City of Puyallup
Building
ACCEPTED
JMontgomery
03/13/2023
10:27:06 AM

PRCTI20230195

THE APPROVED CONSTRUCTION PLANS, DOCUMENTS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.

FULL SIZED LEDGIBLE COLOR PLANS ARE REQUIRED TO BE PROVIDED BY THE PERMITEE ON SITE FOR INSPECTION

October 28, 2022

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

Subject: **Mount Analysis**

Carrier Designation:	**Carrier:**	AT&T
	Site Name:	Downtown Puyallup
	Site Number:	TA48
	FA Number:	10102328
	Initiative:	5G NR 1SR CBAND
	PACE Number:	MRWOR059704
Engineering Firm Designation:	**MNS Project Number:**	33683-SAR1
Site Data:	**110 9Th Avenue Southwest** **Puyallup, Pierce County, WA 98371** **Latitude 47.1847°, Longitude -122.2961°** **65.5 ft Stadium**	

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 2018 International Building Code (IBC) 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:

Building Structure	**51%**	**Sufficient***

***Structure has sufficient capacity provided the modifications from MasTec Project No. 33683-MMD1 are installed as recommended.**

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: David Powers

Reviewed By:

Raphael Mohamed, PE, Peng
Senior Director of Engineering
WA PE License No. 42214

RAPHAEL MOHAMED
STATE OF WASHINGTON
42214
REGISTERED
PROFESSIONAL ENGINEER

Raphael Mohamed, PE, PENG

Digitally signed by Raphael Mohamed, PE, PENG
DN: C=US, E=raphael.mohamed@mastec.com, O=MasTec Network Solutions, OU=MasTec Engineering, CN="Raphael Mohamed, PE, PENG"
Date: 2022.10.31 10:24:44-04'00'

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning
Engineering | Public Works
Fire | Traffic

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EXECUTIVE SUMMARY

The purpose of this analysis is to determine the acceptability of AT&T'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
MasTec	Mount Modification Analysis	Project Number: 33683-MMD1	10/27/2022
Morrison Hershfield	Structural Calculations	Project Number: GED-445R1 / 1801115	1/15/2018
TRK Engineering	Design Calculations	Site Number: TA3058 (TA48) DT PUYALLUP	11/11/2005
MasTec	Construction Drawings	Site Number: 10102328	5/13/2022
AT&T	RFDS	RFDS Name: STTLWATA48	4/25/2022

Table 2: Design Basis

Codes and Standards	
Local Building Code	*2018 International Building Code*
TIA Standard	*ANSI/TIA-222-H*
Wind Parameters	
Ultimate Wind Speed	98 mph
Nominal Wind Speed with Ice	30 mph
Radial Ice Thickness	1 in
Operational Wind Speed	30 mph
Exposure Category	C
Risk Category	II
Topographic Category	1
Seismic Parameters	
S_S	1.271
S_1	0.438

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

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

Based on our evaluation, the proposed loading change will result in a negligible increase in wind area and weight in comparison to the original design loads on the building. Additional gravity loads resulting from the installation will be less than 5% and additional lateral loads resulting from the installation will be less than 10%. In accordance with Section 1103.1 and Section 1103.2 of the *2018 International Existing Building Code*, the structure will not require alterations and therefore the structure can be considered **sufficient** to support the existing and proposed loading as described in **Table 3.**

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

Recommendations:

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

2) In order for the results of this analysis to be valid, the modifications from MasTec project No. 33683-MMD1 must be installed as recommended.

CARRIER LOADING

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

Table 3: Appurtenance Loading

Final Carrier Loading:

Antenna Elevation (ft)	Qty	Description	Carrier	Mount Elevation (ft)	Mount Type	Notes
63	3	Nokia AEQK	AT&T	60	Pipe Mounts	--
60	3	Cellmax CMA-UBTULBULBHH-6517-17-21-21				
	9	DC2-48-60-0-9E				
	3	AirScale Dual RRH 4T4R B12/14 320W AHLBA				
	3	B25 RRH4X30-4R				
	3	Kathrein 80010992				
	3	FC12-PC6-10E				
	3	AirScale RRH 4T4R B5 160W AHCA				
	3	B66A RRH4X45-4R				
	3	RRH4x25-WCS-4R				
	1	DC9-48-60-24-8C-EV				
59.5	3	Nokia AEQU				

ANALYSIS RESULTS

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

Capacity percentages below 105% are considered acceptable for structure components.

Table 4: Structural Components (Alpha Sector)

Structural Component	Capacity Percentage	Result	Notes
Face Horizontal	42%	Pass	1
Verticals	31%	Pass	1
Diagonal	16%	Pass	1
Beams	7%	Pass	1
Mount Pipe	51%	Pass	1
Beam 2	15%	Pass	1
Cross Angle	38%	Pass	1
Low Beam Angle	27%	Pass	1
Large Vertical	2%	Pass	1
New Horizontal	12%	Pass	1

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

ASSUMPTIONS, LIMITATIONS AND DISCLAIMER

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

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

APPENDIX 1: LOADING PARAMETERS

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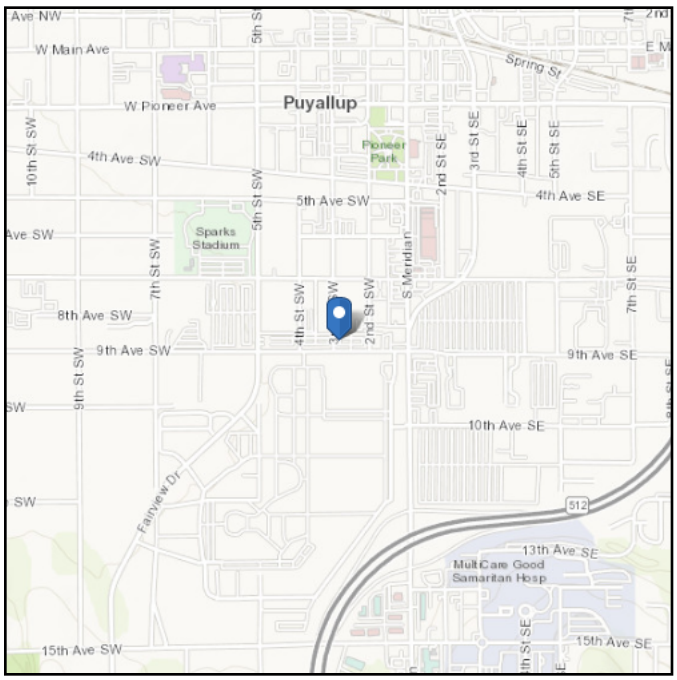
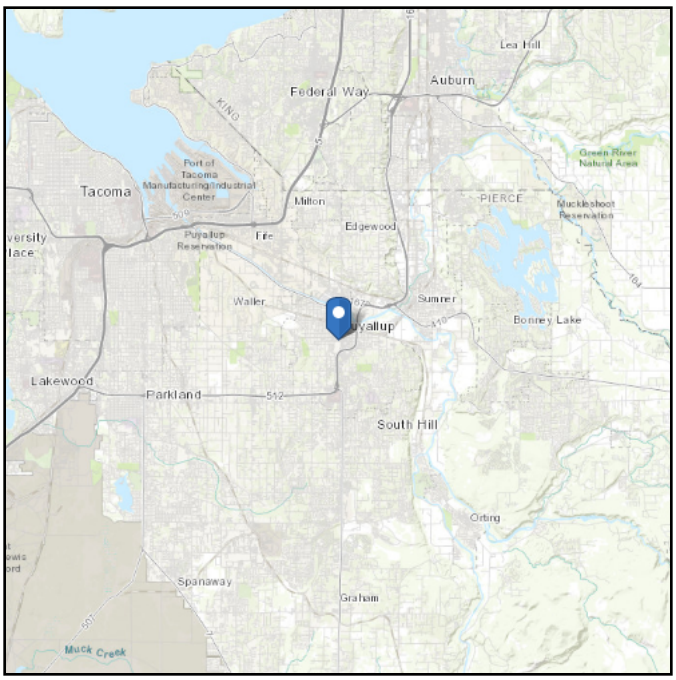
ASCE 7 Hazards Report

Address:
No Address at This Location

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

Elevation: 41.8 ft (NAVD 88)
Latitude: 47.18472
Longitude: -122.29611





Wind

Results:

Wind Speed	98 Vmph
10-year MRI	67 Vmph
25-year MRI	73 Vmph
50-year MRI	78 Vmph
100-year MRI	83 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed: Thu Oct 27 2022

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

Site is not in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2.

ASCE
AMERICAN SOCIETY OF CIVIL ENGINEERS

Seismic

Site Soil Class: D - Default (see Section 11.4.3)

Results:

S_S :	1.271	S_{D1} :	N/A
S_1 :	0.438	T_L :	6
F_a :	1.2	PGA :	0.5
F_v :	N/A	PGA_M :	0.6
S_{MS} :	1.525	F_{PGA} :	1.2
S_{M1} :	N/A	I_e :	1
S_{DS} :	1.017	C_v :	1.354

Ground motion hazard analysis may be required. See ASCE/SEI 7-16 Section 11.4.8.

Data Accessed: Thu Oct 27 2022

Date Source: USGS Seismic Design Maps

Ice

Results:

Ice Thickness:	1.00 in.
Concurrent Temperature:	25 F
Gust Speed	30 mph
Data Source:	Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8
Date Accessed:	Thu Oct 27 2022

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.

Snow

Results:

Ground Snow Load, p_g:	18 lb/ft^2
Elevation:	41.8 ft
Data Source:	
Date Accessed:	Thu Oct 27 2022

Statutory requirements of the Authority Having Jurisdiction are not included.

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

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APPENDIX 2: LOADING CALCULATIONS (ALPHA SECTOR)

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MasTec Network Solutions

Mount Analysis Tool (v4.3.7)

Site Name	DOWNTOWN PUYALLUP		
Site ID/FA Number	10102328	Rooftop?	Yes
MNS Project Number	33683	Existing Site Audit?	Yes
Code	H	Risk Category	II

Legend
Input
Calculated
Notes

Maximum Capacity		
Controlling Capacity	50.6%	PASS

Analysis Parameters		
Mount Height	60	ft
Exposure Category	C	(B,C, or D)
Ultimate Wind Speed	98	mph
Ice Wind Speed	30	mph
Design Ice Thickness, t_i	1	in
Maintenance Wind Speed	30	mph
Run Earthquake Analysis?	Yes	
Ground Elevation	41.8	ft, Google Earth
Tower/Rooftop Height	65.5	ft
S_1	0.438	USGS
S_{DS}	1.017	2.7.5
Vertical Seismic Loads, E_v	0.203	2.7.6
Seismic Response Coefficient, C_s	0.339	2.7.7.1.1
C_s * Amplification Factor	0.407	2.7.8.1

Wind Parameters					
Gust Effect Factor, G_h	1.000	2.6.9	K_s	1.000	2.6.7
K_Z	1.137	2.6.5.2	K_e	0.998	2.6.8
K_{Zt}	1.000	2.6.6	K_a	0.900	16.6
K_d	0.950	Table 2-2	*Note for Rooftop Structures greater than 50', unobstructed for 90 deg and protruding 50' above surrounding buildings Ks must be calculated.		
q_z	26.507	psf, 2.6.11.6			
C/D	104.478	Table 2-9			
t_{iz}	1.062	in, 2.6.10			
q_{iz}	2.236	psf, 2.6.9.6	I, Ice	1.000	Table 2-3
C/D_{iz}	31.983	Table 2-9	I, EQ	1.000	Table 2-3
$q_{Maintenance}$	2.239	psf, 2.6.9.6	$K_{es\ (Wind)}$	0.950	Table S-1
$C/D_{Maintenance}$	31.983	Table 2-9	$K_{es\ (ice)}$	0.850	Table S-1
Ice Dead, Grating	0.008422081	ksf			
Dead, Grating	0.012	ksf			

Pipe Mounts (Orientation Drawn Top-Down)			
Risa 3D Label	Elevation (ft)	Length (in)	Diameter (in)
MP1	60	120	2.375
MP2	60	120	2.375
MP3	60	120	2.375
MP3B	60	120	2.375
MP4	60	120	2.375
MP4B	60	120	2.375
MP5	60	120	2.375

Appurtenances					
Model	Type	Height (in)	Width (in)	Depth (in)	Weight (lbs)
Cellemax CMA-UBTULBULBHH-6517-17-2	Antenna	96.5	27.2	7.7	115
Kathrein 80010992K	Antenna	105.2	20	6.9	144.3
Nokia AEQK	Antenna	29.53	17.72	9.53	99.21
Nokia AEQU	Antenna	29.5	17.7	9.5	99.21
Raycap DC2-48-60-0-9E	RRU, TMA, Etc.	10.25	10.75	6.27	16
Nokia Airscale Dual RRH 4T4R B12/14	RRU, TMA, Etc.	28.7	15.4	9.5	46
Alcatel Lucent TME B25 RRH4X30-4F	RRU, TMA, Etc.	21.4	12	7.2	51
Raycap FC12-PC6-10E	RRU, TMA, Etc.	15.5	16.25	6.64	20.35
Nokia Airscale RRH 4T4R B5 160W AH(	RRU, TMA, Etc.	13.27	11.6	6.5	36.8
Alcatel Lucent TME B66A RRH4X45-4	RRU, TMA, Etc.	25.8	11.8	7.2	56.8
Alcatel Lucent TME RRH4X25-WCS-4I	RRU, TMA, Etc.	34.7	13.2	11.3	91

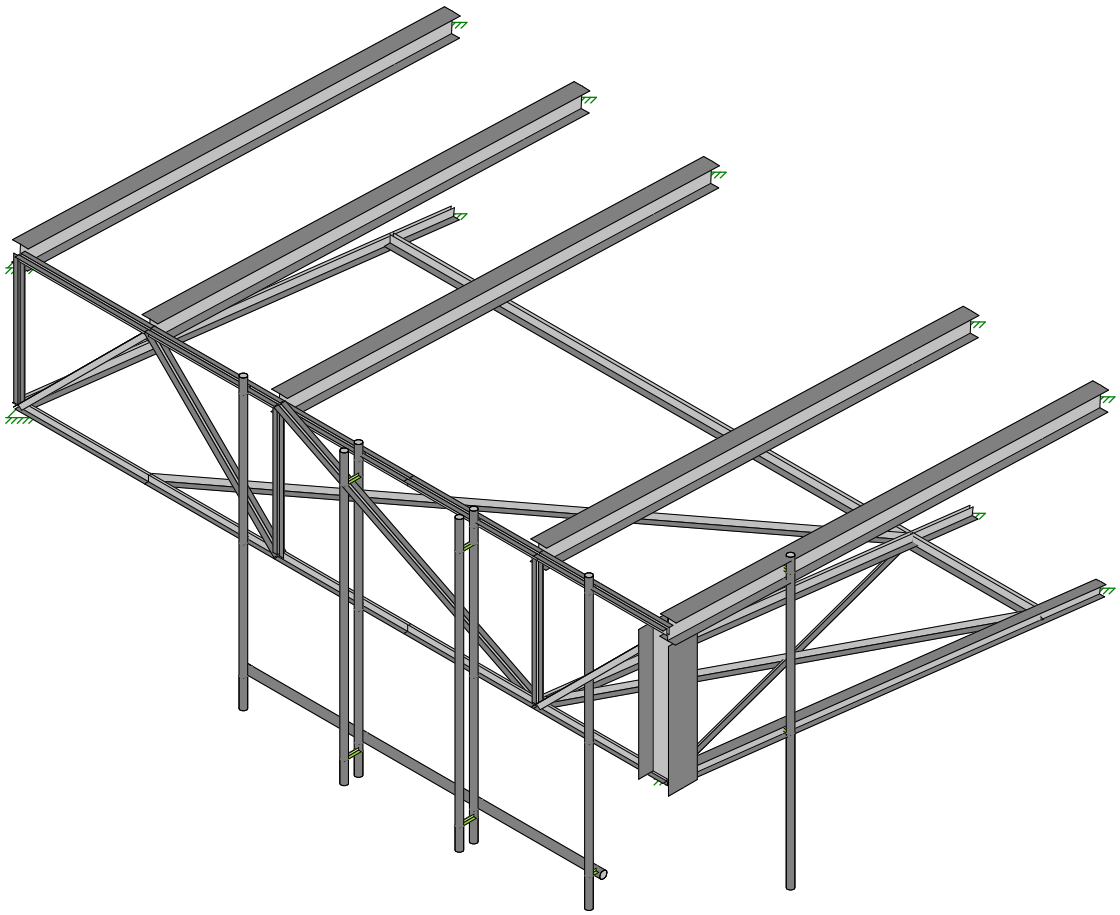
Pipe Mount	Antenna	Elevation (ft)	Quantity	Orientation (deg)	Front Exposed (%)	Side Exposed (%)	Type	Height (in)	Width (in)	Depth (in)	Weight (lbs)	Front CaAa (ft^2)	Side CaAa (ft^2)	Front F_A (kips)	Side F_A (kips)	Top %	Bottom %
MP1	max CMA-UBTULBULBHH-6517-17-	60	1	0	100.0%	100.0%	Antenna	96.500	27.200	7.700	115.000	22.722	8.176	0.515	0.185	9.8%	90.2%
MP1	Nokia Airscale Dual RRH 4T4R B12/1	63	1	90	25.0%	100.0%	RRU, TMA, Etc.	28.700	15.400	9.500	46.000	3.683	2.316	0.013	0.083	8.0%	32.0%
MP1	Alcatel Lucent TME B25 RRH4X30-4	63	1	90	25.0%	0.0%	RRU, TMA, Etc.	21.400	12.000	7.200	51.000	2.140	1.306	0.007	0.000	11.1%	28.9%
MP1																	
MP1																	
MP1																	
MP2	Raycap DC2-48-60-0-9E	63	1	0	100.0%	100.0%	RRU, TMA, Etc.	10.250	10.750	6.270	16.000	0.918	0.536	0.021	0.012	15.7%	24.3%
MP2																	
MP2																	
MP2																	
MP2																	
MP2																	
MP3																	
MP3																	
MP3																	
MP3																	
MP3																	
MP3																	
MP3B	Raycap FC12-PC6-10E	63	1	0	100.0%	100.0%	RRU, TMA, Etc.	15.500	16.250	6.640	20.350	2.099	0.858	0.048	0.019	13.5%	26.5%
MP3B	Alcatel Lucent TME RRH4X25-WCS-4	60	1	0	100.0%	100.0%	RRU, TMA, Etc.	34.700	13.200	11.300	91.000	3.835	3.337	0.087	0.076	35.5%	64.5%
MP3B																	
MP3B																	
MP3B																	
MP3B																	
MP4	Kathrein 80010992K	60	1	0	100.0%	100.0%	Antenna	105.200	20.000	6.900	144.300	19.326	8.443	0.438	0.191	6.2%	93.8%
MP4																	
MP4																	
MP4																	
MP4																	
MP4																	
MP4B	Nokia Airscale RRH 4T4R B5 160W AH	63	1	90	25.0%	0.0%	RRU, TMA, Etc.	13.270	11.600	6.500	36.800	1.283	0.719	0.004	0.000	14.5%	25.5%
MP4B	Alcatel Lucent TME B66A RRH4X45-4	63	1	90	25.0%	100.0%	RRU, TMA, Etc.	25.800	11.800	7.200	56.800	2.537	1.610	0.009	0.057	9.2%	30.8%
MP4B																	
MP4B																	
MP4B																	
MP4B																	
MP5	Nokia AEQK	63	1	0	100.0%	100.0%	Antenna	29.530	17.720	9.530	99.210	4.361	2.397	0.099	0.054	7.7%	32.3%
MP5	Nokia AEQU	59.5	1	0	100.0%	100.0%	Antenna	29.500	17.700	9.500	99.210	4.351	2.388	0.099	0.054	42.7%	67.3%
MP5																	
MP5																	
MP5																	
MP5																	

Pipe Mount	Antenna	Elevation (ft)	Quantity	Orientation (deg)	Front Exposed (%)	Side Exposed (%)	Type	Height (in)	Width (in)	Depth (in)	Ice Weight (lb)	Front CaAa (ft^2)	Side CaAa (ft^2)	Front F_A (kips)	Side F_A (kips)	Top %	Bottom %
MP1	max CMA-UBTULBULBHH-6517-17-	60	1	0	100.0%	100.0%	Antenna	96.500	27.200	7.700	258.618	24.543	9.807	0.052	0.021	9.8%	90.2%
MP1	Nokia Airscale Dual RRH 4T4R B12/1	63	1	90	25.0%	100.0%	RRU, TMA, Etc.	28.700	15.400	9.500	50.089	4.374	2.895	0.002	0.009	8.0%	32.0%
MP1	Alcatel Lucent TME B25 RRH4X30-4I	63	1	90	25.0%	0.0%	RRU, TMA, Etc.	21.400	12.000	7.200	29.287	2.669	1.746	0.001	0.000	11.1%	28.9%
MP1																	
MP1																	
MP1																	
MP2	Raycap DC2-48-60-0-9E	63	1	0	100.0%	100.0%	RRU, TMA, Etc.	10.250	10.750	6.270	12.569	1.261	0.811	0.003	0.002	15.7%	24.3%
MP2																	
MP2																	
MP2																	
MP2																	
MP2																	
MP3																	
MP3																	
MP3																	
MP3																	
MP3																	
MP3																	
MP3B	Raycap FC12-PC6-10E	63	1	0	100.0%	100.0%	RRU, TMA, Etc.	15.500	16.250	6.640	26.282	2.604	1.218	0.006	0.003	13.5%	26.5%
MP3B	Alcatel Lucent TME RRH4X25-WCS-4	60	1	0	100.0%	100.0%	RRU, TMA, Etc.	34.700	13.200	11.300	58.270	4.565	4.029	0.010	0.009	35.5%	64.5%
MP3B																	
MP3B																	
MP3B																	
MP3B																	
MP4	Kathrein 80010992K	60	1	0	100.0%	100.0%	Antenna	105.200	20.000	6.900	213.197	21.177	10.197	0.045	0.022	6.2%	93.8%
MP4																	
MP4																	
MP4																	
MP4																	
MP4																	
MP4B	Nokia Airscale RRH 4T4R B5 160W AH	63	1	90	25.0%	0.0%	RRU, TMA, Etc.	13.270	11.600	6.500	17.311	1.684	1.043	0.001	0.000	14.5%	25.5%
MP4B	Alcatel Lucent TME B66A RRH4X45-4	63	1	90	25.0%	100.0%	RRU, TMA, Etc.	25.800	11.800	7.200	34.903	3.130	2.115	0.001	0.007	9.2%	30.8%
MP4B																	
MP4B																	
MP4B																	
MP4B																	
MP5	Nokia AEQK	63	1	0	100.0%	100.0%	Antenna	29.530	17.720	9.530	57.033	5.098	2.989	0.011	0.006	7.7%	32.3%
MP5	Nokia AEQU	59.5	1	0	100.0%	100.0%	Antenna	29.500	17.700	9.500	56.889	5.088	2.978	0.011	0.006	42.7%	67.3%
MP5																	
MP5																	
MP5																	
MP5																	

Member	Section Set	Member Length (ft)	Flat/Round	Wind Projection (in)	D_c (in)	A_{lz} (in^2)	C_F	Front Wind (klf)	Side Wind (klf)	Front Ice Wind (klf)	Side Ice Wind (klf)	Ice Dead (klf)	Front Maint Wind (klf)	Side Maint Wind (klf)
M1	Face Horizontal	4.5	Flat	2.500	4.000	13.898	2.000	0.009	0.000	0.001	0.000	0.005	0.001	0.000
M2	Face Horizontal	4.5	Flat	2.500	4.000	13.898	2.000	0.009	0.000	0.001	0.000	0.005	0.001	0.000
M3	Face Horizontal	4.5	Flat	2.500	4.000	13.898	2.000	0.009	0.000	0.001	0.000	0.005	0.001	0.000
M4	Face Horizontal	4.5	Flat	2.500	4.000	13.898	2.000	0.009	0.000	0.001	0.000	0.005	0.001	0.000
M5	Face Horizontal	4.5	Flat	2.500	4.000	13.898	2.000	0.009	0.000	0.001	0.000	0.005	0.001	0.000
M6	Face Horizontal	4.5	Flat	2.500	4.000	13.898	2.000	0.009	0.000	0.001	0.000	0.005	0.001	0.000
M7	Face Horizontal	4.5	Flat	2.500	4.000	13.898	2.000	0.009	0.000	0.001	0.000	0.005	0.001	0.000
M8	Face Horizontal	4.5	Flat	2.500	4.000	13.898	2.000	0.009	0.000	0.001	0.000	0.005	0.001	0.000
M9	Face Horizontal	4.5	Flat	2.500	4.000	13.898	2.000	0.009	0.000	0.001	0.000	0.005	0.001	0.000
M10	Face Horizontal	4.5	Flat	2.500	4.000	13.898	2.000	0.009	0.000	0.001	0.000	0.005	0.001	0.000
M11	Diagonal	6.363961031	Flat	4.000	4.750	16.024	2.000	0.015	0.011	0.002	0.001	0.006	0.001	0.001
M12	Diagonal	6.363961031	Flat	4.000	4.750	16.024	2.000	0.015	0.011	0.002	0.001	0.006	0.001	0.001
M13	Diagonal	10.0623059	Flat	4.000	4.750	16.024	2.000	0.015	0.007	0.002	0.001	0.006	0.001	0.001
M14	Diagonal	6.363961031	Flat	4.000	4.750	16.024	2.000	0.015	0.011	0.002	0.001	0.006	0.001	0.001
M15	Verticals	4.5	Flat	4.000	4.375	14.961	2.000	0.015	0.015	0.002	0.002	0.006	0.001	0.001
M16	Verticals	4.5	Flat	4.000	4.375	14.961	2.000	0.015	0.015	0.002	0.002	0.006	0.001	0.001
M17	Beams	15.00833102	Flat	7.930	10.254	31.625	2.000	0.001	0.030	0.000	0.003	0.012	0.000	0.003
M18	Beams	15.00833102	Flat	7.930	10.254	31.625	2.000	0.001	0.030	0.000	0.003	0.012	0.000	0.003
M19	Beams	15.00833102	Flat	7.930	10.254	31.625	2.000	0.001	0.030	0.000	0.003	0.012	0.000	0.003
M20	Beams	15.00833102	Flat	7.930	10.254	31.625	2.000	0.001	0.030	0.000	0.003	0.012	0.000	0.003
M21	Beams	15.00833102	Flat	7.930	10.254	31.625	2.000	0.001	0.030	0.000	0.003	0.012	0.000	0.003
M22	Beam 2	15.10173831	Flat	4.160	5.813	19.037	2.000	0.002	0.016	0.000	0.002	0.007	0.000	0.002
M23	Cross Angle	13.75681666	Flat	2.500	3.536	12.581	2.000	0.002	0.009	0.000	0.001	0.005	0.000	0.001
M24	Cross Angle	13.7568167	Flat	2.500	3.536	12.581	2.000	0.001	0.008	0.000	0.001	0.005	0.000	0.001
M25	Cross Angle	13.7568167	Flat	2.500	3.536	12.581	2.000	0.001	0.008	0.000	0.001	0.005	0.000	0.001
M26	Cross Angle	18.74166496	Flat	2.500	3.536	12.581	2.000	0.005	0.005	0.001	0.001	0.005	0.000	0.000
M27	Cross Angle	18.74166496	Flat	2.500	3.536	12.581	2.000	0.005	0.005	0.001	0.001	0.005	0.000	0.000
M28	Cross Angle	18.74166494	Flat	2.500	3.536	12.581	2.000	0.005	0.005	0.001	0.001	0.005	0.001	0.000
M29	Cross Angle	13.75681666	Flat	2.500	3.536	12.581	2.000	0.002	0.009	0.000	0.001	0.005	0.000	0.001
M30	Low Beam Angle	15.10173831	Flat	6.000	6.000	19.567	2.000	0.003	0.023	0.000	0.003	0.008	0.000	0.002
M31	Low Beam Angle	15.10173831	Flat	6.000	6.000	19.567	2.000	0.003	0.023	0.000	0.003	0.008	0.000	0.002
M32	Verticals	4.5	Flat	4.000	4.375	14.961	2.000	0.015	0.015	0.002	0.002	0.006	0.001	0.001
M33	Large Vertical	4.5	Flat	12.300	17.184	51.272	2.000	0.046	0.046	0.005	0.005	0.020	0.005	0.005
M34	RIGID	0.25	Flat	0.000	0.000	2.558	2.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
M35	RIGID	0.25	Flat	0.000	0.000	2.558	2.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
M36	RIGID	0.25	Flat	0.000	0.000	2.558	2.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
M37	RIGID	0.25	Flat	0.000	0.000	2.558	2.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
M38	RIGID	0.25	Flat	0.000	0.000	2.558	2.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
M39	RIGID	0.25	Flat	0.000	0.000	2.558	2.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
M40	RIGID	0.25	Flat	0.000	0.000	2.558	2.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
M41	RIGID	0.25	Flat	0.000	0.000	2.558	2.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
MP2	Mount Pipe	10	Round	2.380	2.380	9.305	1.200	0.005	0.005	0.001	0.001	0.004	0.001	0.001
MP3B	Mount Pipe	10	Round	2.380	2.380	9.305	1.200	0.005	0.005	0.001	0.001	0.004	0.001	0.001
MP4B	Mount Pipe	10	Round	2.380	2.380	9.305	1.200	0.005	0.005	0.001	0.001	0.004	0.001	0.001
MP5	Mount Pipe	10	Round	2.380	2.380	9.305	1.200	0.005	0.005	0.001	0.001	0.004	0.001	0.001
MP3	Mount Pipe	10	Round	2.380	2.380	9.305	1.200	0.005	0.005	0.001	0.001	0.004	0.001	0.001
MP4	Mount Pipe	10	Round	2.380	2.380	9.305	1.200	0.005	0.005	0.001	0.001	0.004	0.001	0.001
M48	RIGID	0.5	Flat	0.000	0.000	2.558	2.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
M49	RIGID	0.5	Flat	0.000	0.000	2.558	2.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
M50	RIGID	0.5	Flat	0.000	0.000	2.558	2.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
M51	RIGID	0.5	Flat	0.000	0.000	2.558	2.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
M52	RIGID	0.25	Flat	0.000	0.000	2.558	2.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000
M53	RIGID	0.25	Flat	0.000	0.000	2.558	2.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000
MP1	Mount Pipe	10	Round	2.380	2.380	9.305	1.200	0.005	0.005	0.001	0.001	0.004	0.001	0.001
M55	Low Beam Angle	22.5	Flat	6.000	6.000	19.567	2.000	0.023	0.000	0.003	0.000	0.008	0.002	0.000
M56	New Horizontal	12.5	Round	2.880	2.880	10.723	1.200	0.007	0.000	0.001	0.000	0.004	0.001	0.000
M57	RIGID	0.25	Flat	0.000	0.000	2.558	2.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
M58	RIGID	0.25	Flat	0.000	0.000	2.558	2.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
M59	RIGID	0.25	Flat	0.000	0.000	2.558	2.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
M60	RIGID	0.25	Flat	0.000	0.000	2.558	2.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000

APPENDIX 3: RISA 3D OUTPUT (ALPHA SECTOR)

PRCTI20230195



Envelope Only Solution

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David Powers		Oct 28, 2022 at 10:05 AM
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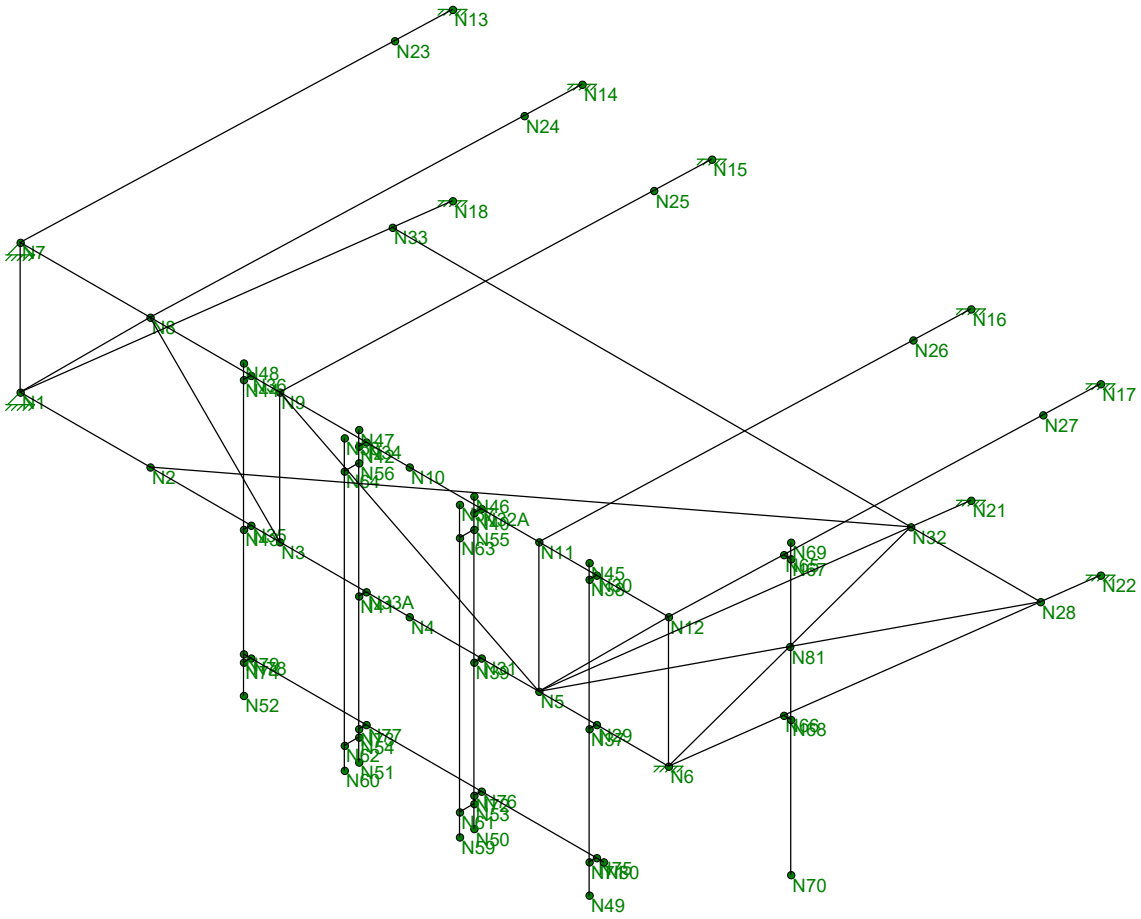
PRCTI20230195



Envelope Only Solution

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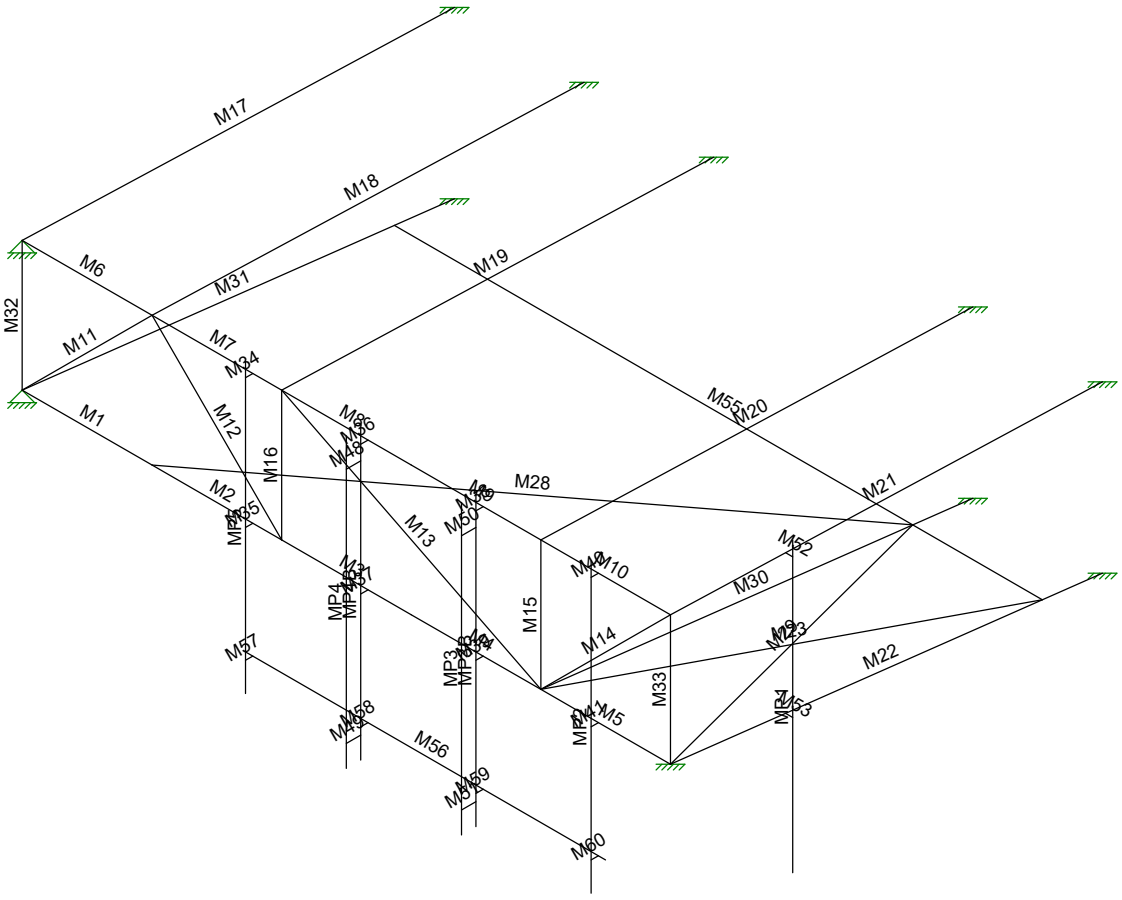

Envelope Only Solution

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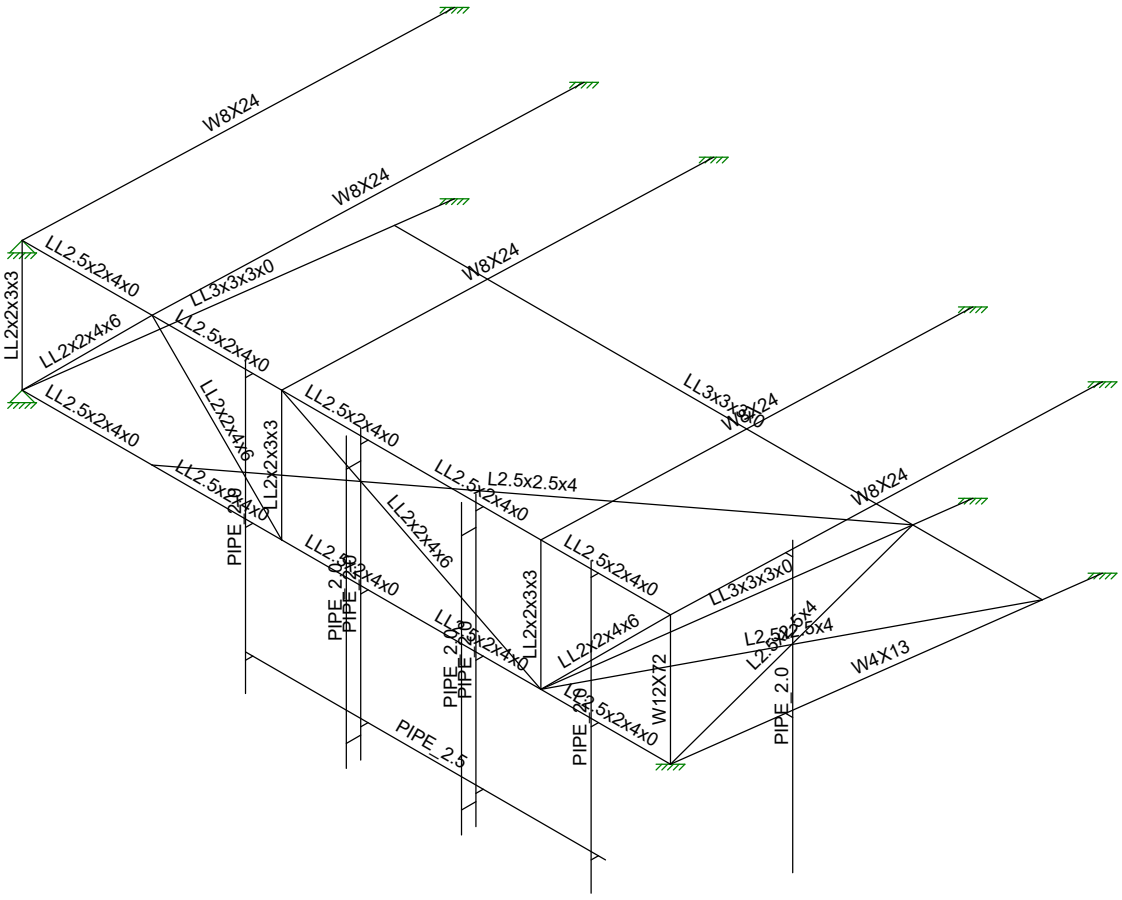

Envelope Only Solution

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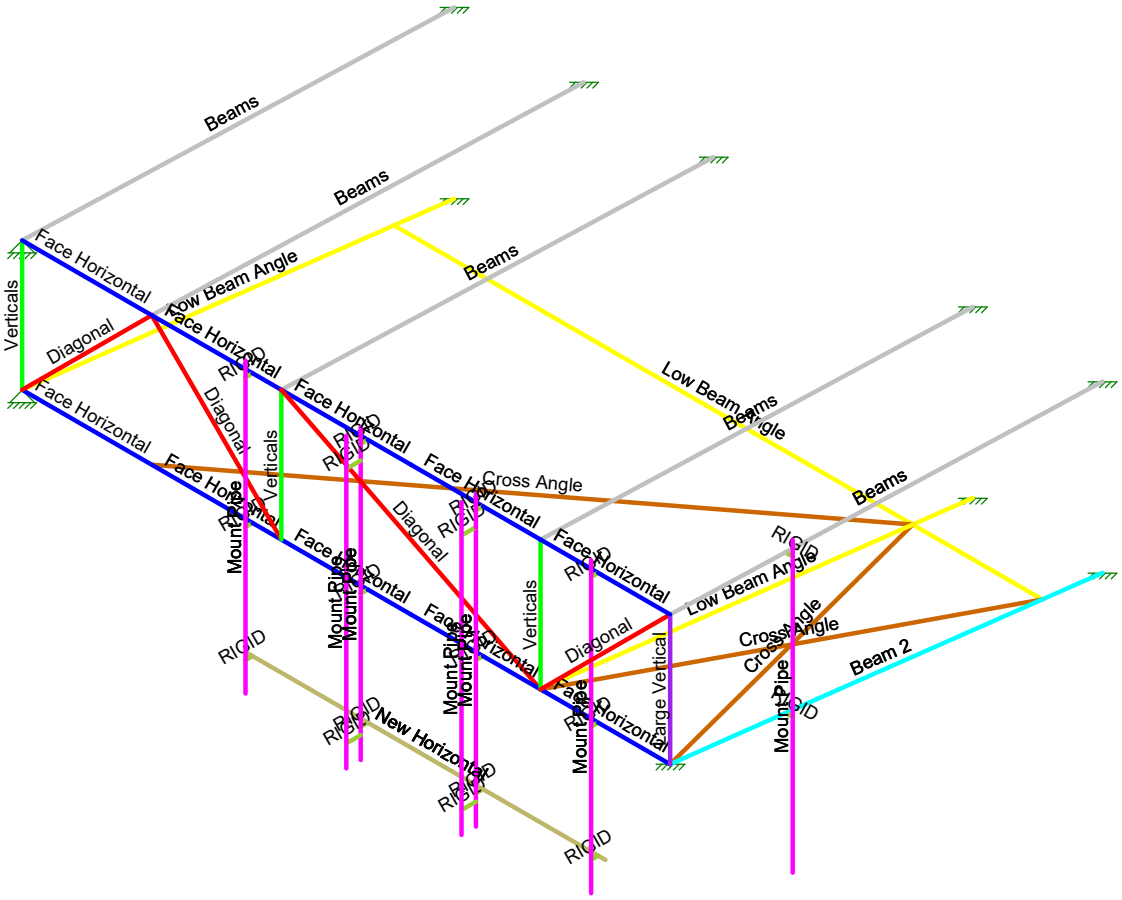

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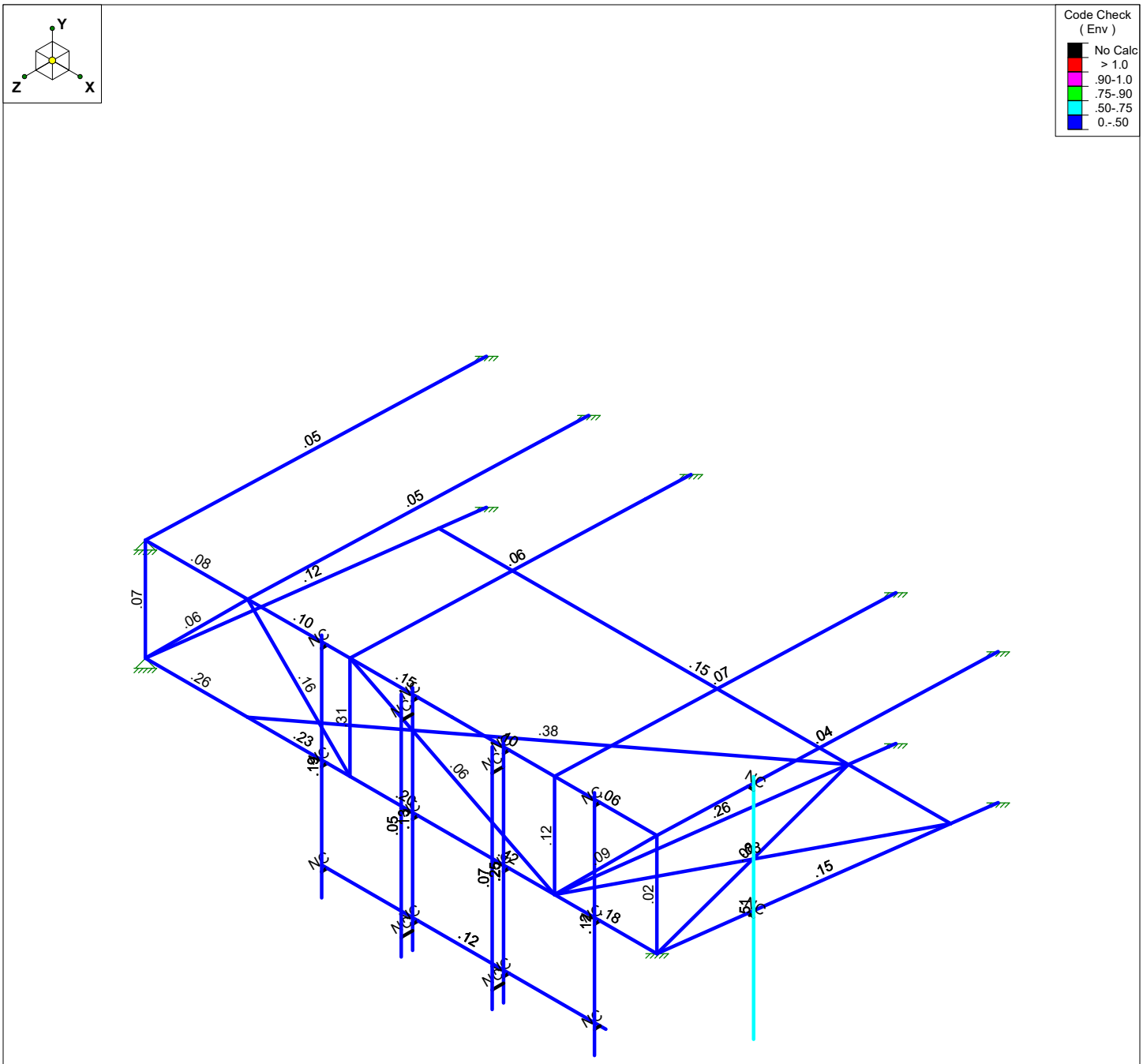

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Envelope Only Solution

MasTec Network Solutions	10102328 - DOWNTOWN PUYALLUP	
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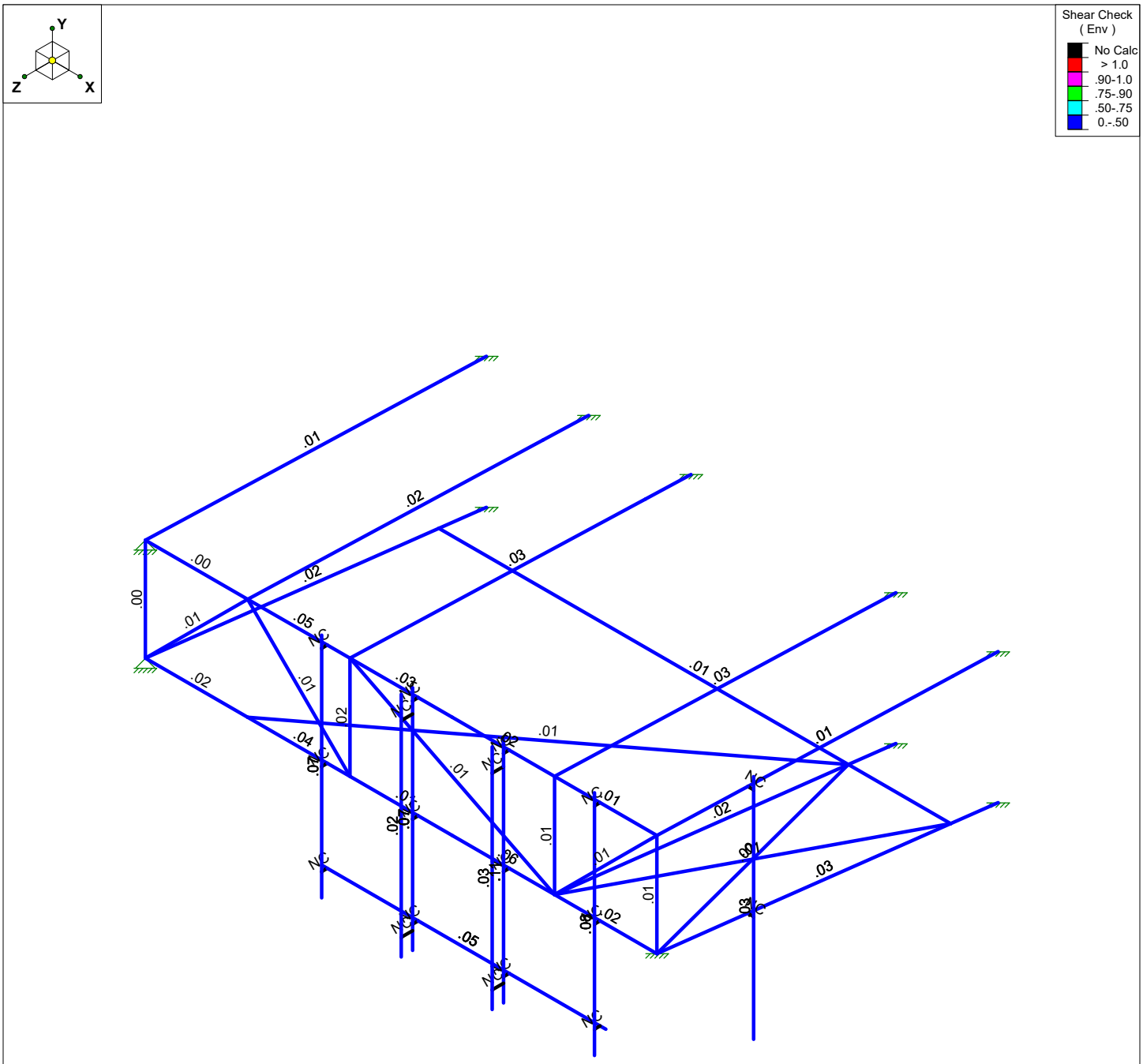

Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

MasTec Network Solutions	10102328 - DOWNTOWN PUYALLUP	
David Powers		Oct 28, 2022 at 10:07 AM
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Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E5 F)	Density[k/ft^3]	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65	.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65	.49	50	1.25	65	1.15
8	A913 Gr.65	29000	11154	.3	.65	.49	65	1.1	80	1.1

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horizontal	LL2.5x2x4x0	Beam	Double Angle (No...	A36 Gr.36	Typical	2.14	1.35	1.31	.047
2	Verticals	LL2x2x3x3	Beam	Double Angle (3/...	A36 Gr.36	Typical	1.44	1.35	.542	.018
3	Diagonal	LL2x2x4x6	Beam	Double Angle (3/...	A36 Gr.36	Typical	1.89	2.46	.692	.042
4	Beams	W8X24	Beam	Wide Flange	A36 Gr.36	Typical	7.08	18.3	82.7	.346
5	Mount Pipe	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
6	Beam 2	W4X13	Beam	Wide Flange	A36 Gr.36	Typical	3.83	3.86	11.3	.151
7	Cross Angle	L2.5x2.5x4	Beam	Single Angle	A36 Gr.36	Typical	1.19	.692	.692	.026
8	Low Beam An...	LL3x3x3x0	Beam	Double Angle (No...	A36 Gr.36	Typical	2.18	3.35	1.9	.027
9	Large Vertical	W12X72	Beam	Wide Flange	A36 Gr.36	Typical	21.1	195	597	2.93
10	New Horizontal	PIPE_2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	0	0	0	0	
2	N2	4.5	0	0	0	
3	N3	9	0	0	0	
4	N4	13.5	0	0	0	
5	N5	18	0	0	0	
6	N6	22.5	0	0	0	
7	N7	0	4.5	0	0	
8	N8	4.5	4.5	0	0	
9	N9	9	4.5	0	0	
10	N10	13.5	4.5	0	0	
11	N11	18	4.5	0	0	
12	N12	22.5	4.5	0	0	
13	N13	0	4	-15	0	
14	N14	4.5	4	-15	0	
15	N15	9	4	-15	0	
16	N16	18	4	-15	0	
17	N17	22.5	4	-15	0	
18	N18	0	-1.75	-15	0	
19	N21	18	-1.75	-15	0	
20	N22	22.5	-1.75	-15	0	
21	N23	0	4.066907	-12.992784	0	
22	N24	4.5	4.066907	-12.992784	0	
23	N25	9	4.066907	-12.992784	0	
24	N26	18	4.066907	-12.992784	0	
25	N27	22.5	4.066907	-12.992784	0	
26	N28	22.5	-1.506449	-12.912421	0	
27	N32	18	-1.506449	-12.912421	0	
28	N33	0	-1.506449	-12.912421	0	
29	N29	20	0	0	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
30	N30	20	4.5	0	0	
31	N31	16	0	0	0	
32	N32A	16	4.5	0	0	
33	N33A	12	0	0	0	
34	N34	12	4.5	0	0	
35	N35	8	0	0	0	
36	N36	8	4.5	0	0	
37	N37	20	0	.25	0	
38	N38	20	4.5	.25	0	
39	N39	16	0	.25	0	
40	N40	16	4.5	.25	0	
41	N41	12	0	.25	0	
42	N42	12	4.5	.25	0	
43	N43	8	0	.25	0	
44	N44	8	4.5	.25	0	
45	N45	20	5	.25	0	
46	N46	16	5	.25	0	
47	N47	12	5	.25	0	
48	N48	8	5	.25	0	
49	N49	20	-5	.25	0	
50	N50	16	-5	.25	0	
51	N51	12	-5	.25	0	
52	N52	8	-5	.25	0	
53	N53	16	-4.25	.25	0	
54	N54	12	-4.25	.25	0	
55	N55	16	4	.25	0	
56	N56	12	4	.25	0	
57	N57	16	5	.75	0	
58	N58	12	5	.75	0	
59	N59	16	-5	.75	0	
60	N60	12	-5	.75	0	
61	N61	16	-4.25	.75	0	
62	N62	12	-4.25	.75	0	
63	N63	16	4	.75	0	
64	N64	12	4	.75	0	
65	N65	22.5	4.366741	-3.99778	0	
66	N66	22.5	-0.466408	-3.997783	0	
67	N67	22.75	4.366741	-3.99778	0	
68	N68	22.75	-0.463523	-3.997783	0	
69	N69	22.75	4.866741	-3.99778	0	
70	N70	22.75	-5.133259	-3.99778	0	
71	N71	20	-4	.25	0	
72	N72	16	-4	.25	0	
73	N73	12	-4	.25	0	
74	N74	8	-4	.25	0	
75	N75	20	-4	0	0	
76	N76	16	-4	0	0	
77	N77	12	-4	0	0	
78	N78	8	-4	0	0	
79	N79	7.75	-4	0	0	
80	N80	20.25	-4	0	0	
81	N81	20.25	-0.753225	-6.45621	0	

Joint Boundary Conditions

	Joint Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot.[k-ft/rad]	Y Rot.[k-ft/rad]	Z Rot.[k-ft/rad]
1	N6	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
2	N22	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
3	N21	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
4	N17	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
5	N16	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
6	N15	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
7	N14	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
8	N13	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
9	N18	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
10	N29						
11	N31						
12	N33A						
13	N35						
14	N37						
15	N39						
16	N41						
17	N43						
18	N1	Reaction	Reaction	Reaction			
19	N7	Reaction	Reaction	Reaction			

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N1	N2		180	Face Horizontal	Beam	Double Angle (...	A36 Gr.36	Typical
2	M2	N2	N3		180	Face Horizontal	Beam	Double Angle (...	A36 Gr.36	Typical
3	M3	N3	N4		180	Face Horizontal	Beam	Double Angle (...	A36 Gr.36	Typical
4	M4	N4	N5		180	Face Horizontal	Beam	Double Angle (...	A36 Gr.36	Typical
5	M5	N5	N6		180	Face Horizontal	Beam	Double Angle (...	A36 Gr.36	Typical
6	M6	N7	N8			Face Horizontal	Beam	Double Angle (...	A36 Gr.36	Typical
7	M7	N8	N9			Face Horizontal	Beam	Double Angle (...	A36 Gr.36	Typical
8	M8	N9	N10			Face Horizontal	Beam	Double Angle (...	A36 Gr.36	Typical
9	M9	N10	N11			Face Horizontal	Beam	Double Angle (...	A36 Gr.36	Typical
10	M10	N11	N12			Face Horizontal	Beam	Double Angle (...	A36 Gr.36	Typical
11	M11	N8	N1			Diagonal	Beam	Double Angle (...	A36 Gr.36	Typical
12	M12	N8	N3			Diagonal	Beam	Double Angle (...	A36 Gr.36	Typical
13	M13	N9	N5			Diagonal	Beam	Double Angle (...	A36 Gr.36	Typical
14	M14	N12	N5			Diagonal	Beam	Double Angle (...	A36 Gr.36	Typical
15	M15	N11	N5		270	Verticals	Beam	Double Angle (...	A36 Gr.36	Typical
16	M16	N9	N3		270	Verticals	Beam	Double Angle (...	A36 Gr.36	Typical
17	M17	N7	N13			Beams	Beam	Wide Flange	A36 Gr.36	Typical
18	M18	N8	N14			Beams	Beam	Wide Flange	A36 Gr.36	Typical
19	M19	N9	N15			Beams	Beam	Wide Flange	A36 Gr.36	Typical
20	M20	N11	N16			Beams	Beam	Wide Flange	A36 Gr.36	Typical
21	M21	N12	N17			Beams	Beam	Wide Flange	A36 Gr.36	Typical
22	M22	N6	N22			Beam 2	Beam	Wide Flange	A36 Gr.36	Typical
23	M23	N5	N28			Cross Angle	Beam	Single Angle	A36 Gr.36	Typical
24	M28	N2	N32			Cross Angle	Beam	Single Angle	A36 Gr.36	Typical
25	M29	N6	N32		270	Cross Angle	Beam	Single Angle	A36 Gr.36	Typical
26	M30	N5	N21		180	Low Beam An...	Beam	Double Angle (...	A36 Gr.36	Typical
27	M31	N1	N18		180	Low Beam An...	Beam	Double Angle (...	A36 Gr.36	Typical
28	M32	N7	N1		270	Verticals	Beam	Double Angle (...	A36 Gr.36	Typical
29	M33	N12	N6			Large Vertical	Beam	Wide Flange	A36 Gr.36	Typical
30	M34	N44	N36			RIGID	None	None	RIGID	Typical
31	M35	N43	N35			RIGID	None	None	RIGID	Typical
32	M36	N42	N34			RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
33	M37	N41	N33A			RIGID	None	None	RIGID	Typical
34	M38	N40	N32A			RIGID	None	None	RIGID	Typical
35	M39	N39	N31			RIGID	None	None	RIGID	Typical
36	M40	N38	N30			RIGID	None	None	RIGID	Typical
37	M41	N37	N29			RIGID	None	None	RIGID	Typical
38	MP2	N45	N49			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
39	MP3B	N46	N50			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
40	MP4B	N47	N51			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
41	MP5	N48	N52			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
42	MP3	N57	N59			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
43	MP4	N58	N60			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
44	M48	N64	N56			RIGID	None	None	RIGID	Typical
45	M49	N62	N54			RIGID	None	None	RIGID	Typical
46	M50	N63	N55			RIGID	None	None	RIGID	Typical
47	M51	N61	N53			RIGID	None	None	RIGID	Typical
48	M52	N65	N67			RIGID	None	None	RIGID	Typical
49	M53	N66	N68			RIGID	None	None	RIGID	Typical
50	MP1	N69	N70			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
51	M55	N28	N33		180	Low Beam An...	Beam	Double Angle (...	A36 Gr.36	Typical
52	M56	N79	N80			New Horizontal	Beam	Pipe	A53 Gr.B	Typical
53	M57	N74	N78			RIGID	None	None	RIGID	Typical
54	M58	N73	N77			RIGID	None	None	RIGID	Typical
55	M59	N72	N76			RIGID	None	None	RIGID	Typical
56	M60	N71	N75			RIGID	None	None	RIGID	Typical

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

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/ft...
1				0

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

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/ft...
1				0

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

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/ft...
1				0

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

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/ft...
1				0

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

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/ft...
1				0

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

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/ft...
1				0

Member Point Loads (BLC 1 : Dead)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP1	Y	-.115	%50
2	MP1	Y	-.046	%20
3	MP1	Y	-.051	%20
4	MP2	Y	-.016	%20
5	MP3B	Y	-.02	%20
6	MP3B	Y	-.091	%50
7	MP4	Y	-.144	%50
8	MP4B	Y	-.037	%20
9	MP4B	Y	-.057	%20
10	MP5	Y	-.099	%20
11	MP5	Y	-.099	%55

Member Point Loads (BLC 2 : Ice Dead)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP1	Y	-.259	%50
2	MP1	Y	-.05	%20
3	MP1	Y	-.029	%20
4	MP2	Y	-.013	%20
5	MP3B	Y	-.026	%20
6	MP3B	Y	-.058	%50
7	MP4	Y	-.213	%50
8	MP4B	Y	-.017	%20
9	MP4B	Y	-.035	%20
10	MP5	Y	-.057	%20
11	MP5	Y	-.057	%55

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP1	Z	-.257	%9.8
2	MP1	Z	-.013	%20
3	MP1	Z	-.007	%20
4	MP2	Z	-.021	%20
5	MP3B	Z	-.048	%20
6	MP3B	Z	-.087	%50
7	MP4	Z	-.219	%6.2
8	MP4B	Z	-.004	%20
9	MP4B	Z	-.009	%20
10	MP5	Z	-.049	%7.7
11	MP5	Z	-.049	%42.7
12	MP1	Z	-.257	%90.2
13	MP4	Z	-.219	%93.8
14	MP5	Z	-.049	%32.3
15	MP5	Z	-.049	%67.3

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP1	Z	-.187	%9.8
2	MP1	Z	-.013	%20
3	MP1	Z	-.007	%20
4	MP2	Z	-.016	%20
5	MP3B	Z	-.035	%20
6	MP3B	Z	-.073	%50
7	MP4	Z	-.163	%6.2
8	MP4B	Z	-.004	%20

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
9	MP4B	Z	-.009	%20
10	MP5	Z	-.038	%7.7
11	MP5	Z	-.038	%42.7
12	MP1	Z	-.187	%90.2
13	MP4	Z	-.163	%93.8
14	MP5	Z	-.038	%32.3
15	MP5	Z	-.038	%67.3
16	MP1	X	.108	%9.8
17	MP1	X	.022	%20
18	MP1	X	.002	%20
19	MP2	X	.009	%20
20	MP3B	X	.02	%20
21	MP3B	X	.042	%50
22	MP4	X	.094	%6.2
23	MP4B	X	.001	%20
24	MP4B	X	.015	%20
25	MP5	X	.022	%7.7
26	MP5	X	.022	%42.7
27	MP1	X	.108	%90.2
28	MP4	X	.094	%93.8
29	MP5	X	.022	%32.3
30	MP5	X	.022	%67.3

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP1	Z	-.067	%9.8
2	MP1	Z	-.009	%20
3	MP1	Z	-.005	%20
4	MP2	Z	-.007	%20
5	MP3B	Z	-.013	%20
6	MP3B	Z	-.039	%50
7	MP4	Z	-.063	%6.2
8	MP4B	Z	-.003	%20
9	MP4B	Z	-.007	%20
10	MP5	Z	-.016	%7.7
11	MP5	Z	-.016	%42.7
12	MP1	Z	-.067	%90.2
13	MP4	Z	-.063	%93.8
14	MP5	Z	-.016	%32.3
15	MP5	Z	-.016	%67.3
16	MP1	X	.116	%9.8
17	MP1	X	.025	%20
18	MP1	X	.008	%20
19	MP2	X	.012	%20
20	MP3B	X	.023	%20
21	MP3B	X	.068	%50
22	MP4	X	.11	%6.2
23	MP4B	X	.005	%20
24	MP4B	X	.017	%20
25	MP5	X	.028	%7.7
26	MP5	X	.028	%42.7
27	MP1	X	.116	%90.2
28	MP4	X	.11	%93.8
29	MP5	X	.028	%32.3
30	MP5	X	.028	%67.3

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP1	Z	0	%9.8
2	MP1	Z	0	%20
3	MP1	Z	0	%20
4	MP2	Z	0	%20
5	MP3B	Z	0	%20
6	MP3B	Z	0	%50
7	MP4	Z	0	%6.2
8	MP4B	Z	0	%20
9	MP4B	Z	0	%20
10	MP5	Z	0	%7.7
11	MP5	Z	0	%42.7
12	MP1	Z	0	%90.2
13	MP4	Z	0	%93.8
14	MP5	Z	0	%32.3
15	MP5	Z	0	%67.3
16	MP1	X	.093	%9.8
17	MP1	X	.021	%20
18	MP1	X	.012	%20
19	MP2	X	.012	%20
20	MP3B	X	.019	%20
21	MP3B	X	.076	%50
22	MP4	X	.096	%6.2
23	MP4B	X	.007	%20
24	MP4B	X	.014	%20
25	MP5	X	.027	%7.7
26	MP5	X	.027	%42.7
27	MP1	X	.093	%90.2
28	MP4	X	.096	%93.8
29	MP5	X	.027	%32.3
30	MP5	X	.027	%67.3

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP1	Z	.067	%9.8
2	MP1	Z	.009	%20
3	MP1	Z	.005	%20
4	MP2	Z	.007	%20
5	MP3B	Z	.013	%20
6	MP3B	Z	.039	%50
7	MP4	Z	.063	%6.2
8	MP4B	Z	.003	%20
9	MP4B	Z	.007	%20
10	MP5	Z	.016	%7.7
11	MP5	Z	.016	%42.7
12	MP1	Z	.067	%90.2
13	MP4	Z	.063	%93.8
14	MP5	Z	.016	%32.3
15	MP5	Z	.016	%67.3
16	MP1	X	.116	%9.8
17	MP1	X	.025	%20
18	MP1	X	.008	%20
19	MP2	X	.012	%20
20	MP3B	X	.023	%20
21	MP3B	X	.068	%50
22	MP4	X	.11	%6.2
23	MP4B	X	.005	%20

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
24	MP4B	X	.017	%20
25	MP5	X	.028	%7.7
26	MP5	X	.028	%42.7
27	MP1	X	.116	%90.2
28	MP4	X	.11	%93.8
29	MP5	X	.028	%32.3
30	MP5	X	.028	%67.3

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP1	Z	.187	%9.8
2	MP1	Z	.013	%20
3	MP1	Z	.007	%20
4	MP2	Z	.016	%20
5	MP3B	Z	.035	%20
6	MP3B	Z	.073	%50
7	MP4	Z	.163	%6.2
8	MP4B	Z	.004	%20
9	MP4B	Z	.009	%20
10	MP5	Z	.038	%7.7
11	MP5	Z	.038	%42.7
12	MP1	Z	.187	%90.2
13	MP4	Z	.163	%93.8
14	MP5	Z	.038	%32.3
15	MP5	Z	.038	%67.3
16	MP1	X	.108	%9.8
17	MP1	X	.022	%20
18	MP1	X	.002	%20
19	MP2	X	.009	%20
20	MP3B	X	.02	%20
21	MP3B	X	.042	%50
22	MP4	X	.094	%6.2
23	MP4B	X	.001	%20
24	MP4B	X	.015	%20
25	MP5	X	.022	%7.7
26	MP5	X	.022	%42.7
27	MP1	X	.108	%90.2
28	MP4	X	.094	%93.8
29	MP5	X	.022	%32.3
30	MP5	X	.022	%67.3

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP1	Z	-.026	%9.8
2	MP1	Z	-.002	%20
3	MP1	Z	-.001	%20
4	MP2	Z	-.003	%20
5	MP3B	Z	-.006	%20
6	MP3B	Z	-.01	%50
7	MP4	Z	-.023	%6.2
8	MP4B	Z	-.001	%20
9	MP4B	Z	-.001	%20
10	MP5	Z	-.005	%7.7
11	MP5	Z	-.005	%42.7
12	MP1	Z	-.026	%90.2
13	MP4	Z	-.023	%93.8

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
14	MP5	Z	-.005	%32.3
15	MP5	Z	-.005	%67.3

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP1	Z	-.019	%9.8
2	MP1	Z	-.002	%20
3	MP1	Z	-.001	%20
4	MP2	Z	-.002	%20
5	MP3B	Z	-.004	%20
6	MP3B	Z	-.008	%50
7	MP4	Z	-.017	%6.2
8	MP4B	Z	-.001	%20
9	MP4B	Z	-.001	%20
10	MP5	Z	-.004	%7.7
11	MP5	Z	-.004	%42.7
12	MP1	Z	-.019	%90.2
13	MP4	Z	-.017	%93.8
14	MP5	Z	-.004	%32.3
15	MP5	Z	-.004	%67.3
16	MP1	X	.011	%9.8
17	MP1	X	.003	%20
18	MP1	X	0	%20
19	MP2	X	.001	%20
20	MP3B	X	.002	%20
21	MP3B	X	.005	%50
22	MP4	X	.01	%6.2
23	MP4B	X	0	%20
24	MP4B	X	.002	%20
25	MP5	X	.002	%7.7
26	MP5	X	.002	%42.7
27	MP1	X	.011	%90.2
28	MP4	X	.01	%93.8
29	MP5	X	.002	%32.3
30	MP5	X	.002	%67.3

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP1	Z	-.007	%9.8
2	MP1	Z	-.001	%20
3	MP1	Z	-.001	%20
4	MP2	Z	-.001	%20
5	MP3B	Z	-.002	%20
6	MP3B	Z	-.004	%50
7	MP4	Z	-.007	%6.2
8	MP4B	Z	0	%20
9	MP4B	Z	-.001	%20
10	MP5	Z	-.002	%7.7
11	MP5	Z	-.002	%42.7
12	MP1	Z	-.007	%90.2
13	MP4	Z	-.007	%93.8
14	MP5	Z	-.002	%32.3
15	MP5	Z	-.002	%67.3
16	MP1	X	.012	%9.8
17	MP1	X	.003	%20
18	MP1	X	.001	%20

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
19	MP2	X	.002	%20
20	MP3B	X	.003	%20
21	MP3B	X	.008	%50
22	MP4	X	.012	%6.2
23	MP4B	X	.001	%20
24	MP4B	X	.002	%20
25	MP5	X	.003	%7.7
26	MP5	X	.003	%42.7
27	MP1	X	.012	%90.2
28	MP4	X	.012	%93.8
29	MP5	X	.003	%32.3
30	MP5	X	.003	%67.3

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP1	Z	0	%9.8
2	MP1	Z	0	%20
3	MP1	Z	0	%20
4	MP2	Z	0	%20
5	MP3B	Z	0	%20
6	MP3B	Z	0	%50
7	MP4	Z	0	%6.2
8	MP4B	Z	0	%20
9	MP4B	Z	0	%20
10	MP5	Z	0	%7.7
11	MP5	Z	0	%42.7
12	MP1	Z	0	%90.2
13	MP4	Z	0	%93.8
14	MP5	Z	0	%32.3
15	MP5	Z	0	%67.3
16	MP1	X	.01	%9.8
17	MP1	X	.002	%20
18	MP1	X	.001	%20
19	MP2	X	.002	%20
20	MP3B	X	.003	%20
21	MP3B	X	.009	%50
22	MP4	X	.011	%6.2
23	MP4B	X	.001	%20
24	MP4B	X	.002	%20
25	MP5	X	.003	%7.7
26	MP5	X	.003	%42.7
27	MP1	X	.01	%90.2
28	MP4	X	.011	%93.8
29	MP5	X	.003	%32.3
30	MP5	X	.003	%67.3

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP1	Z	.007	%9.8
2	MP1	Z	.001	%20
3	MP1	Z	.001	%20
4	MP2	Z	.001	%20
5	MP3B	Z	.002	%20
6	MP3B	Z	.004	%50
7	MP4	Z	.007	%6.2
8	MP4B	Z	0	%20

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
9	MP4B	Z	.001	%20
10	MP5	Z	.002	%7.7
11	MP5	Z	.002	%42.7
12	MP1	Z	.007	%90.2
13	MP4	Z	.007	%93.8
14	MP5	Z	.002	%32.3
15	MP5	Z	.002	%67.3
16	MP1	X	.012	%9.8
17	MP1	X	.003	%20
18	MP1	X	.001	%20
19	MP2	X	.002	%20
20	MP3B	X	.003	%20
21	MP3B	X	.008	%50
22	MP4	X	.012	%6.2
23	MP4B	X	.001	%20
24	MP4B	X	.002	%20
25	MP5	X	.003	%7.7
26	MP5	X	.003	%42.7
27	MP1	X	.012	%90.2
28	MP4	X	.012	%93.8
29	MP5	X	.003	%32.3
30	MP5	X	.003	%67.3

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP1	Z	.019	%9.8
2	MP1	Z	.001	%20
3	MP1	Z	.001	%20
4	MP2	Z	.001	%20
5	MP3B	Z	.002	%20
6	MP3B	Z	.004	%50
7	MP4	Z	.007	%6.2
8	MP4B	Z	0	%20
9	MP4B	Z	.001	%20
10	MP5	Z	.002	%7.7
11	MP5	Z	.002	%42.7
12	MP1	Z	.019	%90.2
13	MP4	Z	.007	%93.8
14	MP5	Z	.002	%32.3
15	MP5	Z	.002	%67.3
16	MP1	X	.011	%9.8
17	MP1	X	.003	%20
18	MP1	X	.001	%20
19	MP2	X	.002	%20
20	MP3B	X	.003	%20
21	MP3B	X	.008	%50
22	MP4	X	.012	%6.2
23	MP4B	X	.001	%20
24	MP4B	X	.002	%20
25	MP5	X	.003	%7.7
26	MP5	X	.003	%42.7
27	MP1	X	.011	%90.2
28	MP4	X	.012	%93.8
29	MP5	X	.003	%32.3
30	MP5	X	.003	%67.3

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP1	Z	-.047	%50
2	MP1	Z	-.019	%20
3	MP1	Z	-.021	%20
4	MP2	Z	-.007	%20
5	MP3B	Z	-.008	%20
6	MP3B	Z	-.037	%50
7	MP4	Z	-.059	%50
8	MP4B	Z	-.015	%20
9	MP4B	Z	-.023	%20
10	MP5	Z	-.04	%20
11	MP5	Z	-.04	%55

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP1	X	.047	%50
2	MP1	X	.019	%20
3	MP1	X	.021	%20
4	MP2	X	.007	%20
5	MP3B	X	.008	%20
6	MP3B	X	.037	%50
7	MP4	X	.059	%50
8	MP4B	X	.015	%20
9	MP4B	X	.023	%20
10	MP5	X	.04	%20
11	MP5	X	.04	%55

Member Point Loads (BLC 41 : Seismic Vertical Antennas)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP1	Y	-.023	%50
2	MP1	Y	-.009	%20
3	MP1	Y	-.01	%20
4	MP2	Y	-.003	%20
5	MP3B	Y	-.004	%20
6	MP3B	Y	-.019	%50
7	MP4	Y	-.029	%50
8	MP4B	Y	-.007	%20
9	MP4B	Y	-.012	%20
10	MP5	Y	-.02	%20
11	MP5	Y	-.02	%55

Member Distributed Loads (BLC 2 : Ice Dead)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	M1	Y	-.005	-.005	0	%100
2	M2	Y	-.005	-.005	0	%100
3	M3	Y	-.005	-.005	0	%100
4	M4	Y	-.005	-.005	0	%100
5	M5	Y	-.005	-.005	0	%100
6	M6	Y	-.005	-.005	0	%100
7	M7	Y	-.005	-.005	0	%100
8	M8	Y	-.005	-.005	0	%100
9	M9	Y	-.005	-.005	0	%100
10	M10	Y	-.005	-.005	0	%100
11	M11	Y	-.006	-.006	0	%100
12	M12	Y	-.006	-.006	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
13	M13	Y	-.006	-.006	0	%100
14	M14	Y	-.006	-.006	0	%100
15	M15	Y	-.006	-.006	0	%100
16	M16	Y	-.006	-.006	0	%100
17	M17	Y	-.012	-.012	0	%100
18	M18	Y	-.012	-.012	0	%100
19	M19	Y	-.012	-.012	0	%100
20	M20	Y	-.012	-.012	0	%100
21	M21	Y	-.012	-.012	0	%100
22	M22	Y	-.007	-.007	0	%100
23	M23	Y	-.005	-.005	0	%100
24	M28	Y	-.005	-.005	0	%100
25	M29	Y	-.005	-.005	0	%100
26	M30	Y	-.008	-.008	0	%100
27	M31	Y	-.008	-.008	0	%100
28	M32	Y	-.006	-.006	0	%100
29	M33	Y	-.02	-.02	0	%100
30	M34	Y	-.001	-.001	0	%100
31	M35	Y	-.001	-.001	0	%100
32	M36	Y	-.001	-.001	0	%100
33	M37	Y	-.001	-.001	0	%100
34	M38	Y	-.001	-.001	0	%100
35	M39	Y	-.001	-.001	0	%100
36	M40	Y	-.001	-.001	0	%100
37	M41	Y	-.001	-.001	0	%100
38	MP2	Y	-.004	-.004	0	%100
39	MP3B	Y	-.004	-.004	0	%100
40	MP4B	Y	-.004	-.004	0	%100
41	MP5	Y	-.004	-.004	0	%100
42	MP3	Y	-.004	-.004	0	%100
43	MP4	Y	-.004	-.004	0	%100
44	M48	Y	-.001	-.001	0	%100
45	M49	Y	-.001	-.001	0	%100
46	M50	Y	-.001	-.001	0	%100
47	M51	Y	-.001	-.001	0	%100
48	M52	Y	-.001	-.001	0	%100
49	M53	Y	-.001	-.001	0	%100
50	MP1	Y	-.004	-.004	0	%100
51	M55	Y	-.008	-.008	0	%100
52	M56	Y	-.004	-.004	0	%100
53	M57	Y	-.001	-.001	0	%100
54	M58	Y	-.001	-.001	0	%100
55	M59	Y	-.001	-.001	0	%100
56	M60	Y	-.001	-.001	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	M1	Z	-.009	-.009	0	%100
2	M2	Z	-.009	-.009	0	%100
3	M3	Z	-.009	-.009	0	%100
4	M4	Z	-.009	-.009	0	%100
5	M5	Z	-.009	-.009	0	%100
6	M6	Z	-.009	-.009	0	%100
7	M7	Z	-.009	-.009	0	%100
8	M8	Z	-.009	-.009	0	%100
9	M9	Z	-.009	-.009	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
10	M10	Z	-.009	-.009	0	%100
11	M11	Z	-.015	-.015	0	%100
12	M12	Z	-.015	-.015	0	%100
13	M13	Z	-.015	-.015	0	%100
14	M14	Z	-.015	-.015	0	%100
15	M15	Z	-.015	-.015	0	%100
16	M16	Z	-.015	-.015	0	%100
17	M17	Z	-.001	-.001	0	%100
18	M18	Z	-.001	-.001	0	%100
19	M19	Z	-.001	-.001	0	%100
20	M20	Z	-.001	-.001	0	%100
21	M21	Z	-.001	-.001	0	%100
22	M22	Z	-.002	-.002	0	%100
23	M23	Z	-.002	-.002	0	%100
24	M28	Z	-.005	-.005	0	%100
25	M29	Z	-.002	-.002	0	%100
26	M30	Z	-.003	-.003	0	%100
27	M31	Z	-.003	-.003	0	%100
28	M32	Z	-.015	-.015	0	%100
29	M33	Z	-.046	-.046	0	%100
30	MP2	Z	-.005	-.005	0	%15.7
31	MP3B	Z	-.005	-.005	0	%13.5
32	MP4B	Z	-.005	-.005	0	%100
33	MP5	Z	-.005	-.005	0	%7.7
34	MP4	Z	-.005	-.005	0	%6.2
35	MP1	Z	-.005	-.005	0	%8
36	M55	Z	-.023	-.023	0	%100
37	M56	Z	-.007	-.007	0	%100
38	MP2	Z	-.005	-.005	%24.3	%100
39	MP3B	Z	-.005	-.005	%64.5	%100
40	MP5	Z	-.005	-.005	%67.3	%100
41	MP3	Z	-.005	-.005	0	%100
42	MP4	Z	-.005	-.005	%93.8	%100
43	MP1	Z	-.005	-.005	%90.2	%100
44	M1	X	0	0	0	%100
45	M2	X	0	0	0	%100
46	M3	X	0	0	0	%100
47	M4	X	0	0	0	%100
48	M5	X	0	0	0	%100
49	M6	X	0	0	0	%100
50	M7	X	0	0	0	%100
51	M8	X	0	0	0	%100
52	M9	X	0	0	0	%100
53	M10	X	0	0	0	%100
54	M11	X	0	0	0	%100
55	M12	X	0	0	0	%100
56	M13	X	0	0	0	%100
57	M14	X	0	0	0	%100
58	M15	X	0	0	0	%100
59	M16	X	0	0	0	%100
60	M17	X	0	0	0	%100
61	M18	X	0	0	0	%100
62	M19	X	0	0	0	%100
63	M20	X	0	0	0	%100
64	M21	X	0	0	0	%100
65	M22	X	0	0	0	%100
66	M23	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
67	M28	X	0	0	0	%100
68	M29	X	0	0	0	%100
69	M30	X	0	0	0	%100
70	M31	X	0	0	0	%100
71	M32	X	0	0	0	%100
72	M33	X	0	0	0	%100
73	MP2	X	0	0	0	%100
74	MP3B	X	0	0	0	%100
75	MP4B	X	0	0	0	%9.3
76	MP5	X	0	0	0	%100
77	MP4	X	0	0	0	%100
78	MP1	X	0	0	0	%100
79	M55	X	0	0	0	%100
80	M56	X	0	0	0	%100
81	MP4B	X	0	0	%30.8	%100
82	MP3	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	M1	Z	-.006	-.006	0	%100
2	M2	Z	-.006	-.006	0	%100
3	M3	Z	-.006	-.006	0	%100
4	M4	Z	-.006	-.006	0	%100
5	M5	Z	-.006	-.006	0	%100
6	M6	Z	-.006	-.006	0	%100
7	M7	Z	-.006	-.006	0	%100
8	M8	Z	-.006	-.006	0	%100
9	M9	Z	-.006	-.006	0	%100
10	M10	Z	-.006	-.006	0	%100
11	M11	Z	-.012	-.012	0	%100
12	M12	Z	-.012	-.012	0	%100
13	M13	Z	-.011	-.011	0	%100
14	M14	Z	-.012	-.012	0	%100
15	M15	Z	-.013	-.013	0	%100
16	M16	Z	-.013	-.013	0	%100
17	M17	Z	-.007	-.007	0	%100
18	M18	Z	-.007	-.007	0	%100
19	M19	Z	-.007	-.007	0	%100
20	M20	Z	-.007	-.007	0	%100
21	M21	Z	-.007	-.007	0	%100
22	M22	Z	-.005	-.005	0	%100
23	M23	Z	-.001	-.001	0	%100
24	M28	Z	-.001	-.001	0	%100
25	M29	Z	-.005	-.005	0	%100
26	M30	Z	-.007	-.007	0	%100
27	M31	Z	-.007	-.007	0	%100
28	M32	Z	-.013	-.013	0	%100
29	M33	Z	-.04	-.04	0	%100
30	MP2	Z	-.005	-.005	0	%15.7
31	MP3B	Z	-.005	-.005	0	%13.5
32	MP4B	Z	-.005	-.005	0	%100
33	MP5	Z	-.005	-.005	0	%7.7
34	MP4	Z	-.005	-.005	0	%6.2
35	MP1	Z	-.005	-.005	0	%8
36	M55	Z	-.015	-.015	0	%100
37	M56	Z	-.004	-.004	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
38	MP2	Z	-.005	-.005	%24.3	%100
39	MP3B	Z	-.005	-.005	%64.5	%100
40	MP5	Z	-.005	-.005	%67.3	%100
41	MP3	Z	-.005	-.005	0	%100
42	MP4	Z	-.005	-.005	%93.8	%100
43	MP1	Z	-.005	-.005	%90.2	%100
44	M1	X	.004	.004	0	%100
45	M2	X	.004	.004	0	%100
46	M3	X	.004	.004	0	%100
47	M4	X	.004	.004	0	%100
48	M5	X	.004	.004	0	%100
49	M6	X	.004	.004	0	%100
50	M7	X	.004	.004	0	%100
51	M8	X	.004	.004	0	%100
52	M9	X	.004	.004	0	%100
53	M10	X	.004	.004	0	%100
54	M11	X	.007	.007	0	%100
55	M12	X	.007	.007	0	%100
56	M13	X	.007	.007	0	%100
57	M14	X	.007	.007	0	%100
58	M15	X	.008	.008	0	%100
59	M16	X	.008	.008	0	%100
60	M17	X	.004	.004	0	%100
61	M18	X	.004	.004	0	%100
62	M19	X	.004	.004	0	%100
63	M20	X	.004	.004	0	%100
64	M21	X	.004	.004	0	%100
65	M22	X	.003	.003	0	%100
66	M23	X	.001	.001	0	%100
67	M28	X	.001	.001	0	%100
68	M29	X	.003	.003	0	%100
69	M30	X	.004	.004	0	%100
70	M31	X	.004	.004	0	%100
71	M32	X	.008	.008	0	%100
72	M33	X	.023	.023	0	%100
73	MP2	X	.003	.003	0	%100
74	MP3B	X	.003	.003	0	%100
75	MP4B	X	.003	.003	0	%9.3
76	MP5	X	.003	.003	0	%100
77	MP4	X	.003	.003	0	%100
78	MP1	X	.003	.003	0	%100
79	M55	X	.008	.008	0	%100
80	M56	X	.002	.002	0	%100
81	MP4B	X	.003	.003	%30.8	%100
82	MP3	X	.003	.003	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	M1	Z	-.001	-.001	0	%100
2	M2	Z	-.001	-.001	0	%100
3	M3	Z	-.001	-.001	0	%100
4	M4	Z	-.001	-.001	0	%100
5	M5	Z	-.001	-.001	0	%100
6	M6	Z	-.001	-.001	0	%100
7	M7	Z	-.001	-.001	0	%100
8	M8	Z	-.001	-.001	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
9	M9	Z	-.001	-.001	0	%100
10	M10	Z	-.001	-.001	0	%100
11	M11	Z	-.006	-.006	0	%100
12	M12	Z	-.006	-.006	0	%100
13	M13	Z	-.004	-.004	0	%100
14	M14	Z	-.006	-.006	0	%100
15	M15	Z	-.008	-.008	0	%100
16	M16	Z	-.008	-.008	0	%100
17	M17	Z	-.011	-.011	0	%100
18	M18	Z	-.011	-.011	0	%100
19	M19	Z	-.011	-.011	0	%100
20	M20	Z	-.011	-.011	0	%100
21	M21	Z	-.011	-.011	0	%100
22	M22	Z	-.006	-.006	0	%100
23	M23	Z	-.002	-.002	0	%100
24	M28	Z	-.001	-.001	0	%100
25	M29	Z	-.005	-.005	0	%100
26	M30	Z	-.009	-.009	0	%100
27	M31	Z	-.009	-.009	0	%100
28	M32	Z	-.008	-.008	0	%100
29	M33	Z	-.023	-.023	0	%100
30	MP2	Z	-.003	-.003	0	%15.7
31	MP3B	Z	-.003	-.003	0	%13.5
32	MP4B	Z	-.003	-.003	0	%100
33	MP5	Z	-.003	-.003	0	%7.7
34	MP4	Z	-.003	-.003	0	%6.2
35	MP1	Z	-.003	-.003	0	%8
36	M55	Z	-.003	-.003	0	%100
37	M56	Z	-.001	-.001	0	%100
38	MP2	Z	-.003	-.003	%24.3	%100
39	MP3B	Z	-.003	-.003	%64.5	%100
40	MP5	Z	-.003	-.003	%67.3	%100
41	MP3	Z	-.003	-.003	0	%100
42	MP4	Z	-.003	-.003	%93.8	%100
43	MP1	Z	-.003	-.003	%90.2	%100
44	M1	X	.002	.002	0	%100
45	M2	X	.002	.002	0	%100
46	M3	X	.002	.002	0	%100
47	M4	X	.002	.002	0	%100
48	M5	X	.002	.002	0	%100
49	M6	X	.002	.002	0	%100
50	M7	X	.002	.002	0	%100
51	M8	X	.002	.002	0	%100
52	M9	X	.002	.002	0	%100
53	M10	X	.002	.002	0	%100
54	M11	X	.01	.01	0	%100
55	M12	X	.01	.01	0	%100
56	M13	X	.008	.008	0	%100
57	M14	X	.01	.01	0	%100
58	M15	X	.013	.013	0	%100
59	M16	X	.013	.013	0	%100
60	M17	X	.02	.02	0	%100
61	M18	X	.02	.02	0	%100
62	M19	X	.02	.02	0	%100
63	M20	X	.02	.02	0	%100
64	M21	X	.02	.02	0	%100
65	M22	X	.011	.011	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
66	M23	X	.004	.004	0	%100
67	M28	X	.001	.001	0	%100
68	M29	X	.008	.008	0	%100
69	M30	X	.015	.015	0	%100
70	M31	X	.015	.015	0	%100
71	M32	X	.013	.013	0	%100
72	M33	X	.04	.04	0	%100
73	MP2	X	.005	.005	0	%100
74	MP3B	X	.005	.005	0	%100
75	MP4B	X	.005	.005	0	%9.3
76	MP5	X	.005	.005	0	%100
77	MP4	X	.005	.005	0	%100
78	MP1	X	.005	.005	0	%100
79	M55	X	.005	.005	0	%100
80	M56	X	.001	.001	0	%100
81	MP4B	X	.005	.005	%30.8	%100
82	MP3	X	.005	.005	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	M1	Z	0	0	0	%100
2	M2	Z	0	0	0	%100
3	M3	Z	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M5	Z	0	0	0	%100
6	M6	Z	0	0	0	%100
7	M7	Z	0	0	0	%100
8	M8	Z	0	0	0	%100
9	M9	Z	0	0	0	%100
10	M10	Z	0	0	0	%100
11	M11	Z	0	0	0	%100
12	M12	Z	0	0	0	%100
13	M13	Z	0	0	0	%100
14	M14	Z	0	0	0	%100
15	M15	Z	0	0	0	%100
16	M16	Z	0	0	0	%100
17	M17	Z	0	0	0	%100
18	M18	Z	0	0	0	%100
19	M19	Z	0	0	0	%100
20	M20	Z	0	0	0	%100
21	M21	Z	0	0	0	%100
22	M22	Z	0	0	0	%100
23	M23	Z	0	0	0	%100
24	M28	Z	0	0	0	%100
25	M29	Z	0	0	0	%100
26	M30	Z	0	0	0	%100
27	M31	Z	0	0	0	%100
28	M32	Z	0	0	0	%100
29	M33	Z	0	0	0	%100
30	MP2	Z	0	0	0	%15.7
31	MP3B	Z	0	0	0	%13.5
32	MP4B	Z	0	0	0	%100
33	MP5	Z	0	0	0	%7.7
34	MP4	Z	0	0	0	%6.2
35	MP1	Z	0	0	0	%8
36	M55	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
37	M56	Z	0	0	0	%100
38	MP2	Z	0	0	%24.3	%100
39	MP3B	Z	0	0	%64.5	%100
40	MP5	Z	0	0	%67.3	%100
41	MP3	Z	0	0	0	%100
42	MP4	Z	0	0	%93.8	%100
43	MP1	Z	0	0	%90.2	%100
44	M1	X	0	0	0	%100
45	M2	X	0	0	0	%100
46	M3	X	0	0	0	%100
47	M4	X	0	0	0	%100
48	M5	X	0	0	0	%100
49	M6	X	0	0	0	%100
50	M7	X	0	0	0	%100
51	M8	X	0	0	0	%100
52	M9	X	0	0	0	%100
53	M10	X	0	0	0	%100
54	M11	X	.011	.011	0	%100
55	M12	X	.011	.011	0	%100
56	M13	X	.007	.007	0	%100
57	M14	X	.011	.011	0	%100
58	M15	X	.015	.015	0	%100
59	M16	X	.015	.015	0	%100
60	M17	X	.03	.03	0	%100
61	M18	X	.03	.03	0	%100
62	M19	X	.03	.03	0	%100
63	M20	X	.03	.03	0	%100
64	M21	X	.03	.03	0	%100
65	M22	X	.016	.016	0	%100
66	M23	X	.009	.009	0	%100
67	M28	X	.005	.005	0	%100
68	M29	X	.009	.009	0	%100
69	M30	X	.023	.023	0	%100
70	M31	X	.023	.023	0	%100
71	M32	X	.015	.015	0	%100
72	M33	X	.046	.046	0	%100
73	MP2	X	.005	.005	0	%100
74	MP3B	X	.005	.005	0	%100
75	MP4B	X	.005	.005	0	%9.3
76	MP5	X	.005	.005	0	%100
77	MP4	X	.005	.005	0	%100
78	MP1	X	.005	.005	0	%100
79	M55	X	0	0	0	%100
80	M56	X	0	0	0	%100
81	MP4B	X	.005	.005	%30.8	%100
82	MP3	X	.005	.005	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	M1	Z	.001	.001	0	%100
2	M2	Z	.001	.001	0	%100
3	M3	Z	.001	.001	0	%100
4	M4	Z	.001	.001	0	%100
5	M5	Z	.001	.001	0	%100
6	M6	Z	.001	.001	0	%100
7	M7	Z	.001	.001	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
8	M8	Z	.001	.001	0	%100
9	M9	Z	.001	.001	0	%100
10	M10	Z	.001	.001	0	%100
11	M11	Z	.006	.006	0	%100
12	M12	Z	.006	.006	0	%100
13	M13	Z	.004	.004	0	%100
14	M14	Z	.006	.006	0	%100
15	M15	Z	.008	.008	0	%100
16	M16	Z	.008	.008	0	%100
17	M17	Z	.011	.011	0	%100
18	M18	Z	.011	.011	0	%100
19	M19	Z	.011	.011	0	%100
20	M20	Z	.011	.011	0	%100
21	M21	Z	.011	.011	0	%100
22	M22	Z	.006	.006	0	%100
23	M23	Z	.005	.005	0	%100
24	M28	Z	.004	.004	0	%100
25	M29	Z	.002	.002	0	%100
26	M30	Z	.009	.009	0	%100
27	M31	Z	.009	.009	0	%100
28	M32	Z	.008	.008	0	%100
29	M33	Z	.023	.023	0	%100
30	MP2	Z	.003	.003	0	%15.7
31	MP3B	Z	.003	.003	0	%13.5
32	MP4B	Z	.003	.003	0	%100
33	MP5	Z	.003	.003	0	%7.7
34	MP4	Z	.003	.003	0	%6.2
35	MP1	Z	.003	.003	0	%8
36	M55	Z	.003	.003	0	%100
37	M56	Z	.001	.001	0	%100
38	MP2	Z	.003	.003	%24.3	%100
39	MP3B	Z	.003	.003	%64.5	%100
40	MP5	Z	.003	.003	%67.3	%100
41	MP3	Z	.003	.003	0	%100
42	MP4	Z	.003	.003	%93.8	%100
43	MP1	Z	.003	.003	%90.2	%100
44	M1	X	.002	.002	0	%100
45	M2	X	.002	.002	0	%100
46	M3	X	.002	.002	0	%100
47	M4	X	.002	.002	0	%100
48	M5	X	.002	.002	0	%100
49	M6	X	.002	.002	0	%100
50	M7	X	.002	.002	0	%100
51	M8	X	.002	.002	0	%100
52	M9	X	.002	.002	0	%100
53	M10	X	.002	.002	0	%100
54	M11	X	.01	.01	0	%100
55	M12	X	.01	.01	0	%100
56	M13	X	.008	.008	0	%100
57	M14	X	.01	.01	0	%100
58	M15	X	.013	.013	0	%100
59	M16	X	.013	.013	0	%100
60	M17	X	.02	.02	0	%100
61	M18	X	.02	.02	0	%100
62	M19	X	.02	.02	0	%100
63	M20	X	.02	.02	0	%100
64	M21	X	.02	.02	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
65	M22	X	.011	.011	0	%100
66	M23	X	.008	.008	0	%100
67	M28	X	.008	.008	0	%100
68	M29	X	.004	.004	0	%100
69	M30	X	.015	.015	0	%100
70	M31	X	.015	.015	0	%100
71	M32	X	.013	.013	0	%100
72	M33	X	.04	.04	0	%100
73	MP2	X	.005	.005	0	%100
74	MP3B	X	.005	.005	0	%100
75	MP4B	X	.005	.005	0	%9.3
76	MP5	X	.005	.005	0	%100
77	MP4	X	.005	.005	0	%100
78	MP1	X	.005	.005	0	%100
79	M55	X	.005	.005	0	%100
80	M56	X	.001	.001	0	%100
81	MP4B	X	.005	.005	%30.8	%100
82	MP3	X	.005	.005	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	M1	Z	.006	.006	0	%100
2	M2	Z	.006	.006	0	%100
3	M3	Z	.006	.006	0	%100
4	M4	Z	.006	.006	0	%100
5	M5	Z	.006	.006	0	%100
6	M6	Z	.006	.006	0	%100
7	M7	Z	.006	.006	0	%100
8	M8	Z	.006	.006	0	%100
9	M9	Z	.006	.006	0	%100
10	M10	Z	.006	.006	0	%100
11	M11	Z	.012	.012	0	%100
12	M12	Z	.012	.012	0	%100
13	M13	Z	.011	.011	0	%100
14	M14	Z	.012	.012	0	%100
15	M15	Z	.013	.013	0	%100
16	M16	Z	.013	.013	0	%100
17	M17	Z	.007	.007	0	%100
18	M18	Z	.007	.007	0	%100
19	M19	Z	.007	.007	0	%100
20	M20	Z	.007	.007	0	%100
21	M21	Z	.007	.007	0	%100
22	M22	Z	.005	.005	0	%100
23	M23	Z	.005	.005	0	%100
24	M28	Z	.008	.008	0	%100
25	M29	Z	.001	.001	0	%100
26	M30	Z	.007	.007	0	%100
27	M31	Z	.007	.007	0	%100
28	M32	Z	.013	.013	0	%100
29	M33	Z	.04	.04	0	%100
30	MP2	Z	.005	.005	0	%15.7
31	MP3B	Z	.005	.005	0	%13.5
32	MP4B	Z	.005	.005	0	%100
33	MP5	Z	.005	.005	0	%7.7
34	MP4	Z	.005	.005	0	%6.2
35	MP1	Z	.005	.005	0	%8

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
36	M55	Z	.015	.015	0	%100
37	M56	Z	.004	.004	0	%100
38	MP2	Z	.005	.005	%24.3	%100
39	MP3B	Z	.005	.005	%64.5	%100
40	MP5	Z	.005	.005	%67.3	%100
41	MP3	Z	.005	.005	0	%100
42	MP4	Z	.005	.005	%93.8	%100
43	MP1	Z	.005	.005	%90.2	%100
44	M1	X	.004	.004	0	%100
45	M2	X	.004	.004	0	%100
46	M3	X	.004	.004	0	%100
47	M4	X	.004	.004	0	%100
48	M5	X	.004	.004	0	%100
49	M6	X	.004	.004	0	%100
50	M7	X	.004	.004	0	%100
51	M8	X	.004	.004	0	%100
52	M9	X	.004	.004	0	%100
53	M10	X	.004	.004	0	%100
54	M11	X	.007	.007	0	%100
55	M12	X	.007	.007	0	%100
56	M13	X	.007	.007	0	%100
57	M14	X	.007	.007	0	%100
58	M15	X	.008	.008	0	%100
59	M16	X	.008	.008	0	%100
60	M17	X	.004	.004	0	%100
61	M18	X	.004	.004	0	%100
62	M19	X	.004	.004	0	%100
63	M20	X	.004	.004	0	%100
64	M21	X	.004	.004	0	%100
65	M22	X	.003	.003	0	%100
66	M23	X	.003	.003	0	%100
67	M28	X	.004	.004	0	%100
68	M29	X	.001	.001	0	%100
69	M30	X	.004	.004	0	%100
70	M31	X	.004	.004	0	%100
71	M32	X	.008	.008	0	%100
72	M33	X	.023	.023	0	%100
73	MP2	X	.003	.003	0	%100
74	MP3B	X	.003	.003	0	%100
75	MP4B	X	.003	.003	0	%9.3
76	MP5	X	.003	.003	0	%100
77	MP4	X	.003	.003	0	%100
78	MP1	X	.003	.003	0	%100
79	M55	X	.008	.008	0	%100
80	M56	X	.002	.002	0	%100
81	MP4B	X	.003	.003	%30.8	%100
82	MP3	X	.003	.003	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	M1	Z	-.001	-.001	0	%100
2	M2	Z	-.001	-.001	0	%100
3	M3	Z	-.001	-.001	0	%100
4	M4	Z	-.001	-.001	0	%100
5	M5	Z	-.001	-.001	0	%100
6	M6	Z	-.001	-.001	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
7	M7	Z	-.001	-.001	0	%100
8	M8	Z	-.001	-.001	0	%100
9	M9	Z	-.001	-.001	0	%100
10	M10	Z	-.001	-.001	0	%100
11	M11	Z	-.002	-.002	0	%100
12	M12	Z	-.002	-.002	0	%100
13	M13	Z	-.002	-.002	0	%100
14	M14	Z	-.002	-.002	0	%100
15	M15	Z	-.002	-.002	0	%100
16	M16	Z	-.002	-.002	0	%100
17	M17	Z	0	0	0	%100
18	M18	Z	0	0	0	%100
19	M19	Z	0	0	0	%100
20	M20	Z	0	0	0	%100
21	M21	Z	0	0	0	%100
22	M22	Z	0	0	0	%100
23	M23	Z	0	0	0	%100
24	M28	Z	-.001	-.001	0	%100
25	M29	Z	0	0	0	%100
26	M30	Z	0	0	0	%100
27	M31	Z	0	0	0	%100
28	M32	Z	-.002	-.002	0	%100
29	M33	Z	-.005	-.005	0	%100
30	M34	Z	0	0	0	%100
31	M35	Z	0	0	0	%100
32	M36	Z	0	0	0	%100
33	M37	Z	0	0	0	%100
34	M38	Z	0	0	0	%100
35	M39	Z	0	0	0	%100
36	M40	Z	0	0	0	%100
37	M41	Z	0	0	0	%100
38	MP2	Z	-.001	-.001	0	%15.7
39	MP3B	Z	-.001	-.001	0	%13.5
40	MP4B	Z	-.001	-.001	0	%100
41	MP5	Z	-.001	-.001	0	%7.7
42	MP4	Z	-.001	-.001	0	%6.2
43	M48	Z	0	0	0	%100
44	M49	Z	0	0	0	%100
45	M50	Z	0	0	0	%100
46	M51	Z	0	0	0	%100
47	M52	Z	-.001	-.001	0	%100
48	M53	Z	-.001	-.001	0	%100
49	MP1	Z	-.001	-.001	0	%8
50	M55	Z	-.003	-.003	0	%100
51	M56	Z	-.001	-.001	0	%100
52	M57	Z	0	0	0	%100
53	M58	Z	0	0	0	%100
54	M59	Z	0	0	0	%100
55	M60	Z	0	0	0	%100
56	MP2	Z	-.001	-.001	%24.3	%100
57	MP3B	Z	-.001	-.001	%64.5	%100
58	MP5	Z	-.001	-.001	%67.3	%100
59	MP3	Z	-.001	-.001	0	%100
60	MP4	Z	-.001	-.001	%93.8	%100
61	MP1	Z	-.001	-.001	%90.2	%100
62	M1	X	0	0	0	%100
63	M2	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
64	M3	X	0	0	0	%100
65	M4	X	0	0	0	%100
66	M5	X	0	0	0	%100
67	M6	X	0	0	0	%100
68	M7	X	0	0	0	%100
69	M8	X	0	0	0	%100
70	M9	X	0	0	0	%100
71	M10	X	0	0	0	%100
72	M11	X	0	0	0	%100
73	M12	X	0	0	0	%100
74	M13	X	0	0	0	%100
75	M14	X	0	0	0	%100
76	M15	X	0	0	0	%100
77	M16	X	0	0	0	%100
78	M17	X	0	0	0	%100
79	M18	X	0	0	0	%100
80	M19	X	0	0	0	%100
81	M20	X	0	0	0	%100
82	M21	X	0	0	0	%100
83	M22	X	0	0	0	%100
84	M23	X	0	0	0	%100
85	M28	X	0	0	0	%100
86	M29	X	0	0	0	%100
87	M30	X	0	0	0	%100
88	M31	X	0	0	0	%100
89	M32	X	0	0	0	%100
90	M33	X	0	0	0	%100
91	M34	X	0	0	0	%100
92	M35	X	0	0	0	%100
93	M36	X	0	0	0	%100
94	M37	X	0	0	0	%100
95	M38	X	0	0	0	%100
96	M39	X	0	0	0	%100
97	M40	X	0	0	0	%100
98	M41	X	0	0	0	%100
99	MP2	X	0	0	0	%100
100	MP3B	X	0	0	0	%100
101	MP4B	X	0	0	0	%9.3
102	MP5	X	0	0	0	%100
103	MP4	X	0	0	0	%100
104	M48	X	0	0	0	%100
105	M49	X	0	0	0	%100
106	M50	X	0	0	0	%100
107	M51	X	0	0	0	%100
108	M52	X	0	0	0	%100
109	M53	X	0	0	0	%100
110	MP1	X	0	0	0	%100
111	M55	X	0	0	0	%100
112	M56	X	0	0	0	%100
113	M57	X	0	0	0	%100
114	M58	X	0	0	0	%100
115	M59	X	0	0	0	%100
116	M60	X	0	0	0	%100
117	MP4B	X	0	0	%30.8	%100
118	MP3	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	M1	Z	-.001	-.001	0	%100
2	M2	Z	-.001	-.001	0	%100
3	M3	Z	-.001	-.001	0	%100
4	M4	Z	-.001	-.001	0	%100
5	M5	Z	-.001	-.001	0	%100
6	M6	Z	-.001	-.001	0	%100
7	M7	Z	-.001	-.001	0	%100
8	M8	Z	-.001	-.001	0	%100
9	M9	Z	-.001	-.001	0	%100
10	M10	Z	-.001	-.001	0	%100
11	M11	Z	-.002	-.002	0	%100
12	M12	Z	-.002	-.002	0	%100
13	M13	Z	-.001	-.001	0	%100
14	M14	Z	-.002	-.002	0	%100
15	M15	Z	-.002	-.002	0	%100
16	M16	Z	-.002	-.002	0	%100
17	M17	Z	-.001	-.001	0	%100
18	M18	Z	-.001	-.001	0	%100
19	M19	Z	-.001	-.001	0	%100
20	M20	Z	-.001	-.001	0	%100
21	M21	Z	-.001	-.001	0	%100
22	M22	Z	-.001	-.001	0	%100
23	M23	Z	0	0	0	%100
24	M28	Z	0	0	0	%100
25	M29	Z	-.001	-.001	0	%100
26	M30	Z	-.001	-.001	0	%100
27	M31	Z	-.001	-.001	0	%100
28	M32	Z	-.002	-.002	0	%100
29	M33	Z	-.004	-.004	0	%100
30	M34	Z	0	0	0	%100
31	M35	Z	0	0	0	%100
32	M36	Z	0	0	0	%100
33	M37	Z	0	0	0	%100
34	M38	Z	0	0	0	%100
35	M39	Z	0	0	0	%100
36	M40	Z	0	0	0	%100
37	M41	Z	0	0	0	%100
38	MP2	Z	-.001	-.001	0	%15.7
39	MP3B	Z	-.001	-.001	0	%13.5
40	MP4B	Z	-.001	-.001	0	%100
41	MP5	Z	-.001	-.001	0	%7.7
42	MP4	Z	-.001	-.001	0	%6.2
43	M48	Z	0	0	0	%100
44	M49	Z	0	0	0	%100
45	M50	Z	0	0	0	%100
46	M51	Z	0	0	0	%100
47	M52	Z	-.001	-.001	0	%100
48	M53	Z	-.001	-.001	0	%100
49	MP1	Z	-.001	-.001	0	%8
50	M55	Z	-.002	-.002	0	%100
51	M56	Z	-.001	-.001	0	%100
52	M57	Z	0	0	0	%100
53	M58	Z	0	0	0	%100
54	M59	Z	0	0	0	%100
55	M60	Z	0	0	0	%100
56	MP2	Z	-.001	-.001	%24.3	%100
57	MP3B	Z	-.001	-.001	%64.5	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
58	MP5	Z	-.001	-.001	%67.3	%100
59	MP3	Z	-.001	-.001	0	%100
60	MP4	Z	-.001	-.001	%93.8	%100
61	MP1	Z	-.001	-.001	%90.2	%100
62	M1	X	.001	.001	0	%100
63	M2	X	.001	.001	0	%100
64	M3	X	.001	.001	0	%100
65	M4	X	.001	.001	0	%100
66	M5	X	.001	.001	0	%100
67	M6	X	.001	.001	0	%100
68	M7	X	.001	.001	0	%100
69	M8	X	.001	.001	0	%100
70	M9	X	.001	.001	0	%100
71	M10	X	.001	.001	0	%100
72	M11	X	.001	.001	0	%100
73	M12	X	.001	.001	0	%100
74	M13	X	.001	.001	0	%100
75	M14	X	.001	.001	0	%100
76	M15	X	.001	.001	0	%100
77	M16	X	.001	.001	0	%100
78	M17	X	0	0	0	%100
79	M18	X	0	0	0	%100
80	M19	X	0	0	0	%100
81	M20	X	0	0	0	%100
82	M21	X	0	0	0	%100
83	M22	X	0	0	0	%100
84	M23	X	0	0	0	%100
85	M28	X	0	0	0	%100
86	M29	X	0	0	0	%100
87	M30	X	0	0	0	%100
88	M31	X	0	0	0	%100
89	M32	X	.001	.001	0	%100
90	M33	X	.002	.002	0	%100
91	M34	X	0	0	0	%100
92	M35	X	0	0	0	%100
93	M36	X	0	0	0	%100
94	M37	X	0	0	0	%100
95	M38	X	0	0	0	%100
96	M39	X	0	0	0	%100
97	M40	X	0	0	0	%100
98	M41	X	0	0	0	%100
99	MP2	X	0	0	0	%100
100	MP3B	X	0	0	0	%100
101	MP4B	X	0	0	0	%9.3
102	MP5	X	0	0	0	%100
103	MP4	X	0	0	0	%100
104	M48	X	0	0	0	%100
105	M49	X	0	0	0	%100
106	M50	X	0	0	0	%100
107	M51	X	0	0	0	%100
108	M52	X	0	0	0	%100
109	M53	X	0	0	0	%100
110	MP1	X	0	0	0	%100
111	M55	X	.001	.001	0	%100
112	M56	X	0	0	0	%100
113	M57	X	0	0	0	%100
114	M58	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
115	M59	X	0	0	0	%100
116	M60	X	0	0	0	%100
117	MP4B	X	0	0	%30.8	%100
118	MP3	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	M1	Z	0	0	0	%100
2	M2	Z	0	0	0	%100
3	M3	Z	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M5	Z	0	0	0	%100
6	M6	Z	0	0	0	%100
7	M7	Z	0	0	0	%100
8	M8	Z	0	0	0	%100
9	M9	Z	0	0	0	%100
10	M10	Z	0	0	0	%100
11	M11	Z	-.001	-.001	0	%100
12	M12	Z	-.001	-.001	0	%100
13	M13	Z	-.001	-.001	0	%100
14	M14	Z	-.001	-.001	0	%100
15	M15	Z	-.001	-.001	0	%100
16	M16	Z	-.001	-.001	0	%100
17	M17	Z	-.001	-.001	0	%100
18	M18	Z	-.001	-.001	0	%100
19	M19	Z	-.001	-.001	0	%100
20	M20	Z	-.001	-.001	0	%100
21	M21	Z	-.001	-.001	0	%100
22	M22	Z	-.001	-.001	0	%100
23	M23	Z	0	0	0	%100
24	M28	Z	0	0	0	%100
25	M29	Z	-.001	-.001	0	%100
26	M30	Z	-.001	-.001	0	%100
27	M31	Z	-.001	-.001	0	%100
28	M32	Z	-.001	-.001	0	%100
29	M33	Z	-.002	-.002	0	%100
30	M34	Z	0	0	0	%100
31	M35	Z	0	0	0	%100
32	M36	Z	0	0	0	%100
33	M37	Z	0	0	0	%100
34	M38	Z	0	0	0	%100
35	M39	Z	0	0	0	%100
36	M40	Z	0	0	0	%100
37	M41	Z	0	0	0	%100
38	MP2	Z	0	0	0	%15.7
39	MP3B	Z	0	0	0	%13.5
40	MP4B	Z	0	0	0	%100
41	MP5	Z	0	0	0	%7.7
42	MP4	Z	0	0	0	%6.2
43	M48	Z	0	0	0	%100
44	M49	Z	0	0	0	%100
45	M50	Z	0	0	0	%100
46	M51	Z	0	0	0	%100
47	M52	Z	0	0	0	%100
48	M53	Z	0	0	0	%100
49	MP1	Z	0	0	0	%8

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
50	M55	Z	0	0	0	%100
51	M56	Z	0	0	0	%100
52	M57	Z	0	0	0	%100
53	M58	Z	0	0	0	%100
54	M59	Z	0	0	0	%100
55	M60	Z	0	0	0	%100
56	MP2	Z	0	0	%24.3	%100
57	MP3B	Z	0	0	%64.5	%100
58	MP5	Z	0	0	%67.3	%100
59	MP3	Z	0	0	0	%100
60	MP4	Z	0	0	%93.8	%100
61	MP1	Z	0	0	%90.2	%100
62	M1	X	.001	.001	0	%100
63	M2	X	.001	.001	0	%100
64	M3	X	.001	.001	0	%100
65	M4	X	.001	.001	0	%100
66	M5	X	.001	.001	0	%100
67	M6	X	.001	.001	0	%100
68	M7	X	.001	.001	0	%100
69	M8	X	.001	.001	0	%100
70	M9	X	.001	.001	0	%100
71	M10	X	.001	.001	0	%100
72	M11	X	.001	.001	0	%100
73	M12	X	.001	.001	0	%100
74	M13	X	.001	.001	0	%100
75	M14	X	.001	.001	0	%100
76	M15	X	.002	.002	0	%100
77	M16	X	.002	.002	0	%100
78	M17	X	.002	.002	0	%100
79	M18	X	.002	.002	0	%100
80	M19	X	.002	.002	0	%100
81	M20	X	.002	.002	0	%100
82	M21	X	.002	.002	0	%100
83	M22	X	.001	.001	0	%100
84	M23	X	.001	.001	0	%100
85	M28	X	0	0	0	%100
86	M29	X	.001	.001	0	%100
87	M30	X	.002	.002	0	%100
88	M31	X	.002	.002	0	%100
89	M32	X	.002	.002	0	%100
90	M33	X	.004	.004	0	%100
91	M34	X	0	0	0	%100
92	M35	X	0	0	0	%100
93	M36	X	0	0	0	%100
94	M37	X	0	0	0	%100
95	M38	X	0	0	0	%100
96	M39	X	0	0	0	%100
97	M40	X	0	0	0	%100
98	M41	X	0	0	0	%100
99	MP2	X	.001	.001	0	%100
100	MP3B	X	.001	.001	0	%100
101	MP4B	X	.001	.001	0	%9.3
102	MP5	X	.001	.001	0	%100
103	MP4	X	.001	.001	0	%100
104	M48	X	0	0	0	%100
105	M49	X	0	0	0	%100
106	M50	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
107	M51	X	0	0	0	%100
108	M52	X	.001	.001	0	%100
109	M53	X	.001	.001	0	%100
110	MP1	X	.001	.001	0	%100
111	M55	X	.001	.001	0	%100
112	M56	X	0	0	0	%100
113	M57	X	0	0	0	%100
114	M58	X	0	0	0	%100
115	M59	X	0	0	0	%100
116	M60	X	0	0	0	%100
117	MP4B	X	.001	.001	%30.8	%100
118	MP3	X	.001	.001	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	M1	Z	0	0	0	%100
2	M2	Z	0	0	0	%100
3	M3	Z	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M5	Z	0	0	0	%100
6	M6	Z	0	0	0	%100
7	M7	Z	0	0	0	%100
8	M8	Z	0	0	0	%100
9	M9	Z	0	0	0	%100
10	M10	Z	0	0	0	%100
11	M11	Z	0	0	0	%100
12	M12	Z	0	0	0	%100
13	M13	Z	0	0	0	%100
14	M14	Z	0	0	0	%100
15	M15	Z	0	0	0	%100
16	M16	Z	0	0	0	%100
17	M17	Z	0	0	0	%100
18	M18	Z	0	0	0	%100
19	M19	Z	0	0	0	%100
20	M20	Z	0	0	0	%100
21	M21	Z	0	0	0	%100
22	M22	Z	0	0	0	%100
23	M23	Z	0	0	0	%100
24	M28	Z	0	0	0	%100
25	M29	Z	0	0	0	%100
26	M30	Z	0	0	0	%100
27	M31	Z	0	0	0	%100
28	M32	Z	0	0	0	%100
29	M33	Z	0	0	0	%100
30	M34	Z	0	0	0	%100
31	M35	Z	0	0	0	%100
32	M36	Z	0	0	0	%100
33	M37	Z	0	0	0	%100
34	M38	Z	0	0	0	%100
35	M39	Z	0	0	0	%100
36	M40	Z	0	0	0	%100
37	M41	Z	0	0	0	%100
38	MP2	Z	0	0	0	%15.7
39	MP3B	Z	0	0	0	%13.5
40	MP4B	Z	0	0	0	%100
41	MP5	Z	0	0	0	%7.7

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
42	MP4	Z	0	0	0	%6.2
43	M48	Z	0	0	0	%100
44	M49	Z	0	0	0	%100
45	M50	Z	0	0	0	%100
46	M51	Z	0	0	0	%100
47	M52	Z	0	0	0	%100
48	M53	Z	0	0	0	%100
49	MP1	Z	0	0	0	%8
50	M55	Z	0	0	0	%100
51	M56	Z	0	0	0	%100
52	M57	Z	0	0	0	%100
53	M58	Z	0	0	0	%100
54	M59	Z	0	0	0	%100
55	M60	Z	0	0	0	%100
56	MP2	Z	0	0	%24.3	%100
57	MP3B	Z	0	0	%64.5	%100
58	MP5	Z	0	0	%67.3	%100
59	MP3	Z	0	0	0	%100
60	MP4	Z	0	0	%93.8	%100
61	MP1	Z	0	0	%90.2	%100
62	M1	X	0	0	0	%100
63	M2	X	0	0	0	%100
64	M3	X	0	0	0	%100
65	M4	X	0	0	0	%100
66	M5	X	0	0	0	%100
67	M6	X	0	0	0	%100
68	M7	X	0	0	0	%100
69	M8	X	0	0	0	%100
70	M9	X	0	0	0	%100
71	M10	X	0	0	0	%100
72	M11	X	.001	.001	0	%100
73	M12	X	.001	.001	0	%100
74	M13	X	.001	.001	0	%100
75	M14	X	.001	.001	0	%100
76	M15	X	.002	.002	0	%100
77	M16	X	.002	.002	0	%100
78	M17	X	.003	.003	0	%100
79	M18	X	.003	.003	0	%100
80	M19	X	.003	.003	0	%100
81	M20	X	.003	.003	0	%100
82	M21	X	.003	.003	0	%100
83	M22	X	.002	.002	0	%100
84	M23	X	.001	.001	0	%100
85	M28	X	.001	.001	0	%100
86	M29	X	.001	.001	0	%100
87	M30	X	.003	.003	0	%100
88	M31	X	.003	.003	0	%100
89	M32	X	.002	.002	0	%100
90	M33	X	.005	.005	0	%100
91	M34	X	0	0	0	%100
92	M35	X	0	0	0	%100
93	M36	X	0	0	0	%100
94	M37	X	0	0	0	%100
95	M38	X	0	0	0	%100
96	M39	X	0	0	0	%100
97	M40	X	0	0	0	%100
98	M41	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
99	MP2	X	.001	.001	0	%100
100	MP3B	X	.001	.001	0	%100
101	MP4B	X	.001	.001	0	%9.3
102	MP5	X	.001	.001	0	%100
103	MP4	X	.001	.001	0	%100
104	M48	X	0	0	0	%100
105	M49	X	0	0	0	%100
106	M50	X	0	0	0	%100
107	M51	X	0	0	0	%100
108	M52	X	.001	.001	0	%100
109	M53	X	.001	.001	0	%100
110	MP1	X	.001	.001	0	%100
111	M55	X	0	0	0	%100
112	M56	X	0	0	0	%100
113	M57	X	0	0	0	%100
114	M58	X	0	0	0	%100
115	M59	X	0	0	0	%100
116	M60	X	0	0	0	%100
117	MP4B	X	.001	.001	%30.8	%100
118	MP3	X	.001	.001	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	M1	Z	0	0	0	%100
2	M2	Z	0	0	0	%100
3	M3	Z	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M5	Z	0	0	0	%100
6	M6	Z	0	0	0	%100
7	M7	Z	0	0	0	%100
8	M8	Z	0	0	0	%100
9	M9	Z	0	0	0	%100
10	M10	Z	0	0	0	%100
11	M11	Z	.001	.001	0	%100
12	M12	Z	.001	.001	0	%100
13	M13	Z	.001	.001	0	%100
14	M14	Z	.001	.001	0	%100
15	M15	Z	.001	.001	0	%100
16	M16	Z	.001	.001	0	%100
17	M17	Z	.001	.001	0	%100
18	M18	Z	.001	.001	0	%100
19	M19	Z	.001	.001	0	%100
20	M20	Z	.001	.001	0	%100
21	M21	Z	.001	.001	0	%100
22	M22	Z	.001	.001	0	%100
23	M23	Z	.001	.001	0	%100
24	M28	Z	.001	.001	0	%100
25	M29	Z	0	0	0	%100
26	M30	Z	.001	.001	0	%100
27	M31	Z	.001	.001	0	%100
28	M32	Z	.001	.001	0	%100
29	M33	Z	.002	.002	0	%100
30	M34	Z	0	0	0	%100
31	M35	Z	0	0	0	%100
32	M36	Z	0	0	0	%100
33	M37	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
34	M38	Z	0	0	0	%100
35	M39	Z	0	0	0	%100
36	M40	Z	0	0	0	%100
37	M41	Z	0	0	0	%100
38	MP2	Z	0	0	0	%15.7
39	MP3B	Z	0	0	0	%13.5
40	MP4B	Z	0	0	0	%100
41	MP5	Z	0	0	0	%7.7
42	MP4	Z	0	0	0	%6.2
43	M48	Z	0	0	0	%100
44	M49	Z	0	0	0	%100
45	M50	Z	0	0	0	%100
46	M51	Z	0	0	0	%100
47	M52	Z	0	0	0	%100
48	M53	Z	0	0	0	%100
49	MP1	Z	0	0	0	%8
50	M55	Z	0	0	0	%100
51	M56	Z	0	0	0	%100
52	M57	Z	0	0	0	%100
53	M58	Z	0	0	0	%100
54	M59	Z	0	0	0	%100
55	M60	Z	0	0	0	%100
56	MP2	Z	0	0	%24.3	%100
57	MP3B	Z	0	0	%64.5	%100
58	MP5	Z	0	0	%67.3	%100
59	MP3	Z	0	0	0	%100
60	MP4	Z	0	0	%93.8	%100
61	MP1	Z	0	0	%90.2	%100
62	M1	X	.001	.001	0	%100
63	M2	X	.001	.001	0	%100
64	M3	X	.001	.001	0	%100
65	M4	X	.001	.001	0	%100
66	M5	X	.001	.001	0	%100
67	M6	X	.001	.001	0	%100
68	M7	X	.001	.001	0	%100
69	M8	X	.001	.001	0	%100
70	M9	X	.001	.001	0	%100
71	M10	X	.001	.001	0	%100
72	M11	X	.001	.001	0	%100
73	M12	X	.001	.001	0	%100
74	M13	X	.001	.001	0	%100
75	M14	X	.001	.001	0	%100
76	M15	X	.002	.002	0	%100
77	M16	X	.002	.002	0	%100
78	M17	X	.002	.002	0	%100
79	M18	X	.002	.002	0	%100
80	M19	X	.002	.002	0	%100
81	M20	X	.002	.002	0	%100
82	M21	X	.002	.002	0	%100
83	M22	X	.001	.001	0	%100
84	M23	X	.001	.001	0	%100
85	M28	X	.001	.001	0	%100
86	M29	X	.001	.001	0	%100
87	M30	X	.002	.002	0	%100
88	M31	X	.002	.002	0	%100
89	M32	X	.002	.002	0	%100
90	M33	X	.004	.004	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
91	M34	X	0	0	0	%100
92	M35	X	0	0	0	%100
93	M36	X	0	0	0	%100
94	M37	X	0	0	0	%100
95	M38	X	0	0	0	%100
96	M39	X	0	0	0	%100
97	M40	X	0	0	0	%100
98	M41	X	0	0	0	%100
99	MP2	X	.001	.001	0	%100
100	MP3B	X	.001	.001	0	%100
101	MP4B	X	.001	.001	0	%9.3
102	MP5	X	.001	.001	0	%100
103	MP4	X	.001	.001	0	%100
104	M48	X	0	0	0	%100
105	M49	X	0	0	0	%100
106	M50	X	0	0	0	%100
107	M51	X	0	0	0	%100
108	M52	X	.001	.001	0	%100
109	M53	X	.001	.001	0	%100
110	MP1	X	.001	.001	0	%100
111	M55	X	.001	.001	0	%100
112	M56	X	0	0	0	%100
113	M57	X	0	0	0	%100
114	M58	X	0	0	0	%100
115	M59	X	0	0	0	%100
116	M60	X	0	0	0	%100
117	MP4B	X	.001	.001	%30.8	%100
118	MP3	X	.001	.001	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	M1	Z	.001	.001	0	%100
2	M2	Z	.001	.001	0	%100
3	M3	Z	.001	.001	0	%100
4	M4	Z	.001	.001	0	%100
5	M5	Z	.001	.001	0	%100
6	M6	Z	.001	.001	0	%100
7	M7	Z	.001	.001	0	%100
8	M8	Z	.001	.001	0	%100
9	M9	Z	.001	.001	0	%100
10	M10	Z	.001	.001	0	%100
11	M11	Z	.002	.002	0	%100
12	M12	Z	.002	.002	0	%100
13	M13	Z	.001	.001	0	%100
14	M14	Z	.002	.002	0	%100
15	M15	Z	.002	.002	0	%100
16	M16	Z	.002	.002	0	%100
17	M17	Z	.001	.001	0	%100
18	M18	Z	.001	.001	0	%100
19	M19	Z	.001	.001	0	%100
20	M20	Z	.001	.001	0	%100
21	M21	Z	.001	.001	0	%100
22	M22	Z	.001	.001	0	%100
23	M23	Z	.001	.001	0	%100
24	M28	Z	.001	.001	0	%100
25	M29	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
26	M30	Z	.001	.001	0	%100
27	M31	Z	.001	.001	0	%100
28	M32	Z	.002	.002	0	%100
29	M33	Z	.004	.004	0	%100
30	M34	Z	0	0	0	%100
31	M35	Z	0	0	0	%100
32	M36	Z	0	0	0	%100
33	M37	Z	0	0	0	%100
34	M38	Z	0	0	0	%100
35	M39	Z	0	0	0	%100
36	M40	Z	0	0	0	%100
37	M41	Z	0	0	0	%100
38	MP2	Z	.001	.001	0	%15.7
39	MP3B	Z	.001	.001	0	%13.5
40	MP4B	Z	.001	.001	0	%100
41	MP5	Z	.001	.001	0	%7.7
42	MP4	Z	.001	.001	0	%6.2
43	M48	Z	0	0	0	%100
44	M49	Z	0	0	0	%100
45	M50	Z	0	0	0	%100
46	M51	Z	0	0	0	%100
47	M52	Z	.001	.001	0	%100
48	M53	Z	.001	.001	0	%100
49	MP1	Z	.001	.001	0	%8
50	M55	Z	.002	.002	0	%100
51	M56	Z	.001	.001	0	%100
52	M57	Z	0	0	0	%100
53	M58	Z	0	0	0	%100
54	M59	Z	0	0	0	%100
55	M60	Z	0	0	0	%100
56	MP2	Z	.001	.001	%24.3	%100
57	MP3B	Z	.001	.001	%64.5	%100
58	MP5	Z	.001	.001	%67.3	%100
59	MP3	Z	.001	.001	0	%100
60	MP4	Z	.001	.001	%93.8	%100
61	MP1	Z	.001	.001	%90.2	%100
62	M1	X	.001	.001	0	%100
63	M2	X	.001	.001	0	%100
64	M3	X	.001	.001	0	%100
65	M4	X	.001	.001	0	%100
66	M5	X	.001	.001	0	%100
67	M6	X	.001	.001	0	%100
68	M7	X	.001	.001	0	%100
69	M8	X	.001	.001	0	%100
70	M9	X	.001	.001	0	%100
71	M10	X	.001	.001	0	%100
72	M11	X	.001	.001	0	%100
73	M12	X	.001	.001	0	%100
74	M13	X	.001	.001	0	%100
75	M14	X	.001	.001	0	%100
76	M15	X	.001	.001	0	%100
77	M16	X	.001	.001	0	%100
78	M17	X	0	0	0	%100
79	M18	X	0	0	0	%100
80	M19	X	0	0	0	%100
81	M20	X	0	0	0	%100
82	M21	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
83	M22	X	0	0	0	%100
84	M23	X	0	0	0	%100
85	M28	X	.001	.001	0	%100
86	M29	X	0	0	0	%100
87	M30	X	0	0	0	%100
88	M31	X	0	0	0	%100
89	M32	X	.001	.001	0	%100
90	M33	X	.002	.002	0	%100
91	M34	X	0	0	0	%100
92	M35	X	0	0	0	%100
93	M36	X	0	0	0	%100
94	M37	X	0	0	0	%100
95	M38	X	0	0	0	%100
96	M39	X	0	0	0	%100
97	M40	X	0	0	0	%100
98	M41	X	0	0	0	%100
99	MP2	X	0	0	0	%100
100	MP3B	X	0	0	0	%100
101	MP4B	X	0	0	0	%9.3
102	MP5	X	0	0	0	%100
103	MP4	X	0	0	0	%100
104	M48	X	0	0	0	%100
105	M49	X	0	0	0	%100
106	M50	X	0	0	0	%100
107	M51	X	0	0	0	%100
108	M52	X	0	0	0	%100
109	M53	X	0	0	0	%100
110	MP1	X	0	0	0	%100
111	M55	X	.001	.001	0	%100
112	M56	X	0	0	0	%100
113	M57	X	0	0	0	%100
114	M58	X	0	0	0	%100
115	M59	X	0	0	0	%100
116	M60	X	0	0	0	%100
117	MP4B	X	0	0	%30.8	%100
118	MP3	X	0	0	0	%100

Member Distributed Loads (BLC 50 : BLC 1 Transient Area Loads)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	M6	Y	-.003	-.008	3.331e-16	1.125
2	M6	Y	-.008	-.01	1.125	2.25
3	M6	Y	-.01	-.008	2.25	3.375
4	M6	Y	-.008	-.003	3.375	4.5
5	M7	Y	-.003	-.008	3.331e-16	1.125
6	M7	Y	-.008	-.01	1.125	2.25
7	M7	Y	-.01	-.008	2.25	3.375
8	M7	Y	-.008	-.003	3.375	4.5
9	M8	Y	-.002	-.007	1.11e-16	1.125
10	M8	Y	-.007	-.012	1.125	2.25
11	M8	Y	-.012	-.016	2.25	3.375
12	M8	Y	-.016	-.021	3.375	4.5
13	M9	Y	-.021	-.016	0	1.125
14	M9	Y	-.016	-.012	1.125	2.25
15	M9	Y	-.012	-.007	2.25	3.375
16	M9	Y	-.007	-.002	3.375	4.5
17	M10	Y	-.003	-.008	1.11e-16	1.125

Member Distributed Loads (BLC 50 : BLC 1 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
18	M10	Y	-.008	-.01	1.125	2.25
19	M10	Y	-.01	-.008	2.25	3.375
20	M10	Y	-.008	-.003	3.375	4.5
21	M17	Y	-.003	-.009	.938	1.876
22	M17	Y	-.009	-.011	1.876	2.814
23	M17	Y	-.011	-.011	2.814	3.752
24	M17	Y	-.011	-.011	3.752	4.69
25	M17	Y	-.011	-.011	4.69	5.628
26	M17	Y	-.011	-.011	5.628	6.566
27	M17	Y	-.011	-.011	6.566	7.504
28	M17	Y	-.011	-.011	7.504	8.442
29	M17	Y	-.011	-.011	8.442	9.38
30	M17	Y	-.011	-.011	9.38	10.318
31	M17	Y	-.011	-.011	10.318	11.256
32	M17	Y	-.011	-.011	11.256	12.194
33	M17	Y	-.011	-.011	12.194	13.132
34	M17	Y	-.011	-.011	13.132	14.07
35	M17	Y	-.011	-.011	14.07	15.008
36	M18	Y	-.006	-.017	.938	1.876
37	M18	Y	-.017	-.023	1.876	2.814
38	M18	Y	-.023	-.023	2.814	3.752
39	M18	Y	-.023	-.023	3.752	4.69
40	M18	Y	-.023	-.023	4.69	5.628
41	M18	Y	-.023	-.023	5.628	6.566
42	M18	Y	-.023	-.023	6.566	7.504
43	M18	Y	-.023	-.023	7.504	8.442
44	M18	Y	-.023	-.023	8.442	9.38
45	M18	Y	-.023	-.023	9.38	10.318
46	M18	Y	-.023	-.023	10.318	11.256
47	M18	Y	-.023	-.023	11.256	12.194
48	M18	Y	-.023	-.023	12.194	13.132
49	M18	Y	-.023	-.023	13.132	14.07
50	M18	Y	-.023	-.023	14.07	15.008
51	M19	Y	-.006	-.017	.938	1.876
52	M19	Y	-.017	-.025	1.876	2.814
53	M19	Y	-.025	-.031	2.814	3.752
54	M19	Y	-.031	-.034	3.752	4.69
55	M19	Y	-.034	-.034	4.69	5.628
56	M19	Y	-.034	-.034	5.628	6.566
57	M19	Y	-.034	-.034	6.566	7.504
58	M19	Y	-.034	-.034	7.504	8.442
59	M19	Y	-.034	-.034	8.442	9.38
60	M19	Y	-.034	-.034	9.38	10.318
61	M19	Y	-.034	-.034	10.318	11.256
62	M19	Y	-.034	-.034	11.256	12.194
63	M19	Y	-.034	-.034	12.194	13.132
64	M19	Y	-.034	-.034	13.132	14.07
65	M19	Y	-.034	-.034	14.07	15.008
66	M20	Y	-.006	-.017	.938	1.876
67	M20	Y	-.017	-.026	1.876	2.814
68	M20	Y	-.026	-.031	2.814	3.752
69	M20	Y	-.031	-.034	3.752	4.69
70	M20	Y	-.034	-.034	4.69	5.628
71	M20	Y	-.034	-.034	5.628	6.566
72	M20	Y	-.034	-.034	6.566	7.504
73	M20	Y	-.034	-.034	7.504	8.442
74	M20	Y	-.034	-.034	8.442	9.38

Member Distributed Loads (BLC 50 : BLC 1 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
75	M20	Y	-.034	-.034	9.38	10.318
76	M20	Y	-.034	-.034	10.318	11.256
77	M20	Y	-.034	-.034	11.256	12.194
78	M20	Y	-.034	-.034	12.194	13.132
79	M20	Y	-.034	-.034	13.132	14.07
80	M20	Y	-.034	-.034	14.07	15.008
81	M21	Y	-.003	-.009	.938	1.876
82	M21	Y	-.009	-.011	1.876	2.814
83	M21	Y	-.011	-.011	2.814	3.752
84	M21	Y	-.011	-.011	3.752	4.69
85	M21	Y	-.011	-.011	4.69	5.628
86	M21	Y	-.011	-.011	5.628	6.566
87	M21	Y	-.011	-.011	6.566	7.504
88	M21	Y	-.011	-.011	7.504	8.442
89	M21	Y	-.011	-.011	8.442	9.38
90	M21	Y	-.011	-.011	9.38	10.318
91	M21	Y	-.011	-.011	10.318	11.256
92	M21	Y	-.011	-.011	11.256	12.194
93	M21	Y	-.011	-.011	12.194	13.132
94	M21	Y	-.011	-.011	13.132	14.07
95	M21	Y	-.011	-.011	14.07	15.008

Member Distributed Loads (BLC 51 : BLC 48 Transient Area Loads)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	M6	Y	-.012	-.03	3.331e-16	1.125
2	M6	Y	-.03	-.04	1.125	2.25
3	M6	Y	-.04	-.03	2.25	3.375
4	M6	Y	-.03	-.012	3.375	4.5
5	M7	Y	-.012	-.03	3.331e-16	1.125
6	M7	Y	-.03	-.04	1.125	2.25
7	M7	Y	-.04	-.03	2.25	3.375
8	M7	Y	-.03	-.012	3.375	4.5
9	M8	Y	-.009	-.028	1.11e-16	1.125
10	M8	Y	-.028	-.047	1.125	2.25
11	M8	Y	-.047	-.066	2.25	3.375
12	M8	Y	-.066	-.084	3.375	4.5
13	M9	Y	-.084	-.066	0	1.125
14	M9	Y	-.066	-.047	1.125	2.25
15	M9	Y	-.047	-.028	2.25	3.375
16	M9	Y	-.028	-.009	3.375	4.5
17	M10	Y	-.012	-.03	1.11e-16	1.125
18	M10	Y	-.03	-.04	1.125	2.25
19	M10	Y	-.04	-.03	2.25	3.375
20	M10	Y	-.03	-.012	3.375	4.5
21	M17	Y	-.012	-.034	.938	1.876
22	M17	Y	-.034	-.045	1.876	2.814
23	M17	Y	-.045	-.045	2.814	3.752
24	M17	Y	-.045	-.045	3.752	4.69
25	M17	Y	-.045	-.045	4.69	5.628
26	M17	Y	-.045	-.045	5.628	6.566
27	M17	Y	-.045	-.045	6.566	7.504
28	M17	Y	-.045	-.045	7.504	8.442
29	M17	Y	-.045	-.045	8.442	9.38
30	M17	Y	-.045	-.045	9.38	10.318
31	M17	Y	-.045	-.045	10.318	11.256
32	M17	Y	-.045	-.045	11.256	12.194

Member Distributed Loads (BLC 51 : BLC 48 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
33	M17	Y	-.045	-.045	12.194	13.132
34	M17	Y	-.045	-.045	13.132	14.07
35	M17	Y	-.045	-.045	14.07	15.008
36	M18	Y	-.023	-.068	.938	1.876
37	M18	Y	-.068	-.091	1.876	2.814
38	M18	Y	-.091	-.091	2.814	3.752
39	M18	Y	-.091	-.091	3.752	4.69
40	M18	Y	-.091	-.091	4.69	5.628
41	M18	Y	-.091	-.091	5.628	6.566
42	M18	Y	-.091	-.091	6.566	7.504
43	M18	Y	-.091	-.091	7.504	8.442
44	M18	Y	-.091	-.091	8.442	9.38
45	M18	Y	-.091	-.091	9.38	10.318
46	M18	Y	-.091	-.091	10.318	11.256
47	M18	Y	-.091	-.091	11.256	12.194
48	M18	Y	-.091	-.091	12.194	13.132
49	M18	Y	-.091	-.091	13.132	14.07
50	M18	Y	-.091	-.091	14.07	15.008
51	M19	Y	-.023	-.068	.938	1.876
52	M19	Y	-.068	-.102	1.876	2.814
53	M19	Y	-.102	-.124	2.814	3.752
54	M19	Y	-.124	-.136	3.752	4.69
55	M19	Y	-.136	-.136	4.69	5.628
56	M19	Y	-.136	-.136	5.628	6.566
57	M19	Y	-.136	-.136	6.566	7.504
58	M19	Y	-.136	-.136	7.504	8.442
59	M19	Y	-.136	-.136	8.442	9.38
60	M19	Y	-.136	-.136	9.38	10.318
61	M19	Y	-.136	-.136	10.318	11.256
62	M19	Y	-.136	-.136	11.256	12.194
63	M19	Y	-.136	-.136	12.194	13.132
64	M19	Y	-.136	-.136	13.132	14.07
65	M19	Y	-.136	-.136	14.07	15.008
66	M20	Y	-.023	-.068	.938	1.876
67	M20	Y	-.068	-.102	1.876	2.814
68	M20	Y	-.102	-.125	2.814	3.752
69	M20	Y	-.125	-.136	3.752	4.69
70	M20	Y	-.136	-.136	4.69	5.628
71	M20	Y	-.136	-.136	5.628	6.566
72	M20	Y	-.136	-.136	6.566	7.504
73	M20	Y	-.136	-.136	7.504	8.442
74	M20	Y	-.136	-.136	8.442	9.38
75	M20	Y	-.136	-.136	9.38	10.318
76	M20	Y	-.136	-.136	10.318	11.256
77	M20	Y	-.136	-.136	11.256	12.194
78	M20	Y	-.136	-.136	12.194	13.132
79	M20	Y	-.136	-.136	13.132	14.07
80	M20	Y	-.136	-.136	14.07	15.008
81	M21	Y	-.012	-.034	.938	1.876
82	M21	Y	-.034	-.045	1.876	2.814
83	M21	Y	-.045	-.045	2.814	3.752
84	M21	Y	-.045	-.045	3.752	4.69
85	M21	Y	-.045	-.045	4.69	5.628
86	M21	Y	-.045	-.045	5.628	6.566
87	M21	Y	-.045	-.045	6.566	7.504
88	M21	Y	-.045	-.045	7.504	8.442
89	M21	Y	-.045	-.045	8.442	9.38

Member Distributed Loads (BLC 51 : BLC 48 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
90	M21	Y	-.045	-.045	9.38	10.318
91	M21	Y	-.045	-.045	10.318	11.256
92	M21	Y	-.045	-.045	11.256	12.194
93	M21	Y	-.045	-.045	12.194	13.132
94	M21	Y	-.045	-.045	13.132	14.07
95	M21	Y	-.045	-.045	14.07	15.008

Member Distributed Loads (BLC 52 : BLC 49 Transient Area Loads)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	M6	Y	-.011	-.027	3.331e-16	1.125
2	M6	Y	-.027	-.036	1.125	2.25
3	M6	Y	-.036	-.027	2.25	3.375
4	M6	Y	-.027	-.011	3.375	4.5
5	M7	Y	-.011	-.027	3.331e-16	1.125
6	M7	Y	-.027	-.036	1.125	2.25
7	M7	Y	-.036	-.027	2.25	3.375
8	M7	Y	-.027	-.011	3.375	4.5
9	M8	Y	-.008	-.025	1.11e-16	1.125
10	M8	Y	-.025	-.042	1.125	2.25
11	M8	Y	-.042	-.059	2.25	3.375
12	M8	Y	-.059	-.076	3.375	4.5
13	M9	Y	-.076	-.059	0	1.125
14	M9	Y	-.059	-.042	1.125	2.25
15	M9	Y	-.042	-.025	2.25	3.375
16	M9	Y	-.025	-.008	3.375	4.5
17	M10	Y	-.011	-.027	1.11e-16	1.125
18	M10	Y	-.027	-.036	1.125	2.25
19	M10	Y	-.036	-.027	2.25	3.375
20	M10	Y	-.027	-.011	3.375	4.5
21	M17	Y	-.01	-.031	.938	1.876
22	M17	Y	-.031	-.041	1.876	2.814
23	M17	Y	-.041	-.041	2.814	3.752
24	M17	Y	-.041	-.041	3.752	4.69
25	M17	Y	-.041	-.041	4.69	5.628
26	M17	Y	-.041	-.041	5.628	6.566
27	M17	Y	-.041	-.041	6.566	7.504
28	M17	Y	-.041	-.041	7.504	8.442
29	M17	Y	-.041	-.041	8.442	9.38
30	M17	Y	-.041	-.041	9.38	10.318
31	M17	Y	-.041	-.041	10.318	11.256
32	M17	Y	-.041	-.041	11.256	12.194
33	M17	Y	-.041	-.041	12.194	13.132
34	M17	Y	-.041	-.041	13.132	14.07
35	M17	Y	-.041	-.041	14.07	15.008
36	M18	Y	-.021	-.061	.938	1.876
37	M18	Y	-.061	-.082	1.876	2.814
38	M18	Y	-.082	-.082	2.814	3.752
39	M18	Y	-.082	-.082	3.752	4.69
40	M18	Y	-.082	-.082	4.69	5.628
41	M18	Y	-.082	-.082	5.628	6.566
42	M18	Y	-.082	-.082	6.566	7.504
43	M18	Y	-.082	-.082	7.504	8.442
44	M18	Y	-.082	-.082	8.442	9.38
45	M18	Y	-.082	-.082	9.38	10.318
46	M18	Y	-.082	-.082	10.318	11.256
47	M18	Y	-.082	-.082	11.256	12.194

Member Distributed Loads (BLC 52 : BLC 49 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
48	M18	Y	-.082	-.082	12.194	13.132
49	M18	Y	-.082	-.082	13.132	14.07
50	M18	Y	-.082	-.082	14.07	15.008
51	M19	Y	-.021	-.061	.938	1.876
52	M19	Y	-.061	-.092	1.876	2.814
53	M19	Y	-.092	-.112	2.814	3.752
54	M19	Y	-.112	-.122	3.752	4.69
55	M19	Y	-.122	-.122	4.69	5.628
56	M19	Y	-.122	-.122	5.628	6.566
57	M19	Y	-.122	-.122	6.566	7.504
58	M19	Y	-.122	-.122	7.504	8.442
59	M19	Y	-.122	-.122	8.442	9.38
60	M19	Y	-.122	-.122	9.38	10.318
61	M19	Y	-.122	-.122	10.318	11.256
62	M19	Y	-.122	-.122	11.256	12.194
63	M19	Y	-.122	-.122	12.194	13.132
64	M19	Y	-.122	-.122	13.132	14.07
65	M19	Y	-.122	-.122	14.07	15.008
66	M20	Y	-.021	-.061	.938	1.876
67	M20	Y	-.061	-.092	1.876	2.814
68	M20	Y	-.092	-.112	2.814	3.752
69	M20	Y	-.112	-.122	3.752	4.69
70	M20	Y	-.122	-.122	4.69	5.628
71	M20	Y	-.122	-.122	5.628	6.566
72	M20	Y	-.122	-.122	6.566	7.504
73	M20	Y	-.122	-.122	7.504	8.442
74	M20	Y	-.122	-.122	8.442	9.38
75	M20	Y	-.122	-.122	9.38	10.318
76	M20	Y	-.122	-.122	10.318	11.256
77	M20	Y	-.122	-.122	11.256	12.194
78	M20	Y	-.122	-.122	12.194	13.132
79	M20	Y	-.122	-.122	13.132	14.07
80	M20	Y	-.122	-.122	14.07	15.008
81	M21	Y	-.01	-.031	.938	1.876
82	M21	Y	-.031	-.041	1.876	2.814
83	M21	Y	-.041	-.041	2.814	3.752
84	M21	Y	-.041	-.041	3.752	4.69
85	M21	Y	-.041	-.041	4.69	5.628
86	M21	Y	-.041	-.041	5.628	6.566
87	M21	Y	-.041	-.041	6.566	7.504
88	M21	Y	-.041	-.041	7.504	8.442
89	M21	Y	-.041	-.041	8.442	9.38
90	M21	Y	-.041	-.041	9.38	10.318
91	M21	Y	-.041	-.041	10.318	11.256
92	M21	Y	-.041	-.041	11.256	12.194
93	M21	Y	-.041	-.041	12.194	13.132
94	M21	Y	-.041	-.041	13.132	14.07
95	M21	Y	-.041	-.041	14.07	15.008

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribut...	Area(M...	Surface(Plate/Wall)
1	Dead	None		-1			11		1	
2	Ice Dead	None					11	56		
3	Full Wind Antenna (0 Deg)	None					15			
4	Full Wind Antenna (30 Deg)	None					30			

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribut...	Area(M...	Surface(Plate/Wall)
5	Full Wind Antenna (60 Deg)	None					30			
6	Full Wind Antenna (90 Deg)	None					30			
7	Full Wind Antenna (120 D...	None					30			
8	Full Wind Antenna (150 D...	None					30			
9	Full Wind Members (0 Deg)	None						82		
10	Full Wind Members (30 D...	None						82		
11	Full Wind Members (60 D...	None						82		
12	Full Wind Members (90 D...	None						82		
13	Full Wind Members (120 ...	None						82		
14	Full Wind Members (150 ...	None						82		
15	Ice Wind Antenna (0 Deg)	None					15			
16	Ice Wind Antenna (30 Deg)	None					30			
17	Ice Wind Antenna (60 Deg)	None					30			
18	Ice Wind Antenna (90 Deg)	None					30			
19	Ice Wind Antenna (120 De...	None					30			
20	Ice Wind Antenna (150 De...	None					30			
21	Ice Wind Members (0 Deg)	None						118		
22	Ice Wind Members (30 Deg)	None						118		
23	Ice Wind Members (60 Deg)	None						118		
24	Ice Wind Members (90 Deg)	None						118		
25	Ice Wind Members (120 D...	None						118		
26	Ice Wind Members (150 D...	None						118		
27	Seismic Antenna (0 Deg)	None					11			
28	Seismic Antenna (90 Deg)	None					11			
29	Seismic Members (0 Deg)	None		-.203	-.407					
30	Seismic Members (30 Deg)	None	.203	-.203	-.352					
31	Seismic Members (60 Deg)	None	.352	-.203	-.203					
32	Seismic Members (90 Deg)	None	.407	-.203	-2.492e-...					
33	Seismic Members (120 De...	None	.352	-.203	.203					
34	Seismic Members (150 De...	None	.203	-.203	.352					
35	Seismic Members (180 De...	None	4.984e-17	-.203	.407					
36	Seismic Members (210 De...	None	-.203	-.203	.352					
37	Seismic Members (240 De...	None	-.352	-.203	.203					
38	Seismic Members (270 De...	None	-.407	-.203	7.476e-17					
39	Seismic Members (300 De...	None	-.352	-.203	-.203					
40	Seismic Members (330 De...	None	-.203	-.203	-.352					
41	Seismic Vertical Antennas	None					11			
42	Man 1 (500 lbs)	None				1				
43	Man 2 (500 lbs)	None				1				
44	Man 3 (500 lbs)	None				1				
45	Man 4 (250 lbs)	None				1				
46	Man 5 (250 lbs)	None				1				
47	Man 6 (250 lbs)	None				1				
48	Roof Load	None							1	
49	Snow Load	None							1	
50	BLC 1 Transient Area Loa...	None						95		
51	BLC 48 Transient Area Lo...	None						95		
52	BLC 49 Transient Area Lo...	None						95		

Load Combinations

	Description	So...	P...	S...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...
1	1.4D	Yes	Y		25	1.4																		
2	1.2D + 1.0W + 0.5R...	Yes	Y		25	1.2	1	1	7	1	48	.5												
3	1.2D + 1.0W +0.5R ...	Yes	Y		25	1.2	2	1	8	1	48	.5												
4	1.2D + 1.0W + 0.5R...	Yes	Y		25	1.2	3	1	9	1	48	.5												

Load Combinations (Continued)

	Description	So...	P...	S...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...
5	1.2D + 1.0W + 0.5R...	Yes	Y		25	1.2	4	1	10	1	48	.5												
6	1.2D + 1.0W + 0.5R...	Yes	Y		25	1.2	5	1	11	1	48	.5												
7	1.2D + 1.0W + 0.5R...	Yes	Y		25	1.2	6	1	12	1	48	.5												
8	1.2D + 1.0W + 0.5R...	Yes	Y		25	1.2	1	-1	7	-1	48	.5												
9	1.2D + 1.0W + 0.5R...	Yes	Y		25	1.2	2	-1	8	-1	48	.5												
10	1.2D + 1.0W + 0.5R...	Yes	Y		25	1.2	3	-1	9	-1	48	.5												
11	1.2D + 1.0W + 0.5R...	Yes	Y		25	1.2	4	-1	10	-1	48	.5												
12	1.2D + 1.0W + 0.5R...	Yes	Y		25	1.2	5	-1	11	-1	48	.5												
13	1.2D + 1.0W + 0.5R...	Yes	Y		25	1.2	6	-1	12	-1	48	.5												
14	1.2D + 1.0Di + 1.0...	Yes	Y		25	1.2	26	1	13	1	19	1	48	.5										
15	1.2D + 1.0Di + 1.0...	Yes	Y		25	1.2	26	1	14	1	20	1	48	.5										
16	1.2D + 1.0Di + 1.0...	Yes	Y		25	1.2	26	1	15	1	21	1	48	.5										
17	1.2D + 1.0Di + 1.0...	Yes	Y		25	1.2	26	1	16	1	22	1	48	.5										
18	1.2D + 1.0Di + 1.0...	Yes	Y		25	1.2	26	1	17	1	23	1	48	.5										
19	1.2D + 1.0Di + 1.0...	Yes	Y		25	1.2	26	1	18	1	24	1	48	.5										
20	1.2D + 1.0Di + 1.0...	Yes	Y		25	1.2	26	1	13	-1	19	-1	48	.5										
21	1.2D + 1.0Di + 1.0...	Yes	Y		25	1.2	26	1	14	-1	20	-1	48	.5										
22	1.2D + 1.0Di + 1.0...	Yes	Y		25	1.2	26	1	15	-1	21	-1	48	.5										
23	1.2D + 1.0Di + 1.0...	Yes	Y		25	1.2	26	1	16	-1	22	-1	48	.5										
24	1.2D + 1.0Di + 1.0...	Yes	Y		25	1.2	26	1	17	-1	23	-1	48	.5										
25	1.2D + 1.0Di + 1.0...	Yes	Y		25	1.2	26	1	18	-1	24	-1	48	.5										
26	1.2D + 1.5Lm_1 + 1...	Yes	Y		25	1.2	1	.099	7	.099	42	1.5												
27	1.2D + 1.5Lm_1 + 1...	Yes	Y		25	1.2	2	.099	8	.099	42	1.5												
28	1.2D + 1.5Lm_1 + 1...	Yes	Y		25	1.2	3	.099	9	.099	42	1.5												
29	1.2D + 1.5Lm_1 + 1...	Yes	Y		25	1.2	4	.099	10	.099	42	1.5												
30	1.2D + 1.5Lm_1 + 1...	Yes	Y		25	1.2	5	.099	11	.099	42	1.5												
31	1.2D + 1.5Lm_1 + 1...	Yes	Y		25	1.2	6	.099	12	.099	42	1.5												
32	1.2D + 1.5Lm_1 + 1...	Yes	Y		25	1.2	1	-.099	7	-.099	42	1.5												
33	1.2D + 1.5Lm_1 + 1...	Yes	Y		25	1.2	2	-.099	8	-.099	42	1.5												
34	1.2D + 1.5Lm_1 + 1...	Yes	Y		25	1.2	3	-.099	9	-.099	42	1.5												
35	1.2D + 1.5Lm_1 + 1...	Yes	Y		25	1.2	4	-.099	10	-.099	42	1.5												
36	1.2D + 1.5Lm_1 + 1...	Yes	Y		25	1.2	5	-.099	11	-.099	42	1.5												
37	1.2D + 1.5Lm_1 + 1...	Yes	Y		25	1.2	6	-.099	12	-.099	42	1.5												
38	1.2D + 1.5Lm_2 + 1...	Yes	Y		25	1.2	1	.099	7	.099	43	1.5												
39	1.2D + 1.5Lm_2 + 1...	Yes	Y		25	1.2	2	.099	8	.099	43	1.5												
40	1.2D + 1.5Lm_2 + 1...	Yes	Y		25	1.2	3	.099	9	.099	43	1.5												
41	1.2D + 1.5Lm_2 + 1...	Yes	Y		25	1.2	4	.099	10	.099	43	1.5												
42	1.2D + 1.5Lm_2 + 1...	Yes	Y		25	1.2	5	.099	11	.099	43	1.5												
43	1.2D + 1.5Lm_2 + 1...	Yes	Y		25	1.2	6	.099	12	.099	43	1.5												
44	1.2D + 1.5Lm_2 + 1...	Yes	Y		25	1.2	1	-.099	7	-.099	43	1.5												
45	1.2D + 1.5Lm_2 + 1...	Yes	Y		25	1.2	2	-.099	8	-.099	43	1.5												
46	1.2D + 1.5Lm_2 + 1...	Yes	Y		25	1.2	3	-.099	9	-.099	43	1.5												
47	1.2D + 1.5Lm_2 + 1...	Yes	Y		25	1.2	4	-.099	10	-.099	43	1.5												
48	1.2D + 1.5Lm_2 + 1...	Yes	Y		25	1.2	5	-.099	11	-.099	43	1.5												
49	1.2D + 1.5Lm_2 + 1...	Yes	Y		25	1.2	6	-.099	12	-.099	43	1.5												
50	1.2D + 1.5Lm_3 + 1...	Yes	Y		25	1.2	1	.099	7	.099	44	1.5												
51	1.2D + 1.5Lm_3 + 1...	Yes	Y		25	1.2	2	.099	8	.099	44	1.5												
52	1.2D + 1.5Lm_3 + 1...	Yes	Y		25	1.2	3	.099	9	.099	44	1.5												
53	1.2D + 1.5Lm_3 + 1...	Yes	Y		25	1.2	4	.099	10	.099	44	1.5												
54	1.2D + 1.5Lm_3 + 1...	Yes	Y		25	1.2	5	.099	11	.099	44	1.5												
55	1.2D + 1.5Lm_3 + 1...	Yes	Y		25	1.2	6	.099	12	.099	44	1.5												
56	1.2D + 1.5Lm_3 + 1...	Yes	Y		25	1.2	1	-.099	7	-.099	44	1.5												
57	1.2D + 1.5Lm_3 + 1...	Yes	Y		25	1.2	2	-.099	8	-.099	44	1.5												
58	1.2D + 1.5Lm_3 + 1...	Yes	Y		25	1.2	3	-.099	9	-.099	44	1.5												
59	1.2D + 1.5Lm_3 + 1...	Yes	Y		25	1.2	4	-.099	10	-.099	44	1.5												
60	1.2D + 1.5Lm_3 + 1...	Yes	Y		25	1.2	5	-.099	11	-.099	44	1.5												
61	1.2D + 1.5Lm_3 + 1...	Yes	Y		25	1.2	6	-.099	12	-.099	44	1.5												

Load Combinations (Continued)

	Description	So...	P...	S...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...
62	1.2D + 1.5Lv_1 0°	Yes	Y		25	1.2	45	1.5																
63	1.2D + 1.5Lv_1 30°	Yes	Y		25	1.2	45	1.5																
64	1.2D + 1.5Lv_1 60°	Yes	Y		25	1.2	45	1.5																
65	1.2D + 1.5Lv_1 90°	Yes	Y		25	1.2	45	1.5																
66	1.2D + 1.5Lv_1 120°	Yes	Y		25	1.2	45	1.5																
67	1.2D + 1.5Lv_1 150°	Yes	Y		25	1.2	45	1.5																
68	1.2D + 1.5Lv_1 180°	Yes	Y		25	1.2	45	1.5																
69	1.2D + 1.5Lv_1 210°	Yes	Y		25	1.2	45	1.5																
70	1.2D + 1.5Lv_1 240°	Yes	Y		25	1.2	45	1.5																
71	1.2D + 1.5Lv_1 270°	Yes	Y		25	1.2	45	1.5																
72	1.2D + 1.5Lv_1 300°	Yes	Y		25	1.2	45	1.5																
73	1.2D + 1.5Lv_1 330°	Yes	Y		25	1.2	45	1.5																
74	1.2D + 1.5Lv_2 0°	Yes	Y		25	1.2	46	1.5																
75	1.2D + 1.5Lv_2 30°	Yes	Y		25	1.2	46	1.5																
76	1.2D + 1.5Lv_2 60°	Yes	Y		25	1.2	46	1.5																
77	1.2D + 1.5Lv_2 90°	Yes	Y		25	1.2	46	1.5																
78	1.2D + 1.5Lv_2 120°	Yes	Y		25	1.2	46	1.5																
79	1.2D + 1.5Lv_2 150°	Yes	Y		25	1.2	46	1.5																
80	1.2D + 1.5Lv_2 180°	Yes	Y		25	1.2	46	1.5																
81	1.2D + 1.5Lv_2 210°	Yes	Y		25	1.2	46	1.5																
82	1.2D + 1.5Lv_2 240°	Yes	Y		25	1.2	46	1.5																
83	1.2D + 1.5Lv_2 270°	Yes	Y		25	1.2	46	1.5																
84	1.2D + 1.5Lv_2 300°	Yes	Y		25	1.2	46	1.5																
85	1.2D + 1.5Lv_2 330°	Yes	Y		25	1.2	46	1.5																
86	1.2D + 1.5Lv_3 0°	Yes	Y		25	1.2	47	1.5																
87	1.2D + 1.5Lv_3 30°	Yes	Y		25	1.2	47	1.5																
88	1.2D + 1.5Lv_3 60°	Yes	Y		25	1.2	47	1.5																
89	1.2D + 1.5Lv_3 90°	Yes	Y		25	1.2	47	1.5																
90	1.2D + 1.5Lv_3 120°	Yes	Y		25	1.2	47	1.5																
91	1.2D + 1.5Lv_3 150°	Yes	Y		25	1.2	47	1.5																
92	1.2D + 1.5Lv_3 180°	Yes	Y		25	1.2	47	1.5																
93	1.2D + 1.5Lv_3 210°	Yes	Y		25	1.2	47	1.5																
94	1.2D + 1.5Lv_3 240°	Yes	Y		25	1.2	47	1.5																
95	1.2D + 1.5Lv_3 270°	Yes	Y		25	1.2	47	1.5																
96	1.2D + 1.5Lv_3 300°	Yes	Y		25	1.2	47	1.5																
97	1.2D + 1.5Lv_3 330°	Yes	Y		25	1.2	47	1.5																
98	1.2D + 1.0EV +1.0 ...	Yes	Y		25	1.2	27	1	28		29	1	41	1	49	.2								
99	1.2D + 1.0EV +1.0 ...	Yes	Y		25	1.2	27	1	28		30	1	41	1	49	.2								
100	1.2D + 1.0EV +1.0 ...	Yes	Y		25	1.2	27	1	28		31	1	41	1	49	.2								
101	1.2D + 1.0EV +1.0 ...	Yes	Y		25	1.2	27	1	28		32	1	41	1	49	.2								
102	1.2D + 1.0EV +1.0 ...	Yes	Y		25	1.2	27	1	28		33	1	41	1	49	.2								
103	1.2D + 1.0EV +1.0 ...	Yes	Y		25	1.2	27	1	28		34	1	41	1	49	.2								
104	1.2D + 1.0EV +1.0 ...	Yes	Y		25	1.2	27	1	28		35	1	41	1	49	.2								
105	1.2D + 1.0EV +1.0 ...	Yes	Y		25	1.2	27	1	28		36	1	41	1	49	.2								
106	1.2D + 1.0EV +1.0 ...	Yes	Y		25	1.2	27	1	28		37	1	41	1	49	.2								
107	1.2D + 1.0EV +1.0 ...	Yes	Y		25	1.2	27	1	28		38	1	41	1	49	.2								
108	1.2D + 1.0EV +1.0 ...	Yes	Y		25	1.2	27	1	28		39	1	41	1	49	.2								
109	1.2D + 1.0EV +1.0 ...	Yes	Y		25	1.2	27	1	28		40	1	41	1	49	.2								

Envelope Joint Reactions

	Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N6	max	1.469	13	2.656	2	.331	20	.86	5	1.088	7	1.178	8
2		min	-2.255	7	-1.402	8	-.738	14	-.967	11	-.952	13	-2.57	2
3	N22	max	.233	10	.127	2	.318	4	.462	9	.331	11	.048	5
4		min	-.292	4	-.118	8	-.337	10	-.508	3	-.415	5	-.038	11

Envelope Joint Reactions (Continued)

	Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
5	N21	max	.481	10	.25	2	1.959	4	.635	9	.438	10	.057	4
6		min	-.492	4	-.252	8	-2.021	10	-.649	3	-.484	4	-.052	10
7	N17	max	.235	13	.462	2	.312	4	.332	8	.657	13	.024	7
8		min	-.273	7	-.118	8	-.226	14	-1.182	2	-.754	7	-.022	13
9	N16	max	.244	13	1.157	2	.198	6	.163	56	.709	13	.027	7
10		min	-.287	7	-.053	32	-.216	12	-3.513	2	-.828	7	-.024	13
11	N15	max	.237	13	1.164	2	.511	4	.167	56	.667	13	.026	7
12		min	-.277	7	-.054	32	-.569	10	-3.617	2	-.78	7	-.022	13
13	N14	max	.23	13	.86	2	.193	5	.125	56	.631	13	.025	7
14		min	-.272	7	-.042	32	-.292	14	-2.637	2	-.757	7	-.021	13
15	N13	max	.247	13	.536	2	.072	6	.347	8	.715	13	.028	7
16		min	-.289	7	-.118	8	-.1	14	-1.58	2	-.838	7	-.023	13
17	N18	max	.167	21	.122	3	.183	4	.268	9	.204	12	.03	6
18		min	-.237	15	-.123	9	-.204	10	-.271	3	-.258	6	-.024	12
19	N1	max	1.858	2	1.949	2	.111	6	0	109	0	109	0	109
20		min	-.784	8	-.792	8	-.117	12	0	1	0	1	0	1
21	N7	max	.68	8	.366	2	.14	6	0	109	0	109	0	109
22		min	-1.829	2	-.108	8	-.147	12	0	1	0	1	0	1
23	Totals:	max	4.627	13	9.639	2	3.498	4						
24		min	-5.783	7	-2.885	8	-3.989	10						

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

	Member	Shape	Code C...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y-...	phi*Mn z-...	Cb	Eqn
1	M1	LL2.5x2x4x0	.260	4.5	10	.021	0	z	3	52.43	69.336	2.916	2.929	2....	H1-1b
2	M2	LL2.5x2x4x0	.226	0	10	.044	0	z	10	52.43	69.336	2.916	2.929	1....	H1-1b
3	M3	LL2.5x2x4x0	.197	3	10	.012	4.5	z	10	52.43	69.336	2.916	2.929	1....	H1-1b
4	M4	LL2.5x2x4x0	.419	4.5	10	.055	4.5	z	10	52.43	69.336	2.916	2.929	2....	H1-1b
5	M5	LL2.5x2x4x0	.178	0	10	.024	0	z	4	52.43	69.336	2.916	2.929	2....	H1-1b
6	M6	LL2.5x2x4x0	.076	0	7	.003	0	z	7	52.43	69.336	2.916	2.929	2....	H1-1b
7	M7	LL2.5x2x4x0	.097	4.5	2	.048	4.5	y	4	52.43	69.336	2.916	2.929	2....	H1-1b
8	M8	LL2.5x2x4x0	.152	0	3	.032	0	z	4	52.43	69.336	2.916	2.929	1....	H1-1b
9	M9	LL2.5x2x4x0	.102	4.5	2	.024	4.5	y	4	52.43	69.336	2.916	2.929	2....	H1-1b
10	M10	LL2.5x2x4x0	.058	0	7	.007	1.969	y	10	52.43	69.336	2.916	2.929	2....	H1-1b
11	M11	LL2x2x4x6	.062	0	2	.005	6.364	z	10	42.968	61.236	4.475	1.982	2....	H1-1b
12	M12	LL2x2x4x6	.162	0	4	.010	0	z	4	42.968	61.236	4.475	1.982	1....	H1-1b
13	M13	LL2x2x4x6	.057	0	5	.006	0	z	4	25.255	61.236	4.475	1.925	1....	H1-1b
14	M14	LL2x2x4x6	.088	6.364	3	.007	6.364	z	10	42.968	61.236	4.475	1.982	2....	H1-1b
15	M15	LL2x2x3x3	.118	4.5	2	.006	0	y	4	39.081	46.656	2.666	1.474	2....	H1-1b
16	M16	LL2x2x3x3	.310	0	10	.015	0	y	10	39.081	46.656	2.666	1.474	1....	H1-1b
17	M17	W8X24	.046	15.008	7	.013	15.008	y	2	173.524	229.392	23.139	62.37	2....	H1-1b
18	M18	W8X24	.054	15.008	7	.020	15.008	y	2	118.486	229.392	23.139	62.37	2....	H1-1b
19	M19	W8X24	.063	15.008	7	.028	15.008	y	2	173.524	229.392	23.139	62.37	2.2	H1-1b
20	M20	W8X24	.066	15.008	7	.028	15.008	y	2	118.486	229.392	23.139	62.37	2....	H1-1b
21	M21	W8X24	.039	15.008	13	.013	3.908	y	3	118.486	229.392	23.139	62.37	2....	H1-1b
22	M22	W4X13	.152	0	6	.033	3.933	y	6	26.553	124.092	7.884	16.956	2....	H1-1b
23	M23	L2.5x2.5x4	.084	0	4	.005	13.757	y	3	20.082	38.556	1.114	1.97	1....	H2-1
24	M28	L2.5x2.5x4	.377	18.742	15	.009	18.742	z	15	2.923	38.556	1.114	1.804	2....	H2-1
25	M29	L2.5x2.5x4	.085	0	3	.004	0	z	3	20.082	38.556	1.114	2.119	2....	H2-1
26	M30	LL3x3x3x0	.265	15.102	9	.024	15.102	z	4	30.55	70.632	4.823	2.561	1....	H1-1b
27	M31	LL3x3x3x0	.121	15.102	9	.021	15.102	y	3	30.55	70.632	4.823	2.561	2....	H1-1b
28	M32	LL2x2x3x3	.070	4.5	2	.004	0	y	10	39.081	46.656	2.666	1.474	2....	H1-1b
29	M33	W12X72	.020	4.5	13	.007	2.672	y	13	672.378	683.64	132.84	291.6	1....	H1-1b
30	MP2	PIPE_2.0	.122	5	10	.079	5		10	9.837	32.13	1.872	1.872	1....	H1-1b
31	MP3B	PIPE_2.0	.250	5	4	.109	.938		10	9.837	32.13	1.872	1.872	2....	H1-1b
32	MP4B	PIPE_2.0	.127	5	4	.071	.521		3	9.837	32.13	1.872	1.872	1....	H1-1b

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

	Member	Shape	Code C...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y-...	phi*Mn z-...	Cb	Eqn
33	MP5	PIPE_2.0	.191	5	10	.072	5		10	9.837	32.13	1.872	1.872	1....	H1-1b
34	MP3	PIPE_2.0	.072	1.042	10	.032	9.167		10	9.837	32.13	1.872	1.872	1....	H1-1b*
35	MP4	PIPE_2.0	.048	9.167	98	.023	.938		10	9.837	32.13	1.872	1.872	2....	H1-1b
36	MP1	PIPE_2.0	.506	5.417	10	.028	.521		4	9.837	32.13	1.872	1.872	1....	H1-1b
37	M55	LL3x3x3x0	.154	4.453	9	.010	4.688	z	4	5.888	70.632	4.823	2.283	2....	H1-1b
38	M56	PIPE_2.5	.118	4.297	10	.050	.26		10	14.559	50.715	3.596	3.596	2....	H1-1b