STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL
Ten Franklin Square, New Britain, CT 06051
Phone: (860) 827-2935 Fax: (860) 827-2950
E-Mail: siting.council@ct.gov
Web Site: portal.ct.gov/csc

VIA ELECTRONIC MAIL

February 6, 2023

Domenica Tatasciore
Site Acquisition Specialist
Crown Castle
1800 W. Park Drive
Westborough, MA 01581
Domenica.Tatasciore@crowncastle.com

RE: **EM-AT&T-164-230113** - AT&T notice of intent to modify an existing telecommunications facility located at 340 Bloomfield Avenue, Windsor, Connecticut.

Dear Domenica Tatasciore:

The Connecticut Siting Council (Council) is in receipt of your correspondence of February 6, 2023 submitted in response to the Council's January 24, 2023 notification of an incomplete request for exempt modification with regard to the above-referenced matter.

The submission renders the request for exempt modification complete and the Council will process the request in accordance with the Federal Communications Commission 60-day timeframe.

Thank you for your attention and cooperation.

Sincerely,

Melanie Bachman
Executive Director

MAB/ANM/laf

From: Tatasciore, Domenica <Domenica.Tatasciore@crowncastle.com>
Sent: Monday, February 6, 2023 7:59 AM
To: Fontaine, Lisa <Lisa.Fontaine@ct.gov>
Cc: CSC-DL Siting Council <Siting.Council@ct.gov>; Chapman, Veronica <Veronica.Chapman@crowncastle.com>
Subject: RE: Council Incomplete letter for Em-AT&T-164-230113 (Bloomfield Ave)- Windsor

Good morning Lisa,

Per your attached letter citing incompleteness due to the MA citations, please see the attached updated Mount Analysis that you requested. I will not require an extension as this document has been submitted prior to the February 14 deadline. I will send 1 hardcopy via Fedex priority post, as requested, and you should receive it tomorrow morning.

Please advise if you need anything else.

Take care,

DOMENICA TATASCIORE
Site Acquisition Specialist
T: 508-621-9161

CROWN CASTLE
1800 West Park Drive, Westborough, MA 01581
CrownCastle.com

Date: **January 31, 2023**

Trylon
1825 W. Walnut Hill Lane,
Suite 302
Irving, TX 75038
214-930-1730

Subject:	**Mount Modification Report**	
Carrier Designation:	**AT&T Mobility Equipment Change-Out**	
	Carrier Site Number:	CTL05138
	Carrier Site Name:	Windsor Central
	Carrier FA Number:	10092835
Crown Castle Designation:	**BU Number:**	855662
	Site Name:	Windsorcentral
	JDE Job Number:	732035
	Order Number:	634432 Rev. 1
Engineering Firm Designation:	**Trylon Report Designation:**	223271
Site Data:	**340 Bloomfield Avenue, Windsor, Hartford County, CT, 06095**	
	Latitude 41°51'9.34" Longitude -72°39'37.79"	
Structure Information:	**Tower Height & Type:**	**148.0 ft Monopole**
	Mount Elevation:	**148.0 ft**
	Mount Width & Type:	**14.0 ft Platform**

Trylon is pleased to submit this **"Mount Modification Report"** to determine the structural integrity of AT&T Mobility's antenna mounting system with the proposed appurtenance and equipment addition on the above mentioned supporting tower structure. Analysis of the existing supporting tower structure is to be completed by others and therefore is not part of this analysis. Analysis of the antenna mounting system as a tie-off point for fall protection or rigging is not part of this document.

The purpose of the analysis is to determine acceptability of the mount stress level. Based on our analysis we have determined the mount stress level to be:

Platform **Sufficient***

***Sufficient upon completion of the changes listed in the 'Recommendations' section of this report.**

This analysis has been performed in accordance with the 2022 Connecticut State Building Code based upon an ultimate 3-second gust wind speed of 125 mph. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Mount analysis prepared by: Alexandra Chetreanu

Respectfully Submitted by:
Cliff Abernathy, P.E.

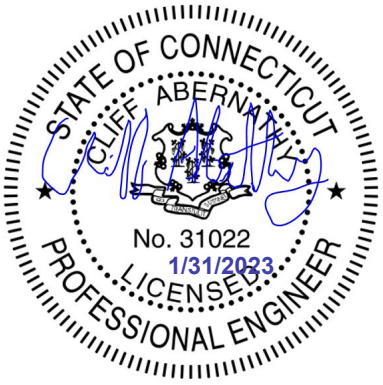


TABLE OF CONTENTS

1) INTRODUCTION

This is an existing 3 sector 14.0 ft Platform, designed by Summit.

2) ANALYSIS CRITERIA

Building Code:	2021 IBC
TIA-222 Revision:	TIA-222-H
Risk Category:	II
Ultimate Wind Speed:	125 mph
Exposure Category:	C
Topographic Factor at Base:	1.00
Topographic Factor at Mount:	1.00
Ice Thickness:	1.50 in
Wind Speed with Ice:	50 mph
Seismic S_s:	0.179
Seismic S_1:	0.064
Live Loading Wind Speed:	30 mph
Man Live Load at Mid/End-Points:	250 lb
Man Live Load at Mount Pipes:	500 lb

Table 1 - Proposed Equipment Configuration

Mount Centerline (ft)	Antenna Centerline (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Mount / Modification Details
148.0	148.0	2	CCI Antennas	TPA65R-BU6DA-K	14.0 ft Platform
		1	CCI Antennas	TPA65R-BU8DA-K	
		2	Commscope	NNHHS4-65B-R5-V2	
		1	Commscope	NNHHS4-65C-R5-V2	
		12	Commscope	STX61742Q-43	
		3	Ericsson	8863 B77D	
		3	Ericsson	RRUS 4449 B5/B12	
		3	Ericsson	RRUS 4478 B14_CCIV2	
		3	Ericsson	RRUS 8843 B2/B66A	
		1	Raycap	DC6-48-60-18-8CEV	
		1	Raycap	DC6-48-60-18-8F	

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

Document	Remarks	Reference	Source
Crown Application	AT&T Mobility Application	634432, Rev. 1	CCI Sites
Mount Manufacturer Drawings	Summit	140R Modular Platform	Trylon
Structural Analysis Report	Crown Castle	10647995	CCI Sites
Mount Modification Report	Trylon	10380303	CCI Sites
Exposure Category Determination	Crown Castle	5962154	CCI Sites
Mount Modification Drawings	Trylon	Appendix E	Trylon

3.1) Analysis Method

RISA-3D (Version 17.0.4), a commercially available analysis software package, was used to create a three-dimensional model of the antenna mounting system and calculate member stresses for various loading cases.

A tool internally developed, using Microsoft Excel, by Trylon was used to calculate wind loading on all appurtenances, dishes, and mount members for various load cases. Selected output from the analysis is included in Appendix B.

This analysis was performed in accordance with Crown Castle's ENG-SOW-10208 *Tower Mount Analysis* (Revision E). In addition, this analysis is in accordance with AT&T's Mount Technical Directive.

3.2) Assumptions

1) The antenna mounting system was properly fabricated, installed and maintained in good condition in accordance with its original design and manufacturer's specifications.
2) The configuration of antennas, mounts, and other appurtenances are as specified in Table 1 and the referenced drawings.
3) All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
4) The analysis will be required to be revised if the existing conditions in the field differ from those shown in the above-referenced documents or assumed in this analysis. No allowance was made for any damaged, missing, or rusted members.
5) Prior structural modifications to the tower mounting system are assumed to be installed as shown per available data.
6) Steel grades have been assumed as follows, unless noted otherwise:

Channel, Solid Round, Angle, Plate	ASTM A36 (GR 36)
HSS (Rectangular)	ASTM A500 (GR B-46)
Pipe	ASTM A53 (GR 35)
Connection Bolts	ASTM A325

This analysis may be affected if any assumptions are not valid or have been made in error. Trylon should be notified to determine the effect on the structural integrity of the antenna mounting system.

4) ANALYSIS RESULTS

Table 3 - Mount Component Stresses vs. Capacity (Platform, All Sectors)

Notes	Component	Critical Member	Centerline (ft)	% Capacity	Pass / Fail
1, 2	Mount Pipe(s)	MP2	148.0	55.2	Pass
	Horizontal(s)	H1		65.6	Pass
	Standoff(s)	M1		40.0	Pass
	Bracing(s)	M7		26.2	Pass
	Stabilizer(s)	M77		23.1	Pass
	Handrail(s)	M46A		38.9	Pass
	Mount Connection(s)	-		20.9	Pass

Structure Rating (max from all components) =	65.6%

Notes:
1) See additional documentation in "Appendix C - Software Analysis Output" for calculations supporting the % capacity consumed.
2) See additional documentation in "Appendix D – Additional Calculations" for detailed mount connection calculations.

4.1) Recommendations

The mount has sufficient capacity to carry the proposed loading configuration. In order for the results of the analysis to be considered valid, the structural modifications listed below must be completed.

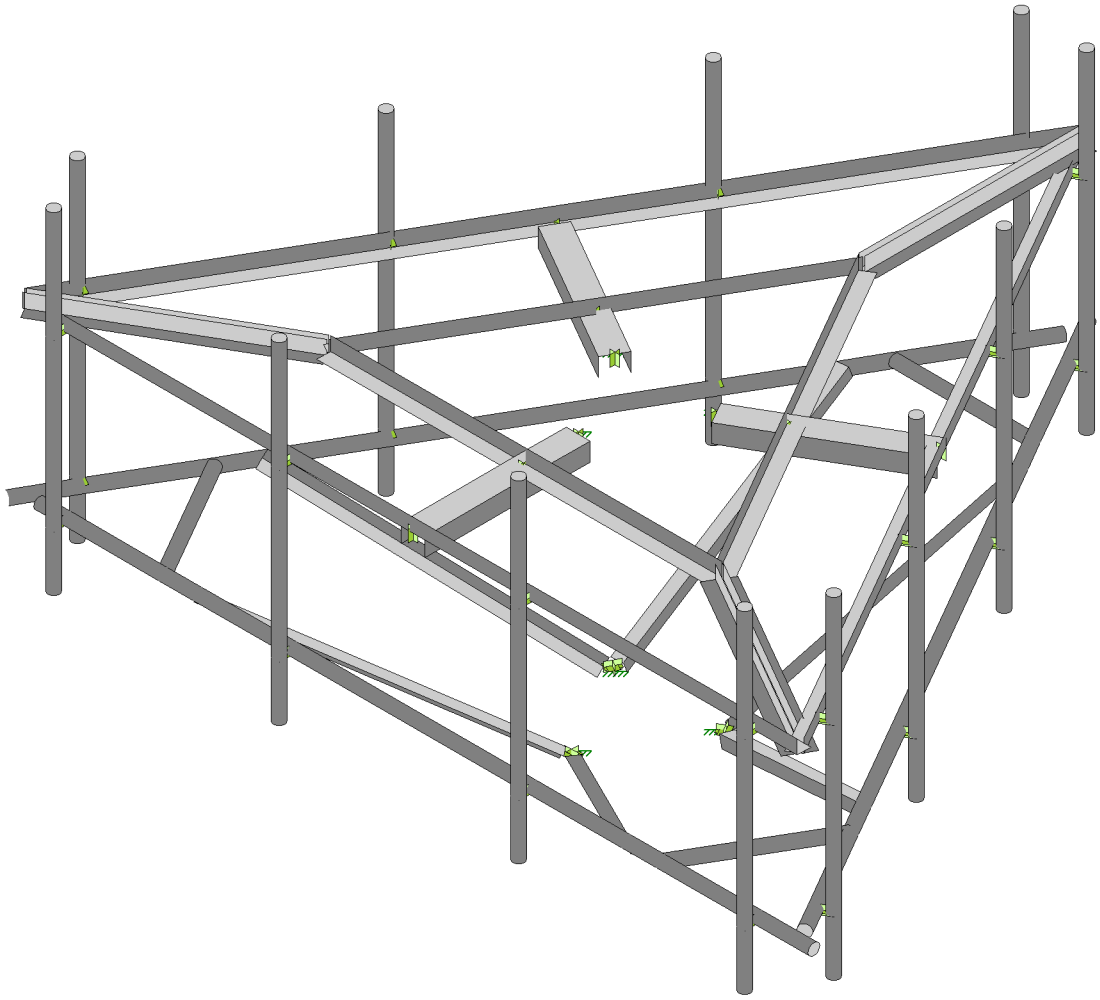
1. Site Pro 1, PRK-SFS-L.
2. Don't remove the unused pipe from position #1 and #4 on each sector.

Category	Classification
Mount Classification (w/ Ice, w/ Vertical Offset):	M1050R(600) - 2[0]

Engineering detail drawings have been provided in Appendix E – Mount Modification Design Drawings. Connection from the mount to the tower and local stresses on the tower are sufficient.

APPENDIX A

WIRE FRAME AND RENDERED MODELS



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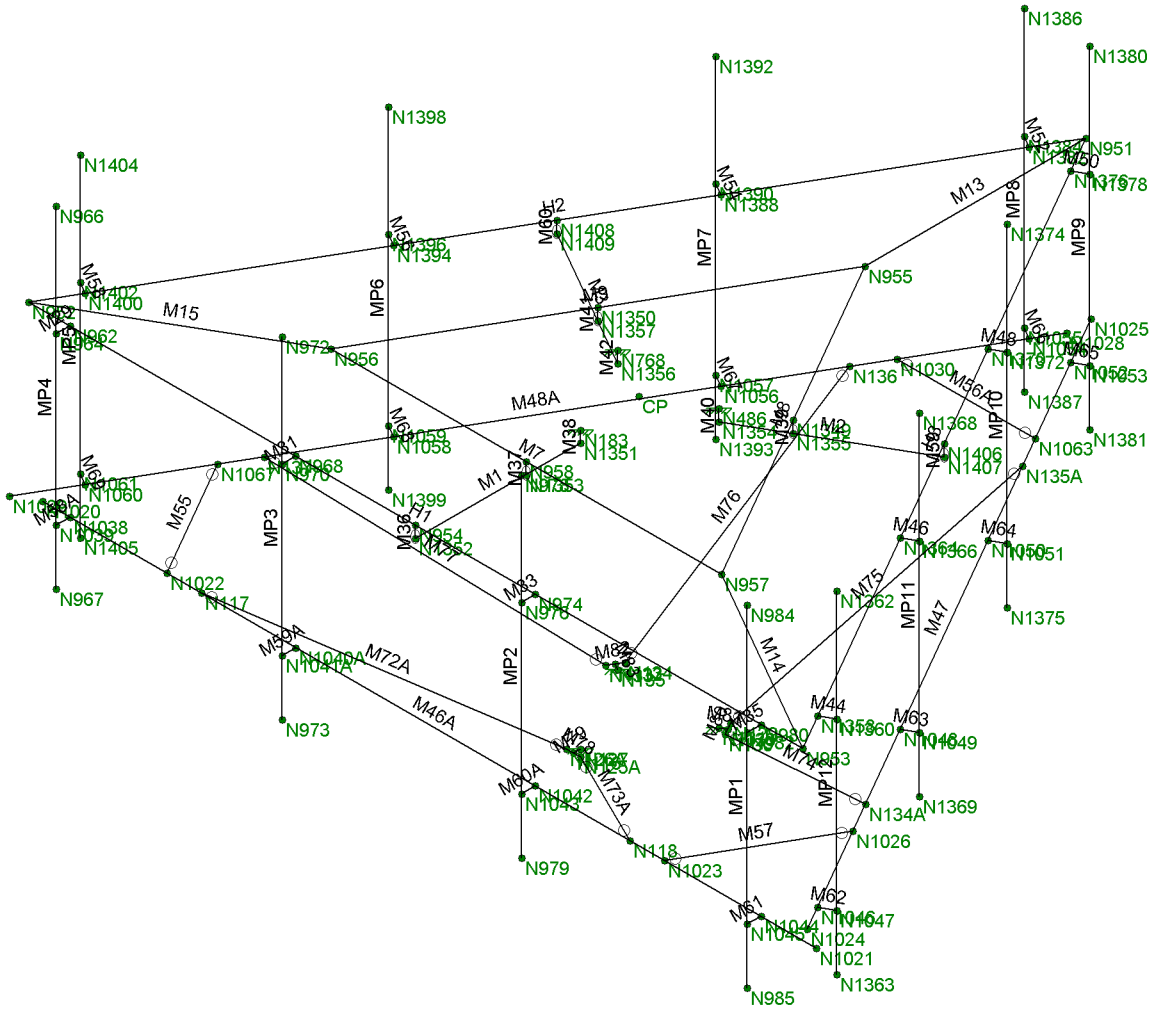

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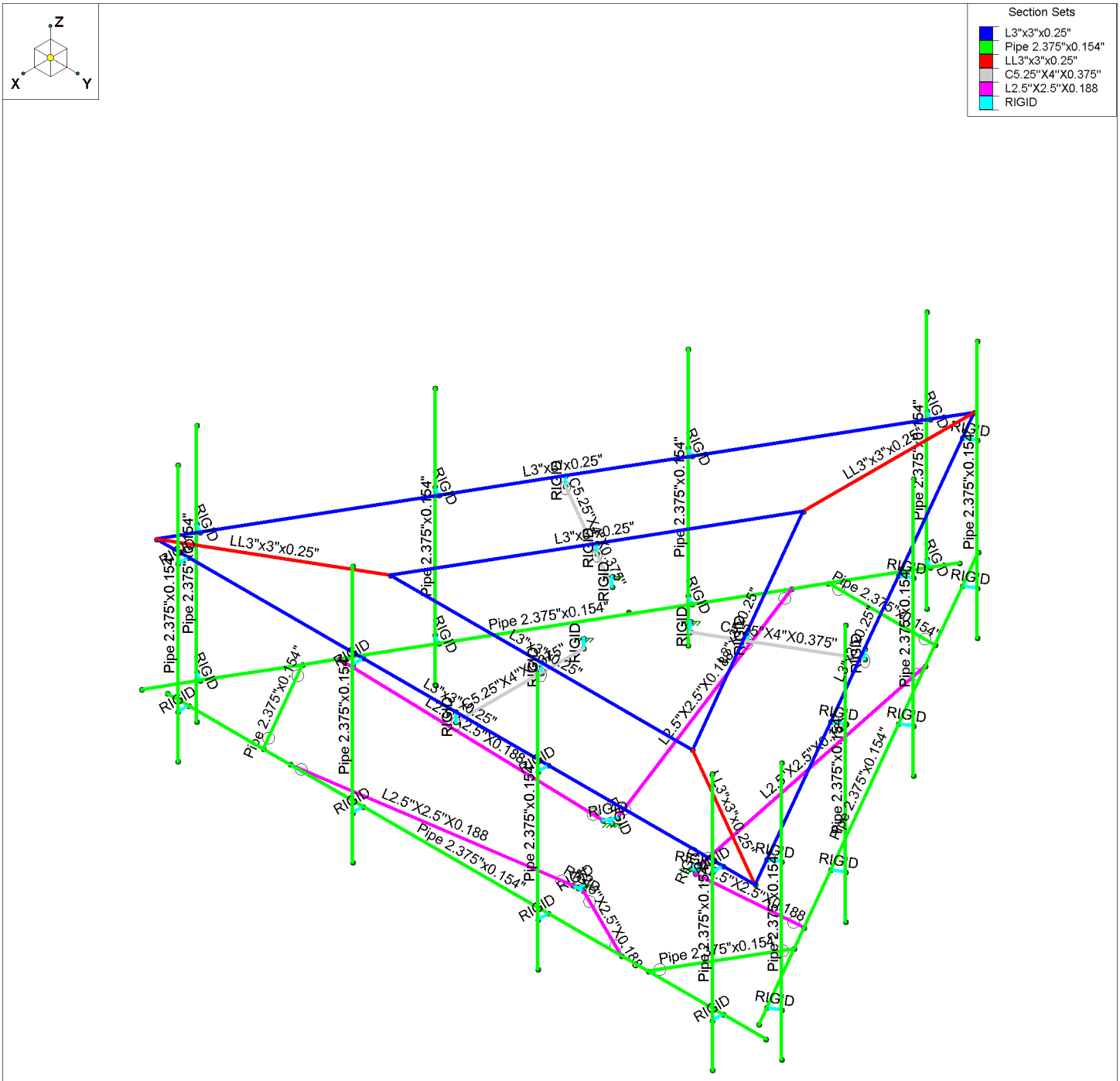

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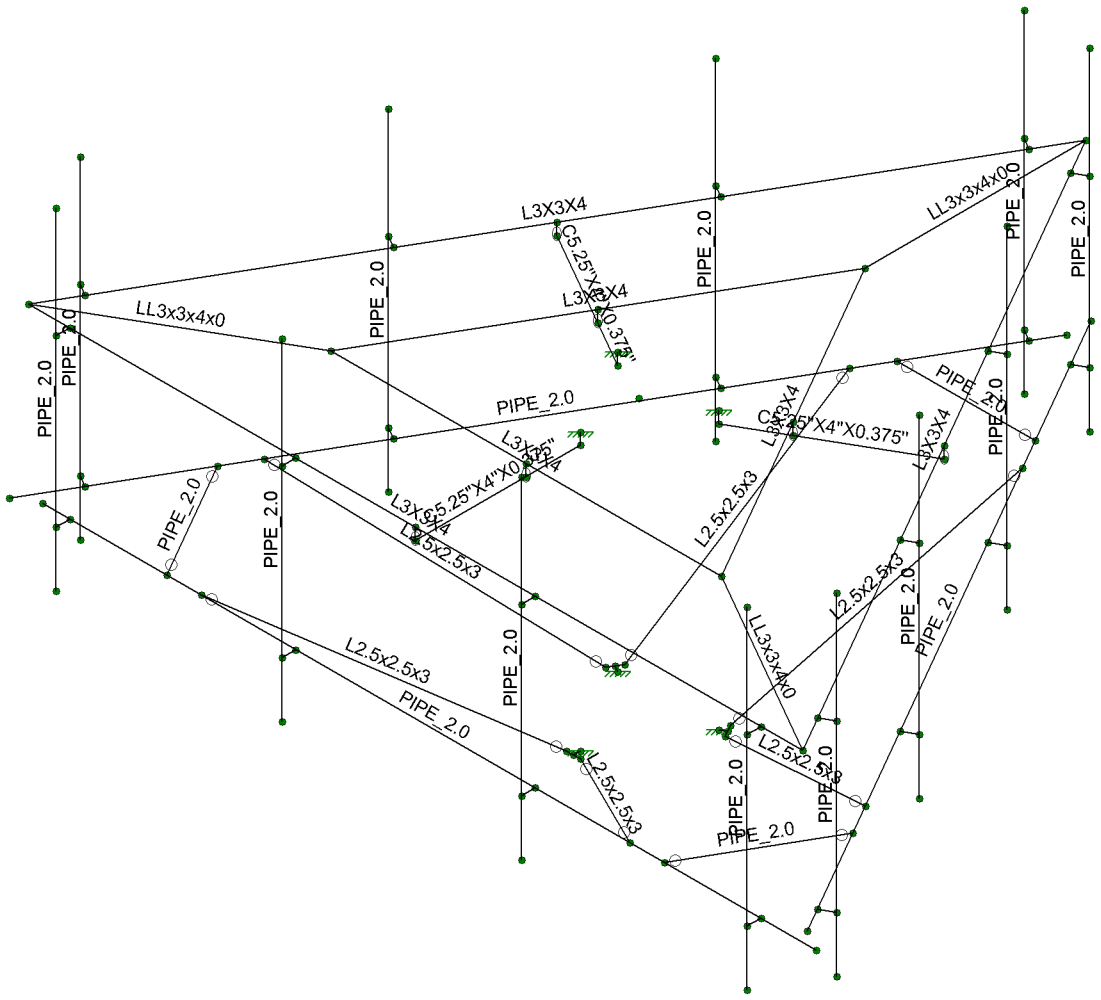

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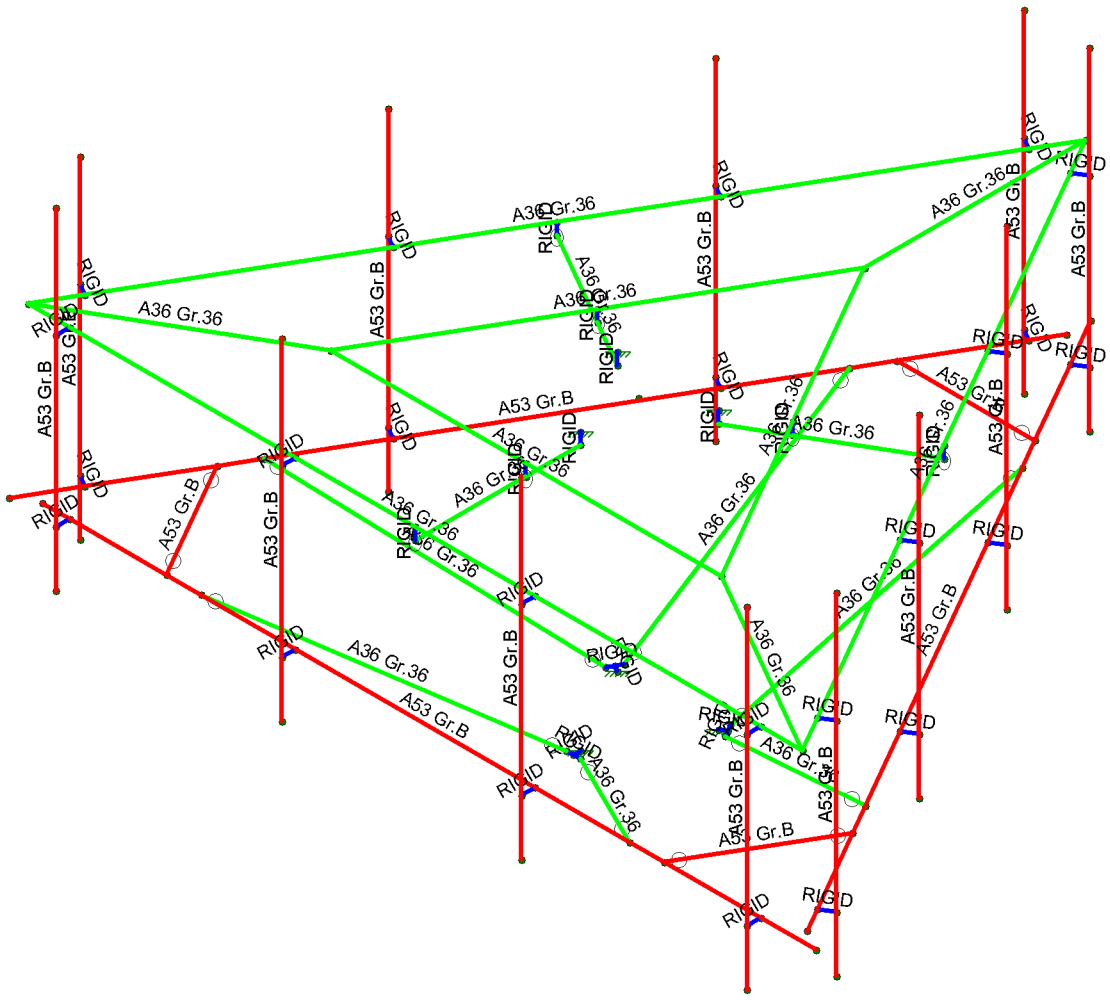

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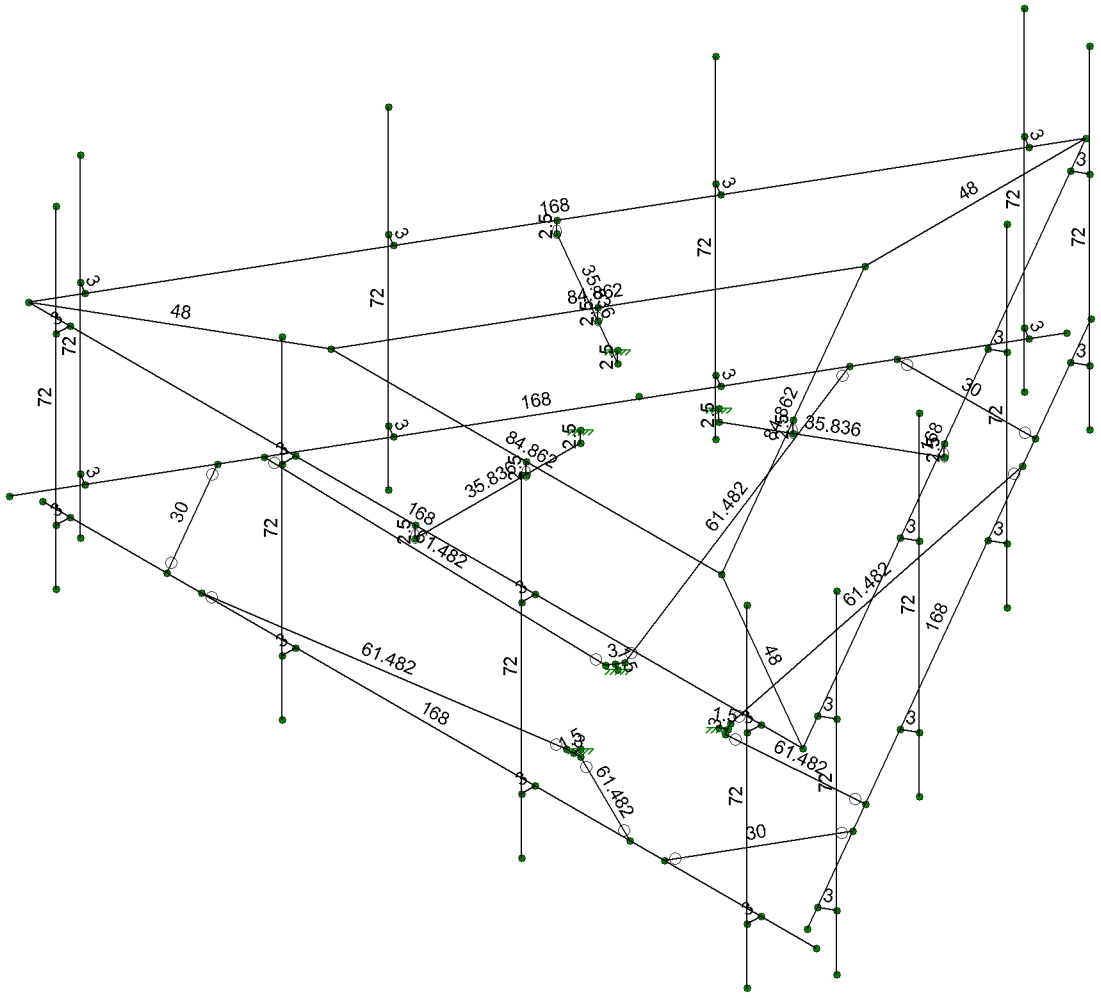

Member Length (in) Displayed
Envelope Only Solution

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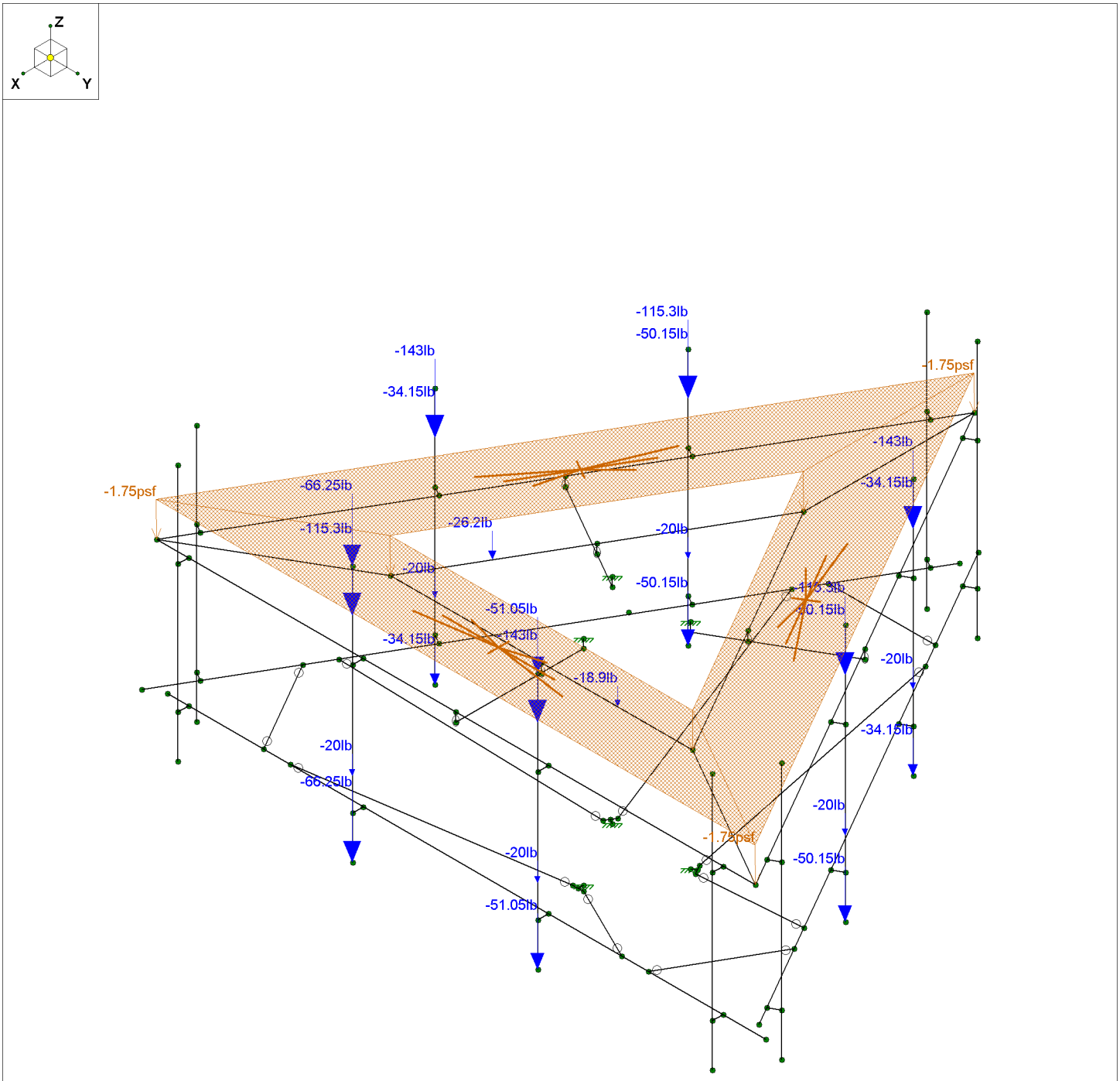

Loads: BLC 1, Self Weight
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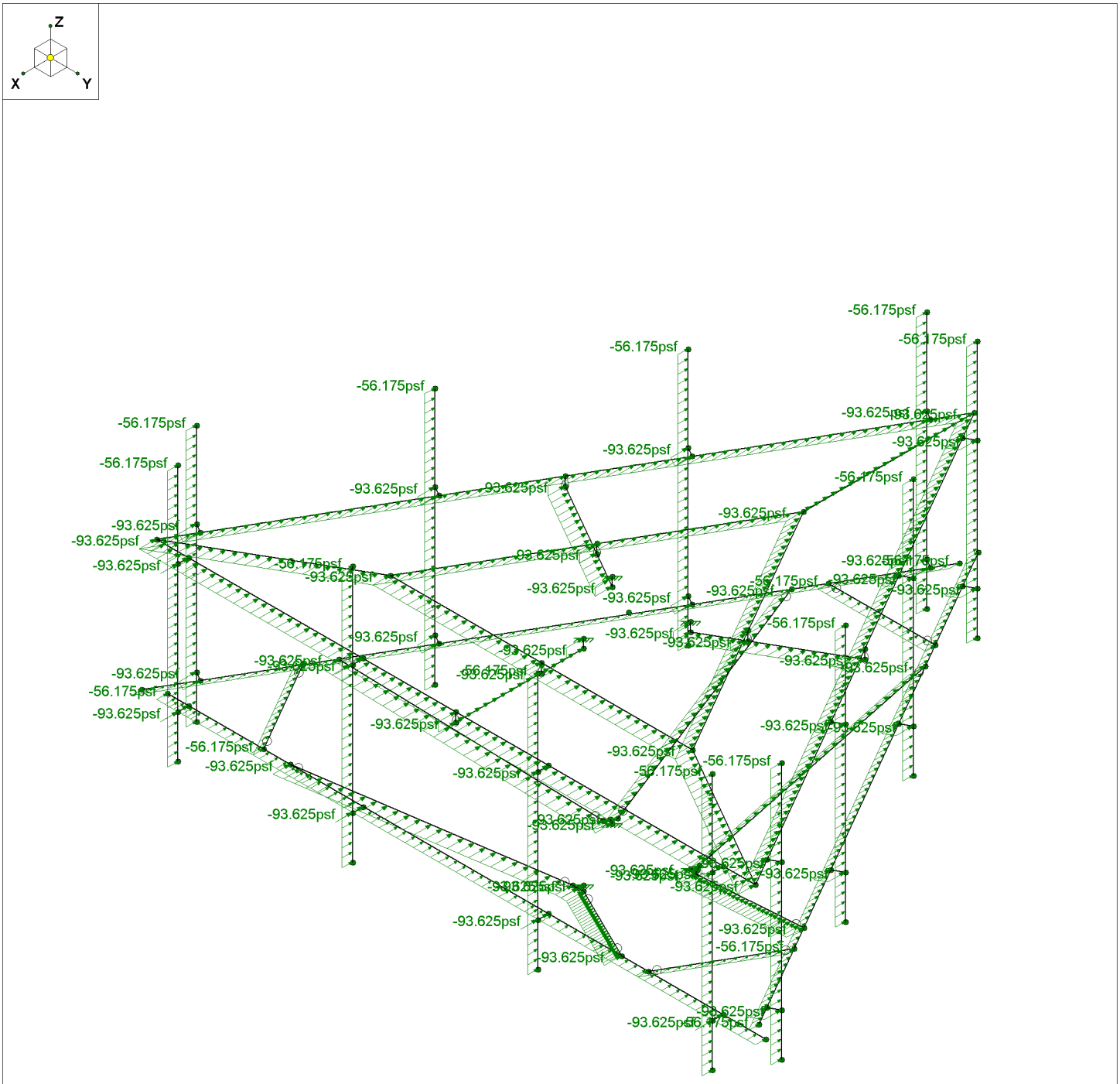

Loads: BLC 2, Structure Wind X
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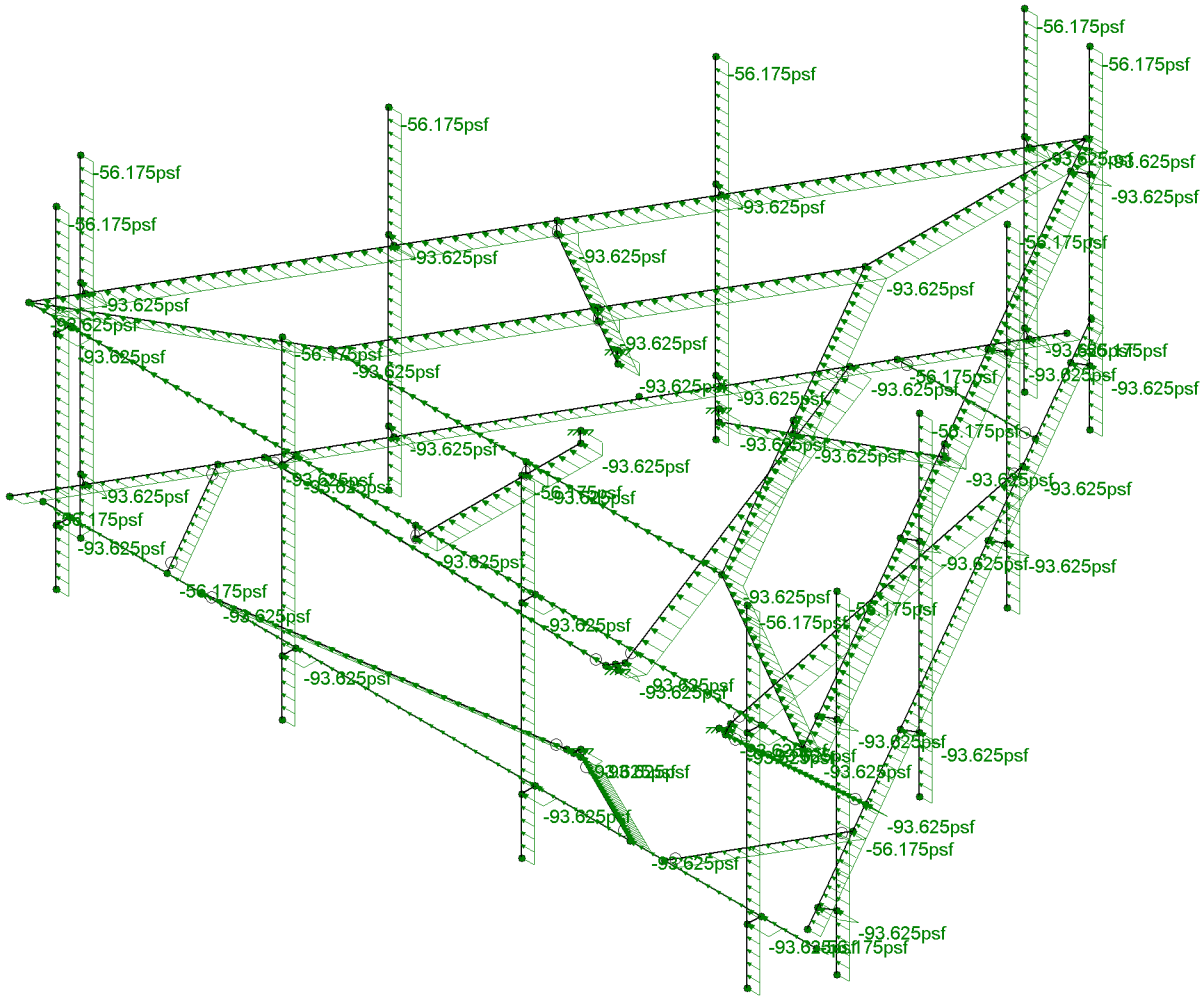

Loads: BLC 3, Structure Wind Y
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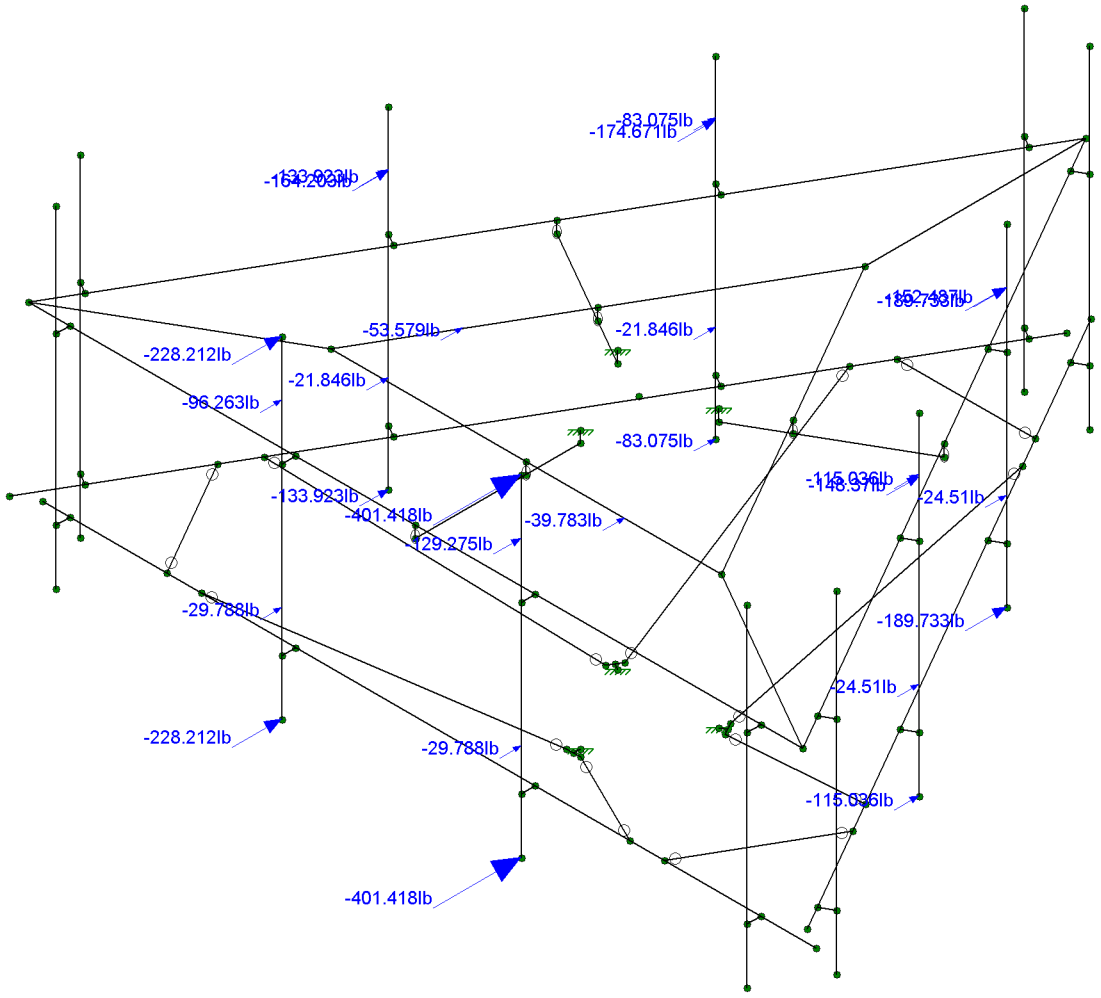

Loads: BLC 4, Wind Load 0 AZI
Envelope Only Solution

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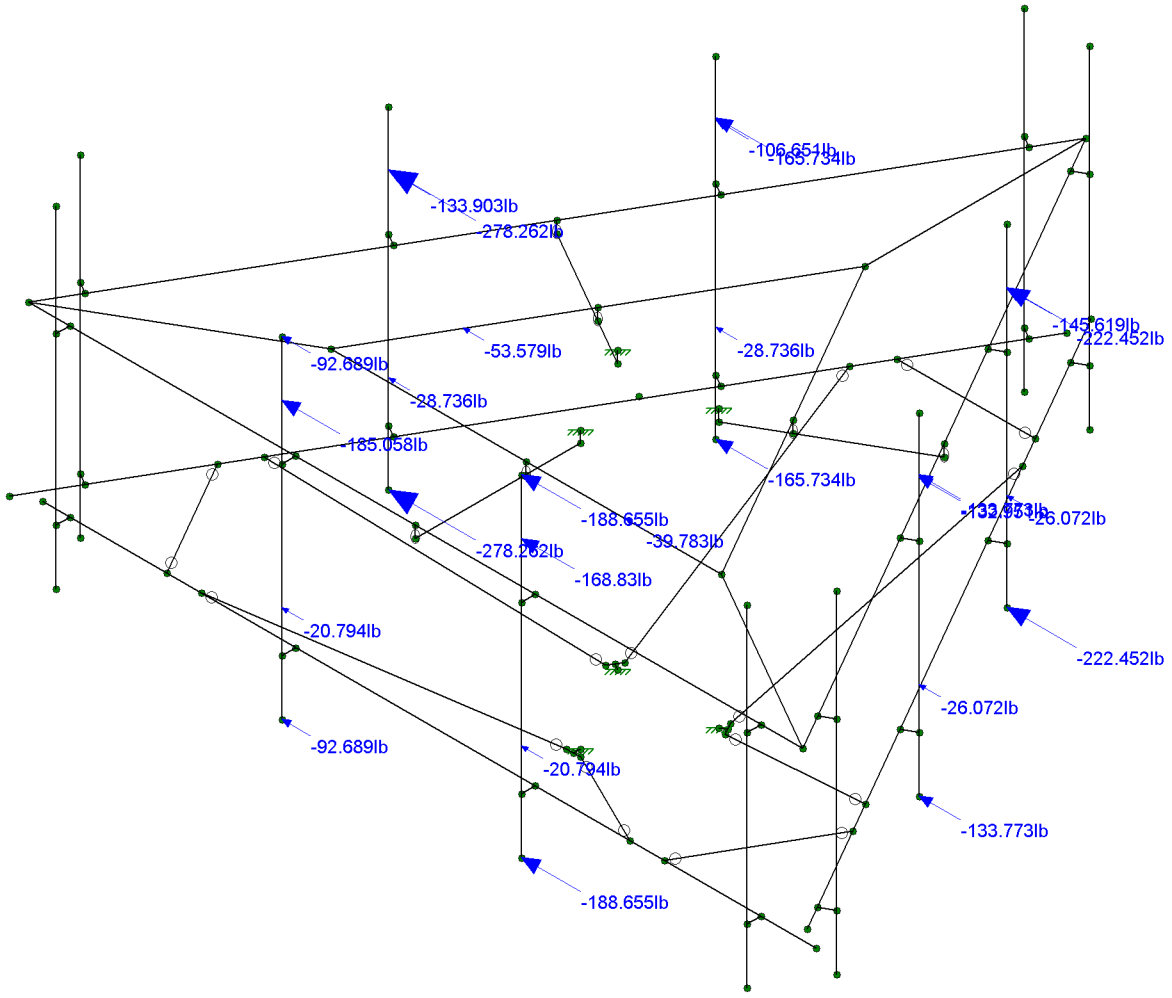

Loads: BLC 8, Wind Load 90 AZI
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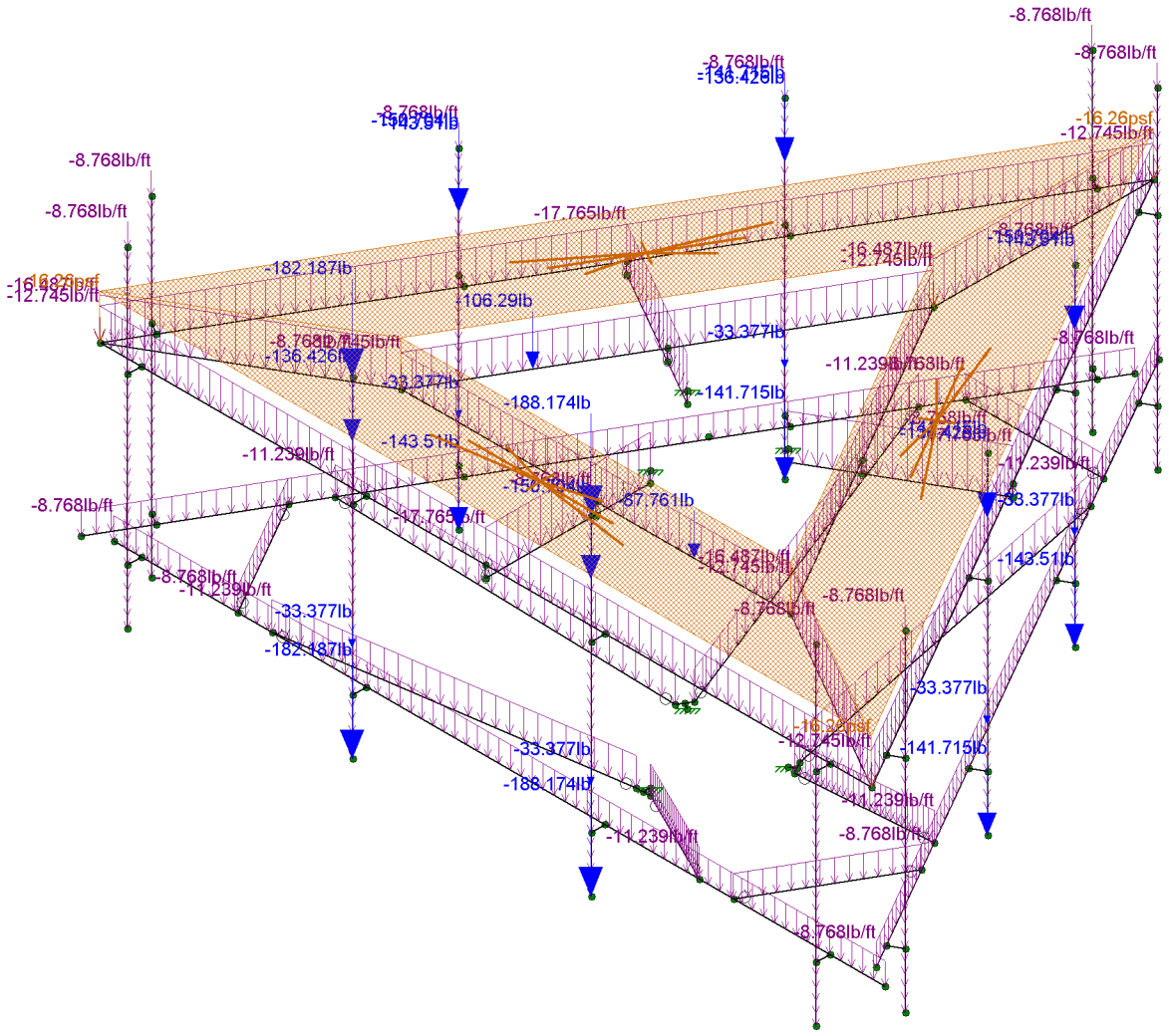

Loads: BLC 12, Ice Weight
Envelope Only Solution

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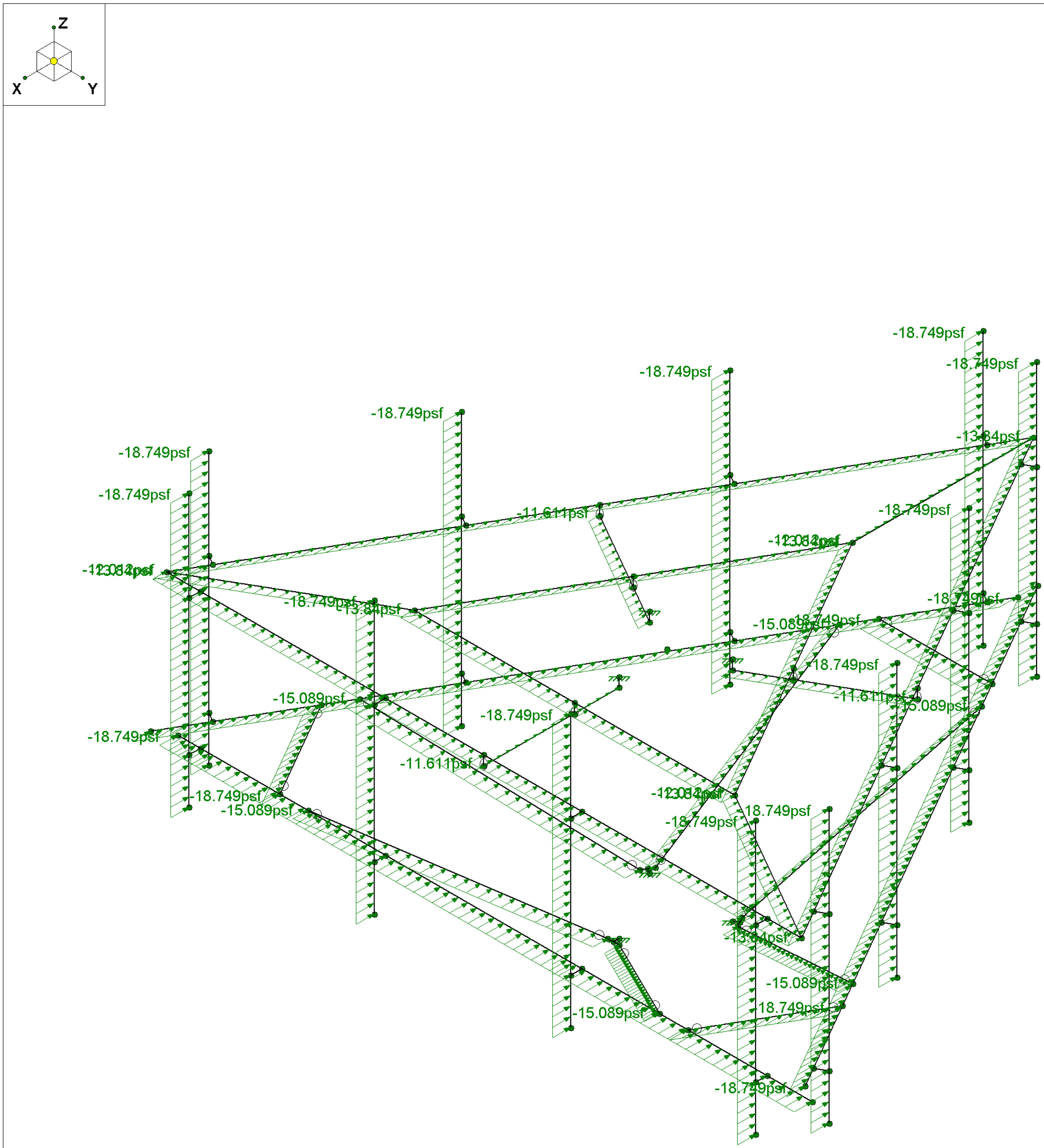

Loads: BLC 13, Ice Structure Wind X
Envelope Only Solution

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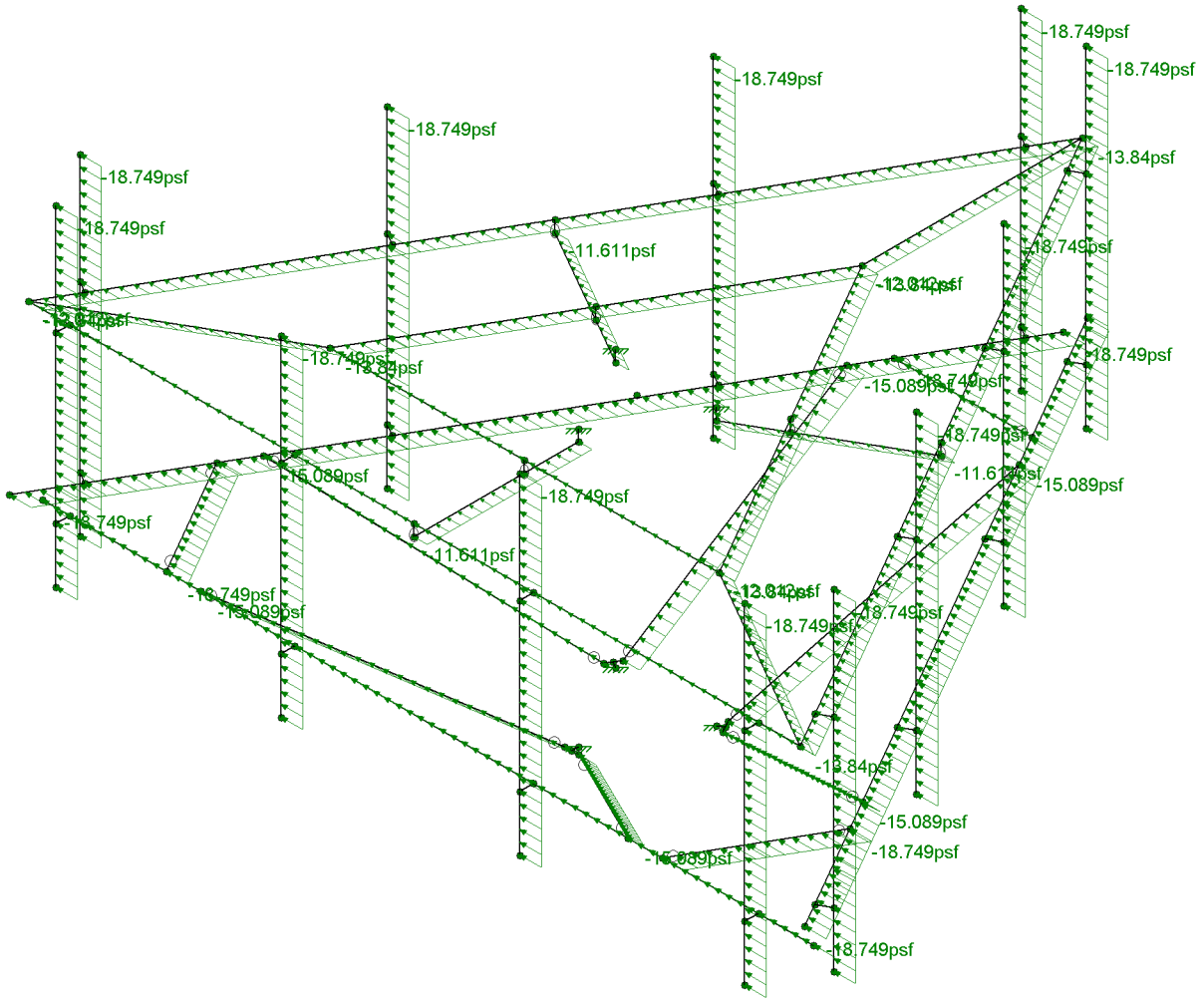

Loads: BLC 14, Ice Structure Wind Y
Envelope Only Solution

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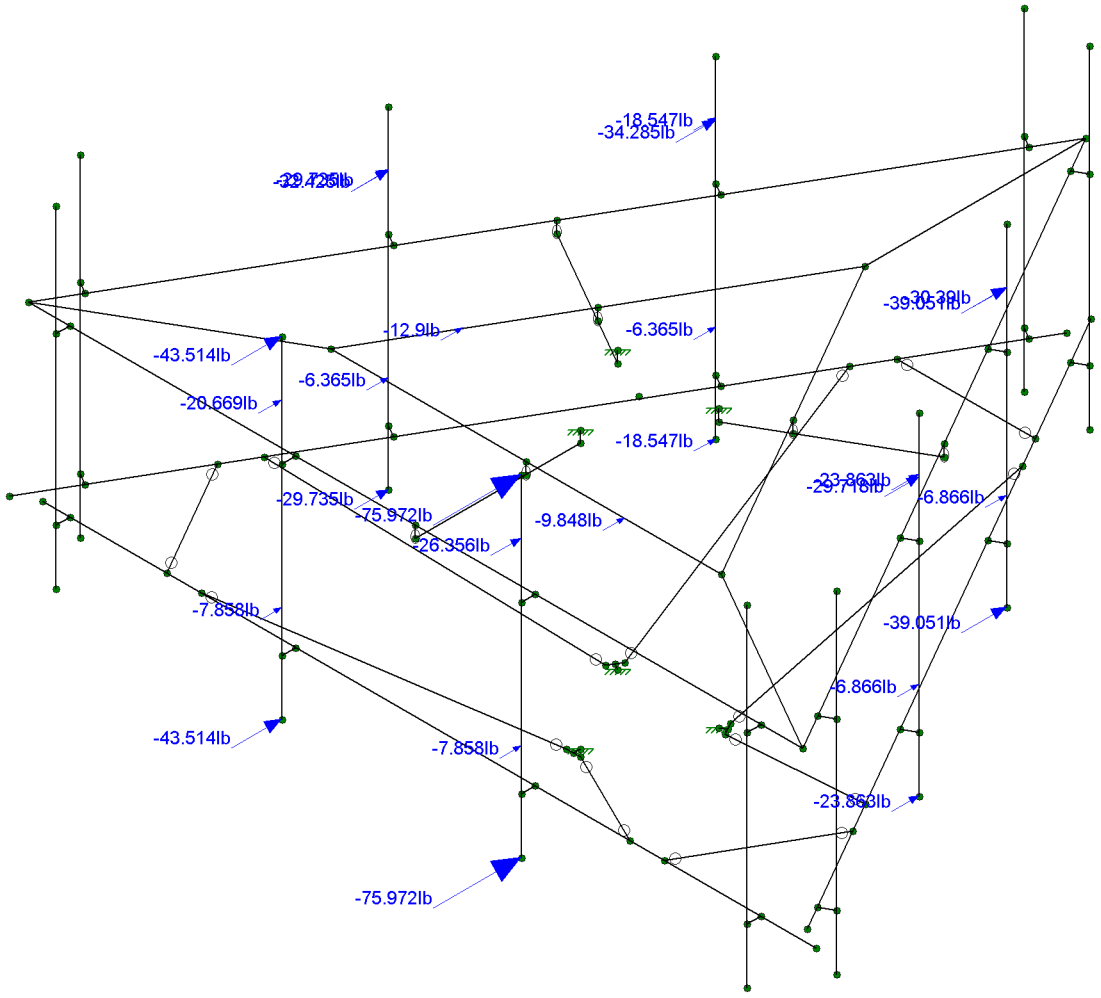

Loads: BLC 15, Ice Wind Load 0 AZI
Envelope Only Solution

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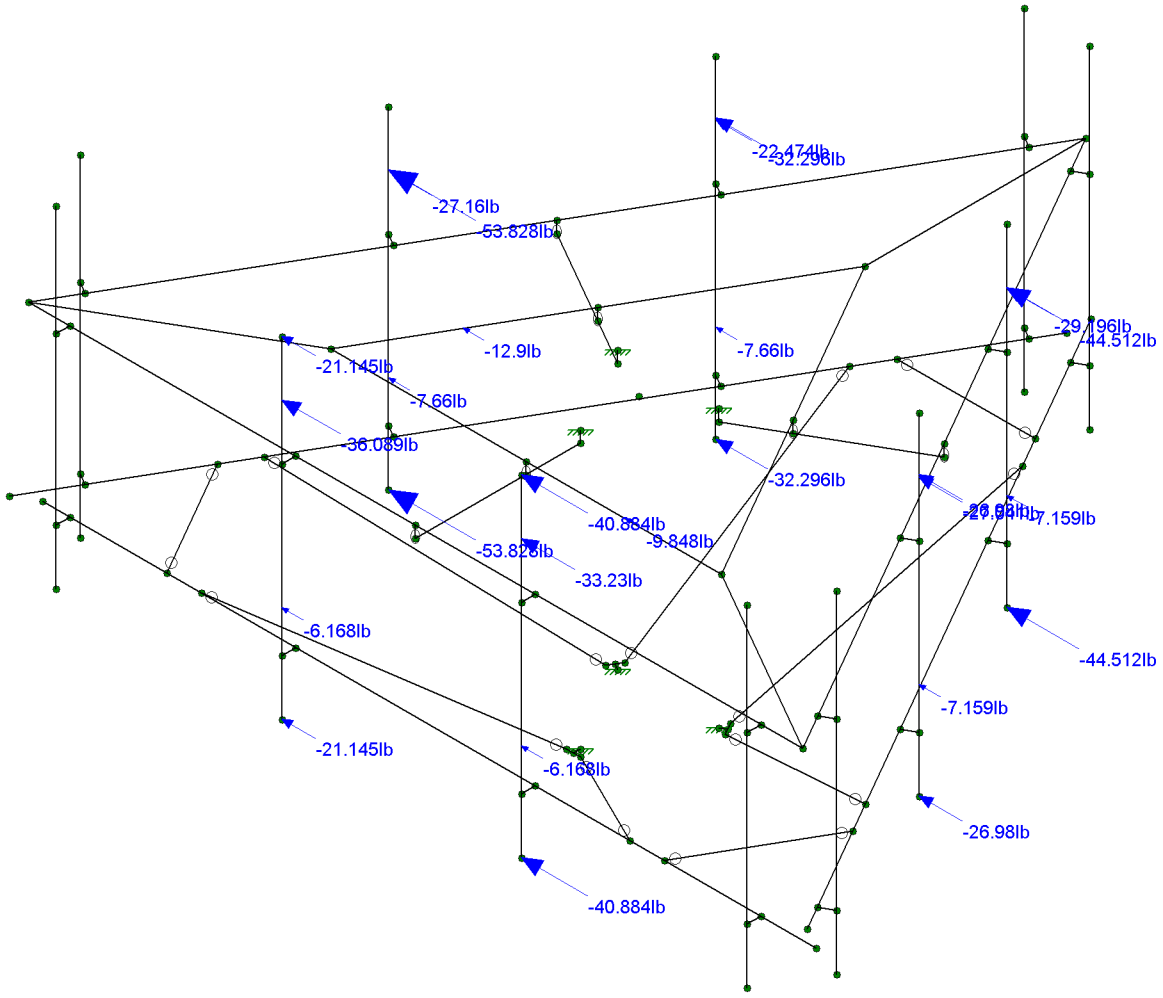

Loads: BLC 19, Ice Wind Load 90 AZI
Envelope Only Solution

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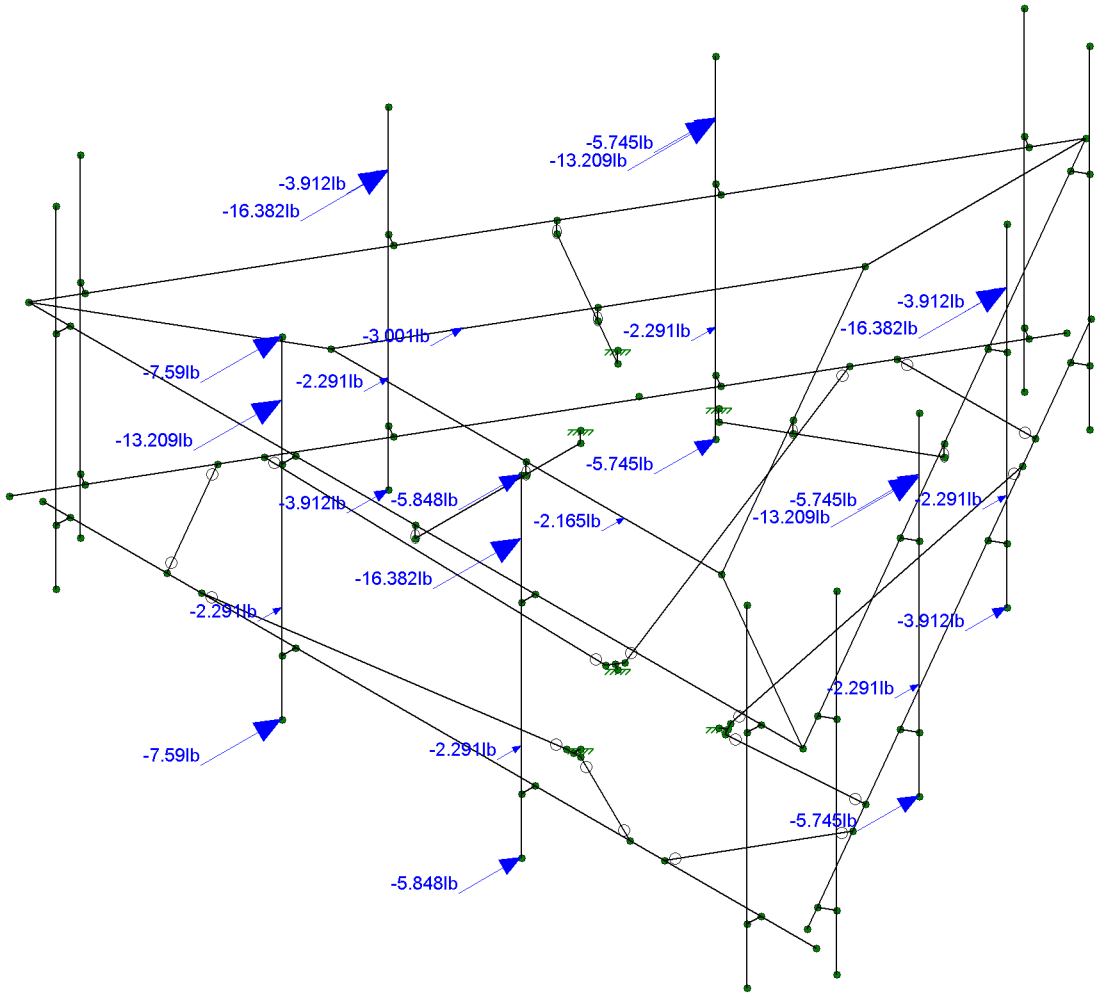

Loads: BLC 23, Seismic Load X
Envelope Only Solution

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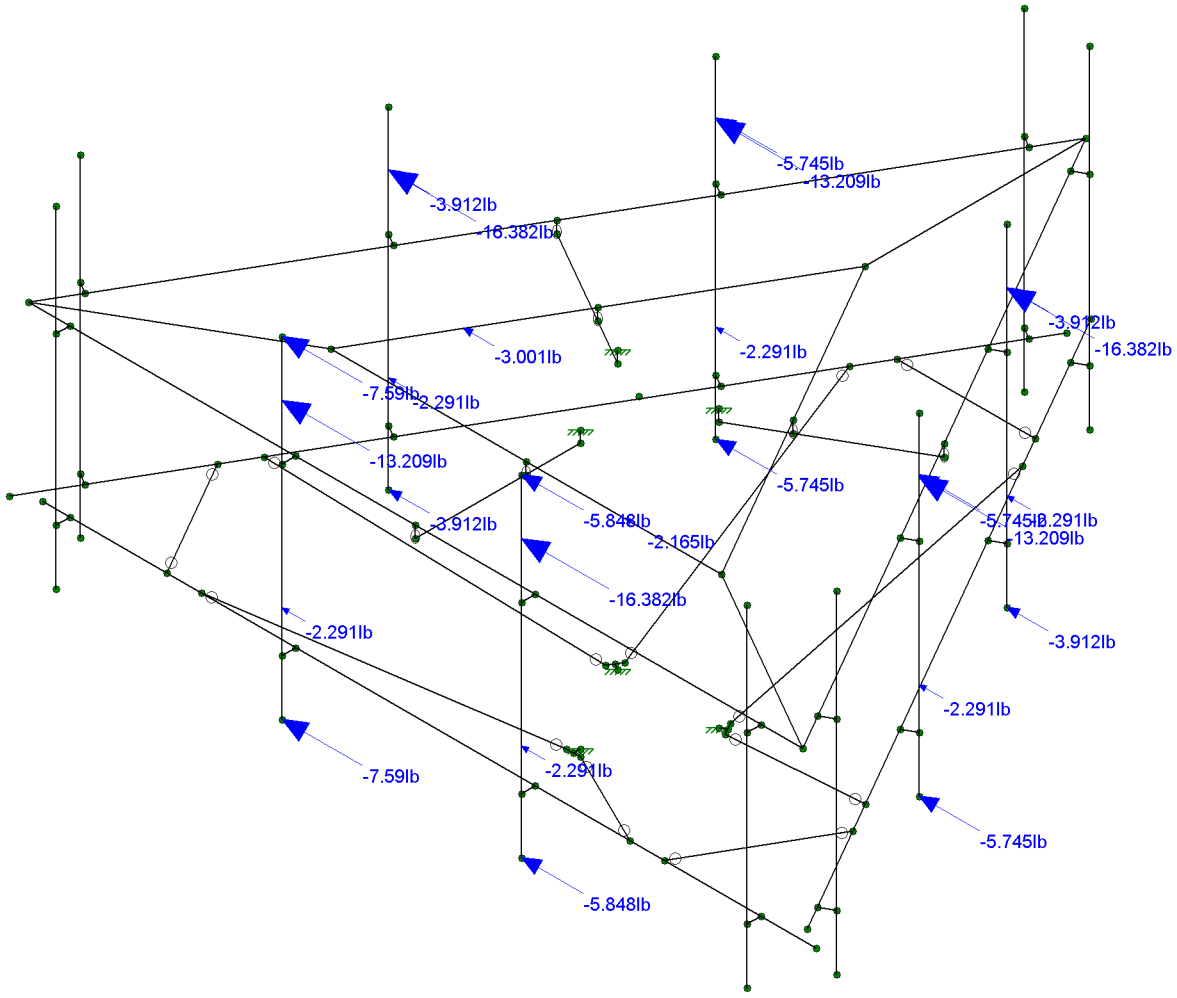

Loads: BLC 24, Seismic Load Y
Envelope Only Solution

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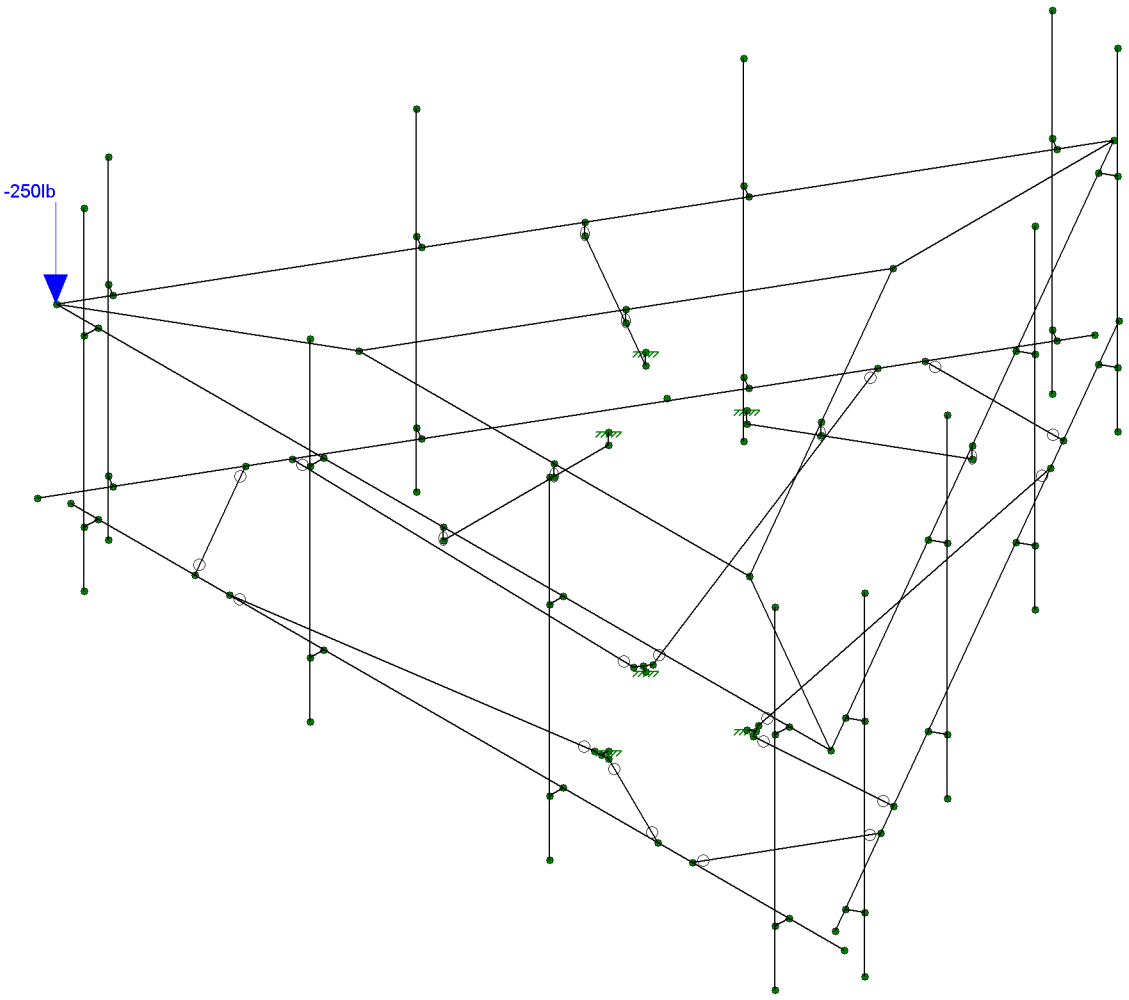

Loads: BLC 25, Live Load 1 (Lv)
Envelope Only Solution

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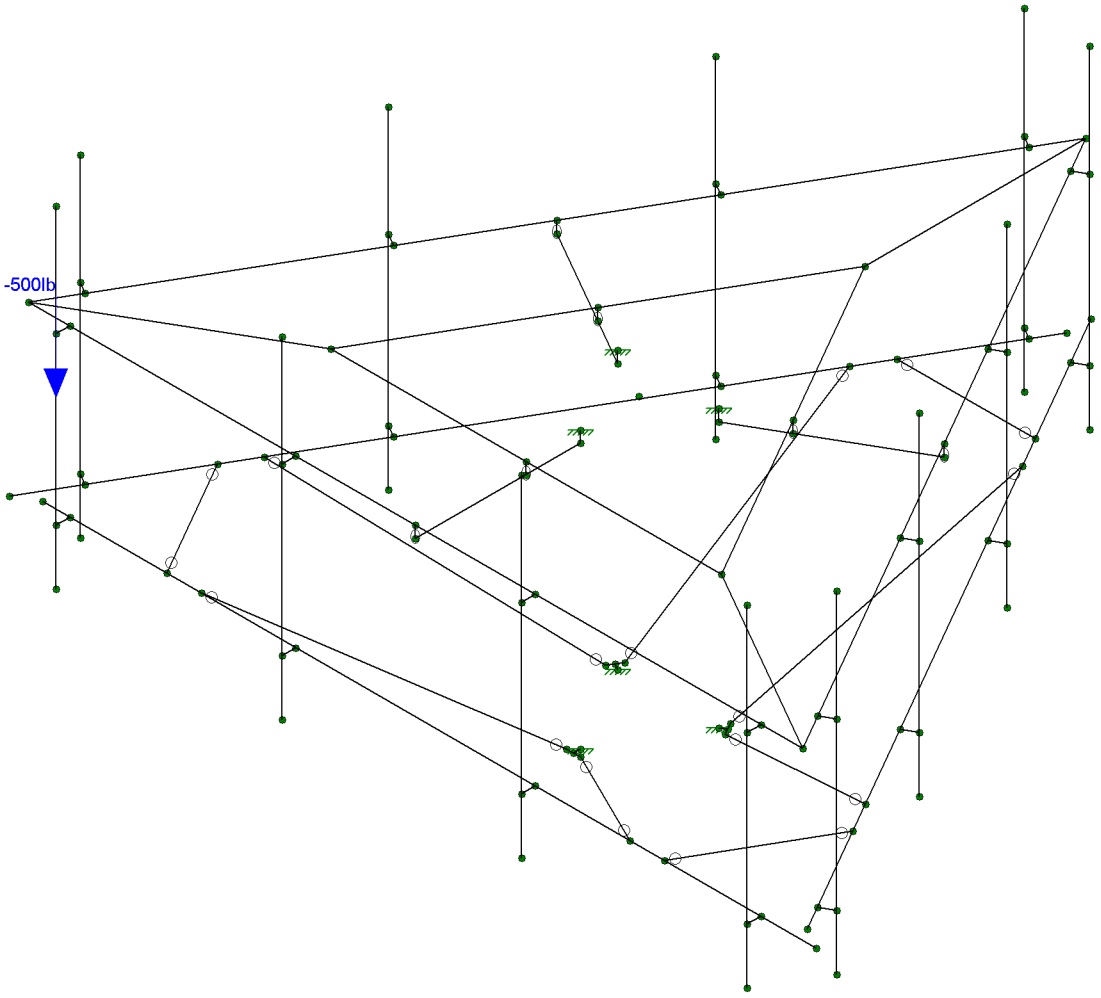

Loads: BLC 34, Maintenance Load 1 (Lm)
Envelope Only Solution

Trylon	855662	SK - 20
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APPENDIX B

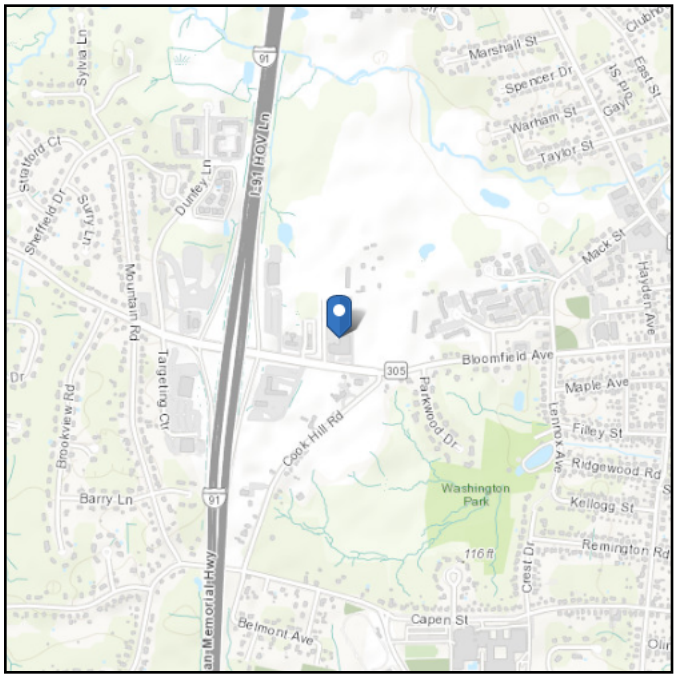
SOFTWARE INPUT CALCULATIONS

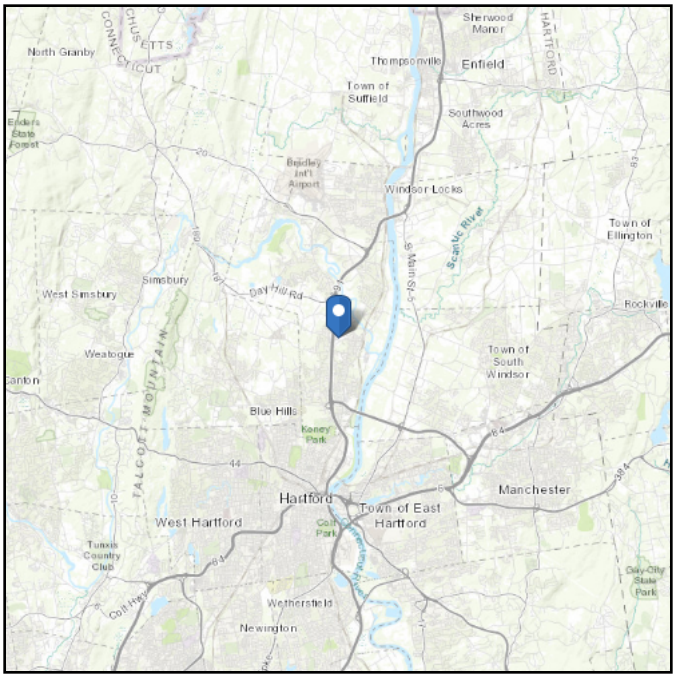
ASCE 7 Hazards Report

Address:
No Address at This Location

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

Latitude: 41.852594
Longitude: -72.660497
Elevation: 115.16 ft (NAVD 88)





Ice

Results:

Ice Thickness:	1.50 in.
Concurrent Temperature:	5 F
Gust Speed	50 mph

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

Date Accessed: Tue Jan 31 2023

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

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

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

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

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

Trylon
1825 W. Walnut Hill Lane, Suite 120
Irving, Texas 75038

TIA LOAD CALCULATOR 2.2

PROJECT DATA	
Job Code:	223271
Carrier Site ID:	CTL05138
Carrier Site Name:	Windsor Central

CODES AND STANDARDS	
Building Code:	2021 IBC
Local Building Code:	2022 CT State Building Cod
Design Standard:	TIA-222-H

STRUCTURE DETAILS		
Mount Type:	Platform	--
Mount Elevation:	148.0	ft.
Number of Sectors:	3	--
Structure Type:	Monopole	--
Structure Height:	148.0	ft.

ANALYSIS CRITERIA		
Structure Risk Category:	II	--
Exposure Category:	C	--
Site Class:	D - Default	--
Ground Elevation:	115.16	ft.

TOPOGRAPHIC DATA		
Topographic Category:	1.00	--
Topographic Feature:	N/A	--
Crest Point Elevation:	0.00	ft.
Base Point Elevation:	0.00	ft.
Crest to Mid-Height (L/2):	0.00	ft.
Distance from Crest (x):	0.00	ft.
Base Topo Factor (K_{zt}):	1.00	--
Mount Topo Factor (K_{zt}):	1.00	--

WIND PARAMETERS		
Design Wind Speed:	125	mph
Wind Escalation Factor (K_s):	1.00	--
Velocity Coefficient (K_z):	1.37	--
Directionality Factor (K_d):	0.95	--
Gust Effect Factor (Gh):	1.00	--
Shielding Factor (K_a):	0.90	--
Velocity Pressure (q_z):	52.01	psf
Ground Elevation Factor (K_e):	1.00	--

ICE PARAMETERS		
Design Ice Wind Speed:	50	mph
Design Ice Thickness (t_i):	1.50	in
Importance Factor (I_i):	1.00	--
Ice Velocity Pressure (q_{zi}):	7.04	psf
Mount Ice Thickness (t_{iz}):	1.74	in

WIND STRUCTURE CALCULATIONS		
Flat Member Pressure:	93.63	psf
Round Member Pressure:	56.18	psf
Ice Wind Pressure:	7.60	psf

SEISMIC PARAMETERS		
Importance Factor (I_e):	1.00	--
Short Period Accel .(S_s):	0.179	g
1 Second Accel (S_1):	0.064	g
Short Period Des. (S_{DS}):	0.19	g
1 Second Des. (S_{D1}):	0.10	g
Short Period Coeff. (F_a):	1.60	--
1 Second Coeff. (F_v):	2.40	--
Response Coefficient (Cs):	0.10	--
Amplification Factor (A_S):	1.20	--

LOAD COMBINATIONS [LRFD]

#	Description
1	1.4DL
2	1.2DL + 1WL 0 AZI
3	1.2DL + 1WL 30 AZI
4	1.2DL + 1WL 45 AZI
5	1.2DL + 1WL 60 AZI
6	1.2DL + 1WL 90 AZI
7	1.2DL + 1WL 120 AZI
8	1.2DL + 1WL 135 AZI
9	1.2DL + 1WL 150 AZI
10	1.2DL + 1WL 180 AZI
11	1.2DL + 1WL 210 AZI
12	1.2DL + 1WL 225 AZI
13	1.2DL + 1WL 240 AZI
14	1.2DL + 1WL 270 AZI
15	1.2DL + 1WL 300 AZI
16	1.2DL + 1WL 315 AZI
17	1.2DL + 1WL 330 AZI
18	0.9DL + 1WL 0 AZI
19	0.9DL + 1WL 30 AZI
20	0.9DL + 1WL 45 AZI
21	0.9DL + 1WL 60 AZI
22	0.9DL + 1WL 90 AZI
23	0.9DL + 1WL 120 AZI
24	0.9DL + 1WL 135 AZI
25	0.9DL + 1WL 150 AZI
26	0.9DL + 1WL 180 AZI
27	0.9DL + 1WL 210 AZI
28	0.9DL + 1WL 225 AZI
29	0.9DL + 1WL 240 AZI
30	0.9DL + 1WL 270 AZI
31	0.9DL + 1WL 300 AZI
32	0.9DL + 1WL 315 AZI
33	0.9DL + 1WL 330 AZI
34	1.2DL + 1DLi + 1WLi 0 AZI
35	1.2DL + 1DLi + 1WLi 30 AZI
36	1.2DL + 1DLi + 1WLi 45 AZI
37	1.2DL + 1DLi + 1WLi 60 AZI
38	1.2DL + 1DLi + 1WLi 90 AZI
39	1.2DL + 1DLi + 1WLi 120 AZI
40	1.2DL + 1DLi + 1WLi 135 AZI
41	1.2DL + 1DLi + 1WLi 150 AZI

#	Description
42	1.2DL + 1DLi + 1WLi 180 AZI
43	1.2DL + 1DLi + 1WLi 210 AZI
44	1.2DL + 1DLi + 1WLi 225 AZI
45	1.2DL + 1DLi + 1WLi 240 AZI
46	1.2DL + 1DLi + 1WLi 270 AZI
47	1.2DL + 1DLi + 1WLi 300 AZI
48	1.2DL + 1DLi + 1WLi 315 AZI
49	1.2DL + 1DLi + 1WLi 330 AZI
50	(1.2+0.2Sds) + 1.0E 0 AZI
51	(1.2+0.2Sds) + 1.0E 30 AZI
52	(1.2+0.2Sds) + 1.0E 45 AZI
53	(1.2+0.2Sds) + 1.0E 60 AZI
54	(1.2+0.2Sds) + 1.0E 90 AZI
55	(1.2+0.2Sds) + 1.0E 120 AZI
56	(1.2+0.2Sds) + 1.0E 135 AZI
57	(1.2+0.2Sds) + 1.0E 150 AZI
58	(1.2+0.2Sds) + 1.0E 180 AZI
59	(1.2+0.2Sds) + 1.0E 210 AZI
60	(1.2+0.2Sds) + 1.0E 225 AZI
61	(1.2+0.2Sds) + 1.0E 240 AZI
62	(1.2+0.2Sds) + 1.0E 270 AZI
63	(1.2+0.2Sds) + 1.0E 300 AZI
64	(1.2+0.2Sds) + 1.0E 315 AZI
65	(1.2+0.2Sds) + 1.0E 330 AZI
66	(0.9-0.2Sds) + 1.0E 0 AZI
67	(0.9-0.2Sds) + 1.0E 30 AZI
68	(0.9-0.2Sds) + 1.0E 45 AZI
69	(0.9-0.2Sds) + 1.0E 60 AZI
70	(0.9-0.2Sds) + 1.0E 90 AZI
71	(0.9-0.2Sds) + 1.0E 120 AZI
72	(0.9-0.2Sds) + 1.0E 135 AZI
73	(0.9-0.2Sds) + 1.0E 150 AZI
74	(0.9-0.2Sds) + 1.0E 180 AZI
75	(0.9-0.2Sds) + 1.0E 210 AZI
76	(0.9-0.2Sds) + 1.0E 225 AZI
77	(0.9-0.2Sds) + 1.0E 240 AZI
78	(0.9-0.2Sds) + 1.0E 270 AZI
79	(0.9-0.2Sds) + 1.0E 300 AZI
80	(0.9-0.2Sds) + 1.0E 315 AZI
81	(0.9-0.2Sds) + 1.0E 330 AZI
82-88	1.2D + 1.5 Lv1

#	Description
89	1.2D + 1.5Lm + 1.0Wm 0 AZI - MP1
90	1.2D + 1.5Lm + 1.0Wm 30 AZI - MP1
91	1.2D + 1.5Lm + 1.0Wm 45 AZI - MP1
92	1.2D + 1.5Lm + 1.0Wm 60 AZI - MP1
93	1.2D + 1.5Lm + 1.0Wm 90 AZI - MP1
94	1.2D + 1.5Lm + 1.0Wm 120 AZI - MP1
95	1.2D + 1.5Lm + 1.0Wm 135 AZI - MP1
96	1.2D + 1.5Lm + 1.0Wm 150 AZI - MP1
97	1.2D + 1.5Lm + 1.0Wm 180 AZI - MP1
98	1.2D + 1.5Lm + 1.0Wm 210 AZI - MP1
99	1.2D + 1.5Lm + 1.0Wm 225 AZI - MP1
100	1.2D + 1.5Lm + 1.0Wm 240 AZI - MP1
101	1.2D + 1.5Lm + 1.0Wm 270 AZI - MP1
102	1.2D + 1.5Lm + 1.0Wm 300 AZI - MP1
103	1.2D + 1.5Lm + 1.0Wm 315 AZI - MP1
104	1.2D + 1.5Lm + 1.0Wm 330 AZI - MP1
105	1.2D + 1.5Lm + 1.0Wm 0 AZI - MP2
106	1.2D + 1.5Lm + 1.0Wm 30 AZI - MP2
107	1.2D + 1.5Lm + 1.0Wm 45 AZI - MP2
108	1.2D + 1.5Lm + 1.0Wm 60 AZI - MP2
109	1.2D + 1.5Lm + 1.0Wm 90 AZI - MP2
110	1.2D + 1.5Lm + 1.0Wm 120 AZI - MP2
111	1.2D + 1.5Lm + 1.0Wm 135 AZI - MP2
112	1.2D + 1.5Lm + 1.0Wm 150 AZI - MP2
113	1.2D + 1.5Lm + 1.0Wm 180 AZI - MP2
114	1.2D + 1.5Lm + 1.0Wm 210 AZI - MP2
115	1.2D + 1.5Lm + 1.0Wm 225 AZI - MP2
116	1.2D + 1.5Lm + 1.0Wm 240 AZI - MP2
117	1.2D + 1.5Lm + 1.0Wm 270 AZI - MP2
118	1.2D + 1.5Lm + 1.0Wm 300 AZI - MP2
119	1.2D + 1.5Lm + 1.0Wm 315 AZI - MP2
120	1.2D + 1.5Lm + 1.0Wm 330 AZI - MP2

#	Description
121	1.2D + 1.5Lm + 1.0Wm 0 AZI - MP3
122	1.2D + 1.5Lm + 1.0Wm 30 AZI - MP3
123	1.2D + 1.5Lm + 1.0Wm 45 AZI - MP3
124	1.2D + 1.5Lm + 1.0Wm 60 AZI - MP3
125	1.2D + 1.5Lm + 1.0Wm 90 AZI - MP3
126	1.2D + 1.5Lm + 1.0Wm 120 AZI - MP3
127	1.2D + 1.5Lm + 1.0Wm 135 AZI - MP3
128	1.2D + 1.5Lm + 1.0Wm 150 AZI - MP3
129	1.2D + 1.5Lm + 1.0Wm 180 AZI - MP3
130	1.2D + 1.5Lm + 1.0Wm 210 AZI - MP3
131	1.2D + 1.5Lm + 1.0Wm 225 AZI - MP3
132	1.2D + 1.5Lm + 1.0Wm 240 AZI - MP3
133	1.2D + 1.5Lm + 1.0Wm 270 AZI - MP3
134	1.2D + 1.5Lm + 1.0Wm 300 AZI - MP3
135	1.2D + 1.5Lm + 1.0Wm 315 AZI - MP3
136	1.2D + 1.5Lm + 1.0Wm 330 AZI - MP3
137	1.2D + 1.5Lm + 1.0Wm 0 AZI - MP4
138	1.2D + 1.5Lm + 1.0Wm 30 AZI - MP4
139	1.2D + 1.5Lm + 1.0Wm 45 AZI - MP4
140	1.2D + 1.5Lm + 1.0Wm 60 AZI - MP4
141	1.2D + 1.5Lm + 1.0Wm 90 AZI - MP4
142	1.2D + 1.5Lm + 1.0Wm 120 AZI - MP4
143	1.2D + 1.5Lm + 1.0Wm 135 AZI - MP4
144	1.2D + 1.5Lm + 1.0Wm 150 AZI - MP4
145	1.2D + 1.5Lm + 1.0Wm 180 AZI - MP4
146	1.2D + 1.5Lm + 1.0Wm 210 AZI - MP4
147	1.2D + 1.5Lm + 1.0Wm 225 AZI - MP4
148	1.2D + 1.5Lm + 1.0Wm 240 AZI - MP4
149	1.2D + 1.5Lm + 1.0Wm 270 AZI - MP4
150	1.2D + 1.5Lm + 1.0Wm 300 AZI - MP4
151	1.2D + 1.5Lm + 1.0Wm 315 AZI - MP4
152	1.2D + 1.5Lm + 1.0Wm 330 AZI - MP4

*This page shows an example of maintenance loads for (4) pipes, the number of mount pipe LCs may vary per site

EQUIPMENT LOADING

Appurtenance Name	***Qty.***	***Elevation [ft]***	***--***	***EPA_N (ft2)***	***EPA_T (ft2)***	***Weight (lbs)***
TPA65R-BU6DA-K	2	148	No Ice	12.83	4.78	68.30
--	--	--	w/ Ice	15.36	6.96	287.02
TPA65R-BU8DA-K	1	148	No Ice	17.15	8.06	102.10
--	--	--	w/ Ice	20.29	10.92	376.35
NNHHS4-65B-R5-V2	2	148	No Ice	7.62	3.01	100.30
--	--	--	w/ Ice	9.18	4.39	283.43
NNHHS4-65C-R5-V2	1	148	No Ice	9.75	3.96	132.50
--	--	--	w/ Ice	11.62	5.65	364.37
STX61742Q-43	6	148	No Ice	0.32	0.22	10.00
--	--	--	w/ Ice	0.52	0.41	16.69
8863 B77D	3	148	No Ice	1.93	0.81	55.90
--	--	--	w/ Ice	2.36	1.14	62.61
RRUS 4449 B5/B12	3	148	No Ice	1.97	1.41	71.00
--	--	--	w/ Ice	2.40	1.80	77.16
RRUS 4478 B14_CCIV2	3	148	No Ice	2.02	1.25	59.40
--	--	--	w/ Ice	2.46	1.62	73.82
RRUS 8843 B2/B66A	3	148	No Ice	1.64	1.35	72.00
--	--	--	w/ Ice	2.03	1.72	73.55
DC6-48-60-18-8C-EV	1	148	No Ice	1.14	1.14	26.20
--	--	--	w/ Ice	1.72	1.72	106.29
DC6-48-60-18-8F	1	148	No Ice	0.85	0.85	18.90
--	--	--	w/ Ice	1.31	1.31	87.76
STX61742Q-43	6	148	No Ice	0.32	0.22	10.00
--	--	--	w/ Ice	0.52	0.41	16.69
			No Ice			
--	--	--	w/ Ice			
			No Ice			
--	--	--	w/ Ice			
			No Ice			
--	--	--	w/ Ice			
			No Ice			
--	--	--	w/ Ice			
			No Ice			
--	--	--	w/ Ice			
			No Ice			
--	--	--	w/ Ice			
			No Ice			
--	--	--	w/ Ice			
			No Ice			
--	--	--	w/ Ice			
			No Ice			
--	--	--	w/ Ice			
			No Ice			
--	--	--	w/ Ice			

EQUIPMENT LOADING [CONT.]

Appurtenance Name	Qty.	Elevation [ft]	--	EPA $_N$ (ft2)	EPA $_T$ (ft2)	Weight (lbs)
			No Ice			
--	--	--	w/ Ice			
			No Ice			
--	--	--	w/ Ice			
			No Ice			
--	--	--	w/ Ice			
			No Ice			
--	--	--	w/ Ice			
			No Ice			
--	--	--	w/ Ice			
			No Ice			
--	--	--	w/ Ice			
			No Ice			
--	--	--	w/ Ice			
			No Ice			
--	--	--	w/ Ice			
			No Ice			
--	--	--	w/ Ice			
			No Ice			
--	--	--	w/ Ice			
			No Ice			
--	--	--	w/ Ice			
			No Ice			
--	--	--	w/ Ice			

EQUIPMENT WIND CALCULATIONS

Appurtenance Name	Qty.	Elevation [ft]	K_{zt}	K_z	K_d	t_d	q_z [psf]	q_{zi} [psf]
TPA65R-BU6DA-K	2	148	1.00	1.37	0.95	1.74	52.01	8.32
TPA65R-BU8DA-K	1	148	1.00	1.37	0.95	1.74	52.01	8.32
NNHHS4-65B-R5-V2	2	148	1.00	1.37	0.95	1.74	52.01	8.32
NNHHS4-65C-R5-V2	1	148	1.00	1.37	0.95	1.74	52.01	8.32
STX61742Q-43	6	148	1.00	1.37	0.95	1.74	52.01	8.32
8863 B77D	3	148	1.00	1.37	0.95	1.74	52.01	8.32
RRUS 4449 B5/B12	3	148	1.00	1.37	0.95	1.74	52.01	8.32
RRUS 4478 B14_CCIV2	3	148	1.00	1.37	0.95	1.74	52.01	8.32
RRUS 8843 B2/B66A	3	148	1.00	1.37	0.95	1.74	52.01	8.32
DC6-48-60-18-8C-EV	1	148	1.00	1.37	0.95	1.74	52.01	8.32
DC6-48-60-18-8F	1	148	1.00	1.37	0.95	1.74	52.01	8.32
STX61742Q-43	6	148	1.00	1.37	0.95	1.74	52.01	8.32

EQUIPMENT LATERAL WIND FORCE CALCULATIONS

Appurtenance Name	Qty.	--	0° 180°	30° 210°	60° 240°	90° 270°	120° 300°	150° 330°
TPA65R-BU6DA-K	2	No Ice	600.61	317.97	506.40	223.76	506.40	317.97
--	--	w/ Ice	115.01	67.84	99.29	52.11	99.29	67.84
TPA65R-BU8DA-K	1	No Ice	802.84	483.69	696.45	377.31	696.45	483.69
--	--	w/ Ice	151.94	99.31	134.40	81.77	134.40	99.31
NNHHS4-65B-R5-V2	2	No Ice	356.71	194.86	302.76	140.91	302.76	194.86
--	--	w/ Ice	68.79	41.87	59.82	32.89	59.82	41.87
NNHHS4-65C-R5-V2	1	No Ice	456.42	253.14	388.66	185.38	388.66	253.14
--	--	w/ Ice	87.03	53.47	75.84	42.29	75.84	53.47
STX61742Q-43	6	No Ice	14.89	11.52	13.77	10.40	13.77	11.52
--	--	w/ Ice	3.93	3.30	3.72	3.08	3.72	3.30
8863 B77D	3	No Ice	90.44	51.07	77.32	37.94	77.32	51.07
--	--	w/ Ice	17.66	10.79	15.37	8.51	15.37	10.79
RRUS 4449 B5/B12	3	No Ice	92.10	72.46	85.56	65.92	85.56	72.46
--	--	w/ Ice	17.99	14.60	16.86	13.46	16.86	14.60
RRUS 4478 B14_CCIV2	3	No Ice	94.62	67.40	85.54	58.32	85.54	67.40
--	--	w/ Ice	18.43	13.73	16.86	12.16	16.86	13.73
RRUS 8843 B2/B66A	3	No Ice	76.73	66.70	73.38	63.36	73.38	66.70
--	--	w/ Ice	15.24	13.48	14.65	12.89	14.65	13.48
DC6-48-60-18-8C-EV	1	No Ice	53.58	53.58	53.58	53.58	53.58	53.58
--	--	w/ Ice	12.90	12.90	12.90	12.90	12.90	12.90
DC6-48-60-18-8F	1	No Ice	39.78	39.78	39.78	39.78	39.78	39.78
--	--	w/ Ice	9.85	9.85	9.85	9.85	9.85	9.85
STX61742Q-43	6	No Ice	14.89	11.52	13.77	10.40	13.77	11.52
--	--	w/ Ice	3.93	3.30	3.72	3.08	3.72	3.30
		No Ice						
--	--	w/ Ice						
		No Ice						
--	--	w/ Ice						
		No Ice						
--	--	w/ Ice						
		No Ice						
--	--	w/ Ice						
		No Ice						
--	--	w/ Ice						
		No Ice						
--	--	w/ Ice						
		No Ice						
--	--	w/ Ice						
		No Ice						
--	--	w/ Ice						
		No Ice						
--	--	w/ Ice						
		No Ice						
--	--	w/ Ice						

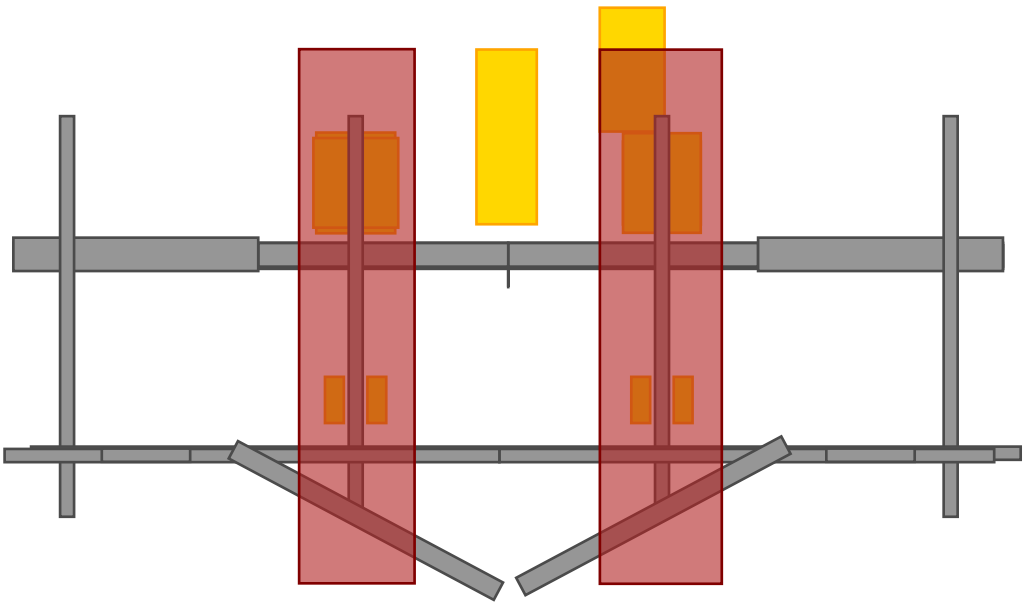
EQUIPMENT LATERAL WIND FORCE CALCULATIONS [CONT.]

Appurtenance Name	*Qty.*	*--*	*0° 180°*	*30° 210°*	*60° 240°*	*90° 270°*	*120° 300°*	*150° 330°*
		No Ice						
--	--	w/ Ice						
		No Ice						
--	--	w/ Ice						
		No Ice						
--	--	w/ Ice						
		No Ice						
--	--	w/ Ice						
		No Ice						
--	--	w/ Ice						
		No Ice						
--	--	w/ Ice						
		No Ice						
--	--	w/ Ice						
		No Ice						
--	--	w/ Ice						
		No Ice						
--	--	w/ Ice						
		No Ice						
--	--	w/ Ice						
		No Ice						
--	--	w/ Ice						
		No Ice						
--	--	w/ Ice						

EQUIPMENT SEISMIC FORCE CALCULATIONS

Appurtenance Name	Qty.	Elevation [ft]	Weight [lbs]	F_p [lbs]
TPA65R-BU6DA-K	2	148	68.3	7.82
TPA65R-BU8DA-K	1	148	102.1	11.70
NNHHS4-65B-R5-V2	2	148	100.3	11.49
NNHHS4-65C-R5-V2	1	148	132.5	15.18
STX61742Q-43	6	148	10	1.15
8863 B77D	3	148	55.9	6.40
RRUS 4449 B5/B12	3	148	71	8.13
RRUS 4478 B14_CCIV2	3	148	59.4	6.80
RRUS 8843 B2/B66A	3	148	72	8.25
DC6-48-60-18-8C-EV	1	148	26.2	3.00
DC6-48-60-18-8F	1	148	18.9	2.17
STX61742Q-43	6	148	10	1.15

ELEVATION VIEW

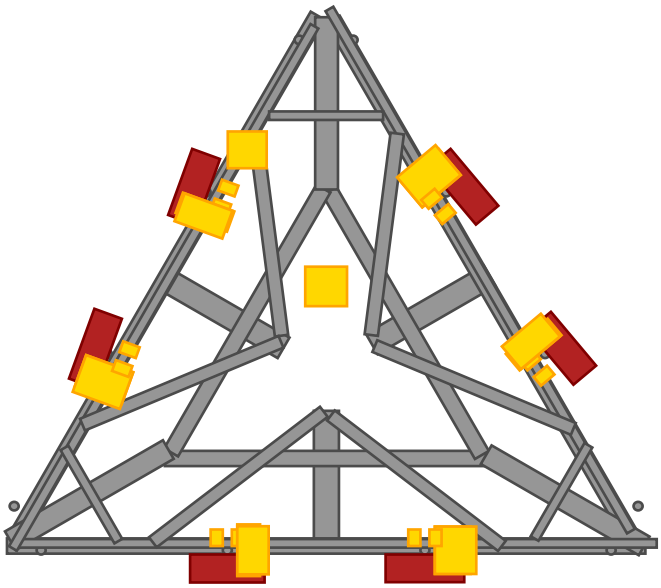


MP4 MP3 MP2 MP1

*these drawings are intended to show approximate locations of equipment on the mount and should not be used to determine exact placement of equipment or additional hardware

**Elevation View Shows Only One Sector

PLAN VIEW



1825 W. Walnut Hill Lane, Suite 120
Irving, Texas 75038

Equipment Name	Total Quantity	Antenna Centerline	Mount Pipe Positions	Equipment Azimuths
TPA65R-BU6DA-K	2	148	MP6/MP10	110/230
TPA65R-BU8DA-K	1	148	MP2	0
NNHHS4-65B-R5-V2	2	148	MP7/MP11	110/230
NNHHS4-65C-R5-V2	1	148	MP3	0
STX61742Q-43	6	148	MP3/MP7/MP11	0/110/230
8863 B77D	3	148	MP3/MP7/MP11	90/200/320
RRUS 4449 B5/B12	3	148	MP2/MP6/MP10	90/200/320
RRUS 4478 B14_CCIV2	3	148	MP3/MP7/MP11	90/200/320
RRUS 8843 B2/B66A	3	148	MP2/MP6/MP10	90/200/320
DC6-48-60-18-8C-EV	1	148	M9	0
DC6-48-60-18-8F	1	148	M7	0
STX61742Q-43	6	148	MP2/MP6/MP10	0/110/230

APPENDIX C

SOFTWARE ANALYSIS OUTPUT

(Global) Model Settings

Display Sections for Member Calcs	5
Max Internal Sections for Member Calcs	97
Include Shear Deformation?	Yes
Increase Nailing Capacity for Wind?	Yes
Include Warping?	Yes
Trans Load Btwn Intersecting Wood Wall?	Yes
Area Load Mesh (in^2)	144
Merge Tolerance (in)	.12
P-Delta Analysis Tolerance	0.50%
Include P-Delta for Walls?	Yes
Automatically Iterate Stiffness for Walls?	Yes
Max Iterations for Wall Stiffness	3
Gravity Acceleration (in/sec^2)	386.4
Wall Mesh Size (in)	24
Eigensolution Convergence Tol. (1.E-)	4
Vertical Axis	Z
Global Member Orientation Plane	XY
Static Solver	Sparse Accelerated
Dynamic Solver	Accelerated Solver

Hot Rolled Steel Code	AISC 15th(360-16): LRFD
Adjust Stiffness?	Yes(Iterative)
RISAConnection Code	AISC 15th(360-16): LRFD
Cold Formed Steel Code	AISI S100-16: LRFD
Wood Code	None
Wood Temperature	< 100F
Concrete Code	None
Masonry Code	None
Aluminum Code	None - Building
Stainless Steel Code	AISC 14th(360-10): LRFD
Adjust Stiffness?	Yes(Iterative)

Number of Shear Regions	4
Region Spacing Increment (in)	4
Biaxial Column Method	Exact Integration
Parme Beta Factor (PCA)	.65
Concrete Stress Block	Rectangular
Use Cracked Sections?	Yes
Use Cracked Sections Slab?	No
Bad Framing Warnings?	No
Unused Force Warnings?	Yes
Min 1 Bar Diam. Spacing?	No
Concrete Rebar Set	REBAR_SET_ASTMA615
Min % Steel for Column	1
Max % Steel for Column	8

(Global) Model Settings, Continued

Seismic Code	ASCE 7-16
Seismic Base Elevation (in)	Not Entered
Add Base Weight?	Yes
Ct X	.02
Ct Z	.02
T X (sec)	Not Entered
T Z (sec)	Not Entered
R X	3
R Z	3
Ct Exp. X	.75
Ct Exp. Z	.75
SD1	1
SDS	1
S1	1
TL (sec)	5
Risk Cat	I or II
Drift Cat	Other
Om Z	1
Om X	1
Cd Z	1
Cd X	1
Rho Z	1
Rho X	1

Hot Rolled Steel Properties

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

Cold Formed Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E5 F)	Density[k/ft^3]	Yield[ksi]	Fu[ksi]
1	A653 SS Gr33	29500	11346	.3	.65	.49	33	45
2	A653 SS Gr50/1	29500	11346	.3	.65	.49	50	65
3	A36	29500	11346	.3	.65	.49	36	58

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	L3"x3"x0.25"	L3X3X4	Beam	Single An...	A36 Gr.36	Typical	1.44	1.23	1.23	.031
2	Pipe 2.375"x0.154"	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
3	LL3"x3"x0.25"	LL3x3x4x0	Beam	Double A...	A36 Gr.36	Typical	2.88	4.5	2.46	.063
4	C5.25"X4"X0.375"	C5.25"X4"X0.375"	Beam	Channel	A36 Gr.36	Typical	4.688	7.568	20.707	.207
5	L2.5"X2.5"X0.188	L2.5x2.5x3	Beam	Single An...	A36 Gr.36	Typical	.901	.535	.535	.011

Cold Formed Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rules	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	C5.25"x4"	C5.25"x4"x0....	Beam	None	A36	Typical	4.446	7.105	19.039	.208

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	N183	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
2	N486	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
3	N768	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
4	N116						
5	N125A						
6	N126A						
7	N127	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
8	N128						
9	N129						
10	N130						
11	N131	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
12	N132						
13	N133						
14	N134						
15	N135	Reaction	Reaction	Reaction	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	N1352	N1351		90	C5.25"X4"X0....	Beam	Channel	A36 Gr.36	Typical
2	M2	N1407	N1354		90	C5.25"X4"X0....	Beam	Channel	A36 Gr.36	Typical
3	M3	N1409	N1356		90	C5.25"X4"X0....	Beam	Channel	A36 Gr.36	Typical
4	H1	N952	N953		270	L3"x3"x0.25"	Beam	Single Angle	A36 Gr.36	Typical
5	H3	N953	N951		270	L3"x3"x0.25"	Beam	Single Angle	A36 Gr.36	Typical
6	H2	N951	N952		270	L3"x3"x0.25"	Beam	Single Angle	A36 Gr.36	Typical
7	M7	N957	N956		270	L3"x3"x0.25"	Beam	Single Angle	A36 Gr.36	Typical
8	M8	N955	N957		270	L3"x3"x0.25"	Beam	Single Angle	A36 Gr.36	Typical
9	M9	N956	N955		270	L3"x3"x0.25"	Beam	Single Angle	A36 Gr.36	Typical
10	M13	N955	N951		180	LL3"x3"x0.25"	Beam	Double Angle (...	A36 Gr.36	Typical
11	M14	N957	N953		180	LL3"x3"x0.25"	Beam	Double Angle (...	A36 Gr.36	Typical
12	M15	N952	N956		180	LL3"x3"x0.25"	Beam	Double Angle (...	A36 Gr.36	Typical
13	MP4	N966	N967			Pipe 2.375"x0....	Beam	Pipe	A53 Gr.B	Typical
14	MP3	N972	N973			Pipe 2.375"x0....	Beam	Pipe	A53 Gr.B	Typical
15	MP2	N978	N979			Pipe 2.375"x0....	Beam	Pipe	A53 Gr.B	Typical
16	MP1	N984	N985			Pipe 2.375"x0....	Beam	Pipe	A53 Gr.B	Typical
17	MP12	N1362	N1363			Pipe 2.375"x0....	Beam	Pipe	A53 Gr.B	Typical
18	MP11	N1368	N1369			Pipe 2.375"x0....	Beam	Pipe	A53 Gr.B	Typical
19	MP10	N1374	N1375			Pipe 2.375"x0....	Beam	Pipe	A53 Gr.B	Typical
20	MP9	N1380	N1381			Pipe 2.375"x0....	Beam	Pipe	A53 Gr.B	Typical
21	MP8	N1386	N1387			Pipe 2.375"x0....	Beam	Pipe	A53 Gr.B	Typical
22	MP7	N1392	N1393			Pipe 2.375"x0....	Beam	Pipe	A53 Gr.B	Typical
23	MP6	N1398	N1399			Pipe 2.375"x0....	Beam	Pipe	A53 Gr.B	Typical
24	MP5	N1404	N1405			Pipe 2.375"x0....	Beam	Pipe	A53 Gr.B	Typical
25	M29	N964	N962			RIGID	None	None	RIGID	Typical
26	M31	N970	N968			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
27	M33	N976	N974			RIGID	None	None	RIGID	Typical
28	M35	N982	N980			RIGID	None	None	RIGID	Typical
29	M36	N1352	N954			RIGID	None	None	RIGID	Typical
30	M37	N1353	N958			RIGID	None	None	RIGID	Typical
31	M38	N1351	N183			RIGID	None	None	RIGID	Typical
32	M39	N1355	N1349			RIGID	None	None	RIGID	Typical
33	M40	N1354	N486			RIGID	None	None	RIGID	Typical
34	M41	N1357	N1350			RIGID	None	None	RIGID	Typical
35	M42	N1356	N768			RIGID	None	None	RIGID	Typical
36	M44	N1360	N1358			RIGID	None	None	RIGID	Typical
37	M46	N1366	N1364			RIGID	None	None	RIGID	Typical
38	M48	N1372	N1370			RIGID	None	None	RIGID	Typical
39	M50	N1378	N1376			RIGID	None	None	RIGID	Typical
40	M52	N1384	N1382			RIGID	None	None	RIGID	Typical
41	M54	N1390	N1388			RIGID	None	None	RIGID	Typical
42	M56	N1396	N1394			RIGID	None	None	RIGID	Typical
43	M58	N1402	N1400			RIGID	None	None	RIGID	Typical
44	M59	N1407	N1406			RIGID	None	None	RIGID	Typical
45	M60	N1409	N1408			RIGID	None	None	RIGID	Typical
46	M46A	N1020	N1021		270	Pipe 2.375"x0....	Beam	Pipe	A53 Gr.B	Typical
47	M47	N1024	N1025		270	Pipe 2.375"x0....	Beam	Pipe	A53 Gr.B	Typical
48	M48A	N1028	N1029		270	Pipe 2.375"x0....	Beam	Pipe	A53 Gr.B	Typical
49	M55	N1022	N1067			Pipe 2.375"x0....	Beam	Pipe	A53 Gr.B	Typical
50	M56A	N1030	N1063			Pipe 2.375"x0....	Beam	Pipe	A53 Gr.B	Typical
51	M57	N1026	N1023			Pipe 2.375"x0....	Beam	Pipe	A53 Gr.B	Typical
52	M58A	N1039	N1038			RIGID	None	None	RIGID	Typical
53	M59A	N1041A	N1040A			RIGID	None	None	RIGID	Typical
54	M60A	N1043	N1042			RIGID	None	None	RIGID	Typical
55	M61	N1045	N1044			RIGID	None	None	RIGID	Typical
56	M62	N1047	N1046			RIGID	None	None	RIGID	Typical
57	M63	N1049	N1048			RIGID	None	None	RIGID	Typical
58	M64	N1051	N1050			RIGID	None	None	RIGID	Typical
59	M65	N1053	N1052			RIGID	None	None	RIGID	Typical
60	M66	N1055	N1054			RIGID	None	None	RIGID	Typical
61	M67	N1057	N1056			RIGID	None	None	RIGID	Typical
62	M68	N1059	N1058			RIGID	None	None	RIGID	Typical
63	M69	N1061	N1060			RIGID	None	None	RIGID	Typical
64	M72A	N117	N126A		90	L2.5"X2.5"X0....	Beam	Single Angle	A36 Gr.36	Typical
65	M73A	N118	N125A		180	L2.5"X2.5"X0....	Beam	Single Angle	A36 Gr.36	Typical
66	M74	N134A	N130		90	L2.5"X2.5"X0....	Beam	Single Angle	A36 Gr.36	Typical
67	M75	N135A	N129		180	L2.5"X2.5"X0....	Beam	Single Angle	A36 Gr.36	Typical
68	M76	N136	N134		90	L2.5"X2.5"X0....	Beam	Single Angle	A36 Gr.36	Typical
69	M77	N137	N133		180	L2.5"X2.5"X0....	Beam	Single Angle	A36 Gr.36	Typical
70	M78	N126A	N125A			RIGID	None	None	RIGID	Typical
71	M79	N127	N116			RIGID	None	None	RIGID	Typical
72	M80	N130	N129			RIGID	None	None	RIGID	Typical
73	M81	N131	N128			RIGID	None	None	RIGID	Typical
74	M82	N134	N133			RIGID	None	None	RIGID	Typical
75	M83	N135	N132			RIGID	None	None	RIGID	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes	Default			None
2	M2						Yes	Default			None
3	M3						Yes	Default			None
4	H1						Yes	Default			None
5	H3						Yes				None
6	H2						Yes				None
7	M7						Yes				None
8	M8						Yes				None
9	M9						Yes				None
10	M13						Yes				None
11	M14						Yes				None
12	M15						Yes				None
13	MP4						Yes				None
14	MP3						Yes				None
15	MP2						Yes				None
16	MP1						Yes				None
17	MP12						Yes				None
18	MP11						Yes				None
19	MP10						Yes				None
20	MP9						Yes				None
21	MP8						Yes				None
22	MP7						Yes				None
23	MP6						Yes				None
24	MP5						Yes				None
25	M29						Yes	** NA **			None
26	M31						Yes	** NA **			None
27	M33						Yes	** NA **			None
28	M35						Yes	** NA **			None
29	M36		OOOXOO				Yes	** NA **			None
30	M37		OOOXOO				Yes	** NA **			None
31	M38						Yes	** NA **			None
32	M39		OOOXOO				Yes	** NA **			None
33	M40						Yes	** NA **			None
34	M41		OOOXOO				Yes	** NA **			None
35	M42						Yes	** NA **			None
36	M44						Yes	** NA **			None
37	M46						Yes	** NA **			None
38	M48						Yes	** NA **			None
39	M50						Yes	** NA **			None
40	M52						Yes	** NA **			None
41	M54						Yes	** NA **			None
42	M56						Yes	** NA **			None
43	M58						Yes	** NA **			None
44	M59		OOOXOO				Yes	** NA **			None
45	M60		OOOXOO				Yes	** NA **			None
46	M46A						Yes				None
47	M47						Yes				None
48	M48A						Yes				None
49	M55	BenPIN	BenPIN				Yes				None
50	M56A	BenPIN	BenPIN				Yes				None
51	M57	BenPIN	BenPIN				Yes				None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
52	M58A						Yes	** NA **			None
53	M59A						Yes	** NA **			None
54	M60A						Yes	** NA **			None
55	M61						Yes	** NA **			None
56	M62						Yes	** NA **			None
57	M63						Yes	** NA **			None
58	M64						Yes	** NA **			None
59	M65						Yes	** NA **			None
60	M66						Yes	** NA **			None
61	M67						Yes	** NA **			None
62	M68						Yes	** NA **			None
63	M69						Yes	** NA **			None
64	M72A	BenPIN	BenPIN				Yes				None
65	M73A	BenPIN	BenPIN				Yes				None
66	M74	BenPIN	BenPIN				Yes				None
67	M75	BenPIN	BenPIN				Yes				None
68	M76	BenPIN	BenPIN				Yes				None
69	M77	BenPIN	BenPIN				Yes				None
70	M78						Yes	** NA **			None
71	M79						Yes	** NA **			None
72	M80						Yes	** NA **			None
73	M81						Yes	** NA **			None
74	M82						Yes	** NA **			None
75	M83						Yes	** NA **			None

Hot Rolled Steel Design Parameters

	Label	Shape	Length[in]	Lbyy[in]	Lbzz[in]	Lcomp top[in]	Lcomp bot[in]	L-torqu...	Kyy	Kzz	Cb	Function
1	M1	C5.25"X4"X...	35.836	Segment	Segment	Lbyy		Segme...	2.1	1		Lateral
2	M2	C5.25"X4"X...	35.836	Segment	Segment	Lbyy		Segme...	2.1	1		Lateral
3	M3	C5.25"X4"X...	35.836	Segment	Segment	Lbyy		Segme...	2.1	1		Lateral
4	H1	L3"x3"x0.25"	168	84	168	Lbyy		84	1	1		Lateral
5	H3	L3"x3"x0.25"	168	84	168	Lbyy		84	1	1		Lateral
6	H2	L3"x3"x0.25"	168	84	168	Lbyy		84	1	1		Lateral
7	M7	L3"x3"x0.25"	84.862	Segment	Segment	Lbyy		Segme...	1	1		Lateral
8	M8	L3"x3"x0.25"	84.862	Segment	Segment	Lbyy		Segme...	1	1		Lateral
9	M9	L3"x3"x0.25"	84.862	Segment	Segment	Lbyy		Segme...	1	1		Lateral
10	M13	LL3"x3"x0.25"	48	48	48	Lbyy		48	.65	.65		Lateral
11	M14	LL3"x3"x0.25"	48	48	48	Lbyy		48	.65	.65		Lateral
12	M15	LL3"x3"x0.25"	48	48	48	Lbyy		48	.65	.65		Lateral
13	MP4	Pipe 2.375"...	72	Segment	Segment	Lbyy		Segme...	1	1		Lateral
14	MP3	Pipe 2.375"...	72	Segment	Segment	Lbyy		Segme...	1	1		Lateral
15	MP2	Pipe 2.375"...	72	Segment	Segment	Lbyy		Segme...	1	1		Lateral
16	MP1	Pipe 2.375"...	72	Segment	Segment	Lbyy		Segme...	1	1		Lateral
17	MP12	Pipe 2.375"...	72	Segment	Segment	Lbyy		Segme...	1	1		Lateral
18	MP11	Pipe 2.375"...	72	Segment	Segment	Lbyy		Segme...	1	1		Lateral
19	MP10	Pipe 2.375"...	72	Segment	Segment	Lbyy		Segme...	1	1		Lateral
20	MP9	Pipe 2.375"...	72	Segment	Segment	Lbyy		Segme...	1	1		Lateral
21	MP8	Pipe 2.375"...	72	Segment	Segment	Lbyy		Segme...	1	1		Lateral
22	MP7	Pipe 2.375"...	72	Segment	Segment	Lbyy		Segme...	1	1		Lateral
23	MP6	Pipe 2.375"...	72	Segment	Segment	Lbyy		Segme...	1	1		Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[in]	Lbyy[in]	Lbzz[in]	Lcomp top[in]	Lcomp bot[in]	L-torqu...	Kyy	Kzz	Cb	Function
24	MP5	Pipe 2.375"...	72	Segment	Segment	Lbyy		Segme...	1	1		Lateral
25	M46A	Pipe 2.375"...	168	93	93	Lbyy		93	1	1		Lateral
26	M47	Pipe 2.375"...	168	93	93	Lbyy		93	1	1		Lateral
27	M48A	Pipe 2.375"...	168	93	93	Lbyy		93	1	1		Lateral
28	M55	Pipe 2.375"...	30	Segment	Segment	Lbyy		Segme...	1	1		Lateral
29	M56A	Pipe 2.375"...	30	Segment	Segment	Lbyy		Segme...	1	1		Lateral
30	M57	Pipe 2.375"...	30	Segment	Segment	Lbyy		Segme...	1	1		Lateral
31	M72A	L2.5"X2.5"...	61.482	Segment	Segment	Lbyy		Segme...	1	1		Lateral
32	M73A	L2.5"X2.5"...	61.482	Segment	Segment	Lbyy		Segme...	1	1		Lateral
33	M74	L2.5"X2.5"...	61.482	Segment	Segment	Lbyy		Segme...	1	1		Lateral
34	M75	L2.5"X2.5"...	61.482	Segment	Segment	Lbyy		Segme...	1	1		Lateral
35	M76	L2.5"X2.5"...	61.482	Segment	Segment	Lbyy		Segme...	1	1		Lateral
36	M77	L2.5"X2.5"...	61.482	Segment	Segment	Lbyy		Segme...	1	1		Lateral

Cold Formed Steel Design Parameters

Label	Shape	Length...	Lbyy[in]	Lbzz[in]	Lcomp to...	Lcomp bo...	L-torque[in]	Kyy	Kzz	Cb	R	a[in]	Funct...
No Data to Print ...													

Joint Loads and Enforced Displacements

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2...
No Data to Print ...			

Member Point Loads (BLC 1 : Self Weight)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP2	Z	-51.05	0
2	MP2	Z	-51.05	72
3	MP3	Z	-66.25	0
4	MP3	Z	-66.25	72
5	MP3	Z	-20	51
6	MP3	Z	-55.9	12
7	MP2	Z	-71	12
8	MP3	Z	-59.4	12
9	MP2	Z	-72	12
10	M9	Z	-26.2	21
11	M7	Z	-18.9	21
12	MP2	Z	-20	51
13	MP6	Z	-34.15	11.9
14	MP6	Z	-34.15	72
15	MP7	Z	-50.15	11.6
16	MP7	Z	-50.15	72
17	MP7	Z	-20	51
18	MP7	Z	-55.9	12
19	MP6	Z	-71	12
20	MP7	Z	-59.4	12
21	MP6	Z	-72	12
22	MP6	Z	-20	51
23	MP10	Z	-34.15	11.9

Member Point Loads (BLC 1 : Self Weight) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
24	MP10	Z	-34.15	72
25	MP11	Z	-50.15	11.6
26	MP11	Z	-50.15	72
27	MP11	Z	-20	51
28	MP11	Z	-55.9	12
29	MP10	Z	-71	12
30	MP11	Z	-59.4	12
31	MP10	Z	-72	12
32	MP10	Z	-20	51

Member Point Loads (BLC 4 : Wind Load 0 AZI)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP2	X	-401.418	0
2	MP2	X	-401.418	72
3	MP3	X	-228.212	0
4	MP3	X	-228.212	72
5	MP3	X	-29.788	51
6	MP3	X	-37.94	12
7	MP2	X	-65.918	12
8	MP3	X	-58.323	12
9	MP2	X	-63.357	12
10	M9	X	-53.579	21
11	M7	X	-39.783	21
12	MP2	X	-29.788	51
13	MP6	X	-133.923	11.9
14	MP6	X	-133.923	72
15	MP7	X	-83.075	11.6
16	MP7	X	-83.075	72
17	MP7	X	-21.846	51
18	MP7	X	-84.3	12
19	MP6	X	-89.041	12
20	MP7	X	-90.371	12
21	MP6	X	-75.162	12
22	MP6	X	-21.846	51
23	MP10	X	-189.733	11.9
24	MP10	X	-189.733	72
25	MP11	X	-115.036	11.6
26	MP11	X	-115.036	72
27	MP11	X	-24.51	51
28	MP11	X	-68.749	12
29	MP10	X	-81.285	12
30	MP11	X	-79.621	12
31	MP10	X	-71.202	12
32	MP10	X	-24.51	51
33	MP2	Y	0	0
34	MP2	Y	0	72
35	MP3	Y	0	0
36	MP3	Y	0	72
37	MP3	Y	0	51
38	MP3	Y	0	12
39	MP2	Y	0	12

Member Point Loads (BLC 4 : Wind Load 0 AZI) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
40	MP3	Y	0	12
41	MP2	Y	0	12
42	M9	Y	0	21
43	M7	Y	0	21
44	MP2	Y	0	51
45	MP6	Y	0	11.9
46	MP6	Y	0	72
47	MP7	Y	0	11.6
48	MP7	Y	0	72
49	MP7	Y	0	51
50	MP7	Y	0	12
51	MP6	Y	0	12
52	MP7	Y	0	12
53	MP6	Y	0	12
54	MP6	Y	0	51
55	MP10	Y	0	11.9
56	MP10	Y	0	72
57	MP11	Y	0	11.6
58	MP11	Y	0	72
59	MP11	Y	0	51
60	MP11	Y	0	12
61	MP10	Y	0	12
62	MP11	Y	0	12
63	MP10	Y	0	12
64	MP10	Y	0	51

Member Point Loads (BLC 5 : Wind Load 30 AZI)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP2	X	-301.574	0
2	MP2	X	-301.574	72
3	MP3	X	-168.296	0
4	MP3	X	-168.296	72
5	MP3	X	-23.85	51
6	MP3	X	-44.224	12
7	MP2	X	-62.756	12
8	MP3	X	-58.367	12
9	MP2	X	-57.763	12
10	M9	X	-46.401	21
11	M7	X	-34.453	21
12	MP2	X	-23.85	51
13	MP6	X	-192.649	11.9
14	MP6	X	-192.649	72
15	MP7	X	-115.851	11.6
16	MP7	X	-115.851	72
17	MP7	X	-22.579	51
18	MP7	X	-51.643	12
19	MP6	X	-66.457	12
20	MP7	X	-63.496	12
21	MP6	X	-59.652	12
22	MP6	X	-22.579	51
23	MP10	X	-101.813	11.9

Member Point Loads (BLC 5 : Wind Load 30 AZI) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
24	MP10	X	-101.813	72
25	MP11	X	-63.832	11.6
26	MP11	X	-63.832	72
27	MP11	X	-18.243	51
28	MP11	X	-76.954	12
29	MP10	X	-79.081	12
30	MP11	X	-80.992	12
31	MP10	X	-66.097	12
32	MP10	X	-18.243	51
33	MP2	Y	-174.114	0
34	MP2	Y	-174.114	72
35	MP3	Y	-97.165	0
36	MP3	Y	-97.165	72
37	MP3	Y	-13.77	51
38	MP3	Y	-25.533	12
39	MP2	Y	-36.232	12
40	MP3	Y	-33.698	12
41	MP2	Y	-33.35	12
42	M9	Y	-26.79	21
43	M7	Y	-19.891	21
44	MP2	Y	-13.77	51
45	MP6	Y	-111.226	11.9
46	MP6	Y	-111.226	72
47	MP7	Y	-66.887	11.6
48	MP7	Y	-66.887	72
49	MP7	Y	-13.036	51
50	MP7	Y	-29.816	12
51	MP6	Y	-38.369	12
52	MP7	Y	-36.659	12
53	MP6	Y	-34.44	12
54	MP6	Y	-13.036	51
55	MP10	Y	-58.782	11.9
56	MP10	Y	-58.782	72
57	MP11	Y	-36.853	11.6
58	MP11	Y	-36.853	72
59	MP11	Y	-10.533	51
60	MP11	Y	-44.429	12
61	MP10	Y	-45.657	12
62	MP11	Y	-46.761	12
63	MP10	Y	-38.161	12
64	MP10	Y	-10.533	51

Member Point Loads (BLC 6 : Wind Load 45 AZI)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP2	X	-208.622	0
2	MP2	X	-208.622	72
3	MP3	X	-113.456	0
4	MP3	X	-113.456	72
5	MP3	X	-17.884	51
6	MP3	X	-45.39	12
7	MP2	X	-55.869	12

Member Point Loads (BLC 6 : Wind Load 45 AZI) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
8	MP3	X	-54.072	12
9	MP2	X	-49.527	12
10	M9	X	-37.886	21
11	M7	X	-28.131	21
12	MP2	X	-17.884	51
13	MP6	X	-188.55	11.9
14	MP6	X	-188.55	72
15	MP7	X	-112.489	11.6
16	MP7	X	-112.489	72
17	MP7	X	-19.928	51
18	MP7	X	-33.458	12
19	MP6	X	-49.918	12
20	MP7	X	-45.824	12
21	MP6	X	-46.489	12
22	MP6	X	-19.928	51
23	MP10	X	-80.125	11.9
24	MP10	X	-80.125	72
25	MP11	X	-50.397	11.6
26	MP11	X	-50.397	72
27	MP11	X	-14.752	51
28	MP11	X	-63.67	12
29	MP10	X	-64.987	12
30	MP11	X	-66.709	12
31	MP10	X	-54.182	12
32	MP10	X	-14.752	51
33	MP2	Y	-208.622	0
34	MP2	Y	-208.622	72
35	MP3	Y	-113.456	0
36	MP3	Y	-113.456	72
37	MP3	Y	-17.884	51
38	MP3	Y	-45.39	12
39	MP2	Y	-55.869	12
40	MP3	Y	-54.072	12
41	MP2	Y	-49.527	12
42	M9	Y	-37.886	21
43	M7	Y	-28.131	21
44	MP2	Y	-17.884	51
45	MP6	Y	-188.55	11.9
46	MP6	Y	-188.55	72
47	MP7	Y	-112.489	11.6
48	MP7	Y	-112.489	72
49	MP7	Y	-19.928	51
50	MP7	Y	-33.458	12
51	MP6	Y	-49.918	12
52	MP7	Y	-45.824	12
53	MP6	Y	-46.489	12
54	MP6	Y	-19.928	51
55	MP10	Y	-80.125	11.9
56	MP10	Y	-80.125	72
57	MP11	Y	-50.397	11.6
58	MP11	Y	-50.397	72
59	MP11	Y	-14.752	51

Member Point Loads (BLC 6 : Wind Load 45 AZI) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
60	MP11	Y	-63.67	12
61	MP10	Y	-64.987	12
62	MP11	Y	-66.709	12
63	MP10	Y	-54.182	12
64	MP10	Y	-14.752	51

Member Point Loads (BLC 7 : Wind Load 60 AZI)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP2	X	-120.923	0
2	MP2	X	-120.923	72
3	MP3	X	-63.285	0
4	MP3	X	-63.285	72
5	MP3	X	-11.521	51
6	MP3	X	-38.658	12
7	MP2	X	-42.779	12
8	MP3	X	-42.771	12
9	MP2	X	-36.692	12
10	M9	X	-26.79	21
11	M7	X	-19.891	21
12	MP2	X	-11.521	51
13	MP6	X	-147.311	11.9
14	MP6	X	-147.311	72
15	MP7	X	-87.551	11.6
16	MP7	X	-87.551	72
17	MP7	X	-14.759	51
18	MP7	X	-19.762	12
19	MP6	X	-33.354	12
20	MP7	X	-29.709	12
21	MP6	X	-31.88	12
22	MP6	X	-14.759	51
23	MP10	X	-66.962	11.9
24	MP10	X	-66.962	72
25	MP11	X	-41.538	11.6
26	MP11	X	-41.538	72
27	MP11	X	-10.923	51
28	MP11	X	-42.15	12
29	MP10	X	-44.521	12
30	MP11	X	-45.185	12
31	MP10	X	-37.581	12
32	MP10	X	-10.923	51
33	MP2	Y	-209.445	0
34	MP2	Y	-209.445	72
35	MP3	Y	-109.613	0
36	MP3	Y	-109.613	72
37	MP3	Y	-19.956	51
38	MP3	Y	-66.958	12
39	MP2	Y	-74.095	12
40	MP3	Y	-74.082	12
41	MP2	Y	-63.552	12
42	M9	Y	-46.401	21
43	M7	Y	-34.453	21

Member Point Loads (BLC 7 : Wind Load 60 AZI) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
44	MP2	Y	-19.956	51
45	MP6	Y	-255.15	11.9
46	MP6	Y	-255.15	72
47	MP7	Y	-151.643	11.6
48	MP7	Y	-151.643	72
49	MP7	Y	-25.563	51
50	MP7	Y	-34.228	12
51	MP6	Y	-57.771	12
52	MP7	Y	-51.457	12
53	MP6	Y	-55.218	12
54	MP6	Y	-25.563	51
55	MP10	Y	-115.981	11.9
56	MP10	Y	-115.981	72
57	MP11	Y	-71.945	11.6
58	MP11	Y	-71.945	72
59	MP11	Y	-18.92	51
60	MP11	Y	-73.006	12
61	MP10	Y	-77.112	12
62	MP11	Y	-78.263	12
63	MP10	Y	-65.092	12
64	MP10	Y	-18.92	51

Member Point Loads (BLC 8 : Wind Load 90 AZI)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP2	X	0	0
2	MP2	X	0	72
3	MP3	X	0	0
4	MP3	X	0	72
5	MP3	X	0	51
6	MP3	X	0	12
7	MP2	X	0	12
8	MP3	X	0	12
9	MP2	X	0	12
10	M9	X	0	21
11	M7	X	0	21
12	MP2	X	0	51
13	MP6	X	0	11.9
14	MP6	X	0	72
15	MP7	X	0	11.6
16	MP7	X	0	72
17	MP7	X	0	51
18	MP7	X	0	12
19	MP6	X	0	12
20	MP7	X	0	12
21	MP6	X	0	12
22	MP6	X	0	51
23	MP10	X	0	11.9
24	MP10	X	0	72
25	MP11	X	0	11.6
26	MP11	X	0	72
27	MP11	X	0	51

Member Point Loads (BLC 8 : Wind Load 90 AZI) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
28	MP11	X	0	12
29	MP10	X	0	12
30	MP11	X	0	12
31	MP10	X	0	12
32	MP10	X	0	51
33	MP2	Y	-188.655	0
34	MP2	Y	-188.655	72
35	MP3	Y	-92.689	0
36	MP3	Y	-92.689	72
37	MP3	Y	-20.794	51
38	MP3	Y	-90.442	12
39	MP2	Y	-92.104	12
40	MP3	Y	-94.616	12
41	MP2	Y	-76.726	12
42	M9	Y	-53.579	21
43	M7	Y	-39.783	21
44	MP2	Y	-20.794	51
45	MP6	Y	-278.262	11.9
46	MP6	Y	-278.262	72
47	MP7	Y	-165.734	11.6
48	MP7	Y	-165.734	72
49	MP7	Y	-28.736	51
50	MP7	Y	-44.082	12
51	MP6	Y	-68.982	12
52	MP7	Y	-62.569	12
53	MP6	Y	-64.921	12
54	MP6	Y	-28.736	51
55	MP10	Y	-222.452	11.9
56	MP10	Y	-222.452	72
57	MP11	Y	-133.773	11.6
58	MP11	Y	-133.773	72
59	MP11	Y	-26.072	51
60	MP11	Y	-59.633	12
61	MP10	Y	-76.738	12
62	MP11	Y	-73.318	12
63	MP10	Y	-68.881	12
64	MP10	Y	-26.072	51

Member Point Loads (BLC 9 : Wind Load 120 AZI)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP2	X	120.923	0
2	MP2	X	120.923	72
3	MP3	X	63.285	0
4	MP3	X	63.285	72
5	MP3	X	11.521	51
6	MP3	X	38.658	12
7	MP2	X	42.779	12
8	MP3	X	42.771	12
9	MP2	X	36.692	12
10	M9	X	26.79	21
11	M7	X	19.891	21

Member Point Loads (BLC 9 : Wind Load 120 AZI) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
12	MP2	X	11.521	51
13	MP6	X	94.867	11.9
14	MP6	X	94.867	72
15	MP7	X	57.518	11.6
16	MP7	X	57.518	72
17	MP7	X	12.255	51
18	MP7	X	34.375	12
19	MP6	X	40.642	12
20	MP7	X	39.81	12
21	MP6	X	35.601	12
22	MP6	X	12.255	51
23	MP10	X	147.311	11.9
24	MP10	X	147.311	72
25	MP11	X	87.551	11.6
26	MP11	X	87.551	72
27	MP11	X	14.759	51
28	MP11	X	19.762	12
29	MP10	X	33.354	12
30	MP11	X	29.709	12
31	MP10	X	31.88	12
32	MP10	X	14.759	51
33	MP2	Y	-209.445	0
34	MP2	Y	-209.445	72
35	MP3	Y	-109.613	0
36	MP3	Y	-109.613	72
37	MP3	Y	-19.956	51
38	MP3	Y	-66.958	12
39	MP2	Y	-74.095	12
40	MP3	Y	-74.082	12
41	MP2	Y	-63.552	12
42	M9	Y	-46.401	21
43	M7	Y	-34.453	21
44	MP2	Y	-19.956	51
45	MP6	Y	-164.314	11.9
46	MP6	Y	-164.314	72
47	MP7	Y	-99.624	11.6
48	MP7	Y	-99.624	72
49	MP7	Y	-21.227	51
50	MP7	Y	-59.539	12
51	MP6	Y	-70.395	12
52	MP7	Y	-68.954	12
53	MP6	Y	-61.663	12
54	MP6	Y	-21.227	51
55	MP10	Y	-255.15	11.9
56	MP10	Y	-255.15	72
57	MP11	Y	-151.643	11.6
58	MP11	Y	-151.643	72
59	MP11	Y	-25.563	51
60	MP11	Y	-34.228	12
61	MP10	Y	-57.771	12
62	MP11	Y	-51.457	12
63	MP10	Y	-55.218	12

Member Point Loads (BLC 9 : Wind Load 120 AZI) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
64	MP10	Y	-25.563	51

Member Point Loads (BLC 10 : Wind Load 135 AZI)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP2	X	208.622	0
2	MP2	X	208.622	72
3	MP3	X	113.456	0
4	MP3	X	113.456	72
5	MP3	X	17.884	51
6	MP3	X	45.39	12
7	MP2	X	55.869	12
8	MP3	X	54.072	12
9	MP2	X	49.527	12
10	M9	X	37.886	21
11	M7	X	28.131	21
12	MP2	X	17.884	51
13	MP6	X	102.909	11.9
14	MP6	X	102.909	72
15	MP7	X	63.445	11.6
16	MP7	X	63.445	72
17	MP7	X	15.84	51
18	MP7	X	57.321	12
19	MP6	X	61.82	12
20	MP7	X	62.32	12
21	MP6	X	52.565	12
22	MP6	X	15.84	51
23	MP10	X	211.334	11.9
24	MP10	X	211.334	72
25	MP11	X	125.537	11.6
26	MP11	X	125.537	72
27	MP11	X	21.015	51
28	MP11	X	27.11	12
29	MP10	X	46.752	12
30	MP11	X	41.436	12
31	MP10	X	44.872	12
32	MP10	X	21.015	51
33	MP2	Y	-208.622	0
34	MP2	Y	-208.622	72
35	MP3	Y	-113.456	0
36	MP3	Y	-113.456	72
37	MP3	Y	-17.884	51
38	MP3	Y	-45.39	12
39	MP2	Y	-55.869	12
40	MP3	Y	-54.072	12
41	MP2	Y	-49.527	12
42	M9	Y	-37.886	21
43	M7	Y	-28.131	21
44	MP2	Y	-17.884	51
45	MP6	Y	-102.909	11.9
46	MP6	Y	-102.909	72
47	MP7	Y	-63.445	11.6

Member Point Loads (BLC 10 : Wind Load 135 AZI) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
48	MP7	Y	-63.445	72
49	MP7	Y	-15.84	51
50	MP7	Y	-57.321	12
51	MP6	Y	-61.82	12
52	MP7	Y	-62.32	12
53	MP6	Y	-52.565	12
54	MP6	Y	-15.84	51
55	MP10	Y	-211.334	11.9
56	MP10	Y	-211.334	72
57	MP11	Y	-125.537	11.6
58	MP11	Y	-125.537	72
59	MP11	Y	-21.015	51
60	MP11	Y	-27.11	12
61	MP10	Y	-46.752	12
62	MP11	Y	-41.436	12
63	MP10	Y	-44.872	12
64	MP10	Y	-21.015	51

Member Point Loads (BLC 11 : Wind Load 150 AZI)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP2	X	301.574	0
2	MP2	X	301.574	72
3	MP3	X	168.296	0
4	MP3	X	168.296	72
5	MP3	X	23.85	51
6	MP3	X	44.224	12
7	MP2	X	62.756	12
8	MP3	X	58.367	12
9	MP2	X	57.763	12
10	M9	X	46.401	21
11	M7	X	34.453	21
12	MP2	X	23.85	51
13	MP6	X	101.813	11.9
14	MP6	X	101.813	72
15	MP7	X	63.832	11.6
16	MP7	X	63.832	72
17	MP7	X	18.243	51
18	MP7	X	76.954	12
19	MP6	X	79.081	12
20	MP7	X	80.992	12
21	MP6	X	66.097	12
22	MP6	X	18.243	51
23	MP10	X	240.982	11.9
24	MP10	X	240.982	72
25	MP11	X	143.53	11.6
26	MP11	X	143.53	72
27	MP11	X	24.886	51
28	MP11	X	38.176	12
29	MP10	X	59.74	12
30	MP11	X	54.186	12
31	MP10	X	56.223	12

Member Point Loads (BLC 11 : Wind Load 150 AZI) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
32	MP10	X	24.886	51
33	MP2	Y	-174.114	0
34	MP2	Y	-174.114	72
35	MP3	Y	-97.165	0
36	MP3	Y	-97.165	72
37	MP3	Y	-13.77	51
38	MP3	Y	-25.533	12
39	MP2	Y	-36.232	12
40	MP3	Y	-33.698	12
41	MP2	Y	-33.35	12
42	M9	Y	-26.79	21
43	M7	Y	-19.891	21
44	MP2	Y	-13.77	51
45	MP6	Y	-58.782	11.9
46	MP6	Y	-58.782	72
47	MP7	Y	-36.853	11.6
48	MP7	Y	-36.853	72
49	MP7	Y	-10.533	51
50	MP7	Y	-44.429	12
51	MP6	Y	-45.657	12
52	MP7	Y	-46.761	12
53	MP6	Y	-38.161	12
54	MP6	Y	-10.533	51
55	MP10	Y	-139.131	11.9
56	MP10	Y	-139.131	72
57	MP11	Y	-82.867	11.6
58	MP11	Y	-82.867	72
59	MP11	Y	-14.368	51
60	MP11	Y	-22.041	12
61	MP10	Y	-34.491	12
62	MP11	Y	-31.284	12
63	MP10	Y	-32.46	12
64	MP10	Y	-14.368	51

Member Point Loads (BLC 12 : Ice Weight)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP2	Z	-188.174	0
2	MP2	Z	-188.174	72
3	MP3	Z	-182.187	0
4	MP3	Z	-182.187	72
5	MP3	Z	-33.377	51
6	MP3	Z	-62.607	12
7	MP2	Z	-77.157	12
8	MP3	Z	-73.819	12
9	MP2	Z	-73.547	12
10	M9	Z	-106.29	21
11	M7	Z	-87.761	21
12	MP2	Z	-33.377	51
13	MP6	Z	-143.51	11.9
14	MP6	Z	-143.51	72
15	MP7	Z	-141.715	11.6

Member Point Loads (BLC 12 : Ice Weight) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
16	MP7	Z	-141.715	72
17	MP7	Z	-33.377	51
18	MP7	Z	-62.607	12
19	MP6	Z	-77.157	12
20	MP7	Z	-73.819	12
21	MP6	Z	-73.547	12
22	MP6	Z	-33.377	51
23	MP10	Z	-143.51	11.9
24	MP10	Z	-143.51	72
25	MP11	Z	-141.715	11.6
26	MP11	Z	-141.715	72
27	MP11	Z	-33.377	51
28	MP11	Z	-62.607	12
29	MP10	Z	-77.157	12
30	MP11	Z	-73.819	12
31	MP10	Z	-73.547	12
32	MP10	Z	-33.377	51

Member Point Loads (BLC 15 : Ice Wind Load 0 AZI)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP2	X	-75.972	0
2	MP2	X	-75.972	72
3	MP3	X	-43.514	0
4	MP3	X	-43.514	72
5	MP3	X	-7.858	51
6	MP3	X	-8.506	12
7	MP2	X	-13.464	12
8	MP3	X	-12.163	12
9	MP2	X	-12.892	12
10	M9	X	-12.9	21
11	M7	X	-9.848	21
12	MP2	X	-7.858	51
13	MP6	X	-29.735	11.9
14	MP6	X	-29.735	72
15	MP7	X	-18.547	11.6
16	MP7	X	-18.547	72
17	MP7	X	-6.365	51
18	MP7	X	-16.588	12
19	MP6	X	-17.46	12
20	MP7	X	-17.697	12
21	MP6	X	-14.965	12
22	MP6	X	-6.365	51
23	MP10	X	-39.051	11.9
24	MP10	X	-39.051	72
25	MP11	X	-23.863	11.6
26	MP11	X	-23.863	72
27	MP11	X	-6.866	51
28	MP11	X	-13.877	12
29	MP10	X	-16.12	12
30	MP11	X	-15.841	12
31	MP10	X	-14.27	12

Member Point Loads (BLC 15 : Ice Wind Load 0 AZI) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
32	MP10	X	-6.866	51
33	MP2	Y	0	0
34	MP2	Y	0	72
35	MP3	Y	0	0
36	MP3	Y	0	72
37	MP3	Y	0	51
38	MP3	Y	0	12
39	MP2	Y	0	12
40	MP3	Y	0	12
41	MP2	Y	0	12
42	M9	Y	0	21
43	M7	Y	0	21
44	MP2	Y	0	51
45	MP6	Y	0	11.9
46	MP6	Y	0	72
47	MP7	Y	0	11.6
48	MP7	Y	0	72
49	MP7	Y	0	51
50	MP7	Y	0	12
51	MP6	Y	0	12
52	MP7	Y	0	12
53	MP6	Y	0	12
54	MP6	Y	0	51
55	MP10	Y	0	11.9
56	MP10	Y	0	72
57	MP11	Y	0	11.6
58	MP11	Y	0	72
59	MP11	Y	0	51
60	MP11	Y	0	12
61	MP10	Y	0	12
62	MP11	Y	0	12
63	MP10	Y	0	12
64	MP10	Y	0	51

Member Point Loads (BLC 16 : Ice Wind Load 30 AZI)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP2	X	-58.197	0
2	MP2	X	-58.197	72
3	MP3	X	-32.841	0
4	MP3	X	-32.841	72
5	MP3	X	-6.439	51
6	MP3	X	-9.348	12
7	MP2	X	-12.64	12
8	MP3	X	-11.891	12
9	MP2	X	-11.673	12
10	M9	X	-11.172	21
11	M7	X	-8.528	21
12	MP2	X	-6.439	51
13	MP6	X	-38.549	11.9
14	MP6	X	-38.549	72
15	MP7	X	-23.365	11.6

Member Point Loads (BLC 16 : Ice Wind Load 30 AZI) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
16	MP7	X	-23.365	72
17	MP7	X	-6.2	51
18	MP7	X	-10.642	12
19	MP6	X	-13.279	12
20	MP7	X	-12.776	12
21	MP6	X	-12.005	12
22	MP6	X	-6.2	51
23	MP10	X	-23.386	11.9
24	MP10	X	-23.386	72
25	MP11	X	-14.712	11.6
26	MP11	X	-14.712	72
27	MP11	X	-5.385	51
28	MP11	X	-15.054	12
29	MP10	X	-15.461	12
30	MP11	X	-15.797	12
31	MP10	X	-13.137	12
32	MP10	X	-5.385	51
33	MP2	Y	-33.6	0
34	MP2	Y	-33.6	72
35	MP3	Y	-18.961	0
36	MP3	Y	-18.961	72
37	MP3	Y	-3.718	51
38	MP3	Y	-5.397	12
39	MP2	Y	-7.298	12
40	MP3	Y	-6.865	12
41	MP2	Y	-6.74	12
42	M9	Y	-6.45	21
43	M7	Y	-4.924	21
44	MP2	Y	-3.718	51
45	MP6	Y	-22.256	11.9
46	MP6	Y	-22.256	72
47	MP7	Y	-13.49	11.6
48	MP7	Y	-13.49	72
49	MP7	Y	-3.58	51
50	MP7	Y	-6.144	12
51	MP6	Y	-7.667	12
52	MP7	Y	-7.376	12
53	MP6	Y	-6.931	12
54	MP6	Y	-3.58	51
55	MP10	Y	-13.502	11.9
56	MP10	Y	-13.502	72
57	MP11	Y	-8.494	11.6
58	MP11	Y	-8.494	72
59	MP11	Y	-3.109	51
60	MP11	Y	-8.692	12
61	MP10	Y	-8.927	12
62	MP11	Y	-9.12	12
63	MP10	Y	-7.584	12
64	MP10	Y	-3.109	51

Member Point Loads (BLC 17 : Ice Wind Load 45 AZI)

Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]

Member Point Loads (BLC 17 : Ice Wind Load 45 AZI) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP2	X	-41.315	0
2	MP2	X	-41.315	72
3	MP3	X	-22.86	0
4	MP3	X	-22.86	72
5	MP3	X	-4.959	51
6	MP3	X	-9.251	12
7	MP2	X	-11.12	12
8	MP3	X	-10.816	12
9	MP2	X	-9.946	12
10	M9	X	-9.122	21
11	M7	X	-6.963	21
12	MP2	X	-4.959	51
13	MP6	X	-36.692	11.9
14	MP6	X	-36.692	72
15	MP7	X	-22.055	11.6
16	MP7	X	-22.055	72
17	MP7	X	-5.343	51
18	MP7	X	-7.171	12
19	MP6	X	-10.092	12
20	MP7	X	-9.392	12
21	MP6	X	-9.413	12
22	MP6	X	-5.343	51
23	MP10	X	-18.593	11.9
24	MP10	X	-18.593	72
25	MP11	X	-11.726	11.6
26	MP11	X	-11.726	72
27	MP11	X	-4.37	51
28	MP11	X	-12.438	12
29	MP10	X	-12.696	12
30	MP11	X	-12.998	12
31	MP10	X	-10.763	12
32	MP10	X	-4.37	51
33	MP2	Y	-41.315	0
34	MP2	Y	-41.315	72
35	MP3	Y	-22.86	0
36	MP3	Y	-22.86	72
37	MP3	Y	-4.959	51
38	MP3	Y	-9.251	12
39	MP2	Y	-11.12	12
40	MP3	Y	-10.816	12
41	MP2	Y	-9.946	12
42	M9	Y	-9.122	21
43	M7	Y	-6.963	21
44	MP2	Y	-4.959	51
45	MP6	Y	-36.692	11.9
46	MP6	Y	-36.692	72
47	MP7	Y	-22.055	11.6
48	MP7	Y	-22.055	72
49	MP7	Y	-5.343	51
50	MP7	Y	-7.171	12
51	MP6	Y	-10.092	12
52	MP7	Y	-9.392	12

Member Point Loads (BLC 17 : Ice Wind Load 45 AZI) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
53	MP6	Y	-9.413	12
54	MP6	Y	-5.343	51
55	MP10	Y	-18.593	11.9
56	MP10	Y	-18.593	72
57	MP11	Y	-11.726	11.6
58	MP11	Y	-11.726	72
59	MP11	Y	-4.37	51
60	MP11	Y	-12.438	12
61	MP10	Y	-12.696	12
62	MP11	Y	-12.998	12
63	MP10	Y	-10.763	12
64	MP10	Y	-4.37	51

Member Point Loads (BLC 18 : Ice Wind Load 60 AZI)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP2	X	-24.828	0
2	MP2	X	-24.828	72
3	MP3	X	-13.369	0
4	MP3	X	-13.369	72
5	MP3	X	-3.295	51
6	MP3	X	-7.685	12
7	MP2	X	-8.429	12
8	MP3	X	-8.432	12
9	MP2	X	-7.326	12
10	M9	X	-6.45	21
11	M7	X	-4.924	21
12	MP2	X	-3.295	51
13	MP6	X	-28.279	11.9
14	MP6	X	-28.279	72
15	MP7	X	-16.927	11.6
16	MP7	X	-16.927	72
17	MP7	X	-3.903	51
18	MP7	X	-4.391	12
19	MP6	X	-6.8	12
20	MP7	X	-6.176	12
21	MP6	X	-6.481	12
22	MP6	X	-3.903	51
23	MP10	X	-14.867	11.9
24	MP10	X	-14.867	72
25	MP11	X	-9.273	11.6
26	MP11	X	-9.273	72
27	MP11	X	-3.183	51
28	MP11	X	-8.294	12
29	MP10	X	-8.73	12
30	MP11	X	-8.848	12
31	MP10	X	-7.483	12
32	MP10	X	-3.183	51
33	MP2	Y	-43.004	0
34	MP2	Y	-43.004	72
35	MP3	Y	-23.155	0
36	MP3	Y	-23.155	72

Member Point Loads (BLC 18 : Ice Wind Load 60 AZI) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
37	MP3	Y	-5.707	51
38	MP3	Y	-13.312	12
39	MP2	Y	-14.6	12
40	MP3	Y	-14.604	12
41	MP2	Y	-12.69	12
42	M9	Y	-11.172	21
43	M7	Y	-8.528	21
44	MP2	Y	-5.707	51
45	MP6	Y	-48.981	11.9
46	MP6	Y	-48.981	72
47	MP7	Y	-29.319	11.6
48	MP7	Y	-29.319	72
49	MP7	Y	-6.761	51
50	MP7	Y	-7.606	12
51	MP6	Y	-11.778	12
52	MP7	Y	-10.698	12
53	MP6	Y	-11.226	12
54	MP6	Y	-6.761	51
55	MP10	Y	-25.751	11.9
56	MP10	Y	-25.751	72
57	MP11	Y	-16.062	11.6
58	MP11	Y	-16.062	72
59	MP11	Y	-5.513	51
60	MP11	Y	-14.366	12
61	MP10	Y	-15.121	12
62	MP11	Y	-15.326	12
63	MP10	Y	-12.96	12
64	MP10	Y	-5.513	51

Member Point Loads (BLC 19 : Ice Wind Load 90 AZI)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP2	X	0	0
2	MP2	X	0	72
3	MP3	X	0	0
4	MP3	X	0	72
5	MP3	X	0	51
6	MP3	X	0	12
7	MP2	X	0	12
8	MP3	X	0	12
9	MP2	X	0	12
10	M9	X	0	21
11	M7	X	0	21
12	MP2	X	0	51
13	MP6	X	0	11.9
14	MP6	X	0	72
15	MP7	X	0	11.6
16	MP7	X	0	72
17	MP7	X	0	51
18	MP7	X	0	12
19	MP6	X	0	12
20	MP7	X	0	12

Member Point Loads (BLC 19 : Ice Wind Load 90 AZI) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
21	MP6	X	0	12
22	MP6	X	0	51
23	MP10	X	0	11.9
24	MP10	X	0	72
25	MP11	X	0	11.6
26	MP11	X	0	72
27	MP11	X	0	51
28	MP11	X	0	12
29	MP10	X	0	12
30	MP11	X	0	12
31	MP10	X	0	12
32	MP10	X	0	51
33	MP2	Y	-40.884	0
34	MP2	Y	-40.884	72
35	MP3	Y	-21.145	0
36	MP3	Y	-21.145	72
37	MP3	Y	-6.168	51
38	MP3	Y	-17.659	12
39	MP2	Y	-17.99	12
40	MP3	Y	-18.43	12
41	MP2	Y	-15.24	12
42	M9	Y	-12.9	21
43	M7	Y	-9.848	21
44	MP2	Y	-6.168	51
45	MP6	Y	-53.828	11.9
46	MP6	Y	-53.828	72
47	MP7	Y	-32.296	11.6
48	MP7	Y	-32.296	72
49	MP7	Y	-7.66	51
50	MP7	Y	-9.577	12
51	MP6	Y	-13.993	12
52	MP7	Y	-12.897	12
53	MP6	Y	-13.167	12
54	MP6	Y	-7.66	51
55	MP10	Y	-44.512	11.9
56	MP10	Y	-44.512	72
57	MP11	Y	-26.98	11.6
58	MP11	Y	-26.98	72
59	MP11	Y	-7.159	51
60	MP11	Y	-12.288	12
61	MP10	Y	-15.334	12
62	MP11	Y	-14.753	12
63	MP10	Y	-13.862	12
64	MP10	Y	-7.159	51

Member Point Loads (BLC 20 : Ice Wind Load 120 AZI)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP2	X	24.828	0
2	MP2	X	24.828	72
3	MP3	X	13.369	0
4	MP3	X	13.369	72

Member Point Loads (BLC 20 : Ice Wind Load 120 AZI) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
5	MP3	X	3.295	51
6	MP3	X	7.685	12
7	MP2	X	8.429	12
8	MP3	X	8.432	12
9	MP2	X	7.326	12
10	M9	X	6.45	21
11	M7	X	4.924	21
12	MP2	X	3.295	51
13	MP6	X	19.525	11.9
14	MP6	X	19.525	72
15	MP7	X	11.932	11.6
16	MP7	X	11.932	72
17	MP7	X	3.433	51
18	MP7	X	6.939	12
19	MP6	X	8.06	12
20	MP7	X	7.92	12
21	MP6	X	7.135	12
22	MP6	X	3.433	51
23	MP10	X	28.279	11.9
24	MP10	X	28.279	72
25	MP11	X	16.927	11.6
26	MP11	X	16.927	72
27	MP11	X	3.903	51
28	MP11	X	4.391	12
29	MP10	X	6.8	12
30	MP11	X	6.176	12
31	MP10	X	6.481	12
32	MP10	X	3.903	51
33	MP2	Y	-43.004	0
34	MP2	Y	-43.004	72
35	MP3	Y	-23.155	0
36	MP3	Y	-23.155	72
37	MP3	Y	-5.707	51
38	MP3	Y	-13.312	12
39	MP2	Y	-14.6	12
40	MP3	Y	-14.604	12
41	MP2	Y	-12.69	12
42	M9	Y	-11.172	21
43	M7	Y	-8.528	21
44	MP2	Y	-5.707	51
45	MP6	Y	-33.819	11.9
46	MP6	Y	-33.819	72
47	MP7	Y	-20.666	11.6
48	MP7	Y	-20.666	72
49	MP7	Y	-5.946	51
50	MP7	Y	-12.018	12
51	MP6	Y	-13.96	12
52	MP7	Y	-13.719	12
53	MP6	Y	-12.358	12
54	MP6	Y	-5.946	51
55	MP10	Y	-48.981	11.9
56	MP10	Y	-48.981	72

Member Point Loads (BLC 20 : Ice Wind Load 120 AZI) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
57	MP11	Y	-29.319	11.6
58	MP11	Y	-29.319	72
59	MP11	Y	-6.761	51
60	MP11	Y	-7.606	12
61	MP10	Y	-11.778	12
62	MP11	Y	-10.698	12
63	MP10	Y	-11.226	12
64	MP10	Y	-6.761	51

Member Point Loads (BLC 21 : Ice Wind Load 135 AZI)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP2	X	41.315	0
2	MP2	X	41.315	72
3	MP3	X	22.86	0
4	MP3	X	22.86	72
5	MP3	X	4.959	51
6	MP3	X	9.251	12
7	MP2	X	11.12	12
8	MP3	X	10.816	12
9	MP2	X	9.946	12
10	M9	X	9.122	21
11	M7	X	6.963	21
12	MP2	X	4.959	51
13	MP6	X	22.396	11.9
14	MP6	X	22.396	72
15	MP7	X	13.897	11.6
16	MP7	X	13.897	72
17	MP7	X	4.575	51
18	MP7	X	11.331	12
19	MP6	X	12.149	12
20	MP7	X	12.241	12
21	MP6	X	10.48	12
22	MP6	X	4.575	51
23	MP10	X	40.495	11.9
24	MP10	X	40.495	72
25	MP11	X	24.225	11.6
26	MP11	X	24.225	72
27	MP11	X	5.547	51
28	MP11	X	6.064	12
29	MP10	X	9.545	12
30	MP11	X	8.635	12
31	MP10	X	9.129	12
32	MP10	X	5.547	51
33	MP2	Y	-41.315	0
34	MP2	Y	-41.315	72
35	MP3	Y	-22.86	0
36	MP3	Y	-22.86	72
37	MP3	Y	-4.959	51
38	MP3	Y	-9.251	12
39	MP2	Y	-11.12	12
40	MP3	Y	-10.816	12

Member Point Loads (BLC 21 : Ice Wind Load 135 AZI) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
41	MP2	Y	-9.946	12
42	M9	Y	-9.122	21
43	M7	Y	-6.963	21
44	MP2	Y	-4.959	51
45	MP6	Y	-22.396	11.9
46	MP6	Y	-22.396	72
47	MP7	Y	-13.897	11.6
48	MP7	Y	-13.897	72
49	MP7	Y	-4.575	51
50	MP7	Y	-11.331	12
51	MP6	Y	-12.149	12
52	MP7	Y	-12.241	12
53	MP6	Y	-10.48	12
54	MP6	Y	-4.575	51
55	MP10	Y	-40.495	11.9
56	MP10	Y	-40.495	72
57	MP11	Y	-24.225	11.6
58	MP11	Y	-24.225	72
59	MP11	Y	-5.547	51
60	MP11	Y	-6.064	12
61	MP10	Y	-9.545	12
62	MP11	Y	-8.635	12
63	MP10	Y	-9.129	12
64	MP10	Y	-5.547	51

Member Point Loads (BLC 22 : Ice Wind Load 150 AZI)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP2	X	58.197	0
2	MP2	X	58.197	72
3	MP3	X	32.841	0
4	MP3	X	32.841	72
5	MP3	X	6.439	51
6	MP3	X	9.348	12
7	MP2	X	12.64	12
8	MP3	X	11.891	12
9	MP2	X	11.673	12
10	M9	X	11.172	21
11	M7	X	8.528	21
12	MP2	X	6.439	51
13	MP6	X	23.386	11.9
14	MP6	X	23.386	72
15	MP7	X	14.712	11.6
16	MP7	X	14.712	72
17	MP7	X	5.385	51
18	MP7	X	15.054	12
19	MP6	X	15.461	12
20	MP7	X	15.797	12
21	MP6	X	13.137	12
22	MP6	X	5.385	51
23	MP10	X	46.616	11.9
24	MP10	X	46.616	72

Member Point Loads (BLC 22 : Ice Wind Load 150 AZI) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
25	MP11	X	27.97	11.6
26	MP11	X	27.97	72
27	MP11	X	6.634	51
28	MP11	X	8.294	12
29	MP10	X	12.118	12
30	MP11	X	11.169	12
31	MP10	X	11.403	12
32	MP10	X	6.634	51
33	MP2	Y	-33.6	0
34	MP2	Y	-33.6	72
35	MP3	Y	-18.961	0
36	MP3	Y	-18.961	72
37	MP3	Y	-3.718	51
38	MP3	Y	-5.397	12
39	MP2	Y	-7.298	12
40	MP3	Y	-6.865	12
41	MP2	Y	-6.74	12
42	M9	Y	-6.45	21
43	M7	Y	-4.924	21
44	MP2	Y	-3.718	51
45	MP6	Y	-13.502	11.9
46	MP6	Y	-13.502	72
47	MP7	Y	-8.494	11.6
48	MP7	Y	-8.494	72
49	MP7	Y	-3.109	51
50	MP7	Y	-8.692	12
51	MP6	Y	-8.927	12
52	MP7	Y	-9.12	12
53	MP6	Y	-7.584	12
54	MP6	Y	-3.109	51
55	MP10	Y	-26.914	11.9
56	MP10	Y	-26.914	72
57	MP11	Y	-16.148	11.6
58	MP11	Y	-16.148	72
59	MP11	Y	-3.83	51
60	MP11	Y	-4.789	12
61	MP10	Y	-6.997	12
62	MP11	Y	-6.448	12
63	MP10	Y	-6.583	12
64	MP10	Y	-3.83	51

Member Point Loads (BLC 23 : Seismic Load X)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP2	X	-5.848	0
2	MP2	X	-5.848	72
3	MP3	X	-7.59	0
4	MP3	X	-7.59	72
5	MP3	X	-2.291	51
6	MP3	X	-6.404	12
7	MP2	X	-8.134	12
8	MP3	X	-6.805	12

Member Point Loads (BLC 23 : Seismic Load X) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
9	MP2	X	-8.248	12
10	M9	X	-3.001	21
11	M7	X	-2.165	21
12	MP2	X	-2.291	51
13	MP6	X	-3.912	11.9
14	MP6	X	-3.912	72
15	MP7	X	-5.745	11.6
16	MP7	X	-5.745	72
17	MP7	X	-2.291	51
18	MP7	X	-6.404	12
19	MP6	X	-8.134	12
20	MP7	X	-6.805	12
21	MP6	X	-8.248	12
22	MP6	X	-2.291	51
23	MP10	X	-3.912	11.9
24	MP10	X	-3.912	72
25	MP11	X	-5.745	11.6
26	MP11	X	-5.745	72
27	MP11	X	-2.291	51
28	MP11	X	-6.404	12
29	MP10	X	-8.134	12
30	MP11	X	-6.805	12
31	MP10	X	-8.248	12
32	MP10	X	-2.291	51

Member Point Loads (BLC 24 : Seismic Load Y)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP2	Y	-5.848	0
2	MP2	Y	-5.848	72
3	MP3	Y	-7.59	0
4	MP3	Y	-7.59	72
5	MP3	Y	-2.291	51
6	MP3	Y	-6.404	12
7	MP2	Y	-8.134	12
8	MP3	Y	-6.805	12
9	MP2	Y	-8.248	12
10	M9	Y	-3.001	21
11	M7	Y	-2.165	21
12	MP2	Y	-2.291	51
13	MP6	Y	-3.912	11.9
14	MP6	Y	-3.912	72
15	MP7	Y	-5.745	11.6
16	MP7	Y	-5.745	72
17	MP7	Y	-2.291	51
18	MP7	Y	-6.404	12
19	MP6	Y	-8.134	12
20	MP7	Y	-6.805	12
21	MP6	Y	-8.248	12
22	MP6	Y	-2.291	51
23	MP10	Y	-3.912	11.9
24	MP10	Y	-3.912	72

Member Point Loads (BLC 24 : Seismic Load Y) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
25	MP11	Y	-5.745	11.6
26	MP11	Y	-5.745	72
27	MP11	Y	-2.291	51
28	MP11	Y	-6.404	12
29	MP10	Y	-8.134	12
30	MP11	Y	-6.805	12
31	MP10	Y	-8.248	12
32	MP10	Y	-2.291	51

Member Point Loads (BLC 25 : Live Load 1 (Lv))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	H1	Z	-250	0

Member Point Loads (BLC 26 : Live Load 2 (Lv))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	H1	Z	-250	%50

Member Point Loads (BLC 27 : Live Load 3 (Lv))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	H1	Z	-250	%100

Member Point Loads (BLC 28 : Live Load 4 (Lv))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	H3	Z	-250	0

Member Point Loads (BLC 29 : Live Load 5 (Lv))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	H3	Z	-250	%50

Member Point Loads (BLC 30 : Live Load 6 (Lv))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	H3	Z	-250	%100

Member Point Loads (BLC 31 : Live Load 7 (Lv))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	H2	Z	-250	0

Member Point Loads (BLC 32 : Live Load 8 (Lv))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	H2	Z	-250	%50

Member Point Loads (BLC 33 : Live Load 9 (Lv))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	H2	Z	-250	%100

Member Point Loads (BLC 34 : Maintenance Load 1 (Lm))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]

Member Point Loads (BLC 34 : Maintenance Load 1 (Lm)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP4	Z	-500	%50

Member Point Loads (BLC 35 : Maintenance Load 2 (Lm))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP3	Z	-500	%50

Member Point Loads (BLC 36 : Maintenance Load 3 (Lm))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP2	Z	-500	%50

Member Point Loads (BLC 37 : Maintenance Load 4 (Lm))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Z	-500	%50

Member Point Loads (BLC 38 : Maintenance Load 5 (Lm))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP12	Z	-500	%50

Member Point Loads (BLC 39 : Maintenance Load 6 (Lm))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP11	Z	-500	%50

Member Point Loads (BLC 40 : Maintenance Load 7 (Lm))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP10	Z	-500	%50

Member Point Loads (BLC 41 : Maintenance Load 8 (Lm))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP9	Z	-500	%50

Member Point Loads (BLC 42 : Maintenance Load 9 (Lm))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP8	Z	-500	%50

Member Point Loads (BLC 43 : Maintenance Load 10 (Lm))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP7	Z	-500	%50

Member Point Loads (BLC 44 : Maintenance Load 11 (Lm))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP6	Z	-500	%50

Member Point Loads (BLC 45 : Maintenance Load 12 (Lm))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP5	Z	-500	%50

Member Distributed Loads (BLC 2 : Structure Wind X)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	SX	-93.625	-93.625	0	%100
2	M2	SX	-93.625	-93.625	0	%100
3	M3	SX	-93.625	-93.625	0	%100
4	H1	SX	-93.625	-93.625	0	%100
5	H3	SX	-93.625	-93.625	0	%100
6	H2	SX	-93.625	-93.625	0	%100
7	M7	SX	-93.625	-93.625	0	%100
8	M8	SX	-93.625	-93.625	0	%100
9	M9	SX	-93.625	-93.625	0	%100
10	M13	SX	-93.625	-93.625	0	%100
11	M14	SX	-93.625	-93.625	0	%100
12	M15	SX	-93.625	-93.625	0	%100
13	MP4	SX	-56.175	-56.175	0	%100
14	MP3	SX	-56.175	-56.175	0	%100
15	MP2	SX	-56.175	-56.175	0	%100
16	MP1	SX	-56.175	-56.175	0	%100
17	MP12	SX	-56.175	-56.175	0	%100
18	MP11	SX	-56.175	-56.175	0	%100
19	MP10	SX	-56.175	-56.175	0	%100
20	MP9	SX	-56.175	-56.175	0	%100
21	MP8	SX	-56.175	-56.175	0	%100
22	MP7	SX	-56.175	-56.175	0	%100
23	MP6	SX	-56.175	-56.175	0	%100
24	MP5	SX	-56.175	-56.175	0	%100
25	M29	SX	-93.625	-93.625	0	%100
26	M31	SX	-93.625	-93.625	0	%100
27	M33	SX	-93.625	-93.625	0	%100
28	M35	SX	-93.625	-93.625	0	%100
29	M36	SX	-93.625	-93.625	0	%100
30	M37	SX	-93.625	-93.625	0	%100
31	M38	SX	-93.625	-93.625	0	%100
32	M39	SX	-93.625	-93.625	0	%100
33	M40	SX	-93.625	-93.625	0	%100
34	M41	SX	-93.625	-93.625	0	%100
35	M42	SX	-93.625	-93.625	0	%100
36	M44	SX	-93.625	-93.625	0	%100
37	M46	SX	-93.625	-93.625	0	%100
38	M48	SX	-93.625	-93.625	0	%100
39	M50	SX	-93.625	-93.625	0	%100
40	M52	SX	-93.625	-93.625	0	%100
41	M54	SX	-93.625	-93.625	0	%100
42	M56	SX	-93.625	-93.625	0	%100
43	M58	SX	-93.625	-93.625	0	%100
44	M59	SX	-93.625	-93.625	0	%100
45	M60	SX	-93.625	-93.625	0	%100
46	M46A	SX	-56.175	-56.175	0	%100
47	M47	SX	-56.175	-56.175	0	%100
48	M48A	SX	-56.175	-56.175	0	%100
49	M55	SX	-56.175	-56.175	0	%100
50	M56A	SX	-56.175	-56.175	0	%100
51	M57	SX	-56.175	-56.175	0	%100

Member Distributed Loads (BLC 2 : Structure Wind X) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
52	M58A	SX	-93.625	-93.625	0	%100
53	M59A	SX	-93.625	-93.625	0	%100
54	M60A	SX	-93.625	-93.625	0	%100
55	M61	SX	-93.625	-93.625	0	%100
56	M62	SX	-93.625	-93.625	0	%100
57	M63	SX	-93.625	-93.625	0	%100
58	M64	SX	-93.625	-93.625	0	%100
59	M65	SX	-93.625	-93.625	0	%100
60	M66	SX	-93.625	-93.625	0	%100
61	M67	SX	-93.625	-93.625	0	%100
62	M68	SX	-93.625	-93.625	0	%100
63	M69	SX	-93.625	-93.625	0	%100
64	M72A	SX	-93.625	-93.625	0	%100
65	M73A	SX	-93.625	-93.625	0	%100
66	M74	SX	-93.625	-93.625	0	%100
67	M75	SX	-93.625	-93.625	0	%100
68	M76	SX	-93.625	-93.625	0	%100
69	M77	SX	-93.625	-93.625	0	%100
70	M78	SX	-93.625	-93.625	0	%100
71	M79	SX	-93.625	-93.625	0	%100
72	M80	SX	-93.625	-93.625	0	%100
73	M81	SX	-93.625	-93.625	0	%100
74	M82	SX	-93.625	-93.625	0	%100
75	M83	SX	-93.625	-93.625	0	%100

Member Distributed Loads (BLC 3 : Structure Wind Y)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	SY	-93.625	-93.625	0	%100
2	M2	SY	-93.625	-93.625	0	%100
3	M3	SY	-93.625	-93.625	0	%100
4	H1	SY	-93.625	-93.625	0	%100
5	H3	SY	-93.625	-93.625	0	%100
6	H2	SY	-93.625	-93.625	0	%100
7	M7	SY	-93.625	-93.625	0	%100
8	M8	SY	-93.625	-93.625	0	%100
9	M9	SY	-93.625	-93.625	0	%100
10	M13	SY	-93.625	-93.625	0	%100
11	M14	SY	-93.625	-93.625	0	%100
12	M15	SY	-93.625	-93.625	0	%100
13	MP4	SY	-56.175	-56.175	0	%100
14	MP3	SY	-56.175	-56.175	0	%100
15	MP2	SY	-56.175	-56.175	0	%100
16	MP1	SY	-56.175	-56.175	0	%100
17	MP12	SY	-56.175	-56.175	0	%100
18	MP11	SY	-56.175	-56.175	0	%100
19	MP10	SY	-56.175	-56.175	0	%100
20	MP9	SY	-56.175	-56.175	0	%100
21	MP8	SY	-56.175	-56.175	0	%100
22	MP7	SY	-56.175	-56.175	0	%100
23	MP6	SY	-56.175	-56.175	0	%100
24	MP5	SY	-56.175	-56.175	0	%100

Member Distributed Loads (BLC 3 : Structure Wind Y) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
25	M29	SY	-93.625	-93.625	0	%100
26	M31	SY	-93.625	-93.625	0	%100
27	M33	SY	-93.625	-93.625	0	%100
28	M35	SY	-93.625	-93.625	0	%100
29	M36	SY	-93.625	-93.625	0	%100
30	M37	SY	-93.625	-93.625	0	%100
31	M38	SY	-93.625	-93.625	0	%100
32	M39	SY	-93.625	-93.625	0	%100
33	M40	SY	-93.625	-93.625	0	%100
34	M41	SY	-93.625	-93.625	0	%100
35	M42	SY	-93.625	-93.625	0	%100
36	M44	SY	-93.625	-93.625	0	%100
37	M46	SY	-93.625	-93.625	0	%100
38	M48	SY	-93.625	-93.625	0	%100
39	M50	SY	-93.625	-93.625	0	%100
40	M52	SY	-93.625	-93.625	0	%100
41	M54	SY	-93.625	-93.625	0	%100
42	M56	SY	-93.625	-93.625	0	%100
43	M58	SY	-93.625	-93.625	0	%100
44	M59	SY	-93.625	-93.625	0	%100
45	M60	SY	-93.625	-93.625	0	%100
46	M46A	SY	-56.175	-56.175	0	%100
47	M47	SY	-56.175	-56.175	0	%100
48	M48A	SY	-56.175	-56.175	0	%100
49	M55	SY	-56.175	-56.175	0	%100
50	M56A	SY	-56.175	-56.175	0	%100
51	M57	SY	-56.175	-56.175	0	%100
52	M58A	SY	-93.625	-93.625	0	%100
53	M59A	SY	-93.625	-93.625	0	%100
54	M60A	SY	-93.625	-93.625	0	%100
55	M61	SY	-93.625	-93.625	0	%100
56	M62	SY	-93.625	-93.625	0	%100
57	M63	SY	-93.625	-93.625	0	%100
58	M64	SY	-93.625	-93.625	0	%100
59	M65	SY	-93.625	-93.625	0	%100
60	M66	SY	-93.625	-93.625	0	%100
61	M67	SY	-93.625	-93.625	0	%100
62	M68	SY	-93.625	-93.625	0	%100
63	M69	SY	-93.625	-93.625	0	%100
64	M72A	SY	-93.625	-93.625	0	%100
65	M73A	SY	-93.625	-93.625	0	%100
66	M74	SY	-93.625	-93.625	0	%100
67	M75	SY	-93.625	-93.625	0	%100
68	M76	SY	-93.625	-93.625	0	%100
69	M77	SY	-93.625	-93.625	0	%100
70	M78	SY	-93.625	-93.625	0	%100
71	M79	SY	-93.625	-93.625	0	%100
72	M80	SY	-93.625	-93.625	0	%100
73	M81	SY	-93.625	-93.625	0	%100
74	M82	SY	-93.625	-93.625	0	%100
75	M83	SY	-93.625	-93.625	0	%100

Member Distributed Loads (BLC 12 : Ice Weight)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	Z	-17.765	-17.765	0	%100
2	M2	Z	-17.765	-17.765	0	%100
3	M3	Z	-17.765	-17.765	0	%100
4	H1	Z	-12.745	-12.745	0	%100
5	H3	Z	-12.745	-12.745	0	%100
6	H2	Z	-12.745	-12.745	0	%100
7	M7	Z	-12.745	-12.745	0	%100
8	M8	Z	-12.745	-12.745	0	%100
9	M9	Z	-12.745	-12.745	0	%100
10	M13	Z	-16.487	-16.487	0	%100
11	M14	Z	-16.487	-16.487	0	%100
12	M15	Z	-16.487	-16.487	0	%100
13	MP4	Z	-8.768	-8.768	0	%100
14	MP3	Z	-8.768	-8.768	0	%100
15	MP2	Z	-8.768	-8.768	0	%100
16	MP1	Z	-8.768	-8.768	0	%100
17	MP12	Z	-8.768	-8.768	0	%100
18	MP11	Z	-8.768	-8.768	0	%100
19	MP10	Z	-8.768	-8.768	0	%100
20	MP9	Z	-8.768	-8.768	0	%100
21	MP8	Z	-8.768	-8.768	0	%100
22	MP7	Z	-8.768	-8.768	0	%100
23	MP6	Z	-8.768	-8.768	0	%100
24	MP5	Z	-8.768	-8.768	0	%100
25	M29	Z	0	0	0	%100
26	M31	Z	0	0	0	%100
27	M33	Z	0	0	0	%100
28	M35	Z	0	0	0	%100
29	M36	Z	0	0	0	%100
30	M37	Z	0	0	0	%100
31	M38	Z	0	0	0	%100
32	M39	Z	0	0	0	%100
33	M40	Z	0	0	0	%100
34	M41	Z	0	0	0	%100
35	M42	Z	0	0	0	%100
36	M44	Z	0	0	0	%100
37	M46	Z	0	0	0	%100
38	M48	Z	0	0	0	%100
39	M50	Z	0	0	0	%100
40	M52	Z	0	0	0	%100
41	M54	Z	0	0	0	%100
42	M56	Z	0	0	0	%100
43	M58	Z	0	0	0	%100
44	M59	Z	0	0	0	%100
45	M60	Z	0	0	0	%100
46	M46A	Z	-8.768	-8.768	0	%100
47	M47	Z	-8.768	-8.768	0	%100
48	M48A	Z	-8.768	-8.768	0	%100
49	M55	Z	-8.768	-8.768	0	%100
50	M56A	Z	-8.768	-8.768	0	%100
51	M57	Z	-8.768	-8.768	0	%100
52	M58A	Z	0	0	0	%100

Member Distributed Loads (BLC 12 : Ice Weight) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
53	M59A	Z	0	0	0	%100
54	M60A	Z	0	0	0	%100
55	M61	Z	0	0	0	%100
56	M62	Z	0	0	0	%100
57	M63	Z	0	0	0	%100
58	M64	Z	0	0	0	%100
59	M65	Z	0	0	0	%100
60	M66	Z	0	0	0	%100
61	M67	Z	0	0	0	%100
62	M68	Z	0	0	0	%100
63	M69	Z	0	0	0	%100
64	M72A	Z	-11.239	-11.239	0	%100
65	M73A	Z	-11.239	-11.239	0	%100
66	M74	Z	-11.239	-11.239	0	%100
67	M75	Z	-11.239	-11.239	0	%100
68	M76	Z	-11.239	-11.239	0	%100
69	M77	Z	-11.239	-11.239	0	%100
70	M78	Z	0	0	0	%100
71	M79	Z	0	0	0	%100
72	M80	Z	0	0	0	%100
73	M81	Z	0	0	0	%100
74	M82	Z	0	0	0	%100
75	M83	Z	0	0	0	%100

Member Distributed Loads (BLC 13 : Ice Structure Wind X)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	SX	-11.611	-11.611	0	%100
2	M2	SX	-11.611	-11.611	0	%100
3	M3	SX	-11.611	-11.611	0	%100
4	H1	SX	-13.84	-13.84	0	%100
5	H3	SX	-13.84	-13.84	0	%100
6	H2	SX	-13.84	-13.84	0	%100
7	M7	SX	-13.84	-13.84	0	%100
8	M8	SX	-13.84	-13.84	0	%100
9	M9	SX	-13.84	-13.84	0	%100
10	M13	SX	-12.012	-12.012	0	%100
11	M14	SX	-12.012	-12.012	0	%100
12	M15	SX	-12.012	-12.012	0	%100
13	MP4	SX	-18.749	-18.749	0	%100
14	MP3	SX	-18.749	-18.749	0	%100
15	MP2	SX	-18.749	-18.749	0	%100
16	MP1	SX	-18.749	-18.749	0	%100
17	MP12	SX	-18.749	-18.749	0	%100
18	MP11	SX	-18.749	-18.749	0	%100
19	MP10	SX	-18.749	-18.749	0	%100
20	MP9	SX	-18.749	-18.749	0	%100
21	MP8	SX	-18.749	-18.749	0	%100
22	MP7	SX	-18.749	-18.749	0	%100
23	MP6	SX	-18.749	-18.749	0	%100
24	MP5	SX	-18.749	-18.749	0	%100
25	M29	SX	0	0	0	%100

Member Distributed Loads (BLC 13 : Ice Structure Wind X) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
26	M31	SX	0	0	0	%100
27	M33	SX	0	0	0	%100
28	M35	SX	0	0	0	%100
29	M36	SX	0	0	0	%100
30	M37	SX	0	0	0	%100
31	M38	SX	0	0	0	%100
32	M39	SX	0	0	0	%100
33	M40	SX	0	0	0	%100
34	M41	SX	0	0	0	%100
35	M42	SX	0	0	0	%100
36	M44	SX	0	0	0	%100
37	M46	SX	0	0	0	%100
38	M48	SX	0	0	0	%100
39	M50	SX	0	0	0	%100
40	M52	SX	0	0	0	%100
41	M54	SX	0	0	0	%100
42	M56	SX	0	0	0	%100
43	M58	SX	0	0	0	%100
44	M59	SX	0	0	0	%100
45	M60	SX	0	0	0	%100
46	M46A	SX	-18.749	-18.749	0	%100
47	M47	SX	-18.749	-18.749	0	%100
48	M48A	SX	-18.749	-18.749	0	%100
49	M55	SX	-18.749	-18.749	0	%100
50	M56A	SX	-18.749	-18.749	0	%100
51	M57	SX	-18.749	-18.749	0	%100
52	M58A	SX	0	0	0	%100
53	M59A	SX	0	0	0	%100
54	M60A	SX	0	0	0	%100
55	M61	SX	0	0	0	%100
56	M62	SX	0	0	0	%100
57	M63	SX	0	0	0	%100
58	M64	SX	0	0	0	%100
59	M65	SX	0	0	0	%100
60	M66	SX	0	0	0	%100
61	M67	SX	0	0	0	%100
62	M68	SX	0	0	0	%100
63	M69	SX	0	0	0	%100
64	M72A	SX	-15.089	-15.089	0	%100
65	M73A	SX	-15.089	-15.089	0	%100
66	M74	SX	-15.089	-15.089	0	%100
67	M75	SX	-15.089	-15.089	0	%100
68	M76	SX	-15.089	-15.089	0	%100
69	M77	SX	-15.089	-15.089	0	%100
70	M78	SX	0	0	0	%100
71	M79	SX	0	0	0	%100
72	M80	SX	0	0	0	%100
73	M81	SX	0	0	0	%100
74	M82	SX	0	0	0	%100
75	M83	SX	0	0	0	%100

Member Distributed Loads (BLC 14 : Ice Structure Wind Y)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	SY	-11.611	-11.611	0	%100
2	M2	SY	-11.611	-11.611	0	%100
3	M3	SY	-11.611	-11.611	0	%100
4	H1	SY	-13.84	-13.84	0	%100
5	H3	SY	-13.84	-13.84	0	%100
6	H2	SY	-13.84	-13.84	0	%100
7	M7	SY	-13.84	-13.84	0	%100
8	M8	SY	-13.84	-13.84	0	%100
9	M9	SY	-13.84	-13.84	0	%100
10	M13	SY	-12.012	-12.012	0	%100
11	M14	SY	-12.012	-12.012	0	%100
12	M15	SY	-12.012	-12.012	0	%100
13	MP4	SY	-18.749	-18.749	0	%100
14	MP3	SY	-18.749	-18.749	0	%100
15	MP2	SY	-18.749	-18.749	0	%100
16	MP1	SY	-18.749	-18.749	0	%100
17	MP12	SY	-18.749	-18.749	0	%100
18	MP11	SY	-18.749	-18.749	0	%100
19	MP10	SY	-18.749	-18.749	0	%100
20	MP9	SY	-18.749	-18.749	0	%100
21	MP8	SY	-18.749	-18.749	0	%100
22	MP7	SY	-18.749	-18.749	0	%100
23	MP6	SY	-18.749	-18.749	0	%100
24	MP5	SY	-18.749	-18.749	0	%100
25	M29	SY	0	0	0	%100
26	M31	SY	0	0	0	%100
27	M33	SY	0	0	0	%100
28	M35	SY	0	0	0	%100
29	M36	SY	0	0	0	%100
30	M37	SY	0	0	0	%100
31	M38	SY	0	0	0	%100
32	M39	SY	0	0	0	%100
33	M40	SY	0	0	0	%100
34	M41	SY	0	0	0	%100
35	M42	SY	0	0	0	%100
36	M44	SY	0	0	0	%100
37	M46	SY	0	0	0	%100
38	M48	SY	0	0	0	%100
39	M50	SY	0	0	0	%100
40	M52	SY	0	0	0	%100
41	M54	SY	0	0	0	%100
42	M56	SY	0	0	0	%100
43	M58	SY	0	0	0	%100
44	M59	SY	0	0	0	%100
45	M60	SY	0	0	0	%100
46	M46A	SY	-18.749	-18.749	0	%100
47	M47	SY	-18.749	-18.749	0	%100
48	M48A	SY	-18.749	-18.749	0	%100
49	M55	SY	-18.749	-18.749	0	%100
50	M56A	SY	-18.749	-18.749	0	%100
51	M57	SY	-18.749	-18.749	0	%100
52	M58A	SY	0	0	0	%100

Member Distributed Loads (BLC 14 : Ice Structure Wind Y) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
53	M59A	SY	0	0	0	%100
54	M60A	SY	0	0	0	%100
55	M61	SY	0	0	0	%100
56	M62	SY	0	0	0	%100
57	M63	SY	0	0	0	%100
58	M64	SY	0	0	0	%100
59	M65	SY	0	0	0	%100
60	M66	SY	0	0	0	%100
61	M67	SY	0	0	0	%100
62	M68	SY	0	0	0	%100
63	M69	SY	0	0	0	%100
64	M72A	SY	-15.089	-15.089	0	%100
65	M73A	SY	-15.089	-15.089	0	%100
66	M74	SY	-15.089	-15.089	0	%100
67	M75	SY	-15.089	-15.089	0	%100
68	M76	SY	-15.089	-15.089	0	%100
69	M77	SY	-15.089	-15.089	0	%100
70	M78	SY	0	0	0	%100
71	M79	SY	0	0	0	%100
72	M80	SY	0	0	0	%100
73	M81	SY	0	0	0	%100
74	M82	SY	0	0	0	%100
75	M83	SY	0	0	0	%100

Member Distributed Loads (BLC 46 : BLC 1 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	H1	Z	-.085	-1.221	0	28
2	H1	Z	-1.221	-1.733	28	56
3	H1	Z	-1.733	-1.912	56	84
4	H1	Z	-1.912	-2.027	84	112
5	H1	Z	-2.027	-1.221	112	140
6	H1	Z	-1.221	-.085	140	168
7	M7	Z	-2.067	-1.51	0	21.215
8	M7	Z	-1.51	-1.231	21.215	42.431
9	M7	Z	-1.231	-1.51	42.431	63.646
10	M7	Z	-1.51	-2.067	63.646	84.862
11	M14	Z	-1.09	-3.02	0	38.4
12	M15	Z	-1.09	-3.02	9.6	48
13	H3	Z	-.085	-1.221	0	28
14	H3	Z	-1.221	-1.733	28	56
15	H3	Z	-1.733	-1.912	56	84
16	H3	Z	-1.912	-2.027	84	112
17	H3	Z	-2.027	-1.221	112	140
18	H3	Z	-1.221	-.085	140	168
19	M8	Z	-2.067	-1.51	0	21.215
20	M8	Z	-1.51	-1.231	21.215	42.431
21	M8	Z	-1.231	-1.51	42.431	63.646
22	M8	Z	-1.51	-2.067	63.646	84.862
23	M13	Z	-1.09	-3.02	0	38.4
24	H2	Z	-.085	-1.221	0	28
25	H2	Z	-1.221	-1.733	28	56

Member Distributed Loads (BLC 46 : BLC 1 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
26	H2	Z	-1.733	-1.912	56	84
27	H2	Z	-1.912	-2.027	84	112
28	H2	Z	-2.027	-1.221	112	140
29	H2	Z	-1.221	-.085	140	168
30	M9	Z	-2.067	-1.51	0	21.215
31	M9	Z	-1.51	-1.231	21.215	42.431
32	M9	Z	-1.231	-1.51	42.431	63.646
33	M9	Z	-1.51	-2.067	63.646	84.862

Member Distributed Loads (BLC 47 : BLC 12 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	H1	Z	-.787	-11.342	0	28
2	H1	Z	-11.342	-16.101	28	56
3	H1	Z	-16.101	-17.767	56	84
4	H1	Z	-17.767	-18.838	84	112
5	H1	Z	-18.838	-11.341	112	140
6	H1	Z	-11.341	-.787	140	168
7	M7	Z	-19.203	-14.03	0	21.215
8	M7	Z	-14.03	-11.442	21.215	42.431
9	M7	Z	-11.442	-14.027	42.431	63.646
10	M7	Z	-14.027	-19.202	63.646	84.862
11	M14	Z	-10.126	-28.061	0	38.4
12	M15	Z	-10.126	-28.061	9.6	48
13	H3	Z	-.787	-11.342	0	28
14	H3	Z	-11.342	-16.101	28	56
15	H3	Z	-16.101	-17.767	56	84
16	H3	Z	-17.767	-18.838	84	112
17	H3	Z	-18.838	-11.341	112	140
18	H3	Z	-11.341	-.787	140	168
19	M8	Z	-19.203	-14.03	0	21.215
20	M8	Z	-14.03	-11.442	21.215	42.431
21	M8	Z	-11.442	-14.027	42.431	63.646
22	M8	Z	-14.027	-19.202	63.646	84.862
23	M13	Z	-10.126	-28.061	0	38.4
24	H2	Z	-.787	-11.342	0	28
25	H2	Z	-11.342	-16.101	28	56
26	H2	Z	-16.101	-17.767	56	84
27	H2	Z	-17.767	-18.838	84	112
28	H2	Z	-18.838	-11.341	112	140
29	H2	Z	-11.341	-.787	140	168
30	M9	Z	-19.203	-14.03	0	21.215
31	M9	Z	-14.03	-11.442	21.215	42.431
32	M9	Z	-11.442	-14.027	42.431	63.646
33	M9	Z	-14.027	-19.202	63.646	84.862

Member Area Loads (BLC 1 : Self Weight)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[psf]
1	N952	N956	N957	N953	Z	Two Way	-1.75
2	N953	N957	N955	N951	Z	Two Way	-1.75
3	N951	N955	N956	N952	Z	Two Way	-1.75

Member Area Loads (BLC 12 : Ice Weight)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[psf]
1	N952	N956	N957	N953	Z	Two Way	-16.26
2	N953	N957	N955	N951	Z	Two Way	-16.26
3	N951	N955	N956	N952	Z	Two Way	-16.26

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
1	Self Weight	DL			-1		32		3	
2	Structure Wind X	WLX						75		
3	Structure Wind Y	WLY						75		
4	Wind Load 0 AZI	WLX					64			
5	Wind Load 30 AZI	None					64			
6	Wind Load 45 AZI	None					64			
7	Wind Load 60 AZI	None					64			
8	Wind Load 90 AZI	WLY					64			
9	Wind Load 120 AZI	None					64			
10	Wind Load 135 AZI	None					64			
11	Wind Load 150 AZI	None					64			
12	Ice Weight	OL1					32	75	3	
13	Ice Structure Wind X	OL2						75		
14	Ice Structure Wind Y	OL3						75		
15	Ice Wind Load 0 AZI	OL2					64			
16	Ice Wind Load 30 AZI	None					64			
17	Ice Wind Load 45 AZI	None					64			
18	Ice Wind Load 60 AZI	None					64			
19	Ice Wind Load 90 AZI	OL3					64			
20	Ice Wind Load 120 AZI	None					64			
21	Ice Wind Load 135 AZI	None					64			
22	Ice Wind Load 150 AZI	None					64			
23	Seismic Load X	ELX	-.115				32			
24	Seismic Load Y	ELY		-.115			32			
25	Live Load 1 (Lv)	None					1			
26	Live Load 2 (Lv)	None					1			
27	Live Load 3 (Lv)	None					1			
28	Live Load 4 (Lv)	None					1			
29	Live Load 5 (Lv)	None					1			
30	Live Load 6 (Lv)	None					1			
31	Live Load 7 (Lv)	None					1			
32	Live Load 8 (Lv)	None					1			
33	Live Load 9 (Lv)	None					1			
34	Maintenance Load 1 (...	None					1			
35	Maintenance Load 2 (...	None					1			
36	Maintenance Load 3 (...	None					1			
37	Maintenance Load 4 (...	None					1			
38	Maintenance Load 5 (...	None					1			
39	Maintenance Load 6 (...	None					1			
40	Maintenance Load 7 (...	None					1			
41	Maintenance Load 8 (...	None					1			
42	Maintenance Load 9 (...	None					1			
43	Maintenance Load 10 ...	None					1			
44	Maintenance Load 11 ...	None					1			

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
45	Maintenance Load 12 ...	None					1			
46	BLC 1 Transient Area...	None						33		
47	BLC 12 Transient Are...	None						33		

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..	BLC	Fac...
1	1.4DL	Yes	Y		DL	1.4																				
2	1.2DL + 1WL 0 AZI	Yes	Y		DL	1.2	2	1	3		4	1														
3	1.2DL + 1WL 30 AZI	Yes	Y		DL	1.2	2	.866	3	.5	5	1														
4	1.2DL + 1WL 45 AZI	Yes	Y		DL	1.2	2	.707	3	.707	6	1														
5	1.2DL + 1WL 60 AZI	Yes	Y		DL	1.2	2	.5	3	.866	7	1														
6	1.2DL + 1WL 90 AZI	Yes	Y		DL	1.2	2		3	1	8	1														
7	1.2DL + 1WL 120 AZI	Yes	Y		DL	1.2	2	-.5	3	.866	9	1														
8	1.2DL + 1WL 135 AZI	Yes	Y		DL	1.2	2	-.707	3	.707	10	1														
9	1.2DL + 1WL 150 AZI	Yes	Y		DL	1.2	2	-.866	3	.5	11	1														
10	1.2DL + 1WL 180 AZI	Yes	Y		DL	1.2	2	-1	3		4	-1														
11	1.2DL + 1WL 210 AZI	Yes	Y		DL	1.2	2	-.866	3	-.5	5	-1														
12	1.2DL + 1WL 225 AZI	Yes	Y		DL	1.2	2	-.707	3	-.707	6	-1														
13	1.2DL + 1WL 240 AZI	Yes	Y		DL	1.2	2	-.5	3	-.866	7	-1														
14	1.2DL + 1WL 270 AZI	Yes	Y		DL	1.2	2		3	-1	8	-1														
15	1.2DL + 1WL 300 AZI	Yes	Y		DL	1.2	2	.5	3	-.866	9	-1														
16	1.2DL + 1WL 315 AZI	Yes	Y		DL	1.2	2	.707	3	-.707	10	-1														
17	1.2DL + 1WL 330 AZI	Yes	Y		DL	1.2	2	.866	3	-.5	11	-1														
18	0.9DL + 1WL 0 AZI	Yes	Y		DL	.9	2	1	3		4	1														
19	0.9DL + 1WL 30 AZI	Yes	Y		DL	.9	2	.866	3	.5	5	1														
20	0.9DL + 1WL 45 AZI	Yes	Y		DL	.9	2	.707	3	.707	6	1														
21	0.9DL + 1WL 60 AZI	Yes	Y		DL	.9	2	.5	3	.866	7	1														
22	0.9DL + 1WL 90 AZI	Yes	Y		DL	.9	2		3	1	8	1														
23	0.9DL + 1WL 120 AZI	Yes	Y		DL	.9	2	-.5	3	.866	9	1														
24	0.9DL + 1WL 135 AZI	Yes	Y		DL	.9	2	-.707	3	.707	10	1														
25	0.9DL + 1WL 150 AZI	Yes	Y		DL	.9	2	-.866	3	.5	11	1														
26	0.9DL + 1WL 180 AZI	Yes	Y		DL	.9	2	-1	3		4	-1														
27	0.9DL + 1WL 210 AZI	Yes	Y		DL	.9	2	-.866	3	-.5	5	-1														
28	0.9DL + 1WL 225 AZI	Yes	Y		DL	.9	2	-.707	3	-.707	6	-1														
29	0.9DL + 1WL 240 AZI	Yes	Y		DL	.9	2	-.5	3	-.866	7	-1														
30	0.9DL + 1WL 270 AZI	Yes	Y		DL	.9	2		3	-1	8	-1														
31	0.9DL + 1WL 300 AZI	Yes	Y		DL	.9	2	.5	3	-.866	9	-1														
32	0.9DL + 1WL 315 AZI	Yes	Y		DL	.9	2	.707	3	-.707	10	-1														
33	0.9DL + 1WL 330 AZI	Yes	Y		DL	.9	2	.866	3	-.5	11	-1														
34	1.2DL + 1DLi + 1WLi 0 A...	Yes	Y		DL	1.2	OL1	1	13	1	14		15	1												
35	1.2DL + 1DLi + 1WLi 30 ...	Yes	Y		DL	1.2	OL1	1	13	.866	14	.5	16	1												
36	1.2DL + 1DLi + 1WLi 45 ...	Yes	Y		DL	1.2	OL1	1	13	.707	14	.707	17	1												
37	1.2DL + 1DLi + 1WLi 60 ...	Yes	Y		DL	1.2	OL1	1	13	.5	14	.866	18	1												
38	1.2DL + 1DLi + 1WLi 90 ...	Yes	Y		DL	1.2	OL1	1	13		14	1	19	1												
39	1.2DL + 1DLi + 1WLi 12...	Yes	Y		DL	1.2	OL1	1	13	-.5	14	.866	20	1												
40	1.2DL + 1DLi + 1WLi 13...	Yes	Y		DL	1.2	OL1	1	13	-.707	14	.707	21	1												
41	1.2DL + 1DLi + 1WLi 15...	Yes	Y		DL	1.2	OL1	1	13	-.866	14	.5	22	1												
42	1.2DL + 1DLi + 1WLi 18...	Yes	Y		DL	1.2	OL1	1	13	-1	14		15	-1												
43	1.2DL + 1DLi + 1WLi 21...	Yes	Y		DL	1.2	OL1	1	13	-.866	14	-.5	16	-1												
44	1.2DL + 1DLi + 1WLi 22...	Yes	Y		DL	1.2	OL1	1	13	-.707	14	-.707	17	-1												

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..	BLC	Fac...
45	1.2DL + 1DLi + 1W Li 24...	Yes	Y		DL	1.2	OL1	1	13	-.5	14	-.866	18	-1												
46	1.2DL + 1DLi + 1W Li 27...	Yes	Y		DL	1.2	OL1	1	13		14	-1	19	-1												
47	1.2DL + 1DLi + 1W Li 30...	Yes	Y		DL	1.2	OL1	1	13	.5	14	-.866	20	-1												
48	1.2DL + 1DLi + 1W Li 31...	Yes	Y		DL	1.2	OL1	1	13	.707	14	-.707	21	-1												
49	1.2DL + 1DLi + 1W Li 33...	Yes	Y		DL	1.2	OL1	1	13	.866	14	-.5	22	-1												
50	(1.2+0.2Sds)DL + 1E 0 A...	Yes	Y		DL	1.2...	23	1	24																	
51	(1.2+0.2Sds)DL + 1E 30 ...	Yes	Y		DL	1.2...	23	.866	24	.5																
52	(1.2+0.2Sds)DL + 1E 45 ...	Yes	Y		DL	1.2...	23	.707	24	.707																
53	(1.2+0.2Sds)DL + 1E 60 ...	Yes	Y		DL	1.2...	23	.5	24	.866																
54	(1.2+0.2Sds)DL + 1E 90 ...	Yes	Y		DL	1.2...	23		24	1																
55	(1.2+0.2Sds)DL + 1E 12...	Yes	Y		DL	1.2...	23	-.5	24	.866																
56	(1.2+0.2Sds)DL + 1E 13...	Yes	Y		DL	1.2...	23	-.707	24	.707																
57	(1.2+0.2Sds)DL + 1E 15...	Yes	Y		DL	1.2...	23	-.866	24	.5																
58	(1.2+0.2Sds)DL + 1E 18...	Yes	Y		DL	1.2...	23	-1	24																	
59	(1.2+0.2Sds)DL + 1E 21...	Yes	Y		DL	1.2...	23	-.866	24	-.5																
60	(1.2+0.2Sds)DL + 1E 22...	Yes	Y		DL	1.2...	23	-.707	24	-.707																
61	(1.2+0.2Sds)DL + 1E 24...	Yes	Y		DL	1.2...	23	-.5	24	-.866																
62	(1.2+0.2Sds)DL + 1E 27...	Yes	Y		DL	1.2...	23		24	-1																
63	(1.2+0.2Sds)DL + 1E 30...	Yes	Y		DL	1.2...	23	.5	24	-.866																
64	(1.2+0.2Sds)DL + 1E 31...	Yes	Y		DL	1.2...	23	.707	24	-.707																
65	(1.2+0.2Sds)DL + 1E 33...	Yes	Y		DL	1.2...	23	.866	24	-.5																
66	(0.9-0.2Sds)DL + 1E 0 AZI	Yes	Y		DL	.862	23	1	24																	
67	(0.9-0.2Sds)DL + 1E 30 ...	Yes	Y		DL	.862	23	.866	24	.5																
68	(0.9-0.2Sds)DL + 1E 45 ...	Yes	Y		DL	.862	23	.707	24	.707																
69	(0.9-0.2Sds)DL + 1E 60 ...	Yes	Y		DL	.862	23	.5	24	.866																
70	(0.9-0.2Sds)DL + 1E 90 ...	Yes	Y		DL	.862	23		24	1																
71	(0.9-0.2Sds)DL + 1E 120...	Yes	Y		DL	.862	23	-.5	24	.866																
72	(0.9-0.2Sds)DL + 1E 135...	Yes	Y		DL	.862	23	-.707	24	.707																
73	(0.9-0.2Sds)DL + 1E 150...	Yes	Y		DL	.862	23	-.866	24	.5																
74	(0.9-0.2Sds)DL + 1E 180...	Yes	Y		DL	.862	23	-1	24																	
75	(0.9-0.2Sds)DL + 1E 210...	Yes	Y		DL	.862	23	-.866	24	-.5																
76	(0.9-0.2Sds)DL + 1E 225...	Yes	Y		DL	.862	23	-.707	24	-.707																
77	(0.9-0.2Sds)DL + 1E 240...	Yes	Y		DL	.862	23	-.5	24	-.866																
78	(0.9-0.2Sds)DL + 1E 270...	Yes	Y		DL	.862	23		24	-1																
79	(0.9-0.2Sds)DL + 1E 300...	Yes	Y		DL	.862	23	.5	24	-.866																
80	(0.9-0.2Sds)DL + 1E 315...	Yes	Y		DL	.862	23	.707	24	-.707																
81	(0.9-0.2Sds)DL + 1E 330...	Yes	Y		DL	.862	23	.866	24	-.5																
82	1.2DL + 1Lv1	Yes	Y		DL	1.2	25	1.5																		
83	1.2DL + 1Lv2	Yes	Y		DL	1.2	26	1.5																		
84	1.2DL + 1Lv3	Yes	Y		DL	1.2	27	1.5																		
85	1.2DL + 1Lv4	Yes	Y		DL	1.2	28	1.5																		
86	1.2DL + 1Lv5	Yes	Y		DL	1.2	29	1.5																		
87	1.2DL + 1Lv6	Yes	Y		DL	1.2	30	1.5																		
88	1.2DL + 1Lv7	Yes	Y		DL	1.2	31	1.5																		
89	1.2DL + 1Lv8	Yes	Y		DL	1.2	32	1.5																		
90	1.2DL + 1Lv9	Yes	Y		DL	1.2	33	1.5																		
91	1.2DL + 1.5Lm + 1Wm 0...	Yes	Y		DL	1.2	34	1.5	2	.058	3		4	.058												
92	1.2DL + 1.5Lm + 1Wm 3...	Yes	Y		DL	1.2	34	1.5	2	.05	3	.029	5	.058												
93	1.2DL + 1.5Lm + 1Wm 4...	Yes	Y		DL	1.2	34	1.5	2	.041	3	.041	6	.058												
94	1.2DL + 1.5Lm + 1Wm 6...	Yes	Y		DL	1.2	34	1.5	2	.029	3	.05	7	.058												
95	1.2DL + 1.5Lm + 1Wm 9...	Yes	Y		DL	1.2	34	1.5	2		3	.058	8	.058												
96	1.2DL + 1.5Lm + 1Wm 1...	Yes	Y		DL	1.2	34	1.5	2	-.029	3	.05	9	.058												

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...
97	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	34	1.5	2	-.041	3	.041	10	.058										
98	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	34	1.5	2	-.05	3	.029	11	.058										
99	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	34	1.5	2	-.058	3		4	-.058										
100	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	34	1.5	2	-.05	3	-.029	5	-.058										
101	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	34	1.5	2	-.041	3	-.041	6	-.058										
102	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	34	1.5	2	-.029	3	-.05	7	-.058										
103	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	34	1.5	2		3	-.058	8	-.058										
104	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	34	1.5	2	.029	3	-.05	9	-.058										
105	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	34	1.5	2	.041	3	-.041	10	-.058										
106	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	34	1.5	2	.05	3	-.029	11	-.058										
107	1.2DL + 1.5Lm + 1Wm 0..	Yes	Y		DL	1.2	35	1.5	2	.058	3		4	.058										
108	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	35	1.5	2	.05	3	.029	5	.058										
109	1.2DL + 1.5Lm + 1Wm 4..	Yes	Y		DL	1.2	35	1.5	2	.041	3	.041	6	.058										
110	1.2DL + 1.5Lm + 1Wm 6..	Yes	Y		DL	1.2	35	1.5	2	.029	3	.05	7	.058										
111	1.2DL + 1.5Lm + 1Wm 9..	Yes	Y		DL	1.2	35	1.5	2		3	.058	8	.058										
112	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	35	1.5	2	-.029	3	.05	9	.058										
113	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	35	1.5	2	-.041	3	.041	10	.058										
114	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	35	1.5	2	-.05	3	.029	11	.058										
115	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	35	1.5	2	-.058	3		4	-.058										
116	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	35	1.5	2	-.05	3	-.029	5	-.058										
117	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	35	1.5	2	-.041	3	-.041	6	-.058										
118	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	35	1.5	2	-.029	3	-.05	7	-.058										
119	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	35	1.5	2		3	-.058	8	-.058										
120	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	35	1.5	2	.029	3	-.05	9	-.058										
121	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	35	1.5	2	.041	3	-.041	10	-.058										
122	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	35	1.5	2	.05	3	-.029	11	-.058										
123	1.2DL + 1.5Lm + 1Wm 0..	Yes	Y		DL	1.2	36	1.5	2	.058	3		4	.058										
124	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	36	1.5	2	.05	3	.029	5	.058										
125	1.2DL + 1.5Lm + 1Wm 4..	Yes	Y		DL	1.2	36	1.5	2	.041	3	.041	6	.058										
126	1.2DL + 1.5Lm + 1Wm 6..	Yes	Y		DL	1.2	36	1.5	2	.029	3	.05	7	.058										
127	1.2DL + 1.5Lm + 1Wm 9..	Yes	Y		DL	1.2	36	1.5	2		3	.058	8	.058										
128	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	36	1.5	2	-.029	3	.05	9	.058										
129	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	36	1.5	2	-.041	3	.041	10	.058										
130	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	36	1.5	2	-.05	3	.029	11	.058										
131	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	36	1.5	2	-.058	3		4	-.058										
132	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	36	1.5	2	-.05	3	-.029	5	-.058										
133	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	36	1.5	2	-.041	3	-.041	6	-.058										
134	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	36	1.5	2	-.029	3	-.05	7	-.058										
135	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	36	1.5	2		3	-.058	8	-.058										
136	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	36	1.5	2	.029	3	-.05	9	-.058										
137	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	36	1.5	2	.041	3	-.041	10	-.058										
138	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	36	1.5	2	.05	3	-.029	11	-.058										
139	1.2DL + 1.5Lm + 1Wm 0..	Yes	Y		DL	1.2	37	1.5	2	.058	3		4	.058										
140	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	37	1.5	2	.05	3	.029	5	.058										
141	1.2DL + 1.5Lm + 1Wm 4..	Yes	Y		DL	1.2	37	1.5	2	.041	3	.041	6	.058										
142	1.2DL + 1.5Lm + 1Wm 6..	Yes	Y		DL	1.2	37	1.5	2	.029	3	.05	7	.058										
143	1.2DL + 1.5Lm + 1Wm 9..	Yes	Y		DL	1.2	37	1.5	2		3	.058	8	.058										
144	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	37	1.5	2	-.029	3	.05	9	.058										
145	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	37	1.5	2	-.041	3	.041	10	.058										
146	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	37	1.5	2	-.05	3	.029	11	.058										
147	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	37	1.5	2	-.058	3		4	-.058										
148	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	37	1.5	2	-.05	3	-.029	5	-.058										

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...
149	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	37	1.5	2	-.041	3	-.041	6	-.058										
150	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	37	1.5	2	-.029	3	-.05	7	-.058										
151	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	37	1.5	2		3	-.058	8	-.058										
152	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	37	1.5	2	.029	3	-.05	9	-.058										
153	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	37	1.5	2	.041	3	-.041	10	-.058										
154	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	37	1.5	2	.05	3	-.029	11	-.058										
155	1.2DL + 1.5Lm + 1Wm 0..	Yes	Y		DL	1.2	38	1.5	2	.058	3		4	.058										
156	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	38	1.5	2	.05	3	.029	5	.058										
157	1.2DL + 1.5Lm + 1Wm 4..	Yes	Y		DL	1.2	38	1.5	2	.041	3	.041	6	.058										
158	1.2DL + 1.5Lm + 1Wm 6..	Yes	Y		DL	1.2	38	1.5	2	.029	3	.05	7	.058										
159	1.2DL + 1.5Lm + 1Wm 9..	Yes	Y		DL	1.2	38	1.5	2		3	.058	8	.058										
160	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	38	1.5	2	-.029	3	.05	9	.058										
161	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	38	1.5	2	-.041	3	.041	10	.058										
162	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	38	1.5	2	-.05	3	.029	11	.058										
163	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	38	1.5	2	-.058	3		4	-.058										
164	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	38	1.5	2	-.05	3	-.029	5	-.058										
165	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	38	1.5	2	-.041	3	-.041	6	-.058										
166	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	38	1.5	2	-.029	3	-.05	7	-.058										
167	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	38	1.5	2		3	-.058	8	-.058										
168	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	38	1.5	2	.029	3	-.05	9	-.058										
169	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	38	1.5	2	.041	3	-.041	10	-.058										
170	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	38	1.5	2	.05	3	-.029	11	-.058										
171	1.2DL + 1.5Lm + 1Wm 0..	Yes	Y		DL	1.2	39	1.5	2	.058	3		4	.058										
172	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	39	1.5	2	.05	3	.029	5	.058										
173	1.2DL + 1.5Lm + 1Wm 4..	Yes	Y		DL	1.2	39	1.5	2	.041	3	.041	6	.058										
174	1.2DL + 1.5Lm + 1Wm 6..	Yes	Y		DL	1.2	39	1.5	2	.029	3	.05	7	.058										
175	1.2DL + 1.5Lm + 1Wm 9..	Yes	Y		DL	1.2	39	1.5	2		3	.058	8	.058										
176	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	39	1.5	2	-.029	3	.05	9	.058										
177	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	39	1.5	2	-.041	3	.041	10	.058										
178	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	39	1.5	2	-.05	3	.029	11	.058										
179	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	39	1.5	2	-.058	3		4	-.058										
180	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	39	1.5	2	-.05	3	-.029	5	-.058										
181	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	39	1.5	2	-.041	3	-.041	6	-.058										
182	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	39	1.5	2	-.029	3	-.05	7	-.058										
183	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	39	1.5	2		3	-.058	8	-.058										
184	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	39	1.5	2	.029	3	-.05	9	-.058										
185	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	39	1.5	2	.041	3	-.041	10	-.058										
186	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	39	1.5	2	.05	3	-.029	11	-.058										
187	1.2DL + 1.5Lm + 1Wm 0..	Yes	Y		DL	1.2	40	1.5	2	.058	3		4	.058										
188	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	40	1.5	2	.05	3	.029	5	.058										
189	1.2DL + 1.5Lm + 1Wm 4..	Yes	Y		DL	1.2	40	1.5	2	.041	3	.041	6	.058										
190	1.2DL + 1.5Lm + 1Wm 6..	Yes	Y		DL	1.2	40	1.5	2	.029	3	.05	7	.058										
191	1.2DL + 1.5Lm + 1Wm 9..	Yes	Y		DL	1.2	40	1.5	2		3	.058	8	.058										
192	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	40	1.5	2	-.029	3	.05	9	.058										
193	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	40	1.5	2	-.041	3	.041	10	.058										
194	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	40	1.5	2	-.05	3	.029	11	.058										
195	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	40	1.5	2	-.058	3		4	-.058										
196	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	40	1.5	2	-.05	3	-.029	5	-.058										
197	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	40	1.5	2	-.041	3	-.041	6	-.058										
198	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	40	1.5	2	-.029	3	-.05	7	-.058										
199	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	40	1.5	2		3	-.058	8	-.058										
200	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	40	1.5	2	.029	3	-.05	9	-.058										

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...
201	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	40	1.5	2	.041	3	-.041	10	-.058										
202	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	40	1.5	2	.05	3	-.029	11	-.058										
203	1.2DL + 1.5Lm + 1Wm 0..	Yes	Y		DL	1.2	41	1.5	2	.058	3		4	.058										
204	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	41	1.5	2	.05	3	.029	5	.058										
205	1.2DL + 1.5Lm + 1Wm 4..	Yes	Y		DL	1.2	41	1.5	2	.041	3	.041	6	.058										
206	1.2DL + 1.5Lm + 1Wm 6..	Yes	Y		DL	1.2	41	1.5	2	.029	3	.05	7	.058										
207	1.2DL + 1.5Lm + 1Wm 9..	Yes	Y		DL	1.2	41	1.5	2		3	.058	8	.058										
208	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	41	1.5	2	-.029	3	.05	9	.058										
209	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	41	1.5	2	-.041	3	.041	10	.058										
210	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	41	1.5	2	-.05	3	.029	11	.058										
211	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	41	1.5	2	-.058	3		4	-.058										
212	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	41	1.5	2	-.05	3	-.029	5	-.058										
213	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	41	1.5	2	-.041	3	-.041	6	-.058										
214	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	41	1.5	2	-.029	3	-.05	7	-.058										
215	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	41	1.5	2		3	-.058	8	-.058										
216	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	41	1.5	2	.029	3	-.05	9	-.058										
217	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	41	1.5	2	.041	3	-.041	10	-.058										
218	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	41	1.5	2	.05	3	-.029	11	-.058										
219	1.2DL + 1.5Lm + 1Wm 0..	Yes	Y		DL	1.2	42	1.5	2	.058	3		4	.058										
220	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	42	1.5	2	.05	3	.029	5	.058										
221	1.2DL + 1.5Lm + 1Wm 4..	Yes	Y		DL	1.2	42	1.5	2	.041	3	.041	6	.058										
222	1.2DL + 1.5Lm + 1Wm 6..	Yes	Y		DL	1.2	42	1.5	2	.029	3	.05	7	.058										
223	1.2DL + 1.5Lm + 1Wm 9..	Yes	Y		DL	1.2	42	1.5	2		3	.058	8	.058										
224	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	42	1.5	2	-.029	3	.05	9	.058										
225	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	42	1.5	2	-.041	3	.041	10	.058										
226	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	42	1.5	2	-.05	3	.029	11	.058										
227	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	42	1.5	2	-.058	3		4	-.058										
228	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	42	1.5	2	-.05	3	-.029	5	-.058										
229	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	42	1.5	2	-.041	3	-.041	6	-.058										
230	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	42	1.5	2	-.029	3	-.05	7	-.058										
231	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	42	1.5	2		3	-.058	8	-.058										
232	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	42	1.5	2	.029	3	-.05	9	-.058										
233	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	42	1.5	2	.041	3	-.041	10	-.058										
234	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	42	1.5	2	.05	3	-.029	11	-.058										
235	1.2DL + 1.5Lm + 1Wm 0..	Yes	Y		DL	1.2	43	1.5	2	.058	3		4	.058										
236	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	43	1.5	2	.05	3	.029	5	.058										
237	1.2DL + 1.5Lm + 1Wm 4..	Yes	Y		DL	1.2	43	1.5	2	.041	3	.041	6	.058										
238	1.2DL + 1.5Lm + 1Wm 6..	Yes	Y		DL	1.2	43	1.5	2	.029	3	.05	7	.058										
239	1.2DL + 1.5Lm + 1Wm 9..	Yes	Y		DL	1.2	43	1.5	2		3	.058	8	.058										
240	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	43	1.5	2	-.029	3	.05	9	.058										
241	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	43	1.5	2	-.041	3	.041	10	.058										
242	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	43	1.5	2	-.05	3	.029	11	.058										
243	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	43	1.5	2	-.058	3		4	-.058										
244	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	43	1.5	2	-.05	3	-.029	5	-.058										
245	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	43	1.5	2	-.041	3	-.041	6	-.058										
246	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	43	1.5	2	-.029	3	-.05	7	-.058										
247	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	43	1.5	2		3	-.058	8	-.058										
248	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	43	1.5	2	.029	3	-.05	9	-.058										
249	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	43	1.5	2	.041	3	-.041	10	-.058										
250	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	43	1.5	2	.05	3	-.029	11	-.058										
251	1.2DL + 1.5Lm + 1Wm 0..	Yes	Y		DL	1.2	44	1.5	2	.058	3		4	.058										
252	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	44	1.5	2	.05	3	.029	5	.058										

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...
253	1.2DL + 1.5Lm + 1Wm 4..	Yes	Y		DL	1.2	44	1.5	2	.041	3	.041	6	.058										
254	1.2DL + 1.5Lm + 1Wm 6..	Yes	Y		DL	1.2	44	1.5	2	.029	3	.05	7	.058										
255	1.2DL + 1.5Lm + 1Wm 9..	Yes	Y		DL	1.2	44	1.5	2		3	.058	8	.058										
256	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	44	1.5	2	-.029	3	.05	9	.058										
257	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	44	1.5	2	-.041	3	.041	10	.058										
258	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	44	1.5	2	-.05	3	.029	11	.058										
259	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	44	1.5	2	-.058	3		4	-.058										
260	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	44	1.5	2	-.05	3	-.029	5	-.058										
261	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	44	1.5	2	-.041	3	-.041	6	-.058										
262	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	44	1.5	2	-.029	3	-.05	7	-.058										
263	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	44	1.5	2		3	-.058	8	-.058										
264	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	44	1.5	2	.029	3	-.05	9	-.058										
265	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	44	1.5	2	.041	3	-.041	10	-.058										
266	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	44	1.5	2	.05	3	-.029	11	-.058										
267	1.2DL + 1.5Lm + 1Wm 0..	Yes	Y		DL	1.2	45	1.5	2	.058	3		4	.058										
268	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	45	1.5	2	.05	3	.029	5	.058										
269	1.2DL + 1.5Lm + 1Wm 4..	Yes	Y		DL	1.2	45	1.5	2	.041	3	.041	6	.058										
270	1.2DL + 1.5Lm + 1Wm 6..	Yes	Y		DL	1.2	45	1.5	2	.029	3	.05	7	.058										
271	1.2DL + 1.5Lm + 1Wm 9..	Yes	Y		DL	1.2	45	1.5	2		3	.058	8	.058										
272	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	45	1.5	2	-.029	3	.05	9	.058										
273	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	45	1.5	2	-.041	3	.041	10	.058										
274	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	45	1.5	2	-.05	3	.029	11	.058										
275	1.2DL + 1.5Lm + 1Wm 1..	Yes	Y		DL	1.2	45	1.5	2	-.058	3		4	-.058										
276	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	45	1.5	2	-.05	3	-.029	5	-.058										
277	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	45	1.5	2	-.041	3	-.041	6	-.058										
278	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	45	1.5	2	-.029	3	-.05	7	-.058										
279	1.2DL + 1.5Lm + 1Wm 2..	Yes	Y		DL	1.2	45	1.5	2		3	-.058	8	-.058										
280	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	45	1.5	2	.029	3	-.05	9	-.058										
281	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	45	1.5	2	.041	3	-.041	10	-.058										
282	1.2DL + 1.5Lm + 1Wm 3..	Yes	Y		DL	1.2	45	1.5	2	.05	3	-.029	11	-.058										

Envelope Joint Reactions

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
1	N183	max	1351.582	18	1877.016	22	1854.785	42	226.194	5	-525.851	18	1657.486	5
2		min	-1543.799	10	-1883.114	14	209.729	18	-222.275	29	-4356.604	42	-1657.935	29
3	N486	max	1999.864	2	1368.087	22	1610.443	47	3333.705	48	1923.135	46	2013.452	10
4		min	-1931.116	26	-1527.245	14	59.973	23	114.696	24	33.242	22	-1978.858	18
5	N768	max	1807.881	17	1617.928	6	1701.573	37	-170.426	29	1952.229	38	2070.674	31
6		min	-1740.112	25	-1453.75	30	84.734	29	-3410.86	37	-1.943	30	-2100.29	7
7	N127	max	2506.644	34	424.208	143	1806.007	34	27.759	140	1.005	26	13.142	143
8		min	-135.051	26	-424.292	103	-7.984	26	-27.759	100	-226.899	34	-13.145	103
9	N131	max	184.464	32	2150.688	39	1783.661	39	194.775	39	111.017	40	13.229	27
10		min	-1221.1	40	-180.787	31	-86.165	31	-7.794	31	-9.005	32	-13.695	3
11	N135	max	92.59	20	210.966	21	1781.11	45	9.589	21	109.706	44	13.979	16
12		min	-1203.138	44	-2155.431	45	-77.529	21	-195.024	45	-2.571	21	-13.586	24
13	Totals:	max	6414.779	18	6167.34	6	9989.12	35						
14		min	-6414.779	26	-6167.337	30	2334.34	75						

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

	Member	Shape	Code Check	Loc[in]	LC	Shear Check	Loc[i..	Dir	LC	phi*Pnc...	phi*Pnt ...	phi*Mn ...	phi*Mn ...	Cb	Eqn
1	H1	L3X3X4	.656	84	10	.097	84	y	2	15745....	46656	1688.138	3268.422	1...	H2-1
2	H3	L3X3X4	.571	84	47	.071	84	z	48	15745....	46656	1688.138	2160.605	1	H2-1
3	H2	L3X3X4	.566	84	37	.072	84	z	38	15745....	46656	1688.138	2160.605	1	H2-1
4	MP2	PIPE_2.0	.552	24	10	.161	24		10	30625....	32130	1871.625	1871.625	2...	H1-1b
5	M1	C5.25"X4"...	.400	35.836	45	.097	24.2...	y	14	148845...	151875	12325....	24869....	1...	H1-1b
6	M46A	PIPE_2.0	.389	35	34	.205	134....		42	15637....	32130	1871.625	1871.625	1	H1-1b
7	M47	PIPE_2.0	.383	35	39	.198	33.25		47	15637....	32130	1871.625	1871.625	1	H1-1b
8	M3	C5.25"X4"...	.379	35.836	39	.105	24.2...	y	9	148845...	151875	12325....	24869....	1...	H1-1b
9	M48A	PIPE_2.0	.378	35	44	.199	127....		37	15637....	32130	1871.625	1871.625	1	H1-1b
10	MP3	PIPE_2.0	.371	24	10	.129	24		10	30625....	32130	1871.625	1871.625	4...	H1-1b
11	M2	C5.25"X4"...	.356	35.836	45	.104	24.2...	y	11	148845...	151875	12325....	24869....	3...	H1-1b
12	MP10	PIPE_2.0	.329	24	16	.144	24		16	30625....	32130	1871.625	1871.625	1...	H1-1b
13	MP6	PIPE_2.0	.326	24	5	.143	24		5	30625....	32130	1871.625	1871.625	3...	H1-1b
14	M7	L3X3X4	.262	42.431	39	.025	42.4...	z	42	35369....	46656	1688.138	3581.487	2...	H2-1
15	MP11	PIPE_2.0	.261	24	14	.121	24		15	30625....	32130	1871.625	1871.625	2...	H1-1b
16	M9	L3X3X4	.257	42.431	34	.024	42.4...	z	37	35369....	46656	1688.138	3639.07	2...	H2-1
17	MP7	PIPE_2.0	.256	24	4	.121	24		5	30625....	32130	1871.625	1871.625	2...	H1-1b
18	MP12	PIPE_2.0	.247	24	1...	.090	24		42	30625....	32130	1871.625	1871.625	2...	H1-1b
19	MP5	PIPE_2.0	.246	24	99	.091	24		43	30625....	32130	1871.625	1871.625	4...	H1-1b
20	MP8	PIPE_2.0	.242	24	2...	.088	60		42	30625....	32130	1871.625	1871.625	2...	H1-1b
21	MP9	PIPE_2.0	.241	24	2...	.089	24		38	30625....	32130	1871.625	1871.625	4...	H1-1b
22	MP1	PIPE_2.0	.239	60	1...	.091	24		49	28843....	32130	1871.625	1871.625	2...	H1-1b
23	MP4	PIPE_2.0	.237	24	2...	.090	24		36	30625....	32130	1871.625	1871.625	4...	H1-1b
24	M77	L2.5x2.5x3	.231	31.381	45	.010	61.4...	y	44	12395....	29192.4	872.574	1606.251	1...	H2-1
25	M74	L2.5x2.5x3	.231	31.381	39	.010	61.4...	z	40	12395....	29192.4	872.574	1606.251	1...	H2-1
26	M73A	L2.5x2.5x3	.230	31.381	34	.010	61.4...	y	34	12395....	29192.4	872.574	1606.251	1...	H2-1
27	M8	L3X3X4	.228	42.431	34	.019	42.4...	z	49	35369....	46656	1688.138	3522.62	2...	H2-1
28	M72A	L2.5x2.5x3	.228	31.381	34	.010	61.4...	z	34	12395....	29192.4	872.574	1606.251	1...	H2-1
29	M75	L2.5x2.5x3	.226	31.381	40	.010	61.4...	y	43	12395....	29192.4	872.574	1606.251	1...	H2-1
30	M76	L2.5x2.5x3	.225	31.381	44	.010	61.4...	y	14	12395....	29192.4	872.574	1606.251	1...	H2-1
31	M14	LL3x3x4x0	.099	48	17	.010	0	y	1...	77292....	93312	6480	4357.09	1...	H1-1b
32	M15	LL3x3x4x0	.080	0	5	.010	48	y	99	77292....	93312	6480	4357.09	1...	H1-1b
33	M13	LL3x3x4x0	.080	48	6	.010	0	y	2...	77292....	93312	6480	4357.09	1...	H1-1b
34	M57	PIPE_2.0	.025	15	42	.107	0		9	29810....	32130	1871.625	1871.625	1...	H1-1b
35	M55	PIPE_2.0	.025	15	47	.095	0		11	29810....	32130	1871.625	1871.625	1...	H1-1b
36	M56A	PIPE_2.0	.025	15	42	.086	30		6	29810....	32130	1871.625	1871.625	1...	H1-1b

Envelope AISI S100-16: LRFD Cold Formed Steel Code Checks

Member	Shape	Code Check	Loc[in]	LC	Shear Check	Loc[...	Dir	LC	phi*Pn...	phi*Tn[..	phi*Mn..	phi*Mn..	phi*...	phi*...	Cb	Eqn
No Data to Print ...																

APPENDIX D

ADDITIONAL CALCULATIONS

Trylon

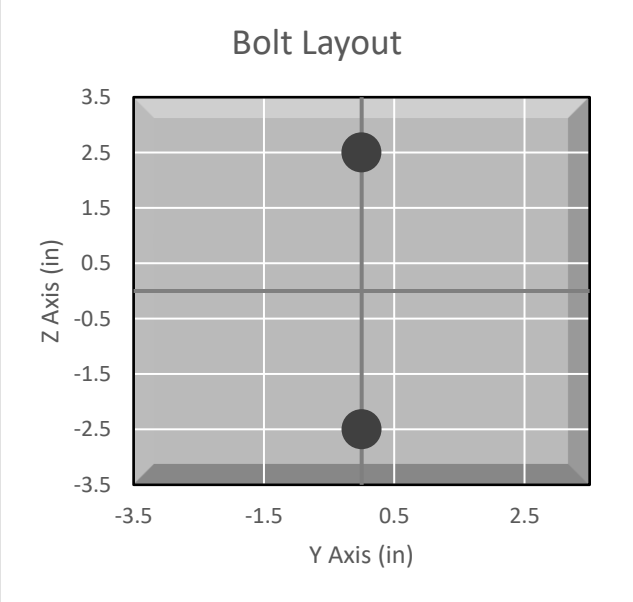
Analysis date: 1/31/2023

BOLT TOOL 1.5.2

Project Data	
Job Code:	223271
Carrier Site ID:	CTL05138
Carrier Site Name:	Windsor Central

Code	
Design Standard:	TIA-222-H
Slip Check:	No
Pretension Standard:	AISC

Bolt Properties		
Connection Type:	Bolt	
Diameter:	1	in
Grade:	A325	--
Yield Strength (Fy):	92	ksi
Ultimate Strength (Fu):	120	ksi
Number of Bolts:	2	--
Threads Included:	Yes	--
Double Shear:	No	--
Connection Pipe Size:	-	in



Connection Description
Mount to Tower Plate

Bolt Check		
Tensile Capacity (ϕT_n):	54517.0	lbs
Shear Capacity (ϕV_n):	35342.9	lbs
Tension Force (T_u):	11383.2	lbs
Shear Force (V_u):	332.3	lbs
Tension Usage:	20.9%	--
Shear Usage:	0.9%	--
Interaction:	20.9%	Pass
Controlling Member:	M38	--
Controlling LC:	42	--

1825 W. Walnut Hill Lane, Suite 120
Irving, Texas 75038

Trylon

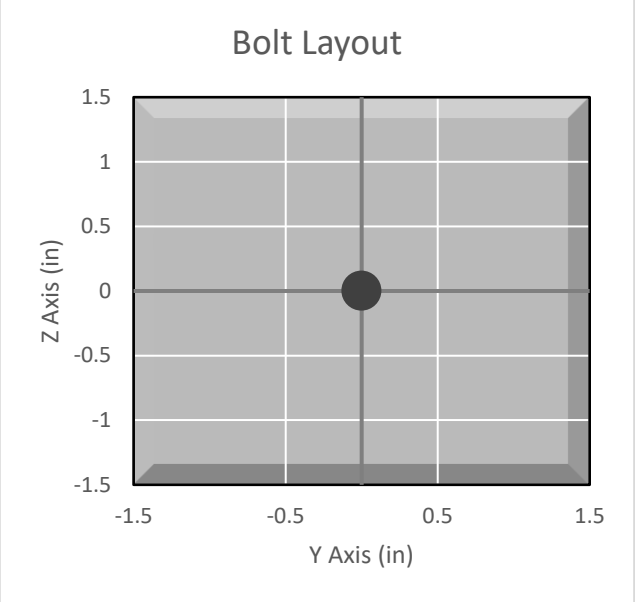
Analysis date: 1/31/2023

BOLT TOOL 1.5.2

Project Data	
Job Code:	223271
Carrier Site ID:	CTL05138
Carrier Site Name:	Windsor Central

Code	
Design Standard:	TIA-222-H
Slip Check:	No
Pretension Standard:	AISC

Bolt Properties		
Connection Type:	Bolt	
Diameter:	0.5	in
Grade:	A325	--
Yield Strength (Fy):	92	ksi
Ultimate Strength (Fu):	120	ksi
Number of Bolts:	1	--
Threads Included:	Yes	--
Double Shear:	Yes	--
Connection Pipe Size:	-	in



Connection Description
Stabilizer 1 Bolt

Bolt Check		
Tensile Capacity (ϕT_n):	12770.9	lbs
Shear Capacity (ϕV_n):	8835.7	lbs
Tension Force (T_u):	0.0	lbs
Shear Force (V_u):	1544.7	lbs
Tension Usage:	0.0%	--
Shear Usage:	17.5%	--
Interaction:	17.5%	Pass
Controlling Member:	M79	--
Controlling LC:	34	--

1825 W. Walnut Hill Lane, Suite 120
Irving, Texas 75038

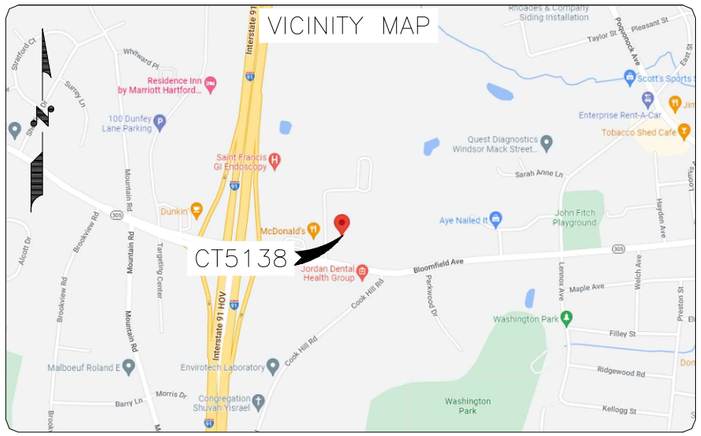
APPENDIX E

MOUNT MODIFICATION DESIGN DRAWINGS (MDD)

AT&T

UPGRADE:

MOUNT REINFORCEMENT



GENERAL NOTES

PRIOR TO ACCESSING/ ENTERING THE SITE, YOU MUST CONTACT THE CROWN NOC AT 800-788-7011 AND CROWN CM CHAD STEINHOFF- 214-287-3756, CHAD.STEINHOFF@CROWNCASTLE.COM

THE HEIGHT OF THE TOWER WILL NOT BE INCREASED, NOR AN EXPANSION OF THE GROUND/ LEASE AREA WHEN AND WHERE APPLICABLE

BUILDING CODES

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL AUTHORITIES HAVING JURISDICTION

1. 2022 CONNECTICUT STATE BUILDING CODE
2. UNIFORM BUILDING CODE
3. CITY/COUNTY ORDINANCES
4. TIA-222-H

IF YOU DIG IN ANY STATE DIAL 811
FOR THE LOCAL "ONE CALL CENTER"
IT'S THE LAW

THE UTILITIES SHOWN HEREIN ARE FOR THE CONTRACTORS CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER/SURVEYOR ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL THE UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO THE EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

SITE NAME:
WINDSORCENTRAL

SITE NUMBER:
CT5138

FA NUMBER:
10092835

CROWN CASTLE BU#:
855662

SITE ADDRESS:

340 BLOOMFIELD AVENUE,
WINDSOR, CT 06095

APPROVALS

AT&T CONSTRUCTION MANAGER	AT&T RF ENGINEER
LAND USE PLANNER	NETWORK OPERATION
PROPERTY OWNER	CONTRACTOR

DRIVING DIRECTION

FROM BRADLEY INTERNATIONAL AIRPORT:
HEAD NORTH TOWARD BRADLEY INTERNATIONAL AIRPORT (351 FT). SLIGHT LEFT ONTO BRADLEY INTERNATIONAL AIRPORT (0.4 MI). CONTINUE STRAIGHT (0.3 MI). KEEP RIGHT TO CONTINUE TOWARD BRADLEY INTERNATIONAL AIRPORT CON (0.1 MI). CONTINUE ONTO BRADLEY INTERNATIONAL AIRPORT CON (1.2 MI). CONTINUE ONTO CT-20 E/BRADLEY INTERNATIONAL AIRPORT CON (2.6 MI). USE THE RIGHT 2 LANES TO MERGE WITH I-91 S TOWARD HARTFORD (3.5 MI). TAKE EXIT 37 FOR CT-305/BLOOMFIELD AVE TOWARD WINDSOR CTR (0.3 MI). TURN LEFT ONTO CT-305 E/BLOOMFIELD AVE (0.2 MI). TURN LEFT ONTO WILLIAM ST (272 FT). TURN RIGHT (95 FT).

PROJECT INFORMATION

SCOPE OF WORK:	REINFORCE AS FOLLOWS: • INSTALL NEW SITE PRO 1, PRK-SFS-L STABILIZER KIT CONNECTED TO THE HANDRAIL. THE COLLAR STABILIZER MUST BE INSTALLED AT APPROX. 60" BELOW THE PLATFORM CONNECTION. FIELD CUT THE STABILIZER MEMBERS IF IT'S NEEDED.
JURISDICTION:	HARTFORD COUNTY
SITE NAME:	WINDSORCENTRAL
SITE ADDRESS:	340 BLOOMFIELD AVENUE, WINDSOR, CT 06095
LATITUDE:	41° 51' 09.34"
LONGITUDE:	-72° 39' 37.79"
TOWER TYPE:	MONOPOLE
OVERALL TOWER HEIGHT:	148'
ELEVATION OF WORK ON TOWER:	148'

SHEET INDEX

SHEET #	DESCRIPTION	REVISION #
T-1.	TITLE SHEET	0
S-1	MOUNT REINFORCEMENT	0
S-2	MOUNT REINFORCEMENT DETAIL	0

CROWN CASTLE
1220 AUGUSTA DRIVE SUIT 500
HOUSTON, TX 77057

AT&T

Trylon
1825 W. WALNUT HILL LANE, SUITE 120
IRVING, TEXAS 75038
1-855-669-5421

DRAWING SCALES ARE INTENDED FOR 24"x36" SIZE PRINTED MEDIA ONLY. ALL OTHER PRINTED SIZES ARE DEEMED "NOT TO SCALE".

SUBMITTALS

REV	DATE	DESCRIPTION	BY
0	05/25/22	FOR REVIEW	RC
1	01/31/23	REVISED	RC

SITE INFORMATION

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WINDSORCENTRAL

SITE NUMBER:
CT5138

FA NUMBER:
10092835

SITE ADDRESS:
340 BLOOMFIELD AVENUE,
WINDSOR, CT 06095

SHEET DESCRIPTION

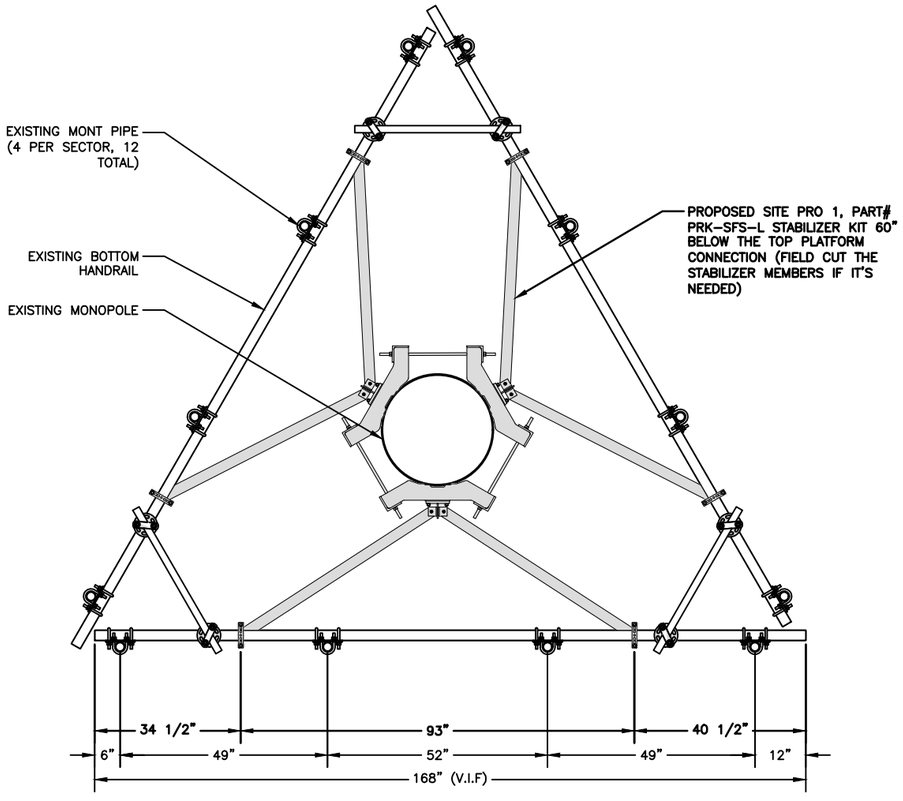
TITLE SHEET

SHEET No.

T-1

INSTALLATION NOTES:

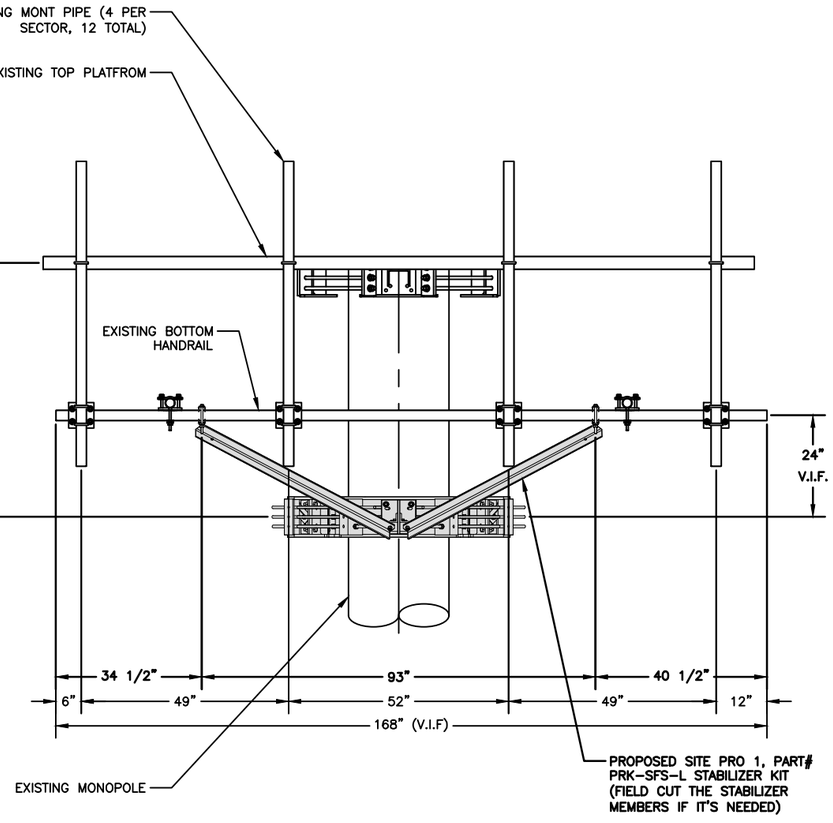
- **INSTALL NEW SITE PRO 1, PRK–SFS–L STABILIZER KIT CONNECTED TO THE HANDRAIL. THE COLLAR STABILIZER MUST BE INSTALLED AT APPROX. 60" BELOW THE PLATFORM CONNECTION. FIELD CUT THE STABILIZER MEMBERS IF IT'S NEEDED.**



EQUIPMENT NOT SHOWN FOR CLARITY.

2 / S–1 PROPOSED BOTTOM PLAN VIEW (ALL SECTORS)
SCALE: 3/4" = 1'–0"
0 0'–8" 1'–4" 2'–8" 4'–0"

BILL OF MATERIALS		
QTY.	KIT NO./PART NO.	DESCRIPTION
1 TOTAL	PRK–SFS–L	STABILIZER KIT



EQUIPMENT NOT SHOWN FOR CLARITY.

2 / S–1 PROPOSED ELEVATION VIEW (ALL SECTORS)
SCALE: 3/4" = 1'–0"
0 0'–8" 1'–4" 2'–8" 4'–0"

GENERAL NOTES:

1. ALL STEEL ANGLE TO BE ASTM A36 (GR 36) OR BETTER.
2. ALL STEEL PLATE TO BE ASTM A36 (GR 36) OR BETTER.
3. ALL PIPES TO BE ASTM A53 (GR 35) OR BETTER.
4. HOT DIP GALVANIZE LEVEL 3 PARTS.
5. APPLY TWO COATS OF GALVICON TO ALL FIELD CUT OR DRILL EDGES.
6. ALL BOLTS TO MAINTAIN 1" EDGE DISTANCE.

CROWN CASTLE
1220 AUGUSTA DRIVE SUIT 500
HOUSTON, TX 77057

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1–855–669–5421

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SUBMITTALS

REV	DATE	DESCRIPTION	BY
0	05/25/22	FOR REVIEW	RC
1	01/31/23	REVISED	RC

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WINDSOR, CT 06095

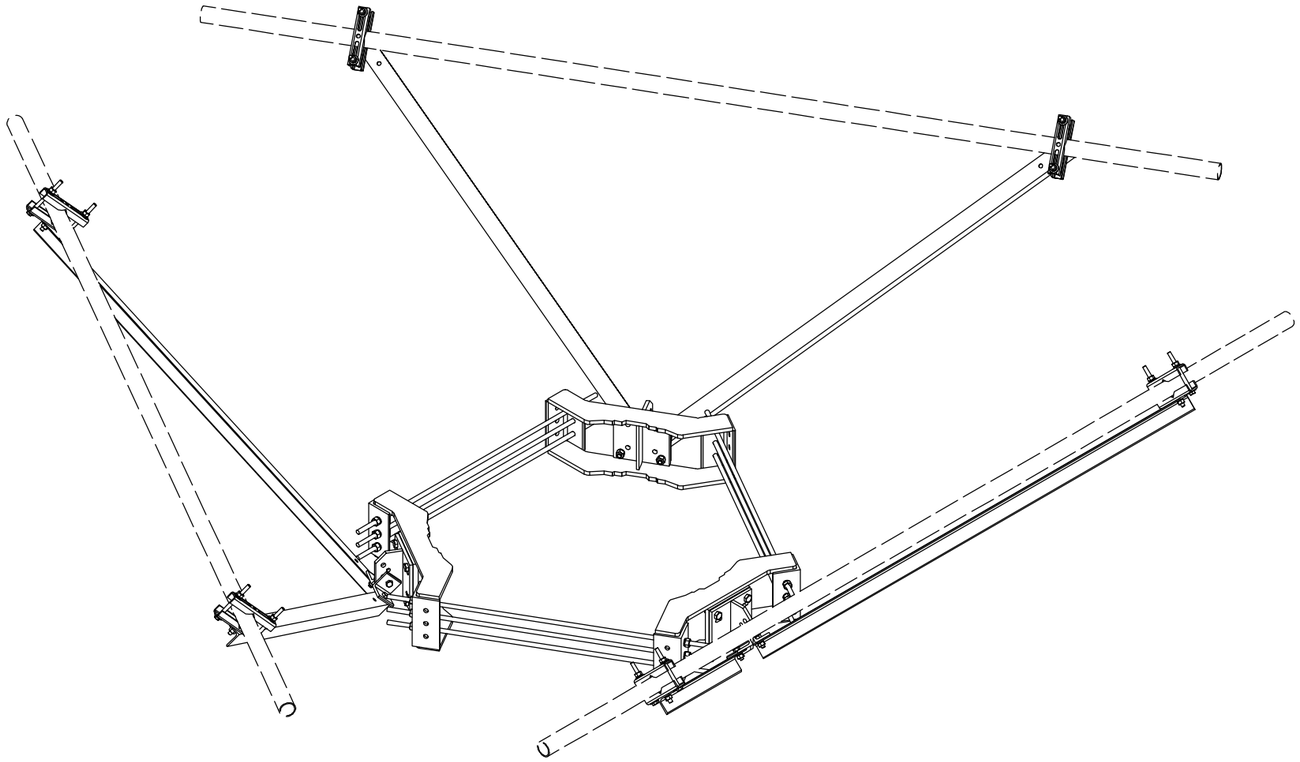
SHEET DESCRIPTION

MOUNT REINFORCEMENT

SHEET No.

S–1

MOUNT KIT	
PART NUMBER	DESCRIPTION
PRK-SFS-L	REINFORCEMENT ASSEMBLY KIT



CROWN CASTLE

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SHEET DESCRIPTION

MOUNT REINFORCEMENT DETAIL

SHEET No.

S-2