
T2	2	Feedline Ladder (A.f)	140.00 - 160.00	0.6000	0.6000
T2	3	Feedline Ladder (A.f)	140.00 - 160.00	0.6000	0.6000
T2	5	Safety Line 3/8	140.00 - 160.00	0.6000	0.6000
T2	7	Feedline Ladder (A.f)	140.00 - 160.00	0.6000	0.6000
T2	8	LDF7-50A(1 5/8)	140.00 - 160.00	0.6000	0.6000
T2	9	LDF6-50A(1-1/4)	140.00 - 160.00	0.6000	0.6000
T2	12	LDF5-50A(7/8)	140.00 - 160.00	0.6000	0.6000
T2	14	LDF5-50A(7/8)	140.00 - 160.00	0.6000	0.6000
T2	16	LDF6-50A(1-1/4)	140.00 - 150.00	0.6000	0.6000
T2	17	LDF6-50A(1-1/4)	140.00 - 150.00	0.6000	0.6000
T3	1	Feedline Ladder (A.f)	120.00 - 140.00	0.6000	0.6000
T3	2	Feedline Ladder (A.f)	120.00 - 140.00	0.6000	0.6000
T3	3	Feedline Ladder (A.f)	120.00 - 140.00	0.6000	0.6000
T3	4	Feedline Ladder (A.f)	120.00 - 131.00	0.6000	0.6000
T3	5	Safety Line 3/8	120.00 - 140.00	0.6000	0.6000
T3	7	Feedline Ladder (A.f)	120.00 - 140.00	0.6000	0.6000
T3	8	LDF7-50A(1 5/8)	120.00 - 140.00	0.6000	0.6000
T3	9	LDF6-50A(1-1/4)	120.00 - 140.00	0.6000	0.6000
T3	12	LDF5-50A(7/8)	120.00 - 140.00	0.6000	0.6000
T3	14	LDF5-50A(7/8)	120.00 - 140.00	0.6000	0.6000
T3	16	LDF6-50A(1-1/4)	120.00 - 140.00	0.6000	0.6000
T3	17	LDF6-50A(1-1/4)	120.00 - 140.00	0.6000	0.6000
T3	27	LDF6-50A(1-1/4)	120.00 - 140.00	0.6000	0.6000
T3	28	RLSS 8AWG DC(3/4)	120.00 - 140.00	0.6000	0.6000
T3	29	LDF2-50(3/8)	120.00 - 140.00	0.6000	0.6000
T3	31	LDF7-50A(1 5/8)	120.00 - 130.00	0.6000	0.6000
T3	32	LDF6-50A(1-1/4)	120.00 - 130.00	0.6000	0.6000

**tnxTower**

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
T4	1	Feedline Ladder (Af)	100.00 - 120.00	0.6000	0.6000
T4	2	Feedline Ladder (Af)	100.00 - 120.00	0.6000	0.6000
T4	3	Feedline Ladder (Af)	100.00 - 120.00	0.6000	0.6000
T4	4	Feedline Ladder (Af)	100.00 - 120.00	0.6000	0.6000
T4	5	Safety Line 3/8	100.00 - 120.00	0.6000	0.6000
T4	7	Feedline Ladder (Af)	100.00 - 120.00	0.6000	0.6000
T4	8	LDF7-50A(1 5/8)	100.00 - 120.00	0.6000	0.6000
T4	9	LDF6-50A(1-1/4)	100.00 - 120.00	0.6000	0.6000
T4	12	LDF5-50A(7/8)	100.00 - 120.00	0.6000	0.6000
T4	14	LDF5-50A(7/8)	100.00 - 120.00	0.6000	0.6000
T4	16	LDF6-50A(1-1/4)	100.00 - 120.00	0.6000	0.6000
T4	17	LDF6-50A(1-1/4)	100.00 - 120.00	0.6000	0.6000
T4	19	LDF5-50A(7/8)	100.00 - 120.00	0.6000	0.6000
T4	27	LDF6-50A(1-1/4)	100.00 - 120.00	0.6000	0.6000
T4	28	RLSS 8AWG DC(3/4)	100.00 - 120.00	0.6000	0.6000
T4	29	LDF2-50(3/8)	100.00 - 120.00	0.6000	0.6000
T4	31	LDF7-50A(1 5/8)	100.00 - 120.00	0.6000	0.6000
T4	32	LDF6-50A(1-1/4)	100.00 - 120.00	0.6000	0.6000
T5	1	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T5	2	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T5	3	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T5	4	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T5	5	Safety Line 3/8	80.00 - 100.00	0.6000	0.6000
T5	7	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T5	8	LDF7-50A(1 5/8)	80.00 - 100.00	0.6000	0.6000
T5	9	LDF6-50A(1-1/4)	80.00 - 100.00	0.6000	0.6000
T5	12	LDF5-50A(7/8)	80.00 - 100.00	0.6000	0.6000
T5	14	LDF5-50A(7/8)	80.00 - 100.00	0.6000	0.6000
T5	16	LDF6-50A(1-1/4)	80.00 - 100.00	0.6000	0.6000
T5	17	LDF6-50A(1-1/4)	80.00 - 100.00	0.6000	0.6000
T5	19	LDF5-50A(7/8)	80.00 - 100.00	0.6000	0.6000
T5	21	LDF5-50A(7/8)	80.00 - 90.00	0.6000	0.6000
T5	23	LDF5-50A(7/8)	80.00 - 86.00	0.6000	0.6000
T5	27	LDF6-50A(1-1/4)	80.00 - 100.00	0.6000	0.6000
T5	28	RLSS 8AWG DC(3/4)	80.00 - 100.00	0.6000	0.6000
T5	29	LDF2-50(3/8)	80.00 - 100.00	0.6000	0.6000
T5	31	LDF7-50A(1 5/8)	80.00 - 100.00	0.6000	0.6000
T5	32	LDF6-50A(1-1/4)	80.00 - 100.00	0.6000	0.6000
T6	1	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.6000
T6	2	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.6000
T6	3	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.6000
T6	4	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.6000
T6	5	Safety Line 3/8	60.00 - 80.00	0.6000	0.6000
T6	7	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.6000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
T6	8	LDF7-50A(1 5/8)	60.00 - 80.00	0.6000	0.6000
T6	9	LDF6-50A(1-1/4)	60.00 - 80.00	0.6000	0.6000
T6	12	LDF5-50A(7/8)	60.00 - 80.00	0.6000	0.6000
T6	14	LDF5-50A(7/8)	60.00 - 80.00	0.6000	0.6000
T6	16	LDF6-50A(1-1/4)	60.00 - 80.00	0.6000	0.6000
T6	17	LDF6-50A(1-1/4)	60.00 - 80.00	0.6000	0.6000
T6	19	LDF5-50A(7/8)	60.00 - 80.00	0.6000	0.6000
T6	21	LDF5-50A(7/8)	60.00 - 80.00	0.6000	0.6000
T6	23	LDF5-50A(7/8)	60.00 - 80.00	0.6000	0.6000
T6	27	LDF6-50A(1-1/4)	60.00 - 80.00	0.6000	0.6000
T6	28	RLSS 8AWG DC(3/4)	60.00 - 80.00	0.6000	0.6000
T6	29	LDF2-50(3/8)	60.00 - 80.00	0.6000	0.6000
T6	31	LDF7-50A(1 5/8)	60.00 - 80.00	0.6000	0.6000
T6	32	LDF6-50A(1-1/4)	60.00 - 80.00	0.6000	0.6000
T7	1	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T7	2	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T7	3	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T7	4	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T7	5	Safety Line 3/8	40.00 - 60.00	0.6000	0.6000
T7	7	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T7	8	LDF7-50A(1 5/8)	40.00 - 60.00	0.6000	0.6000
T7	9	LDF6-50A(1-1/4)	40.00 - 60.00	0.6000	0.6000
T7	12	LDF5-50A(7/8)	40.00 - 60.00	0.6000	0.6000
T7	14	LDF5-50A(7/8)	40.00 - 60.00	0.6000	0.6000
T7	16	LDF6-50A(1-1/4)	40.00 - 60.00	0.6000	0.6000
T7	17	LDF6-50A(1-1/4)	40.00 - 60.00	0.6000	0.6000
T7	19	LDF5-50A(7/8)	40.00 - 60.00	0.6000	0.6000
T7	21	LDF5-50A(7/8)	40.00 - 60.00	0.6000	0.6000
T7	23	LDF5-50A(7/8)	40.00 - 60.00	0.6000	0.6000
T7	25	LDF4-75A(1/2)	40.00 - 55.00	0.6000	0.6000
T7	27	LDF6-50A(1-1/4)	40.00 - 60.00	0.6000	0.6000
T7	28	RLSS 8AWG DC(3/4)	40.00 - 60.00	0.6000	0.6000
T7	29	LDF2-50(3/8)	40.00 - 60.00	0.6000	0.6000
T7	31	LDF7-50A(1 5/8)	40.00 - 60.00	0.6000	0.6000
T7	32	LDF6-50A(1-1/4)	40.00 - 60.00	0.6000	0.6000
T8	1	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T8	2	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T8	3	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T8	4	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T8	5	Safety Line 3/8	20.00 - 40.00	0.6000	0.6000
T8	7	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T8	8	LDF7-50A(1 5/8)	20.00 - 40.00	0.6000	0.6000
T8	9	LDF6-50A(1-1/4)	20.00 - 40.00	0.6000	0.6000
T8	12	LDF5-50A(7/8)	20.00 - 40.00	0.6000	0.6000
T8	14	LDF5-50A(7/8)	20.00 - 40.00	0.6000	0.6000
T8	16	LDF6-50A(1-1/4)	20.00 - 40.00	0.6000	0.6000
T8	17	LDF6-50A(1-1/4)	20.00 - 40.00	0.6000	0.6000
T8	19	LDF5-50A(7/8)	20.00 - 40.00	0.6000	0.6000
T8	21	LDF5-50A(7/8)	20.00 - 40.00	0.6000	0.6000
T8	23	LDF5-50A(7/8)	20.00 - 40.00	0.6000	0.6000
T8	25	LDF4-75A(1/2)	20.00 - 40.00	0.6000	0.6000
T8	27	LDF6-50A(1-1/4)	20.00 - 40.00	0.6000	0.6000
T8	28	RLSS 8A WG DC(3/4)	20.00 - 40.00	0.6000	0.6000
T8	29	LDF2-50(3/8)	20.00 - 40.00	0.6000	0.6000
T8	31	LDF7-50A(1 5/8)	20.00 - 40.00	0.6000	0.6000
T8	32	LDF6-50A(1-1/4)	20.00 - 40.00	0.6000	0.6000
T9	1	Feedline Ladder (Af)	0.00 - 20.00	0.6000	0.6000
T9	2	Feedline Ladder (Af)	0.00 - 20.00	0.6000	0.6000
T9	3	Feedline Ladder (Af)	0.00 - 20.00	0.6000	0.6000
T9	4	Feedline Ladder (Af)	0.00 - 20.00	0.6000	0.6000
T9	5	Safety Line 3/8	5.00 - 20.00	0.6000	0.6000
T9	7	Feedline Ladder (Af)	5.00 - 20.00	0.6000	0.6000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
T9	8	LDF7-50A(1 5/8)	5.00 - 20.00	0.6000	0.6000
T9	9	LDF6-50A(1-1/4)	5.00 - 20.00	0.6000	0.6000
T9	12	LDF5-50A(7/8)	5.00 - 20.00	0.6000	0.6000
T9	14	LDF5-50A(7/8)	5.00 - 20.00	0.6000	0.6000
T9	16	LDF6-50A(1-1/4)	5.00 - 20.00	0.6000	0.6000
T9	17	LDF6-50A(1-1/4)	5.00 - 20.00	0.6000	0.6000
T9	19	LDF5-50A(7/8)	5.00 - 20.00	0.6000	0.6000
T9	21	LDF5-50A(7/8)	5.00 - 20.00	0.6000	0.6000
T9	23	LDF5-50A(7/8)	5.00 - 20.00	0.6000	0.6000
T9	25	LDF4-75A(1/2)	5.00 - 20.00	0.6000	0.6000
T9	27	LDF6-50A(1-1/4)	5.00 - 20.00	0.6000	0.6000
T9	28	RLSS 8AWG DC(3/4)	5.00 - 20.00	0.6000	0.6000
T9	29	LDF2-50(3/8)	5.00 - 20.00	0.6000	0.6000
T9	31	LDF7-50A(1 5/8)	5.00 - 20.00	0.6000	0.6000
T9	32	LDF6-50A(1-1/4)	5.00 - 20.00	0.6000	0.6000

### Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C <sub>A,A</sub> Front	C <sub>A,A</sub> Side	Weight
			Horz Lateral	Vert					
2.375"x7' Safety Climb Extension	A	From Leg	0.00	0.0000	180.00	No Ice	1.72	1.72	0.02
			0.00			1/2" Ice	2.48	2.48	0.04
			3.50			1" Ice	2.96	2.96	0.05
* 12' 4-Bay Dipole	C	From Leg	0.00	0.0000	180.00	No Ice	4.00	4.00	0.06
			0.00			1/2" Ice	6.00	6.00	0.10
			6.00			1" Ice	8.00	8.00	0.14
3' x 2" Pipe Mount	C	From Leg	0.00	0.0000	180.00	No Ice	0.58	0.58	0.01
			0.00			1/2" Ice	0.77	0.77	0.02
			1.50			1" Ice	0.97	0.97	0.02
* 20' x 3" Omni	B	From Leg	6.00	0.0000	177.00	No Ice	6.00	6.00	0.07
			0.00			1/2" Ice	8.03	8.03	0.11
			10.00			1" Ice	10.08	10.08	0.17
Side Arm Mount [SO 303-1]	B	From Leg	3.00	0.0000	177.00	No Ice	2.24	5.32	0.12
			0.00			1/2" Ice	3.19	7.69	0.16
			0.00			1" Ice	4.14	10.06	0.20
Side Arm Mount [SO 303-1]	C	From Leg	3.00	0.0000	177.00	No Ice	2.24	5.32	0.12
			0.00			1/2" Ice	3.19	7.69	0.16
			0.00			1" Ice	4.14	10.06	0.20
* LNX-6514DS-A1M_TIA w/ Mount Pipe	A	From Leg	4.00	0.0000	169.00	No Ice	8.41	7.08	0.06
			0.00			1/2" Ice	8.97	8.27	0.13
			1.00			1" Ice	9.50	9.18	0.21
LNX-6514DS-A1M_TIA w/ Mount Pipe	B	From Leg	4.00	0.0000	169.00	No Ice	8.41	7.08	0.06
			0.00			1/2" Ice	8.97	8.27	0.13
			1.00			1" Ice	9.50	9.18	0.21
LNX-6514DS-A1M_TIA w/ Mount Pipe	C	From Leg	4.00	0.0000	169.00	No Ice	8.41	7.08	0.06
			0.00			1/2" Ice	8.97	8.27	0.13
			1.00			1" Ice	9.50	9.18	0.21

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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	Ice Type	C <sub>A</sub> A <sub>A</sub> Front ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Side ft <sup>2</sup>	Weight K
(2) MX06FRO660-03_TIA w/ Mount Pipe	A	From Leg	4.00 0.00 1.00	0.0000	169.00	No Ice 1/2" Ice 1" Ice	10.11 10.68 11.22	8.99 10.15 11.03	0.10 0.19 0.29
(2) MX06FRO660-03_TIA w/ Mount Pipe	B	From Leg	4.00 0.00 1.00	0.0000	169.00	No Ice 1/2" Ice 1" Ice	10.11 10.68 11.22	8.99 10.15 11.03	0.10 0.19 0.29
(2) MX06FRO660-03_TIA w/ Mount Pipe	C	From Leg	4.00 0.00 1.00	0.0000	169.00	No Ice 1/2" Ice 1" Ice	10.11 10.68 11.22	8.99 10.15 11.03	0.10 0.19 0.29
MT6407-77A w/ Mount Pipe	A	From Leg	4.00 0.00 1.00	0.0000	169.00	No Ice 1/2" Ice 1" Ice	4.91 5.26 5.61	2.68 3.14 3.62	0.10 0.14 0.18
MT6407-77A w/ Mount Pipe	B	From Leg	4.00 0.00 1.00	0.0000	169.00	No Ice 1/2" Ice 1" Ice	4.91 5.26 5.61	2.68 3.14 3.62	0.10 0.14 0.18
MT6407-77A w/ Mount Pipe	C	From Leg	4.00 0.00 1.00	0.0000	169.00	No Ice 1/2" Ice 1" Ice	4.91 5.26 5.61	2.68 3.14 3.62	0.10 0.14 0.18
B5/B13 RRH-BR04C	A	From Leg	4.00 0.00 1.00	0.0000	169.00	No Ice 1/2" Ice 1" Ice	1.88 2.05 2.22	1.01 1.14 1.28	0.07 0.09 0.11
B5/B13 RRH-BR04C	B	From Leg	4.00 0.00 1.00	0.0000	169.00	No Ice 1/2" Ice 1" Ice	1.88 2.05 2.22	1.01 1.14 1.28	0.07 0.09 0.11
B5/B13 RRH-BR04C	C	From Leg	4.00 0.00 1.00	0.0000	169.00	No Ice 1/2" Ice 1" Ice	1.88 2.05 2.22	1.01 1.14 1.28	0.07 0.09 0.11
RFV01U-D1A	A	From Leg	4.00 0.00 1.00	0.0000	169.00	No Ice 1/2" Ice 1" Ice	1.88 2.05 2.22	1.25 1.39 1.54	0.08 0.10 0.12
RFV01U-D1A	B	From Leg	4.00 0.00 1.00	0.0000	169.00	No Ice 1/2" Ice 1" Ice	1.88 2.05 2.22	1.25 1.39 1.54	0.08 0.10 0.12
RFV01U-D1A	C	From Leg	4.00 0.00 1.00	0.0000	169.00	No Ice 1/2" Ice 1" Ice	1.88 2.05 2.22	1.25 1.39 1.54	0.08 0.10 0.12
(2) BSF0020F3V1-1	B	From Leg	4.00 0.00 1.00	0.0000	169.00	No Ice 1/2" Ice 1" Ice	0.29 0.36 0.45	0.96 1.09 1.22	0.02 0.02 0.03
(2) RVZDC-6627-PF-48	A	From Leg	1.00 0.00 1.00	0.0000	169.00	No Ice 1/2" Ice 1" Ice	3.79 4.04 4.30	2.51 2.73 2.95	0.03 0.06 0.10
Sector Mount [SM 505-3]	C	None	1.00	0.0000	169.00	No Ice 1/2" Ice 1" Ice	34.86 49.79 64.72	34.86 49.79 64.72	1.73 2.32 2.91
* APXVSPP18-C-A20_TIA w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	150.00	No Ice 1/2" Ice 1" Ice	8.26 8.82 9.35	7.47 8.66 9.56	0.10 0.17 0.24
APXVSPP18-C-A20_TIA w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	150.00	No Ice 1/2" Ice 1" Ice	8.26 8.82 9.35	7.47 8.66 9.56	0.10 0.17 0.24
APXVSPP18-C-A20_TIA w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	150.00	No Ice 1/2" Ice 1" Ice	8.26 8.82 9.35	7.47 8.66 9.56	0.10 0.17 0.24
APXVTM14-C-120_TIA w/ Mount Pipe	A	From Leg	4.00 0.00	0.0000	150.00	No Ice 1/2" Ice	6.58 7.03	4.96 5.75	0.08 0.13

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	<b>Client</b>	Verizon	<b>Designed by</b>	PDH

Description	Face or Leg	Offset Type	Offsets:			Azimuth Adjustment	Placement	C <sub>A</sub> A <sub>Front</sub>	C <sub>A</sub> A <sub>Side</sub>	Weight	
			Horz	Vert	Lateral						°
			ft	ft	ft						
APXVTM14-C-120_TIA w/ Mount Pipe	B	From Leg	0.00			0.0000	150.00	1" Ice	7.47	6.47	0.19
			4.00					No Ice	6.58	4.96	0.08
			0.00					1/2" Ice	7.03	5.75	0.13
APXVTM14-C-120_TIA w/ Mount Pipe	C	From Leg	0.00			0.0000	150.00	1" Ice	7.47	6.47	0.19
			4.00					No Ice	6.58	4.96	0.08
			0.00					1/2" Ice	7.03	5.75	0.13
(3) RRUS 11	A	From Leg	0.00			0.0000	150.00	1" Ice	7.47	6.47	0.19
			4.00					No Ice	2.78	1.19	0.05
			0.00					1/2" Ice	2.99	1.33	0.07
(3) RRUS 11	B	From Leg	0.00			0.0000	150.00	1" Ice	3.21	1.49	0.09
			4.00					No Ice	2.78	1.19	0.05
			0.00					1/2" Ice	2.99	1.33	0.07
(3) RRUS 11	C	From Leg	0.00			0.0000	150.00	1" Ice	3.21	1.49	0.09
			4.00					No Ice	2.78	1.19	0.05
			0.00					1/2" Ice	2.99	1.33	0.07
Sector Mount [SM 504-3]	C	None	0.00			0.0000	150.00	1" Ice	3.21	1.49	0.09
								No Ice	34.25	34.25	1.71
								1/2" Ice	48.98	48.98	2.29
* HPA65R-BU6AA_TIA w/ Mount Pipe	A	From Leg	0.00			0.0000	140.00	1" Ice	63.71	63.71	2.86
			4.00					No Ice	8.09	7.19	0.08
			0.00					1/2" Ice	8.64	8.36	0.15
HPA65R-BU6AA_TIA w/ Mount Pipe	B	From Leg	0.00			0.0000	140.00	1" Ice	9.16	9.24	0.23
			4.00					No Ice	8.09	7.19	0.08
			0.00					1/2" Ice	8.64	8.36	0.15
HPA65R-BU6AA_TIA w/ Mount Pipe	C	From Leg	0.00			0.0000	140.00	1" Ice	9.16	9.24	0.23
			4.00					No Ice	8.09	7.19	0.08
			0.00					1/2" Ice	8.64	8.36	0.15
80010965_TIA w/ Mount Pipe	A	From Leg	0.00			0.0000	140.00	1" Ice	9.16	9.24	0.23
			4.00					No Ice	14.05	7.63	0.14
			0.00					1/2" Ice	14.69	8.90	0.23
80010965_TIA w/ Mount Pipe	B	From Leg	0.00			0.0000	140.00	1" Ice	15.30	9.96	0.34
			4.00					No Ice	14.05	7.63	0.14
			0.00					1/2" Ice	14.69	8.90	0.23
80010965_TIA w/ Mount Pipe	C	From Leg	0.00			0.0000	140.00	1" Ice	15.30	9.96	0.34
			4.00					No Ice	14.05	7.63	0.14
			0.00					1/2" Ice	14.69	8.90	0.23
7770.00 w/ Mount Pipe	A	From Leg	0.00			0.0000	140.00	1" Ice	15.30	9.96	0.34
			4.00					No Ice	5.75	4.25	0.06
			0.00					1/2" Ice	6.18	5.01	0.10
7770.00 w/ Mount Pipe	B	From Leg	0.00			0.0000	140.00	1" Ice	6.61	5.71	0.16
			4.00					No Ice	5.75	4.25	0.06
			0.00					1/2" Ice	6.18	5.01	0.10
7770.00 w/ Mount Pipe	C	From Leg	0.00			0.0000	140.00	1" Ice	6.61	5.71	0.16
			4.00					No Ice	5.75	4.25	0.06
			0.00					1/2" Ice	6.18	5.01	0.10
(2) RRUS 11	A	From Leg	0.00			0.0000	140.00	1" Ice	6.61	5.71	0.16
			4.00					No Ice	2.78	1.19	0.05
			0.00					1/2" Ice	2.99	1.33	0.07
(2) RRUS 11	B	From Leg	0.00			0.0000	140.00	1" Ice	3.21	1.49	0.09
			4.00					No Ice	2.78	1.19	0.05
			0.00					1/2" Ice	2.99	1.33	0.07
(2) RRUS 11	C	From Leg	0.00			0.0000	140.00	1" Ice	3.21	1.49	0.09
			4.00					No Ice	2.78	1.19	0.05
			0.00					1/2" Ice	2.99	1.33	0.07
(2) LGP1720X	A	From Leg	0.00			0.0000	140.00	1" Ice	3.21	1.49	0.09
			4.00					No Ice	1.67	0.45	0.03





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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C <sub>A</sub> A <sub>1</sub> Front ft <sup>2</sup>	C <sub>A</sub> A <sub>1</sub> Side ft <sup>2</sup>	Weight K
* 4' x 1 3/4" Omni	B	From Leg	6.00 0.00 2.00	0.0000	120.00	No Ice 1/2" Ice 1" Ice	0.79 1.03 1.28	0.79 1.03 1.28	0.02 0.03 0.04
Side Arm Mount [SO 303-1]	B	From Leg	3.00 0.00 0.00	0.0000	120.00	No Ice 1/2" Ice 1" Ice	2.24 3.19 4.14	5.32 7.69 10.06	0.12 0.16 0.20
* 1'x1' Junction Box	B	None		0.0000	108.00	No Ice 1/2" Ice 1" Ice	1.20 1.34 1.48	0.32 0.40 0.49	0.05 0.06 0.07
* 10' 4-Bay Dipole	C	From Leg	6.00 0.00 5.00	0.0000	90.00	No Ice 1/2" Ice 1" Ice	0.79 1.03 1.27	0.79 1.03 1.27	0.02 0.03 0.04
Side Arm Mount [SO 303-1]	C	From Leg	3.00 0.00 0.00	0.0000	90.00	No Ice 1/2" Ice 1" Ice	2.24 3.19 4.14	5.32 7.69 10.06	0.12 0.16 0.20
* 4' x 1 3/4" Omni	B	From Leg	6.00 0.00 2.00	0.0000	86.00	No Ice 1/2" Ice 1" Ice	0.79 1.03 1.28	0.79 1.03 1.28	0.02 0.03 0.04
Side Arm Mount [SO 303-1]	B	From Leg	3.00 0.00 0.00	0.0000	86.00	No Ice 1/2" Ice 1" Ice	2.24 3.19 4.14	5.32 7.69 10.06	0.12 0.16 0.20
* GPS	C	From Leg	3.00 0.00 0.00	0.0000	55.00	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
Side Arm Mount [SO 203-1]	B	From Leg	1.50 0.00 0.00	0.0000	55.00	No Ice 1/2" Ice 1" Ice	2.96 4.10 5.24	3.36 4.68 6.00	0.13 0.15 0.18

## Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice

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Comb. No.	Description
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

### Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft	
T1	180 - 160	Leg	Max Tension	15	2.54	0.01	-0.94	
			Max. Compression	2	-6.16	0.00	-0.57	
			Max. Mx	20	-1.80	-1.58	-0.01	
			Max. My	14	-2.58	-0.03	1.52	
			Max. Vy	8	1.04	-0.93	-0.00	
			Max. Vx	14	1.00	0.01	-0.95	
		Diagonal	Max Tension	25	4.64	0.00	0.00	
			Max. Compression	24	-4.71	0.00	0.00	
			Max. Mx	26	-0.07	0.05	0.00	
			Max. Vy	26	-0.02	0.00	0.00	
			Horizontal	Max Tension	14	2.63	-0.01	0.00
				Max. Compression	3	-2.59	0.00	0.00
		Max. Mx		29	-0.17	-0.03	-0.00	
		Max. My		22	-0.78	-0.01	-0.01	
		Max. Vy		29	-0.03	-0.03	-0.00	
		Max. Vx		22	-0.00	0.00	0.00	

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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft	
T2	160 - 140	Top Girt	Max Tension	7	0.22	0.00	0.00	
			Max. Compression	18	-0.22	-0.01	-0.00	
			Max. Mx	33	-0.03	-0.02	-0.00	
			Max. My	2	0.09	-0.01	0.00	
			Max. Vy	33	-0.02	-0.02	-0.00	
			Max. Vx	2	0.00	0.00	0.00	
		Inner Bracing	Max Tension	10	0.00	0.00	0.00	
			Max. Compression	23	-0.00	0.00	0.00	
			Max. Mx	26	0.00	-0.02	0.00	
			Max. Vy	26	0.02	0.00	0.00	
			Leg	Max Tension	7	19.14	1.10	0.01
				Max. Compression	10	-27.01	-1.09	-0.01
		Max. Mx		22	17.63	1.12	0.01	
		Max. My		20	-4.19	-0.05	1.06	
		Max. Vy		22	3.13	-0.70	-0.05	
		Max. Vx		4	1.37	-0.04	-0.22	
		Diagonal	Max Tension	13	6.32	0.00	0.00	
			Max. Compression	12	-6.43	0.00	0.00	
			Max. Mx	26	-0.11	0.07	0.00	
			Max. Vy	26	0.03	0.00	0.00	
			Horizontal	Max Tension	13	4.00	-0.01	0.00
				Max. Compression	12	-4.02	-0.01	0.00
Max. Mx	29	-0.16		-0.03	-0.00			
Max. My	22	-0.85		-0.02	-0.01			
Max. Vy	29	-0.03		-0.03	-0.00			
Max. Vx	22	-0.00		-0.02	-0.01			
Inner Bracing	Max Tension	11	0.00	0.00	0.00			
	Max. Compression	22	-0.00	0.00	0.00			
	Max. Mx	26	-0.00	-0.03	0.00			
	Max. Vy	26	0.02	0.00	0.00			
	T3	140 - 120	Leg	Max Tension	7	44.77	-1.00	-0.00
				Max. Compression	10	-59.29	-1.28	-0.04
Max. Mx				10	-37.10	1.65	0.11	
Max. My				20	-7.92	-0.03	0.90	
Max. Vy				22	6.64	-1.65	-0.11	
Max. Vx				20	3.52	-0.00	-0.81	
Diagonal			Max Tension	13	9.24	0.00	0.00	
			Max. Compression	12	-9.37	0.00	0.00	
			Max. Mx	26	-0.15	0.09	0.00	
			Max. Vy	26	-0.04	0.00	0.00	
			Horizontal	Max Tension	12	6.49	-0.02	0.00
				Max. Compression	13	-6.47	-0.01	0.00
Max. Mx	29	-0.11		-0.04	-0.00			
Max. My	22	-0.87		-0.02	-0.01			
Max. Vy	29	-0.03		-0.04	-0.00			
Max. Vx	10	0.00		0.00	0.00			
Inner Bracing	Max Tension	11	0.00	0.00	0.00			
	Max. Compression	22	-0.01	0.00	0.00			
	Max. Mx	26	-0.00	-0.04	0.00			
	Max. Vy	26	0.03	0.00	0.00			
	T4	120 - 100	Leg	Max Tension	7	76.27	-0.85	0.00
				Max. Compression	10	-94.78	-1.16	-0.04
Max. Mx				10	-71.91	2.59	0.12	
Max. My				8	-9.14	0.01	1.38	
Max. Vy				18	-9.31	2.59	-0.01	
Max. Vx				20	4.00	0.00	-1.38	
Diagonal			Max Tension	13	9.35	0.00	0.00	
			Max. Compression	12	-9.51	0.00	0.00	
			Max. Mx	26	-0.20	0.13	0.00	
			Max. Vy	26	-0.05	0.00	0.00	
			Horizontal	Max Tension	20	7.09	-0.03	-0.00

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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft	
T5	100 - 80	Inner Bracing	Max. Compression	21	-7.00	-0.02	-0.00	
			Max. Mx	29	-0.00	-0.07	-0.00	
			Max. My	22	0.09	-0.04	-0.01	
			Max. Vy	29	0.05	-0.07	-0.00	
			Max. Vx	22	-0.00	0.00	0.00	
			Max Tension	19	0.00	0.00	0.00	
			Max. Compression	22	-0.01	0.00	0.00	
			Max. Mx	26	-0.01	-0.05	0.00	
			Max. Vy	26	0.03	0.00	0.00	
			Max Tension	23	101.66	-0.78	-0.02	
			Max. Compression	10	-124.15	-1.59	-0.05	
			Max. Mx	10	-106.91	3.25	0.10	
		Leg	Max. My	8	-11.56	0.01	1.97	
			Max. Vy	10	-10.58	3.25	0.10	
			Max. Vx	20	4.67	-0.00	-1.97	
			Max Tension	21	12.03	0.00	0.00	
			Max. Compression	20	-12.28	0.00	0.00	
			Max. Mx	26	-0.20	0.24	0.00	
			Max. Vy	26	-0.07	0.00	0.00	
			Horizontal	Max Tension	20	7.94	-0.04	-0.00
				Max. Compression	21	-7.88	-0.03	-0.00
				Max. Mx	29	-0.12	-0.09	-0.00
				Max. My	22	-0.77	-0.05	-0.01
				Max. Vy	29	0.05	-0.09	-0.00
Max. Vx	22	-0.00		-0.05	-0.01			
Inner Bracing	Max Tension	11	0.00	0.00	0.00			
	Max. Compression	37	-0.01	0.00	0.00			
	Max. Mx	26	-0.01	-0.07	0.00			
	Max. Vy	26	0.03	0.00	0.00			
	Max Tension	23	131.50	-0.76	-0.00			
	Max. Compression	10	-158.89	-1.54	-0.03			
T6	80 - 60	Leg	Max. Mx	22	113.86	-3.41	-0.06	
			Max. My	8	-14.17	0.01	1.94	
			Max. Vy	10	-11.92	3.38	0.06	
			Max. Vx	20	5.28	-0.02	-1.94	
			Max Tension	21	12.49	0.00	0.00	
			Max. Compression	20	-12.79	0.00	0.00	
		Diagonal	Max. Mx	26	-0.26	0.28	0.00	
			Max. Vy	26	-0.08	0.00	0.00	
			Max Tension	20	8.82	-0.05	-0.00	
			Max. Compression	21	-8.72	-0.04	-0.00	
			Max. Mx	29	-0.05	-0.11	-0.00	
			Max. My	22	-0.24	-0.05	-0.01	
Horizontal	Max. Vy	29	-0.06	-0.11	-0.00			
	Max. Vx	22	0.00	-0.05	-0.01			
	Max Tension	11	0.00	0.00	0.00			
	Max. Compression	37	-0.01	0.00	0.00			
	Max. Mx	26	-0.01	-0.11	0.00			
	Max. Vy	26	0.05	0.00	0.00			
T7	60 - 40	Leg	Max Tension	23	160.57	-0.69	-0.00	
			Max. Compression	10	-193.38	-1.12	-0.03	
			Max. Mx	22	142.78	-3.92	-0.07	
			Max. My	8	-17.19	0.01	2.54	
			Max. Vy	10	-13.07	3.91	0.07	
			Max. Vx	20	5.81	-0.01	-2.54	
		Diagonal	Max Tension	21	12.84	0.00	0.00	
			Max. Compression	20	-13.24	0.00	0.00	
			Max. Mx	26	-0.35	0.32	0.00	
			Max. Vy	26	-0.09	0.00	0.00	
			Max Tension	20	9.60	-0.10	-0.00	
			Max. Compression	21	-9.44	-0.08	-0.00	

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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
T8	40 - 20	Inner Bracing	Max. Mx	29	0.02	-0.18	-0.00
			Max. My	22	-0.74	-0.11	-0.02
			Max. Vy	29	-0.09	-0.18	-0.00
			Max. Vx	22	-0.00	0.00	0.00
			Max Tension	11	0.00	0.00	0.00
			Max. Compression	37	-0.01	0.00	0.00
			Max. Mx	26	-0.01	-0.16	0.00
			Max. Vy	26	0.06	0.00	0.00
			Max Tension	23	188.73	-1.11	-0.00
			Max. Compression	10	-227.35	-0.59	-0.01
		Leg	Max. Mx	10	-210.45	4.84	0.06
			Max. My	8	-20.39	0.03	2.66
			Max. Vy	10	-14.28	4.84	0.06
			Max. Vx	20	6.20	0.01	-2.66
			Max Tension	21	13.19	0.00	0.00
			Max. Compression	20	-13.65	0.00	0.00
			Max. Mx	26	-0.43	0.36	0.00
			Max. Vy	26	-0.10	0.00	0.00
			Max Tension	20	10.26	-0.12	-0.00
			Max. Compression	21	-10.03	-0.09	-0.00
		Diagonal	Max. Mx	29	0.16	-0.21	-0.00
			Max. My	22	-0.14	-0.13	-0.02
			Max. Vy	29	-0.09	-0.21	-0.00
Max. Vx	22		-0.00	0.00	0.00		
Max Tension	1		0.00	0.00	0.00		
Max. Compression	37		-0.01	0.00	0.00		
Max. Mx	26		-0.01	-0.25	0.00		
Max. Vy	26		0.09	0.00	0.00		
Max Tension	23		215.70	-1.01	0.00		
Max. Compression	10		-260.75	0.00	-0.00		
Horizontal	Max. Mx	10	-244.03	5.76	0.08		
	Max. My	8	-24.01	0.05	4.07		
	Max. Vy	10	-15.21	5.76	0.08		
	Max. Vx	20	6.57	0.04	-4.07		
	Max Tension	21	13.53	0.00	0.00		
	Max. Compression	20	-14.18	0.00	0.00		
	Max. Mx	26	-0.53	0.49	0.00		
	Max. Vy	26	-0.12	0.00	0.00		
	Max Tension	20	10.93	-0.19	-0.00		
	Max. Compression	21	-10.59	-0.13	-0.00		
Inner Bracing	Max. Mx	29	-0.10	-0.28	-0.01		
	Max. My	22	-0.18	-0.21	-0.03		
	Max. Vy	29	0.12	-0.28	-0.01		
	Max. Vx	22	0.00	-0.21	-0.03		
	Max Tension	1	0.00	0.00	0.00		
	Max. Compression	37	-0.01	0.00	0.00		
	Max. Mx	26	-0.01	-0.28	0.00		
	Max. Vy	26	0.09	0.00	0.00		

### Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Leg C	Max. Vert	18	270.34	28.07	-16.21
	Max. H <sub>x</sub>	18	270.34	28.07	-16.21
	Max. H <sub>z</sub>	7	-225.79	-24.98	14.42

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Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Leg B	Min. Vert	7	-225.79	-24.98	14.42
	Min. H <sub>x</sub>	7	-225.79	-24.98	14.42
	Min. H <sub>z</sub>	18	270.34	28.07	-16.21
	Max. Vert	10	275.66	-28.50	-16.66
	Max. H <sub>x</sub>	23	-228.26	25.38	14.83
	Max. H <sub>z</sub>	23	-228.26	25.38	14.83
	Min. Vert	23	-228.26	25.38	14.83
Leg A	Min. H <sub>x</sub>	10	275.66	-28.50	-16.66
	Min. H <sub>z</sub>	10	275.66	-28.50	-16.66
	Max. Vert	2	259.35	0.22	30.39
	Max. H <sub>x</sub>	20	27.04	6.69	2.04
	Max. H <sub>z</sub>	2	259.35	0.22	30.39
	Min. Vert	15	-211.39	-0.20	-26.76
	Min. H <sub>x</sub>	9	20.93	-6.66	1.59
Min. H <sub>z</sub>	15	-211.39	-0.20	-26.76	

### Tower Mast Reaction Summary

Load Combination	Vertical K	Shear <sub>x</sub> K	Shear <sub>z</sub> K	Overturning Moment, M <sub>x</sub> kip-ft	Overturning Moment, M <sub>z</sub> kip-ft	Torque kip-ft
Dead Only	66.62	0.00	0.00	-13.94	-17.20	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	79.94	0.06	-49.98	-5104.73	-28.79	9.32
0.9 Dead+1.0 Wind 0 deg - No Ice	59.96	0.06	-49.98	-5100.55	-23.63	9.32
1.2 Dead+1.0 Wind 30 deg - No Ice	79.94	25.51	-44.43	-4503.88	-2590.90	39.95
0.9 Dead+1.0 Wind 30 deg - No Ice	59.96	25.51	-44.43	-4499.70	-2585.74	39.95
1.2 Dead+1.0 Wind 60 deg - No Ice	79.94	46.46	-27.04	-2725.02	-4659.91	0.48
0.9 Dead+1.0 Wind 60 deg - No Ice	59.96	46.46	-27.04	-2720.84	-4654.75	0.48
1.2 Dead+1.0 Wind 90 deg - No Ice	79.94	58.11	-0.06	-24.88	-5738.33	-30.67
0.9 Dead+1.0 Wind 90 deg - No Ice	59.96	58.11	-0.06	-20.69	-5733.17	-30.67
1.2 Dead+1.0 Wind 120 deg - No Ice	79.94	47.38	27.50	2724.98	-4734.09	-6.92
0.9 Dead+1.0 Wind 120 deg - No Ice	59.96	47.38	27.50	2729.16	-4728.92	-6.92
1.2 Dead+1.0 Wind 150 deg - No Ice	79.94	25.73	44.94	4535.35	-2618.97	18.16
0.9 Dead+1.0 Wind 150 deg - No Ice	59.96	25.73	44.94	4539.53	-2613.81	18.16
1.2 Dead+1.0 Wind 180 deg - No Ice	79.94	-0.06	49.98	5071.27	-12.50	-9.32
0.9 Dead+1.0 Wind 180 deg - No Ice	59.96	-0.06	49.98	5075.45	-7.34	-9.32
1.2 Dead+1.0 Wind 210 deg - No Ice	79.94	-25.51	44.43	4470.42	2549.61	-39.95
0.9 Dead+1.0 Wind 210 deg - No Ice	59.96	-25.51	44.43	4474.60	2554.77	-39.95
1.2 Dead+1.0 Wind 240 deg - No Ice	79.94	-46.46	27.04	2691.56	4618.62	-0.48
0.9 Dead+1.0 Wind 240 deg - No Ice	59.96	-46.46	27.04	2695.75	4623.79	-0.48

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Load Combination	Vertical K	Shear <sub>x</sub> K	Shear <sub>y</sub> K	Overturing Moment, M <sub>x</sub> kip-ft	Overturing Moment, M <sub>y</sub> kip-ft	Torque kip-ft
No Ice						
1.2 Dead+1.0 Wind 270 deg - No Ice	79.94	-58.11	0.06	-8.58	5697.05	30.67
0.9 Dead+1.0 Wind 270 deg - No Ice	59.96	-58.11	0.06	-4.40	5702.21	30.67
1.2 Dead+1.0 Wind 300 deg - No Ice	79.94	-47.38	-27.50	-2758.44	4692.80	6.92
0.9 Dead+1.0 Wind 300 deg - No Ice	59.96	-47.38	-27.50	-2754.26	4697.96	6.92
1.2 Dead+1.0 Wind 330 deg - No Ice	79.94	-25.73	-44.94	-4568.80	2577.69	-18.16
0.9 Dead+1.0 Wind 330 deg - No Ice	59.96	-25.73	-44.94	-4564.62	2582.85	-18.16
1.2 Dead+1.0 Ice+1.0 Temp	153.68	0.00	0.00	-37.34	-21.06	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	153.68	0.02	-12.27	-1285.87	-23.25	0.96
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	153.68	6.29	-10.96	-1142.69	-653.66	6.83
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	153.68	11.58	-6.75	-709.31	-1170.92	2.18
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	153.68	13.79	-0.02	-39.52	-1386.06	-4.59
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	153.68	11.61	6.74	636.83	-1179.10	-1.44
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	153.68	6.28	10.99	1076.19	-655.86	3.63
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	153.68	-0.02	12.27	1211.20	-18.88	-0.96
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	153.68	-6.29	10.96	1068.01	611.53	-6.83
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	153.68	-11.58	6.75	634.63	1128.79	-2.18
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	153.68	-13.79	0.02	-35.15	1343.93	4.59
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	153.68	-11.61	-6.74	-711.51	1136.97	1.44
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	153.68	-6.28	-10.99	-1150.87	613.73	-3.63
Dead+Wind 0 deg - Service	66.62	0.01	-10.92	-1110.52	-18.91	1.95
Dead+Wind 30 deg - Service	66.62	5.57	-9.70	-980.56	-571.00	8.37
Dead+Wind 60 deg - Service	66.62	10.13	-5.89	-596.70	-1015.73	0.09
Dead+Wind 90 deg - Service	66.62	12.63	-0.01	-15.65	-1245.88	-6.44
Dead+Wind 120 deg - Service	66.62	10.32	5.99	575.82	-1031.29	-1.45
Dead+Wind 150 deg - Service	66.62	5.62	9.81	966.30	-576.89	3.81
Dead+Wind 180 deg - Service	66.62	-0.01	10.92	1082.64	-15.49	-1.95
Dead+Wind 210 deg - Service	66.62	-5.57	9.70	952.68	536.59	-8.37
Dead+Wind 240 deg - Service	66.62	-10.13	5.89	568.81	981.33	-0.09
Dead+Wind 270 deg - Service	66.62	-12.63	0.01	-12.23	1211.47	6.44
Dead+Wind 300 deg - Service	66.62	-10.32	-5.99	-603.71	996.89	1.45
Dead+Wind 330 deg - Service	66.62	-5.62	-9.81	-994.18	542.48	-3.81

## Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.00	-66.62	0.00	0.00	66.62	0.00	0.000%
2	0.06	-79.94	-49.98	-0.06	79.94	49.98	0.000%



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Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
3	0.06	-59.96	-49.98	-0.06	59.96	49.98	0.000%
4	25.51	-79.94	-44.43	-25.51	79.94	44.43	0.000%
5	25.51	-59.96	-44.43	-25.51	59.96	44.43	0.000%
6	46.46	-79.94	-27.04	-46.46	79.94	27.04	0.000%
7	46.46	-59.96	-27.04	-46.46	59.96	27.04	0.000%
8	58.11	-79.94	-0.06	-58.11	79.94	0.06	0.000%
9	58.11	-59.96	-0.06	-58.11	59.96	0.06	0.000%
10	47.38	-79.94	27.50	-47.38	79.94	-27.50	0.000%
11	47.38	-59.96	27.50	-47.38	59.96	-27.50	0.000%
12	25.73	-79.94	44.94	-25.73	79.94	-44.94	0.000%
13	25.73	-59.96	44.94	-25.73	59.96	-44.94	0.000%
14	-0.06	-79.94	49.98	0.06	79.94	-49.98	0.000%
15	-0.06	-59.96	49.98	0.06	59.96	-49.98	0.000%
16	-25.51	-79.94	44.43	25.51	79.94	-44.43	0.000%
17	-25.51	-59.96	44.43	25.51	59.96	-44.43	0.000%
18	-46.46	-79.94	27.04	46.46	79.94	-27.04	0.000%
19	-46.46	-59.96	27.04	46.46	59.96	-27.04	0.000%
20	-58.11	-79.94	0.06	58.11	79.94	-0.06	0.000%
21	-58.11	-59.96	0.06	58.11	59.96	-0.06	0.000%
22	-47.38	-79.94	-27.50	47.38	79.94	27.50	0.000%
23	-47.38	-59.96	-27.50	47.38	59.96	27.50	0.000%
24	-25.73	-79.94	-44.94	25.73	79.94	44.94	0.000%
25	-25.73	-59.96	-44.94	25.73	59.96	44.94	0.000%
26	0.00	-153.68	0.00	0.00	153.68	0.00	0.000%
27	0.02	-153.68	-12.27	-0.02	153.68	12.27	0.000%
28	6.29	-153.68	-10.96	-6.29	153.68	10.96	0.000%
29	11.58	-153.68	-6.75	-11.58	153.68	6.75	0.000%
30	13.79	-153.68	-0.02	-13.79	153.68	0.02	0.000%
31	11.61	-153.68	6.74	-11.61	153.68	-6.74	0.000%
32	6.28	-153.68	10.99	-6.28	153.68	-10.99	0.000%
33	-0.02	-153.68	12.27	0.02	153.68	-12.27	0.000%
34	-6.29	-153.68	10.96	6.29	153.68	-10.96	0.000%
35	-11.58	-153.68	6.75	11.58	153.68	-6.75	0.000%
36	-13.79	-153.68	0.02	13.79	153.68	-0.02	0.000%
37	-11.61	-153.68	-6.74	11.61	153.68	6.74	0.000%
38	-6.28	-153.68	-10.99	6.28	153.68	10.99	0.000%
39	0.01	-66.62	-10.92	-0.01	66.62	10.92	0.000%
40	5.57	-66.62	-9.70	-5.57	66.62	9.70	0.000%
41	10.13	-66.62	-5.89	-10.13	66.62	5.89	0.000%
42	12.63	-66.62	-0.01	-12.63	66.62	0.01	0.000%
43	10.32	-66.62	5.99	-10.32	66.62	-5.99	0.000%
44	5.62	-66.62	9.81	-5.62	66.62	-9.81	0.000%
45	-0.01	-66.62	10.92	0.01	66.62	-10.92	0.000%
46	-5.57	-66.62	9.70	5.57	66.62	-9.70	0.000%
47	-10.13	-66.62	5.89	10.13	66.62	-5.89	0.000%
48	-12.63	-66.62	0.01	12.63	66.62	-0.01	0.000%
49	-10.32	-66.62	-5.99	10.32	66.62	5.99	0.000%
50	-5.62	-66.62	-9.81	5.62	66.62	9.81	0.000%

### Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	180 - 160	1.668	42	0.0694	0.0202
T2	160 - 140	1.371	42	0.0679	0.0190

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Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T3	140 - 120	1.082	42	0.0628	0.0170
T4	120 - 100	0.807	42	0.0553	0.0146
T5	100 - 80	0.573	42	0.0440	0.0115
T6	80 - 60	0.386	42	0.0345	0.0089
T7	60 - 40	0.233	42	0.0262	0.0061
T8	40 - 20	0.119	42	0.0167	0.0038
T9	20 - 0	0.039	48	0.0087	0.0016

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

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
180.00	2.375"x7' Safety Climb Extension	42	1.668	0.0694	0.0202	Inf
177.00	20' x 3" Omni	42	1.623	0.0693	0.0201	Inf
169.00	LNx-6514DS-A1M_TIA w/ Mount Pipe	42	1.504	0.0689	0.0196	671401
150.00	APXVSPPI8-C-A20_TIA w/ Mount Pipe	42	1.225	0.0657	0.0181	518287
140.00	HPA65R-BU6AA_TIA w/ Mount Pipe	42	1.082	0.0628	0.0170	619482
130.00	APXVAARR24_43-U-NA20_TIA w/ Mount Pipe	42	0.941	0.0594	0.0159	179949
120.00	4' x 1 3/4" Omni	42	0.807	0.0553	0.0146	103226
108.00	1'x1' Junction Box	42	0.660	0.0486	0.0128	93759
90.00	10' 4-Bay Dipole	42	0.475	0.0389	0.0102	125919
86.00	4' x 1 3/4" Omni	42	0.439	0.0371	0.0097	149705
55.00	GPS	42	0.201	0.0238	0.0055	111989

### Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	180 - 160	7.703	8	0.3180	0.0966
T2	160 - 140	6.336	8	0.3116	0.0907
T3	140 - 120	5.006	8	0.2888	0.0812
T4	120 - 100	3.732	8	0.2547	0.0697
T5	100 - 80	2.649	8	0.2033	0.0551
T6	80 - 60	1.786	8	0.1593	0.0423
T7	60 - 40	1.074	8	0.1207	0.0292
T8	40 - 20	0.551	8	0.0769	0.0182
T9	20 - 0	0.179	20	0.0400	0.0077

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

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
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Elevation	Appurtenance	Gov. Load Comb.	Deflection	Tilt	Twist	Radius of Curvature
ft			in	°	°	ft
180.00	2.375"x7" Safety Climb Extension	8	7.703	0.3180	0.0966	349244
177.00	20' x 3" Omni	8	7.497	0.3176	0.0959	349244
169.00	LNX-6514DS-A1M_TIA w/ Mount Pipe	8	6.948	0.3160	0.0937	158747
150.00	APXVSP18-C-A20_TIA w/ Mount Pipe	8	5.667	0.3019	0.0863	130445
140.00	HPA65R-BU6AA_TIA w/ Mount Pipe	8	5.006	0.2888	0.0812	162713
130.00	APXVAARR24_43-U-NA20_TIA w/ Mount Pipe	8	4.354	0.2738	0.0758	39686
120.00	4' x 1 3/4" Omni	8	3.732	0.2547	0.0697	22238
108.00	1'x1' Junction Box	8	3.054	0.2245	0.0610	20263
90.00	10' 4-Bay Dipole	8	2.195	0.1798	0.0486	27065
86.00	4' x 1 3/4" Omni	8	2.027	0.1713	0.0461	32139
55.00	GPS	8	0.926	0.1099	0.0263	24131

### Bolt Design Data

Section No.	Elevation	Component Type	Bolt Grade	Bolt Size	Number Of Bolts	Maximum Load per Bolt	Allowable Load per Bolt	Ratio Load Allowable	Allowable Ratio	Criteria	
	ft			in		K	K				
T1	180	Leg	A325N	0.8750	4	0.63	41.56	0.015	✓	1	Bolt Tension
		Diagonal	A325N	0.6250	3	1.57	13.81	0.114	✓	1	Bolt Shear
		Horizontal	A325N	0.6250	2	1.31	13.81	0.095	✓	1	Bolt Shear
T2	160	Leg	A325N	1.0000	4	4.78	54.52	0.088	✓	1	Bolt Tension
		Diagonal	A325N	0.6250	3	2.14	13.81	0.155	✓	1	Bolt Shear
		Horizontal	A325N	0.6250	2	2.01	13.81	0.146	✓	1	Bolt Shear
T3	140	Leg	A325N	1.0000	6	7.46	54.52	0.137	✓	1	Bolt Tension
		Diagonal	A325N	0.6250	3	3.12	13.81	0.226	✓	1	Bolt Shear
		Horizontal	A325N	0.6250	2	3.24	13.81	0.235	✓	1	Bolt Shear
T4	120	Leg	A325N	1.0000	8	9.53	54.52	0.175	✓	1	Bolt Tension
		Diagonal	A325N	0.6250	3	3.17	13.81	0.230	✓	1	Bolt Shear
		Horizontal	A325N	0.6250	2	3.54	13.81	0.257	✓	1	Bolt Shear
T5	100	Leg	A325N	1.0000	8	12.71	54.52	0.233	✓	1	Bolt Tension
		Diagonal	A325N	0.6250	3	4.09	13.81	0.296	✓	1	Bolt Shear
		Horizontal	A325N	0.6250	2	3.97	13.81	0.288	✓	1	Bolt Shear
T6	80	Leg	A325N	1.0000	8	16.44	54.52	0.302	✓	1	Bolt Tension
		Diagonal	A325N	0.6250	3	4.26	13.81	0.309	✓	1	Bolt Shear
		Horizontal	A325N	0.6250	2	4.41	13.81	0.319	✓	1	Bolt Shear
T7	60	Leg	A325N	1.0000	12	13.38	54.52	0.245	✓	1	Bolt Tension
		Diagonal	A325N	0.6250	3	4.41	13.81	0.320	✓	1	Bolt Shear
		Horizontal	A325N	0.6250	2	4.80	13.81	0.348	✓	1	Bolt Shear
T8	40	Leg	A325N	1.0000	12	15.73	54.52	0.288	✓	1	Bolt Tension
		Diagonal	A325N	0.6250	3	4.55	13.81	0.330	✓	1	Bolt Shear

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Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load Allowable	Allowable Ratio	Criteria
T9	20	Horizontal	A325N	0.6250	2	5.13	13.81	0.372 ✓	1	Bolt Shear
		Diagonal	A325N	0.6250	3	4.73	13.81	0.342 ✓	1	Bolt Shear
		Horizontal	A325N	0.6250	2	5.46	13.81	0.396 ✓	1	Bolt Shear

### Compression Checks

### Leg Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>w</sub> K	φP <sub>n</sub> K	Ratio $\frac{P_u}{\phi P_n}$
T1	180 - 160	P3x.216 (3.5 OD)	20.00	6.53	67.3 K=1.00	2.2285	-6.16	72.00	0.086 <sup>1</sup> ✓
T2	160 - 140	P4x.337 (4.50 OD)	20.04	6.54	53.1 K=1.00	4.4074	-27.01	161.33	0.167 <sup>1</sup> ✓
T3	140 - 120	P5x.375 (5.5625 OD)	20.04	6.54	42.7 K=1.00	6.1114	-59.29	240.72	0.246 <sup>1</sup> ✓
T4	120 - 100	P6x.34 (6.625 OD)	20.04	6.54	35.3 K=1.00	6.7133	-94.78	275.84	0.344 <sup>1</sup> ✓
T5	100 - 80	Pipe 8.625" x 0.375" (8 EHS)	20.04	9.81	40.3 K=1.00	9.7193	-124.15	388.36	0.320 <sup>1</sup> ✓
T6	80 - 60	P8x.5 (8.625 OD)	20.04	9.81	40.9 K=1.00	12.7627	-158.89	508.20	0.313 <sup>1</sup> ✓
T7	60 - 40	P8x.5 (8.625 OD)	20.04	9.81	40.9 K=1.00	12.7627	-193.38	508.20	0.381 <sup>1</sup> ✓
T8	40 - 20	P10x.5 (10.75 OD)	20.04	9.81	32.4 K=1.00	16.1007	-227.35	670.86	0.339 <sup>1</sup> ✓
T9	20 - 0	P10x.5 (10.75 OD)	20.04	9.81	32.4 K=1.00	16.1007	-260.75	670.86	0.389 <sup>1</sup> ✓

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Diagonal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>w</sub> K	φP <sub>n</sub> K	Ratio $\frac{P_u}{\phi P_n}$
T1	180 - 160	P2x.154 (2.375 OD)	7.80	7.53	114.9 K=1.00	1.0745	-4.71	18.40	0.256 <sup>1</sup> ✓
T2	160 - 140	P2x.218 (2.375 OD)	8.42	8.13	127.2 K=1.00	1.4773	-6.43	20.62	0.312 <sup>1</sup> ✓
T3	140 - 120	P2x.218 (2.375 OD)	9.12	8.79	137.6	1.4773	-9.37	17.62	0.532 <sup>1</sup> ✓

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Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio $\frac{P_u}{\phi P_n}$
T4	120 - 100	P2.5x.203 (2.875 OD)	9.88	9.52	K=1.00 120.5	1.7040	-9.51	26.49	0.359 <sup>1</sup>
T5	100 - 80	P3x.216 (3.5 OD)	12.95	12.40	K=1.00 127.9	2.2285	-12.28	30.78	0.399 <sup>1</sup>
T6	80 - 60	P3x.216 (3.5 OD)	13.66	13.14	K=1.00 135.5	2.2285	-12.79	27.41	0.467 <sup>1</sup>
T7	60 - 40	P3x.216 (3.5 OD)	14.41	13.92	K=1.00 143.5	2.2285	-13.24	24.44	0.542 <sup>1</sup>
T8	40 - 20	P3x.216 (3.5 OD)	15.19	14.61	K=1.00 150.7	2.2285	-13.57	22.18	0.612 <sup>1</sup>
T9	20 - 0	P3x.300 (3.50 OD)	16.01	15.45	K=1.00 163.1	3.0159	-14.00	25.61	0.547 <sup>1</sup>

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Horizontal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio $\frac{P_u}{\phi P_n}$
T1	180 - 160	P1.5x.145 (1.90 OD)	8.54	4.12	K=1.00 79.5	0.7995	-2.59	22.67	0.114 <sup>1</sup>
T2	160 - 140	P1.5x.145 (1.90 OD)	9.95	4.79	K=1.00 92.3	0.7995	-4.02	19.29	0.208 <sup>1</sup>
T3	140 - 120	P1.5x.145 (1.90 OD)	12.05	5.80	K=1.00 111.7	0.7995	-6.47	14.45	0.448 <sup>1</sup>
T4	120 - 100	P2x.154 (2.375 OD)	14.15	6.80	K=1.00 103.7	1.0745	-7.00	22.03	0.318 <sup>1</sup>
T5	100 - 80	P2x.154 (2.375 OD)	15.91	7.60	K=1.00 115.8	1.0745	-7.88	18.10	0.435 <sup>1</sup>
T6	80 - 60	P2x.154 (2.375 OD)	18.01	8.64	K=1.00 131.8	1.0745	-8.72	13.98	0.624 <sup>1</sup>
T7	60 - 40	P2.5x.203 (2.875 OD)	20.10	9.69	K=1.00 122.8	1.7040	-9.44	25.55	0.369 <sup>1</sup>
T8	40 - 20	P2.5x.203 (2.875 OD)	22.20	10.65	K=1.00 134.9	1.7040	-10.03	21.14	0.474 <sup>1</sup>
T9	20 - 0	P3x.216 (3.5 OD)	24.30	11.70	K=1.00 120.7	2.2285	-10.57	34.56	0.306 <sup>1</sup>

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Top Girt Design Data (Compression)

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Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio P <sub>u</sub> / φP <sub>n</sub>
T1	180 - 160	P1.5x.145 (1.90 OD)	8.54	4.12	79.5 K=1.00	0.7995	-0.22	22.67	0.010 <sup>1</sup> ✓

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Inner Bracing Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio P <sub>u</sub> / φP <sub>n</sub>
T1	180 - 160	L2x2x1/8	4.27	4.27	128.9 K=1.00	0.4844	-0.00	8.35	0.000 <sup>1</sup> ✓
T2	160 - 140	L2x2x1/8	4.98	4.98	150.2 K=1.00	0.4844	-0.00	6.14	0.001 <sup>1</sup> ✓
T3	140 - 120	L2x2x1/8	6.03	6.03	181.9 K=1.00	0.4844	-0.01	4.19	0.001 <sup>1</sup> ✓
T4	120 - 100	L2x2x1/8	7.08	7.08	213.6 K=1.00	0.4844	-0.01	3.04	0.002 <sup>1</sup> ✓
T5	100 - 80	L2x2x1/8	7.96	7.96	240.2 K=1.00	0.4844	-0.01	2.40	0.003 <sup>1</sup> ✓
T6	80 - 60	L2 1/2x2 1/2x3/16	9.00	9.00	218.3 K=1.00	0.9020	-0.01	5.42	0.002 <sup>1</sup> ✓
T7	60 - 40	L3x3x3/16	10.05	10.05	202.4 K=1.00	1.0900	-0.01	7.62	0.001 <sup>1</sup> ✓
T8	40 - 20	L3 1/2x3 1/2x1/4	11.10	11.10	191.9 K=1.00	1.6900	-0.01	13.13	0.001 <sup>1</sup> ✓
T9	20 - 0	L3 1/2x3 1/2x1/4	12.15	12.15	210.1 K=1.00	1.6900	-0.01	10.96	0.001 <sup>1</sup> ✓

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Tension Checks

### Leg Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio P <sub>u</sub> / φP <sub>n</sub>
T1	180 - 160	P3x.216 (3.5 OD)	20.00	6.53	67.3	2.2285	2.54	100.28	0.025 <sup>1</sup> ✓
T2	160 - 140	P4x.337 (4.50 OD)	20.04	6.54	53.1	4.4074	19.14	198.34	0.096 <sup>1</sup> ✓
T3	140 - 120	P5x.375 (5.5625 OD)	20.04	6.54	42.7	6.1114	44.77	275.01	0.163 <sup>1</sup> ✓
T4	120 - 100	P6x.34 (6.625 OD)	20.04	6.54	35.3	6.7133	76.27	302.10	0.252 <sup>1</sup> ✓

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Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio $\frac{P_u}{\phi P_n}$
T5	100 - 80	Pipe 8.625" x 0.375" (8 EHS)	20.04	9.81	40.3	9.7193	101.66	437.37	0.232 <sup>1</sup>
T6	80 - 60	P8x.5 (8.625 OD)	20.04	9.81	40.9	12.7627	131.50	574.32	0.229 <sup>1</sup>
T7	60 - 40	P8x.5 (8.625 OD)	20.04	9.81	40.9	12.7627	160.57	574.32	0.280 <sup>1</sup>
T8	40 - 20	P10x.5 (10.75 OD)	20.04	9.81	32.4	16.1007	188.73	724.53	0.260 <sup>1</sup>
T9	20 - 0	P10x.5 (10.75 OD)	20.04	9.81	32.4	16.1007	215.71	724.53	0.298 <sup>1</sup>

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Diagonal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio $\frac{P_u}{\phi P_n}$
T1	180 - 160	P2x.154 (2.375 OD)	7.80	7.53	114.9	1.0745	4.64	48.35	0.096 <sup>1</sup>
T2	160 - 140	P2x.218 (2.375 OD)	8.42	8.13	127.2	1.4773	6.32	66.48	0.095 <sup>1</sup>
T3	140 - 120	P2x.218 (2.375 OD)	9.12	8.79	137.6	1.4773	9.24	66.48	0.139 <sup>1</sup>
T4	120 - 100	P2.5x.203 (2.875 OD)	9.38	9.01	114.2	1.7040	9.35	76.68	0.122 <sup>1</sup>
T5	100 - 80	P3x.216 (3.5 OD)	12.95	12.40	127.9	2.2285	12.03	100.28	0.120 <sup>1</sup>
T6	80 - 60	P3x.216 (3.5 OD)	13.66	13.14	135.5	2.2285	12.49	100.28	0.125 <sup>1</sup>
T7	60 - 40	P3x.216 (3.5 OD)	14.41	13.92	143.5	2.2285	12.84	100.28	0.128 <sup>1</sup>
T8	40 - 20	P3x.216 (3.5 OD)	14.81	14.22	146.6	2.2285	13.19	100.28	0.132 <sup>1</sup>
T9	20 - 0	P3x.300 (3.50 OD)	15.61	15.04	158.8	3.0159	13.53	135.72	0.100 <sup>1</sup>

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Horizontal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio $\frac{P_u}{\phi P_n}$
T1	180 - 160	P1.5x.145 (1.90 OD)	8.54	4.12	79.5	0.7995	2.63	35.98	0.073 <sup>1</sup>

<b>tnxTower</b>  <b>MasTec Network Solutions</b> 1151 SE Cary Pkwy, Suite 101 Cary, NC 27518 Phone: 919.674.5895 FAX:	<b>Job</b> 469141 - MADISON_CT	<b>Page</b> 31 of 33
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	<b>Client</b> Verizon	<b>Designed by</b> PDH

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio $\frac{P_u}{\phi P_n}$
T2	160 - 140	P1.5x.145 (1.90 OD)	9.95	4.79	92.3	0.7995	4.00	35.98	0.111 <sup>1</sup>
T3	140 - 120	P1.5x.145 (1.90 OD)	12.05	5.80	111.7	0.7995	6.49	35.98	0.180 <sup>1</sup>
T4	120 - 100	P2x.154 (2.375 OD)	14.15	6.80	103.7	1.0745	7.09	48.35	0.147 <sup>1</sup>
T5	100 - 80	P2x.154 (2.375 OD)	15.91	7.60	115.8	1.0745	7.94	48.35	0.164 <sup>1</sup>
T6	80 - 60	P2x.154 (2.375 OD)	18.01	8.64	131.8	1.0745	8.82	48.35	0.182 <sup>1</sup>
T7	60 - 40	P2.5x.203 (2.875 OD)	20.10	9.69	122.8	1.7040	9.60	76.68	0.125 <sup>1</sup>
T8	40 - 20	P2.5x.203 (2.875 OD)	22.20	10.65	134.9	1.7040	10.26	76.68	0.134 <sup>1</sup>
T9	20 - 0	P3x.216 (3.5 OD)	24.30	11.70	120.7	2.2285	10.93	100.28	0.109 <sup>1</sup>

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Top Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio $\frac{P_u}{\phi P_n}$
T1	180 - 160	P1.5x.145 (1.90 OD)	8.54	4.12	79.5	0.7995	0.22	35.98	0.006 <sup>1</sup>

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Inner Bracing Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio $\frac{P_u}{\phi P_n}$
T1	180 - 160	L2x2x1/8	4.27	4.27	81.8	0.4844	0.00	15.69	0.000 <sup>1</sup>
T2	160 - 140	L2x2x1/8	4.98	4.98	95.4	0.4844	0.00	15.69	0.000 <sup>1</sup>
T3	140 - 120	L2x2x1/8	5.34	5.34	102.4	0.4844	0.00	15.69	0.000 <sup>1</sup>
T4	120 - 100	L2x2x1/8	6.39	6.39	122.5	0.4844	0.00	15.69	0.000 <sup>1</sup>
T5	100 - 80	L2x2x1/8	7.44	7.44	142.6	0.4844	0.00	15.69	0.000 <sup>1</sup>
T6	80 - 60	L2 1/2x2 1/2x3/16	8.49	8.49	131.0	0.9020	0.00	29.22	0.000 <sup>1</sup>



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Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio P <sub>u</sub> / φP <sub>n</sub>
T7	60 - 40	L3x3x3/16	9.54	9.54	121.9	1.0900	0.00	35.32	0.000 <sup>1</sup>

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	φP <sub>allow</sub> K	% Capacity	Pass Fail	
T1	180 - 160	Leg	P3x.216 (3.5 OD)	3	-6.16	72.00	8.6	Pass	
T2	160 - 140	Leg	P4x.337 (4.50 OD)	41	-27.01	161.33	16.7	Pass	
T3	140 - 120	Leg	P5x.375 (5.5625 OD)	80	-59.29	240.72	24.6	Pass	
T4	120 - 100	Leg	P6x.34 (6.625 OD)	119	-94.78	275.84	34.4	Pass	
T5	100 - 80	Leg	Pipc 8.625" x 0.375" (8 EHS)	158	-124.15	388.36	32.0	Pass	
T6	80 - 60	Leg	P8x.5 (8.625 OD)	185	-158.89	508.20	31.3	Pass	
T7	60 - 40	Leg	P8x.5 (8.625 OD)	212	-193.38	508.20	38.1	Pass	
T8	40 - 20	Leg	P10x.5 (10.75 OD)	239	-227.35	670.86	33.9	Pass	
T9	20 - 0	Leg	P10x.5 (10.75 OD)	266	-260.75	670.86	38.9	Pass	
T1	180 - 160	Diagonal	P2x.154 (2.375 OD)	12	-4.71	18.40	25.6	Pass	
T2	160 - 140	Diagonal	P2x.218 (2.375 OD)	47	-6.43	20.62	31.2	Pass	
T3	140 - 120	Diagonal	P2x.218 (2.375 OD)	86	-9.37	17.62	53.2	Pass	
T4	120 - 100	Diagonal	P2.5x.203 (2.875 OD)	122	-9.51	26.49	35.9	Pass	
T5	100 - 80	Diagonal	P3x.216 (3.5 OD)	161	-12.28	30.78	39.9	Pass	
T6	80 - 60	Diagonal	P3x.216 (3.5 OD)	188	-12.79	27.41	46.7	Pass	
T7	60 - 40	Diagonal	P3x.216 (3.5 OD)	215	-13.24	24.44	54.2	Pass	
T8	40 - 20	Diagonal	P3x.216 (3.5 OD)	242	-13.57	22.18	61.2	Pass	
T9	20 - 0	Diagonal	P3x.300 (3.50 OD)	269	-14.00	25.61	54.7	Pass	
T1	180 - 160	Horizontal	P1.5x.145 (1.90 OD)	10	-2.59	22.67	11.4	Pass	
T2	160 - 140	Horizontal	P1.5x.145 (1.90 OD)	46	-4.02	19.29	20.8	Pass	
T3	140 - 120	Horizontal	P1.5x.145 (1.90 OD)	85	-6.47	14.45	44.8	Pass	
T4	120 - 100	Horizontal	P2x.154 (2.375 OD)	121	-7.00	22.03	31.8	Pass	
T5	100 - 80	Horizontal	P2x.154 (2.375 OD)	160	-7.88	18.10	43.5	Pass	
T6	80 - 60	Horizontal	P2x.154 (2.375 OD)	187	-8.72	13.98	62.4	Pass	
T7	60 - 40	Horizontal	P2.5x.203 (2.875 OD)	214	-9.44	25.55	36.9	Pass	
T8	40 - 20	Horizontal	P2.5x.203 (2.875 OD)	241	-10.03	21.14	47.4	Pass	
T9	20 - 0	Horizontal	P3x.216 (3.5 OD)	268	-10.57	34.56	30.6	Pass	
							39.6 (b)		
T1	180 - 160	Top Girt	P1.5x.145 (1.90 OD)	4	-0.22	22.67	1.0	Pass	
T1	180 - 160	Inner Bracing	L2x2x1/8	16	-0.00	8.35	0.4	Pass	
T2	160 - 140	Inner Bracing	L2x2x1/8	52	-0.00	6.14	0.5	Pass	
T3	140 - 120	Inner Bracing	L2x2x1/8	91	-0.01	4.19	0.5	Pass	
T4	120 - 100	Inner Bracing	L2x2x1/8	130	-0.01	3.04	0.6	Pass	
T5	100 - 80	Inner Bracing	L2x2x1/8	170	-0.01	2.40	0.7	Pass	
T6	80 - 60	Inner Bracing	L2 1/2x2 1/2x3/16	196	-0.01	5.42	0.6	Pass	
T7	60 - 40	Inner Bracing	L3x3x3/16	223	-0.01	7.62	0.6	Pass	
T8	40 - 20	Inner Bracing	L3 1/2x3 1/2x1/4	250	-0.01	13.13	0.5	Pass	
T9	20 - 0	Inner Bracing	L3 1/2x3 1/2x1/4	277	-0.01	10.96	0.5	Pass	
							Summary		
							Leg (T9)	38.9	Pass
							Diagonal (T8)	61.2	Pass
							Horizontal (T6)	62.4	Pass
							Top Girt	1.0	Pass

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	<b>Client</b>	Verizon	<b>Designed by</b>	PDH

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	$\phi P_{allow}$ K	% Capacity	Pass Fail
						(T1) Inner	0.7	Pass
						Bracing (T5)		
						Bolt Checks	39.6	Pass
						<b>RATING =</b>	<b>62.4</b>	<b>Pass</b>

Program Version 8.1.1.0 - 6/3/2021 File://mns-ral-fs1/data/Data/Engineering/Structural/MasTec-Production/StructuralAnalysis/45535 - 469141 - MADISON\_CT - SAR/Analysis/Tnx/45535 - 469141 - MADISON\_CT.eri

**APPENDIX 3: ADDITIONAL CALCULATIONS**

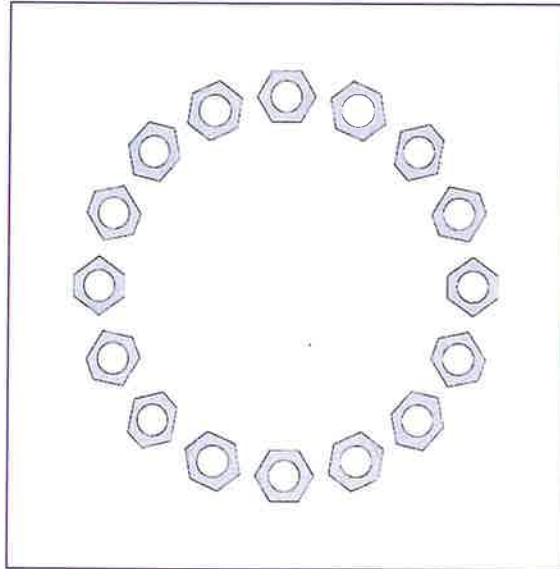
## Self Support Anchor Rod Capacity

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
$l_{ar}$ (in)	1

Applied Loads		
	Comp.	Uplift
Axial Force (kips)	275.66	228.26
Shear Force (kips)	33.01	29.40

Considered Eccentricity	
Leg Mod Eccentricity (in)	0.000
Anchor Rod N.A Shift (in)	0.000
Total Eccentricity (in)	0.000

\*Anchor Rod Eccentricity Applied



Connection Properties	Analysis Results
-----------------------	------------------

Anchor Rod Data	
(16) 1" $\emptyset$ bolts (A354-BC N; Fy=109 ksi, Fu=125 ksi)	
$l_{ar}$ (in):	1

Anchor Rod Summary		(units of kips, kip-in)
$P_{u,t}$ = 14.27	$\phi P_{n,t}$ = 56.81	<b>Stress Rating</b>
$V_u$ = 1.84	$\phi V_n$ = 36.82	<b>25.1%</b>
$M_u$ = n/a	$\phi M_n$ = n/a	Pass

# Drilled Pier Foundation

TIA-222 Revision: H  
Tower Type: Self Support

Check Limitation	
Apply TIA-222-H Section 15.5:	<input type="checkbox"/>
	N/A
Additional Longitudinal Rebar	
Input Effective Depths (else Actual):	<input type="checkbox"/>
Shear Design Options	<input type="checkbox"/>
Check Shear along Depth of Pier:	<input checked="" type="checkbox"/>
Utilize Shear-Friction Methodology:	<input checked="" type="checkbox"/>
Override Critical Depth:	<input type="checkbox"/>

Go to Soil Calculations

Analysis Results		
<b>Soil Lateral Check</b>		
D <sub>50</sub> (ft from TOC)	Compression	Uplift
Soil Safety Factor	15.07	11.36
Max Moment (kip-ft)	286.93	16.92
Rating	8.8%	255.55
		7.9%
<b>Soil Vertical Check</b>		
Skin Friction (kips)	494.86	494.86
End Bearing (kips)	828.91	-
Weight of Concrete (kips)	94.15	70.62
Total Capacity (kips)	1323.77	565.47
Axial (kips)	369.81	228.26
Rating	27.9%	40.4%
<b>Reinforced Concrete Flexure</b>		
Critical Depth (ft from TOC)	11.41	11.16
Critical Moment (kip-ft)	286.90	255.19
Critical Moment Capacity	4139.90	3220.64
Rating	6.9%	7.9%
<b>Reinforced Concrete Shear</b>		
Critical Depth (ft from TOC)	15.73	15.73
Critical Shear (kip)	70.46	62.75
Critical Shear Capacity	785.77	477.07
Rating	9.0%	13.2%

Shear-Friction Methodology is Applied

Structural Foundation Rating	13.2%
Soil Interaction Rating	40.4%

Applied Loads		
Moment (kip-ft)	0	Uplift
Axial Force (kips)	275.66	228.26
Shear Force (kips)	33.01	29.4

Material Properties	
Concrete Strength, f <sub>c</sub> :	4.5 ksi
Rebar Strength, F <sub>y</sub> :	60 ksi
Tie Yield Strength, F <sub>y</sub> t:	60 ksi

Pier Design Data	
Depth	18 ft
Ext. Above Grade	0.5 ft
Pier Section 1	
From 0.5' above grade to 18' below grade	
Pier Diameter	6 ft
Rebar Quantity	26
Rebar Size	9
Clear Cover to Ties	3 in
Tie Size	5
Tie Spacing	12 in

Rebar & Pier Options

Embedded Pier Inputs

Rebar Pier Inputs

## Soil Profile

# of Layers: 4

Groundwater Depth: N/A

Layer	Top (ft)	Bottom (ft)	Thickness (ft)	γ <sub>soil</sub> (pcf)	γ <sub>concrete</sub> (pcf)	Cohesion (ksf)	Angle of Friction (degrees)	Calculated Ultimate Skin Friction Comp (ksf)	Calculated Ultimate Skin Friction Uplift (ksf)	Ultimate Skin Friction Comp Override (ksf)	Ultimate Skin Friction Uplift Override (ksf)	Ult. Net Bearing Capacity (ksf)	SPT Blow Count	Soil Type
1	0	2	2	125	150	0	0	0.000	0.000	0.00	0.00			Cohesionless
2	2	10	8	125	150	0.625	0	0.344	0.344	0.31	0.31			Cohesive
3	10	14	4	135	150	6.25	0	2.813	2.813	3.13	3.13			Cohesive
4	14	18	4	145	150	8	0	3.600	3.600	5.00	5.00	36.719		Cohesive



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## Antenna Mount Analysis Report and PMI Requirements

Mount ReAnalysis

SMART Tool Project #: 10207606  
Colliers Engineering & Design CT. P.C. Project #: 23777180

July 24, 2023

### Site Information

Site ID: 5000128587-VZW / MADISON CT  
Site Name: MADISON CT  
Carrier Name: Verizon Wireless  
Address: 864 Opening Hill Rd.  
Madison, Connecticut 06443  
New Haven County  
Latitude: 41.356126°  
Longitude: -72.639080°

### Structure Information

Tower Type: 180-Ft Self Support  
Mount Type: 15.00-Ft Sector Frame

FUZE ID # 17123803

### Analysis Results

Sector Frame: 63.4% Pass\*

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

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

Included at the end of this MA report  
Available & Submitted via portal at <https://pmi.vzwsmart.com>

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

Report Prepared By: Selene Chen



**Executive Summary:**

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

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

**Sources of Information:**

Document Type	Remarks
<i>Radio Frequency Data Sheet (RFDS)</i>	<i>Verizon RFDS, Site ID: 324276, dated November 24, 2021</i>
<i>Mount Mapping Report</i>	<i>Hudson Design Group, LLC, Site ID: 469141, dated May 3, 2021</i>
<i>Previous Mount Analysis Report</i>	<i>Maser Consulting Connecticut, Project #: 21777866 (Rev.2), dated January 11, 2022</i>
<i>Post-Modification Inspection Report</i>	<i>Colliers Engineering &amp; Design CT. P.C., Project #: 21777866, dated December 7, 2022</i>
<i>Filter Add Scope</i>	<i>Provided by Verizon Wireless</i>

**Analysis Criteria:**

Codes and Standards:	ANSI/TIA-222-H 2022 Connecticut State Building Code (CSBC), Effective October 1, 2022
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), $V_{ULT}$ : 125 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.00 in Risk Category: II Exposure Category: B Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, $K_e$ : 0.989
Seismic Parameters:	$S_s$ : 0.206 g $S_1$ : 0.054 g
Maintenance Parameters:	Wind Speed (3-sec. Gust): 3 mph Maintenance Load, $L_v$ : 250 lbs. Maintenance Load, $L_m$ : 500 lbs.
Analysis Software:	RISA-3D (V17)

**Final Loading Configuration:**

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
169.75	171.00	6	JMA Wireless	MX06FRO660-03	Retained
		3	Samsung	MT6407-77A	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		3	Commscope	LNX-6514DS-A1M	
		2	Raycap	OVP 6*	
		1	-	GPS	
		2	KAelus	KA-6030	Added

\* Equipment is flush mounted directly to the Self Support. They are not mounted on sector frames and are not included in this mount analysis.

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

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

**Standard Conditions:**

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

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.



5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Colliers Engineering & Design CT. P.C. is not responsible for the conclusion, opinions, and recommendations made by others based on the information provided.
7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
  - o Channel, Solid Round, Angle, Plate      ASTM A36 (Gr. 36)
  - o HSS (Rectangular)                              ASTM 500 (Gr. B-46)
  - o Pipe    ASTM A53 (Gr. B-35)
  - o Threaded Rod                                      F1554 (Gr. 36)
  - o Bolts    ASTM A325

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

**Analysis Results:**

Component	Utilization %	Pass/Fail
Standoff Bar	63.4 %	Pass
Face Horizontal	21.3 %	Pass
Standoff Horizontal	30.3 %	Pass
Standoff Diagonal	28.1 %	Pass
Standoff Vertical	51.8 %	Pass
Antenna Pipe	24.7 %	Pass
Dual Mounted Pipe	10.7 %	Pass
Tie Back	4.4 %	Pass
Connection Check	32.3 %	Pass

<b>Structure Rating – (Controlling Utilization of all Components)</b>	<b>63.4%</b>
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**Mount Steel (EPA)a per ANSI/TIA-222-H Section 2.6.11.2:**

Ice Thickness (In)	Mount Pipes Excluded		Mount Pipes Included	
	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	22.5	14.4	35.8	27.7
0.5	32.8	21.6	51.5	40.3
1	42.6	28.2	66.7	52.3

Notes:

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

**Requirements:**

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

Contractor shall install safety climb wire rope guides in locations where wire rope is rubbing against the mount or mount-to-tower connection steel. Wire brush clean any observed corrosion and protect with two (2) coats of cold galvanization (Zinga or Zinc Kote). Contractor shall provide photos of wire rope guide installation as part of PMI documents. Contact EOR if additional guidance is required.

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

**Attachments:**

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

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

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

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

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

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

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MDG #: 5000128587

SMART Project #: 10207606

Fuze Project ID: 17123803

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

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

#### **Base Requirements:**

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

#### **Photo Requirements:**

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

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

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

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

OR

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

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

**Issue:**

Contractor shall install safety climb wire rope guides in locations where wire rope is rubbing against the mount or mount-to-tower connection steel. Wire brush clean any observed corrosion and protect with two (2) coats of cold galvanization (Zinga or Zinc Kote). Contractor shall provide photos of wire rope guide installation as part of PMI documents. Contact EOR if additional guidance is required.

**Response:**

**Special Instruction Confirmation:**

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

OR

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

**Comments:**

--

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

Yes       No

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

Yes       No

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

Safety Climb in Good Condition       Safety Climb Damaged

**Certifying Individual:**

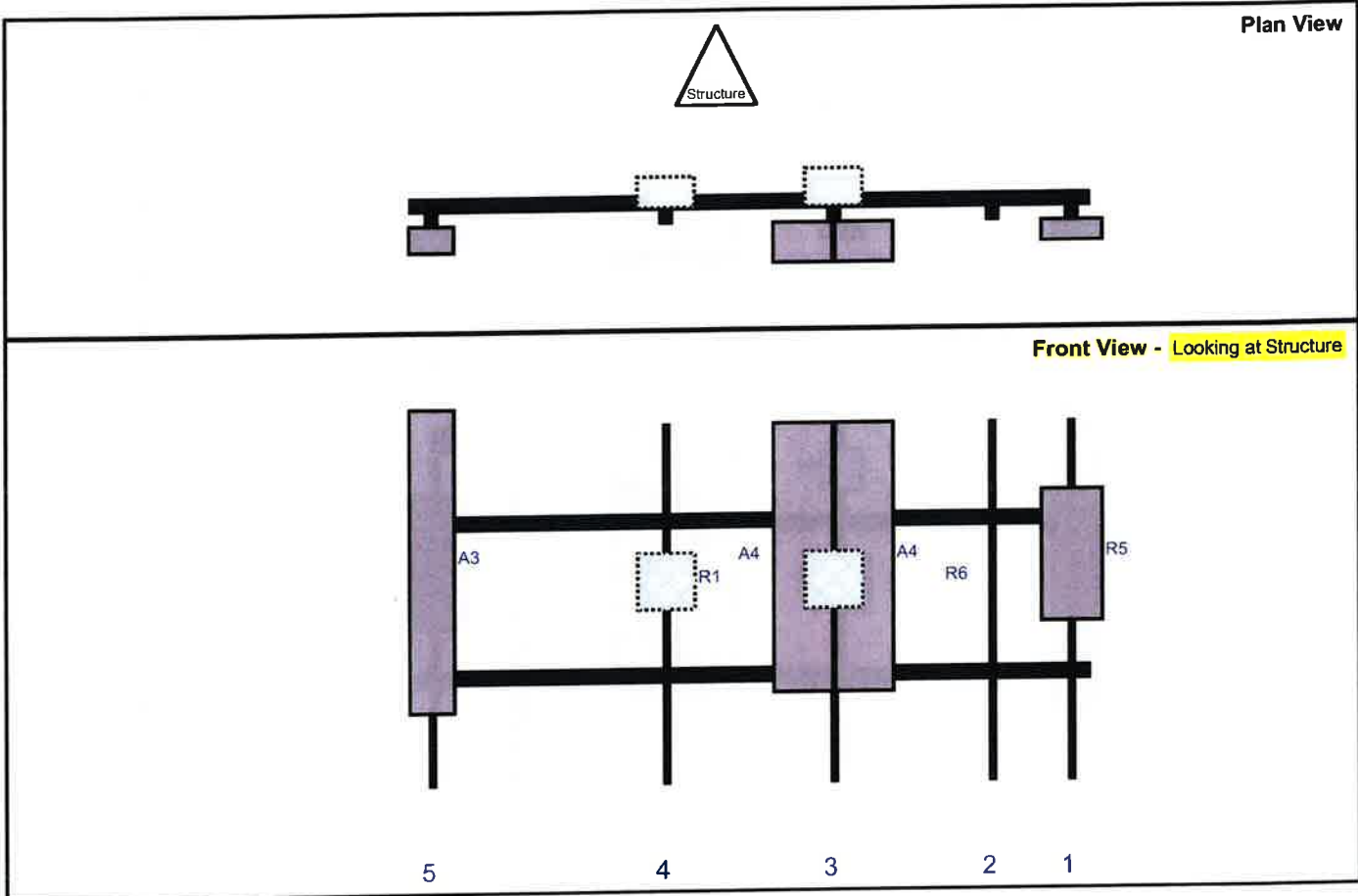
Company:	
Employee Name:	
Contact Phone:	
Email:	
Date:	

Sector: **A**  
 Structure Type: Self Support  
 Mount Elev: 169.75

10207606

7/24/2023

Page: 1



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R5	MT6407-77A	35.1	16.1	175	1	a	Front	36	0	Retained	11/17/2022
A4	MX06FRO660-03	71.3	15.4	112	3	a	Front	36	8	Retained	11/17/2022
A4	MX06FRO660-03	71.3	15.4	112	3	b	Front	36	-8	Retained	11/17/2022
R6	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	112	3	a	Behind	42	0	Retained	11/17/2022
R1	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	68	4	a	Behind	42	0	Retained	11/17/2022
A3	LNX-6514DS-A1M	80.6	11.9	6	5	a	Front	36	0	Retained	11/17/2022

Structure: 5000128587-VZW - MADISON CT

Sector: B

7/24/2023

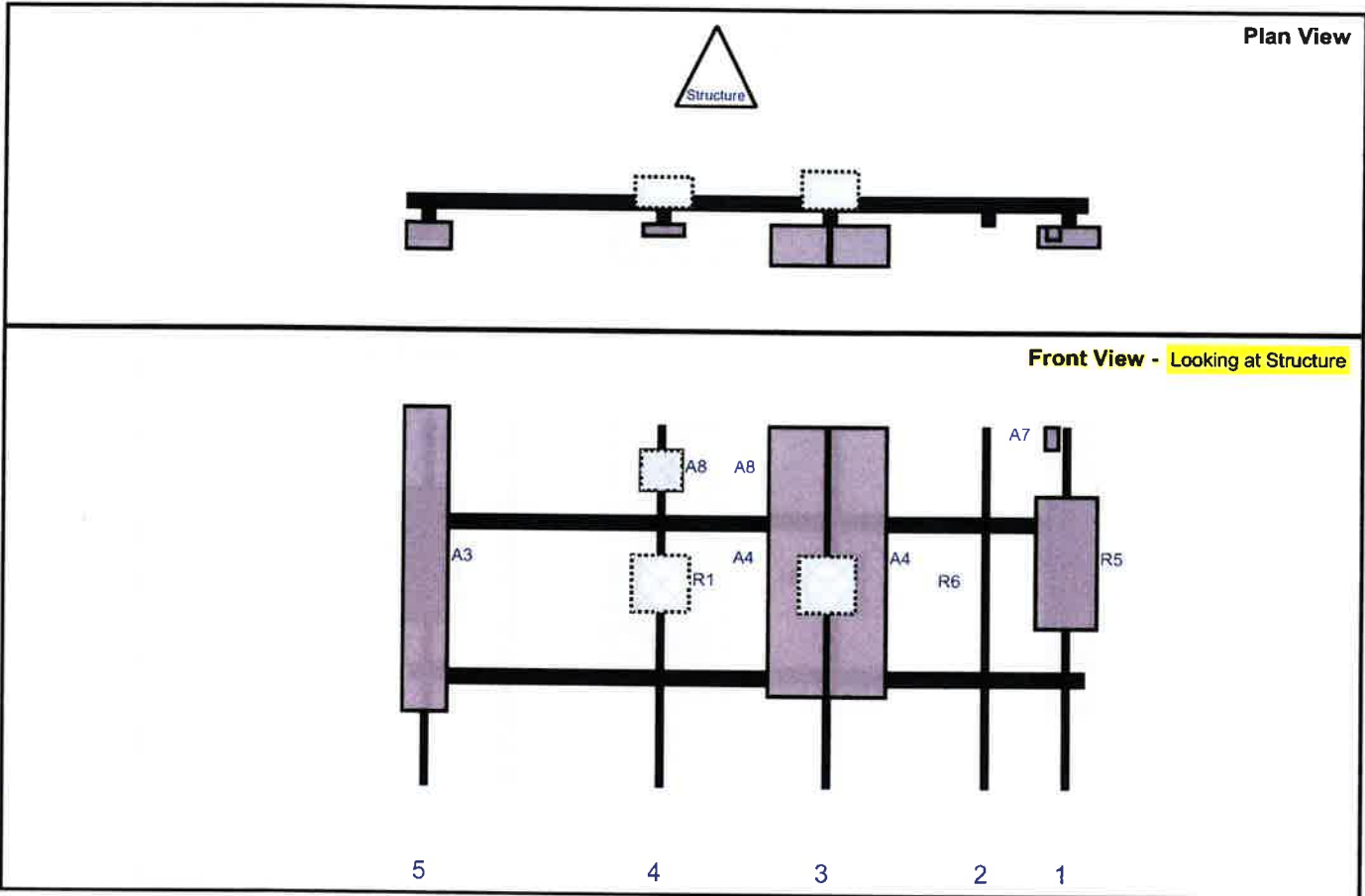
Structure Type: Self Support

10207606



Mount Elev: 169.75

Page: 2



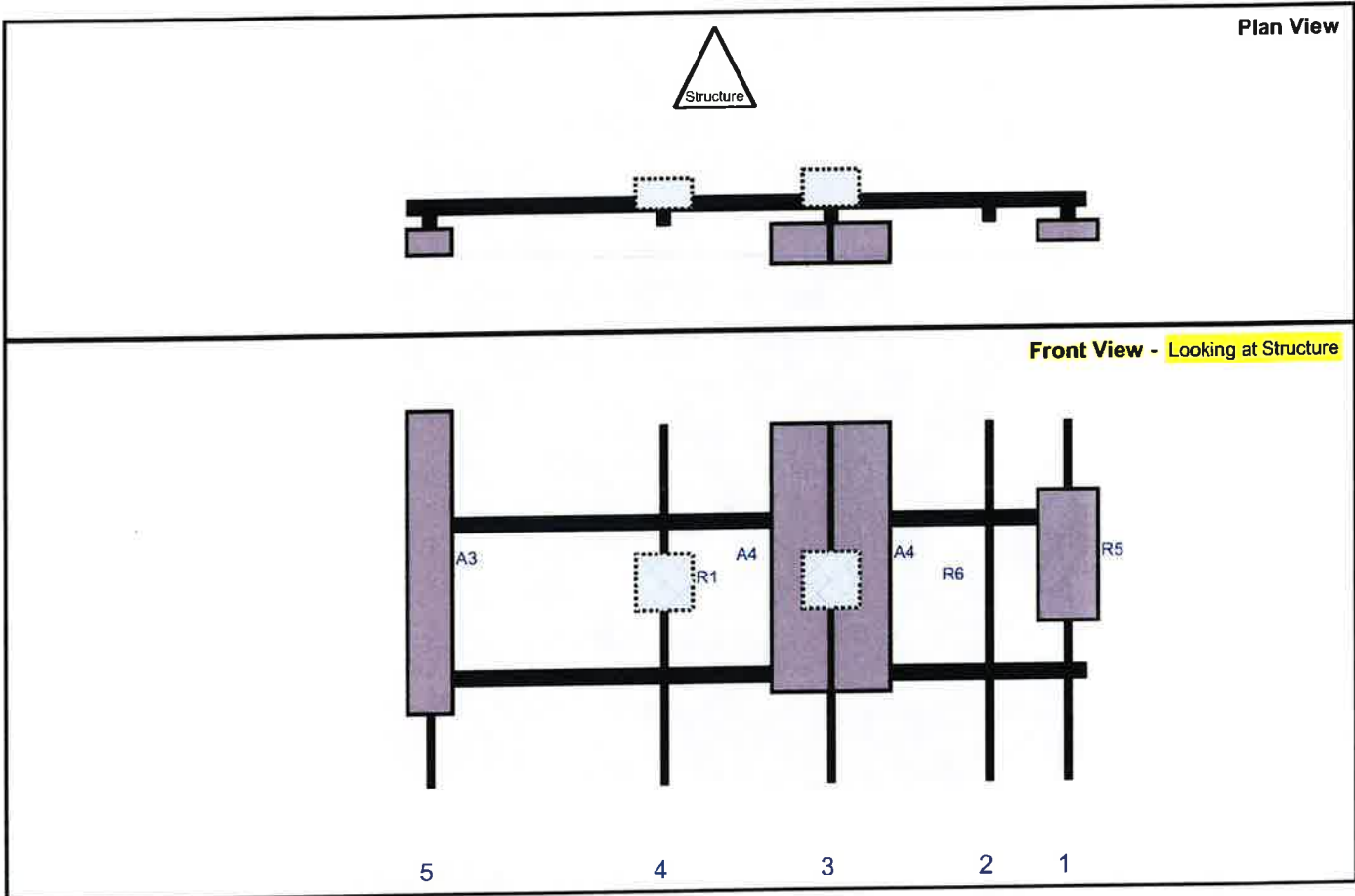
Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R5	MT6407-77A	35.1	16.1	175	1	a	Front	36	0	Retained	11/17/2022
A7	GPS	6	3.6	175	1	a	Front	3	-4	Retained	11/17/2022
A4	MX06FRO660-03	71.3	15.4	112	3	a	Front	36	8	Retained	11/17/2022
A4	MX06FRO660-03	71.3	15.4	112	3	b	Front	36	-8	Retained	11/17/2022
R6	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	112	3	a	Behind	42	0	Retained	11/17/2022
R1	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	68	4	a	Behind	42	0	Retained	11/17/2022
A8	KA-6030	10.6	10.9	68	4	a	Front	12	0	Added	
A8	KA-6030	10.6	10.9	68	4	b	Behind	12	0	Added	
A3	LNX-6514DS-A1M	80.6	11.9	6	5	a	Front	36	0	Retained	11/17/2022

Sector: C  
 Structure Type: Self Support  
 Mount Elev: 169.75

10207606

7/24/2023

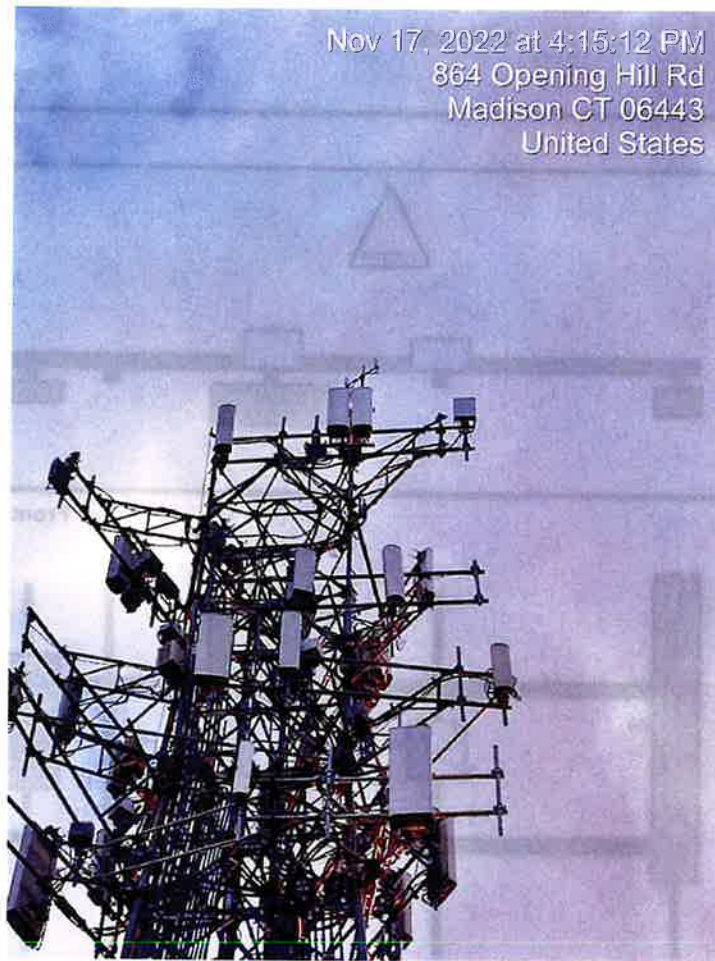
Page: 3



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R5	MT6407-77A	35.1	16.1	175	1	a	Front	36	0	Retained	11/17/2022
A4	MX06FRO660-03	71.3	15.4	112	3	a	Front	36	8	Retained	11/17/2022
A4	MX06FRO660-03	71.3	15.4	112	3	b	Front	36	-8	Retained	11/17/2022
R6	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	112	3	a	Behind	42	0	Retained	11/17/2022
R1	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	68	4	a	Behind	42	0	Retained	11/17/2022
A3	LNX-6514DS-A1M	80.6	11.9	6	5	a	Front	36	0	Retained	11/17/2022



Nov 17, 2022 at 4:15:12 PM  
864 Opening Hill Rd  
Madison CT 06443  
United States



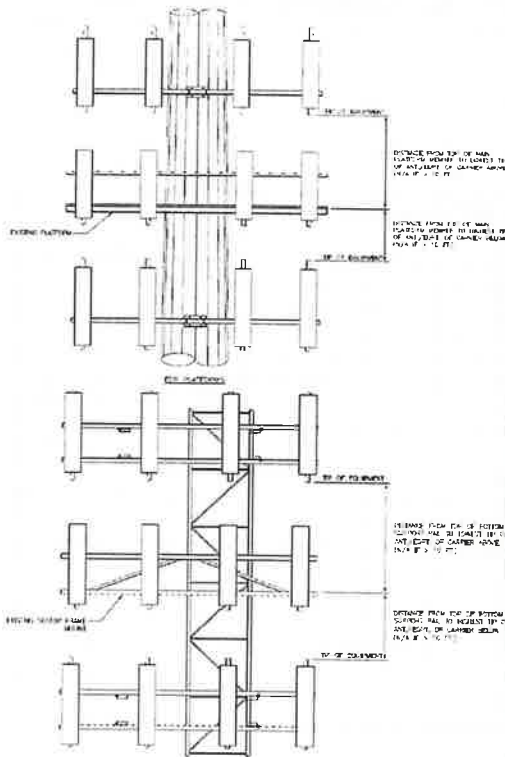
Nov 17, 2022 at 3:13:05 PM  
864 Opening Hill Rd  
Madison CT 06443  
United States



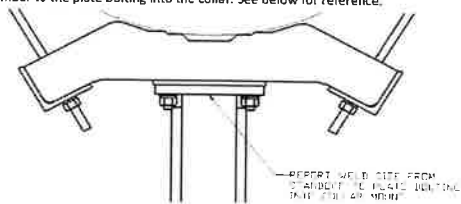


Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector				Sector B										
Sector A:	40.00	Deg	Leg A:	0.00	Deg	Ant <sub>1a</sub>												
Sector B:	170.00	Deg	Leg B:	120.00	Deg	Ant <sub>1b</sub>	SBNHH-1D65B	12.00	7.00	73.00		173.868	32.00	8.00	170.00	9,64		
Sector C:	280.00	Deg	Leg C:	240.00	Deg	Ant <sub>1c</sub>												
Sector D:		Deg	Leg D:		Deg	Ant <sub>2a</sub>	B4 RRH 4X45	11.00	5.50	36.00		173.952	21.00	-7.00		9,64		
Climbing Facility Information						Ant <sub>2b</sub>	BXA-70063/6CF	11.00	5.00	71.00		173.035	32.00	8.00	170.00	10,65		
Location:	120.00	Deg	Sector B				Ant <sub>2c</sub>											
Climbing Facility	Corrosion Type:		Minor corrosion observed.				Ant <sub>3a</sub>											
	Access:		Climbing path was unobstructed.				Ant <sub>3b</sub>	SBNHH-1D65B	12.00	7.00	73.00		173.868	32.00	8.00	170.00	11,66	
	Condition:		Good condition.				Ant <sub>3c</sub>											
							Ant <sub>4a</sub>	B13 RRH 4X30	12.00	7.50	20.50		174.868	10.00	-7.00		11,66	
						Ant <sub>4b</sub>	SBNHH-1D65B	12.00	7.00	73.00		173.035	32.00	8.00	170.00	12,67		
						Ant <sub>4c</sub>												
						Ant <sub>5a</sub>												
						Ant <sub>5b</sub>												
						Ant <sub>5c</sub>												
						Ant on Standoff												
						Ant on Standoff												
						Ant on Tower												
						Ant on Tower												
Sector C																		
						Ant <sub>1a</sub>												
						Ant <sub>1b</sub>	SBNHH-1D65B	12.00	7.00	73.00		173.868	32.00	8.00	280.00	18,68		
						Ant <sub>1c</sub>												
						Ant <sub>2a</sub>	B4 RRH 4X45	11.00	5.50	36.00		173.952	21.00	-7.00		18,68		
						Ant <sub>2b</sub>	BXA-70063/6CF	11.00	5.00	71.00		173.035	32.00	8.00	280.00	19,69		
						Ant <sub>2c</sub>												
						Ant <sub>3a</sub>												
						Ant <sub>3b</sub>	SBNHH-1D65B	12.00	7.00	73.00		173.868	32.00	8.00	280.00	20,69		
						Ant <sub>3c</sub>												
						Ant <sub>4a</sub>	B13 RRH 4X30	12.00	7.50	20.50		174.868	10.00	-7.00		20,69		
						Ant <sub>4b</sub>	SBNHH-1D65B	12.00	7.00	73.00		173.035	32.00	8.00	280.00	20,69		
						Ant <sub>4c</sub>												
						Ant <sub>5a</sub>												
						Ant <sub>5b</sub>												
						Ant <sub>5c</sub>												
						Ant on Standoff												
						Ant on Standoff												
						Ant on Tower												
						Ant on Tower												
Sector D																		
						Ant <sub>1a</sub>												
						Ant <sub>1b</sub>												
						Ant <sub>1c</sub>												
						Ant <sub>2a</sub>												
						Ant <sub>2b</sub>												
						Ant <sub>2c</sub>												
						Ant <sub>3a</sub>												
						Ant <sub>3b</sub>												
						Ant <sub>3c</sub>												
						Ant <sub>4a</sub>												
						Ant <sub>4b</sub>												
						Ant <sub>4c</sub>												
						Ant <sub>5a</sub>												
						Ant <sub>5b</sub>												
						Ant <sub>5c</sub>												
						Ant on Standoff												
						Ant on Standoff												
						Ant on Tower												
						Ant on Tower												

Please insert a photo of the mount centerline measurement here.



For T-Arms/Platforms on monopoles, record the weld size from the main standoff member to the plate bolting into the collar. See below for reference.



Observed Safety and Structural Issues During the Mount Mapping		
Issue #	Description of Issue	Photo #
1	Minor corrosion observed	65
2		
3		
4		
5		
6		
7		
8		

Observed Obstructions to Tower Lighting System			
If the tower lighting system is being obstructed by the carrier's equipment (for example: a light nested by the antennas), please provide photos and fill in the information below.			Photo #
Description of Obstruction:			
Type of Light:	Photo #	Additional Comments:	
Lighting Technology:	Photo #		
Elevation (AGL) at base of light (ft.):	Photo #		
Is a service loop available?	Photo #		
Is beacon installed on an extension?	Photo #		

Mapping Notes
<ol style="list-style-type: none"> <li>1. Please report any visible structural or safety issues observed on the antenna mounts (Damaged members, loose connections, tilting mounts, safety climb issues, etc.)</li> <li>2. If the thickness of the existing pipes or tubing can't be obtained from a general tool (such as Caliper), please use an ultrasonic measurement tool (thickness gauge) to measure the thickness.</li> <li>3. Please create all required detail sketches of the mounts and insert them into the "Sketches" tab.</li> <li>4. Please measure and enter the bolt sizes and types under the Members Box in the spreadsheet of the mount type.</li> <li>5. Take and label the photos of the tower, mounts, connections, antennas and all measurements. Minimum 50 photos are required.</li> <li>6. Please measure and report the size and length of all existing antenna mounting pipes.</li> <li>7. Please measure and report the antenna information for all sectors.</li> <li>8. Don't delete or rearrange any sheet or contents of any sheet from this mapping form.</li> </ol>

Standard Conditions
<ol style="list-style-type: none"> <li>1. Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping are to be reported in this mapping. However, this mount mapping is not a condition assessment of the mount.</li> </ol>



Antenna Mount Mapping Form (PATENT PENDING)

FCC #

Tower Owner:	AMERICAN TOWER CO.	Mapping Date:	5/3/2021
Site Name:	MADISON CT	Tower Type:	Self Support
Site Number or ID:	469141	Tower Height (FT.):	180
Mapping Contractor:	HUDSON DESIGN GROUP, LLC	Mount Elevation (FL.):	172.41

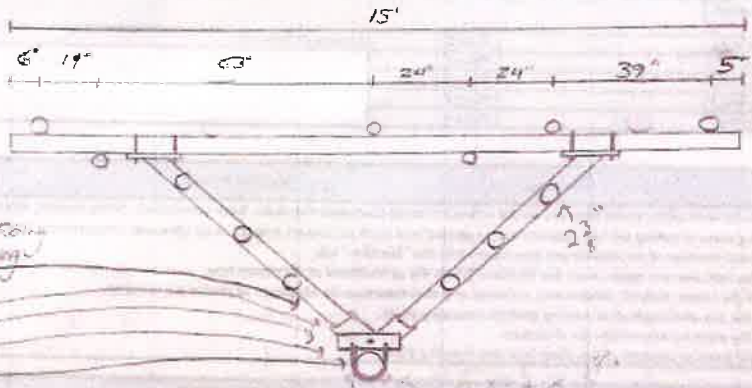
This antenna mapping form is the property of TES and under PATENT PENDING. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is prohibited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

Please Insert Sketches of the Antenna Mount

DATE: 5-3-21  
 Project Name: Madison CT  
 Project No.:  
 Design By: JWK Chk'd By: \_\_\_\_\_ Page \_\_\_\_\_ of \_\_\_\_\_

**HDG** HUDSON Design Group LLC  
 45 BENCHWOOD DRIVE  
 NORTH ANDOVER, MA 01845  
 Tel: 978 557 5658  
 Fax: 978 336 5384

Mount  
 2' 192.5" dia  
 All Pipe: 2 1/2"  
 Face Pipe: 3 3/4"  
 Bolts: 3/4"  
 Flange: 5 X 5 X 3/4"  
 Riv: 2 1/2"  
 Dia Support: 1 1/2" Round Tube  
 Vert Support: 1 1/2" Round Tube  
 Tube: 3 1/2" dia x 3/8"  
 Bolt: 3/4"  
 Angle: 4 x 3 x 7/8"  
 Dia: 4 x 3/8"  
 Tower Acc 8" dia  
 Tower Dia: 49"  
 Staff dia: 3 1/2"



21  
 SBNHH-1065B

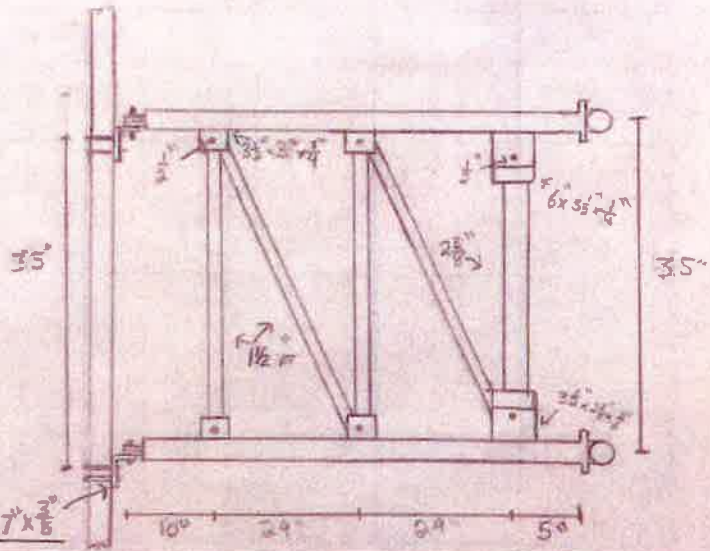
22  
 B4 100 4x45

23  
 BXA-700 63/6CF

24  
 B13 100 4x30

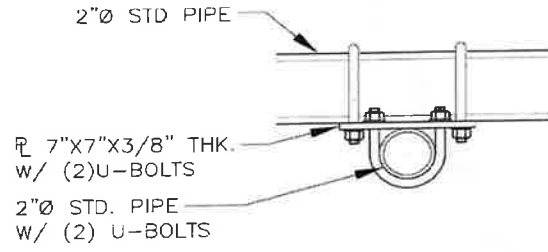
25  
 SBNHH-1065B

26  
 SBNHH-1065B

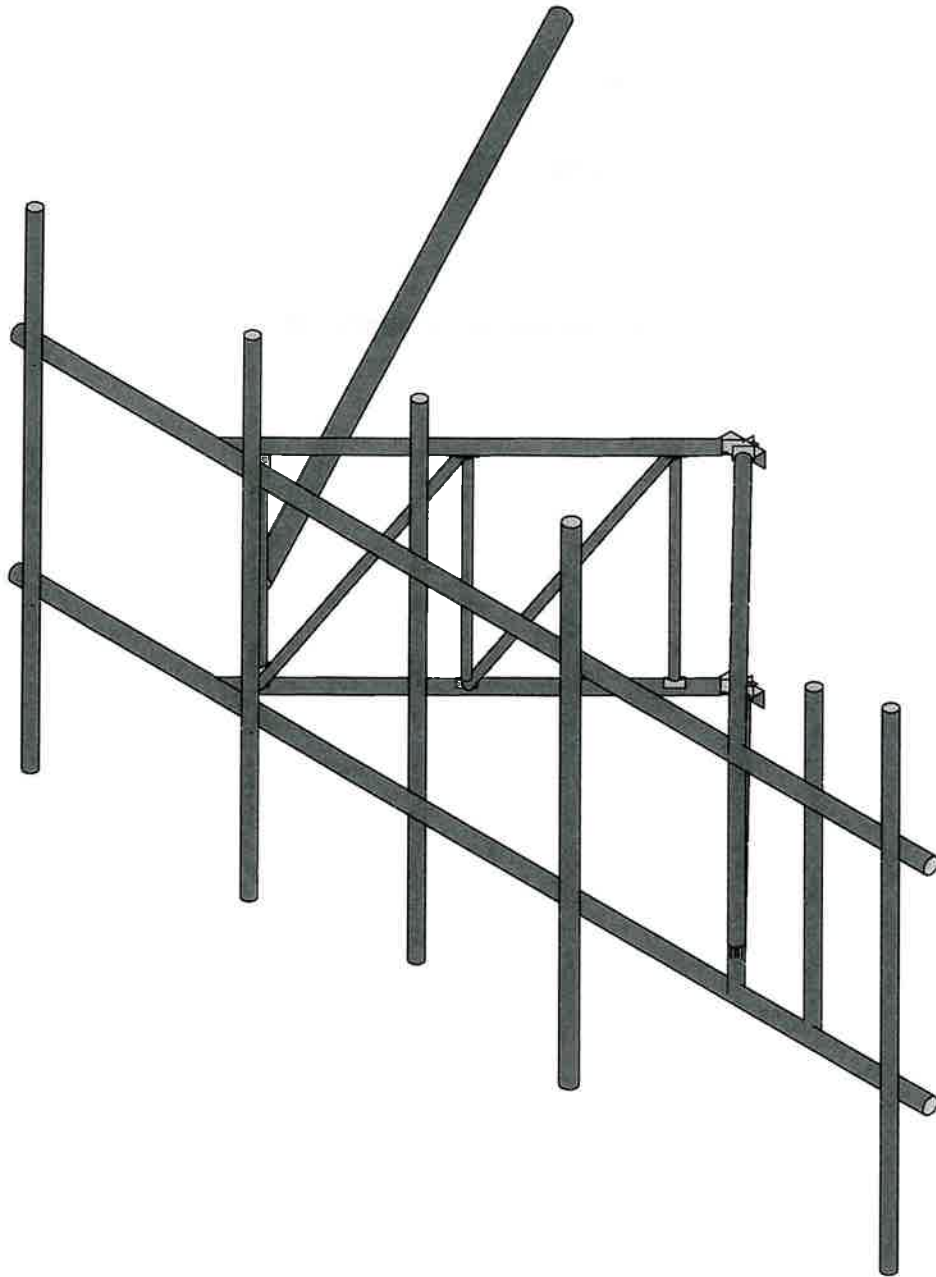
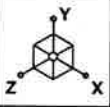


(2) CUP on B-C Face

Please Insert Sketches of the Antenna Mount, cont'd



ANTENNA PIPE MAST MOUNT CONNECTION



Envelope Only Solution

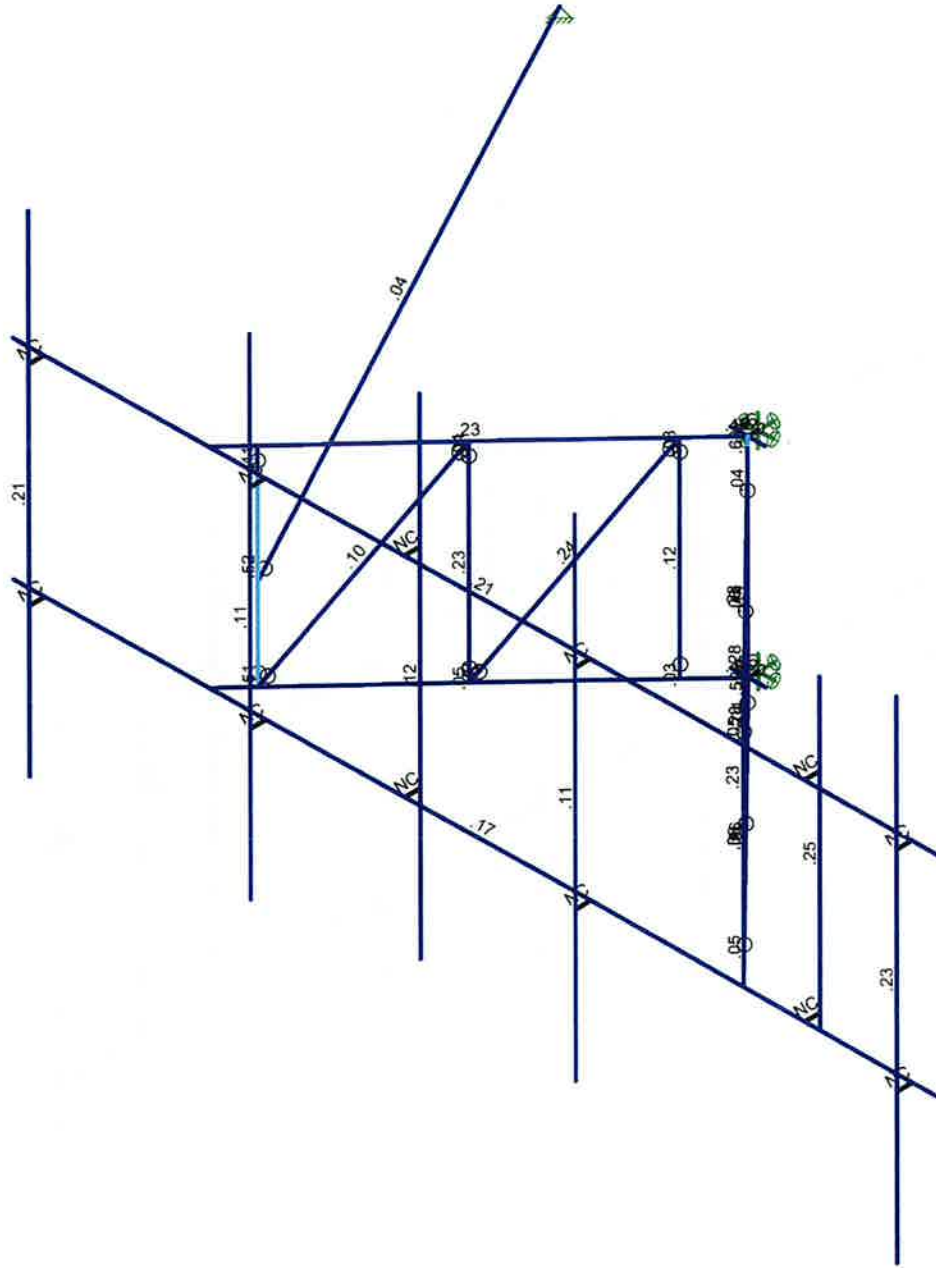
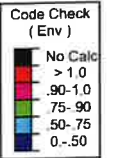
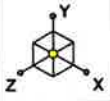
Colliers Engineering & De...

5000128587-VZW\_MT\_LOT\_SectorB\_H

SK - 1

July 21, 2023 at 10:30 AM

5000128587-VZW\_MT\_LOT\_B\_H....



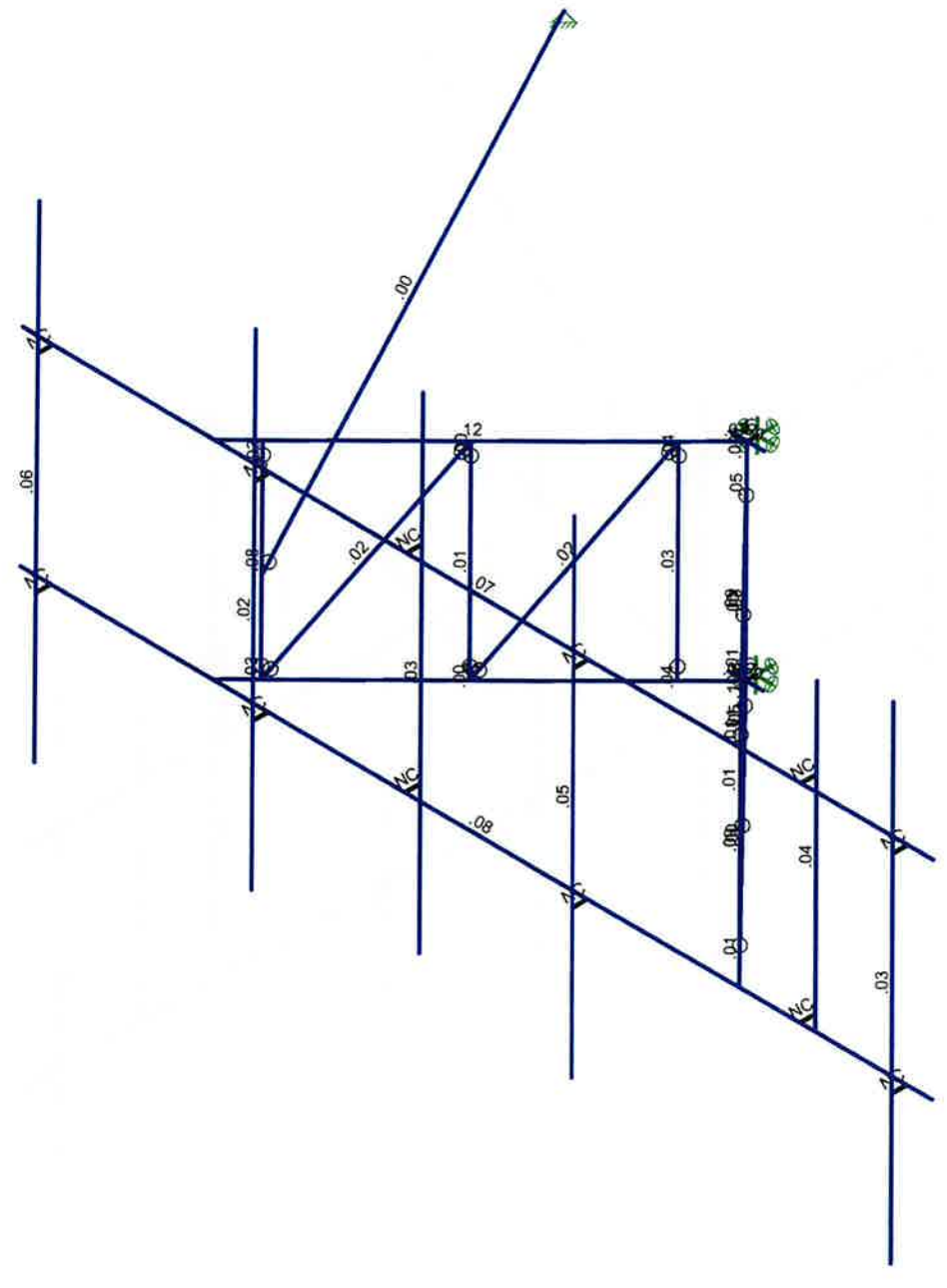
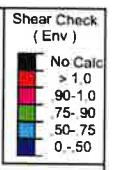
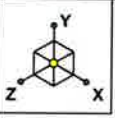
Member Code Checks Displayed (Enveloped)  
Envelope Only Solution

Colliers Engineering & De...

5000128587-VZW\_MT\_LOT\_SectorB\_H

SK - 2
July 21, 2023 at 10:30 AM
5000128587-VZW_MT_LOT_B_H....





Member Shear Checks Displayed (Enveloped)  
Envelope Only Solution

Colliers Engineering & De...	5000128587-VZW_MT_LOT_SectorB_H	SK - 3
		July 21, 2023 at 10:30 AM
		5000128587-VZW_MT_LOT_B_H....



**Basic Load Cases**

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me... Surface(...
1	Antenna D	None					36	
2	Antenna Di	None					36	
3	Antenna Wo (0 Deg)	None					36	
4	Antenna Wo (30 Deg)	None					36	
5	Antenna Wo (60 Deg)	None					36	
6	Antenna Wo (90 Deg)	None					36	
7	Antenna Wo (120 Deg)	None					36	
8	Antenna Wo (150 Deg)	None					36	
9	Antenna Wo (180 Deg)	None					36	
10	Antenna Wo (210 Deg)	None					36	
11	Antenna Wo (240 Deg)	None					36	
12	Antenna Wo (270 Deg)	None					36	
13	Antenna Wo (300 Deg)	None					36	
14	Antenna Wo (330 Deg)	None					36	
15	Antenna Wi (0 Deg)	None					36	
16	Antenna Wi (30 Deg)	None					36	
17	Antenna Wi (60 Deg)	None					36	
18	Antenna Wi (90 Deg)	None					36	
19	Antenna Wi (120 Deg)	None					36	
20	Antenna Wi (150 Deg)	None					36	
21	Antenna Wi (180 Deg)	None					36	
22	Antenna Wi (210 Deg)	None					36	
23	Antenna Wi (240 Deg)	None					36	
24	Antenna Wi (270 Deg)	None					36	
25	Antenna Wi (300 Deg)	None					36	
26	Antenna Wi (330 Deg)	None					36	
27	Antenna Wm (0 Deg)	None					36	
28	Antenna Wm (30 Deg)	None					36	
29	Antenna Wm (60 Deg)	None					36	
30	Antenna Wm (90 Deg)	None					36	
31	Antenna Wm (120 Deg)	None					36	
32	Antenna Wm (150 Deg)	None					36	
33	Antenna Wm (180 Deg)	None					36	
34	Antenna Wm (210 Deg)	None					36	
35	Antenna Wm (240 Deg)	None					36	
36	Antenna Wm (270 Deg)	None					36	
37	Antenna Wm (300 Deg)	None					36	
38	Antenna Wm (330 Deg)	None					36	
39	Structure D	None		-1				
40	Structure Di	None						41
41	Structure Wo (0 Deg)	None						82
42	Structure Wo (30 Deg)	None						82
43	Structure Wo (60 Deg)	None						82
44	Structure Wo (90 Deg)	None						82
45	Structure Wo (120 Deg)	None						82
46	Structure Wo (150 Deg)	None						82
47	Structure Wo (180 Deg)	None						82
48	Structure Wo (210 Deg)	None						82
49	Structure Wo (240 Deg)	None						82
50	Structure Wo (270 Deg)	None						82
51	Structure Wo (300 Deg)	None						82
52	Structure Wo (330 Deg)	None						82
53	Structure Wi (0 Deg)	None						82
54	Structure Wi (30 Deg)	None						82
55	Structure Wi (60 Deg)	None						82
56	Structure Wi (90 Deg)	None						82
57	Structure Wi (120 Deg)	None						82
58	Structure Wi (150 Deg)	None						82



**Basic Load Cases (Continued)**

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(...
59 Structure Wi (180 Deg)	None						82	
60 Structure Wi (210 Deg)	None						82	
61 Structure Wi (240 Deg)	None						82	
62 Structure Wi (270 Deg)	None						82	
63 Structure Wi (300 Deg)	None						82	
64 Structure Wi (330 Deg)	None						82	
65 Structure Wm (0 Deg)	None						82	
66 Structure Wm (30 Deg)	None						82	
67 Structure Wm (60 Deg)	None						82	
68 Structure Wm (90 Deg)	None						82	
69 Structure Wm (120 Deg)	None						82	
70 Structure Wm (150 Deg)	None						82	
71 Structure Wm (180 Deg)	None						82	
72 Structure Wm (210 Deg)	None						82	
73 Structure Wm (240 Deg)	None						82	
74 Structure Wm (270 Deg)	None						82	
75 Structure Wm (300 Deg)	None						82	
76 Structure Wm (330 Deg)	None						82	
77 Lm1	None					1		
78 Lm2	None					1		
79 Lv1	None					1		
80 Lv2	None					1		
81 Antenna Ev	None					36		
82 Antenna Eh (0 Deg)	None					24		
83 Antenna Eh (90 Deg)	None					24		
84 Structure Ev	ELY		-.044					
85 Structure Eh (0 Deg)	ELZ			-.11				
86 Structure Eh (90 Deg)	ELX	.11						

**Load Combinations**

Description	So. P...	S...	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.
1 1.2D+1.0Wo (0 Deg)	Yes	Y	1	1.2	39	1.2	3	1	41	1					
2 1.2D+1.0Wo (30 Deg)	Yes	Y	1	1.2	39	1.2	4	1	42	1					
3 1.2D+1.0Wo (60 Deg)	Yes	Y	1	1.2	39	1.2	5	1	43	1					
4 1.2D+1.0Wo (90 Deg)	Yes	Y	1	1.2	39	1.2	6	1	44	1					
5 1.2D+1.0Wo (120 Deg)	Yes	Y	1	1.2	39	1.2	7	1	45	1					
6 1.2D+1.0Wo (150 Deg)	Yes	Y	1	1.2	39	1.2	8	1	46	1					
7 1.2D+1.0Wo (180 Deg)	Yes	Y	1	1.2	39	1.2	9	1	47	1					
8 1.2D+1.0Wo (210 Deg)	Yes	Y	1	1.2	39	1.2	10	1	48	1					
9 1.2D+1.0Wo (240 Deg)	Yes	Y	1	1.2	39	1.2	11	1	49	1					
10 1.2D+1.0Wo (270 Deg)	Yes	Y	1	1.2	39	1.2	12	1	50	1					
11 1.2D+1.0Wo (300 Deg)	Yes	Y	1	1.2	39	1.2	13	1	51	1					
12 1.2D+1.0Wo (330 Deg)	Yes	Y	1	1.2	39	1.2	14	1	52	1					
13 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	15	1	53	1	
14 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	16	1	54	1	
15 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	17	1	55	1	
16 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	18	1	56	1	
17 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	19	1	57	1	
18 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	20	1	58	1	
19 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	21	1	59	1	
20 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	22	1	60	1	
21 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	23	1	61	1	
22 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	24	1	62	1	
23 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	25	1	63	1	
24 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	26	1	64	1	
25 1.2D + 1.5Lm1 + 1.0...	Yes	Y	1	1.2	39	1.2	77	1.5	27	1	65	1			
26 1.2D + 1.5Lm1 + 1.0...	Yes	Y	1	1.2	39	1.2	77	1.5	28	1	66	1			



**Load Combinations (Continued)**

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

**Joint Coordinates and Temperatures**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	-0.166667	0	0.166667	0	
2	N2	-0.447917	0	0.166667	0	
3	N3	0.114583	0	0.166667	0	
4	N4	-0.166667	0	0	0	
5	N5	-0.166667	-3.416667	0.166667	0	



**Joint Coordinates and Temperatures (Continued)**

	Label	X (ft)	Y (ft)	Z (ft)	Temp (F)	Detach From Diap...
6	N6	-0.447917	-3.416667	0.166667	0	
7	N7	0.114583	-3.416667	0.166667	0	
8	N10	-4.5	0	4.583333	0	
9	N11	4.166667	0	4.583333	0	
10	N11A	-7.666667	0	4.583333	0	
11	N12	7.333333	0	4.583333	0	
12	N14	-4.5	-3.416667	4.583333	0	
13	N15	4.166667	-3.416667	4.583333	0	
14	N16	-7.666667	-3.416667	4.583333	0	
15	N17	7.333333	-3.416667	4.583333	0	
16	N17A	-0.341752	0	0.345119	0	
17	N18	0.008419	0	0.345119	0	
18	N19	-0.341752	-3.416667	0.345119	0	
19	N20	0.008419	-3.416667	0.345119	0	
20	N21	0.38777	0	0.731765	0	
21	N22	0.38777	-3.416667	0.731765	0	
22	N23	2.08026	0	2.456803	0	
23	N24	2.08026	-3.416667	2.456803	0	
24	N25	3.77275	0	4.181841	0	
25	N26	3.77275	-3.416667	4.181841	0	
26	N27	0.38777	-3.291667	0.731765	0	
27	N28	2.08026	-3.291667	2.456803	0	
28	N29	0.38777	-.125	0.731765	0	
29	N30	2.08026	-.125	2.456803	0	
30	N31	3.77275	-3.083333	4.181841	0	
31	N32	3.77275	-0.333333	4.181841	0	
32	N33	-0.721103	0	0.731765	0	
33	N34	-0.721103	-3.416667	0.731765	0	
34	N35	-2.413593	0	2.456803	0	
35	N36	-2.413593	-3.416667	2.456803	0	
36	N37	-4.106083	0	4.181841	0	
37	N38	-4.106083	-3.416667	4.181841	0	
38	N39	-0.721103	-3.291667	0.731765	0	
39	N40	-2.413593	-3.291667	2.456803	0	
40	N41	-0.721103	-.125	0.731765	0	
41	N42	-2.413593	-.125	2.456803	0	
42	N43	-4.106083	-3.083333	4.181841	0	
43	N44	-4.106083	-0.333333	4.181841	0	
44	N65	-0.166667	-3.416667	0	0	
45	N45	-3.583333	0	4.583333	0	
46	N46	-3.583333	-3.416667	4.583333	0	
47	N47	-7.166667	0	4.583333	0	
48	N48	-7.166667	-3.416667	4.583333	0	
49	N49	-1.333333	0	4.583333	0	
50	N50	-1.333333	-3.416667	4.583333	0	
51	N51	1.666667	0	4.583333	0	
52	N52	1.666667	-3.416667	4.583333	0	
53	N53	5.166667	0	4.583333	0	
54	N54	5.166667	-3.416667	4.583333	0	
55	N55	6.916667	0	4.583333	0	
56	N56	6.916667	-3.416667	4.583333	0	
57	N57	-3.583333	0	4.833333	0	
58	N58	-3.583333	-3.416667	4.833333	0	
59	N59	-7.166667	0	4.833333	0	
60	N60	-7.166667	-3.416667	4.833333	0	
61	N61	-1.333333	0	4.333333	0	
62	N62	-1.333333	-3.416667	4.333333	0	
63	N63	1.666667	0	4.833333	0	
64	N64	1.666667	-3.416667	4.833333	0	



**Joint Coordinates and Temperatures (Continued)**

	Label	X (ft)	Y (ft)	Z (ft)	Temp (F)	Detach From Diap...
65	N65A	5.166667	0	4.333333	0	
66	N66	5.166667	-3.416667	4.333333	0	
67	N67	6.916667	0	4.833333	0	
68	N68	6.916667	-3.416667	4.833333	0	
69	N69	-3.583333	2.166667	4.833333	0	
70	N70	-7.166667	2.166667	4.833333	0	
71	N71	1.666667	2.166667	4.833333	0	
72	N72	6.916667	2.166667	4.833333	0	
73	N73	-3.583333	-5.833333	4.833333	0	
74	N74	-7.166667	-5.833333	4.833333	0	
75	N75	1.666667	-5.833333	4.833333	0	
76	N76	6.916667	-5.833333	4.833333	0	
77	N77	-1.333333	2.166667	4.333333	0	
78	N78	5.166667	1.333333	4.333333	0	
79	N79	-1.333333	-5.833333	4.333333	0	
80	N80	5.166667	-3.666667	4.333333	0	
81	N81	-4.106083	-1.916667	4.181841	0	
82	N84	-7.813671	0	-4.415	0	

**Hot Rolled Steel Section Sets**

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Antenna Pipe	PIPE 2.0	Column	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Dual Mounted Pipe	PIPE 2.5	Column	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
3	Standoff Horizontal	PIPE 2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
4	Standoff Vertical	PIPE 2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
5	Standoff Diagonal	1.5" w 0.06"	Beam	Pipe	A53 Gr. B	Typical	.271	.07	.07	.141
6	Face Horizontal	PIPE 2.5	Beam	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
7	Tie Back	PIPE 3.0	Beam	Pipe	A53 Gr. B	Typical	2.07	2.85	2.85	5.69
8	Standoff Bar	PL3/8X3	Beam	RECT	A36 Gr.36	Typical	1.125	.013	.844	.049
9	Mount Angle	L4X3X6	Beam	Single Angle	A36 Gr.36	Typical	2.49	1.89	3.94	.123
10	TES Standoff Diag	SR 1.25	Beam	Single Angle	A36 Gr.36	Typical	1.227	.12	.12	.24

**Hot Rolled Steel Properties**

	Label	E [ksi]	G [ksi]	Nu	Therm (/1...	Density[k/f...	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
2	A53 Gr. B	29000	11154	.3	.65	.49	35	1.5	60	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
5	A500 Gr. B 42	29000	11154	.3	.65	.49	42	1.4	58	1.3
6	A500 Gr. B 46	29000	11154	.3	.65	.49	46	1.4	58	1.3

**Member Primary Data**

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N2	N3		90	Mount Angle	Beam	Single Angle	A36 Gr.36	Typical
2	M2	N1	N4			RIGID	None	None	RIGID	Typical
3	M3	N6	N7		90	Mount Angle	Beam	Single Angle	A36 Gr.36	Typical
4	M5	N1	N17A		90	Standoff Bar	Beam	RECT	A36 Gr.36	Typical
5	M6	N1	N18		90	Standoff Bar	Beam	RECT	A36 Gr.36	Typical
6	M7	N11A	N12			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
7	M8	N5	N19		90	Standoff Bar	Beam	RECT	A36 Gr.36	Typical
8	M9	N5	N20		90	Standoff Bar	Beam	RECT	A36 Gr.36	Typical
9	M10	N16	N17			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
10	OVP	N17A	N10			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
11	M12	N18	N11			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical



**Member Primary Data (Continued)**

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
12	M13	N19	N14			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
13	M14	N20	N15			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
14	M15	N21	N29	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
15	M16	N21	N24		90	Standoff Diago...	Beam	Pipe	A53 Gr. B	Typical
16	M17	N23	N30	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
17	M18	N23	N26		90	Standoff Diago...	Beam	Pipe	A53 Gr. B	Typical
18	M19	N26	N31	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
19	M20	N27	N22	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
20	M21	N28	N24	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
21	M22	N29	N27	N1		Standoff Diago...	Beam	Pipe	A53 Gr. B	Typical
22	M23	N30	N28	N1		Standoff Diago...	Beam	Pipe	A53 Gr. B	Typical
23	M24	N31	N32	N1		Standoff Vertica	Beam	Pipe	A53 Gr. B	Typical
24	M25	N32	N25	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
25	M26	N33	N41	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
26	M27	N33	N36		90	Standoff Diago...	Beam	Pipe	A53 Gr. B	Typical
27	M28	N35	N42	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
28	M29	N35	N38		90	Standoff Diago...	Beam	Pipe	A53 Gr. B	Typical
29	M30	N38	N43	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
30	M31	N39	N34	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
31	M32	N40	N36	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
32	M33	N41	N39	N1		Standoff Diago...	Beam	Pipe	A53 Gr. B	Typical
33	M34	N42	N40	N1		Standoff Diago...	Beam	Pipe	A53 Gr. B	Typical
34	M35	N43	N44	N1		Standoff Vertica	Beam	Pipe	A53 Gr. B	Typical
35	M36	N44	N37	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
36	M46A	N5	N65			RIGID	None	None	RIGID	Typical
37	M37	N45	N57			RIGID	None	None	RIGID	Typical
38	M38	N47	N59			RIGID	None	None	RIGID	Typical
39	M39	N49	N61			RIGID	None	None	RIGID	Typical
40	M40	N46	N58			RIGID	None	None	RIGID	Typical
41	M41	N48	N60			RIGID	None	None	RIGID	Typical
42	M42	N50	N62			RIGID	None	None	RIGID	Typical
43	M43	N51	N63			RIGID	None	None	RIGID	Typical
44	M44	N52	N64			RIGID	None	None	RIGID	Typical
45	M45	N53	N65A			RIGID	None	None	RIGID	Typical
46	M46	N54	N66			RIGID	None	None	RIGID	Typical
47	M47	N55	N67			RIGID	None	None	RIGID	Typical
48	M48	N56	N68			RIGID	None	None	RIGID	Typical
49	MP6A	N69	N73			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
50	MP5A	N70	N74			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
51	MP3A	N71	N75			Dual Mounted ...	Column	Pipe	A53 Gr. B	Typical
52	MP1A	N72	N76			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
53	MP4A	N77	N79			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
54	MP2A	N78	N80			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
55	M55	N81	N84			Tie Back	Beam	Pipe	A53 Gr. B	Typical

**Member Advanced Data**

	Label	I Release	J Release	I Offset(in)	J Offset(in)	T/C Only	Physical	Defl Rat.	Analysis ...	Inactive	Seismic...
1	M1						Yes				None
2	M2						Yes	** NA **			None
3	M3						Yes				None
4	M5						Yes	Default			None
5	M6						Yes	Default			None
6	M7						Yes				None
7	M8						Yes	Default			None
8	M9						Yes	Default			None
9	M10						Yes				None
10	OVP						Yes				None



**Member Advanced Data (Continued)**

	Label	I Release	J Release	I Offset(in)	J Offset(in)	T/C Only	Physical	Defl Rat	Analysis ...	Inactive	Seismic...
11	M12						Yes				None
12	M13						Yes				None
13	M14						Yes				None
14	M15	OOOOOX					Yes				None
15	M16	BenPIN	BenPIN				Yes	Default			None
16	M17	OOOOOX					Yes				None
17	M18	BenPIN	BenPIN				Yes	Default			None
18	M19	OOOOOX					Yes				None
19	M20		OOOOOO				Yes				None
20	M21		OOOOOO				Yes				None
21	M22						Yes				None
22	M23						Yes	Default			None
23	M24						Yes				None
24	M25		OOOOOO				Yes	Default			None
25	M26	OOOOOX					Yes				None
26	M27	BenPIN	BenPIN				Yes				None
27	M28	OOOOOX					Yes				None
28	M29	BenPIN	BenPIN				Yes				None
29	M30	OOOOOX					Yes				None
30	M31		OOOOOO				Yes				None
31	M32		OOOOOO				Yes				None
32	M33						Yes				None
33	M34						Yes				None
34	M35						Yes				None
35	M36		OOOOOO				Yes				None
36	M46A						Yes	** NA **			None
37	M37						Yes	** NA **			None
38	M38						Yes	** NA **			None
39	M39						Yes	** NA **			None
40	M40						Yes	** NA **			None
41	M41						Yes	** NA **			None
42	M42						Yes	** NA **			None
43	M43						Yes	** NA **			None
44	M44						Yes	** NA **			None
45	M45						Yes	** NA **			None
46	M46						Yes	** NA **			None
47	M47						Yes	** NA **			None
48	M48						Yes	** NA **			None
49	MP6A						Yes	** NA **			None
50	MP5A						Yes	** NA **			None
51	MP3A						Yes	** NA **			None
52	MP1A						Yes	** NA **			None
53	MP4A						Yes	** NA **			None
54	MP2A						Yes	** NA **			None
55	M55	OOOXO					Yes	Default			None

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	Y	-23	.5
2	MP3A	My	-.011	.5
3	MP3A	Mz	.015	.5
4	MP3A	Y	-23	5.5
5	MP3A	My	-.011	5.5
6	MP3A	Mz	.015	5.5
7	MP3A	Y	-23	.5
8	MP3A	My	-.011	.5
9	MP3A	Mz	-.015	.5





**Member Point Loads (BLC 1 : Antenna D) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
10	MP3A	Y	-23	5.5
11	MP3A	My	-.011	5.5
12	MP3A	Mz	-.015	5.5
13	MP1A	Y	-43.55	2
14	MP1A	My	-.022	2
15	MP1A	Mz	0	2
16	MP1A	Y	-43.55	4
17	MP1A	My	-.022	4
18	MP1A	Mz	0	4
19	MP3A	Y	-84.4	3.5
20	MP3A	My	.042	3.5
21	MP3A	Mz	0	3.5
22	MP4A	Y	-70.3	3.5
23	MP4A	My	.035	3.5
24	MP4A	Mz	0	3.5
25	MP5A	Y	-22.95	.5
26	MP5A	My	-.011	.5
27	MP5A	Mz	0	.5
28	MP5A	Y	-22.95	5.5
29	MP5A	My	-.011	5.5
30	MP5A	Mz	0	5.5
31	MP4A	Y	-17.6	1
32	MP4A	My	-.006	1
33	MP4A	Mz	0	1
34	MP4A	Y	-17.6	1
35	MP4A	My	.006	1
36	MP4A	Mz	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	Y	-84.267	.5
2	MP3A	My	-.042	.5
3	MP3A	Mz	.056	.5
4	MP3A	Y	-84.267	5.5
5	MP3A	My	-.042	5.5
6	MP3A	Mz	.056	5.5
7	MP3A	Y	-84.267	.5
8	MP3A	My	-.042	.5
9	MP3A	Mz	-.056	.5
10	MP3A	Y	-84.267	5.5
11	MP3A	My	-.042	5.5
12	MP3A	Mz	-.056	5.5
13	MP1A	Y	-36.415	2
14	MP1A	My	-.018	2
15	MP1A	Mz	0	2
16	MP1A	Y	-36.415	4
17	MP1A	My	-.018	4
18	MP1A	Mz	0	4
19	MP3A	Y	-45.925	3.5
20	MP3A	My	.023	3.5
21	MP3A	Mz	0	3.5
22	MP4A	Y	-41.308	3.5
23	MP4A	My	.021	3.5
24	MP4A	Mz	0	3.5
25	MP5A	Y	-68.787	.5
26	MP5A	My	-.034	.5
27	MP5A	Mz	0	.5
28	MP5A	Y	-68.787	5.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
29	MP5A	My	-.034	5.5
30	MP5A	Mz	0	5.5
31	MP4A	Y	6.6	1
32	MP4A	My	.002	1
33	MP4A	Mz	0	1
34	MP4A	Y	6.6	1
35	MP4A	My	-.002	1
36	MP4A	Mz	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	0	.5
2	MP3A	Z	-91.826	.5
3	MP3A	Mx	-.061	.5
4	MP3A	X	0	5.5
5	MP3A	Z	-91.826	5.5
6	MP3A	Mx	-.061	5.5
7	MP3A	X	0	.5
8	MP3A	Z	-91.826	.5
9	MP3A	Mx	.061	.5
10	MP3A	X	0	5.5
11	MP3A	Z	-91.826	5.5
12	MP3A	Mx	.061	5.5
13	MP1A	X	0	2
14	MP1A	Z	-76.101	2
15	MP1A	Mx	0	2
16	MP1A	X	0	4
17	MP1A	Z	-76.101	4
18	MP1A	Mx	0	4
19	MP3A	X	0	3.5
20	MP3A	Z	-60.182	3.5
21	MP3A	Mx	0	3.5
22	MP4A	X	0	3.5
23	MP4A	Z	-60.182	3.5
24	MP4A	Mx	0	3.5
25	MP5A	X	0	.5
26	MP5A	Z	-179.186	.5
27	MP5A	Mx	0	.5
28	MP5A	X	0	5.5
29	MP5A	Z	-179.186	5.5
30	MP5A	Mx	0	5.5
31	MP4A	X	0	1
32	MP4A	Z	-37.274	1
33	MP4A	Mx	0	1
34	MP4A	X	0	1
35	MP4A	Z	-37.274	1
36	MP4A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	43.025	.5
2	MP3A	Z	-74.522	.5
3	MP3A	Mx	-.071	.5
4	MP3A	X	43.025	5.5
5	MP3A	Z	-74.522	5.5
6	MP3A	Mx	-.071	5.5
7	MP3A	X	43.025	.5
8	MP3A	Z	-74.522	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
9	MP3A	Mx	.028	.5
10	MP3A	X	43.025	5.5
11	MP3A	Z	-74.522	5.5
12	MP3A	Mx	.028	5.5
13	MP1A	X	31.814	2
14	MP1A	Z	-55.103	2
15	MP1A	Mx	-.016	2
16	MP1A	X	31.814	4
17	MP1A	Z	-55.103	4
18	MP1A	Mx	-.016	4
19	MP3A	X	27.616	3.5
20	MP3A	Z	-47.832	3.5
21	MP3A	Mx	.014	3.5
22	MP4A	X	26.693	3.5
23	MP4A	Z	-46.234	3.5
24	MP4A	Mx	.013	3.5
25	MP5A	X	82.095	.5
26	MP5A	Z	-142.193	.5
27	MP5A	Mx	-.041	.5
28	MP5A	X	82.095	5.5
29	MP5A	Z	-142.193	5.5
30	MP5A	Mx	-.041	5.5
31	MP4A	X	15.391	1
32	MP4A	Z	-26.658	1
33	MP4A	Mx	-.005	1
34	MP4A	X	15.391	1
35	MP4A	Z	-26.658	1
36	MP4A	Mx	.005	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	64.518	.5
2	MP3A	Z	-37.25	.5
3	MP3A	Mx	-.057	.5
4	MP3A	X	64.518	5.5
5	MP3A	Z	-37.25	5.5
6	MP3A	Mx	-.057	5.5
7	MP3A	X	64.518	.5
8	MP3A	Z	-37.25	.5
9	MP3A	Mx	-.007	.5
10	MP3A	X	64.518	5.5
11	MP3A	Z	-37.25	5.5
12	MP3A	Mx	-.007	5.5
13	MP1A	X	33.499	2
14	MP1A	Z	-19.341	2
15	MP1A	Mx	-.017	2
16	MP1A	X	33.499	4
17	MP1A	Z	-19.341	4
18	MP1A	Mx	-.017	4
19	MP3A	X	39.257	3.5
20	MP3A	Z	-22.665	3.5
21	MP3A	Mx	.02	3.5
22	MP4A	X	34.466	3.5
23	MP4A	Z	-19.899	3.5
24	MP4A	Mx	.017	3.5
25	MP5A	X	116.219	.5
26	MP5A	Z	-67.099	.5
27	MP5A	Mx	-.058	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
28	MP5A	X	116.219	5.5
29	MP5A	Z	-67.099	5.5
30	MP5A	Mx	-.058	5.5
31	MP4A	X	15.413	1
32	MP4A	Z	-8.899	1
33	MP4A	Mx	-.005	1
34	MP4A	X	15.413	1
35	MP4A	Z	-8.899	1
36	MP4A	Mx	.005	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	68.724	.5
2	MP3A	Z	0	.5
3	MP3A	Mx	-.034	.5
4	MP3A	X	68.724	5.5
5	MP3A	Z	0	5.5
6	MP3A	Mx	-.034	5.5
7	MP3A	X	68.724	.5
8	MP3A	Z	0	.5
9	MP3A	Mx	-.034	.5
10	MP3A	X	68.724	5.5
11	MP3A	Z	0	5.5
12	MP3A	Mx	-.034	5.5
13	MP1A	X	26.208	2
14	MP1A	Z	0	2
15	MP1A	Mx	-.013	2
16	MP1A	X	26.208	4
17	MP1A	Z	0	4
18	MP1A	Mx	-.013	4
19	MP3A	X	40.38	3.5
20	MP3A	Z	0	3.5
21	MP3A	Mx	.02	3.5
22	MP4A	X	33.003	3.5
23	MP4A	Z	0	3.5
24	MP4A	Mx	.017	3.5
25	MP5A	X	119.202	.5
26	MP5A	Z	0	.5
27	MP5A	Mx	-.06	.5
28	MP5A	X	119.202	5.5
29	MP5A	Z	0	5.5
30	MP5A	Mx	-.06	5.5
31	MP4A	X	11.305	1
32	MP4A	Z	0	1
33	MP4A	Mx	-.004	1
34	MP4A	X	11.305	1
35	MP4A	Z	0	1
36	MP4A	Mx	.004	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	64.518	.5
2	MP3A	Z	37.25	.5
3	MP3A	Mx	-.007	.5
4	MP3A	X	64.518	5.5
5	MP3A	Z	37.25	5.5
6	MP3A	Mx	-.007	5.5
7	MP3A	X	64.518	.5



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

	Member Label	Direction	Magnitude(lb.k-ft)	Location(ft.%)
8	MP3A	Z	37.25	.5
9	MP3A	Mx	-.057	.5
10	MP3A	X	64.518	5.5
11	MP3A	Z	37.25	5.5
12	MP3A	Mx	-.057	5.5
13	MP1A	X	33.499	2
14	MP1A	Z	19.341	2
15	MP1A	Mx	-.017	2
16	MP1A	X	33.499	4
17	MP1A	Z	19.341	4
18	MP1A	Mx	-.017	4
19	MP3A	X	39.257	3.5
20	MP3A	Z	22.665	3.5
21	MP3A	Mx	.02	3.5
22	MP4A	X	34.466	3.5
23	MP4A	Z	19.899	3.5
24	MP4A	Mx	.017	3.5
25	MP5A	X	116.219	.5
26	MP5A	Z	67.099	.5
27	MP5A	Mx	-.058	.5
28	MP5A	X	116.219	5.5
29	MP5A	Z	67.099	5.5
30	MP5A	Mx	-.058	5.5
31	MP4A	X	15.413	1
32	MP4A	Z	8.899	1
33	MP4A	Mx	-.005	1
34	MP4A	X	15.413	1
35	MP4A	Z	8.899	1
36	MP4A	Mx	.005	1

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

	Member Label	Direction	Magnitude(lb.k-ft)	Location(ft.%)
1	MP3A	X	43.025	.5
2	MP3A	Z	74.522	.5
3	MP3A	Mx	.028	.5
4	MP3A	X	43.025	5.5
5	MP3A	Z	74.522	5.5
6	MP3A	Mx	.028	5.5
7	MP3A	X	43.025	.5
8	MP3A	Z	74.522	.5
9	MP3A	Mx	-.071	.5
10	MP3A	X	43.025	5.5
11	MP3A	Z	74.522	5.5
12	MP3A	Mx	-.071	5.5
13	MP1A	X	31.814	2
14	MP1A	Z	55.103	2
15	MP1A	Mx	-.016	2
16	MP1A	X	31.814	4
17	MP1A	Z	55.103	4
18	MP1A	Mx	-.016	4
19	MP3A	X	27.616	3.5
20	MP3A	Z	47.832	3.5
21	MP3A	Mx	.014	3.5
22	MP4A	X	26.693	3.5
23	MP4A	Z	46.234	3.5
24	MP4A	Mx	.013	3.5
25	MP5A	X	82.095	.5
26	MP5A	Z	142.193	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
27	MP5A	Mx	-.041	.5
28	MP5A	X	82.095	5.5
29	MP5A	Z	142.193	5.5
30	MP5A	Mx	-.041	5.5
31	MP4A	X	15.391	1
32	MP4A	Z	26.658	1
33	MP4A	Mx	-.005	1
34	MP4A	X	15.391	1
35	MP4A	Z	26.658	1
36	MP4A	Mx	.005	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	0	.5
2	MP3A	Z	91.826	.5
3	MP3A	Mx	.061	.5
4	MP3A	X	0	5.5
5	MP3A	Z	91.826	5.5
6	MP3A	Mx	.061	5.5
7	MP3A	X	0	.5
8	MP3A	Z	91.826	.5
9	MP3A	Mx	-.061	.5
10	MP3A	X	0	5.5
11	MP3A	Z	91.826	5.5
12	MP3A	Mx	-.061	5.5
13	MP1A	X	0	2
14	MP1A	Z	76.101	2
15	MP1A	Mx	0	2
16	MP1A	X	0	4
17	MP1A	Z	76.101	4
18	MP1A	Mx	0	4
19	MP3A	X	0	3.5
20	MP3A	Z	60.182	3.5
21	MP3A	Mx	0	3.5
22	MP4A	X	0	3.5
23	MP4A	Z	60.182	3.5
24	MP4A	Mx	0	3.5
25	MP5A	X	0	.5
26	MP5A	Z	179.186	.5
27	MP5A	Mx	0	.5
28	MP5A	X	0	5.5
29	MP5A	Z	179.186	5.5
30	MP5A	Mx	0	5.5
31	MP4A	X	0	1
32	MP4A	Z	37.274	1
33	MP4A	Mx	0	1
34	MP4A	X	0	1
35	MP4A	Z	37.274	1
36	MP4A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-43.025	.5
2	MP3A	Z	74.522	.5
3	MP3A	Mx	.071	.5
4	MP3A	X	-43.025	5.5
5	MP3A	Z	74.522	5.5
6	MP3A	Mx	.071	5.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
7	MP3A	X	-43.025	.5
8	MP3A	Z	74.522	.5
9	MP3A	Mx	-.028	.5
10	MP3A	X	-43.025	5.5
11	MP3A	Z	74.522	5.5
12	MP3A	Mx	-.028	5.5
13	MP1A	X	-31.814	2
14	MP1A	Z	55.103	2
15	MP1A	Mx	.016	2
16	MP1A	X	-31.814	4
17	MP1A	Z	55.103	4
18	MP1A	Mx	.016	4
19	MP3A	X	-27.616	3.5
20	MP3A	Z	47.832	3.5
21	MP3A	Mx	-.014	3.5
22	MP4A	X	-26.693	3.5
23	MP4A	Z	46.234	3.5
24	MP4A	Mx	-.013	3.5
25	MP5A	X	-82.095	.5
26	MP5A	Z	142.193	.5
27	MP5A	Mx	.041	.5
28	MP5A	X	-82.095	5.5
29	MP5A	Z	142.193	5.5
30	MP5A	Mx	.041	5.5
31	MP4A	X	-15.391	1
32	MP4A	Z	26.658	1
33	MP4A	Mx	.005	1
34	MP4A	X	-15.391	1
35	MP4A	Z	26.658	1
36	MP4A	Mx	-.005	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-64.518	.5
2	MP3A	Z	37.25	.5
3	MP3A	Mx	.057	.5
4	MP3A	X	-64.518	5.5
5	MP3A	Z	37.25	5.5
6	MP3A	Mx	.057	5.5
7	MP3A	X	-64.518	.5
8	MP3A	Z	37.25	.5
9	MP3A	Mx	.007	.5
10	MP3A	X	-64.518	5.5
11	MP3A	Z	37.25	5.5
12	MP3A	Mx	.007	5.5
13	MP1A	X	-33.499	2
14	MP1A	Z	19.341	2
15	MP1A	Mx	.017	2
16	MP1A	X	-33.499	4
17	MP1A	Z	19.341	4
18	MP1A	Mx	.017	4
19	MP3A	X	-39.257	3.5
20	MP3A	Z	22.665	3.5
21	MP3A	Mx	-.02	3.5
22	MP4A	X	-34.466	3.5
23	MP4A	Z	19.899	3.5
24	MP4A	Mx	-.017	3.5
25	MP5A	X	-116.219	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
26	MP5A	Z	67.099	.5
27	MP5A	Mx	.058	.5
28	MP5A	X	-116.219	5.5
29	MP5A	Z	67.099	5.5
30	MP5A	Mx	.058	5.5
31	MP4A	X	-15.413	1
32	MP4A	Z	8.899	1
33	MP4A	Mx	.005	1
34	MP4A	X	-15.413	1
35	MP4A	Z	8.899	1
36	MP4A	Mx	-.005	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-68.724	.5
2	MP3A	Z	0	.5
3	MP3A	Mx	.034	.5
4	MP3A	X	-68.724	5.5
5	MP3A	Z	0	5.5
6	MP3A	Mx	.034	5.5
7	MP3A	X	-68.724	.5
8	MP3A	Z	0	.5
9	MP3A	Mx	.034	.5
10	MP3A	X	-68.724	5.5
11	MP3A	Z	0	5.5
12	MP3A	Mx	.034	5.5
13	MP1A	X	-26.208	2
14	MP1A	Z	0	2
15	MP1A	Mx	.013	2
16	MP1A	X	-26.208	4
17	MP1A	Z	0	4
18	MP1A	Mx	.013	4
19	MP3A	X	-40.38	3.5
20	MP3A	Z	0	3.5
21	MP3A	Mx	-.02	3.5
22	MP4A	X	-33.003	3.5
23	MP4A	Z	0	3.5
24	MP4A	Mx	-.017	3.5
25	MP5A	X	-119.202	.5
26	MP5A	Z	0	.5
27	MP5A	Mx	.06	.5
28	MP5A	X	-119.202	5.5
29	MP5A	Z	0	5.5
30	MP5A	Mx	.06	5.5
31	MP4A	X	-11.305	1
32	MP4A	Z	0	1
33	MP4A	Mx	.004	1
34	MP4A	X	-11.305	1
35	MP4A	Z	0	1
36	MP4A	Mx	-.004	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-64.518	.5
2	MP3A	Z	-37.25	.5
3	MP3A	Mx	.007	.5
4	MP3A	X	-64.518	5.5
5	MP3A	Z	-37.25	5.5





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location(ft.%)
6	MP3A	Mx	.007	5.5
7	MP3A	X	-64.518	.5
8	MP3A	Z	-37.25	.5
9	MP3A	Mx	.057	.5
10	MP3A	X	-64.518	5.5
11	MP3A	Z	-37.25	5.5
12	MP3A	Mx	.057	5.5
13	MP1A	X	-33.499	2
14	MP1A	Z	-19.341	2
15	MP1A	Mx	.017	2
16	MP1A	X	-33.499	4
17	MP1A	Z	-19.341	4
18	MP1A	Mx	.017	4
19	MP3A	X	-39.257	3.5
20	MP3A	Z	-22.665	3.5
21	MP3A	Mx	-.02	3.5
22	MP4A	X	-34.466	3.5
23	MP4A	Z	-19.899	3.5
24	MP4A	Mx	-.017	3.5
25	MP5A	X	-116.219	.5
26	MP5A	Z	-67.099	.5
27	MP5A	Mx	.058	.5
28	MP5A	X	-116.219	5.5
29	MP5A	Z	-67.099	5.5
30	MP5A	Mx	.058	5.5
31	MP4A	X	-15.413	1
32	MP4A	Z	-8.899	1
33	MP4A	Mx	.005	1
34	MP4A	X	-15.413	1
35	MP4A	Z	-8.899	1
36	MP4A	Mx	-.005	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location(ft.%)
1	MP3A	X	-43.025	.5
2	MP3A	Z	-74.522	.5
3	MP3A	Mx	-.028	.5
4	MP3A	X	-43.025	5.5
5	MP3A	Z	-74.522	5.5
6	MP3A	Mx	-.028	5.5
7	MP3A	X	-43.025	.5
8	MP3A	Z	-74.522	.5
9	MP3A	Mx	.071	.5
10	MP3A	X	-43.025	5.5
11	MP3A	Z	-74.522	5.5
12	MP3A	Mx	.071	5.5
13	MP1A	X	-31.814	2
14	MP1A	Z	-55.103	2
15	MP1A	Mx	.016	2
16	MP1A	X	-31.814	4
17	MP1A	Z	-55.103	4
18	MP1A	Mx	.016	4
19	MP3A	X	-27.616	3.5
20	MP3A	Z	-47.832	3.5
21	MP3A	Mx	-.014	3.5
22	MP4A	X	-26.693	3.5
23	MP4A	Z	-46.234	3.5
24	MP4A	Mx	-.013	3.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location(ft.%)
25	MP5A	X	-82.095	.5
26	MP5A	Z	-142.193	.5
27	MP5A	Mx	.041	.5
28	MP5A	X	-82.095	5.5
29	MP5A	Z	-142.193	5.5
30	MP5A	Mx	.041	5.5
31	MP4A	X	-15.391	1
32	MP4A	Z	-26.658	1
33	MP4A	Mx	.005	1
34	MP4A	X	-15.391	1
35	MP4A	Z	-26.658	1
36	MP4A	Mx	-.005	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location(ft.%)
1	MP3A	X	0	.5
2	MP3A	Z	-33.489	.5
3	MP3A	Mx	-.022	.5
4	MP3A	X	0	5.5
5	MP3A	Z	-33.489	5.5
6	MP3A	Mx	-.022	5.5
7	MP3A	X	0	.5
8	MP3A	Z	-33.489	.5
9	MP3A	Mx	.022	.5
10	MP3A	X	0	5.5
11	MP3A	Z	-33.489	5.5
12	MP3A	Mx	.022	5.5
13	MP1A	X	0	2
14	MP1A	Z	-16.532	2
15	MP1A	Mx	0	2
16	MP1A	X	0	4
17	MP1A	Z	-16.532	4
18	MP1A	Mx	0	4
19	MP3A	X	0	3.5
20	MP3A	Z	-13.949	3.5
21	MP3A	Mx	0	3.5
22	MP4A	X	0	3.5
23	MP4A	Z	-13.949	3.5
24	MP4A	Mx	0	3.5
25	MP5A	X	0	.5
26	MP5A	Z	-31.607	.5
27	MP5A	Mx	0	.5
28	MP5A	X	0	5.5
29	MP5A	Z	-31.607	5.5
30	MP5A	Mx	0	5.5
31	MP4A	X	0	1
32	MP4A	Z	-7.678	1
33	MP4A	Mx	0	1
34	MP4A	X	0	1
35	MP4A	Z	-7.678	1
36	MP4A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location(ft.%)
1	MP3A	X	15.726	.5
2	MP3A	Z	-27.239	.5
3	MP3A	Mx	-.026	.5
4	MP3A	X	15.726	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
5	MP3A	Z	-27.239	5.5
6	MP3A	Mx	-.026	5.5
7	MP3A	X	15.726	.5
8	MP3A	Z	-27.239	.5
9	MP3A	Mx	.01	.5
10	MP3A	X	15.726	5.5
11	MP3A	Z	-27.239	5.5
12	MP3A	Mx	.01	5.5
13	MP1A	X	7.081	2
14	MP1A	Z	-12.265	2
15	MP1A	Mx	-.004	2
16	MP1A	X	7.081	4
17	MP1A	Z	-12.265	4
18	MP1A	Mx	-.004	4
19	MP3A	X	6.445	3.5
20	MP3A	Z	-11.162	3.5
21	MP3A	Mx	.003	3.5
22	MP4A	X	6.243	3.5
23	MP4A	Z	-10.814	3.5
24	MP4A	Mx	.003	3.5
25	MP5A	X	14.584	.5
26	MP5A	Z	-25.26	.5
27	MP5A	Mx	-.007	.5
28	MP5A	X	14.584	5.5
29	MP5A	Z	-25.26	5.5
30	MP5A	Mx	-.007	5.5
31	MP4A	X	3.242	1
32	MP4A	Z	-5.616	1
33	MP4A	Mx	-.001	1
34	MP4A	X	3.242	1
35	MP4A	Z	-5.616	1
36	MP4A	Mx	.001	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	23.712	.5
2	MP3A	Z	-13.69	.5
3	MP3A	Mx	-.021	.5
4	MP3A	X	23.712	5.5
5	MP3A	Z	-13.69	5.5
6	MP3A	Mx	-.021	5.5
7	MP3A	X	23.712	.5
8	MP3A	Z	-13.69	.5
9	MP3A	Mx	-.003	.5
10	MP3A	X	23.712	5.5
11	MP3A	Z	-13.69	5.5
12	MP3A	Mx	-.003	5.5
13	MP1A	X	8.161	2
14	MP1A	Z	-4.712	2
15	MP1A	Mx	-.004	2
16	MP1A	X	8.161	4
17	MP1A	Z	-4.712	4
18	MP1A	Mx	-.004	4
19	MP3A	X	9.327	3.5
20	MP3A	Z	-5.385	3.5
21	MP3A	Mx	.005	3.5
22	MP4A	X	8.281	3.5
23	MP4A	Z	-4.781	3.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
24	MP4A	Mx	.004	3.5
25	MP5A	X	21.036	.5
26	MP5A	Z	-12.145	.5
27	MP5A	Mx	-.011	.5
28	MP5A	X	21.036	5.5
29	MP5A	Z	-12.145	5.5
30	MP5A	Mx	-.011	5.5
31	MP4A	X	3.549	1
32	MP4A	Z	-2.049	1
33	MP4A	Mx	-.001	1
34	MP4A	X	3.549	1
35	MP4A	Z	-2.049	1
36	MP4A	Mx	.001	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	25.344	.5
2	MP3A	Z	0	.5
3	MP3A	Mx	-.013	.5
4	MP3A	X	25.344	5.5
5	MP3A	Z	0	5.5
6	MP3A	Mx	-.013	5.5
7	MP3A	X	25.344	.5
8	MP3A	Z	0	.5
9	MP3A	Mx	-.013	.5
10	MP3A	X	25.344	5.5
11	MP3A	Z	0	5.5
12	MP3A	Mx	-.013	5.5
13	MP1A	X	7.054	2
14	MP1A	Z	0	2
15	MP1A	Mx	-.004	2
16	MP1A	X	7.054	4
17	MP1A	Z	0	4
18	MP1A	Mx	-.004	4
19	MP3A	X	9.71	3.5
20	MP3A	Z	0	3.5
21	MP3A	Mx	.005	3.5
22	MP4A	X	8.1	3.5
23	MP4A	Z	0	3.5
24	MP4A	Mx	.004	3.5
25	MP5A	X	21.851	.5
26	MP5A	Z	0	.5
27	MP5A	Mx	-.011	.5
28	MP5A	X	21.851	5.5
29	MP5A	Z	0	5.5
30	MP5A	Mx	-.011	5.5
31	MP4A	X	2.905	1
32	MP4A	Z	0	1
33	MP4A	Mx	-.000968	1
34	MP4A	X	2.905	1
35	MP4A	Z	0	1
36	MP4A	Mx	.000968	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	23.712	.5
2	MP3A	Z	13.69	.5
3	MP3A	Mx	-.003	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
4	MP3A	X	23.712	5.5
5	MP3A	Z	13.69	5.5
6	MP3A	Mx	-.003	5.5
7	MP3A	X	23.712	.5
8	MP3A	Z	13.69	.5
9	MP3A	Mx	-.021	.5
10	MP3A	X	23.712	5.5
11	MP3A	Z	13.69	5.5
12	MP3A	Mx	-.021	5.5
13	MP1A	X	8.161	2
14	MP1A	Z	4.712	2
15	MP1A	Mx	-.004	2
16	MP1A	X	8.161	4
17	MP1A	Z	4.712	4
18	MP1A	Mx	-.004	4
19	MP3A	X	9.327	3.5
20	MP3A	Z	5.385	3.5
21	MP3A	Mx	.005	3.5
22	MP4A	X	8.281	3.5
23	MP4A	Z	4.781	3.5
24	MP4A	Mx	.004	3.5
25	MP5A	X	21.036	.5
26	MP5A	Z	12.145	.5
27	MP5A	Mx	-.011	.5
28	MP5A	X	21.036	5.5
29	MP5A	Z	12.145	5.5
30	MP5A	Mx	-.011	5.5
31	MP4A	X	3.549	1
32	MP4A	Z	2.049	1
33	MP4A	Mx	-.001	1
34	MP4A	X	3.549	1
35	MP4A	Z	2.049	1
36	MP4A	Mx	.001	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	15.726	.5
2	MP3A	Z	27.239	.5
3	MP3A	Mx	.01	.5
4	MP3A	X	15.726	5.5
5	MP3A	Z	27.239	5.5
6	MP3A	Mx	.01	5.5
7	MP3A	X	15.726	.5
8	MP3A	Z	27.239	.5
9	MP3A	Mx	-.026	.5
10	MP3A	X	15.726	5.5
11	MP3A	Z	27.239	5.5
12	MP3A	Mx	-.026	5.5
13	MP1A	X	7.081	2
14	MP1A	Z	12.265	2
15	MP1A	Mx	-.004	2
16	MP1A	X	7.081	4
17	MP1A	Z	12.265	4
18	MP1A	Mx	-.004	4
19	MP3A	X	6.445	3.5
20	MP3A	Z	11.162	3.5
21	MP3A	Mx	.003	3.5
22	MP4A	X	6.243	3.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
23	MP4A	Z	10.814	3.5
24	MP4A	Mx	.003	3.5
25	MP5A	X	14.584	.5
26	MP5A	Z	25.26	.5
27	MP5A	Mx	-.007	.5
28	MP5A	X	14.584	5.5
29	MP5A	Z	25.26	5.5
30	MP5A	Mx	-.007	5.5
31	MP4A	X	3.242	1
32	MP4A	Z	5.616	1
33	MP4A	Mx	-.001	1
34	MP4A	X	3.242	1
35	MP4A	Z	5.616	1
36	MP4A	Mx	.001	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	0	.5
2	MP3A	Z	33.489	.5
3	MP3A	Mx	.022	.5
4	MP3A	X	0	5.5
5	MP3A	Z	33.489	5.5
6	MP3A	Mx	.022	5.5
7	MP3A	X	0	.5
8	MP3A	Z	33.489	.5
9	MP3A	Mx	-.022	.5
10	MP3A	X	0	5.5
11	MP3A	Z	33.489	5.5
12	MP3A	Mx	-.022	5.5
13	MP1A	X	0	2
14	MP1A	Z	16.532	2
15	MP1A	Mx	0	2
16	MP1A	X	0	4
17	MP1A	Z	16.532	4
18	MP1A	Mx	0	4
19	MP3A	X	0	3.5
20	MP3A	Z	13.949	3.5
21	MP3A	Mx	0	3.5
22	MP4A	X	0	3.5
23	MP4A	Z	13.949	3.5
24	MP4A	Mx	0	3.5
25	MP5A	X	0	.5
26	MP5A	Z	31.607	.5
27	MP5A	Mx	0	.5
28	MP5A	X	0	5.5
29	MP5A	Z	31.607	5.5
30	MP5A	Mx	0	5.5
31	MP4A	X	0	1
32	MP4A	Z	7.678	1
33	MP4A	Mx	0	1
34	MP4A	X	0	1
35	MP4A	Z	7.678	1
36	MP4A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-15.726	.5
2	MP3A	Z	27.239	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
3	MP3A	Mx	.026	.5
4	MP3A	X	-15.726	5.5
5	MP3A	Z	27.239	5.5
6	MP3A	Mx	.026	5.5
7	MP3A	X	-15.726	.5
8	MP3A	Z	27.239	.5
9	MP3A	Mx	-.01	.5
10	MP3A	X	-15.726	5.5
11	MP3A	Z	27.239	5.5
12	MP3A	Mx	-.01	5.5
13	MP1A	X	-7.081	2
14	MP1A	Z	12.265	2
15	MP1A	Mx	.004	2
16	MP1A	X	-7.081	4
17	MP1A	Z	12.265	4
18	MP1A	Mx	.004	4
19	MP3A	X	-6.445	3.5
20	MP3A	Z	11.162	3.5
21	MP3A	Mx	-.003	3.5
22	MP4A	X	-6.243	3.5
23	MP4A	Z	10.814	3.5
24	MP4A	Mx	-.003	3.5
25	MP5A	X	-14.584	.5
26	MP5A	Z	25.26	.5
27	MP5A	Mx	.007	.5
28	MP5A	X	-14.584	5.5
29	MP5A	Z	25.26	5.5
30	MP5A	Mx	.007	5.5
31	MP4A	X	-3.242	1
32	MP4A	Z	5.616	1
33	MP4A	Mx	.001	1
34	MP4A	X	-3.242	1
35	MP4A	Z	5.616	1
36	MP4A	Mx	-.001	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-23.712	.5
2	MP3A	Z	13.69	.5
3	MP3A	Mx	.021	.5
4	MP3A	X	-23.712	5.5
5	MP3A	Z	13.69	5.5
6	MP3A	Mx	.021	5.5
7	MP3A	X	-23.712	.5
8	MP3A	Z	13.69	.5
9	MP3A	Mx	.003	.5
10	MP3A	X	-23.712	5.5
11	MP3A	Z	13.69	5.5
12	MP3A	Mx	.003	5.5
13	MP1A	X	-8.161	2
14	MP1A	Z	4.712	2
15	MP1A	Mx	.004	2
16	MP1A	X	-8.161	4
17	MP1A	Z	4.712	4
18	MP1A	Mx	.004	4
19	MP3A	X	-9.327	3.5
20	MP3A	Z	5.385	3.5
21	MP3A	Mx	-.005	3.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
22	MP4A	X	-8.281	3.5
23	MP4A	Z	4.781	3.5
24	MP4A	Mx	-.004	3.5
25	MP5A	X	-21.036	.5
26	MP5A	Z	12.145	.5
27	MP5A	Mx	.011	.5
28	MP5A	X	-21.036	5.5
29	MP5A	Z	12.145	5.5
30	MP5A	Mx	.011	5.5
31	MP4A	X	-3.549	1
32	MP4A	Z	2.049	1
33	MP4A	Mx	.001	1
34	MP4A	X	-3.549	1
35	MP4A	Z	2.049	1
36	MP4A	Mx	-.001	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-25.344	.5
2	MP3A	Z	0	.5
3	MP3A	Mx	.013	.5
4	MP3A	X	-25.344	5.5
5	MP3A	Z	0	5.5
6	MP3A	Mx	.013	5.5
7	MP3A	X	-25.344	.5
8	MP3A	Z	0	.5
9	MP3A	Mx	.013	.5
10	MP3A	X	-25.344	5.5
11	MP3A	Z	0	5.5
12	MP3A	Mx	.013	5.5
13	MP1A	X	-7.054	2
14	MP1A	Z	0	2
15	MP1A	Mx	.004	2
16	MP1A	X	-7.054	4
17	MP1A	Z	0	4
18	MP1A	Mx	.004	4
19	MP3A	X	-9.71	3.5
20	MP3A	Z	0	3.5
21	MP3A	Mx	-.005	3.5
22	MP4A	X	-8.1	3.5
23	MP4A	Z	0	3.5
24	MP4A	Mx	-.004	3.5
25	MP5A	X	-21.851	.5
26	MP5A	Z	0	.5
27	MP5A	Mx	.011	.5
28	MP5A	X	-21.851	5.5
29	MP5A	Z	0	5.5
30	MP5A	Mx	.011	5.5
31	MP4A	X	-2.905	1
32	MP4A	Z	0	1
33	MP4A	Mx	.000968	1
34	MP4A	X	-2.905	1
35	MP4A	Z	0	1
36	MP4A	Mx	-.000968	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-23.712	.5





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
2	MP3A	Z	-13.69	.5
3	MP3A	Mx	.003	.5
4	MP3A	X	-23.712	5.5
5	MP3A	Z	-13.69	5.5
6	MP3A	Mx	.003	5.5
7	MP3A	X	-23.712	.5
8	MP3A	Z	-13.69	.5
9	MP3A	Mx	.021	.5
10	MP3A	X	-23.712	5.5
11	MP3A	Z	-13.69	5.5
12	MP3A	Mx	.021	5.5
13	MP1A	X	-8.161	2
14	MP1A	Z	-4.712	2
15	MP1A	Mx	.004	2
16	MP1A	X	-8.161	4
17	MP1A	Z	-4.712	4
18	MP1A	Mx	.004	4
19	MP3A	X	-9.327	3.5
20	MP3A	Z	-5.385	3.5
21	MP3A	Mx	-.005	3.5
22	MP4A	X	-8.281	3.5
23	MP4A	Z	-4.781	3.5
24	MP4A	Mx	-.004	3.5
25	MP5A	X	-21.036	.5
26	MP5A	Z	-12.145	.5
27	MP5A	Mx	.011	.5
28	MP5A	X	-21.036	5.5
29	MP5A	Z	-12.145	5.5
30	MP5A	Mx	.011	5.5
31	MP4A	X	-3.549	1
32	MP4A	Z	-2.049	1
33	MP4A	Mx	.001	1
34	MP4A	X	-3.549	1
35	MP4A	Z	-2.049	1
36	MP4A	Mx	-.001	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-15.726	.5
2	MP3A	Z	-27.239	.5
3	MP3A	Mx	-.01	.5
4	MP3A	X	-15.726	5.5
5	MP3A	Z	-27.239	5.5
6	MP3A	Mx	-.01	5.5
7	MP3A	X	-15.726	.5
8	MP3A	Z	-27.239	.5
9	MP3A	Mx	.026	.5
10	MP3A	X	-15.726	5.5
11	MP3A	Z	-27.239	5.5
12	MP3A	Mx	.026	5.5
13	MP1A	X	-7.081	2
14	MP1A	Z	-12.265	2
15	MP1A	Mx	.004	2
16	MP1A	X	-7.081	4
17	MP1A	Z	-12.265	4
18	MP1A	Mx	.004	4
19	MP3A	X	-6.445	3.5
20	MP3A	Z	-11.162	3.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
21	MP3A	Mx	-.003	3.5
22	MP4A	X	-6.243	3.5
23	MP4A	Z	-10.814	3.5
24	MP4A	Mx	-.003	3.5
25	MP5A	X	-14.584	.5
26	MP5A	Z	-25.26	.5
27	MP5A	Mx	.007	.5
28	MP5A	X	-14.584	5.5
29	MP5A	Z	-25.26	5.5
30	MP5A	Mx	.007	5.5
31	MP4A	X	-3.242	1
32	MP4A	Z	-5.616	1
33	MP4A	Mx	.001	1
34	MP4A	X	-3.242	1
35	MP4A	Z	-5.616	1
36	MP4A	Mx	-.001	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	0	.5
2	MP3A	Z	-.053	.5
3	MP3A	Mx	-3.5e-5	.5
4	MP3A	X	0	5.5
5	MP3A	Z	-.053	5.5
6	MP3A	Mx	-3.5e-5	5.5
7	MP3A	X	0	.5
8	MP3A	Z	-.053	.5
9	MP3A	Mx	3.5e-5	.5
10	MP3A	X	0	5.5
11	MP3A	Z	-.053	5.5
12	MP3A	Mx	3.5e-5	5.5
13	MP1A	X	0	2
14	MP1A	Z	-.044	2
15	MP1A	Mx	0	2
16	MP1A	X	0	4
17	MP1A	Z	-.044	4
18	MP1A	Mx	0	4
19	MP3A	X	0	3.5
20	MP3A	Z	-.035	3.5
21	MP3A	Mx	0	3.5
22	MP4A	X	0	3.5
23	MP4A	Z	-.035	3.5
24	MP4A	Mx	0	3.5
25	MP5A	X	0	.5
26	MP5A	Z	-.103	.5
27	MP5A	Mx	0	.5
28	MP5A	X	0	5.5
29	MP5A	Z	-.103	5.5
30	MP5A	Mx	0	5.5
31	MP4A	X	0	1
32	MP4A	Z	-.021	1
33	MP4A	Mx	0	1
34	MP4A	X	0	1
35	MP4A	Z	-.021	1
36	MP4A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
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**Member Point Loads (BLC 28 : Antenna Wm (30 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	.025	.5
2	MP3A	Z	-.043	.5
3	MP3A	Mx	-4.1e-5	.5
4	MP3A	X	.025	5.5
5	MP3A	Z	-.043	5.5
6	MP3A	Mx	-4.1e-5	5.5
7	MP3A	X	.025	.5
8	MP3A	Z	-.043	.5
9	MP3A	Mx	1.6e-5	.5
10	MP3A	X	.025	5.5
11	MP3A	Z	-.043	5.5
12	MP3A	Mx	1.6e-5	5.5
13	MP1A	X	.018	2
14	MP1A	Z	-.032	2
15	MP1A	Mx	-9e-6	2
16	MP1A	X	.018	4
17	MP1A	Z	-.032	4
18	MP1A	Mx	-9e-6	4
19	MP3A	X	.016	3.5
20	MP3A	Z	-.028	3.5
21	MP3A	Mx	8e-6	3.5
22	MP4A	X	.015	3.5
23	MP4A	Z	-.027	3.5
24	MP4A	Mx	7e-6	3.5
25	MP5A	X	.047	.5
26	MP5A	Z	-.082	.5
27	MP5A	Mx	-2.4e-5	.5
28	MP5A	X	.047	5.5
29	MP5A	Z	-.082	5.5
30	MP5A	Mx	-2.4e-5	5.5
31	MP4A	X	.009	1
32	MP4A	Z	-.015	1
33	MP4A	Mx	-3e-6	1
34	MP4A	X	.009	1
35	MP4A	Z	-.015	1
36	MP4A	Mx	3e-6	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	.037	.5
2	MP3A	Z	-.021	.5
3	MP3A	Mx	-3.3e-5	.5
4	MP3A	X	.037	5.5
5	MP3A	Z	-.021	5.5
6	MP3A	Mx	-3.3e-5	5.5
7	MP3A	X	.037	.5
8	MP3A	Z	-.021	.5
9	MP3A	Mx	-4e-6	.5
10	MP3A	X	.037	5.5
11	MP3A	Z	-.021	5.5
12	MP3A	Mx	-4e-6	5.5
13	MP1A	X	.019	2
14	MP1A	Z	-.011	2
15	MP1A	Mx	-9e-6	2
16	MP1A	X	.019	4
17	MP1A	Z	-.011	4
18	MP1A	Mx	-9e-6	4
19	MP3A	X	.023	3.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
20	MP3A	Z	-.013	3.5
21	MP3A	Mx	1.2e-5	3.5
22	MP4A	X	.02	3.5
23	MP4A	Z	-.011	3.5
24	MP4A	Mx	1e-5	3.5
25	MP5A	X	.067	.5
26	MP5A	Z	-.039	.5
27	MP5A	Mx	-3.4e-5	.5
28	MP5A	X	.067	5.5
29	MP5A	Z	-.039	5.5
30	MP5A	Mx	-3.4e-5	5.5
31	MP4A	X	.009	1
32	MP4A	Z	-.005	1
33	MP4A	Mx	-3e-6	1
34	MP4A	X	.009	1
35	MP4A	Z	-.005	1
36	MP4A	Mx	3e-6	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	.04	.5
2	MP3A	Z	0	.5
3	MP3A	Mx	-2e-5	.5
4	MP3A	X	.04	5.5
5	MP3A	Z	0	5.5
6	MP3A	Mx	-2e-5	5.5
7	MP3A	X	.04	.5
8	MP3A	Z	0	.5
9	MP3A	Mx	-2e-5	.5
10	MP3A	X	.04	5.5
11	MP3A	Z	0	5.5
12	MP3A	Mx	-2e-5	5.5
13	MP1A	X	.015	2
14	MP1A	Z	0	2
15	MP1A	Mx	-7e-6	2
16	MP1A	X	.015	4
17	MP1A	Z	0	4
18	MP1A	Mx	-7e-6	4
19	MP3A	X	.023	3.5
20	MP3A	Z	0	3.5
21	MP3A	Mx	1.2e-5	3.5
22	MP4A	X	.019	3.5
23	MP4A	Z	0	3.5
24	MP4A	Mx	9e-6	3.5
25	MP5A	X	.069	.5
26	MP5A	Z	0	.5
27	MP5A	Mx	-3.5e-5	.5
28	MP5A	X	.069	5.5
29	MP5A	Z	0	5.5
30	MP5A	Mx	-3.5e-5	5.5
31	MP4A	X	.007	1
32	MP4A	Z	0	1
33	MP4A	Mx	-2e-6	1
34	MP4A	X	.007	1
35	MP4A	Z	0	1
36	MP4A	Mx	2e-6	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	.037	.5
2	MP3A	Z	.021	.5
3	MP3A	Mx	-4e-6	.5
4	MP3A	X	.037	5.5
5	MP3A	Z	.021	5.5
6	MP3A	Mx	-4e-6	5.5
7	MP3A	X	.037	.5
8	MP3A	Z	.021	.5
9	MP3A	Mx	-3.3e-5	.5
10	MP3A	X	.037	5.5
11	MP3A	Z	.021	5.5
12	MP3A	Mx	-3.3e-5	5.5
13	MP1A	X	.019	2
14	MP1A	Z	.011	2
15	MP1A	Mx	-9e-6	2
16	MP1A	X	.019	4
17	MP1A	Z	.011	4
18	MP1A	Mx	-9e-6	4
19	MP3A	X	.023	3.5
20	MP3A	Z	.013	3.5
21	MP3A	Mx	1.2e-5	3.5
22	MP4A	X	.02	3.5
23	MP4A	Z	.011	3.5
24	MP4A	Mx	1e-5	3.5
25	MP5A	X	.067	.5
26	MP5A	Z	.039	.5
27	MP5A	Mx	-3.4e-5	.5
28	MP5A	X	.067	5.5
29	MP5A	Z	.039	5.5
30	MP5A	Mx	-3.4e-5	5.5
31	MP4A	X	.009	1
32	MP4A	Z	.005	1
33	MP4A	Mx	-3e-6	1
34	MP4A	X	.009	1
35	MP4A	Z	.005	1
36	MP4A	Mx	3e-6	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	.025	.5
2	MP3A	Z	.043	.5
3	MP3A	Mx	1.6e-5	.5
4	MP3A	X	.025	5.5
5	MP3A	Z	.043	5.5
6	MP3A	Mx	1.6e-5	5.5
7	MP3A	X	.025	.5
8	MP3A	Z	.043	.5
9	MP3A	Mx	-4.1e-5	.5
10	MP3A	X	.025	5.5
11	MP3A	Z	.043	5.5
12	MP3A	Mx	-4.1e-5	5.5
13	MP1A	X	.018	2
14	MP1A	Z	.032	2
15	MP1A	Mx	-9e-6	2
16	MP1A	X	.018	4
17	MP1A	Z	.032	4
18	MP1A	Mx	-9e-6	4
19	MP3A	X	.016	3.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
20	MP3A	Z	.028	3.5
21	MP3A	Mx	8e-6	3.5
22	MP4A	X	.015	3.5
23	MP4A	Z	.027	3.5
24	MP4A	Mx	7e-6	3.5
25	MP5A	X	.047	.5
26	MP5A	Z	.082	.5
27	MP5A	Mx	-2.4e-5	.5
28	MP5A	X	.047	5.5
29	MP5A	Z	.082	5.5
30	MP5A	Mx	-2.4e-5	5.5
31	MP4A	X	.009	1
32	MP4A	Z	.015	1
33	MP4A	Mx	-3e-6	1
34	MP4A	X	.009	1
35	MP4A	Z	.015	1
36	MP4A	Mx	3e-6	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	0	.5
2	MP3A	Z	.053	.5
3	MP3A	Mx	3.5e-5	.5
4	MP3A	X	0	5.5
5	MP3A	Z	.053	5.5
6	MP3A	Mx	3.5e-5	5.5
7	MP3A	X	0	.5
8	MP3A	Z	.053	.5
9	MP3A	Mx	-3.5e-5	.5
10	MP3A	X	0	5.5
11	MP3A	Z	.053	5.5
12	MP3A	Mx	-3.5e-5	5.5
13	MP1A	X	0	2
14	MP1A	Z	.044	2
15	MP1A	Mx	0	2
16	MP1A	X	0	4
17	MP1A	Z	.044	4
18	MP1A	Mx	0	4
19	MP3A	X	0	3.5
20	MP3A	Z	.035	3.5
21	MP3A	Mx	0	3.5
22	MP4A	X	0	3.5
23	MP4A	Z	.035	3.5
24	MP4A	Mx	0	3.5
25	MP5A	X	0	.5
26	MP5A	Z	.103	.5
27	MP5A	Mx	0	.5
28	MP5A	X	0	5.5
29	MP5A	Z	.103	5.5
30	MP5A	Mx	0	5.5
31	MP4A	X	0	1
32	MP4A	Z	.021	1
33	MP4A	Mx	0	1
34	MP4A	X	0	1
35	MP4A	Z	.021	1
36	MP4A	Mx	0	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-.025	.5
2	MP3A	Z	.043	.5
3	MP3A	Mx	4.1e-5	.5
4	MP3A	X	-.025	5.5
5	MP3A	Z	.043	5.5
6	MP3A	Mx	4.1e-5	5.5
7	MP3A	X	-.025	.5
8	MP3A	Z	.043	.5
9	MP3A	Mx	-1.6e-5	.5
10	MP3A	X	-.025	5.5
11	MP3A	Z	.043	5.5
12	MP3A	Mx	-1.6e-5	5.5
13	MP1A	X	-.018	2
14	MP1A	Z	.032	2
15	MP1A	Mx	9e-6	2
16	MP1A	X	-.018	4
17	MP1A	Z	.032	4
18	MP1A	Mx	9e-6	4
19	MP3A	X	-.016	3.5
20	MP3A	Z	.028	3.5
21	MP3A	Mx	-8e-6	3.5
22	MP4A	X	-.015	3.5
23	MP4A	Z	.027	3.5
24	MP4A	Mx	-7e-6	3.5
25	MP5A	X	-.047	.5
26	MP5A	Z	.082	.5
27	MP5A	Mx	2.4e-5	.5
28	MP5A	X	-.047	5.5
29	MP5A	Z	.082	5.5
30	MP5A	Mx	2.4e-5	5.5
31	MP4A	X	-.009	1
32	MP4A	Z	.015	1
33	MP4A	Mx	3e-6	1
34	MP4A	X	-.009	1
35	MP4A	Z	.015	1
36	MP4A	Mx	-3e-6	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-.037	.5
2	MP3A	Z	.021	.5
3	MP3A	Mx	3.3e-5	.5
4	MP3A	X	-.037	5.5
5	MP3A	Z	.021	5.5
6	MP3A	Mx	3.3e-5	5.5
7	MP3A	X	-.037	.5
8	MP3A	Z	.021	.5
9	MP3A	Mx	4e-6	.5
10	MP3A	X	-.037	5.5
11	MP3A	Z	.021	5.5
12	MP3A	Mx	4e-6	5.5
13	MP1A	X	-.019	2
14	MP1A	Z	.011	2
15	MP1A	Mx	9e-6	2
16	MP1A	X	-.019	4
17	MP1A	Z	.011	4
18	MP1A	Mx	9e-6	4
19	MP3A	X	-.023	3.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
20	MP3A	Z	.013	3.5
21	MP3A	Mx	-1.2e-5	3.5
22	MP4A	X	-.02	3.5
23	MP4A	Z	.011	3.5
24	MP4A	Mx	-1e-5	3.5
25	MP5A	X	-.067	.5
26	MP5A	Z	.039	.5
27	MP5A	Mx	3.4e-5	.5
28	MP5A	X	-.067	5.5
29	MP5A	Z	.039	5.5
30	MP5A	Mx	3.4e-5	5.5
31	MP4A	X	-.009	1
32	MP4A	Z	.005	1
33	MP4A	Mx	3e-6	1
34	MP4A	X	-.009	1
35	MP4A	Z	.005	1
36	MP4A	Mx	-3e-6	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-.04	.5
2	MP3A	Z	0	.5
3	MP3A	Mx	2e-5	.5
4	MP3A	X	-.04	5.5
5	MP3A	Z	0	5.5
6	MP3A	Mx	2e-5	5.5
7	MP3A	X	-.04	.5
8	MP3A	Z	0	.5
9	MP3A	Mx	2e-5	.5
10	MP3A	X	-.04	5.5
11	MP3A	Z	0	5.5
12	MP3A	Mx	2e-5	5.5
13	MP1A	X	-.015	2
14	MP1A	Z	0	2
15	MP1A	Mx	7e-6	2
16	MP1A	X	-.015	4
17	MP1A	Z	0	4
18	MP1A	Mx	7e-6	4
19	MP3A	X	-.023	3.5
20	MP3A	Z	0	3.5
21	MP3A	Mx	-1.2e-5	3.5
22	MP4A	X	-.019	3.5
23	MP4A	Z	0	3.5
24	MP4A	Mx	-9e-6	3.5
25	MP5A	X	-.069	.5
26	MP5A	Z	0	.5
27	MP5A	Mx	3.5e-5	.5
28	MP5A	X	-.069	5.5
29	MP5A	Z	0	5.5
30	MP5A	Mx	3.5e-5	5.5
31	MP4A	X	-.007	1
32	MP4A	Z	0	1
33	MP4A	Mx	2e-6	1
34	MP4A	X	-.007	1
35	MP4A	Z	0	1
36	MP4A	Mx	-2e-6	1





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-.037	.5
2	MP3A	Z	-.021	.5
3	MP3A	Mx	4e-6	.5
4	MP3A	X	-.037	5.5
5	MP3A	Z	-.021	5.5
6	MP3A	Mx	4e-6	5.5
7	MP3A	X	-.037	.5
8	MP3A	Z	-.021	.5
9	MP3A	Mx	3.3e-5	.5
10	MP3A	X	-.037	5.5
11	MP3A	Z	-.021	5.5
12	MP3A	Mx	3.3e-5	5.5
13	MP1A	X	-.019	2
14	MP1A	Z	-.011	2
15	MP1A	Mx	9e-6	2
16	MP1A	X	-.019	4
17	MP1A	Z	-.011	4
18	MP1A	Mx	9e-6	4
19	MP3A	X	-.023	3.5
20	MP3A	Z	-.013	3.5
21	MP3A	Mx	-1.2e-5	3.5
22	MP4A	X	-.02	3.5
23	MP4A	Z	-.011	3.5
24	MP4A	Mx	-1e-5	3.5
25	MP5A	X	-.067	.5
26	MP5A	Z	-.039	.5
27	MP5A	Mx	3.4e-5	.5
28	MP5A	X	-.067	5.5
29	MP5A	Z	-.039	5.5
30	MP5A	Mx	3.4e-5	5.5
31	MP4A	X	-.009	1
32	MP4A	Z	-.005	1
33	MP4A	Mx	3e-6	1
34	MP4A	X	-.009	1
35	MP4A	Z	-.005	1
36	MP4A	Mx	-3e-6	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-.025	.5
2	MP3A	Z	-.043	.5
3	MP3A	Mx	-1.6e-5	.5
4	MP3A	X	-.025	5.5
5	MP3A	Z	-.043	5.5
6	MP3A	Mx	-1.6e-5	5.5
7	MP3A	X	-.025	.5
8	MP3A	Z	-.043	.5
9	MP3A	Mx	4.1e-5	.5
10	MP3A	X	-.025	5.5
11	MP3A	Z	-.043	5.5
12	MP3A	Mx	4.1e-5	5.5
13	MP1A	X	-.018	2
14	MP1A	Z	-.032	2
15	MP1A	Mx	9e-6	2
16	MP1A	X	-.018	4
17	MP1A	Z	-.032	4
18	MP1A	Mx	9e-6	4
19	MP3A	X	-.016	3.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
20	MP3A	Z	-.028	3.5
21	MP3A	Mx	-8e-6	3.5
22	MP4A	X	-.015	3.5
23	MP4A	Z	-.027	3.5
24	MP4A	Mx	-7e-6	3.5
25	MP5A	X	-.047	.5
26	MP5A	Z	-.082	.5
27	MP5A	Mx	2.4e-5	.5
28	MP5A	X	-.047	5.5
29	MP5A	Z	-.082	5.5
30	MP5A	Mx	2.4e-5	5.5
31	MP4A	X	-.009	1
32	MP4A	Z	-.015	1
33	MP4A	Mx	3e-6	1
34	MP4A	X	-.009	1
35	MP4A	Z	-.015	1
36	MP4A	Mx	-3e-6	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M10	Y	-500	%97

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M10	Y	-500	%62

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M10	Y	-250	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M10	Y	-250	%50

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	Y	-1.011	.5
2	MP3A	My	-.000505	.5
3	MP3A	Mz	.000674	.5
4	MP3A	Y	-1.011	5.5
5	MP3A	My	-.000505	5.5
6	MP3A	Mz	.000674	5.5
7	MP3A	Y	-1.011	.5
8	MP3A	My	-.000505	.5
9	MP3A	Mz	-.000674	.5
10	MP3A	Y	-1.011	5.5
11	MP3A	My	-.000505	5.5
12	MP3A	Mz	-.000674	5.5
13	MP1A	Y	-1.914	2
14	MP1A	My	-.000957	2
15	MP1A	Mz	0	2
16	MP1A	Y	-1.914	4
17	MP1A	My	-.000957	4
18	MP1A	Mz	0	4
19	MP3A	Y	-3.709	3.5
20	MP3A	My	.002	3.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
21	MP3A	Mz	0	3.5
22	MP4A	Y	-3.089	3.5
23	MP4A	My	.002	3.5
24	MP4A	Mz	0	3.5
25	MP5A	Y	-1.009	.5
26	MP5A	My	-.000504	.5
27	MP5A	Mz	0	.5
28	MP5A	Y	-1.009	5.5
29	MP5A	My	-.000504	5.5
30	MP5A	Mz	0	5.5
31	MP4A	Y	-.773	1
32	MP4A	My	-.000258	1
33	MP4A	Mz	0	1
34	MP4A	Y	-.773	1
35	MP4A	My	.000258	1
36	MP4A	Mz	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	Z	-2.527	.5
2	MP3A	Mx	-.002	.5
3	MP3A	Z	-2.527	5.5
4	MP3A	Mx	-.002	5.5
5	MP3A	Z	-2.527	.5
6	MP3A	Mx	.002	.5
7	MP3A	Z	-2.527	5.5
8	MP3A	Mx	.002	5.5
9	MP1A	Z	-4.785	2
10	MP1A	Mx	0	2
11	MP1A	Z	-4.785	4
12	MP1A	Mx	0	4
13	MP3A	Z	-9.273	3.5
14	MP3A	Mx	0	3.5
15	MP4A	Z	-7.724	3.5
16	MP4A	Mx	0	3.5
17	MP5A	Z	-2.521	.5
18	MP5A	Mx	0	.5
19	MP5A	Z	-2.521	5.5
20	MP5A	Mx	0	5.5
21	MP4A	Z	-1.934	1
22	MP4A	Mx	0	1
23	MP4A	Z	-1.934	1
24	MP4A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	2.527	.5
2	MP3A	Mx	-.001	.5
3	MP3A	X	2.527	5.5
4	MP3A	Mx	-.001	5.5
5	MP3A	X	2.527	.5
6	MP3A	Mx	-.001	.5
7	MP3A	X	2.527	5.5
8	MP3A	Mx	-.001	5.5
9	MP1A	X	4.785	2
10	MP1A	Mx	-.002	2
11	MP1A	X	4.785	4
12	MP1A	Mx	-.002	4



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
13	MP3A	X	9.273	3.5
14	MP3A	Mx	.005	3.5
15	MP4A	X	7.724	3.5
16	MP4A	Mx	.004	3.5
17	MP5A	X	2.521	.5
18	MP5A	Mx	-.001	.5
19	MP5A	X	2.521	5.5
20	MP5A	Mx	-.001	5.5
21	MP4A	X	1.934	1
22	MP4A	Mx	-.000645	1
23	MP4A	X	1.934	1
24	MP4A	Mx	.000645	1

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	Y	-8.885	-8.885	0	%100
2	M3	Y	-8.885	-8.885	0	%100
3	M5	Y	-6.042	-6.042	0	%100
4	M6	Y	-6.042	-6.042	0	%100
5	M7	Y	-5.828	-5.828	0	%100
6	M8	Y	-6.042	-6.042	0	%100
7	M9	Y	-6.042	-6.042	0	%100
8	M10	Y	-5.828	-5.828	0	%100
9	OVP	Y	-5.109	-5.109	0	%100
10	M12	Y	-5.109	-5.109	0	%100
11	M13	Y	-5.109	-5.109	0	%100
12	M14	Y	-5.109	-5.109	0	%100
13	M15	Y	-6.042	-6.042	0	%100
14	M16	Y	-3.491	-3.491	0	%100
15	M17	Y	-6.042	-6.042	0	%100
16	M18	Y	-3.491	-3.491	0	%100
17	M19	Y	-6.042	-6.042	0	%100
18	M20	Y	-6.042	-6.042	0	%100
19	M21	Y	-6.042	-6.042	0	%100
20	M22	Y	-3.491	-3.491	0	%100
21	M23	Y	-3.491	-3.491	0	%100
22	M24	Y	-5.109	-5.109	0	%100
23	M25	Y	-6.042	-6.042	0	%100
24	M26	Y	-6.042	-6.042	0	%100
25	M27	Y	-3.491	-3.491	0	%100
26	M28	Y	-6.042	-6.042	0	%100
27	M29	Y	-3.491	-3.491	0	%100
28	M30	Y	-6.042	-6.042	0	%100
29	M31	Y	-6.042	-6.042	0	%100
30	M32	Y	-6.042	-6.042	0	%100
31	M33	Y	-3.491	-3.491	0	%100
32	M34	Y	-3.491	-3.491	0	%100
33	M35	Y	-5.109	-5.109	0	%100
34	M36	Y	-6.042	-6.042	0	%100
35	MP6A	Y	-5.109	-5.109	0	%100
36	MP5A	Y	-5.109	-5.109	0	%100
37	MP3A	Y	-5.828	-5.828	0	%100
38	MP1A	Y	-5.109	-5.109	0	%100
39	MP4A	Y	-5.109	-5.109	0	%100
40	MP2A	Y	-5.109	-5.109	0	%100
41	M55	Y	-6.727	-6.727	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	-11.648	-11.648	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	-11.648	-11.648	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	-714	-714	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	-714	-714	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	-11.163	-11.163	0	%100
11	M8	X	0	0	0	%100
12	M8	Z	-714	-714	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	-714	-714	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	-11.163	-11.163	0	%100
17	OVP	X	0	0	0	%100
18	OVP	Z	-4.523	-4.523	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	-4.523	-4.523	0	%100
21	M13	X	0	0	0	%100
22	M13	Z	-4.523	-4.523	0	%100
23	M14	X	0	0	0	%100
24	M14	Z	-4.523	-4.523	0	%100
25	M15	X	0	0	0	%100
26	M15	Z	-1.537	-1.537	0	%100
27	M16	X	0	0	0	%100
28	M16	Z	-4.029	-4.029	0	%100
29	M17	X	0	0	0	%100
30	M17	Z	-1.537	-1.537	0	%100
31	M18	X	0	0	0	%100
32	M18	Z	-4.029	-4.029	0	%100
33	M19	X	0	0	0	%100
34	M19	Z	-1.847	-1.847	0	%100
35	M20	X	0	0	0	%100
36	M20	Z	-1.537	-1.537	0	%100
37	M21	X	0	0	0	%100
38	M21	Z	-1.537	-1.537	0	%100
39	M22	X	0	0	0	%100
40	M22	Z	-4.853	-4.853	0	%100
41	M23	X	0	0	0	%100
42	M23	Z	-4.853	-4.853	0	%100
43	M24	X	0	0	0	%100
44	M24	Z	-7.325	-7.325	0	%100
45	M25	X	0	0	0	%100
46	M25	Z	-1.847	-1.847	0	%100
47	M26	X	0	0	0	%100
48	M26	Z	-1.537	-1.537	0	%100
49	M27	X	0	0	0	%100
50	M27	Z	-4.029	-4.029	0	%100
51	M28	X	0	0	0	%100
52	M28	Z	-1.537	-1.537	0	%100
53	M29	X	0	0	0	%100
54	M29	Z	-4.029	-4.029	0	%100
55	M30	X	0	0	0	%100
56	M30	Z	-1.847	-1.847	0	%100
57	M31	X	0	0	0	%100
58	M31	Z	-1.537	-1.537	0	%100
59	M32	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
60	M32	Z	-1.537	-1.537	0	%100
61	M33	X	0	0	0	%100
62	M33	Z	-4.853	-4.853	0	%100
63	M34	X	0	0	0	%100
64	M34	Z	-4.853	-4.853	0	%100
65	M35	X	0	0	0	%100
66	M35	Z	-7.325	-7.325	0	%100
67	M36	X	0	0	0	%100
68	M36	Z	-1.847	-1.847	0	%100
69	MP6A	X	0	0	0	%100
70	MP6A	Z	-9.221	-9.221	0	%100
71	MP5A	X	0	0	0	%100
72	MP5A	Z	-9.221	-9.221	0	%100
73	MP3A	X	0	0	0	%100
74	MP3A	Z	-11.163	-11.163	0	%100
75	MP1A	X	0	0	0	%100
76	MP1A	Z	-9.221	-9.221	0	%100
77	MP4A	X	0	0	0	%100
78	MP4A	Z	-9.221	-9.221	0	%100
79	MP2A	X	0	0	0	%100
80	MP2A	Z	-9.221	-9.221	0	%100
81	M55	X	0	0	0	%100
82	M55	Z	-2.592	-2.592	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	4.368	4.368	0	%100
2	M1	Z	-7.566	-7.566	0	%100
3	M3	X	4.368	4.368	0	%100
4	M3	Z	-7.566	-7.566	0	%100
5	M5	X	.045	.045	0	%100
6	M5	Z	-.079	-.079	0	%100
7	M6	X	.676	.676	0	%100
8	M6	Z	-1.17	-1.17	0	%100
9	M7	X	4.186	4.186	0	%100
10	M7	Z	-7.25	-7.25	0	%100
11	M8	X	.045	.045	0	%100
12	M8	Z	-.079	-.079	0	%100
13	M9	X	.676	.676	0	%100
14	M9	Z	-1.17	-1.17	0	%100
15	M10	X	4.186	4.186	0	%100
16	M10	Z	-7.25	-7.25	0	%100
17	OVP	X	.287	.287	0	%100
18	OVP	Z	-.498	-.498	0	%100
19	M12	X	4.28	4.28	0	%100
20	M12	Z	-7.412	-7.412	0	%100
21	M13	X	.287	.287	0	%100
22	M13	Z	-.498	-.498	0	%100
23	M14	X	4.28	4.28	0	%100
24	M14	Z	-7.412	-7.412	0	%100
25	M15	X	2.032	2.032	0	%100
26	M15	Z	-3.52	-3.52	0	%100
27	M16	X	2.369	2.369	0	%100
28	M16	Z	-4.102	-4.102	0	%100
29	M17	X	2.032	2.032	0	%100
30	M17	Z	-3.52	-3.52	0	%100
31	M18	X	2.369	2.369	0	%100
32	M18	Z	-4.102	-4.102	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
33	M19	X	2.149	2.149	0	%100
34	M19	Z	-3.722	-3.722	0	%100
35	M20	X	2.032	2.032	0	%100
36	M20	Z	-3.52	-3.52	0	%100
37	M21	X	2.032	2.032	0	%100
38	M21	Z	-3.52	-3.52	0	%100
39	M22	X	2.427	2.427	0	%100
40	M22	Z	-4.203	-4.203	0	%100
41	M23	X	2.427	2.427	0	%100
42	M23	Z	-4.203	-4.203	0	%100
43	M24	X	3.662	3.662	0	%100
44	M24	Z	-6.344	-6.344	0	%100
45	M25	X	2.149	2.149	0	%100
46	M25	Z	-3.722	-3.722	0	%100
47	M26	X	2.032	2.032	0	%100
48	M26	Z	-3.52	-3.52	0	%100
49	M27	X	1.668	1.668	0	%100
50	M27	Z	-2.889	-2.889	0	%100
51	M28	X	2.032	2.032	0	%100
52	M28	Z	-3.52	-3.52	0	%100
53	M29	X	1.668	1.668	0	%100
54	M29	Z	-2.889	-2.889	0	%100
55	M30	X	2.149	2.149	0	%100
56	M30	Z	-3.722	-3.722	0	%100
57	M31	X	2.032	2.032	0	%100
58	M31	Z	-3.52	-3.52	0	%100
59	M32	X	2.032	2.032	0	%100
60	M32	Z	-3.52	-3.52	0	%100
61	M33	X	2.427	2.427	0	%100
62	M33	Z	-4.203	-4.203	0	%100
63	M34	X	2.427	2.427	0	%100
64	M34	Z	-4.203	-4.203	0	%100
65	M35	X	3.662	3.662	0	%100
66	M35	Z	-6.344	-6.344	0	%100
67	M36	X	2.149	2.149	0	%100
68	M36	Z	-3.722	-3.722	0	%100
69	MP6A	X	4.611	4.611	0	%100
70	MP6A	Z	-7.986	-7.986	0	%100
71	MP5A	X	4.611	4.611	0	%100
72	MP5A	Z	-7.986	-7.986	0	%100
73	MP3A	X	5.581	5.581	0	%100
74	MP3A	Z	-9.667	-9.667	0	%100
75	MP1A	X	4.611	4.611	0	%100
76	MP1A	Z	-7.986	-7.986	0	%100
77	MP4A	X	4.611	4.611	0	%100
78	MP4A	Z	-7.986	-7.986	0	%100
79	MP2A	X	4.611	4.611	0	%100
80	MP2A	Z	-7.986	-7.986	0	%100
81	M55	X	4.469	4.469	0	%100
82	M55	Z	-7.74	-7.74	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	2.522	2.522	0	%100
2	M1	Z	-1.456	-1.456	0	%100
3	M3	X	2.522	2.522	0	%100
4	M3	Z	-1.456	-1.456	0	%100
5	M5	X	.091	.091	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft...]	Start Location[ft.%]	End Location[ft.%]
6	M5	Z	-.052	-.052	0	%100
7	M6	X	1.182	1.182	0	%100
8	M6	Z	-.683	-.683	0	%100
9	M7	X	2.417	2.417	0	%100
10	M7	Z	-1.395	-1.395	0	%100
11	M8	X	.091	.091	0	%100
12	M8	Z	-.052	-.052	0	%100
13	M9	X	1.182	1.182	0	%100
14	M9	Z	-.683	-.683	0	%100
15	M10	X	2.417	2.417	0	%100
16	M10	Z	-1.395	-1.395	0	%100
17	OVP	X	.574	.574	0	%100
18	OVP	Z	-.331	-.331	0	%100
19	M12	X	7.488	7.488	0	%100
20	M12	Z	-4.323	-4.323	0	%100
21	M13	X	.574	.574	0	%100
22	M13	Z	-.331	-.331	0	%100
23	M14	X	7.488	7.488	0	%100
24	M14	Z	-4.323	-4.323	0	%100
25	M15	X	7.898	7.898	0	%100
26	M15	Z	-4.56	-4.56	0	%100
27	M16	X	4.116	4.116	0	%100
28	M16	Z	-2.376	-2.376	0	%100
29	M17	X	7.898	7.898	0	%100
30	M17	Z	-4.56	-4.56	0	%100
31	M18	X	4.116	4.116	0	%100
32	M18	Z	-2.376	-2.376	0	%100
33	M19	X	7.966	7.966	0	%100
34	M19	Z	-4.599	-4.599	0	%100
35	M20	X	7.898	7.898	0	%100
36	M20	Z	-4.56	-4.56	0	%100
37	M21	X	7.898	7.898	0	%100
38	M21	Z	-4.56	-4.56	0	%100
39	M22	X	4.203	4.203	0	%100
40	M22	Z	-2.427	-2.427	0	%100
41	M23	X	4.203	4.203	0	%100
42	M23	Z	-2.427	-2.427	0	%100
43	M24	X	6.344	6.344	0	%100
44	M24	Z	-3.662	-3.662	0	%100
45	M25	X	7.966	7.966	0	%100
46	M25	Z	-4.599	-4.599	0	%100
47	M26	X	7.898	7.898	0	%100
48	M26	Z	-4.56	-4.56	0	%100
49	M27	X	2.902	2.902	0	%100
50	M27	Z	-1.676	-1.676	0	%100
51	M28	X	7.898	7.898	0	%100
52	M28	Z	-4.56	-4.56	0	%100
53	M29	X	2.902	2.902	0	%100
54	M29	Z	-1.676	-1.676	0	%100
55	M30	X	7.966	7.966	0	%100
56	M30	Z	-4.599	-4.599	0	%100
57	M31	X	7.898	7.898	0	%100
58	M31	Z	-4.56	-4.56	0	%100
59	M32	X	7.898	7.898	0	%100
60	M32	Z	-4.56	-4.56	0	%100
61	M33	X	4.203	4.203	0	%100
62	M33	Z	-2.427	-2.427	0	%100
63	M34	X	4.203	4.203	0	%100
64	M34	Z	-2.427	-2.427	0	%100





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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
65	M35	X	6.344	6.344	0	%100
66	M35	Z	-3.662	-3.662	0	%100
67	M36	X	7.966	7.966	0	%100
68	M36	Z	-4.599	-4.599	0	%100
69	MP6A	X	7.986	7.986	0	%100
70	MP6A	Z	-4.611	-4.611	0	%100
71	MP5A	X	7.986	7.986	0	%100
72	MP5A	Z	-4.611	-4.611	0	%100
73	MP3A	X	9.667	9.667	0	%100
74	MP3A	Z	-5.581	-5.581	0	%100
75	MP1A	X	7.986	7.986	0	%100
76	MP1A	Z	-4.611	-4.611	0	%100
77	MP4A	X	7.986	7.986	0	%100
78	MP4A	Z	-4.611	-4.611	0	%100
79	MP2A	X	7.986	7.986	0	%100
80	MP2A	Z	-4.611	-4.611	0	%100
81	M55	X	11.616	11.616	0	%100
82	M55	Z	-6.707	-6.707	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	0	0	0	%100
5	M5	X	.742	.742	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	.742	.742	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M8	X	.742	.742	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	.742	.742	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	0	0	0	%100
17	OVP	X	4.699	4.699	0	%100
18	OVP	Z	0	0	0	%100
19	M12	X	4.699	4.699	0	%100
20	M12	Z	0	0	0	%100
21	M13	X	4.699	4.699	0	%100
22	M13	Z	0	0	0	%100
23	M14	X	4.699	4.699	0	%100
24	M14	Z	0	0	0	%100
25	M15	X	11.648	11.648	0	%100
26	M15	Z	0	0	0	%100
27	M16	X	4.06	4.06	0	%100
28	M16	Z	0	0	0	%100
29	M17	X	11.648	11.648	0	%100
30	M17	Z	0	0	0	%100
31	M18	X	4.06	4.06	0	%100
32	M18	Z	0	0	0	%100
33	M19	X	11.648	11.648	0	%100
34	M19	Z	0	0	0	%100
35	M20	X	11.648	11.648	0	%100
36	M20	Z	0	0	0	%100
37	M21	X	11.648	11.648	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
38	M21	Z	0	0	0	%100
39	M22	X	4.853	4.853	0	%100
40	M22	Z	0	0	0	%100
41	M23	X	4.853	4.853	0	%100
42	M23	Z	0	0	0	%100
43	M24	X	7.325	7.325	0	%100
44	M24	Z	0	0	0	%100
45	M25	X	11.648	11.648	0	%100
46	M25	Z	0	0	0	%100
47	M26	X	11.648	11.648	0	%100
48	M26	Z	0	0	0	%100
49	M27	X	4.06	4.06	0	%100
50	M27	Z	0	0	0	%100
51	M28	X	11.648	11.648	0	%100
52	M28	Z	0	0	0	%100
53	M29	X	4.06	4.06	0	%100
54	M29	Z	0	0	0	%100
55	M30	X	11.648	11.648	0	%100
56	M30	Z	0	0	0	%100
57	M31	X	11.648	11.648	0	%100
58	M31	Z	0	0	0	%100
59	M32	X	11.648	11.648	0	%100
60	M32	Z	0	0	0	%100
61	M33	X	4.853	4.853	0	%100
62	M33	Z	0	0	0	%100
63	M34	X	4.853	4.853	0	%100
64	M34	Z	0	0	0	%100
65	M35	X	7.325	7.325	0	%100
66	M35	Z	0	0	0	%100
67	M36	X	11.648	11.648	0	%100
68	M36	Z	0	0	0	%100
69	MP6A	X	9.221	9.221	0	%100
70	MP6A	Z	0	0	0	%100
71	MP5A	X	9.221	9.221	0	%100
72	MP5A	Z	0	0	0	%100
73	MP3A	X	11.163	11.163	0	%100
74	MP3A	Z	0	0	0	%100
75	MP1A	X	9.221	9.221	0	%100
76	MP1A	Z	0	0	0	%100
77	MP4A	X	9.221	9.221	0	%100
78	MP4A	Z	0	0	0	%100
79	MP2A	X	9.221	9.221	0	%100
80	MP2A	Z	0	0	0	%100
81	M55	X	11.544	11.544	0	%100
82	M55	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	2.522	2.522	0	%100
2	M1	Z	1.456	1.456	0	%100
3	M3	X	2.522	2.522	0	%100
4	M3	Z	1.456	1.456	0	%100
5	M5	X	1.182	1.182	0	%100
6	M5	Z	.683	.683	0	%100
7	M6	X	.091	.091	0	%100
8	M6	Z	.052	.052	0	%100
9	M7	X	2.417	2.417	0	%100
10	M7	Z	1.395	1.395	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
11	M8	X	1.182	1.182	0	%100
12	M8	Z	.683	.683	0	%100
13	M9	X	.091	.091	0	%100
14	M9	Z	.052	.052	0	%100
15	M10	X	2.417	2.417	0	%100
16	M10	Z	1.395	1.395	0	%100
17	OVP	X	7.488	7.488	0	%100
18	OVP	Z	4.323	4.323	0	%100
19	M12	X	.574	.574	0	%100
20	M12	Z	.331	.331	0	%100
21	M13	X	7.488	7.488	0	%100
22	M13	Z	4.323	4.323	0	%100
23	M14	X	.574	.574	0	%100
24	M14	Z	.331	.331	0	%100
25	M15	X	7.898	7.898	0	%100
26	M15	Z	4.56	4.56	0	%100
27	M16	X	2.902	2.902	0	%100
28	M16	Z	1.676	1.676	0	%100
29	M17	X	7.898	7.898	0	%100
30	M17	Z	4.56	4.56	0	%100
31	M18	X	2.902	2.902	0	%100
32	M18	Z	1.676	1.676	0	%100
33	M19	X	7.966	7.966	0	%100
34	M19	Z	4.599	4.599	0	%100
35	M20	X	7.898	7.898	0	%100
36	M20	Z	4.56	4.56	0	%100
37	M21	X	7.898	7.898	0	%100
38	M21	Z	4.56	4.56	0	%100
39	M22	X	4.203	4.203	0	%100
40	M22	Z	2.427	2.427	0	%100
41	M23	X	4.203	4.203	0	%100
42	M23	Z	2.427	2.427	0	%100
43	M24	X	6.344	6.344	0	%100
44	M24	Z	3.662	3.662	0	%100
45	M25	X	7.966	7.966	0	%100
46	M25	Z	4.599	4.599	0	%100
47	M26	X	7.898	7.898	0	%100
48	M26	Z	4.56	4.56	0	%100
49	M27	X	4.116	4.116	0	%100
50	M27	Z	2.376	2.376	0	%100
51	M28	X	7.898	7.898	0	%100
52	M28	Z	4.56	4.56	0	%100
53	M29	X	4.116	4.116	0	%100
54	M29	Z	2.376	2.376	0	%100
55	M30	X	7.966	7.966	0	%100
56	M30	Z	4.599	4.599	0	%100
57	M31	X	7.898	7.898	0	%100
58	M31	Z	4.56	4.56	0	%100
59	M32	X	7.898	7.898	0	%100
60	M32	Z	4.56	4.56	0	%100
61	M33	X	4.203	4.203	0	%100
62	M33	Z	2.427	2.427	0	%100
63	M34	X	4.203	4.203	0	%100
64	M34	Z	2.427	2.427	0	%100
65	M35	X	6.344	6.344	0	%100
66	M35	Z	3.662	3.662	0	%100
67	M36	X	7.966	7.966	0	%100
68	M36	Z	4.599	4.599	0	%100
69	MP6A	X	7.986	7.986	0	%100



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

	Member Label	Direction	Start Magnitude(lb/ft....)	End Magnitude(lb/ft....)	Start Location(ft.%)	End Location(ft.%)
70	MP6A	Z	4.611	4.611	0	%100
71	MP5A	X	7.986	7.986	0	%100
72	MP5A	Z	4.611	4.611	0	%100
73	MP3A	X	9.667	9.667	0	%100
74	MP3A	Z	5.581	5.581	0	%100
75	MP1A	X	7.986	7.986	0	%100
76	MP1A	Z	4.611	4.611	0	%100
77	MP4A	X	7.986	7.986	0	%100
78	MP4A	Z	4.611	4.611	0	%100
79	MP2A	X	7.986	7.986	0	%100
80	MP2A	Z	4.611	4.611	0	%100
81	M55	X	4.502	4.502	0	%100
82	M55	Z	2.599	2.599	0	%100

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

	Member Label	Direction	Start Magnitude(lb/ft....)	End Magnitude(lb/ft....)	Start Location(ft.%)	End Location(ft.%)
1	M1	X	4.368	4.368	0	%100
2	M1	Z	7.566	7.566	0	%100
3	M3	X	4.368	4.368	0	%100
4	M3	Z	7.566	7.566	0	%100
5	M5	X	.676	.676	0	%100
6	M5	Z	1.17	1.17	0	%100
7	M6	X	.045	.045	0	%100
8	M6	Z	.079	.079	0	%100
9	M7	X	4.186	4.186	0	%100
10	M7	Z	7.25	7.25	0	%100
11	M8	X	.676	.676	0	%100
12	M8	Z	1.17	1.17	0	%100
13	M9	X	.045	.045	0	%100
14	M9	Z	.079	.079	0	%100
15	M10	X	4.186	4.186	0	%100
16	M10	Z	7.25	7.25	0	%100
17	OVP	X	4.28	4.28	0	%100
18	OVP	Z	7.412	7.412	0	%100
19	M12	X	.287	.287	0	%100
20	M12	Z	.498	.498	0	%100
21	M13	X	4.28	4.28	0	%100
22	M13	Z	7.412	7.412	0	%100
23	M14	X	.287	.287	0	%100
24	M14	Z	.498	.498	0	%100
25	M15	X	2.032	2.032	0	%100
26	M15	Z	3.52	3.52	0	%100
27	M16	X	1.668	1.668	0	%100
28	M16	Z	2.889	2.889	0	%100
29	M17	X	2.032	2.032	0	%100
30	M17	Z	3.52	3.52	0	%100
31	M18	X	1.668	1.668	0	%100
32	M18	Z	2.889	2.889	0	%100
33	M19	X	2.149	2.149	0	%100
34	M19	Z	3.722	3.722	0	%100
35	M20	X	2.032	2.032	0	%100
36	M20	Z	3.52	3.52	0	%100
37	M21	X	2.032	2.032	0	%100
38	M21	Z	3.52	3.52	0	%100
39	M22	X	2.427	2.427	0	%100
40	M22	Z	4.203	4.203	0	%100
41	M23	X	2.427	2.427	0	%100
42	M23	Z	4.203	4.203	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
43	M24	X	3.662	3.662	0	%100
44	M24	Z	6.344	6.344	0	%100
45	M25	X	2.149	2.149	0	%100
46	M25	Z	3.722	3.722	0	%100
47	M26	X	2.032	2.032	0	%100
48	M26	Z	3.52	3.52	0	%100
49	M27	X	2.369	2.369	0	%100
50	M27	Z	4.102	4.102	0	%100
51	M28	X	2.032	2.032	0	%100
52	M28	Z	3.52	3.52	0	%100
53	M29	X	2.369	2.369	0	%100
54	M29	Z	4.102	4.102	0	%100
55	M30	X	2.149	2.149	0	%100
56	M30	Z	3.722	3.722	0	%100
57	M31	X	2.032	2.032	0	%100
58	M31	Z	3.52	3.52	0	%100
59	M32	X	2.032	2.032	0	%100
60	M32	Z	3.52	3.52	0	%100
61	M33	X	2.427	2.427	0	%100
62	M33	Z	4.203	4.203	0	%100
63	M34	X	2.427	2.427	0	%100
64	M34	Z	4.203	4.203	0	%100
65	M35	X	3.662	3.662	0	%100
66	M35	Z	6.344	6.344	0	%100
67	M36	X	2.149	2.149	0	%100
68	M36	Z	3.722	3.722	0	%100
69	MP6A	X	4.611	4.611	0	%100
70	MP6A	Z	7.986	7.986	0	%100
71	MP5A	X	4.611	4.611	0	%100
72	MP5A	Z	7.986	7.986	0	%100
73	MP3A	X	5.581	5.581	0	%100
74	MP3A	Z	9.667	9.667	0	%100
75	MP1A	X	4.611	4.611	0	%100
76	MP1A	Z	7.986	7.986	0	%100
77	MP4A	X	4.611	4.611	0	%100
78	MP4A	Z	7.986	7.986	0	%100
79	MP2A	X	4.611	4.611	0	%100
80	MP2A	Z	7.986	7.986	0	%100
81	M55	X	.361	.361	0	%100
82	M55	Z	.626	.626	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	11.648	11.648	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	11.648	11.648	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	.714	.714	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	.714	.714	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	11.163	11.163	0	%100
11	M8	X	0	0	0	%100
12	M8	Z	.714	.714	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	.714	.714	0	%100
15	M10	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude(lb/ft....)	End Magnitude(lb/ft....)	Start Location(ft.%)	End Location(ft.%)
16	M10	Z	11.163	11.163	0	%100
17	OVP	X	0	0	0	%100
18	OVP	Z	4.523	4.523	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	4.523	4.523	0	%100
21	M13	X	0	0	0	%100
22	M13	Z	4.523	4.523	0	%100
23	M14	X	0	0	0	%100
24	M14	Z	4.523	4.523	0	%100
25	M15	X	0	0	0	%100
26	M15	Z	1.537	1.537	0	%100
27	M16	X	0	0	0	%100
28	M16	Z	4.029	4.029	0	%100
29	M17	X	0	0	0	%100
30	M17	Z	1.537	1.537	0	%100
31	M18	X	0	0	0	%100
32	M18	Z	4.029	4.029	0	%100
33	M19	X	0	0	0	%100
34	M19	Z	1.847	1.847	0	%100
35	M20	X	0	0	0	%100
36	M20	Z	1.537	1.537	0	%100
37	M21	X	0	0	0	%100
38	M21	Z	1.537	1.537	0	%100
39	M22	X	0	0	0	%100
40	M22	Z	4.853	4.853	0	%100
41	M23	X	0	0	0	%100
42	M23	Z	4.853	4.853	0	%100
43	M24	X	0	0	0	%100
44	M24	Z	7.325	7.325	0	%100
45	M25	X	0	0	0	%100
46	M25	Z	1.847	1.847	0	%100
47	M26	X	0	0	0	%100
48	M26	Z	1.537	1.537	0	%100
49	M27	X	0	0	0	%100
50	M27	Z	4.029	4.029	0	%100
51	M28	X	0	0	0	%100
52	M28	Z	1.537	1.537	0	%100
53	M29	X	0	0	0	%100
54	M29	Z	4.029	4.029	0	%100
55	M30	X	0	0	0	%100
56	M30	Z	1.847	1.847	0	%100
57	M31	X	0	0	0	%100
58	M31	Z	1.537	1.537	0	%100
59	M32	X	0	0	0	%100
60	M32	Z	1.537	1.537	0	%100
61	M33	X	0	0	0	%100
62	M33	Z	4.853	4.853	0	%100
63	M34	X	0	0	0	%100
64	M34	Z	4.853	4.853	0	%100
65	M35	X	0	0	0	%100
66	M35	Z	7.325	7.325	0	%100
67	M36	X	0	0	0	%100
68	M36	Z	1.847	1.847	0	%100
69	MP6A	X	0	0	0	%100
70	MP6A	Z	9.221	9.221	0	%100
71	MP5A	X	0	0	0	%100
72	MP5A	Z	9.221	9.221	0	%100
73	MP3A	X	0	0	0	%100
74	MP3A	Z	11.163	11.163	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
75	MP1A	X	0	0	0	%100
76	MP1A	Z	9.221	9.221	0	%100
77	MP4A	X	0	0	0	%100
78	MP4A	Z	9.221	9.221	0	%100
79	MP2A	X	0	0	0	%100
80	MP2A	Z	9.221	9.221	0	%100
81	M55	X	0	0	0	%100
82	M55	Z	2.592	2.592	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-4.368	-4.368	0	%100
2	M1	Z	7.566	7.566	0	%100
3	M3	X	-4.368	-4.368	0	%100
4	M3	Z	7.566	7.566	0	%100
5	M5	X	-.045	-.045	0	%100
6	M5	Z	.079	.079	0	%100
7	M6	X	-.676	-.676	0	%100
8	M6	Z	1.17	1.17	0	%100
9	M7	X	-4.186	-4.186	0	%100
10	M7	Z	7.25	7.25	0	%100
11	M8	X	-.045	-.045	0	%100
12	M8	Z	.079	.079	0	%100
13	M9	X	-.676	-.676	0	%100
14	M9	Z	1.17	1.17	0	%100
15	M10	X	-4.186	-4.186	0	%100
16	M10	Z	7.25	7.25	0	%100
17	OVP	X	-.287	-.287	0	%100
18	OVP	Z	.498	.498	0	%100
19	M12	X	-4.28	-4.28	0	%100
20	M12	Z	7.412	7.412	0	%100
21	M13	X	-.287	-.287	0	%100
22	M13	Z	.498	.498	0	%100
23	M14	X	-4.28	-4.28	0	%100
24	M14	Z	7.412	7.412	0	%100
25	M15	X	-2.032	-2.032	0	%100
26	M15	Z	3.52	3.52	0	%100
27	M16	X	-2.369	-2.369	0	%100
28	M16	Z	4.102	4.102	0	%100
29	M17	X	-2.032	-2.032	0	%100
30	M17	Z	3.52	3.52	0	%100
31	M18	X	-2.369	-2.369	0	%100
32	M18	Z	4.102	4.102	0	%100
33	M19	X	-2.149	-2.149	0	%100
34	M19	Z	3.722	3.722	0	%100
35	M20	X	-2.032	-2.032	0	%100
36	M20	Z	3.52	3.52	0	%100
37	M21	X	-2.032	-2.032	0	%100
38	M21	Z	3.52	3.52	0	%100
39	M22	X	-2.427	-2.427	0	%100
40	M22	Z	4.203	4.203	0	%100
41	M23	X	-2.427	-2.427	0	%100
42	M23	Z	4.203	4.203	0	%100
43	M24	X	-3.662	-3.662	0	%100
44	M24	Z	6.344	6.344	0	%100
45	M25	X	-2.149	-2.149	0	%100
46	M25	Z	3.722	3.722	0	%100
47	M26	X	-2.032	-2.032	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
48	M26	Z	3.52	3.52	0	%100
49	M27	X	-1.668	-1.668	0	%100
50	M27	Z	2.889	2.889	0	%100
51	M28	X	-2.032	-2.032	0	%100
52	M28	Z	3.52	3.52	0	%100
53	M29	X	-1.668	-1.668	0	%100
54	M29	Z	2.889	2.889	0	%100
55	M30	X	-2.149	-2.149	0	%100
56	M30	Z	3.722	3.722	0	%100
57	M31	X	-2.032	-2.032	0	%100
58	M31	Z	3.52	3.52	0	%100
59	M32	X	-2.032	-2.032	0	%100
60	M32	Z	3.52	3.52	0	%100
61	M33	X	-2.427	-2.427	0	%100
62	M33	Z	4.203	4.203	0	%100
63	M34	X	-2.427	-2.427	0	%100
64	M34	Z	4.203	4.203	0	%100
65	M35	X	-3.662	-3.662	0	%100
66	M35	Z	6.344	6.344	0	%100
67	M36	X	-2.149	-2.149	0	%100
68	M36	Z	3.722	3.722	0	%100
69	MP6A	X	-4.611	-4.611	0	%100
70	MP6A	Z	7.986	7.986	0	%100
71	MP5A	X	-4.611	-4.611	0	%100
72	MP5A	Z	7.986	7.986	0	%100
73	MP3A	X	-5.581	-5.581	0	%100
74	MP3A	Z	9.667	9.667	0	%100
75	MP1A	X	-4.611	-4.611	0	%100
76	MP1A	Z	7.986	7.986	0	%100
77	MP4A	X	-4.611	-4.611	0	%100
78	MP4A	Z	7.986	7.986	0	%100
79	MP2A	X	-4.611	-4.611	0	%100
80	MP2A	Z	7.986	7.986	0	%100
81	M55	X	-4.469	-4.469	0	%100
82	M55	Z	7.74	7.74	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-2.522	-2.522	0	%100
2	M1	Z	1.456	1.456	0	%100
3	M3	X	-2.522	-2.522	0	%100
4	M3	Z	1.456	1.456	0	%100
5	M5	X	-.091	-.091	0	%100
6	M5	Z	.052	.052	0	%100
7	M6	X	-1.182	-1.182	0	%100
8	M6	Z	.683	.683	0	%100
9	M7	X	-2.417	-2.417	0	%100
10	M7	Z	1.395	1.395	0	%100
11	M8	X	-.091	-.091	0	%100
12	M8	Z	.052	.052	0	%100
13	M9	X	-1.182	-1.182	0	%100
14	M9	Z	.683	.683	0	%100
15	M10	X	-2.417	-2.417	0	%100
16	M10	Z	1.395	1.395	0	%100
17	OVP	X	-.574	-.574	0	%100
18	OVP	Z	.331	.331	0	%100
19	M12	X	-7.488	-7.488	0	%100
20	M12	Z	4.323	4.323	0	%100





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

	Member Label	Direction	Start Magnitude(lb/ft....	End Magnitude(lb/ft....	Start Location(ft,%)	End Location(ft,%)
21	M13	X	-574	-574	0	%100
22	M13	Z	.331	.331	0	%100
23	M14	X	-7.488	-7.488	0	%100
24	M14	Z	4.323	4.323	0	%100
25	M15	X	-7.898	-7.898	0	%100
26	M15	Z	4.56	4.56	0	%100
27	M16	X	-4.116	-4.116	0	%100
28	M16	Z	2.376	2.376	0	%100
29	M17	X	-7.898	-7.898	0	%100
30	M17	Z	4.56	4.56	0	%100
31	M18	X	-4.116	-4.116	0	%100
32	M18	Z	2.376	2.376	0	%100
33	M19	X	-7.966	-7.966	0	%100
34	M19	Z	4.599	4.599	0	%100
35	M20	X	-7.898	-7.898	0	%100
36	M20	Z	4.56	4.56	0	%100
37	M21	X	-7.898	-7.898	0	%100
38	M21	Z	4.56	4.56	0	%100
39	M22	X	-4.203	-4.203	0	%100
40	M22	Z	2.427	2.427	0	%100
41	M23	X	-4.203	-4.203	0	%100
42	M23	Z	2.427	2.427	0	%100
43	M24	X	-6.344	-6.344	0	%100
44	M24	Z	3.662	3.662	0	%100
45	M25	X	-7.966	-7.966	0	%100
46	M25	Z	4.599	4.599	0	%100
47	M26	X	-7.898	-7.898	0	%100
48	M26	Z	4.56	4.56	0	%100
49	M27	X	-2.902	-2.902	0	%100
50	M27	Z	1.676	1.676	0	%100
51	M28	X	-7.898	-7.898	0	%100
52	M28	Z	4.56	4.56	0	%100
53	M29	X	-2.902	-2.902	0	%100
54	M29	Z	1.676	1.676	0	%100
55	M30	X	-7.966	-7.966	0	%100
56	M30	Z	4.599	4.599	0	%100
57	M31	X	-7.898	-7.898	0	%100
58	M31	Z	4.56	4.56	0	%100
59	M32	X	-7.898	-7.898	0	%100
60	M32	Z	4.56	4.56	0	%100
61	M33	X	-4.203	-4.203	0	%100
62	M33	Z	2.427	2.427	0	%100
63	M34	X	-4.203	-4.203	0	%100
64	M34	Z	2.427	2.427	0	%100
65	M35	X	-6.344	-6.344	0	%100
66	M35	Z	3.662	3.662	0	%100
67	M36	X	-7.966	-7.966	0	%100
68	M36	Z	4.599	4.599	0	%100
69	MP6A	X	-7.986	-7.986	0	%100
70	MP6A	Z	4.611	4.611	0	%100
71	MP5A	X	-7.986	-7.986	0	%100
72	MP5A	Z	4.611	4.611	0	%100
73	MP3A	X	-9.667	-9.667	0	%100
74	MP3A	Z	5.581	5.581	0	%100
75	MP1A	X	-7.986	-7.986	0	%100
76	MP1A	Z	4.611	4.611	0	%100
77	MP4A	X	-7.986	-7.986	0	%100
78	MP4A	Z	4.611	4.611	0	%100
79	MP2A	X	-7.986	-7.986	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
80	MP2A	Z	4.611	4.611	0	%100
81	M55	X	-11.616	-11.616	0	%100
82	M55	Z	6.707	6.707	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	0	0	0	%100
5	M5	X	-.742	-.742	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	-.742	-.742	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M8	X	-.742	-.742	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	-.742	-.742	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	0	0	0	%100
17	OVP	X	-4.699	-4.699	0	%100
18	OVP	Z	0	0	0	%100
19	M12	X	-4.699	-4.699	0	%100
20	M12	Z	0	0	0	%100
21	M13	X	-4.699	-4.699	0	%100
22	M13	Z	0	0	0	%100
23	M14	X	-4.699	-4.699	0	%100
24	M14	Z	0	0	0	%100
25	M15	X	-11.648	-11.648	0	%100
26	M15	Z	0	0	0	%100
27	M16	X	-4.06	-4.06	0	%100
28	M16	Z	0	0	0	%100
29	M17	X	-11.648	-11.648	0	%100
30	M17	Z	0	0	0	%100
31	M18	X	-4.06	-4.06	0	%100
32	M18	Z	0	0	0	%100
33	M19	X	-11.648	-11.648	0	%100
34	M19	Z	0	0	0	%100
35	M20	X	-11.648	-11.648	0	%100
36	M20	Z	0	0	0	%100
37	M21	X	-11.648	-11.648	0	%100
38	M21	Z	0	0	0	%100
39	M22	X	-4.853	-4.853	0	%100
40	M22	Z	0	0	0	%100
41	M23	X	-4.853	-4.853	0	%100
42	M23	Z	0	0	0	%100
43	M24	X	-7.325	-7.325	0	%100
44	M24	Z	0	0	0	%100
45	M25	X	-11.648	-11.648	0	%100
46	M25	Z	0	0	0	%100
47	M26	X	-11.648	-11.648	0	%100
48	M26	Z	0	0	0	%100
49	M27	X	-4.06	-4.06	0	%100
50	M27	Z	0	0	0	%100
51	M28	X	-11.648	-11.648	0	%100
52	M28	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
53	M29	X	-4.06	-4.06	0	%100
54	M29	Z	0	0	0	%100
55	M30	X	-11.648	-11.648	0	%100
56	M30	Z	0	0	0	%100
57	M31	X	-11.648	-11.648	0	%100
58	M31	Z	0	0	0	%100
59	M32	X	-11.648	-11.648	0	%100
60	M32	Z	0	0	0	%100
61	M33	X	-4.853	-4.853	0	%100
62	M33	Z	0	0	0	%100
63	M34	X	-4.853	-4.853	0	%100
64	M34	Z	0	0	0	%100
65	M35	X	-7.325	-7.325	0	%100
66	M35	Z	0	0	0	%100
67	M36	X	-11.648	-11.648	0	%100
68	M36	Z	0	0	0	%100
69	MP6A	X	-9.221	-9.221	0	%100
70	MP6A	Z	0	0	0	%100
71	MP5A	X	-9.221	-9.221	0	%100
72	MP5A	Z	0	0	0	%100
73	MP3A	X	-11.163	-11.163	0	%100
74	MP3A	Z	0	0	0	%100
75	MP1A	X	-9.221	-9.221	0	%100
76	MP1A	Z	0	0	0	%100
77	MP4A	X	-9.221	-9.221	0	%100
78	MP4A	Z	0	0	0	%100
79	MP2A	X	-9.221	-9.221	0	%100
80	MP2A	Z	0	0	0	%100
81	M55	X	-11.544	-11.544	0	%100
82	M55	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-2.522	-2.522	0	%100
2	M1	Z	-1.456	-1.456	0	%100
3	M3	X	-2.522	-2.522	0	%100
4	M3	Z	-1.456	-1.456	0	%100
5	M5	X	-1.182	-1.182	0	%100
6	M5	Z	-0.683	-0.683	0	%100
7	M6	X	-0.091	-0.091	0	%100
8	M6	Z	-0.052	-0.052	0	%100
9	M7	X	-2.417	-2.417	0	%100
10	M7	Z	-1.395	-1.395	0	%100
11	M8	X	-1.182	-1.182	0	%100
12	M8	Z	-0.683	-0.683	0	%100
13	M9	X	-0.091	-0.091	0	%100
14	M9	Z	-0.052	-0.052	0	%100
15	M10	X	-2.417	-2.417	0	%100
16	M10	Z	-1.395	-1.395	0	%100
17	OVP	X	-7.488	-7.488	0	%100
18	OVP	Z	-4.323	-4.323	0	%100
19	M12	X	-0.574	-0.574	0	%100
20	M12	Z	-0.331	-0.331	0	%100
21	M13	X	-7.488	-7.488	0	%100
22	M13	Z	-4.323	-4.323	0	%100
23	M14	X	-0.574	-0.574	0	%100
24	M14	Z	-0.331	-0.331	0	%100
25	M15	X	-7.898	-7.898	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
26	M15	Z	-4.56	-4.56	0	%100
27	M16	X	-2.902	-2.902	0	%100
28	M16	Z	-1.676	-1.676	0	%100
29	M17	X	-7.898	-7.898	0	%100
30	M17	Z	-4.56	-4.56	0	%100
31	M18	X	-2.902	-2.902	0	%100
32	M18	Z	-1.676	-1.676	0	%100
33	M19	X	-7.966	-7.966	0	%100
34	M19	Z	-4.599	-4.599	0	%100
35	M20	X	-7.898	-7.898	0	%100
36	M20	Z	-4.56	-4.56	0	%100
37	M21	X	-7.898	-7.898	0	%100
38	M21	Z	-4.56	-4.56	0	%100
39	M22	X	-4.203	-4.203	0	%100
40	M22	Z	-2.427	-2.427	0	%100
41	M23	X	-4.203	-4.203	0	%100
42	M23	Z	-2.427	-2.427	0	%100
43	M24	X	-6.344	-6.344	0	%100
44	M24	Z	-3.662	-3.662	0	%100
45	M25	X	-7.966	-7.966	0	%100
46	M25	Z	-4.599	-4.599	0	%100
47	M26	X	-7.898	-7.898	0	%100
48	M26	Z	-4.56	-4.56	0	%100
49	M27	X	-4.116	-4.116	0	%100
50	M27	Z	-2.376	-2.376	0	%100
51	M28	X	-7.898	-7.898	0	%100
52	M28	Z	-4.56	-4.56	0	%100
53	M29	X	-4.116	-4.116	0	%100
54	M29	Z	-2.376	-2.376	0	%100
55	M30	X	-7.966	-7.966	0	%100
56	M30	Z	-4.599	-4.599	0	%100
57	M31	X	-7.898	-7.898	0	%100
58	M31	Z	-4.56	-4.56	0	%100
59	M32	X	-7.898	-7.898	0	%100
60	M32	Z	-4.56	-4.56	0	%100
61	M33	X	-4.203	-4.203	0	%100
62	M33	Z	-2.427	-2.427	0	%100
63	M34	X	-4.203	-4.203	0	%100
64	M34	Z	-2.427	-2.427	0	%100
65	M35	X	-6.344	-6.344	0	%100
66	M35	Z	-3.662	-3.662	0	%100
67	M36	X	-7.966	-7.966	0	%100
68	M36	Z	-4.599	-4.599	0	%100
69	MP6A	X	-7.986	-7.986	0	%100
70	MP6A	Z	-4.611	-4.611	0	%100
71	MP5A	X	-7.986	-7.986	0	%100
72	MP5A	Z	-4.611	-4.611	0	%100
73	MP3A	X	-9.667	-9.667	0	%100
74	MP3A	Z	-5.581	-5.581	0	%100
75	MP1A	X	-7.986	-7.986	0	%100
76	MP1A	Z	-4.611	-4.611	0	%100
77	MP4A	X	-7.986	-7.986	0	%100
78	MP4A	Z	-4.611	-4.611	0	%100
79	MP2A	X	-7.986	-7.986	0	%100
80	MP2A	Z	-4.611	-4.611	0	%100
81	M55	X	-4.502	-4.502	0	%100
82	M55	Z	-2.599	-2.599	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-4.368	-4.368	0	%100
2	M1	Z	-7.566	-7.566	0	%100
3	M3	X	-4.368	-4.368	0	%100
4	M3	Z	-7.566	-7.566	0	%100
5	M5	X	-.676	-.676	0	%100
6	M5	Z	-1.17	-1.17	0	%100
7	M6	X	-.045	-.045	0	%100
8	M6	Z	-.079	-.079	0	%100
9	M7	X	-4.186	-4.186	0	%100
10	M7	Z	-7.25	-7.25	0	%100
11	M8	X	-.676	-.676	0	%100
12	M8	Z	-1.17	-1.17	0	%100
13	M9	X	-.045	-.045	0	%100
14	M9	Z	-.079	-.079	0	%100
15	M10	X	-4.186	-4.186	0	%100
16	M10	Z	-7.25	-7.25	0	%100
17	OVP	X	-4.28	-4.28	0	%100
18	OVP	Z	-7.412	-7.412	0	%100
19	M12	X	-.287	-.287	0	%100
20	M12	Z	-.498	-.498	0	%100
21	M13	X	-4.28	-4.28	0	%100
22	M13	Z	-7.412	-7.412	0	%100
23	M14	X	-.287	-.287	0	%100
24	M14	Z	-.498	-.498	0	%100
25	M15	X	-2.032	-2.032	0	%100
26	M15	Z	-3.52	-3.52	0	%100
27	M16	X	-1.668	-1.668	0	%100
28	M16	Z	-2.889	-2.889	0	%100
29	M17	X	-2.032	-2.032	0	%100
30	M17	Z	-3.52	-3.52	0	%100
31	M18	X	-1.668	-1.668	0	%100
32	M18	Z	-2.889	-2.889	0	%100
33	M19	X	-2.149	-2.149	0	%100
34	M19	Z	-3.722	-3.722	0	%100
35	M20	X	-2.032	-2.032	0	%100
36	M20	Z	-3.52	-3.52	0	%100
37	M21	X	-2.032	-2.032	0	%100
38	M21	Z	-3.52	-3.52	0	%100
39	M22	X	-2.427	-2.427	0	%100
40	M22	Z	-4.203	-4.203	0	%100
41	M23	X	-2.427	-2.427	0	%100
42	M23	Z	-4.203	-4.203	0	%100
43	M24	X	-3.662	-3.662	0	%100
44	M24	Z	-6.344	-6.344	0	%100
45	M25	X	-2.149	-2.149	0	%100
46	M25	Z	-3.722	-3.722	0	%100
47	M26	X	-2.032	-2.032	0	%100
48	M26	Z	-3.52	-3.52	0	%100
49	M27	X	-2.369	-2.369	0	%100
50	M27	Z	-4.102	-4.102	0	%100
51	M28	X	-2.032	-2.032	0	%100
52	M28	Z	-3.52	-3.52	0	%100
53	M29	X	-2.369	-2.369	0	%100
54	M29	Z	-4.102	-4.102	0	%100
55	M30	X	-2.149	-2.149	0	%100
56	M30	Z	-3.722	-3.722	0	%100
57	M31	X	-2.032	-2.032	0	%100
58	M31	Z	-3.52	-3.52	0	%100
59	M32	X	-2.032	-2.032	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
60	M32	Z	-3.52	-3.52	0	%100
61	M33	X	-2.427	-2.427	0	%100
62	M33	Z	-4.203	-4.203	0	%100
63	M34	X	-2.427	-2.427	0	%100
64	M34	Z	-4.203	-4.203	0	%100
65	M35	X	-3.662	-3.662	0	%100
66	M35	Z	-6.344	-6.344	0	%100
67	M36	X	-2.149	-2.149	0	%100
68	M36	Z	-3.722	-3.722	0	%100
69	MP6A	X	-4.611	-4.611	0	%100
70	MP6A	Z	-7.986	-7.986	0	%100
71	MP5A	X	-4.611	-4.611	0	%100
72	MP5A	Z	-7.986	-7.986	0	%100
73	MP3A	X	-5.581	-5.581	0	%100
74	MP3A	Z	-9.667	-9.667	0	%100
75	MP1A	X	-4.611	-4.611	0	%100
76	MP1A	Z	-7.986	-7.986	0	%100
77	MP4A	X	-4.611	-4.611	0	%100
78	MP4A	Z	-7.986	-7.986	0	%100
79	MP2A	X	-4.611	-4.611	0	%100
80	MP2A	Z	-7.986	-7.986	0	%100
81	M55	X	-361	-361	0	%100
82	M55	Z	-626	-626	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	-2.727	-2.727	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	-2.727	-2.727	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	-533	-533	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	-533	-533	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	-3.249	-3.249	0	%100
11	M8	X	0	0	0	%100
12	M8	Z	-533	-533	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	-533	-533	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	-3.249	-3.249	0	%100
17	OVP	X	0	0	0	%100
18	OVP	Z	-1.441	-1.441	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	-1.441	-1.441	0	%100
21	M13	X	0	0	0	%100
22	M13	Z	-1.441	-1.441	0	%100
23	M14	X	0	0	0	%100
24	M14	Z	-1.441	-1.441	0	%100
25	M15	X	0	0	0	%100
26	M15	Z	-1.099	-1.099	0	%100
27	M16	X	0	0	0	%100
28	M16	Z	-1.776	-1.776	0	%100
29	M17	X	0	0	0	%100
30	M17	Z	-1.099	-1.099	0	%100
31	M18	X	0	0	0	%100
32	M18	Z	-1.776	-1.776	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
33	M19	X	0	0	0	%100
34	M19	Z	-1.149	-1.149	0	%100
35	M20	X	0	0	0	%100
36	M20	Z	-1.099	-1.099	0	%100
37	M21	X	0	0	0	%100
38	M21	Z	-1.099	-1.099	0	%100
39	M22	X	0	0	0	%100
40	M22	Z	-1.999	-1.999	0	%100
41	M23	X	0	0	0	%100
42	M23	Z	-1.999	-1.999	0	%100
43	M24	X	0	0	0	%100
44	M24	Z	-2.337	-2.337	0	%100
45	M25	X	0	0	0	%100
46	M25	Z	-1.149	-1.149	0	%100
47	M26	X	0	0	0	%100
48	M26	Z	-1.099	-1.099	0	%100
49	M27	X	0	0	0	%100
50	M27	Z	-1.776	-1.776	0	%100
51	M28	X	0	0	0	%100
52	M28	Z	-1.099	-1.099	0	%100
53	M29	X	0	0	0	%100
54	M29	Z	-1.776	-1.776	0	%100
55	M30	X	0	0	0	%100
56	M30	Z	-1.149	-1.149	0	%100
57	M31	X	0	0	0	%100
58	M31	Z	-1.099	-1.099	0	%100
59	M32	X	0	0	0	%100
60	M32	Z	-1.099	-1.099	0	%100
61	M33	X	0	0	0	%100
62	M33	Z	-1.999	-1.999	0	%100
63	M34	X	0	0	0	%100
64	M34	Z	-1.999	-1.999	0	%100
65	M35	X	0	0	0	%100
66	M35	Z	-2.337	-2.337	0	%100
67	M36	X	0	0	0	%100
68	M36	Z	-1.149	-1.149	0	%100
69	MP6A	X	0	0	0	%100
70	MP6A	Z	-2.938	-2.938	0	%100
71	MP5A	X	0	0	0	%100
72	MP5A	Z	-2.938	-2.938	0	%100
73	MP3A	X	0	0	0	%100
74	MP3A	Z	-3.249	-3.249	0	%100
75	MP1A	X	0	0	0	%100
76	MP1A	Z	-2.938	-2.938	0	%100
77	MP4A	X	0	0	0	%100
78	MP4A	Z	-2.938	-2.938	0	%100
79	MP2A	X	0	0	0	%100
80	MP2A	Z	-2.938	-2.938	0	%100
81	M55	X	0	0	0	%100
82	M55	Z	-0.694	-0.694	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	1.023	1.023	0	%100
2	M1	Z	-1.771	-1.771	0	%100
3	M3	X	1.023	1.023	0	%100
4	M3	Z	-1.771	-1.771	0	%100
5	M5	X	.034	.034	0	%100



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

	Member Label	Direction	Start Magnitude(lb/ft....)	End Magnitude(lb/ft....)	Start Location(ft.%)	End Location(ft.%)
6	M5	Z	-.059	-.059	0	%100
7	M6	X	.504	.504	0	%100
8	M6	Z	-.873	-.873	0	%100
9	M7	X	1.218	1.218	0	%100
10	M7	Z	-2.11	-2.11	0	%100
11	M8	X	.034	.034	0	%100
12	M8	Z	-.059	-.059	0	%100
13	M9	X	.504	.504	0	%100
14	M9	Z	-.873	-.873	0	%100
15	M10	X	1.218	1.218	0	%100
16	M10	Z	-2.11	-2.11	0	%100
17	OVP	X	.092	.092	0	%100
18	OVP	Z	-.159	-.159	0	%100
19	M12	X	1.364	1.364	0	%100
20	M12	Z	-2.362	-2.362	0	%100
21	M13	X	.092	.092	0	%100
22	M13	Z	-.159	-.159	0	%100
23	M14	X	1.364	1.364	0	%100
24	M14	Z	-2.362	-2.362	0	%100
25	M15	X	.752	.752	0	%100
26	M15	Z	-1.302	-1.302	0	%100
27	M16	X	1.044	1.044	0	%100
28	M16	Z	-1.809	-1.809	0	%100
29	M17	X	.752	.752	0	%100
30	M17	Z	-1.302	-1.302	0	%100
31	M18	X	1.044	1.044	0	%100
32	M18	Z	-1.809	-1.809	0	%100
33	M19	X	.77	.77	0	%100
34	M19	Z	-1.334	-1.334	0	%100
35	M20	X	.752	.752	0	%100
36	M20	Z	-1.302	-1.302	0	%100
37	M21	X	.752	.752	0	%100
38	M21	Z	-1.302	-1.302	0	%100
39	M22	X	1	1	0	%100
40	M22	Z	-1.731	-1.731	0	%100
41	M23	X	1	1	0	%100
42	M23	Z	-1.731	-1.731	0	%100
43	M24	X	1.169	1.169	0	%100
44	M24	Z	-2.024	-2.024	0	%100
45	M25	X	.77	.77	0	%100
46	M25	Z	-1.334	-1.334	0	%100
47	M26	X	.752	.752	0	%100
48	M26	Z	-1.302	-1.302	0	%100
49	M27	X	.735	.735	0	%100
50	M27	Z	-1.274	-1.274	0	%100
51	M28	X	.752	.752	0	%100
52	M28	Z	-1.302	-1.302	0	%100
53	M29	X	.735	.735	0	%100
54	M29	Z	-1.274	-1.274	0	%100
55	M30	X	.77	.77	0	%100
56	M30	Z	-1.334	-1.334	0	%100
57	M31	X	.752	.752	0	%100
58	M31	Z	-1.302	-1.302	0	%100
59	M32	X	.752	.752	0	%100
60	M32	Z	-1.302	-1.302	0	%100
61	M33	X	1	1	0	%100
62	M33	Z	-1.731	-1.731	0	%100
63	M34	X	1	1	0	%100
64	M34	Z	-1.731	-1.731	0	%100





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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
65	M35	X	1.169	1.169	0	%100
66	M35	Z	-2.024	-2.024	0	%100
67	M36	X	.77	.77	0	%100
68	M36	Z	-1.334	-1.334	0	%100
69	MP6A	X	1.469	1.469	0	%100
70	MP6A	Z	-2.544	-2.544	0	%100
71	MP5A	X	1.469	1.469	0	%100
72	MP5A	Z	-2.544	-2.544	0	%100
73	MP3A	X	1.624	1.624	0	%100
74	MP3A	Z	-2.813	-2.813	0	%100
75	MP1A	X	1.469	1.469	0	%100
76	MP1A	Z	-2.544	-2.544	0	%100
77	MP4A	X	1.469	1.469	0	%100
78	MP4A	Z	-2.544	-2.544	0	%100
79	MP2A	X	1.469	1.469	0	%100
80	MP2A	Z	-2.544	-2.544	0	%100
81	M55	X	1.196	1.196	0	%100
82	M55	Z	-2.072	-2.072	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.59	.59	0	%100
2	M1	Z	-.341	-.341	0	%100
3	M3	X	.59	.59	0	%100
4	M3	Z	-.341	-.341	0	%100
5	M5	X	.068	.068	0	%100
6	M5	Z	-.039	-.039	0	%100
7	M6	X	.882	.882	0	%100
8	M6	Z	-.509	-.509	0	%100
9	M7	X	.703	.703	0	%100
10	M7	Z	-.406	-.406	0	%100
11	M8	X	.068	.068	0	%100
12	M8	Z	-.039	-.039	0	%100
13	M9	X	.882	.882	0	%100
14	M9	Z	-.509	-.509	0	%100
15	M10	X	.703	.703	0	%100
16	M10	Z	-.406	-.406	0	%100
17	OVP	X	.183	.183	0	%100
18	OVP	Z	-.106	-.106	0	%100
19	M12	X	2.386	2.386	0	%100
20	M12	Z	-1.378	-1.378	0	%100
21	M13	X	.183	.183	0	%100
22	M13	Z	-.106	-.106	0	%100
23	M14	X	2.386	2.386	0	%100
24	M14	Z	-1.378	-1.378	0	%100
25	M15	X	2.003	2.003	0	%100
26	M15	Z	-1.156	-1.156	0	%100
27	M16	X	1.815	1.815	0	%100
28	M16	Z	-1.048	-1.048	0	%100
29	M17	X	2.003	2.003	0	%100
30	M17	Z	-1.156	-1.156	0	%100
31	M18	X	1.815	1.815	0	%100
32	M18	Z	-1.048	-1.048	0	%100
33	M19	X	2.013	2.013	0	%100
34	M19	Z	-1.162	-1.162	0	%100
35	M20	X	2.003	2.003	0	%100
36	M20	Z	-1.156	-1.156	0	%100
37	M21	X	2.003	2.003	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft,%]	End Location[ft,%]
38	M21	Z	-1.156	-1.156	0	%100
39	M22	X	1.731	1.731	0	%100
40	M22	Z	-1	-1	0	%100
41	M23	X	1.731	1.731	0	%100
42	M23	Z	-1	-1	0	%100
43	M24	X	2.024	2.024	0	%100
44	M24	Z	-1.169	-1.169	0	%100
45	M25	X	2.013	2.013	0	%100
46	M25	Z	-1.162	-1.162	0	%100
47	M26	X	2.003	2.003	0	%100
48	M26	Z	-1.156	-1.156	0	%100
49	M27	X	1.28	1.28	0	%100
50	M27	Z	-0.739	-0.739	0	%100
51	M28	X	2.003	2.003	0	%100
52	M28	Z	-1.156	-1.156	0	%100
53	M29	X	1.28	1.28	0	%100
54	M29	Z	-0.739	-0.739	0	%100
55	M30	X	2.013	2.013	0	%100
56	M30	Z	-1.162	-1.162	0	%100
57	M31	X	2.003	2.003	0	%100
58	M31	Z	-1.156	-1.156	0	%100
59	M32	X	2.003	2.003	0	%100
60	M32	Z	-1.156	-1.156	0	%100
61	M33	X	1.731	1.731	0	%100
62	M33	Z	-1	-1	0	%100
63	M34	X	1.731	1.731	0	%100
64	M34	Z	-1	-1	0	%100
65	M35	X	2.024	2.024	0	%100
66	M35	Z	-1.169	-1.169	0	%100
67	M36	X	2.013	2.013	0	%100
68	M36	Z	-1.162	-1.162	0	%100
69	MP6A	X	2.544	2.544	0	%100
70	MP6A	Z	-1.469	-1.469	0	%100
71	MP5A	X	2.544	2.544	0	%100
72	MP5A	Z	-1.469	-1.469	0	%100
73	MP3A	X	2.813	2.813	0	%100
74	MP3A	Z	-1.624	-1.624	0	%100
75	MP1A	X	2.544	2.544	0	%100
76	MP1A	Z	-1.469	-1.469	0	%100
77	MP4A	X	2.544	2.544	0	%100
78	MP4A	Z	-1.469	-1.469	0	%100
79	MP2A	X	2.544	2.544	0	%100
80	MP2A	Z	-1.469	-1.469	0	%100
81	M55	X	3.109	3.109	0	%100
82	M55	Z	-1.795	-1.795	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	0	0	0	%100
5	M5	X	.553	.553	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	.553	.553	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft. %]	End Location[ft. %]
11	M8	X	.553	.553	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	.553	.553	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	0	0	0	%100
17	OVP	X	1.497	1.497	0	%100
18	OVP	Z	0	0	0	%100
19	M12	X	1.497	1.497	0	%100
20	M12	Z	0	0	0	%100
21	M13	X	1.497	1.497	0	%100
22	M13	Z	0	0	0	%100
23	M14	X	1.497	1.497	0	%100
24	M14	Z	0	0	0	%100
25	M15	X	2.717	2.717	0	%100
26	M15	Z	0	0	0	%100
27	M16	X	1.79	1.79	0	%100
28	M16	Z	0	0	0	%100
29	M17	X	2.717	2.717	0	%100
30	M17	Z	0	0	0	%100
31	M18	X	1.79	1.79	0	%100
32	M18	Z	0	0	0	%100
33	M19	X	2.717	2.717	0	%100
34	M19	Z	0	0	0	%100
35	M20	X	2.717	2.717	0	%100
36	M20	Z	0	0	0	%100
37	M21	X	2.717	2.717	0	%100
38	M21	Z	0	0	0	%100
39	M22	X	1.999	1.999	0	%100
40	M22	Z	0	0	0	%100
41	M23	X	1.999	1.999	0	%100
42	M23	Z	0	0	0	%100
43	M24	X	2.337	2.337	0	%100
44	M24	Z	0	0	0	%100
45	M25	X	2.717	2.717	0	%100
46	M25	Z	0	0	0	%100
47	M26	X	2.717	2.717	0	%100
48	M26	Z	0	0	0	%100
49	M27	X	1.79	1.79	0	%100
50	M27	Z	0	0	0	%100
51	M28	X	2.717	2.717	0	%100
52	M28	Z	0	0	0	%100
53	M29	X	1.79	1.79	0	%100
54	M29	Z	0	0	0	%100
55	M30	X	2.717	2.717	0	%100
56	M30	Z	0	0	0	%100
57	M31	X	2.717	2.717	0	%100
58	M31	Z	0	0	0	%100
59	M32	X	2.717	2.717	0	%100
60	M32	Z	0	0	0	%100
61	M33	X	1.999	1.999	0	%100
62	M33	Z	0	0	0	%100
63	M34	X	1.999	1.999	0	%100
64	M34	Z	0	0	0	%100
65	M35	X	2.337	2.337	0	%100
66	M35	Z	0	0	0	%100
67	M36	X	2.717	2.717	0	%100
68	M36	Z	0	0	0	%100
69	MP6A	X	2.938	2.938	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
70	MP6A	Z	0	0	0	%100
71	MP5A	X	2.938	2.938	0	%100
72	MP5A	Z	0	0	0	%100
73	MP3A	X	3.249	3.249	0	%100
74	MP3A	Z	0	0	0	%100
75	MP1A	X	2.938	2.938	0	%100
76	MP1A	Z	0	0	0	%100
77	MP4A	X	2.938	2.938	0	%100
78	MP4A	Z	0	0	0	%100
79	MP2A	X	2.938	2.938	0	%100
80	MP2A	Z	0	0	0	%100
81	M55	X	3.09	3.09	0	%100
82	M55	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.59	.59	0	%100
2	M1	Z	.341	.341	0	%100
3	M3	X	.59	.59	0	%100
4	M3	Z	.341	.341	0	%100
5	M5	X	.882	.882	0	%100
6	M5	Z	.509	.509	0	%100
7	M6	X	.068	.068	0	%100
8	M6	Z	.039	.039	0	%100
9	M7	X	.703	.703	0	%100
10	M7	Z	.406	.406	0	%100
11	M8	X	.882	.882	0	%100
12	M8	Z	.509	.509	0	%100
13	M9	X	.068	.068	0	%100
14	M9	Z	.039	.039	0	%100
15	M10	X	.703	.703	0	%100
16	M10	Z	.406	.406	0	%100
17	OVP	X	2.386	2.386	0	%100
18	OVP	Z	1.378	1.378	0	%100
19	M12	X	.183	.183	0	%100
20	M12	Z	.106	.106	0	%100
21	M13	X	2.386	2.386	0	%100
22	M13	Z	1.378	1.378	0	%100
23	M14	X	.183	.183	0	%100
24	M14	Z	.106	.106	0	%100
25	M15	X	2.003	2.003	0	%100
26	M15	Z	1.156	1.156	0	%100
27	M16	X	1.28	1.28	0	%100
28	M16	Z	.739	.739	0	%100
29	M17	X	2.003	2.003	0	%100
30	M17	Z	1.156	1.156	0	%100
31	M18	X	1.28	1.28	0	%100
32	M18	Z	.739	.739	0	%100
33	M19	X	2.013	2.013	0	%100
34	M19	Z	1.162	1.162	0	%100
35	M20	X	2.003	2.003	0	%100
36	M20	Z	1.156	1.156	0	%100
37	M21	X	2.003	2.003	0	%100
38	M21	Z	1.156	1.156	0	%100
39	M22	X	1.731	1.731	0	%100
40	M22	Z	1	1	0	%100
41	M23	X	1.731	1.731	0	%100
42	M23	Z	1	1	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
43	M24	X	2.024	2.024	0	%100
44	M24	Z	1.169	1.169	0	%100
45	M25	X	2.013	2.013	0	%100
46	M25	Z	1.162	1.162	0	%100
47	M26	X	2.003	2.003	0	%100
48	M26	Z	1.156	1.156	0	%100
49	M27	X	1.815	1.815	0	%100
50	M27	Z	1.048	1.048	0	%100
51	M28	X	2.003	2.003	0	%100
52	M28	Z	1.156	1.156	0	%100
53	M29	X	1.815	1.815	0	%100
54	M29	Z	1.048	1.048	0	%100
55	M30	X	2.013	2.013	0	%100
56	M30	Z	1.162	1.162	0	%100
57	M31	X	2.003	2.003	0	%100
58	M31	Z	1.156	1.156	0	%100
59	M32	X	2.003	2.003	0	%100
60	M32	Z	1.156	1.156	0	%100
61	M33	X	1.731	1.731	0	%100
62	M33	Z	1	1	0	%100
63	M34	X	1.731	1.731	0	%100
64	M34	Z	1	1	0	%100
65	M35	X	2.024	2.024	0	%100
66	M35	Z	1.169	1.169	0	%100
67	M36	X	2.013	2.013	0	%100
68	M36	Z	1.162	1.162	0	%100
69	MP6A	X	2.544	2.544	0	%100
70	MP6A	Z	1.469	1.469	0	%100
71	MP5A	X	2.544	2.544	0	%100
72	MP5A	Z	1.469	1.469	0	%100
73	MP3A	X	2.813	2.813	0	%100
74	MP3A	Z	1.624	1.624	0	%100
75	MP1A	X	2.544	2.544	0	%100
76	MP1A	Z	1.469	1.469	0	%100
77	MP4A	X	2.544	2.544	0	%100
78	MP4A	Z	1.469	1.469	0	%100
79	MP2A	X	2.544	2.544	0	%100
80	MP2A	Z	1.469	1.469	0	%100
81	M55	X	1.205	1.205	0	%100
82	M55	Z	.696	.696	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	1.023	1.023	0	%100
2	M1	Z	1.771	1.771	0	%100
3	M3	X	1.023	1.023	0	%100
4	M3	Z	1.771	1.771	0	%100
5	M5	X	.504	.504	0	%100
6	M5	Z	.873	.873	0	%100
7	M6	X	.034	.034	0	%100
8	M6	Z	.059	.059	0	%100
9	M7	X	1.218	1.218	0	%100
10	M7	Z	2.11	2.11	0	%100
11	M8	X	.504	.504	0	%100
12	M8	Z	.873	.873	0	%100
13	M9	X	.034	.034	0	%100
14	M9	Z	.059	.059	0	%100
15	M10	X	1.218	1.218	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
16	M10	Z	2.11	2.11	0	%100
17	OVP	X	1.364	1.364	0	%100
18	OVP	Z	2.362	2.362	0	%100
19	M12	X	.092	.092	0	%100
20	M12	Z	.159	.159	0	%100
21	M13	X	1.364	1.364	0	%100
22	M13	Z	2.362	2.362	0	%100
23	M14	X	.092	.092	0	%100
24	M14	Z	.159	.159	0	%100
25	M15	X	.752	.752	0	%100
26	M15	Z	1.302	1.302	0	%100
27	M16	X	.735	.735	0	%100
28	M16	Z	1.274	1.274	0	%100
29	M17	X	.752	.752	0	%100
30	M17	Z	1.302	1.302	0	%100
31	M18	X	.735	.735	0	%100
32	M18	Z	1.274	1.274	0	%100
33	M19	X	.77	.77	0	%100
34	M19	Z	1.334	1.334	0	%100
35	M20	X	.752	.752	0	%100
36	M20	Z	1.302	1.302	0	%100
37	M21	X	.752	.752	0	%100
38	M21	Z	1.302	1.302	0	%100
39	M22	X	1	1	0	%100
40	M22	Z	1.731	1.731	0	%100
41	M23	X	1	1	0	%100
42	M23	Z	1.731	1.731	0	%100
43	M24	X	1.169	1.169	0	%100
44	M24	Z	2.024	2.024	0	%100
45	M25	X	.77	.77	0	%100
46	M25	Z	1.334	1.334	0	%100
47	M26	X	.752	.752	0	%100
48	M26	Z	1.302	1.302	0	%100
49	M27	X	1.044	1.044	0	%100
50	M27	Z	1.809	1.809	0	%100
51	M28	X	.752	.752	0	%100
52	M28	Z	1.302	1.302	0	%100
53	M29	X	1.044	1.044	0	%100
54	M29	Z	1.809	1.809	0	%100
55	M30	X	.77	.77	0	%100
56	M30	Z	1.334	1.334	0	%100
57	M31	X	.752	.752	0	%100
58	M31	Z	1.302	1.302	0	%100
59	M32	X	.752	.752	0	%100
60	M32	Z	1.302	1.302	0	%100
61	M33	X	1	1	0	%100
62	M33	Z	1.731	1.731	0	%100
63	M34	X	1	1	0	%100
64	M34	Z	1.731	1.731	0	%100
65	M35	X	1.169	1.169	0	%100
66	M35	Z	2.024	2.024	0	%100
67	M36	X	.77	.77	0	%100
68	M36	Z	1.334	1.334	0	%100
69	MP6A	X	1.469	1.469	0	%100
70	MP6A	Z	2.544	2.544	0	%100
71	MP5A	X	1.469	1.469	0	%100
72	MP5A	Z	2.544	2.544	0	%100
73	MP3A	X	1.624	1.624	0	%100
74	MP3A	Z	2.813	2.813	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
75	MP1A	X	1.469	1.469	0	%100
76	MP1A	Z	2.544	2.544	0	%100
77	MP4A	X	1.469	1.469	0	%100
78	MP4A	Z	2.544	2.544	0	%100
79	MP2A	X	1.469	1.469	0	%100
80	MP2A	Z	2.544	2.544	0	%100
81	M55	X	.097	.097	0	%100
82	M55	Z	.167	.167	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	2.727	2.727	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	2.727	2.727	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	.533	.533	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	.533	.533	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	3.249	3.249	0	%100
11	M8	X	0	0	0	%100
12	M8	Z	.533	.533	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	.533	.533	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	3.249	3.249	0	%100
17	OVP	X	0	0	0	%100
18	OVP	Z	1.441	1.441	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	1.441	1.441	0	%100
21	M13	X	0	0	0	%100
22	M13	Z	1.441	1.441	0	%100
23	M14	X	0	0	0	%100
24	M14	Z	1.441	1.441	0	%100
25	M15	X	0	0	0	%100
26	M15	Z	1.099	1.099	0	%100
27	M16	X	0	0	0	%100
28	M16	Z	1.776	1.776	0	%100
29	M17	X	0	0	0	%100
30	M17	Z	1.099	1.099	0	%100
31	M18	X	0	0	0	%100
32	M18	Z	1.776	1.776	0	%100
33	M19	X	0	0	0	%100
34	M19	Z	1.149	1.149	0	%100
35	M20	X	0	0	0	%100
36	M20	Z	1.099	1.099	0	%100
37	M21	X	0	0	0	%100
38	M21	Z	1.099	1.099	0	%100
39	M22	X	0	0	0	%100
40	M22	Z	1.999	1.999	0	%100
41	M23	X	0	0	0	%100
42	M23	Z	1.999	1.999	0	%100
43	M24	X	0	0	0	%100
44	M24	Z	2.337	2.337	0	%100
45	M25	X	0	0	0	%100
46	M25	Z	1.149	1.149	0	%100
47	M26	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
48	M26	Z	1.099	1.099	0	%100
49	M27	X	0	0	0	%100
50	M27	Z	1.776	1.776	0	%100
51	M28	X	0	0	0	%100
52	M28	Z	1.099	1.099	0	%100
53	M29	X	0	0	0	%100
54	M29	Z	1.776	1.776	0	%100
55	M30	X	0	0	0	%100
56	M30	Z	1.149	1.149	0	%100
57	M31	X	0	0	0	%100
58	M31	Z	1.099	1.099	0	%100
59	M32	X	0	0	0	%100
60	M32	Z	1.099	1.099	0	%100
61	M33	X	0	0	0	%100
62	M33	Z	1.999	1.999	0	%100
63	M34	X	0	0	0	%100
64	M34	Z	1.999	1.999	0	%100
65	M35	X	0	0	0	%100
66	M35	Z	2.337	2.337	0	%100
67	M36	X	0	0	0	%100
68	M36	Z	1.149	1.149	0	%100
69	MP6A	X	0	0	0	%100
70	MP6A	Z	2.938	2.938	0	%100
71	MP5A	X	0	0	0	%100
72	MP5A	Z	2.938	2.938	0	%100
73	MP3A	X	0	0	0	%100
74	MP3A	Z	3.249	3.249	0	%100
75	MP1A	X	0	0	0	%100
76	MP1A	Z	2.938	2.938	0	%100
77	MP4A	X	0	0	0	%100
78	MP4A	Z	2.938	2.938	0	%100
79	MP2A	X	0	0	0	%100
80	MP2A	Z	2.938	2.938	0	%100
81	M55	X	0	0	0	%100
82	M55	Z	.694	.694	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-1.023	-1.023	0	%100
2	M1	Z	1.771	1.771	0	%100
3	M3	X	-1.023	-1.023	0	%100
4	M3	Z	1.771	1.771	0	%100
5	M5	X	-.034	-.034	0	%100
6	M5	Z	.059	.059	0	%100
7	M6	X	-.504	-.504	0	%100
8	M6	Z	.873	.873	0	%100
9	M7	X	-1.218	-1.218	0	%100
10	M7	Z	2.11	2.11	0	%100
11	M8	X	-.034	-.034	0	%100
12	M8	Z	.059	.059	0	%100
13	M9	X	-.504	-.504	0	%100
14	M9	Z	.873	.873	0	%100
15	M10	X	-1.218	-1.218	0	%100
16	M10	Z	2.11	2.11	0	%100
17	OVP	X	-.092	-.092	0	%100
18	OVP	Z	.159	.159	0	%100
19	M12	X	-1.364	-1.364	0	%100
20	M12	Z	2.362	2.362	0	%100





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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
21	M13	X	-0.092	-0.092	0 %100
22	M13	Z	.159	.159	0 %100
23	M14	X	-1.364	-1.364	0 %100
24	M14	Z	2.362	2.362	0 %100
25	M15	X	-.752	-.752	0 %100
26	M15	Z	1.302	1.302	0 %100
27	M16	X	-1.044	-1.044	0 %100
28	M16	Z	1.809	1.809	0 %100
29	M17	X	-.752	-.752	0 %100
30	M17	Z	1.302	1.302	0 %100
31	M18	X	-1.044	-1.044	0 %100
32	M18	Z	1.809	1.809	0 %100
33	M19	X	-.77	-.77	0 %100
34	M19	Z	1.334	1.334	0 %100
35	M20	X	-.752	-.752	0 %100
36	M20	Z	1.302	1.302	0 %100
37	M21	X	-.752	-.752	0 %100
38	M21	Z	1.302	1.302	0 %100
39	M22	X	-1	-1	0 %100
40	M22	Z	1.731	1.731	0 %100
41	M23	X	-1	-1	0 %100
42	M23	Z	1.731	1.731	0 %100
43	M24	X	-1.169	-1.169	0 %100
44	M24	Z	2.024	2.024	0 %100
45	M25	X	-.77	-.77	0 %100
46	M25	Z	1.334	1.334	0 %100
47	M26	X	-.752	-.752	0 %100
48	M26	Z	1.302	1.302	0 %100
49	M27	X	-.735	-.735	0 %100
50	M27	Z	1.274	1.274	0 %100
51	M28	X	-.752	-.752	0 %100
52	M28	Z	1.302	1.302	0 %100
53	M29	X	-.735	-.735	0 %100
54	M29	Z	1.274	1.274	0 %100
55	M30	X	-.77	-.77	0 %100
56	M30	Z	1.334	1.334	0 %100
57	M31	X	-.752	-.752	0 %100
58	M31	Z	1.302	1.302	0 %100
59	M32	X	-.752	-.752	0 %100
60	M32	Z	1.302	1.302	0 %100
61	M33	X	-1	-1	0 %100
62	M33	Z	1.731	1.731	0 %100
63	M34	X	-1	-1	0 %100
64	M34	Z	1.731	1.731	0 %100
65	M35	X	-1.169	-1.169	0 %100
66	M35	Z	2.024	2.024	0 %100
67	M36	X	-.77	-.77	0 %100
68	M36	Z	1.334	1.334	0 %100
69	MP6A	X	-1.469	-1.469	0 %100
70	MP6A	Z	2.544	2.544	0 %100
71	MP5A	X	-1.469	-1.469	0 %100
72	MP5A	Z	2.544	2.544	0 %100
73	MP3A	X	-1.624	-1.624	0 %100
74	MP3A	Z	2.813	2.813	0 %100
75	MP1A	X	-1.469	-1.469	0 %100
76	MP1A	Z	2.544	2.544	0 %100
77	MP4A	X	-1.469	-1.469	0 %100
78	MP4A	Z	2.544	2.544	0 %100
79	MP2A	X	-1.469	-1.469	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
80	MP2A	Z	2.544	2.544	0	%100
81	M55	X	-1.196	-1.196	0	%100
82	M55	Z	2.072	2.072	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-.59	-.59	0	%100
2	M1	Z	.341	.341	0	%100
3	M3	X	-.59	-.59	0	%100
4	M3	Z	.341	.341	0	%100
5	M5	X	-.068	-.068	0	%100
6	M5	Z	.039	.039	0	%100
7	M6	X	-.882	-.882	0	%100
8	M6	Z	.509	.509	0	%100
9	M7	X	-.703	-.703	0	%100
10	M7	Z	.406	.406	0	%100
11	M8	X	-.068	-.068	0	%100
12	M8	Z	.039	.039	0	%100
13	M9	X	-.882	-.882	0	%100
14	M9	Z	.509	.509	0	%100
15	M10	X	-.703	-.703	0	%100
16	M10	Z	.406	.406	0	%100
17	OVP	X	-.183	-.183	0	%100
18	OVP	Z	.106	.106	0	%100
19	M12	X	-2.386	-2.386	0	%100
20	M12	Z	1.378	1.378	0	%100
21	M13	X	-.183	-.183	0	%100
22	M13	Z	.106	.106	0	%100
23	M14	X	-2.386	-2.386	0	%100
24	M14	Z	1.378	1.378	0	%100
25	M15	X	-2.003	-2.003	0	%100
26	M15	Z	1.156	1.156	0	%100
27	M16	X	-1.815	-1.815	0	%100
28	M16	Z	1.048	1.048	0	%100
29	M17	X	-2.003	-2.003	0	%100
30	M17	Z	1.156	1.156	0	%100
31	M18	X	-1.815	-1.815	0	%100
32	M18	Z	1.048	1.048	0	%100
33	M19	X	-2.013	-2.013	0	%100
34	M19	Z	1.162	1.162	0	%100
35	M20	X	-2.003	-2.003	0	%100
36	M20	Z	1.156	1.156	0	%100
37	M21	X	-2.003	-2.003	0	%100
38	M21	Z	1.156	1.156	0	%100
39	M22	X	-1.731	-1.731	0	%100
40	M22	Z	1	1	0	%100
41	M23	X	-1.731	-1.731	0	%100
42	M23	Z	1	1	0	%100
43	M24	X	-2.024	-2.024	0	%100
44	M24	Z	1.169	1.169	0	%100
45	M25	X	-2.013	-2.013	0	%100
46	M25	Z	1.162	1.162	0	%100
47	M26	X	-2.003	-2.003	0	%100
48	M26	Z	1.156	1.156	0	%100
49	M27	X	-1.28	-1.28	0	%100
50	M27	Z	.739	.739	0	%100
51	M28	X	-2.003	-2.003	0	%100
52	M28	Z	1.156	1.156	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
53	M29	X	-1.28	-1.28	0	%100
54	M29	Z	.739	.739	0	%100
55	M30	X	-2.013	-2.013	0	%100
56	M30	Z	1.162	1.162	0	%100
57	M31	X	-2.003	-2.003	0	%100
58	M31	Z	1.156	1.156	0	%100
59	M32	X	-2.003	-2.003	0	%100
60	M32	Z	1.156	1.156	0	%100
61	M33	X	-1.731	-1.731	0	%100
62	M33	Z	1	1	0	%100
63	M34	X	-1.731	-1.731	0	%100
64	M34	Z	1	1	0	%100
65	M35	X	-2.024	-2.024	0	%100
66	M35	Z	1.169	1.169	0	%100
67	M36	X	-2.013	-2.013	0	%100
68	M36	Z	1.162	1.162	0	%100
69	MP6A	X	-2.544	-2.544	0	%100
70	MP6A	Z	1.469	1.469	0	%100
71	MP5A	X	-2.544	-2.544	0	%100
72	MP5A	Z	1.469	1.469	0	%100
73	MP3A	X	-2.813	-2.813	0	%100
74	MP3A	Z	1.624	1.624	0	%100
75	MP1A	X	-2.544	-2.544	0	%100
76	MP1A	Z	1.469	1.469	0	%100
77	MP4A	X	-2.544	-2.544	0	%100
78	MP4A	Z	1.469	1.469	0	%100
79	MP2A	X	-2.544	-2.544	0	%100
80	MP2A	Z	1.469	1.469	0	%100
81	M55	X	-3.109	-3.109	0	%100
82	M55	Z	1.795	1.795	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	0	0	0	%100
5	M5	X	-.553	-.553	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	-.553	-.553	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M8	X	-.553	-.553	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	-.553	-.553	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	0	0	0	%100
17	OVP	X	-1.497	-1.497	0	%100
18	OVP	Z	0	0	0	%100
19	M12	X	-1.497	-1.497	0	%100
20	M12	Z	0	0	0	%100
21	M13	X	-1.497	-1.497	0	%100
22	M13	Z	0	0	0	%100
23	M14	X	-1.497	-1.497	0	%100
24	M14	Z	0	0	0	%100
25	M15	X	-2.717	-2.717	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
26	M15	Z	0	0	0	%100
27	M16	X	-1.79	-1.79	0	%100
28	M16	Z	0	0	0	%100
29	M17	X	-2.717	-2.717	0	%100
30	M17	Z	0	0	0	%100
31	M18	X	-1.79	-1.79	0	%100
32	M18	Z	0	0	0	%100
33	M19	X	-2.717	-2.717	0	%100
34	M19	Z	0	0	0	%100
35	M20	X	-2.717	-2.717	0	%100
36	M20	Z	0	0	0	%100
37	M21	X	-2.717	-2.717	0	%100
38	M21	Z	0	0	0	%100
39	M22	X	-1.999	-1.999	0	%100
40	M22	Z	0	0	0	%100
41	M23	X	-1.999	-1.999	0	%100
42	M23	Z	0	0	0	%100
43	M24	X	-2.337	-2.337	0	%100
44	M24	Z	0	0	0	%100
45	M25	X	-2.717	-2.717	0	%100
46	M25	Z	0	0	0	%100
47	M26	X	-2.717	-2.717	0	%100
48	M26	Z	0	0	0	%100
49	M27	X	-1.79	-1.79	0	%100
50	M27	Z	0	0	0	%100
51	M28	X	-2.717	-2.717	0	%100
52	M28	Z	0	0	0	%100
53	M29	X	-1.79	-1.79	0	%100
54	M29	Z	0	0	0	%100
55	M30	X	-2.717	-2.717	0	%100
56	M30	Z	0	0	0	%100
57	M31	X	-2.717	-2.717	0	%100
58	M31	Z	0	0	0	%100
59	M32	X	-2.717	-2.717	0	%100
60	M32	Z	0	0	0	%100
61	M33	X	-1.999	-1.999	0	%100
62	M33	Z	0	0	0	%100
63	M34	X	-1.999	-1.999	0	%100
64	M34	Z	0	0	0	%100
65	M35	X	-2.337	-2.337	0	%100
66	M35	Z	0	0	0	%100
67	M36	X	-2.717	-2.717	0	%100
68	M36	Z	0	0	0	%100
69	MP6A	X	-2.938	-2.938	0	%100
70	MP6A	Z	0	0	0	%100
71	MP5A	X	-2.938	-2.938	0	%100
72	MP5A	Z	0	0	0	%100
73	MP3A	X	-3.249	-3.249	0	%100
74	MP3A	Z	0	0	0	%100
75	MP1A	X	-2.938	-2.938	0	%100
76	MP1A	Z	0	0	0	%100
77	MP4A	X	-2.938	-2.938	0	%100
78	MP4A	Z	0	0	0	%100
79	MP2A	X	-2.938	-2.938	0	%100
80	MP2A	Z	0	0	0	%100
81	M55	X	-3.09	-3.09	0	%100
82	M55	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-59	-59	0	%100
2	M1	Z	-341	-341	0	%100
3	M3	X	-59	-59	0	%100
4	M3	Z	-341	-341	0	%100
5	M5	X	-882	-882	0	%100
6	M5	Z	-509	-509	0	%100
7	M6	X	-068	-068	0	%100
8	M6	Z	-039	-039	0	%100
9	M7	X	-703	-703	0	%100
10	M7	Z	-406	-406	0	%100
11	M8	X	-882	-882	0	%100
12	M8	Z	-509	-509	0	%100
13	M9	X	-068	-068	0	%100
14	M9	Z	-039	-039	0	%100
15	M10	X	-703	-703	0	%100
16	M10	Z	-406	-406	0	%100
17	OVP	X	-2.386	-2.386	0	%100
18	OVP	Z	-1.378	-1.378	0	%100
19	M12	X	-183	-183	0	%100
20	M12	Z	-106	-106	0	%100
21	M13	X	-2.386	-2.386	0	%100
22	M13	Z	-1.378	-1.378	0	%100
23	M14	X	-183	-183	0	%100
24	M14	Z	-106	-106	0	%100
25	M15	X	-2.003	-2.003	0	%100
26	M15	Z	-1.156	-1.156	0	%100
27	M16	X	-1.28	-1.28	0	%100
28	M16	Z	-739	-739	0	%100
29	M17	X	-2.003	-2.003	0	%100
30	M17	Z	-1.156	-1.156	0	%100
31	M18	X	-1.28	-1.28	0	%100
32	M18	Z	-739	-739	0	%100
33	M19	X	-2.013	-2.013	0	%100
34	M19	Z	-1.162	-1.162	0	%100
35	M20	X	-2.003	-2.003	0	%100
36	M20	Z	-1.156	-1.156	0	%100
37	M21	X	-2.003	-2.003	0	%100
38	M21	Z	-1.156	-1.156	0	%100
39	M22	X	-1.731	-1.731	0	%100
40	M22	Z	-1	-1	0	%100
41	M23	X	-1.731	-1.731	0	%100
42	M23	Z	-1	-1	0	%100
43	M24	X	-2.024	-2.024	0	%100
44	M24	Z	-1.169	-1.169	0	%100
45	M25	X	-2.013	-2.013	0	%100
46	M25	Z	-1.162	-1.162	0	%100
47	M26	X	-2.003	-2.003	0	%100
48	M26	Z	-1.156	-1.156	0	%100
49	M27	X	-1.815	-1.815	0	%100
50	M27	Z	-1.048	-1.048	0	%100
51	M28	X	-2.003	-2.003	0	%100
52	M28	Z	-1.156	-1.156	0	%100
53	M29	X	-1.815	-1.815	0	%100
54	M29	Z	-1.048	-1.048	0	%100
55	M30	X	-2.013	-2.013	0	%100
56	M30	Z	-1.162	-1.162	0	%100
57	M31	X	-2.003	-2.003	0	%100
58	M31	Z	-1.156	-1.156	0	%100
59	M32	X	-2.003	-2.003	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
60	M32	Z	-1.156	-1.156	0	%100
61	M33	X	-1.731	-1.731	0	%100
62	M33	Z	-1	-1	0	%100
63	M34	X	-1.731	-1.731	0	%100
64	M34	Z	-1	-1	0	%100
65	M35	X	-2.024	-2.024	0	%100
66	M35	Z	-1.169	-1.169	0	%100
67	M36	X	-2.013	-2.013	0	%100
68	M36	Z	-1.162	-1.162	0	%100
69	MP6A	X	-2.544	-2.544	0	%100
70	MP6A	Z	-1.469	-1.469	0	%100
71	MP5A	X	-2.544	-2.544	0	%100
72	MP5A	Z	-1.469	-1.469	0	%100
73	MP3A	X	-2.813	-2.813	0	%100
74	MP3A	Z	-1.624	-1.624	0	%100
75	MP1A	X	-2.544	-2.544	0	%100
76	MP1A	Z	-1.469	-1.469	0	%100
77	MP4A	X	-2.544	-2.544	0	%100
78	MP4A	Z	-1.469	-1.469	0	%100
79	MP2A	X	-2.544	-2.544	0	%100
80	MP2A	Z	-1.469	-1.469	0	%100
81	M55	X	-1.205	-1.205	0	%100
82	M55	Z	-.696	-.696	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-1.023	-1.023	0	%100
2	M1	Z	-1.771	-1.771	0	%100
3	M3	X	-1.023	-1.023	0	%100
4	M3	Z	-1.771	-1.771	0	%100
5	M5	X	-.504	-.504	0	%100
6	M5	Z	-.873	-.873	0	%100
7	M6	X	-.034	-.034	0	%100
8	M6	Z	-.059	-.059	0	%100
9	M7	X	-1.218	-1.218	0	%100
10	M7	Z	-2.11	-2.11	0	%100
11	M8	X	-.504	-.504	0	%100
12	M8	Z	-.873	-.873	0	%100
13	M9	X	-.034	-.034	0	%100
14	M9	Z	-.059	-.059	0	%100
15	M10	X	-1.218	-1.218	0	%100
16	M10	Z	-2.11	-2.11	0	%100
17	OVP	X	-1.364	-1.364	0	%100
18	OVP	Z	-2.362	-2.362	0	%100
19	M12	X	-.092	-.092	0	%100
20	M12	Z	-.159	-.159	0	%100
21	M13	X	-1.364	-1.364	0	%100
22	M13	Z	-2.362	-2.362	0	%100
23	M14	X	-.092	-.092	0	%100
24	M14	Z	-.159	-.159	0	%100
25	M15	X	-.752	-.752	0	%100
26	M15	Z	-1.302	-1.302	0	%100
27	M16	X	-.735	-.735	0	%100
28	M16	Z	-1.274	-1.274	0	%100
29	M17	X	-.752	-.752	0	%100
30	M17	Z	-1.302	-1.302	0	%100
31	M18	X	-.735	-.735	0	%100
32	M18	Z	-1.274	-1.274	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
33	M19	X	-0.77	-0.77	0	%100
34	M19	Z	-1.334	-1.334	0	%100
35	M20	X	-0.752	-0.752	0	%100
36	M20	Z	-1.302	-1.302	0	%100
37	M21	X	-0.752	-0.752	0	%100
38	M21	Z	-1.302	-1.302	0	%100
39	M22	X	-1	-1	0	%100
40	M22	Z	-1.731	-1.731	0	%100
41	M23	X	-1	-1	0	%100
42	M23	Z	-1.731	-1.731	0	%100
43	M24	X	-1.169	-1.169	0	%100
44	M24	Z	-2.024	-2.024	0	%100
45	M25	X	-0.77	-0.77	0	%100
46	M25	Z	-1.334	-1.334	0	%100
47	M26	X	-0.752	-0.752	0	%100
48	M26	Z	-1.302	-1.302	0	%100
49	M27	X	-1.044	-1.044	0	%100
50	M27	Z	-1.809	-1.809	0	%100
51	M28	X	-0.752	-0.752	0	%100
52	M28	Z	-1.302	-1.302	0	%100
53	M29	X	-1.044	-1.044	0	%100
54	M29	Z	-1.809	-1.809	0	%100
55	M30	X	-0.77	-0.77	0	%100
56	M30	Z	-1.334	-1.334	0	%100
57	M31	X	-0.752	-0.752	0	%100
58	M31	Z	-1.302	-1.302	0	%100
59	M32	X	-0.752	-0.752	0	%100
60	M32	Z	-1.302	-1.302	0	%100
61	M33	X	-1	-1	0	%100
62	M33	Z	-1.731	-1.731	0	%100
63	M34	X	-1	-1	0	%100
64	M34	Z	-1.731	-1.731	0	%100
65	M35	X	-1.169	-1.169	0	%100
66	M35	Z	-2.024	-2.024	0	%100
67	M36	X	-0.77	-0.77	0	%100
68	M36	Z	-1.334	-1.334	0	%100
69	MP6A	X	-1.469	-1.469	0	%100
70	MP6A	Z	-2.544	-2.544	0	%100
71	MP5A	X	-1.469	-1.469	0	%100
72	MP5A	Z	-2.544	-2.544	0	%100
73	MP3A	X	-1.624	-1.624	0	%100
74	MP3A	Z	-2.813	-2.813	0	%100
75	MP1A	X	-1.469	-1.469	0	%100
76	MP1A	Z	-2.544	-2.544	0	%100
77	MP4A	X	-1.469	-1.469	0	%100
78	MP4A	Z	-2.544	-2.544	0	%100
79	MP2A	X	-1.469	-1.469	0	%100
80	MP2A	Z	-2.544	-2.544	0	%100
81	M55	X	-0.097	-0.097	0	%100
82	M55	Z	-0.167	-0.167	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	-0.007	-0.007	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	-0.007	-0.007	0	%100
5	M5	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft...]	Start Location[ft.%]	End Location[ft.%]
6	M5	Z	-0.00411	-0.00411	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	-0.00411	-0.00411	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	-0.006	-0.006	0	%100
11	M8	X	0	0	0	%100
12	M8	Z	-0.00411	-0.00411	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	-0.00411	-0.00411	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	-0.006	-0.006	0	%100
17	OVP	X	0	0	0	%100
18	OVP	Z	-0.003	-0.003	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	-0.003	-0.003	0	%100
21	M13	X	0	0	0	%100
22	M13	Z	-0.003	-0.003	0	%100
23	M14	X	0	0	0	%100
24	M14	Z	-0.003	-0.003	0	%100
25	M15	X	0	0	0	%100
26	M15	Z	-0.000885	-0.000885	0	%100
27	M16	X	0	0	0	%100
28	M16	Z	-0.002	-0.002	0	%100
29	M17	X	0	0	0	%100
30	M17	Z	-0.000885	-0.000885	0	%100
31	M18	X	0	0	0	%100
32	M18	Z	-0.002	-0.002	0	%100
33	M19	X	0	0	0	%100
34	M19	Z	-0.001	-0.001	0	%100
35	M20	X	0	0	0	%100
36	M20	Z	-0.000885	-0.000885	0	%100
37	M21	X	0	0	0	%100
38	M21	Z	-0.000885	-0.000885	0	%100
39	M22	X	0	0	0	%100
40	M22	Z	-0.003	-0.003	0	%100
41	M23	X	0	0	0	%100
42	M23	Z	-0.003	-0.003	0	%100
43	M24	X	0	0	0	%100
44	M24	Z	-0.004	-0.004	0	%100
45	M25	X	0	0	0	%100
46	M25	Z	-0.001	-0.001	0	%100
47	M26	X	0	0	0	%100
48	M26	Z	-0.000885	-0.000885	0	%100
49	M27	X	0	0	0	%100
50	M27	Z	-0.002	-0.002	0	%100
51	M28	X	0	0	0	%100
52	M28	Z	-0.000885	-0.000885	0	%100
53	M29	X	0	0	0	%100
54	M29	Z	-0.002	-0.002	0	%100
55	M30	X	0	0	0	%100
56	M30	Z	-0.001	-0.001	0	%100
57	M31	X	0	0	0	%100
58	M31	Z	-0.000885	-0.000885	0	%100
59	M32	X	0	0	0	%100
60	M32	Z	-0.000885	-0.000885	0	%100
61	M33	X	0	0	0	%100
62	M33	Z	-0.003	-0.003	0	%100
63	M34	X	0	0	0	%100
64	M34	Z	-0.003	-0.003	0	%100





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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
65	M35	X	0	0	0	%100
66	M35	Z	-0.004	-0.004	0	%100
67	M36	X	0	0	0	%100
68	M36	Z	-0.001	-0.001	0	%100
69	MP6A	X	0	0	0	%100
70	MP6A	Z	-0.005	-0.005	0	%100
71	MP5A	X	0	0	0	%100
72	MP5A	Z	-0.005	-0.005	0	%100
73	MP3A	X	0	0	0	%100
74	MP3A	Z	-0.006	-0.006	0	%100
75	MP1A	X	0	0	0	%100
76	MP1A	Z	-0.005	-0.005	0	%100
77	MP4A	X	0	0	0	%100
78	MP4A	Z	-0.005	-0.005	0	%100
79	MP2A	X	0	0	0	%100
80	MP2A	Z	-0.005	-0.005	0	%100
81	M55	X	0	0	0	%100
82	M55	Z	-0.001	-0.001	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.003	.003	0	%100
2	M1	Z	-0.004	-0.004	0	%100
3	M3	X	.003	.003	0	%100
4	M3	Z	-0.004	-0.004	0	%100
5	M5	X	2.6e-5	2.6e-5	0	%100
6	M5	Z	-4.5e-5	-4.5e-5	0	%100
7	M6	X	.000389	.000389	0	%100
8	M6	Z	-0.000674	-0.000674	0	%100
9	M7	X	.002	.002	0	%100
10	M7	Z	-0.004	-0.004	0	%100
11	M8	X	2.6e-5	2.6e-5	0	%100
12	M8	Z	-4.5e-5	-4.5e-5	0	%100
13	M9	X	.000389	.000389	0	%100
14	M9	Z	-0.000674	-0.000674	0	%100
15	M10	X	.002	.002	0	%100
16	M10	Z	-0.004	-0.004	0	%100
17	OVP	X	.000165	.000165	0	%100
18	OVP	Z	-0.000287	-0.000287	0	%100
19	M12	X	.002	.002	0	%100
20	M12	Z	-0.004	-0.004	0	%100
21	M13	X	.000165	.000165	0	%100
22	M13	Z	-0.000287	-0.000287	0	%100
23	M14	X	.002	.002	0	%100
24	M14	Z	-0.004	-0.004	0	%100
25	M15	X	.001	.001	0	%100
26	M15	Z	-0.002	-0.002	0	%100
27	M16	X	.001	.001	0	%100
28	M16	Z	-0.002	-0.002	0	%100
29	M17	X	.001	.001	0	%100
30	M17	Z	-0.002	-0.002	0	%100
31	M18	X	.001	.001	0	%100
32	M18	Z	-0.002	-0.002	0	%100
33	M19	X	.001	.001	0	%100
34	M19	Z	-0.002	-0.002	0	%100
35	M20	X	.001	.001	0	%100
36	M20	Z	-0.002	-0.002	0	%100
37	M21	X	.001	.001	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
38	M21	Z	-.002	-.002	0	%100
39	M22	X	.001	.001	0	%100
40	M22	Z	-.002	-.002	0	%100
41	M23	X	.001	.001	0	%100
42	M23	Z	-.002	-.002	0	%100
43	M24	X	.002	.002	0	%100
44	M24	Z	-.004	-.004	0	%100
45	M25	X	.001	.001	0	%100
46	M25	Z	-.002	-.002	0	%100
47	M26	X	.001	.001	0	%100
48	M26	Z	-.002	-.002	0	%100
49	M27	X	.000961	.000961	0	%100
50	M27	Z	-.002	-.002	0	%100
51	M28	X	.001	.001	0	%100
52	M28	Z	-.002	-.002	0	%100
53	M29	X	.000961	.000961	0	%100
54	M29	Z	-.002	-.002	0	%100
55	M30	X	.001	.001	0	%100
56	M30	Z	-.002	-.002	0	%100
57	M31	X	.001	.001	0	%100
58	M31	Z	-.002	-.002	0	%100
59	M32	X	.001	.001	0	%100
60	M32	Z	-.002	-.002	0	%100
61	M33	X	.001	.001	0	%100
62	M33	Z	-.002	-.002	0	%100
63	M34	X	.001	.001	0	%100
64	M34	Z	-.002	-.002	0	%100
65	M35	X	.002	.002	0	%100
66	M35	Z	-.004	-.004	0	%100
67	M36	X	.001	.001	0	%100
68	M36	Z	-.002	-.002	0	%100
69	MP6A	X	.003	.003	0	%100
70	MP6A	Z	-.005	-.005	0	%100
71	MP5A	X	.003	.003	0	%100
72	MP5A	Z	-.005	-.005	0	%100
73	MP3A	X	.003	.003	0	%100
74	MP3A	Z	-.006	-.006	0	%100
75	MP1A	X	.003	.003	0	%100
76	MP1A	Z	-.005	-.005	0	%100
77	MP4A	X	.003	.003	0	%100
78	MP4A	Z	-.005	-.005	0	%100
79	MP2A	X	.003	.003	0	%100
80	MP2A	Z	-.005	-.005	0	%100
81	M55	X	.003	.003	0	%100
82	M55	Z	-.004	-.004	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.001	.001	0	%100
2	M1	Z	-.000839	-.000839	0	%100
3	M3	X	.001	.001	0	%100
4	M3	Z	-.000839	-.000839	0	%100
5	M5	X	5.2e-5	5.2e-5	0	%100
6	M5	Z	-3e-5	-3e-5	0	%100
7	M6	X	.000681	.000681	0	%100
8	M6	Z	-.000393	-.000393	0	%100
9	M7	X	.001	.001	0	%100
10	M7	Z	-.000804	-.000804	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location(ft.%)	End Location(ft.%)
11	M8	X	5.2e-5	5.2e-5	0	%100
12	M8	Z	-3e-5	-3e-5	0	%100
13	M9	X	.000681	.000681	0	%100
14	M9	Z	-.000393	-.000393	0	%100
15	M10	X	.001	.001	0	%100
16	M10	Z	-.000804	-.000804	0	%100
17	OVP	X	.00033	.00033	0	%100
18	OVP	Z	-.000191	-.000191	0	%100
19	M12	X	.004	.004	0	%100
20	M12	Z	-.002	-.002	0	%100
21	M13	X	.00033	.00033	0	%100
22	M13	Z	-.000191	-.000191	0	%100
23	M14	X	.004	.004	0	%100
24	M14	Z	-.002	-.002	0	%100
25	M15	X	.005	.005	0	%100
26	M15	Z	-.003	-.003	0	%100
27	M16	X	.002	.002	0	%100
28	M16	Z	-.001	-.001	0	%100
29	M17	X	.005	.005	0	%100
30	M17	Z	-.003	-.003	0	%100
31	M18	X	.002	.002	0	%100
32	M18	Z	-.001	-.001	0	%100
33	M19	X	.005	.005	0	%100
34	M19	Z	-.003	-.003	0	%100
35	M20	X	.005	.005	0	%100
36	M20	Z	-.003	-.003	0	%100
37	M21	X	.005	.005	0	%100
38	M21	Z	-.003	-.003	0	%100
39	M22	X	.002	.002	0	%100
40	M22	Z	-.001	-.001	0	%100
41	M23	X	.002	.002	0	%100
42	M23	Z	-.001	-.001	0	%100
43	M24	X	.004	.004	0	%100
44	M24	Z	-.002	-.002	0	%100
45	M25	X	.005	.005	0	%100
46	M25	Z	-.003	-.003	0	%100
47	M26	X	.005	.005	0	%100
48	M26	Z	-.003	-.003	0	%100
49	M27	X	.002	.002	0	%100
50	M27	Z	-.000965	-.000965	0	%100
51	M28	X	.005	.005	0	%100
52	M28	Z	-.003	-.003	0	%100
53	M29	X	.002	.002	0	%100
54	M29	Z	-.000965	-.000965	0	%100
55	M30	X	.005	.005	0	%100
56	M30	Z	-.003	-.003	0	%100
57	M31	X	.005	.005	0	%100
58	M31	Z	-.003	-.003	0	%100
59	M32	X	.005	.005	0	%100
60	M32	Z	-.003	-.003	0	%100
61	M33	X	.002	.002	0	%100
62	M33	Z	-.001	-.001	0	%100
63	M34	X	.002	.002	0	%100
64	M34	Z	-.001	-.001	0	%100
65	M35	X	.004	.004	0	%100
66	M35	Z	-.002	-.002	0	%100
67	M36	X	.005	.005	0	%100
68	M36	Z	-.003	-.003	0	%100
69	MP6A	X	.005	.005	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
70	MP6A	Z	-.003	-.003	0	%100
71	MP5A	X	.005	.005	0	%100
72	MP5A	Z	-.003	-.003	0	%100
73	MP3A	X	.006	.006	0	%100
74	MP3A	Z	-.003	-.003	0	%100
75	MP1A	X	.005	.005	0	%100
76	MP1A	Z	-.003	-.003	0	%100
77	MP4A	X	.005	.005	0	%100
78	MP4A	Z	-.003	-.003	0	%100
79	MP2A	X	.005	.005	0	%100
80	MP2A	Z	-.003	-.003	0	%100
81	M55	X	.007	.007	0	%100
82	M55	Z	-.004	-.004	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	0	0	0	%100
5	M5	X	.000427	.000427	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	.000427	.000427	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M8	X	.000427	.000427	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	.000427	.000427	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	0	0	0	%100
17	OVP	X	.003	.003	0	%100
18	OVP	Z	0	0	0	%100
19	M12	X	.003	.003	0	%100
20	M12	Z	0	0	0	%100
21	M13	X	.003	.003	0	%100
22	M13	Z	0	0	0	%100
23	M14	X	.003	.003	0	%100
24	M14	Z	0	0	0	%100
25	M15	X	.007	.007	0	%100
26	M15	Z	0	0	0	%100
27	M16	X	.002	.002	0	%100
28	M16	Z	0	0	0	%100
29	M17	X	.007	.007	0	%100
30	M17	Z	0	0	0	%100
31	M18	X	.002	.002	0	%100
32	M18	Z	0	0	0	%100
33	M19	X	.007	.007	0	%100
34	M19	Z	0	0	0	%100
35	M20	X	.007	.007	0	%100
36	M20	Z	0	0	0	%100
37	M21	X	.007	.007	0	%100
38	M21	Z	0	0	0	%100
39	M22	X	.003	.003	0	%100
40	M22	Z	0	0	0	%100
41	M23	X	.003	.003	0	%100
42	M23	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location(ft.%)	End Location(ft.%)
43	M24	X	.004	.004	0	%100
44	M24	Z	0	0	0	%100
45	M25	X	.007	.007	0	%100
46	M25	Z	0	0	0	%100
47	M26	X	.007	.007	0	%100
48	M26	Z	0	0	0	%100
49	M27	X	.002	.002	0	%100
50	M27	Z	0	0	0	%100
51	M28	X	.007	.007	0	%100
52	M28	Z	0	0	0	%100
53	M29	X	.002	.002	0	%100
54	M29	Z	0	0	0	%100
55	M30	X	.007	.007	0	%100
56	M30	Z	0	0	0	%100
57	M31	X	.007	.007	0	%100
58	M31	Z	0	0	0	%100
59	M32	X	.007	.007	0	%100
60	M32	Z	0	0	0	%100
61	M33	X	.003	.003	0	%100
62	M33	Z	0	0	0	%100
63	M34	X	.003	.003	0	%100
64	M34	Z	0	0	0	%100
65	M35	X	.004	.004	0	%100
66	M35	Z	0	0	0	%100
67	M36	X	.007	.007	0	%100
68	M36	Z	0	0	0	%100
69	MP6A	X	.005	.005	0	%100
70	MP6A	Z	0	0	0	%100
71	MP5A	X	.005	.005	0	%100
72	MP5A	Z	0	0	0	%100
73	MP3A	X	.006	.006	0	%100
74	MP3A	Z	0	0	0	%100
75	MP1A	X	.005	.005	0	%100
76	MP1A	Z	0	0	0	%100
77	MP4A	X	.005	.005	0	%100
78	MP4A	Z	0	0	0	%100
79	MP2A	X	.005	.005	0	%100
80	MP2A	Z	0	0	0	%100
81	M55	X	.007	.007	0	%100
82	M55	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location(ft.%)	End Location(ft.%)
1	M1	X	.001	.001	0	%100
2	M1	Z	.000839	.000839	0	%100
3	M3	X	.001	.001	0	%100
4	M3	Z	.000839	.000839	0	%100
5	M5	X	.000681	.000681	0	%100
6	M5	Z	.000393	.000393	0	%100
7	M6	X	5.2e-5	5.2e-5	0	%100
8	M6	Z	3e-5	3e-5	0	%100
9	M7	X	.001	.001	0	%100
10	M7	Z	.000804	.000804	0	%100
11	M8	X	.000681	.000681	0	%100
12	M8	Z	.000393	.000393	0	%100
13	M9	X	5.2e-5	5.2e-5	0	%100
14	M9	Z	3e-5	3e-5	0	%100
15	M10	X	.001	.001	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
16	M10	Z	.000804	.000804	0 %100
17	OVP	X	.004	.004	0 %100
18	OVP	Z	.002	.002	0 %100
19	M12	X	.00033	.00033	0 %100
20	M12	Z	.000191	.000191	0 %100
21	M13	X	.004	.004	0 %100
22	M13	Z	.002	.002	0 %100
23	M14	X	.00033	.00033	0 %100
24	M14	Z	.000191	.000191	0 %100
25	M15	X	.005	.005	0 %100
26	M15	Z	.003	.003	0 %100
27	M16	X	.002	.002	0 %100
28	M16	Z	.000965	.000965	0 %100
29	M17	X	.005	.005	0 %100
30	M17	Z	.003	.003	0 %100
31	M18	X	.002	.002	0 %100
32	M18	Z	.000965	.000965	0 %100
33	M19	X	.005	.005	0 %100
34	M19	Z	.003	.003	0 %100
35	M20	X	.005	.005	0 %100
36	M20	Z	.003	.003	0 %100
37	M21	X	.005	.005	0 %100
38	M21	Z	.003	.003	0 %100
39	M22	X	.002	.002	0 %100
40	M22	Z	.001	.001	0 %100
41	M23	X	.002	.002	0 %100
42	M23	Z	.001	.001	0 %100
43	M24	X	.004	.004	0 %100
44	M24	Z	.002	.002	0 %100
45	M25	X	.005	.005	0 %100
46	M25	Z	.003	.003	0 %100
47	M26	X	.005	.005	0 %100
48	M26	Z	.003	.003	0 %100
49	M27	X	.002	.002	0 %100
50	M27	Z	.001	.001	0 %100
51	M28	X	.005	.005	0 %100
52	M28	Z	.003	.003	0 %100
53	M29	X	.002	.002	0 %100
54	M29	Z	.001	.001	0 %100
55	M30	X	.005	.005	0 %100
56	M30	Z	.003	.003	0 %100
57	M31	X	.005	.005	0 %100
58	M31	Z	.003	.003	0 %100
59	M32	X	.005	.005	0 %100
60	M32	Z	.003	.003	0 %100
61	M33	X	.002	.002	0 %100
62	M33	Z	.001	.001	0 %100
63	M34	X	.002	.002	0 %100
64	M34	Z	.001	.001	0 %100
65	M35	X	.004	.004	0 %100
66	M35	Z	.002	.002	0 %100
67	M36	X	.005	.005	0 %100
68	M36	Z	.003	.003	0 %100
69	MP6A	X	.005	.005	0 %100
70	MP6A	Z	.003	.003	0 %100
71	MP5A	X	.005	.005	0 %100
72	MP5A	Z	.003	.003	0 %100
73	MP3A	X	.006	.006	0 %100
74	MP3A	Z	.003	.003	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
75	MP1A	X	.005	.005	0	%100
76	MP1A	Z	.003	.003	0	%100
77	MP4A	X	.005	.005	0	%100
78	MP4A	Z	.003	.003	0	%100
79	MP2A	X	.005	.005	0	%100
80	MP2A	Z	.003	.003	0	%100
81	M55	X	.003	.003	0	%100
82	M55	Z	.001	.001	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.003	.003	0	%100
2	M1	Z	.004	.004	0	%100
3	M3	X	.003	.003	0	%100
4	M3	Z	.004	.004	0	%100
5	M5	X	.000389	.000389	0	%100
6	M5	Z	.000674	.000674	0	%100
7	M6	X	2.6e-5	2.6e-5	0	%100
8	M6	Z	4.5e-5	4.5e-5	0	%100
9	M7	X	.002	.002	0	%100
10	M7	Z	.004	.004	0	%100
11	M8	X	.000389	.000389	0	%100
12	M8	Z	.000674	.000674	0	%100
13	M9	X	2.6e-5	2.6e-5	0	%100
14	M9	Z	4.5e-5	4.5e-5	0	%100
15	M10	X	.002	.002	0	%100
16	M10	Z	.004	.004	0	%100
17	OVP	X	.002	.002	0	%100
18	OVP	Z	.004	.004	0	%100
19	M12	X	.000165	.000165	0	%100
20	M12	Z	.000287	.000287	0	%100
21	M13	X	.002	.002	0	%100
22	M13	Z	.004	.004	0	%100
23	M14	X	.000165	.000165	0	%100
24	M14	Z	.000287	.000287	0	%100
25	M15	X	.001	.001	0	%100
26	M15	Z	.002	.002	0	%100
27	M16	X	.000961	.000961	0	%100
28	M16	Z	.002	.002	0	%100
29	M17	X	.001	.001	0	%100
30	M17	Z	.002	.002	0	%100
31	M18	X	.000961	.000961	0	%100
32	M18	Z	.002	.002	0	%100
33	M19	X	.001	.001	0	%100
34	M19	Z	.002	.002	0	%100
35	M20	X	.001	.001	0	%100
36	M20	Z	.002	.002	0	%100
37	M21	X	.001	.001	0	%100
38	M21	Z	.002	.002	0	%100
39	M22	X	.001	.001	0	%100
40	M22	Z	.002	.002	0	%100
41	M23	X	.001	.001	0	%100
42	M23	Z	.002	.002	0	%100
43	M24	X	.002	.002	0	%100
44	M24	Z	.004	.004	0	%100
45	M25	X	.001	.001	0	%100
46	M25	Z	.002	.002	0	%100
47	M26	X	.001	.001	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
48	M26	Z	.002	.002	0	%100
49	M27	X	.001	.001	0	%100
50	M27	Z	.002	.002	0	%100
51	M28	X	.001	.001	0	%100
52	M28	Z	.002	.002	0	%100
53	M29	X	.001	.001	0	%100
54	M29	Z	.002	.002	0	%100
55	M30	X	.001	.001	0	%100
56	M30	Z	.002	.002	0	%100
57	M31	X	.001	.001	0	%100
58	M31	Z	.002	.002	0	%100
59	M32	X	.001	.001	0	%100
60	M32	Z	.002	.002	0	%100
61	M33	X	.001	.001	0	%100
62	M33	Z	.002	.002	0	%100
63	M34	X	.001	.001	0	%100
64	M34	Z	.002	.002	0	%100
65	M35	X	.002	.002	0	%100
66	M35	Z	.004	.004	0	%100
67	M36	X	.001	.001	0	%100
68	M36	Z	.002	.002	0	%100
69	MP6A	X	.003	.003	0	%100
70	MP6A	Z	.005	.005	0	%100
71	MP5A	X	.003	.003	0	%100
72	MP5A	Z	.005	.005	0	%100
73	MP3A	X	.003	.003	0	%100
74	MP3A	Z	.006	.006	0	%100
75	MP1A	X	.003	.003	0	%100
76	MP1A	Z	.005	.005	0	%100
77	MP4A	X	.003	.003	0	%100
78	MP4A	Z	.005	.005	0	%100
79	MP2A	X	.003	.003	0	%100
80	MP2A	Z	.005	.005	0	%100
81	M55	X	.000208	.000208	0	%100
82	M55	Z	.00036	.00036	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	.007	.007	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	.007	.007	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	.000411	.000411	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	.000411	.000411	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	.006	.006	0	%100
11	M8	X	0	0	0	%100
12	M8	Z	.000411	.000411	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	.000411	.000411	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	.006	.006	0	%100
17	OVP	X	0	0	0	%100
18	OVP	Z	.003	.003	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	.003	.003	0	%100





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

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]	
21	M13	X	0	0	0	%100
22	M13	Z	.003	.003	0	%100
23	M14	X	0	0	0	%100
24	M14	Z	.003	.003	0	%100
25	M15	X	0	0	0	%100
26	M15	Z	.000885	.000885	0	%100
27	M16	X	0	0	0	%100
28	M16	Z	.002	.002	0	%100
29	M17	X	0	0	0	%100
30	M17	Z	.000885	.000885	0	%100
31	M18	X	0	0	0	%100
32	M18	Z	.002	.002	0	%100
33	M19	X	0	0	0	%100
34	M19	Z	.001	.001	0	%100
35	M20	X	0	0	0	%100
36	M20	Z	.000885	.000885	0	%100
37	M21	X	0	0	0	%100
38	M21	Z	.000885	.000885	0	%100
39	M22	X	0	0	0	%100
40	M22	Z	.003	.003	0	%100
41	M23	X	0	0	0	%100
42	M23	Z	.003	.003	0	%100
43	M24	X	0	0	0	%100
44	M24	Z	.004	.004	0	%100
45	M25	X	0	0	0	%100
46	M25	Z	.001	.001	0	%100
47	M26	X	0	0	0	%100
48	M26	Z	.000885	.000885	0	%100
49	M27	X	0	0	0	%100
50	M27	Z	.002	.002	0	%100
51	M28	X	0	0	0	%100
52	M28	Z	.000885	.000885	0	%100
53	M29	X	0	0	0	%100
54	M29	Z	.002	.002	0	%100
55	M30	X	0	0	0	%100
56	M30	Z	.001	.001	0	%100
57	M31	X	0	0	0	%100
58	M31	Z	.000885	.000885	0	%100
59	M32	X	0	0	0	%100
60	M32	Z	.000885	.000885	0	%100
61	M33	X	0	0	0	%100
62	M33	Z	.003	.003	0	%100
63	M34	X	0	0	0	%100
64	M34	Z	.003	.003	0	%100
65	M35	X	0	0	0	%100
66	M35	Z	.004	.004	0	%100
67	M36	X	0	0	0	%100
68	M36	Z	.001	.001	0	%100
69	MP6A	X	0	0	0	%100
70	MP6A	Z	.005	.005	0	%100
71	MP5A	X	0	0	0	%100
72	MP5A	Z	.005	.005	0	%100
73	MP3A	X	0	0	0	%100
74	MP3A	Z	.006	.006	0	%100
75	MP1A	X	0	0	0	%100
76	MP1A	Z	.005	.005	0	%100
77	MP4A	X	0	0	0	%100
78	MP4A	Z	.005	.005	0	%100
79	MP2A	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
80	MP2A	Z	.005	.005	0	%100
81	M55	X	0	0	0	%100
82	M55	Z	.001	.001	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-.003	-.003	0	%100
2	M1	Z	.004	.004	0	%100
3	M3	X	-.003	-.003	0	%100
4	M3	Z	.004	.004	0	%100
5	M5	X	-2.6e-5	-2.6e-5	0	%100
6	M5	Z	4.5e-5	4.5e-5	0	%100
7	M6	X	-.000389	-.000389	0	%100
8	M6	Z	.000674	.000674	0	%100
9	M7	X	-.002	-.002	0	%100
10	M7	Z	.004	.004	0	%100
11	M8	X	-2.6e-5	-2.6e-5	0	%100
12	M8	Z	4.5e-5	4.5e-5	0	%100
13	M9	X	-.000389	-.000389	0	%100
14	M9	Z	.000674	.000674	0	%100
15	M10	X	-.002	-.002	0	%100
16	M10	Z	.004	.004	0	%100
17	OVP	X	-.000165	-.000165	0	%100
18	OVP	Z	.000287	.000287	0	%100
19	M12	X	-.002	-.002	0	%100
20	M12	Z	.004	.004	0	%100
21	M13	X	-.000165	-.000165	0	%100
22	M13	Z	.000287	.000287	0	%100
23	M14	X	-.002	-.002	0	%100
24	M14	Z	.004	.004	0	%100
25	M15	X	-.001	-.001	0	%100
26	M15	Z	.002	.002	0	%100
27	M16	X	-.001	-.001	0	%100
28	M16	Z	.002	.002	0	%100
29	M17	X	-.001	-.001	0	%100
30	M17	Z	.002	.002	0	%100
31	M18	X	-.001	-.001	0	%100
32	M18	Z	.002	.002	0	%100
33	M19	X	-.001	-.001	0	%100
34	M19	Z	.002	.002	0	%100
35	M20	X	-.001	-.001	0	%100
36	M20	Z	.002	.002	0	%100
37	M21	X	-.001	-.001	0	%100
38	M21	Z	.002	.002	0	%100
39	M22	X	-.001	-.001	0	%100
40	M22	Z	.002	.002	0	%100
41	M23	X	-.001	-.001	0	%100
42	M23	Z	.002	.002	0	%100
43	M24	X	-.002	-.002	0	%100
44	M24	Z	.004	.004	0	%100
45	M25	X	-.001	-.001	0	%100
46	M25	Z	.002	.002	0	%100
47	M26	X	-.001	-.001	0	%100
48	M26	Z	.002	.002	0	%100
49	M27	X	-.000961	-.000961	0	%100
50	M27	Z	.002	.002	0	%100
51	M28	X	-.001	-.001	0	%100
52	M28	Z	.002	.002	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
53	M29	X	-0.00961	-0.00961	0	%100
54	M29	Z	.002	.002	0	%100
55	M30	X	-0.001	-0.001	0	%100
56	M30	Z	.002	.002	0	%100
57	M31	X	-0.001	-0.001	0	%100
58	M31	Z	.002	.002	0	%100
59	M32	X	-0.001	-0.001	0	%100
60	M32	Z	.002	.002	0	%100
61	M33	X	-0.001	-0.001	0	%100
62	M33	Z	.002	.002	0	%100
63	M34	X	-0.001	-0.001	0	%100
64	M34	Z	.002	.002	0	%100
65	M35	X	-0.002	-0.002	0	%100
66	M35	Z	.004	.004	0	%100
67	M36	X	-0.001	-0.001	0	%100
68	M36	Z	.002	.002	0	%100
69	MP6A	X	-0.003	-0.003	0	%100
70	MP6A	Z	.005	.005	0	%100
71	MP5A	X	-0.003	-0.003	0	%100
72	MP5A	Z	.005	.005	0	%100
73	MP3A	X	-0.003	-0.003	0	%100
74	MP3A	Z	.006	.006	0	%100
75	MP1A	X	-0.003	-0.003	0	%100
76	MP1A	Z	.005	.005	0	%100
77	MP4A	X	-0.003	-0.003	0	%100
78	MP4A	Z	.005	.005	0	%100
79	MP2A	X	-0.003	-0.003	0	%100
80	MP2A	Z	.005	.005	0	%100
81	M55	X	-0.003	-0.003	0	%100
82	M55	Z	.004	.004	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-0.001	-0.001	0	%100
2	M1	Z	.000839	.000839	0	%100
3	M3	X	-0.001	-0.001	0	%100
4	M3	Z	.000839	.000839	0	%100
5	M5	X	-5.2e-5	-5.2e-5	0	%100
6	M5	Z	3e-5	3e-5	0	%100
7	M6	X	-0.00681	-0.00681	0	%100
8	M6	Z	.000393	.000393	0	%100
9	M7	X	-0.001	-0.001	0	%100
10	M7	Z	.000804	.000804	0	%100
11	M8	X	-5.2e-5	-5.2e-5	0	%100
12	M8	Z	3e-5	3e-5	0	%100
13	M9	X	-0.00681	-0.00681	0	%100
14	M9	Z	.000393	.000393	0	%100
15	M10	X	-0.001	-0.001	0	%100
16	M10	Z	.000804	.000804	0	%100
17	OVP	X	-0.0033	-0.0033	0	%100
18	OVP	Z	.000191	.000191	0	%100
19	M12	X	-0.004	-0.004	0	%100
20	M12	Z	.002	.002	0	%100
21	M13	X	-0.0033	-0.0033	0	%100
22	M13	Z	.000191	.000191	0	%100
23	M14	X	-0.004	-0.004	0	%100
24	M14	Z	.002	.002	0	%100
25	M15	X	-0.005	-0.005	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
26	M15	Z	.003	.003	0	%100
27	M16	X	-.002	-.002	0	%100
28	M16	Z	.001	.001	0	%100
29	M17	X	-.005	-.005	0	%100
30	M17	Z	.003	.003	0	%100
31	M18	X	-.002	-.002	0	%100
32	M18	Z	.001	.001	0	%100
33	M19	X	-.005	-.005	0	%100
34	M19	Z	.003	.003	0	%100
35	M20	X	-.005	-.005	0	%100
36	M20	Z	.003	.003	0	%100
37	M21	X	-.005	-.005	0	%100
38	M21	Z	.003	.003	0	%100
39	M22	X	-.002	-.002	0	%100
40	M22	Z	.001	.001	0	%100
41	M23	X	-.002	-.002	0	%100
42	M23	Z	.001	.001	0	%100
43	M24	X	-.004	-.004	0	%100
44	M24	Z	.002	.002	0	%100
45	M25	X	-.005	-.005	0	%100
46	M25	Z	.003	.003	0	%100
47	M26	X	-.005	-.005	0	%100
48	M26	Z	.003	.003	0	%100
49	M27	X	-.002	-.002	0	%100
50	M27	Z	.000965	.000965	0	%100
51	M28	X	-.005	-.005	0	%100
52	M28	Z	.003	.003	0	%100
53	M29	X	-.002	-.002	0	%100
54	M29	Z	.000965	.000965	0	%100
55	M30	X	-.005	-.005	0	%100
56	M30	Z	.003	.003	0	%100
57	M31	X	-.005	-.005	0	%100
58	M31	Z	.003	.003	0	%100
59	M32	X	-.005	-.005	0	%100
60	M32	Z	.003	.003	0	%100
61	M33	X	-.002	-.002	0	%100
62	M33	Z	.001	.001	0	%100
63	M34	X	-.002	-.002	0	%100
64	M34	Z	.001	.001	0	%100
65	M35	X	-.004	-.004	0	%100
66	M35	Z	.002	.002	0	%100
67	M36	X	-.005	-.005	0	%100
68	M36	Z	.003	.003	0	%100
69	MP6A	X	-.005	-.005	0	%100
70	MP6A	Z	.003	.003	0	%100
71	MP5A	X	-.005	-.005	0	%100
72	MP5A	Z	.003	.003	0	%100
73	MP3A	X	-.006	-.006	0	%100
74	MP3A	Z	.003	.003	0	%100
75	MP1A	X	-.005	-.005	0	%100
76	MP1A	Z	.003	.003	0	%100
77	MP4A	X	-.005	-.005	0	%100
78	MP4A	Z	.003	.003	0	%100
79	MP2A	X	-.005	-.005	0	%100
80	MP2A	Z	.003	.003	0	%100
81	M55	X	-.007	-.007	0	%100
82	M55	Z	.004	.004	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	0	0	0	%100
5	M5	X	-0.000427	-0.000427	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	-0.000427	-0.000427	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M8	X	-0.000427	-0.000427	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	-0.000427	-0.000427	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	0	0	0	%100
17	OVP	X	-0.003	-0.003	0	%100
18	OVP	Z	0	0	0	%100
19	M12	X	-0.003	-0.003	0	%100
20	M12	Z	0	0	0	%100
21	M13	X	-0.003	-0.003	0	%100
22	M13	Z	0	0	0	%100
23	M14	X	-0.003	-0.003	0	%100
24	M14	Z	0	0	0	%100
25	M15	X	-0.007	-0.007	0	%100
26	M15	Z	0	0	0	%100
27	M16	X	-0.002	-0.002	0	%100
28	M16	Z	0	0	0	%100
29	M17	X	-0.007	-0.007	0	%100
30	M17	Z	0	0	0	%100
31	M18	X	-0.002	-0.002	0	%100
32	M18	Z	0	0	0	%100
33	M19	X	-0.007	-0.007	0	%100
34	M19	Z	0	0	0	%100
35	M20	X	-0.007	-0.007	0	%100
36	M20	Z	0	0	0	%100
37	M21	X	-0.007	-0.007	0	%100
38	M21	Z	0	0	0	%100
39	M22	X	-0.003	-0.003	0	%100
40	M22	Z	0	0	0	%100
41	M23	X	-0.003	-0.003	0	%100
42	M23	Z	0	0	0	%100
43	M24	X	-0.004	-0.004	0	%100
44	M24	Z	0	0	0	%100
45	M25	X	-0.007	-0.007	0	%100
46	M25	Z	0	0	0	%100
47	M26	X	-0.007	-0.007	0	%100
48	M26	Z	0	0	0	%100
49	M27	X	-0.002	-0.002	0	%100
50	M27	Z	0	0	0	%100
51	M28	X	-0.007	-0.007	0	%100
52	M28	Z	0	0	0	%100
53	M29	X	-0.002	-0.002	0	%100
54	M29	Z	0	0	0	%100
55	M30	X	-0.007	-0.007	0	%100
56	M30	Z	0	0	0	%100
57	M31	X	-0.007	-0.007	0	%100
58	M31	Z	0	0	0	%100
59	M32	X	-0.007	-0.007	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
60	M32	Z	0	0	0	%100
61	M33	X	-.003	-.003	0	%100
62	M33	Z	0	0	0	%100
63	M34	X	-.003	-.003	0	%100
64	M34	Z	0	0	0	%100
65	M35	X	-.004	-.004	0	%100
66	M35	Z	0	0	0	%100
67	M36	X	-.007	-.007	0	%100
68	M36	Z	0	0	0	%100
69	MP6A	X	-.005	-.005	0	%100
70	MP6A	Z	0	0	0	%100
71	MP5A	X	-.005	-.005	0	%100
72	MP5A	Z	0	0	0	%100
73	MP3A	X	-.006	-.006	0	%100
74	MP3A	Z	0	0	0	%100
75	MP1A	X	-.005	-.005	0	%100
76	MP1A	Z	0	0	0	%100
77	MP4A	X	-.005	-.005	0	%100
78	MP4A	Z	0	0	0	%100
79	MP2A	X	-.005	-.005	0	%100
80	MP2A	Z	0	0	0	%100
81	M55	X	-.007	-.007	0	%100
82	M55	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-.001	-.001	0	%100
2	M1	Z	-.000839	-.000839	0	%100
3	M3	X	-.001	-.001	0	%100
4	M3	Z	-.000839	-.000839	0	%100
5	M5	X	-.000681	-.000681	0	%100
6	M5	Z	-.000393	-.000393	0	%100
7	M6	X	-5.2e-5	-5.2e-5	0	%100
8	M6	Z	-3e-5	-3e-5	0	%100
9	M7	X	-.001	-.001	0	%100
10	M7	Z	-.000804	-.000804	0	%100
11	M8	X	-.000681	-.000681	0	%100
12	M8	Z	-.000393	-.000393	0	%100
13	M9	X	-5.2e-5	-5.2e-5	0	%100
14	M9	Z	-3e-5	-3e-5	0	%100
15	M10	X	-.001	-.001	0	%100
16	M10	Z	-.000804	-.000804	0	%100
17	OVP	X	-.004	-.004	0	%100
18	OVP	Z	-.002	-.002	0	%100
19	M12	X	-.00033	-.00033	0	%100
20	M12	Z	-.000191	-.000191	0	%100
21	M13	X	-.004	-.004	0	%100
22	M13	Z	-.002	-.002	0	%100
23	M14	X	-.00033	-.00033	0	%100
24	M14	Z	-.000191	-.000191	0	%100
25	M15	X	-.005	-.005	0	%100
26	M15	Z	-.003	-.003	0	%100
27	M16	X	-.002	-.002	0	%100
28	M16	Z	-.000965	-.000965	0	%100
29	M17	X	-.005	-.005	0	%100
30	M17	Z	-.003	-.003	0	%100
31	M18	X	-.002	-.002	0	%100
32	M18	Z	-.000965	-.000965	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
33	M19	X	-0.005	-0.005	0	%100
34	M19	Z	-0.003	-0.003	0	%100
35	M20	X	-0.005	-0.005	0	%100
36	M20	Z	-0.003	-0.003	0	%100
37	M21	X	-0.005	-0.005	0	%100
38	M21	Z	-0.003	-0.003	0	%100
39	M22	X	-0.002	-0.002	0	%100
40	M22	Z	-0.001	-0.001	0	%100
41	M23	X	-0.002	-0.002	0	%100
42	M23	Z	-0.001	-0.001	0	%100
43	M24	X	-0.004	-0.004	0	%100
44	M24	Z	-0.002	-0.002	0	%100
45	M25	X	-0.005	-0.005	0	%100
46	M25	Z	-0.003	-0.003	0	%100
47	M26	X	-0.005	-0.005	0	%100
48	M26	Z	-0.003	-0.003	0	%100
49	M27	X	-0.002	-0.002	0	%100
50	M27	Z	-0.001	-0.001	0	%100
51	M28	X	-0.005	-0.005	0	%100
52	M28	Z	-0.003	-0.003	0	%100
53	M29	X	-0.002	-0.002	0	%100
54	M29	Z	-0.001	-0.001	0	%100
55	M30	X	-0.005	-0.005	0	%100
56	M30	Z	-0.003	-0.003	0	%100
57	M31	X	-0.005	-0.005	0	%100
58	M31	Z	-0.003	-0.003	0	%100
59	M32	X	-0.005	-0.005	0	%100
60	M32	Z	-0.003	-0.003	0	%100
61	M33	X	-0.002	-0.002	0	%100
62	M33	Z	-0.001	-0.001	0	%100
63	M34	X	-0.002	-0.002	0	%100
64	M34	Z	-0.001	-0.001	0	%100
65	M35	X	-0.004	-0.004	0	%100
66	M35	Z	-0.002	-0.002	0	%100
67	M36	X	-0.005	-0.005	0	%100
68	M36	Z	-0.003	-0.003	0	%100
69	MP6A	X	-0.005	-0.005	0	%100
70	MP6A	Z	-0.003	-0.003	0	%100
71	MP5A	X	-0.005	-0.005	0	%100
72	MP5A	Z	-0.003	-0.003	0	%100
73	MP3A	X	-0.006	-0.006	0	%100
74	MP3A	Z	-0.003	-0.003	0	%100
75	MP1A	X	-0.005	-0.005	0	%100
76	MP1A	Z	-0.003	-0.003	0	%100
77	MP4A	X	-0.005	-0.005	0	%100
78	MP4A	Z	-0.003	-0.003	0	%100
79	MP2A	X	-0.005	-0.005	0	%100
80	MP2A	Z	-0.003	-0.003	0	%100
81	M55	X	-0.003	-0.003	0	%100
82	M55	Z	-0.001	-0.001	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-0.003	-0.003	0	%100
2	M1	Z	-0.004	-0.004	0	%100
3	M3	X	-0.003	-0.003	0	%100
4	M3	Z	-0.004	-0.004	0	%100
5	M5	X	-0.000389	-0.000389	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft...]	Start Location[ft,%]	End Location[ft,%]
6	M5	Z	-0.00674	-0.00674	0 %100
7	M6	X	-2.6e-5	-2.6e-5	0 %100
8	M6	Z	-4.5e-5	-4.5e-5	0 %100
9	M7	X	-0.002	-0.002	0 %100
10	M7	Z	-0.004	-0.004	0 %100
11	M8	X	-0.00389	-0.00389	0 %100
12	M8	Z	-0.00674	-0.00674	0 %100
13	M9	X	-2.6e-5	-2.6e-5	0 %100
14	M9	Z	-4.5e-5	-4.5e-5	0 %100
15	M10	X	-0.002	-0.002	0 %100
16	M10	Z	-0.004	-0.004	0 %100
17	OVP	X	-0.002	-0.002	0 %100
18	OVP	Z	-0.004	-0.004	0 %100
19	M12	X	-0.00165	-0.00165	0 %100
20	M12	Z	-0.00287	-0.00287	0 %100
21	M13	X	-0.002	-0.002	0 %100
22	M13	Z	-0.004	-0.004	0 %100
23	M14	X	-0.00165	-0.00165	0 %100
24	M14	Z	-0.00287	-0.00287	0 %100
25	M15	X	-0.001	-0.001	0 %100
26	M15	Z	-0.002	-0.002	0 %100
27	M16	X	-0.00961	-0.00961	0 %100
28	M16	Z	-0.002	-0.002	0 %100
29	M17	X	-0.001	-0.001	0 %100
30	M17	Z	-0.002	-0.002	0 %100
31	M18	X	-0.00961	-0.00961	0 %100
32	M18	Z	-0.002	-0.002	0 %100
33	M19	X	-0.001	-0.001	0 %100
34	M19	Z	-0.002	-0.002	0 %100
35	M20	X	-0.001	-0.001	0 %100
36	M20	Z	-0.002	-0.002	0 %100
37	M21	X	-0.001	-0.001	0 %100
38	M21	Z	-0.002	-0.002	0 %100
39	M22	X	-0.001	-0.001	0 %100
40	M22	Z	-0.002	-0.002	0 %100
41	M23	X	-0.001	-0.001	0 %100
42	M23	Z	-0.002	-0.002	0 %100
43	M24	X	-0.002	-0.002	0 %100
44	M24	Z	-0.004	-0.004	0 %100
45	M25	X	-0.001	-0.001	0 %100
46	M25	Z	-0.002	-0.002	0 %100
47	M26	X	-0.001	-0.001	0 %100
48	M26	Z	-0.002	-0.002	0 %100
49	M27	X	-0.001	-0.001	0 %100
50	M27	Z	-0.002	-0.002	0 %100
51	M28	X	-0.001	-0.001	0 %100
52	M28	Z	-0.002	-0.002	0 %100
53	M29	X	-0.001	-0.001	0 %100
54	M29	Z	-0.002	-0.002	0 %100
55	M30	X	-0.001	-0.001	0 %100
56	M30	Z	-0.002	-0.002	0 %100
57	M31	X	-0.001	-0.001	0 %100
58	M31	Z	-0.002	-0.002	0 %100
59	M32	X	-0.001	-0.001	0 %100
60	M32	Z	-0.002	-0.002	0 %100
61	M33	X	-0.001	-0.001	0 %100
62	M33	Z	-0.002	-0.002	0 %100
63	M34	X	-0.001	-0.001	0 %100
64	M34	Z	-0.002	-0.002	0 %100





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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
65	M35	X	-0.02	-0.02	0 %100
66	M35	Z	-0.04	-0.04	0 %100
67	M36	X	-0.01	-0.01	0 %100
68	M36	Z	-0.02	-0.02	0 %100
69	MP6A	X	-0.03	-0.03	0 %100
70	MP6A	Z	-0.05	-0.05	0 %100
71	MP5A	X	-0.03	-0.03	0 %100
72	MP5A	Z	-0.05	-0.05	0 %100
73	MP3A	X	-0.03	-0.03	0 %100
74	MP3A	Z	-0.06	-0.06	0 %100
75	MP1A	X	-0.03	-0.03	0 %100
76	MP1A	Z	-0.05	-0.05	0 %100
77	MP4A	X	-0.03	-0.03	0 %100
78	MP4A	Z	-0.05	-0.05	0 %100
79	MP2A	X	-0.03	-0.03	0 %100
80	MP2A	Z	-0.05	-0.05	0 %100
81	M55	X	-0.00208	-0.00208	0 %100
82	M55	Z	-0.00036	-0.00036	0 %100

**Member Area Loads**

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

**Envelope Joint Reactions**

Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC		
1	N4	max	817.759	10	1347.308	22	244.956	2	-1.26	67	0	75	.107	29
2		min	-1573.136	28	411.969	67	-3406.247	20	-4.09	22	0	1	-0.49	49
3	N65	max	1572.471	30	1201.787	22	3205.109	14	-1.14	67	0	75	.102	29
4		min	-632.224	49	374.903	67	467.642	8	-3.71	21	0	1	-0.47	49
5	N84	max	539.17	10	300.202	5	1192.26	11	0	75	0	75	0	75
6		min	-541.325	4	-228.289	11	-1192.032	5	0	1	0	1	0	1
7	Totals:	max	1511.752	10	2542.265	17	2157.404	1						
8		min	-1511.752	4	830.16	73	-2157.405	7						

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

Member	Shape	Code C...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [l...	phi*Pnt [lb]	phi*Mn y...	phi*Mn z...	Cb	Egn	
1	M1	L4X3X6	.000	.281	18	.000	.281	z	24	80199.017	80676	2.686	7.063	1...	H2-1
2	M3	L4X3X6	.000	.281	18	.000	.281	z	24	80199.017	80676	2.686	7.063	1...	H2-1
3	M5	PL3/8X3	.494	0	21	.075	.25	y	29	34985.705	36450	.284	2.279	1...	H1-1b
4	M6	PL3/8X3	.634	0	29	.093	0	z	29	34985.705	36450	.284	2.279	1...	H1-1b
5	M7	PIPE 2.5	.213	3.125	7	.067	11.875	30	10110.272	50715	3.596	3.596	1...	H1-1b	
6	M8	PL3/8X3	.446	0	21	.079	0	y	30	34985.705	36450	.284	2.279	1...	H1-1b
7	M9	PL3/8X3	.588	0	27	.096	0	z	27	34985.705	36450	.284	2.279	1...	H1-1b
8	M10	PIPE 2.5	.167	11.719	30	.079	11.875	29	10110.272	50715	3.596	3.596	2...	H1-1b	
9	OVP	PIPE 2.0	.232	.495	21	.116	5.381	11	21054.34	32130	1.872	1.872	2...	H1-1b	
10	M12	PIPE 2.0	.281	.495	29	.093	0	29	21054.34	32130	1.872	1.872	2...	H1-1b	
11	M13	PIPE 2.0	.238	.557	23	.144	5.381	5	21054.34	32130	1.872	1.872	2...	H1-1b	
12	M14	PIPE 2.0	.303	.557	27	.088	0	27	21054.34	32130	1.872	1.872	2...	H1-1b	
13	M15	PL3/8X3	.037	0	44	.045	0	y	29	36078.278	36450	.284	2.279	1	H1-1b
14	M16	1.5" w 0.06"	.281	2.049	26	.012	0	3	5179.054	8536.5	.325	.325	1	H1-1a	
15	M17	PL3/8X3	.058	0	42	.005	0	y	20	36078.278	36450	.284	2.279	1	H1-1b
16	M18	1.5" w 0.06"	.230	2.049	26	.010	4.185	9	5179.054	8536.5	.325	.325	1	H1-1a	
17	M19	PL3/8X3	.045	0	39	.012	0	y	12	33887.6	36450	.284	2.265	1	H1-1b
18	M20	PL3/8X3	.036	.125	39	.045	.125	y	29	36078.278	36450	.284	2.279	1	H1-1b



Company : Colliers Engineering & Design  
 Designer :  
 Job Number :  
 Model Name : 5000128587-VZW\_MT\_LOT\_SectorB\_H

July 21, 2023  
 10:30 AM  
 Checked By: \_\_\_\_\_

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

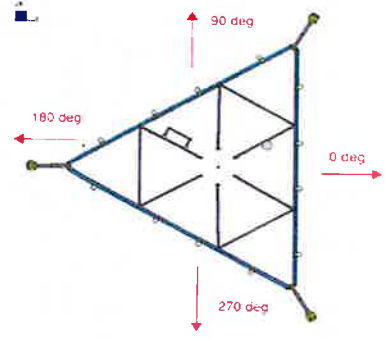
Member	Shape	Code	C...	Loc(ft)	LC	Shear	...	Loc(ft)	Dir	LC	phi*Pnc [l	...	phi*Pnt [lb]	phi*Mn y-	...	phi*Mn z-	Cb	Eqn
19	M21	PL3/8X3	.057	.125	39	.005	.125	y	20	36078.278	36450	.284	2.279	1	H1-1b			
20	M22	1.5" w 0.06"	.145	3.167	29	.033	0		27	6412.349	8536.5	.325	.325	1	H1-1b*			
21	M23	1.5" w 0.06"	.281	0	29	.006	0		20	6412.349	8536.5	.325	.325	1	H1-1a			
22	M24	PIPE 2.0	.028	0	27	.002	0		12	29344.85	32130	1.872	1.872	1	H1-1b*			
23	M25	PL3/8X3	.048	.333	42	.012	.333	y	12	33887.6	36450	.284	2.265	1	H1-1b			
24	M26	PL3/8X3	.026	0	6	.043	0	y	29	36078.278	36450	.284	2.279	1	H1-1b			
25	M27	1.5" w 0.06"	.244	2.049	23	.017	0		5	5179.054	8536.5	.325	.325	1	H1-1a			
26	M28	PL3/8X3	.037	.125	22	.005	0	y	11	36078.278	36450	.284	2.279	1	H1-1b*			
27	M29	1.5" w 0.06"	.103	2.092	24	.017	0		6	5179.054	8536.5	.325	.325	1	H1-1b			
28	M30	PL3/8X3	.507	0	11	.034	.333	z	11	33887.6	36450	.284	2.279	1	H1-1b			
29	M31	PL3/8X3	.028	.125	11	.043	.125	y	29	36078.278	36450	.284	2.279	1	H1-1b			
30	M32	PL3/8X3	.053	.125	11	.005	.125	y	11	36078.278	36450	.284	2.279	1	H1-1b			
31	M33	1.5" w 0.06"	.119	3.167	22	.031	3.167		29	6412.349	8536.5	.325	.325	1	H1-1b*			
32	M34	1.5" w 0.06"	.226	3.167	22	.008	3.167		11	6412.349	8536.5	.325	.325	1	H1-1a			
33	M35	PIPE 2.0	.518	1.146	11	.077	1.146		11	29344.85	32130	1.872	1.872	1	H1-1b			
34	M36	PL3/8X3	.411	.333	11	.026	0	z	11	33887.6	36450	.284	2.279	1	H1-1b			
35	MP6A	PIPE 2.0	.115	2.167	44	.019	5.583		26	14916.096	32130	1.872	1.872	4	H1-1b			
36	MP5A	PIPE 2.0	.211	5.583	49	.060	5.583		5	14916.096	32130	1.872	1.872	4	H1-1b			
37	MP3A	PIPE 2.5	.107	2.167	7	.047	5.583		5	30038.461	50715	3.596	3.596	4	H1-1b			
38	MP1A	PIPE 2.0	.232	5.583	33	.030	5.583		32	14916.096	32130	1.872	1.872	4	H1-1b			
39	MP4A	PIPE 2.0	.124	5.583	47	.027	2.167		8	14916.096	32130	1.872	1.872	4	H1-1b			
40	MP2A	PIPE 2.0	.247	4.74	35	.043	4.74		32	23808.54	32130	1.872	1.872	2	H1-1b			
41	M55	PIPE 3.0	.044	4.878	9	.004	0		22	39991.26	65205	5.749	5.749	1	H1-1b			

**I. Mount-to-Tower Connection Check**

Custom Orientation Required

Yes

Nodes (labeled per Risa)	Orientation (per graphic of typical platform)
N4	0
N65	0



Tower Connection Bolt Checks

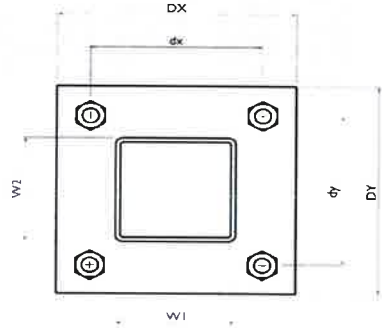
Yes

Bolt Orientation

Parallel

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

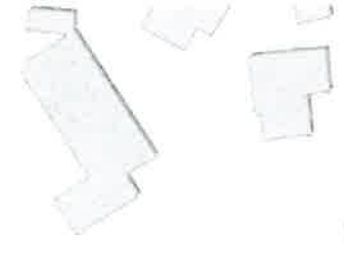
4
3.5
2
A36
0.5
2.1
0.3
6.4
3.8
32.3%



Tower Connection Baseplate Checks

No

# **ATTACHMENT 4**



70



1287



332 ft

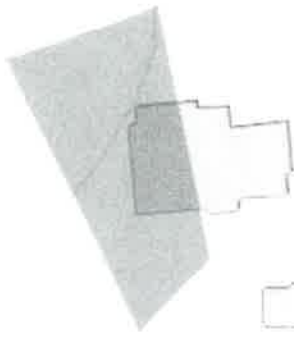
1289

1290

DURHAM RD

70

688



360 ft

701



575



OPENING HILL RD



70



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### 864 OPENING HILL RD

[Sales](#)   [Print](#)   [Map It](#)

**Location** 864 OPENING HILL RD      **MBLU** 134/17111  
**Unique ID#** 00665700      **Owner** NORTH MADISON VOLUNTEER FIRE COMPANY INC  
**Assessment** \$938,700      **Appraisal** \$1,341,000  
**PID** 7027      **Building Count** 1

[Dev. Map](#)

#### Current Value

Appraisal					
Valuation Year	Building	Extra Features	Outbuildings	Land	Total
2021	\$1,211,400	\$0	\$7,000	\$122,600	\$1,341,000
Assessment					
Valuation Year	Building	Extra Features	Outbuildings	Land	Total
2021	\$848,000	\$0	\$4,900	\$85,800	\$938,700

#### Owner of Record

**Owner** NORTH MADISON VOLUNTEER FIRE COMPANY INC      **Sale Price** \$0  
**Co-Owner**      **Book & Page** 0044/0130  
**Care Of**      **Sale Date**

# **ATTACHMENT 5**

**Certificate of Mailing — Firm**



Name and Address of Sender

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

TOTAL NO. of Pieces Listed by Sender

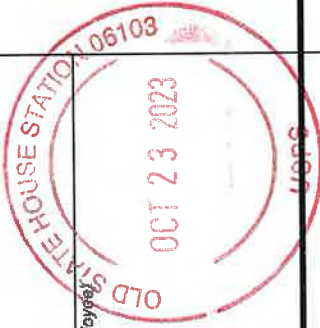
3

TOTAL NO. of Pieces Received at Post Office™

3

Affix Stamp Here  
 Postmark with Date of Receipt.

neopost  
 10/23/2023  
**US POSTAGE \$003.19**  
 ZIP 06103  
 041L12203937



Postmaster, per (name of receiving employee)

*[Handwritten Signature]*

USPS® Tracking Number  
 Firm-specific Identifier

Address  
 (Name, Street, City, State, and ZIP Code™)

1. Peggy Lyon, First Selectwoman  
 Town of Madison  
 8 Campus Drive  
 Madison, CT 06443

2. Erin Mannix, Town Planner  
 Town of Madison  
 8 Campus Drive  
 Madison, CT 06443

3. North Madison Volunteer Fire Company, Inc.  
 864 Opening Hill Road  
 Madison, CT 06443

4.

5.

6.

Postage

Fee

Special Handling

Parcel/Airift