



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

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

E-Mail: siting.council@ct.gov

www.ct.gov/csc

VIA ELECTRONIC MAIL

November 25, 2019

Kristina Cottone
Smartlink, LLC
85 Rangeway Road, Building 3, Suite 102
North Billerica, MA 01862

RE: **EM-AT&T-123-191025** - AT&T Mobility, LLC notice of intent to modify an existing telecommunications facility located at 165 Huntington Road, Scotland, Connecticut.

Dear Ms. Cottone:

The Connecticut Siting Council (Council) is in receipt of your correspondence of November 20, 2019 submitted in response to the Council's November 1, 2019 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 A. Bachman
Executive Director

MAB/IN/emr



Robidoux, Evan

From: Kristina Cottone <kristina.cottone@smartlinkllc.com>
Sent: Wednesday, November 20, 2019 1:44 PM
To: Robidoux, Evan
Cc: CSC-DL Siting Council
Subject: RE: Council Incomplete Letter for EM-AT&T-123-191025 (165 Huntington Road, Scotland, Connecticut)
Attachments: CTL01242_ No CSC Record.pdf; 10050915_DE113_191113_CTL01242.pdf; 10050915_DE125_191002_CTL01242.pdf; 10050915_DE125_191025_CTL01242.pdf; 10050915_MOD DESIGN_191002_CTL01242.pdf; 10050915_MOD DESIGN_191025_CTL01242.pdf

Hello Evan,

Please see attached requested documents to complete this CSC filing. Please let me know if you need anything else for this project.

Thank you,



Kristina Cottone | Real Estate Specialist
Smartlink

85 Rangeway Road – Building 3 Suite 102
North Billerica MA, 01862
(m) 978.551.8627
Kristina.cottone@Smartlinkllc.com

contents (including any attachments) by persons other than the intended recipient(s) is strictly prohibited. If you have received this message in error, please notify us immediately by reply email that we may correct our internal records. Please then delete the original message (including any attachments) in its entirety. Thank you.

From: Robidoux, Evan <Evan.Robidoux@ct.gov>
Sent: Tuesday, November 12, 2019 2:27 PM
To: Kristina Cottone <kristina.cottone@smartlinkllc.com>
Cc: CSC-DL Siting Council <Siting.Council@ct.gov>
Subject: RE: Council Incomplete Letter for EM-AT&T-123-191025 (165 Huntington Road, Scotland, Connecticut)

Warning: This message was sent from outside the company and could contain attachments. Please do not open unless you recognize the source of this email and know the content is safe.

Good afternoon Kristina,

I just wanted to clarify which exempt mod request these items are in response to. The subject line referred to the Huntington Road, Scotland site but the response to incomplete references the Ashpohtag Road, Norfolk site.

The incomplete letter you received today regarding Ashpohtag Road, Norfolk was sent in error. Please disregard it. We are currently reviewing your response for completion.

Sincerely,

Evan Robidoux

Clerk Typist
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

From: Kristina Cottone [mailto:kristina.cottone@smartlinkllc.com]
Sent: Tuesday, November 12, 2019 10:48 AM
To: Robidoux, Evan <Evan.Robidoux@ct.gov>
Cc: CSC-DL Siting Council <Siting.Council@ct.gov>
Subject: RE: Council Incomplete Letter for EM-AT&T-123-191025 (165 Huntington Road, Scotland, Connecticut)

Good morning Evan,

Here are the requested documents needed to complete this CSC filing. Please let me know if anything else is needed to complete this request.

Thank you,



Kristina Cottone | Real Estate Specialist
Smartlink

85 Rangeway Road – Building 3 Suite 102
North Billerica MA, 01862
(m) 978.551.8627
Kristina.cottone@Smartlinkllc.com
smartlinkllc.com

Like us on Facebook
Follow us on Twitter
Connect with us on LinkedIn

Proud Sponsor of the Chesapeake Bayhawks, 5-Time Major League Lacrosse Champions! www.thebayhawks.com

This electronic mail (including any attachments) may contain information that is privileged, confidential, and/or otherwise protected from disclosure to anyone other than its intended recipient(s). Any dissemination or use of this electronic email or its contents (including any attachments) by persons other than the intended recipient(s) is strictly prohibited. If you have received this message in error, please notify us immediately by reply email that we may correct our internal records. Please then delete the original message (including any attachments) in its entirety. Thank you.

From: Robidoux, Evan <Evan.Robidoux@ct.gov>
Sent: Friday, November 1, 2019 3:18 PM
To: Kristina Cottone <kristina.cottone@smartlinkllc.com>
Cc: CSC-DL Siting Council <Siting.Council@ct.gov>
Subject: Council Incomplete Letter for EM-AT&T-123-191025 (165 Huntington Road, Scotland, Connecticut)

Warning: This message was sent from outside the company and could contain attachments. Please do not open unless you recognize the source of this email and know the content is safe.

Please see the attached correspondence.

Evan Robidoux
Clerk Typist

Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051



11/20/19

Memo: No Initial Zoning Decision Found

Upon consulting with Liz Burdick, the Zoning Enforcement Officer / Planner for the Town of Scotland, it was determined that no initial zoning decision for this tower could be found. Her phone number is 860-423-9634.

Kristina Cottone
Real Estate Specialist | Smartlink, LLC
85 Rangeway Road, Building 3, Suite 102
North Billerica, MA 01862



SBA Communications Corporation
 8051 Congress Avenue
 Boca Raton, FL 33487-1307

T + 561.995.7670
 F + 561.995.7626

sbsite.com

Structural Analysis Report

Client: AT&T

Client Site ID / Name: CTL01242 / Scotland
 AppID : 122605, v3

SBA Site Name: Scotland
 SBA Site ID: CT00990-S

240' Self Supporting Tower

165 Huntington Road
 Scotland, CT 06264-2202
 Lat: 41°41'45.28", Long: -72°5'49.45"

Project number: CT00990-ATT-111119

Analysis Results

Tower	67.5%	Pass
Foundation	55.0%	Pass

Client Mount modification / replacement	
Net change in tower due to mount Modification/ replacement	4.0%

Prepared by:

Juan M. Valega
 Structural Engineer I
 561-226-9337
 jvalega@sbsite.com

Reviewed by:

Nitesh Ahuja, P.E.
 Director of Engineering
 561-226-9452
 nahuja@sbsite.com



November 12, 2019

Prepared in compliance with:

- ANSI/TIA-222-G Structural Standard for Antennas and Antenna Supporting Structures
- 2015 International Building Code (IBC), 2018 CSBC

Table of Contents

Executive Summary 3

Assumptions..... 3

Limitations 4

Installation Requirements..... 4

Appurtenance Loading 5

 Existing Loading: 5

 Proposed Loading: 5

Coax Layout 6

Results 7

 Tower 7

 Foundation System..... 7

Appendix 8

 Tower Geometry.....

 tnxTower Report.....

 Foundation Analysis Report.....



Executive Summary

The enclosed structural analysis was performed for AT&T to verify the structural capacity of the 240' Self Supporting Tower located at 165 Huntington Road, Scotland, CT 06264-2202 to support the proposed antenna, transmission lines and mounting equipment in addition to those currently installed. The following documents were used to determine the geotechnical characteristics, foundation data, tower geometry and member sizes/type:

Table 1 List of Documents Used

Item	Document
Tower design/drawings	Pirot , Job #: A-115649 , Dated: 5/5/1999
Foundation drawings	Pirot , Job #: A-115649 , Dated: 5/5/1999
Geotechnical report	JGI Geotech, Inc. , Project # 99222G , Dated: 4/28/1999
Latest SA	SBAE, Project # CT00990-ATT-092419, Dated: 9/24/2019

The analysis was performed in accordance with the following requirements:

Table 2 Code Related Data

Jurisdiction (State/County/City)	Connecticut / Windham / Scotland
Governing Codes	ANSI/TIA-222-G , 2015 IBC, 2018 CSBC
Basic Wind Speed	101 mph (Ultimate Wind Speed: 130 mph 3-sec gust)
Wind Speed with Ice	50 mph
Ice Thickness	1 in
Structural Class	II
Exposure Category	C
Topographic Category	1
Crest Height	0 ft

"This structural analysis is based upon the tower being classified as a class II; however, if a different classification is required subsequent to the date hereof, the tower classification will be changed to meet such requirement and a new structural analysis will be run."

The SBA Communications Corporation verifies that the 240' Self Supporting Tower located at 165 Huntington Road, Scotland, CT 06264-2202 is **sufficient** to support the proposed loadings for AT&T in addition to those currently existing based on standards set forth in governing building codes and dependent on AT&T satisfying all Installation Requirements provided herein. The analysis performed assumes the site information provided is accurate and the tower/foundation has been properly designed, manufactured, installed and maintained. Additional details regarding the assumptions and limitations are provided within the Assumptions and Limitations section of this report.

Assumptions

This analysis was completed based on the following assumptions:

- Tower has been properly maintained
- Tower erection was in accordance to manufacturer drawings
- Leg flanges have been properly designed by manufacturer to not be a limiting reaction
- Welds have been properly designed and installed by manufacturer to not be a limiting reaction
- Foundation was constructed in accordance to manufacturer drawings
- Foundation does not have structural damage
- Bolts have been properly tightened according to manufacturer specifications
- Appurtenance, mount and transmission line sizes and weights are best estimates using the tnxTower database and manufacturer information

Limitations

The computer generated analysis performed by the tnxTower software is limited to theoretical capacities of the towers structural members and does not account for any missing or damaged members or connections. The tower and foundation are assumed to have been properly designed, fabricated, installed and maintained, barring any conflicting findings from the most recent inspection. All leg flanges, welds and bolts are assumed to be designed by the manufacturer in such a way that these are not limiting reactions.

SBA Communications Corporation has used its due diligence to verify the information provided to perform this analysis. It is unreasonable to perform a more detailed inspection of a tower and its components. This report is not a condition assessment of the tower or foundation.

Installation Requirements

This analysis was performed under the assumption that AT&T will place the proposed equipment and feed lines at a height of 238' and in accordance with the coax layout shown. RRUs are to be installed on existing mounts behind tenant's antennas unless otherwise noted. No equipment is to be installed directly in the climbing path. All equipment is to be installed per mount manufacturer specifications. In case site conditions do not allow for the required installation parameters to be met AT&T must notify SBA Communications Corporation engineers for approval of an alternative placement.

Appurtenance Loading

Existing Loading:

The existing antenna and feed line information was obtained from the Site Summary and/or previous Structural Analysis. SBA Communications Corporation uses due diligence to ensure reasonably accurate information has been recorded. The existing loadings are shown in Table 3.

Table 3 Existing Appurtenances

Mount Elev. (ft)	CL Elev. (ft)	Carrier	Type	Qty	Manufacturer	Model	Qty	Feed Line Size	Mount Type Qty
238	238	AT&T	Panel	6	Powerwave	7770	12 2 1	1-5/8" 3/4" DC 1/2" Fiber	(1) Low Profile Platform
			Panel	3	KMW	AM-X-CD-17-65-00T-RET			
			TMA	6	Powerwave	LGP21401			
			Diplexer	6	Powerwave	LGP21903			
			RRU	6	Ericsson	RRUS 11			
			Combiner	3	CSS	Dual Band Combiner			
			Other	1	Raycap	DC6-48-60-18-8F			
228	228	Verizon	Panel	6	Antel	LPA-80080/6CF	18	1-5/8"	(3) T-Frames
			Panel	3	Antel	BXA-171085-12BF			
			Panel	3	Antel	BXA-70063/6CF			

Proposed Loading:

Information pertaining to proposed antennas and transmission lines were based upon the APP ID 122605, v3 from AT&T and is listed in Table 4.

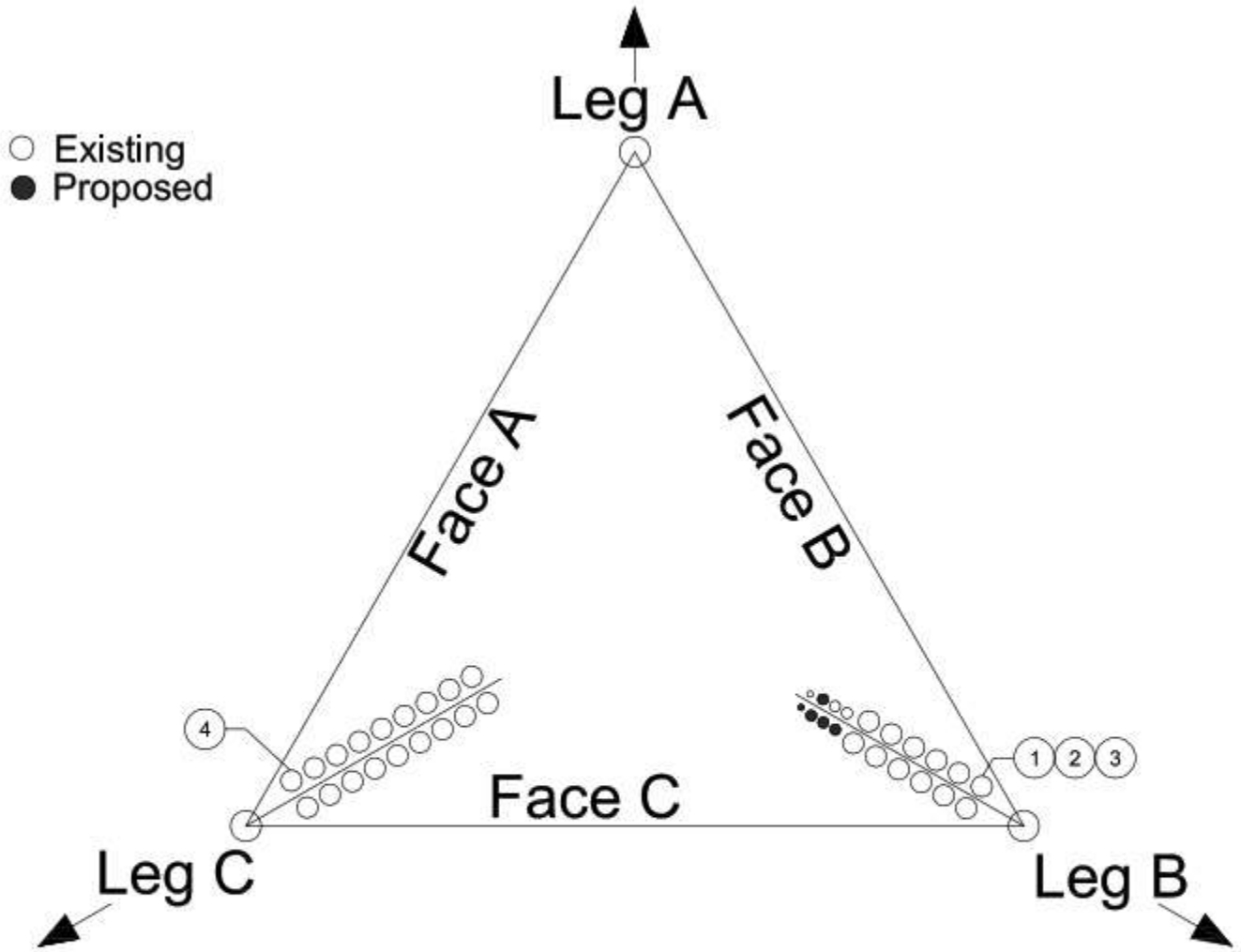
Table 4 Proposed Appurtenances

Mount Elev. (ft)	CL Elev. (ft)	Carrier	Type	Qty	Manufacturer	Model	Qty	Feed Line Size	Mount Type Qty
238	238	AT&T	Panel	3	Powerwave	7770	12 6 2	1-5/8" 3/4" DC 1/2" Fiber	1) Low Profile Platform w/ [(3) 16.5' Pipe & Site Pro 1 X-AHCP, SCX1-K, SCX4-K, SCX2-K]
			Panel	6	CCI	DMP65R-BU8DA			
			TMA	6	Powerwave	LGP21401			
			RRU	3	Ericsson	RRUS 4478 B14			
			RRU	3	Ericsson	RRUS 8843 B2 B66A			
			RRU	3	Ericsson	RRUS 4449 B5/B12			
			Other	3	Raycap	DC6-48-60-18-8F			

Note: AT&T loading includes FirstNET equipment



Coax Layout



CT00990-S					
#	CARRIER	SIZE	QTY.	ELEVATION	NOTES
1	AT&T	1-5/8"	12	238'	
2	AT&T	3/4"	6	238'	(4) Proposed DC Power
3	AT&T	3/4"	2	238'	(1) Proposed Fiber
4	Verizon	1-5/8"	18	228'	

Results

Tower

The results of the structural analysis performed with the tnxTower software are shown below. Table 5 shows the most critical member elements and the percentage of the force in the member with respect to the member capacity. Capacities of up to 105% are considered acceptable. The foundation reactions obtained from tnxTower are shown in Table 6 and Table 7. These reactions are used for the analysis of the foundation systems. Additional information for the tower analysis is provided within the Appendix.

Table 5 Tower Analysis Summary

Structural Component	% capacity	Analysis Result
Leg	65.1	Pass
Diagonal	67.5	Pass
Top girt	20.2	Pass
Anchor Bolt	25.4	Pass
Bolt	65.3	Pass
Tower	67.5	Pass

Table 6 Tower Base Reactions

Axial (kips)	90
Shear (kips)	71
Moment (kip-ft)	9332

Table 7 Tower leg Reactions

Uplift (kips)	380
Compression (kips)	444
Shear (kips)	48

Foundation System

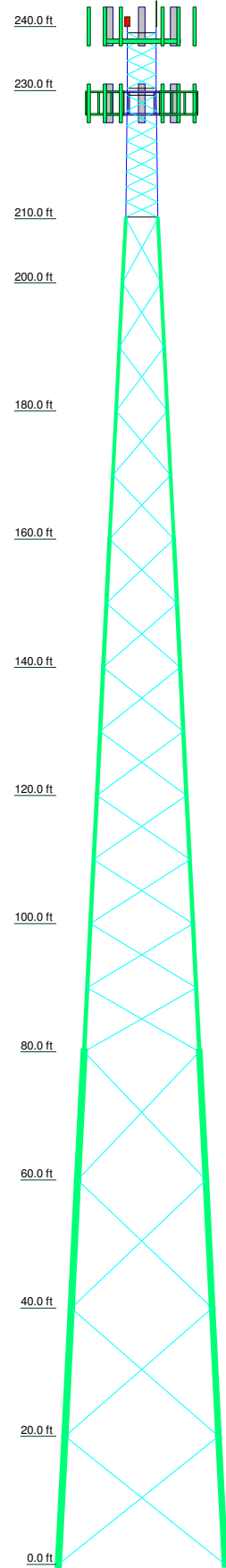
The results of the foundation based on the geotechnical report and foundation mapping or design drawings are shown below in Table 8. Additional information for the foundation analysis is provided within the Appendix.

Table 8 Foundation Analysis Summary

Structural Component	% capacity	Analysis Result
Foundation	55.0	Pass

Appendix

Section	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12	T13	T14	T15	T16	T17	T18	T19	T20	T21	T22	T23	T24	T25	T26	T27	T28	T29	T30	T31	
Legs		SR 2								#18 - 2.50" (Pirod 112743)	#18 - 2.50" (Pirod 112743)	F																			SR 1 3/4	
Leg Grade																															SR 1 3/4	
Diagonals																															SR 1	
Diagonal Grade																															A572-50	
Top Girts																															SR 1	
Bottom Girts																															SR 1	
Face Width (ft)																															4.5	
# Panels @ (ft)																														8 @ 2.375	5 @ 2.16667	
Weight (K)																															1.5	0.5



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
Flash Beacon Lighting	240	4449 B5/B12 (14.96"x13.19"x10.43")	238
Lightning Rod	240	4449 B5/B12 (14.96"x13.19"x10.43")	238
(1) Low Profile Platform (MOD) Hand Rail Kit	238	DC6-48-60-18-8F (24"x11"x11")	238
2" sch 40 x 96" pipe	238	DC6-48-60-18-8F (24"x11"x11")	238
2" sch 40 x 96" pipe	238	(1) T-Frame	228
2" sch 40 x 96" pipe	238	(1) T-Frame	228
7770 (55"x11"x5") w/mount pipe	238	(1) T-Frame	228
7770 (55"x11"x5") w/mount pipe	238	(2) LPA-80080/6CF (70.9"x5.5"x13.2") w/mount pipe	228
7770 (55"x11"x5") w/mount pipe	238	(2) LPA-80080/6CF (70.9"x5.5"x13.2") w/mount pipe	228
(2) DMP65R-BU8DA (96"x20.7"x7.7") w/mount pipe	238	(2) LPA-80080/6CF (70.9"x5.5"x13.2") w/mount pipe	228
(2) DMP65R-BU8DA (96"x20.7"x7.7") w/mount pipe	238	(2) LPA-80080/6CF (70.9"x5.5"x13.2") w/mount pipe	228
(2) DMP65R-BU8DA (96"x20.7"x7.7") w/mount pipe	238	BXA-171085-12BF (71.7"x11.2"x5.2") w/mount pipe	228
(2) LGP21401 (14"x9"x2.7")	238	BXA-171085-12BF (71.7"x11.2"x5.2") w/mount pipe	228
(2) LGP21401 (14"x9"x2.7")	238	BXA-171085-12BF (71.7"x11.2"x5.2") w/mount pipe	228
(2) LGP21401 (14"x9"x2.7")	238	BXA-171085-12BF (71.7"x11.2"x5.2") w/mount pipe	228
4478 B14 (18.1"x13.4"x8.26")	238	BXA-70063/6CF (71"x11.3"x6") w/mount pipe	228
4478 B14 (18.1"x13.4"x8.26")	238	BXA-70063/6CF (71"x11.3"x6") w/mount pipe	228
4478 B14 (18.1"x13.4"x8.26")	238	BXA-70063/6CF (71"x11.3"x6") w/mount pipe	228
8843 B2 B66A (14.9"x13.2"x10.9")	238	BXA-70063/6CF (71"x11.3"x6") w/mount pipe	228
8843 B2 B66A (14.9"x13.2"x10.9")	238	BXA-70063/6CF (71"x11.3"x6") w/mount pipe	228
8843 B2 B66A (14.9"x13.2"x10.9")	238	BXA-70063/6CF (71"x11.3"x6") w/mount pipe	228
4449 B5/B12 (14.96"x13.19"x10.43")	238		

SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	#12 - 1.25" - 1.00" conn. (Pirod 105244)	E	#12 - 2.00" - 1.25" conn. (Pirod 105219)
B	#12 - 1.50" - 1.00" conn. (Pirod 105217)	F	#18 - 2.75" (Pirod 112744)
C	#12 - 1.75" - 1.00" conn. (Pirod 105218)	G	#18 - 2.75" (Pirod 112739) BASE ONLY
D	#12 - 2.00" - 1.25" conn. (Pirod 105219)		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A36	36 ksi	58 ksi

TOWER DESIGN NOTES

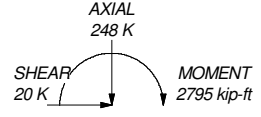
1. Tower is located in Windham County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-G Standard.
3. Tower designed for a 101 mph basic wind in accordance with the TIA-222-G Standard.
4. Tower is also designed for a 50 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Structure Class II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 67.5%



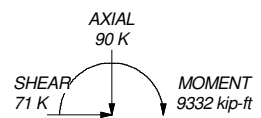
ALL REACTIONS ARE FACTORED

MAX. CORNER REACTIONS AT BASE:
DOWN: 444 K
SHEAR: 48 K

UPLIFT: -380 K
SHEAR: 42 K



TORQUE 21 kip-ft
50 mph WIND - 1.0000 in ICE



TORQUE 74 kip-ft
REACTIONS - 101 mph WIND

SBA Communications Corporation 8051 Congress Avenue Boca Raton, FL 33487-1307 Phone: (555) 226-9337 FAX: (561) 226-0892	Job: CT00990-S, Scotland Project: CT00990-ATT-111119
	Client: AT&T (App. # 122605, v3) Drawn by: Juan M. Valega App'd: Code: TIA-222-G Date: 11/12/19 Scale: NTS Path:

<p>tnxTower</p> <p>SBA Communications Corporation 8051 Congress Avenue Boca Raton, FL 33487-1307 Phone: (555) 226-9337 FAX: (561) 226-0892</p>	Job	CT00990-S, Scotland	Page	1 of 31
	Project	CT00990-ATT-111119	Date	15:28:12 11/12/19
	Client	AT&T (App. # 122605, v3)	Designed by	Juan M. Valega

Tower Input Data

The main tower is a 3x free standing tower with an overall height of 240.00 ft above the ground line.

The base of the tower is set at an elevation of 0.00 ft above the ground line.

The face width of the tower is 4.50 ft at the top and 26.00 ft at the base.

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

The following design criteria apply:

Tower is located in Windham County, Connecticut.

ASCE 7-10 Wind Data is used (wind speeds converted to nominal values).

Basic wind speed of 101 mph.

Structure Class II.

Exposure Category C.

Topographic Category 1.

Crest Height 0.00 ft.

Nominal ice thickness of 1.0000 in.

Ice thickness is considered to increase with height.

Ice density of 56 pcf.

A wind speed of 50 mph is used in combination with ice.

Temperature drop of 50 °F.

Deflections calculated using a wind speed of 60 mph.

Pressures are calculated at each section.

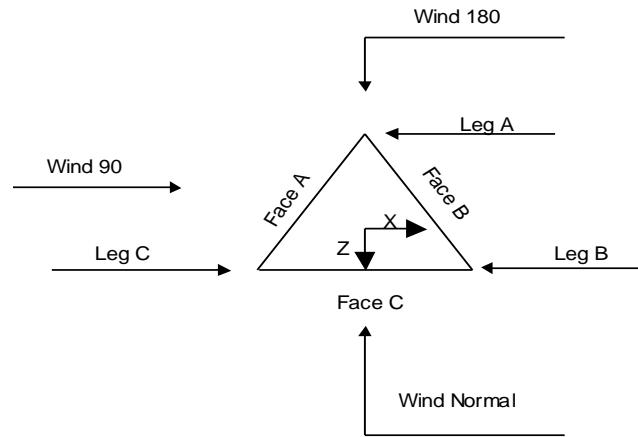
Stress ratio used in tower member design is 1.

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

Options

Consider Moments - Legs	Distribute Leg Loads As Uniform	Use ASCE 10 X-Brace Ly Rules
Consider Moments - Horizontals	Assume Legs Pinned	√ Calculate Redundant Bracing Forces
Consider Moments - Diagonals	√ Assume Rigid Index Plate	Ignore Redundant Members in FEA
Use Moment Magnification	√ Use Clear Spans For Wind Area	√ SR Leg Bolts Resist Compression
√ Use Code Stress Ratios	√ Use Clear Spans For KL/r	All Leg Panels Have Same Allowable
√ Use Code Safety Factors - Guys	Retension Guys To Initial Tension	Offset Girt At Foundation
Escalate Ice	√ Bypass Mast Stability Checks	√ Consider Feed Line Torque
Always Use Max Kz	√ Use Azimuth Dish Coefficients	√ Include Angle Block Shear Check
Use Special Wind Profile	√ Project Wind Area of Appurt.	Use TIA-222-G Bracing Resist. Exemption
√ Include Bolts In Member Capacity	Autocalc Torque Arm Areas	Use TIA-222-G Tension Splice Exemption
Leg Bolts Are At Top Of Section	Add IBC .6D+W Combination	Poles
√ Secondary Horizontal Braces Leg	√ Sort Capacity Reports By Component	Include Shear-Torsion Interaction
Use Diamond Inner Bracing (4 Sided)	Triangulate Diamond Inner Bracing	Always Use Sub-Critical Flow
SR Members Have Cut Ends	Treat Feed Line Bundles As Cylinder	Use Top Mounted Sockets
SR Members Are Concentric	Ignore KL/ry For 60 Deg. Angle Legs	Pole Without Linear Attachments
		Pole With Shroud Or No Appurtenances
		Outside and Inside Corner Radii Are
		Known

<p>tnxTower</p> <p>SBA Communications Corporation 8051 Congress Avenue Boca Raton, FL 33487-1307 Phone: (555) 226-9337 FAX: (561) 226-0892</p>	Job CT00990-S, Scotland	Page 2 of 31
	Project CT00990-ATT-111119	Date 15:28:12 11/12/19
	Client AT&T (App. # 122605, v3)	Designed by Juan M. Valega



Triangular Tower

Tower Section Geometry

Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length
	<i>ft</i>			<i>ft</i>		<i>ft</i>
T1	240.00-230.00		#54 1.75"Lx0.750"D (111574)	4.50	1	10.00
T2	230.00-210.00		#60/54	4.50	1	20.00
			2.00"Lx1.000"DTrans(114529)			
T3	210.00-200.00		U- 6,12Z,1.00"D x 10'	5.00	1	10.00
T4	200.00-180.00		U- 8,12Z,1.00"D x 20'	6.00	1	20.00
T5	180.00-160.00		U-10,12Z,1.00"D x 20'	8.00	1	20.00
T6	160.00-140.00		U-12,12Z,1.25"D x 20'	10.00	1	20.00
T7	140.00-120.00		U-14,12Z,1.25"D x 20'	12.00	1	20.00
T8	120.00-100.00		U-16,12Z,1.25"D x 20'	14.00	1	20.00
T9	100.00-80.00		U-18,12Z,1.25"D x 20'	16.00	1	20.00
T10	80.00-60.00		U-20,18K,1.25"L,1.00"D x 20'	18.00	1	20.00
T11	60.00-40.00		U-22,18K,1.25"L,1.00"D x 20'	20.00	1	20.00
T12	40.00-20.00		U-24,18K,1.25"L,1.00"D x 20'	22.00	1	20.00
T13	20.00-0.00		U-26,18K,1.25"L,1.00"D x 20'	24.00	1	20.00

Tower Section Geometry (cont'd)

Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset	Bottom Girt Offset
	<i>ft</i>	<i>ft</i>				<i>in</i>	<i>in</i>
T1	240.00-230.00	2.17	X Brace	No	No	12.0000	4.0000

<p style="text-align: center;">tnxTower</p> <p style="text-align: center;">SBA Communications Corporation 8051 Congress Avenue Boca Raton, FL 33487-1307 Phone: (555) 226-9337 FAX: (561) 226-0892</p>	Job	CT00990-S, Scotland	Page	3 of 31
	Project	CT00990-ATT-111119	Date	15:28:12 11/12/19
	Client	AT&T (App. # 122605, v3)	Designed by	Juan M. Valega

Tower Section	Tower Elevation ft	Diagonal Spacing ft	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset in	Bottom Girt Offset in
T2	230.00-210.00	2.38	X Brace	No	No	9.5000	2.5000
T3	210.00-200.00	10.00	X Brace	No	No	0.0000	0.0000
T4	200.00-180.00	10.00	X Brace	No	No	0.0000	0.0000
T5	180.00-160.00	10.00	X Brace	No	No	0.0000	0.0000
T6	160.00-140.00	10.00	X Brace	No	No	0.0000	0.0000
T7	140.00-120.00	10.00	X Brace	No	No	0.0000	0.0000
T8	120.00-100.00	10.00	X Brace	No	No	0.0000	0.0000
T9	100.00-80.00	10.00	X Brace	No	No	0.0000	0.0000
T10	80.00-60.00	20.00	X Brace	No	No	0.0000	0.0000
T11	60.00-40.00	20.00	X Brace	No	No	0.0000	0.0000
T12	40.00-20.00	20.00	X Brace	No	No	0.0000	0.0000
T13	20.00-0.00	20.00	X Brace	No	No	0.0000	0.0000

Tower Section Geometry (cont'd)

Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T1 240.00-230.00	Solid Round	1 3/4	A572-50 (50 ksi)	Solid Round	3/4	A572-50 (50 ksi)
T2 230.00-210.00	Solid Round	2	A572-50 (50 ksi)	Solid Round	1	A572-50 (50 ksi)
T3 210.00-200.00	Truss Leg	#12 - 1.25" - 1.00" conn. (Pirod 105244)	A572-50 (50 ksi)	Equal Angle	L3x3x3/16	A36 (36 ksi)
T4 200.00-180.00	Truss Leg	#12 - 1.50" - 1.00" conn. (Pirod 105217)	A572-50 (50 ksi)	Equal Angle	L3x3x3/16	A36 (36 ksi)
T5 180.00-160.00	Truss Leg	#12 - 1.75" - 1.00" conn. (Pirod 105218)	A572-50 (50 ksi)	Equal Angle	L3x3x3/16	A36 (36 ksi)
T6 160.00-140.00	Truss Leg	#12 - 2.00" - 1.25" conn. (Pirod 105219)	A572-50 (50 ksi)	Equal Angle	L3x3x5/16	A36 (36 ksi)
T7 140.00-120.00	Truss Leg	#12 - 2.00" - 1.25" conn. (Pirod 105219)	A572-50 (50 ksi)	Equal Angle	L3x3x5/16	A36 (36 ksi)
T8 120.00-100.00	Truss Leg	#12 - 2.25" - 1.25" conn. (Pirod 105220)	A572-50 (50 ksi)	Equal Angle	L3 1/2x3 1/2x5/16	A36 (36 ksi)
T9 100.00-80.00	Truss Leg	#12 - 2.25" - 1.25" conn. (Pirod 105220)	A572-50 (50 ksi)	Equal Angle	L3 1/2x3 1/2x5/16	A36 (36 ksi)
T10 80.00-60.00	Truss Leg	#18 - 2.50" (Pirod 112743)	A572-50 (50 ksi)	Double Equal Angle	2L3 1/2x3 1/2x5/16x3/8	A36 (36 ksi)
T11 60.00-40.00	Truss Leg	#18 - 2.50" (Pirod 112743)	A572-50 (50 ksi)	Double Equal Angle	2L3 1/2x3 1/2x5/16x3/8	A36 (36 ksi)
T12 40.00-20.00	Truss Leg	#18 - 2.75" (Pirod 112744)	A572-50 (50 ksi)	Double Equal Angle	2L3 1/2x3 1/2x5/16x3/8	A36 (36 ksi)
T13 20.00-0.00	Truss Leg	#18 - 2.75" (Pirod 112739) BASE ONLY	A572-50 (50 ksi)	Double Equal Angle	2L3 1/2x3 1/2x5/16x3/8	A36 (36 ksi)

Tower Section Geometry (cont'd)

Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
T1 240.00-230.00	Solid Round	1	A572-50 (50 ksi)	Solid Round	1	A572-50 (50 ksi)

tnxTower SBA Communications Corporation 8051 Congress Avenue Boca Raton, FL 33487-1307 Phone: (555) 226-9337 FAX: (561) 226-0892	Job	CT00990-S, Scotland	Page	5 of 31
	Project	CT00990-ATT-111119	Date	15:28:12 11/12/19
	Client	AT&T (App. # 122605, v3)	Designed by	Juan M. Valega

Tower Elevation <i>ft</i>	Calc K Single Angles	Calc K Solid Rounds	Legs	<i>K Factors¹</i>							
				X Brace Diags	K Brace Diags	Single Diags	Girts	Horiz.	Sec. Horiz.	Inner Brace	
				X Y	X Y	X Y	X Y	X Y	X Y	X Y	
200.00-180.00 T5	Yes	No	1	1	1	1	1	1	1	1	1
180.00-160.00 T6	Yes	No	1	1	1	1	1	1	1	1	1
160.00-140.00 T7	Yes	No	1	1	1	1	1	1	1	1	1
140.00-120.00 T8	Yes	No	1	1	1	1	1	1	1	1	1
120.00-100.00 T9	Yes	No	1	1	1	1	1	1	1	1	1
100.00-80.00 T10	Yes	No	1	1	1	1	1	1	1	1	1
80.00-60.00 T11	Yes	No	1	1	1	1	1	1	1	1	1
60.00-40.00 T12	Yes	No	1	1	1	1	1	1	1	1	1
40.00-20.00 T13	Yes	No	1	1	1	1	1	1	1	1	1
20.00-0.00				1	1	1	1	1	1	1	1

¹Note: K factors are applied to member segment lengths. K-braces without inner supporting members will have the K factor in the out-of-plane direction applied to the overall length.

Tower Section Geometry (cont'd)

Tower Elevation <i>ft</i>	<i>Truss-Leg K Factors</i>					
	<i>Truss-Legs Used As Leg Members</i>			<i>Truss-Legs Used As Inner Members</i>		
	Leg Panels	X Brace Diagonals	Z Brace Diagonals	Leg Panels	X Brace Diagonals	Z Brace Diagonals
210.00-200.00 T3	1	0.5	0.85	1	0.5	0.7
200.00-180.00 T4	1	0.5	0.85	1	0.5	0.7
180.00-160.00 T5	1	0.5	0.85	1	0.7	0.7
160.00-140.00 T6	1	0.5	0.85	1	0.5	0.7
140.00-120.00 T7	1	0.5	0.85	1	0.7	0.7
120.00-100.00 T8	1	0.5	0.85	1	0.5	0.7
100.00-80.00 T9	1	0.5	0.85	1	0.5	0.7
80.00-60.00 T10	1	0.5	1	1	0.5	1
60.00-40.00 T11	1	0.5	1	1	0.5	1
40.00-20.00 T12	1	0.5	1	1	0.5	1
20.00-0.00 T13	1	0.5	1	1	0.5	1

<p>tnxTower</p> <p>SBA Communications Corporation 8051 Congress Avenue Boca Raton, FL 33487-1307 Phone: (555) 226-9337 FAX: (561) 226-0892</p>	Job	CT00990-S, Scotland	Page	7 of 31
	Project	CT00990-ATT-111119	Date	15:28:12 11/12/19
	Client	AT&T (App. # 122605, v3)	Designed by	Juan M. Valega

Tower Elevation	Connection Offsets							
	Diagonal				K-Bracing			
	Vert. Top	Horiz. Top	Vert. Bot.	Horiz. Bot.	Vert. Top	Horiz. Top	Vert. Bot.	Horiz. Bot.
ft	in	in	in	in	in	in	in	in
T7 140.00-120.00	5.0000	12.2500	5.0000	12.2500	0.0000	0.0000	0.0000	0.0000
T8 120.00-100.00	5.0000	12.2500	5.0000	12.2500	0.0000	0.0000	0.0000	0.0000
T9 100.00-80.00	5.0000	12.2500	5.0000	12.2500	0.0000	0.0000	0.0000	0.0000
T10 80.00-60.00	6.5000	15.2500	6.5000	15.2500	0.0000	0.0000	0.0000	0.0000
T11 60.00-40.00	6.5000	15.2500	6.5000	15.2500	0.0000	0.0000	0.0000	0.0000
T12 40.00-20.00	6.5000	15.2500	6.5000	15.2500	0.0000	0.0000	0.0000	0.0000
T13 20.00-0.00	6.5000	15.2500	6.5000	15.2500	0.0000	0.0000	0.0000	0.0000

Tower Section Geometry (cont'd)

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T1 240.00-230.00	Sleeve DS	0.6250	5	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
T2 230.00-210.00	Flange	1.0000	6	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
T3 210.00-200.00	Flange	1.0000	6	1.0000	1	1.0000	0	1.0000	0	1.0000	0	1.0000	0	1.0000	0
T4 200.00-180.00	Flange	1.0000	6	1.0000	1	1.0000	0	1.0000	0	1.0000	0	1.0000	0	1.0000	0
T5 180.00-160.00	Flange	1.0000	6	1.0000	1	1.0000	0	1.0000	0	1.0000	0	1.0000	0	1.0000	0
T6 160.00-140.00	Flange	1.2500	6	1.2500	1	1.0000	0	1.0000	0	1.0000	0	1.0000	0	1.0000	0
T7 140.00-120.00	Flange	1.2500	6	1.2500	1	1.0000	0	1.0000	0	1.0000	0	1.0000	0	1.0000	0
T8 120.00-100.00	Flange	1.2500	6	1.2500	1	1.0000	0	1.0000	0	1.0000	0	1.0000	0	1.0000	0
T9 100.00-80.00	Flange	1.2500	6	1.2500	1	1.0000	0	1.0000	0	1.0000	0	1.0000	0	1.0000	0
T10 80.00-60.00	Flange	1.2500	12	1.0000	2	1.0000	0	1.0000	0	1.0000	0	1.0000	0	1.2500	0
T11 60.00-40.00	Flange	1.2500	12	1.0000	2	1.0000	0	1.0000	0	1.0000	0	1.0000	0	1.2500	0
T12 40.00-20.00	Flange	1.2500	12	1.0000	2	1.0000	0	1.0000	0	1.0000	0	1.0000	0	1.2500	0
T13 20.00-0.00	Flange	1.2500	0	1.0000	2	1.0000	0	1.0000	0	1.0000	0	1.0000	0	1.2500	0

tnxTower SBA Communications Corporation 8051 Congress Avenue Boca Raton, FL 33487-1307 Phone: (555) 226-9337 FAX: (561) 226-0892	Job	CT00990-S, Scotland	Page	8 of 31
	Project	CT00990-ATT-111119	Date	15:28:12 11/12/19
	Client	AT&T (App. # 122605, v3)	Designed by	Juan M. Valega

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
**													
DC Power 3/4"	B	No	No	Ar (CaAa)	238.00 - 8.00	-11.0000 0	0.4	6	6	0.5000	0.4400		0.08
LDF7-50A (1-5/8 FOAM)	B	No	No	Ar (CaAa)	238.00 - 8.00	-10.0000 0	0.425	12	6	0.5000	1.9800		0.82
Fiber 1/2"	B	No	No	Ar (CaAa)	238.00 - 8.00	-11.0000 0	0.4	2	2	0.5000	1.0900		0.33
T-Bracket	B	No	No	Af (CaAa)	240.00 - 8.00	-9.0000	0.425	1	1	3.0000	3.0000		10.00
**													
T-Bracket	C	No	No	Af (CaAa)	240.00 - 8.00	-8.0000	0.425	1	1	3.0000	3.0000		10.00
LDF7-50A (1-5/8 FOAM)	C	No	No	Ar (CaAa)	228.00 - 8.00	-9.0000	0.425	18	9	0.5000	1.9800		0.82
**													

Feed Line/Linear Appurtenances - Entered As Area

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

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
T1	240.00-230.00	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	25.864	0.000	0.188
		C	0.000	0.000	3.000	0.000	0.100
T2	230.00-210.00	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	63.160	0.000	0.420
		C	0.000	0.000	70.152	0.000	0.466
T3	210.00-200.00	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	31.580	0.000	0.210
		C	0.000	0.000	38.640	0.000	0.248
T4	200.00-180.00	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	63.160	0.000	0.420
		C	0.000	0.000	77.280	0.000	0.495
T5	180.00-160.00	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	63.160	0.000	0.420
		C	0.000	0.000	77.280	0.000	0.495
T6	160.00-140.00	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	63.160	0.000	0.420
		C	0.000	0.000	77.280	0.000	0.495

tnxTower SBA Communications Corporation 8051 Congress Avenue Boca Raton, FL 33487-1307 Phone: (555) 226-9337 FAX: (561) 226-0892	Job	CT00990-S, Scotland	Page	9 of 31
	Project	CT00990-ATT-111119	Date	15:28:12 11/12/19
	Client	AT&T (App. # 122605, v3)	Designed by	Juan M. Valega

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight K
T7	140.00-120.00	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	63.160	0.000	0.420
		C	0.000	0.000	77.280	0.000	0.495
T8	120.00-100.00	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	63.160	0.000	0.420
		C	0.000	0.000	77.280	0.000	0.495
T9	100.00-80.00	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	63.160	0.000	0.420
		C	0.000	0.000	77.280	0.000	0.495
T10	80.00-60.00	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	63.160	0.000	0.420
		C	0.000	0.000	77.280	0.000	0.495
T11	60.00-40.00	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	63.160	0.000	0.420
		C	0.000	0.000	77.280	0.000	0.495
T12	40.00-20.00	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	63.160	0.000	0.420
		C	0.000	0.000	77.280	0.000	0.495
T13	20.00-0.00	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	37.896	0.000	0.252
		C	0.000	0.000	46.368	0.000	0.297

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight K
T1	240.00-230.00	A	2.434	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	50.200	0.000	0.998
		C		0.000	0.000	7.868	0.000	0.244
T2	230.00-210.00	A	2.418	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	121.174	0.000	2.358
		C		0.000	0.000	79.189	0.000	2.027
T3	210.00-200.00	A	2.401	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	60.379	0.000	1.171
		C		0.000	0.000	43.035	0.000	1.093
T4	200.00-180.00	A	2.383	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	120.314	0.000	2.324
		C		0.000	0.000	85.881	0.000	2.174
T5	180.00-160.00	A	2.356	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	119.670	0.000	2.299
		C		0.000	0.000	85.608	0.000	2.156
T6	160.00-140.00	A	2.327	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	118.954	0.000	2.272
		C		0.000	0.000	85.305	0.000	2.135
T7	140.00-120.00	A	2.294	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	118.146	0.000	2.241
		C		0.000	0.000	84.962	0.000	2.112
T8	120.00-100.00	A	2.256	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	117.218	0.000	2.205
		C		0.000	0.000	84.569	0.000	2.086
T9	100.00-80.00	A	2.211	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	116.124	0.000	2.164
		C		0.000	0.000	84.106	0.000	2.056
T10	80.00-60.00	A	2.156	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	114.786	0.000	2.114
		C		0.000	0.000	83.539	0.000	2.019
T11	60.00-40.00	A	2.085	0.000	0.000	0.000	0.000	

tnxTower SBA Communications Corporation 8051 Congress Avenue Boca Raton, FL 33487-1307 Phone: (555) 226-9337 FAX: (561) 226-0892	Job	CT00990-S, Scotland	Page	10 of 31
	Project	CT00990-ATT-111119	Date	15:28:12 11/12/19
	Client	AT&T (App. # 122605, v3)	Designed by	Juan M. Valega

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight K
T12	40.00-20.00	B		0.000	0.000	113.048	0.000	2.050
		C		0.000	0.000	82.802	0.000	1.971
		A	1.981	0.000	0.000	0.000	0.000	0.000
T13	20.00-0.00	B		0.000	0.000	110.521	0.000	1.959
		C		0.000	0.000	81.731	0.000	1.902
		A	1.775	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	63.311	0.000	1.070
		C		0.000	0.000	47.766	0.000	1.062

Feed Line Center of Pressure

Section	Elevation ft	CP _X in	CP _Z in	CP _X Ice in	CP _Z Ice in
T1	240.00-230.00	4.4042	8.8995	1.8869	3.9818
T2	230.00-210.00	-6.4289	9.3146	-1.2880	5.1921
T3	210.00-200.00	-5.4842	7.0143	-1.1519	4.1437
T4	200.00-180.00	-6.3995	8.5203	-1.1228	5.0208
T5	180.00-160.00	-7.3795	10.1160	-1.3801	7.7798
T6	160.00-140.00	-8.0168	11.1112	-1.5256	10.1916
T7	140.00-120.00	-9.0297	12.7619	-1.6332	12.3507
T8	120.00-100.00	-9.2723	13.2081	-1.6477	13.5765
T9	100.00-80.00	-9.9186	14.2525	-1.7018	14.7356
T10	80.00-60.00	-10.4755	14.7719	-1.8209	15.8696
T11	60.00-40.00	-11.2221	15.9198	-2.0001	17.0056
T12	40.00-20.00	-11.8004	16.7893	-2.2869	17.9487
T13	20.00-0.00	-8.4230	11.6860	-1.9649	12.3074

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T1	3	DC Power 3/4"	230.00 - 238.00	0.6000	0.3391
T1	4	LDF7-50A (1-5/8 FOAM)	230.00 - 238.00	0.6000	0.3391
T1	5	Fiber 1/2"	230.00 - 238.00	0.6000	0.3391
T1	6	T-Bracket	230.00 - 240.00	0.6000	0.3391
T1	8	T-Bracket	230.00 - 240.00	0.6000	0.3391
T2	3	DC Power 3/4"	210.00 - 230.00	0.6000	0.3686
T2	4	LDF7-50A (1-5/8 FOAM)	210.00 - 230.00	0.6000	0.3686
T2	5	Fiber 1/2"	210.00 - 230.00	0.6000	0.3686
T2	6	T-Bracket	210.00 - 230.00	0.6000	0.3686
T2	8	T-Bracket	210.00 -	0.6000	0.3686

<p>tnxTower</p> <p>SBA Communications Corporation 8051 Congress Avenue Boca Raton, FL 33487-1307 Phone: (555) 226-9337 FAX: (561) 226-0892</p>	Job CT00990-S, Scotland	Page 11 of 31
	Project CT00990-ATT-111119	Date 15:28:12 11/12/19
	Client AT&T (App. # 122605, v3)	Designed by Juan M. Valega

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
			230.00		
T2	9	LDF7-50A (1-5/8 FOAM)	210.00 - 228.00	0.6000	0.3686
T3	3	DC Power 3/4"	200.00 - 210.00	0.6000	0.3239
T3	4	LDF7-50A (1-5/8 FOAM)	200.00 - 210.00	0.6000	0.3239
T3	5	Fiber 1/2"	200.00 - 210.00	0.6000	0.3239
T3	6	T-Bracket	200.00 - 210.00	0.6000	0.3239
T3	8	T-Bracket	200.00 - 210.00	0.6000	0.3239
T3	9	LDF7-50A (1-5/8 FOAM)	200.00 - 210.00	0.6000	0.3239
T4	3	DC Power 3/4"	180.00 - 200.00	0.6000	0.3542
T4	4	LDF7-50A (1-5/8 FOAM)	180.00 - 200.00	0.6000	0.3542
T4	5	Fiber 1/2"	180.00 - 200.00	0.6000	0.3542
T4	6	T-Bracket	180.00 - 200.00	0.6000	0.3542
T4	8	T-Bracket	180.00 - 200.00	0.6000	0.3542
T4	9	LDF7-50A (1-5/8 FOAM)	180.00 - 200.00	0.6000	0.3542
T5	3	DC Power 3/4"	160.00 - 180.00	0.6000	0.4624
T5	4	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	0.6000	0.4624
T5	5	Fiber 1/2"	160.00 - 180.00	0.6000	0.4624
T5	6	T-Bracket	160.00 - 180.00	0.6000	0.4624
T5	8	T-Bracket	160.00 - 180.00	0.6000	0.4624
T5	9	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	0.6000	0.4624
T6	3	DC Power 3/4"	140.00 - 160.00	0.6000	0.5357
T6	4	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.5357
T6	5	Fiber 1/2"	140.00 - 160.00	0.6000	0.5357
T6	6	T-Bracket	140.00 - 160.00	0.6000	0.5357
T6	8	T-Bracket	140.00 - 160.00	0.6000	0.5357
T6	9	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.5357
T7	3	DC Power 3/4"	120.00 - 140.00	0.6000	0.5888
T7	4	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.5888
T7	5	Fiber 1/2"	120.00 - 140.00	0.6000	0.5888
T7	6	T-Bracket	120.00 - 140.00	0.6000	0.5888
T7	8	T-Bracket	120.00 - 140.00	0.6000	0.5888
T7	9	LDF7-50A (1-5/8 FOAM)	120.00 -	0.6000	0.5888

<p>tnxTower</p> <p>SBA Communications Corporation 8051 Congress Avenue Boca Raton, FL 33487-1307 Phone: (555) 226-9337 FAX: (561) 226-0892</p>	Job	CT00990-S, Scotland	Page	12 of 31
	Project	CT00990-ATT-111119	Date	15:28:12 11/12/19
	Client	AT&T (App. # 122605, v3)	Designed by	Juan M. Valega

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T8	3	DC Power 3/4"	140.00 - 100.00	0.6000	0.6000
T8	4	LDF7-50A (1-5/8 FOAM)	120.00 - 100.00	0.6000	0.6000
T8	5	Fiber 1/2"	120.00 - 100.00	0.6000	0.6000
T8	6	T-Bracket	120.00 - 100.00	0.6000	0.6000
T8	8	T-Bracket	120.00 - 100.00	0.6000	0.6000
T8	9	LDF7-50A (1-5/8 FOAM)	120.00 - 100.00	0.6000	0.6000
T9	3	DC Power 3/4"	80.00 - 100.00	0.6000	0.6000
T9	4	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.6000
T9	5	Fiber 1/2"	80.00 - 100.00	0.6000	0.6000
T9	6	T-Bracket	80.00 - 100.00	0.6000	0.6000
T9	8	T-Bracket	80.00 - 100.00	0.6000	0.6000
T9	9	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.6000
T10	3	DC Power 3/4"	60.00 - 80.00	0.6000	0.6000
T10	4	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.6000
T10	5	Fiber 1/2"	60.00 - 80.00	0.6000	0.6000
T10	6	T-Bracket	60.00 - 80.00	0.6000	0.6000
T10	8	T-Bracket	60.00 - 80.00	0.6000	0.6000
T10	9	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.6000
T11	3	DC Power 3/4"	40.00 - 60.00	0.6000	0.6000
T11	4	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.6000
T11	5	Fiber 1/2"	40.00 - 60.00	0.6000	0.6000
T11	6	T-Bracket	40.00 - 60.00	0.6000	0.6000
T11	8	T-Bracket	40.00 - 60.00	0.6000	0.6000
T11	9	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.6000
T12	3	DC Power 3/4"	20.00 - 40.00	0.6000	0.6000
T12	4	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.6000
T12	5	Fiber 1/2"	20.00 - 40.00	0.6000	0.6000
T12	6	T-Bracket	20.00 - 40.00	0.6000	0.6000
T12	8	T-Bracket	20.00 - 40.00	0.6000	0.6000
T12	9	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.6000
T13	3	DC Power 3/4"	8.00 - 20.00	0.6000	0.6000
T13	4	LDF7-50A (1-5/8 FOAM)	8.00 - 20.00	0.6000	0.6000
T13	5	Fiber 1/2"	8.00 - 20.00	0.6000	0.6000
T13	6	T-Bracket	8.00 - 20.00	0.6000	0.6000
T13	8	T-Bracket	8.00 - 20.00	0.6000	0.6000
T13	9	LDF7-50A (1-5/8 FOAM)	8.00 - 20.00	0.6000	0.6000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	Placement	C_{AA} Front	C_{AA} Side	Weight
			ft ft ft	°	ft	ft ²	ft ²	K

**

Flash Beacon Lighting	C	From Leg	0.00	0.0000	240.00	No Ice	2.70	2.70	0.050
-----------------------	---	----------	------	--------	--------	--------	------	------	-------

<p style="text-align: center;">tnxTower</p> <p style="text-align: center;">SBA Communications Corporation 8051 Congress Avenue Boca Raton, FL 33487-1307 Phone: (555) 226-9337 FAX: (561) 226-0892</p>	Job	CT00990-S, Scotland	Page	13 of 31
	Project	CT00990-ATT-111119	Date	15:28:12 11/12/19
	Client	AT&T (App. # 122605, v3)	Designed by	Juan M. Valega

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Lateral					
			0.00						
			0.00			1/2" Ice	3.10	3.10	0.070
			0.00			1" Ice	3.50	3.50	0.090
Lightning Rod	B	From Leg	0.00	0.0000	240.00	No Ice	0.25	0.25	0.030
			0.00			1/2" Ice	0.66	0.66	0.034
			2.00			1" Ice	0.97	0.97	0.039
**									
(1) Low Profile Platform	C	None		0.0000	238.00	No Ice	14.66	14.66	1.250
						1/2" Ice	18.87	18.87	1.481
						1" Ice	23.08	23.08	1.713
**									
(MOD)_Hand Rail Kit	C	None		0.0000	238.00	No Ice	11.76	6.93	0.462
						1/2" Ice	15.14	8.92	0.634
						1" Ice	18.51	10.91	0.807
**									
2" sch 40 x 96" pipe	A	From Leg	4.00	0.0000	238.00	No Ice	1.90	1.90	0.029
			0.00			1/2" Ice	2.73	2.73	0.043
			0.00			1" Ice	3.40	3.40	0.063
2" sch 40 x 96" pipe	B	From Leg	4.00	0.0000	238.00	No Ice	1.90	1.90	0.029
			0.00			1/2" Ice	2.73	2.73	0.043
			0.00			1" Ice	3.40	3.40	0.063
2" sch 40 x 96" pipe	C	From Leg	4.00	0.0000	238.00	No Ice	1.90	1.90	0.029
			0.00			1/2" Ice	2.73	2.73	0.043
			0.00			1" Ice	3.40	3.40	0.063
**									
7770 (55"x11"x5") w/mount pipe	A	From Leg	4.00	0.0000	238.00	No Ice	6.32	4.83	0.064
			0.00			1/2" Ice	7.03	6.00	0.118
			2.00			1" Ice	7.69	7.03	0.179
7770 (55"x11"x5") w/mount pipe	B	From Leg	4.00	0.0000	238.00	No Ice	6.32	4.83	0.064
			0.00			1/2" Ice	7.03	6.00	0.118
			2.00			1" Ice	7.69	7.03	0.179
7770 (55"x11"x5") w/mount pipe	C	From Leg	4.00	0.0000	238.00	No Ice	6.32	4.83	0.064
			0.00			1/2" Ice	7.03	6.00	0.118
			2.00			1" Ice	7.69	7.03	0.179
(2) DMP65R-BU8DA (96"x20.7"x7.7") w/mount pipe	A	From Leg	4.00	0.0000	238.00	No Ice	17.87	10.02	0.125
			0.00			1/2" Ice	18.50	11.44	0.244
			2.00			1" Ice	19.14	12.72	0.373
(2) DMP65R-BU8DA (96"x20.7"x7.7") w/mount pipe	B	From Leg	4.00	0.0000	238.00	No Ice	17.87	10.02	0.125
			0.00			1/2" Ice	18.50	11.44	0.244
			2.00			1" Ice	19.14	12.72	0.373
(2) DMP65R-BU8DA (96"x20.7"x7.7") w/mount pipe	C	From Leg	4.00	0.0000	238.00	No Ice	17.87	10.02	0.125
			0.00			1/2" Ice	18.50	11.44	0.244
			2.00			1" Ice	19.14	12.72	0.373
(2) LGP21401 (14"x9"x2.7")	A	From Leg	4.00	0.0000	238.00	No Ice	1.05	0.35	0.019
			0.00			1/2" Ice	1.18	0.44	0.026
			2.00			1" Ice	1.32	0.54	0.035
(2) LGP21401 (14"x9"x2.7")	B	From Leg	4.00	0.0000	238.00	No Ice	1.05	0.35	0.019
			0.00			1/2" Ice	1.18	0.44	0.026
			2.00			1" Ice	1.32	0.54	0.035
(2) LGP21401 (14"x9"x2.7")	C	From Leg	4.00	0.0000	238.00	No Ice	1.05	0.35	0.019
			0.00			1/2" Ice	1.18	0.44	0.026
			2.00			1" Ice	1.32	0.54	0.035
4478 B14 (18.1"x13.4"x8.26")	A	From Leg	4.00	0.0000	238.00	No Ice	2.02	1.25	0.059
			0.00			1/2" Ice	2.20	1.40	0.077
			2.00			1" Ice	2.39	1.55	0.097
4478 B14 (18.1"x13.4"x8.26")	B	From Leg	4.00	0.0000	238.00	No Ice	2.02	1.25	0.059
			0.00			1/2" Ice	2.20	1.40	0.077
			2.00			1" Ice	2.39	1.55	0.097

tnxTower SBA Communications Corporation 8051 Congress Avenue Boca Raton, FL 33487-1307 Phone: (555) 226-9337 FAX: (561) 226-0892	Job	CT00990-S, Scotland	Page	14 of 31
	Project	CT00990-ATT-111119	Date	15:28:12 11/12/19
	Client	AT&T (App. # 122605, v3)	Designed by	Juan M. Valega

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Lateral					
4478 B14 (18.1"x13.4"x8.26")	C	From Leg	4.00	0.0000	238.00	No Ice	2.02	1.25	0.059
			0.00			1/2" Ice	2.20	1.40	0.077
			2.00			1" Ice	2.39	1.55	0.097
8843 B2 B66A (14.9"x13.2"x10.9")	A	From Leg	4.00	0.0000	238.00	No Ice	1.64	1.35	0.072
			0.00			1/2" Ice	1.80	1.50	0.090
			2.00			1" Ice	1.97	1.65	0.110
8843 B2 B66A (14.9"x13.2"x10.9")	B	From Leg	4.00	0.0000	238.00	No Ice	1.64	1.35	0.072
			0.00			1/2" Ice	1.80	1.50	0.090
			2.00			1" Ice	1.97	1.65	0.110
8843 B2 B66A (14.9"x13.2"x10.9")	C	From Leg	4.00	0.0000	238.00	No Ice	1.64	1.35	0.072
			0.00			1/2" Ice	1.80	1.50	0.090
			2.00			1" Ice	1.97	1.65	0.110
4449 B5/B12 (14.96"x13.19"x10.43")	A	From Leg	4.00	0.0000	238.00	No Ice	1.64	1.30	0.073
			0.00			1/2" Ice	1.80	1.45	0.090
			2.00			1" Ice	1.97	1.60	0.110
4449 B5/B12 (14.96"x13.19"x10.43")	B	From Leg	4.00	0.0000	238.00	No Ice	1.64	1.30	0.073
			0.00			1/2" Ice	1.80	1.45	0.090
			2.00			1" Ice	1.97	1.60	0.110
4449 B5/B12 (14.96"x13.19"x10.43")	C	From Leg	4.00	0.0000	238.00	No Ice	1.64	1.30	0.073
			0.00			1/2" Ice	1.80	1.45	0.090
			2.00			1" Ice	1.97	1.60	0.110
DC6-48-60-18-8F (24"x11"x11")	A	From Leg	4.00	0.0000	238.00	No Ice	2.20	2.20	0.033
			0.00			1/2" Ice	2.40	2.40	0.055
			2.00			1" Ice	2.60	2.60	0.081
DC6-48-60-18-8F (24"x11"x11")	B	From Leg	4.00	0.0000	238.00	No Ice	2.20	2.20	0.033
			0.00			1/2" Ice	2.40	2.40	0.055
			2.00			1" Ice	2.60	2.60	0.081
DC6-48-60-18-8F (24"x11"x11")	C	From Leg	4.00	0.0000	238.00	No Ice	2.20	2.20	0.033
			0.00			1/2" Ice	2.40	2.40	0.055
			2.00			1" Ice	2.60	2.60	0.081
**									
**									
(1) T-Frame	A	From Leg	4.00	0.0000	228.00	No Ice	9.76	7.05	0.095
			0.00			1/2" Ice	13.67	10.13	0.137
			0.00			1" Ice	17.58	13.21	0.179
(1) T-Frame	B	From Leg	4.00	0.0000	228.00	No Ice	9.76	7.05	0.095
			0.00			1/2" Ice	13.67	10.13	0.137
			0.00			1" Ice	17.58	13.21	0.179
(1) T-Frame	C	From Leg	4.00	0.0000	228.00	No Ice	9.76	7.05	0.095
			0.00			1/2" Ice	13.67	10.13	0.137
			0.00			1" Ice	17.58	13.21	0.179
**									
(2) LPA-80080/6CF (70.9"x5.5"x13.2") w/mount pipe	A	From Leg	4.00	0.0000	228.00	No Ice	4.82	10.53	0.050
			0.00			1/2" Ice	5.47	11.81	0.120
			0.00			1" Ice	6.10	12.95	0.197
(2) LPA-80080/6CF (70.9"x5.5"x13.2") w/mount pipe	B	From Leg	4.00	0.0000	228.00	No Ice	4.82	10.53	0.050
			0.00			1/2" Ice	5.47	11.81	0.120
			0.00			1" Ice	6.10	12.95	0.197
(2) LPA-80080/6CF (70.9"x5.5"x13.2") w/mount pipe	C	From Leg	4.00	0.0000	228.00	No Ice	4.82	10.53	0.050
			0.00			1/2" Ice	5.47	11.81	0.120
			0.00			1" Ice	6.10	12.95	0.197
BXA-171085-12BF (71.7"x11.2"x5.2") w/mount pipe	A	From Leg	4.00	0.0000	228.00	No Ice	8.14	6.11	0.044
			0.00			1/2" Ice	8.80	7.38	0.108
			0.00			1" Ice	9.43	8.50	0.180
BXA-171085-12BF (71.7"x11.2"x5.2") w/mount pipe	B	From Leg	4.00	0.0000	228.00	No Ice	8.14	6.11	0.044
			0.00			1/2" Ice	8.80	7.38	0.108
			0.00			1" Ice	9.43	8.50	0.180

tnxTower SBA Communications Corporation 8051 Congress Avenue Boca Raton, FL 33487-1307 Phone: (555) 226-9337 FAX: (561) 226-0892	Job	CT00990-S, Scotland	Page	15 of 31
	Project	CT00990-ATT-111119	Date	15:28:12 11/12/19
	Client	AT&T (App. # 122605, v3)	Designed by	Juan M. Valega

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Lateral					
			ft	ft	°	ft	ft ²	ft ²	K
BXA-171085-12BF (71.7"x11.2"5.2") w/mount pipe	C	From Leg	4.00	0.0000	0.0000	228.00	No Ice 8.14	6.11	0.044
			0.00				1/2" Ice 8.80	7.38	0.108
			0.00				1" Ice 9.43	8.50	0.180
BXA-70063/6CF (71"x11.3"x6") w/mount pipe	A	From Leg	4.00	0.0000	0.0000	228.00	No Ice 8.12	6.52	0.046
			0.00				1/2" Ice 8.78	7.79	0.112
			0.00				1" Ice 9.41	8.91	0.186
BXA-70063/6CF (71"x11.3"x6") w/mount pipe	B	From Leg	4.00	0.0000	0.0000	228.00	No Ice 8.12	6.52	0.046
			0.00				1/2" Ice 8.78	7.79	0.112
			0.00				1" Ice 9.41	8.91	0.186
BXA-70063/6CF (71"x11.3"x6") w/mount pipe	C	From Leg	4.00	0.0000	0.0000	228.00	No Ice 8.12	6.52	0.046
			0.00				1/2" Ice 8.78	7.79	0.112
			0.00				1" Ice 9.41	8.91	0.186
**									

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets:		Azimuth Adjustment	3 dB Beam Width	Elevation	Outside Diameter	Aperture Area	Weight
				Horz	Lateral						
			ft	ft	°	°	ft	ft	ft ²	K	
**											

Truss-Leg Properties

Section Designation	Area	Area Ice	Self Weight	Ice Weight	Equiv. Diameter	Equiv. Diameter Ice	Leg Area
	in ²	in ²	K	K	in	in	in ²
#12 - 1.25" - 1.00" conn. (Pirod 105244)	999.6067	2976.5040	0.588	1.057	6.9417	20.6702	3.6816
#12 - 1.50" - 1.00" conn. (Pirod 105217)	1915.9060	7139.2772	0.666	1.960	6.6525	24.7892	5.3014
#12 - 1.75" - 1.00" conn. (Pirod 105218)	2029.7828	7187.9803	0.797	1.953	7.0479	24.9583	7.2158
#12 - 2.00" - 1.25" conn. (Pirod 105219)	2441.3011	7234.0721	0.944	1.987	8.4767	25.1183	9.4248
#12 - 2.00" - 1.25" conn. (Pirod 105219)	2260.7557	7204.8454	1.026	1.850	7.8498	25.0168	9.4248
#12 - 2.25" - 1.25" conn. (Pirod 105220)	2387.7320	7243.2516	1.203	1.824	8.2907	25.1502	11.9282
#12 - 2.25" - 1.25" conn. (Pirod 105220)	2387.7320	7203.6326	1.203	1.764	8.2907	25.0126	11.9282
#18 - 2.50" (Pirod	3726.9434	8798.3423	1.820	2.743	12.9408	30.5498	14.7262

<p style="text-align: center;">tnxTower</p> <p style="text-align: center;">SBA Communications Corporation 8051 Congress Avenue Boca Raton, FL 33487-1307 Phone: (555) 226-9337 FAX: (561) 226-0892</p>	Job	CT00990-S, Scotland	Page	16 of 31
	Project	CT00990-ATT-111119	Date	15:28:12 11/12/19
	Client	AT&T (App. # 122605, v3)	Designed by	Juan M. Valega

Section Designation	Area	Area Ice	Self Weight	Ice Weight	Equiv. Diameter	Equiv. Diameter Ice	Leg Area
	in ²	in ²	K	K	in	in	in ²
112743)							
#18 - 2.50" (Pirod 112743)	3726.9434	8747.5936	1.820	2.595	12.9408	30.3736	14.7262
#18 - 2.75" (Pirod 112744)	3857.6504	8745.7392	2.038	2.411	13.3946	30.3672	17.8187
#18 - 2.75" (Pirod 112739) BASE ONLY	3850.6770	8599.1268	2.038	2.049	13.3704	29.8581	17.8187

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.6 Wind 0 deg - No Ice
3	0.9 Dead+1.6 Wind 0 deg - No Ice
4	1.2 Dead+1.6 Wind 30 deg - No Ice
5	0.9 Dead+1.6 Wind 30 deg - No Ice
6	1.2 Dead+1.6 Wind 60 deg - No Ice
7	0.9 Dead+1.6 Wind 60 deg - No Ice
8	1.2 Dead+1.6 Wind 90 deg - No Ice
9	0.9 Dead+1.6 Wind 90 deg - No Ice
10	1.2 Dead+1.6 Wind 120 deg - No Ice
11	0.9 Dead+1.6 Wind 120 deg - No Ice
12	1.2 Dead+1.6 Wind 150 deg - No Ice
13	0.9 Dead+1.6 Wind 150 deg - No Ice
14	1.2 Dead+1.6 Wind 180 deg - No Ice
15	0.9 Dead+1.6 Wind 180 deg - No Ice
16	1.2 Dead+1.6 Wind 210 deg - No Ice
17	0.9 Dead+1.6 Wind 210 deg - No Ice
18	1.2 Dead+1.6 Wind 240 deg - No Ice
19	0.9 Dead+1.6 Wind 240 deg - No Ice
20	1.2 Dead+1.6 Wind 270 deg - No Ice
21	0.9 Dead+1.6 Wind 270 deg - No Ice
22	1.2 Dead+1.6 Wind 300 deg - No Ice
23	0.9 Dead+1.6 Wind 300 deg - No Ice
24	1.2 Dead+1.6 Wind 330 deg - No Ice
25	0.9 Dead+1.6 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service

tnxTower SBA Communications Corporation 8051 Congress Avenue Boca Raton, FL 33487-1307 Phone: (555) 226-9337 FAX: (561) 226-0892	Job	CT00990-S, Scotland	Page	17 of 31
	Project	CT00990-ATT-111119	Date	15:28:12 11/12/19
	Client	AT&T (App. # 122605, v3)	Designed by	Juan M. Valega

<i>Comb. No.</i>	<i>Description</i>
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

<i>Section No.</i>	<i>Elevation ft</i>	<i>Component Type</i>	<i>Condition</i>	<i>Gov. Load Comb.</i>	<i>Axial K</i>	<i>Major Axis Moment kip-ft</i>	<i>Minor Axis Moment kip-ft</i>		
T1	240 - 230	Leg	Max Tension	7	15.598	0.97	-0.49		
			Max. Compression	18	-18.817	-0.14	0.07		
			Max. Mx	20	10.514	-1.05	-0.04		
			Max. My	2	-15.688	-0.00	-1.04		
			Max. Vy	8	2.667	0.16	-0.01		
			Max. Vx	2	-2.682	-0.00	-0.15		
		Diagonal	Max Tension	21	3.463	0.00	0.00		
			Max. Compression	20	-3.480	0.00	0.00		
			Max. Mx	27	0.026	-0.01	-0.00		
			Max. My	8	-2.827	-0.00	0.00		
			Max. Vy	27	0.016	-0.01	-0.00		
			Max. Vx	8	-0.000	-0.00	0.00		
		Top Girt	Max Tension	7	0.055	0.00	0.00		
			Max. Compression	18	-0.071	0.00	0.00		
			Max. Mx	26	-0.045	0.03	0.00		
		Bottom Girt	Max. Vy	26	0.031	0.00	0.00		
			Max Tension	6	1.719	0.00	0.00		
			Max. Compression	19	-1.712	0.00	0.00		
		T2	230 - 210	Leg	Max. Mx	26	0.029	0.03	0.00
					Max. Vy	26	0.031	0.00	0.00
					Max Tension	7	70.537	-0.07	-0.02
Max. Compression	18				-76.343	1.07	0.10		
Max. Mx	6				18.364	-1.82	-0.10		
Max. My	4				-1.868	-0.00	-1.66		
Diagonal	Max. Vy			14	5.010	-1.11	-0.06		
	Max. Vx			16	-4.051	-0.02	0.94		
	Max Tension			8	4.975	0.00	0.00		
	Max. Compression			8	-4.995	0.00	0.00		
	Max. Mx			35	1.307	-0.01	0.00		
	Max. My			20	-4.501	-0.00	-0.00		
Top Girt	Max. Vy			35	0.021	-0.01	0.00		
	Max. Vx			20	0.000	0.00	0.00		
	Max Tension			19	1.673	0.00	0.00		
Bottom Girt	Max. Compression			6	-1.679	0.00	0.00		
	Max. Mx			26	-0.016	0.03	0.00		
	Max. Vy			26	0.030	0.00	0.00		
T3	210 - 200			Leg	Max Tension	6	1.949	0.00	0.00
					Max. Compression	19	-1.825	0.00	0.00
					Max. Mx	26	0.449	0.04	0.00
		Diagonal	Max. Vy	26	-0.034	0.00	0.00		
			Max Tension	7	73.679	0.84	0.48		
			Max. Compression	18	-79.208	9.29	0.63		
T3	210 - 200	Leg	Max. Mx	14	72.729	-9.47	-0.37		
			Max. My	16	-3.138	-0.09	8.48		
			Max. Vy	14	1.184	-9.47	-0.37		
		Diagonal	Max. Vx	12	1.453	-0.09	-8.33		
			Max Tension	7	7.624	0.15	-0.04		
			Max. Compression	18	-7.624	0.15	-0.04		

tnxTower SBA Communications Corporation 8051 Congress Avenue Boca Raton, FL 33487-1307 Phone: (555) 226-9337 FAX: (561) 226-0892	Job	CT00990-S, Scotland	Page	18 of 31
	Project	CT00990-ATT-111119	Date	15:28:12 11/12/19
	Client	AT&T (App. # 122605, v3)	Designed by	Juan M. Valega

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft			
T4	200 - 180	Leg	Max. Compression	18	-8.232	0.00	0.00			
			Max. Mx	18	-6.405	-0.15	-0.01			
			Max. My	20	-5.588	-0.13	0.05			
			Max. Vy	16	-0.037	0.15	-0.02			
			Max. Vx	20	-0.012	0.00	0.00			
			Max Tension	15	111.527	-0.38	0.24			
			Max. Compression	18	-120.127	9.13	0.55			
			Max. Mx	2	-101.195	10.45	0.38			
			Max. My	20	-3.498	-0.55	-8.24			
			Max. Vy	2	-1.648	10.45	0.38			
			Max. Vx	24	-0.452	0.07	5.09			
			Max Tension	8	6.103	0.09	-0.00			
			Max. Compression	8	-6.077	0.00	0.00			
			Max. Mx	16	3.250	0.16	-0.00			
Max. My	18	3.919	0.14	0.03						
T5	180 - 160	Leg	Max. Vy	34	-0.055	0.12	-0.01			
			Max. Vx	18	-0.006	0.00	0.00			
			Max Tension	15	142.098	-0.81	0.24			
			Max. Compression	2	-153.120	9.34	0.48			
			Max. Mx	2	-153.120	9.34	0.48			
			Max. My	16	-5.844	-0.06	6.71			
			Max. Vy	2	-1.034	9.34	0.48			
			Max. Vx	24	-0.717	-0.06	6.47			
			Max Tension	7	6.159	0.00	0.00			
			Max. Compression	18	-6.436	0.00	0.00			
			Max. Mx	35	1.481	0.10	-0.01			
			Max. My	35	1.011	0.10	0.02			
			Max. Vy	35	-0.062	0.10	-0.01			
			Max. Vx	35	-0.004	0.00	0.00			
T6	160 - 140	Leg	Max Tension	15	172.420	-0.74	0.28			
			Max. Compression	2	-187.491	9.05	0.34			
			Max. Mx	2	-170.680	9.08	0.34			
			Max. My	16	-7.592	0.03	6.11			
			Max. Vy	2	-1.033	9.05	0.34			
			Max. Vx	24	-0.595	0.07	5.89			
			Max Tension	6	6.601	0.00	0.00			
			Max. Compression	18	-6.924	0.00	0.00			
			Max. Mx	35	1.729	0.14	-0.01			
			Max. My	29	1.488	0.12	-0.02			
			Max. Vy	33	0.082	0.12	-0.02			
			Max. Vx	29	0.005	0.00	0.00			
			T7	140 - 120	Leg	Max Tension	15	201.782	-1.19	0.21
						Max. Compression	2	-221.377	8.42	0.32
Max. Mx	2	-221.377				8.42	0.32			
Max. My	16	-9.621				-0.02	6.78			
Max. Vy	2	-0.920				8.42	0.32			
Max. Vx	24	-0.586				-0.02	6.44			
Max Tension	6	7.389				0.00	0.00			
Max. Compression	18	-7.787				0.00	0.00			
Max. Mx	35	1.954				0.17	-0.02			
Max. My	35	1.257				0.17	0.02			
Max. Vy	33	0.097				0.15	-0.02			
Max. Vx	35	-0.006				0.00	0.00			
T8	120 - 100	Leg				Max Tension	15	231.132	-2.09	0.18
						Max. Compression	2	-256.073	6.91	0.23
			Max. Mx	2	-239.019	8.14	0.23			
			Max. My	16	-13.092	-0.19	7.55			
			Max. Vy	2	-0.843	8.14	0.23			
			Max. Vx	12	0.675	-0.19	-7.10			
			Max Tension	18	8.021	0.00	0.00			
			Max. Compression	18	-8.362	0.00	0.00			

<p>tnxTower</p> <p>SBA Communications Corporation 8051 Congress Avenue Boca Raton, FL 33487-1307 Phone: (555) 226-9337 FAX: (561) 226-0892</p>	Job	CT00990-S, Scotland	Page	19 of 31
	Project	CT00990-ATT-111119	Date	15:28:12 11/12/19
	Client	AT&T (App. # 122605, v3)	Designed by	Juan M. Valega

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
T9	100 - 80	Leg	Max. Mx	35	2.474	0.23	-0.03
			Max. My	35	-2.229	0.20	0.03
			Max. Vy	33	0.126	0.21	-0.03
			Max. Vx	35	-0.007	0.00	0.00
			Max Tension	15	261.197	-2.18	0.20
			Max. Compression	2	-291.963	12.38	0.63
			Max. Mx	2	-291.963	12.38	0.63
		Diagonal	Max. My	16	-15.684	0.12	11.13
			Max. Vy	3	-1.176	12.34	0.63
			Max. Vx	12	1.325	0.12	-10.70
			Max Tension	18	9.380	0.00	0.00
			Max. Compression	18	-9.745	0.00	0.00
			Max. Mx	35	2.612	0.26	0.03
			Max. My	35	-1.266	0.23	0.04
T10	80 - 60	Leg	Max. Vy	34	0.140	0.26	-0.03
			Max. Vx	35	-0.008	0.00	0.00
			Max Tension	15	279.032	-1.41	0.24
			Max. Compression	2	-314.327	20.16	0.87
			Max. Mx	14	273.623	-20.87	-0.90
			Max. My	16	-18.373	-0.88	23.76
			Max. Vy	14	1.472	-20.87	-0.90
		Diagonal	Max. Vx	12	1.513	-0.89	-22.43
			Max Tension	6	13.236	0.00	0.00
			Max. Compression	18	-14.402	0.00	0.00
			Max. Mx	33	1.558	-0.63	0.09
			Max. My	35	-5.328	-0.50	-0.12
			Max. Vy	33	-0.234	-0.63	0.09
			Max. Vx	35	0.017	0.00	0.00
T11	60 - 40	Leg	Max Tension	15	310.163	1.13	0.50
			Max. Compression	2	-353.368	27.12	0.83
			Max. Mx	2	-353.368	27.12	0.83
			Max. My	16	-19.771	-1.72	17.25
			Max. Vy	2	-1.988	27.12	0.83
			Max. Vx	16	1.129	-1.72	17.25
			Max Tension	8	13.250	0.00	0.00
		Diagonal	Max. Compression	18	-14.121	0.00	0.00
			Max. Mx	33	3.829	-0.70	0.12
			Max. My	35	3.718	-0.68	-0.12
			Max. Vy	33	-0.254	-0.70	0.12
			Max. Vx	35	0.017	0.00	0.00
			Max Tension	15	339.923	-3.82	0.41
			Max. Compression	2	-391.835	16.88	0.69
T12	40 - 20	Leg	Max. Mx	14	332.440	-19.02	-0.73
			Max. My	16	-26.358	-1.56	30.05
			Max. Vy	14	1.225	-19.02	-0.73
			Max. Vx	16	-2.053	-1.56	30.05
			Max Tension	18	14.366	0.00	0.00
			Max. Compression	6	-13.430	0.00	0.00
			Max. Mx	33	0.378	-0.83	0.11
		Diagonal	Max. My	35	-4.930	-0.70	-0.13
			Max. Vy	33	-0.274	-0.83	0.11
			Max. Vx	35	0.017	0.00	0.00
			Max Tension	15	364.033	-4.05	0.36
			Max. Compression	2	-422.548	12.04	0.50
			Max. Mx	2	-422.548	12.04	0.50
			Max. My	16	-26.787	-1.84	20.57
Leg	Max. Vy	2	-0.882	12.04	0.50		
	Max. Vx	16	1.339	-1.84	20.57		
	Max Tension	7	16.445	0.00	0.00		
	Diagonal	Max. Compression	18	-18.255	0.00	0.00	
		Max. Mx	34	5.178	-0.81	-0.14	

tnxTower SBA Communications Corporation 8051 Congress Avenue Boca Raton, FL 33487-1307 Phone: (555) 226-9337 FAX: (561) 226-0892	Job	CT00990-S, Scotland	Page	20 of 31
	Project	CT00990-ATT-111119	Date	15:28:12 11/12/19
	Client	AT&T (App. # 122605, v3)	Designed by	Juan M. Valega

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. My	34	5.797	-0.74	-0.14
			Max. Vy	34	-0.273	-0.81	-0.14
			Max. Vx	34	0.017	0.00	0.00

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Leg C	Max. Vert	18	432.636	41.083	-21.784
	Max. H _x	18	432.636	41.083	-21.784
	Max. H _z	7	-363.749	-35.206	18.465
	Min. Vert	7	-363.749	-35.206	18.465
	Min. H _x	7	-363.749	-35.206	18.465
Leg B	Min. H _z	18	432.636	41.083	-21.784
	Max. Vert	10	400.096	-37.686	-20.645
	Max. H _x	23	-332.134	31.823	17.348
	Max. H _z	23	-332.134	31.823	17.348
	Min. Vert	23	-332.134	31.823	17.348
Leg A	Min. H _x	10	400.096	-37.686	-20.645
	Min. H _z	10	400.096	-37.686	-20.645
	Max. Vert	2	443.804	-0.989	48.121
	Max. H _x	15	-380.353	0.976	-41.505
	Max. H _z	2	443.804	-0.989	48.121
	Min. Vert	15	-380.353	0.976	-41.505
	Min. H _x	2	443.804	-0.989	48.121
	Min. H _z	15	-380.353	0.976	-41.505

Tower Mast Reaction Summary

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
Dead Only	74.602	-0.000	0.000	35.55	5.73	0.00
1.2 Dead+1.6 Wind 0 deg - No Ice	89.523	-0.000	-70.848	-9321.07	6.87	-44.23
0.9 Dead+1.6 Wind 0 deg - No Ice	67.142	-0.000	-70.848	-9331.73	5.15	-44.23
1.2 Dead+1.6 Wind 30 deg - No Ice	89.523	34.764	-60.213	-7988.28	-4629.79	31.97
0.9 Dead+1.6 Wind 30 deg - No Ice	67.142	34.764	-60.213	-7998.94	-4631.51	31.97
1.2 Dead+1.6 Wind 60 deg - No Ice	89.523	56.207	-32.451	-4314.75	-7540.38	73.86
0.9 Dead+1.6 Wind 60 deg - No Ice	67.142	56.207	-32.451	-4325.41	-7542.10	73.86
1.2 Dead+1.6 Wind 90 deg - No Ice	89.523	61.303	0.000	42.66	-8224.25	53.23
0.9 Dead+1.6 Wind 90 deg - No Ice	67.142	61.303	0.000	31.99	-8225.97	53.23
1.2 Dead+1.6 Wind 120 deg - No Ice	89.523	54.234	31.312	4203.42	-7199.78	41.48
0.9 Dead+1.6 Wind 120 deg -	67.142	54.234	31.312	4192.76	-7201.50	41.48

<p style="text-align: center;">tnxTower</p> <p style="text-align: center;">SBA Communications Corporation 8051 Congress Avenue Boca Raton, FL 33487-1307 Phone: (555) 226-9337 FAX: (561) 226-0892</p>	<p style="text-align: center;">Job</p> <p style="text-align: center;">CT00990-S, Scotland</p>	<p style="text-align: center;">Page</p> <p style="text-align: center;">21 of 31</p>
	<p style="text-align: center;">Project</p> <p style="text-align: center;">CT00990-ATT-111119</p>	<p style="text-align: center;">Date</p> <p style="text-align: center;">15:28:12 11/12/19</p>
	<p style="text-align: center;">Client</p> <p style="text-align: center;">AT&T (App. # 122605, v3)</p>	<p style="text-align: center;">Designed by</p> <p style="text-align: center;">Juan M. Valega</p>

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
No Ice						
1.2 Dead+1.6 Wind 150 deg - No Ice	89.523	31.512	54.581	7329.56	-4200.22	65.82
0.9 Dead+1.6 Wind 150 deg - No Ice	67.142	31.512	54.581	7318.89	-4201.94	65.82
1.2 Dead+1.6 Wind 180 deg - No Ice	89.523	0.000	67.670	9078.88	6.87	44.23
0.9 Dead+1.6 Wind 180 deg - No Ice	67.142	0.000	67.670	9068.21	5.15	44.23
1.2 Dead+1.6 Wind 210 deg - No Ice	89.523	-34.764	60.213	8073.59	4643.54	-31.97
0.9 Dead+1.6 Wind 210 deg - No Ice	67.142	-34.764	60.213	8062.93	4641.82	-31.97
1.2 Dead+1.6 Wind 240 deg - No Ice	89.523	-58.959	34.040	4563.82	7837.76	-73.86
0.9 Dead+1.6 Wind 240 deg - No Ice	67.142	-58.959	34.040	4553.16	7836.04	-73.86
1.2 Dead+1.6 Wind 270 deg - No Ice	89.523	-61.303	0.000	42.66	8238.00	-53.23
0.9 Dead+1.6 Wind 270 deg - No Ice	67.142	-61.303	0.000	31.99	8236.28	-53.23
1.2 Dead+1.6 Wind 300 deg - No Ice	89.523	-51.482	-29.723	-3954.35	6929.89	-41.48
0.9 Dead+1.6 Wind 300 deg - No Ice	67.142	-51.482	-29.723	-3965.01	6928.17	-41.48
1.2 Dead+1.6 Wind 330 deg - No Ice	89.523	-31.512	-54.581	-7244.24	4213.97	-65.82
0.9 Dead+1.6 Wind 330 deg - No Ice	67.142	-31.512	-54.581	-7254.90	4212.25	-65.82
1.2 Dead+1.0 Ice+1.0 Temp	248.347	0.000	0.000	166.94	-0.28	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	248.347	0.000	-19.601	-2468.46	-0.28	-2.23
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	248.347	9.830	-17.027	-2127.76	-1325.12	12.99
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	248.347	16.623	-9.598	-1132.38	-2250.77	20.64
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	248.347	18.577	0.000	166.94	-2524.35	15.37
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	248.347	16.036	9.259	1421.83	-2173.82	10.08
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	248.347	9.306	16.119	2352.71	-1262.24	9.47
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	248.347	0.000	19.230	2765.42	-0.28	2.23
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	248.347	-9.830	17.027	2461.64	1324.56	-12.99
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	248.347	-16.944	9.783	1484.72	2282.18	-20.64
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	248.347	-18.577	0.000	166.94	2523.79	-15.37
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	248.347	-15.715	-9.073	-1069.49	2141.29	-10.08
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	248.347	-9.306	-16.119	-2018.84	1261.68	-9.47
Dead+Wind 0 deg - Service	74.602	-0.000	-15.627	-2029.78	5.73	-9.76
Dead+Wind 30 deg - Service	74.602	7.668	-13.281	-1735.81	-1016.97	7.05
Dead+Wind 60 deg - Service	74.602	12.397	-7.158	-925.55	-1658.94	16.29
Dead+Wind 90 deg - Service	74.602	13.521	0.000	35.55	-1809.78	11.74
Dead+Wind 120 deg - Service	74.602	11.962	6.906	953.27	-1583.82	9.15
Dead+Wind 150 deg - Service	74.602	6.951	12.039	1642.80	-922.22	14.52
Dead+Wind 180 deg - Service	74.602	0.000	14.926	2028.64	5.73	9.76

tnxTower SBA Communications Corporation 8051 Congress Avenue Boca Raton, FL 33487-1307 Phone: (555) 226-9337 FAX: (561) 226-0892	Job	CT00990-S, Scotland	Page	22 of 31
	Project	CT00990-ATT-111119	Date	15:28:12 11/12/19
	Client	AT&T (App. # 122605, v3)	Designed by	Juan M. Valega

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
Dead+Wind 210 deg - Service	74.602	-7.668	13.281	1806.90	1028.42	-7.05
Dead+Wind 240 deg - Service	74.602	-13.004	7.508	1032.77	1732.96	-16.29
Dead+Wind 270 deg - Service	74.602	-13.521	0.000	35.55	1821.24	-11.74
Dead+Wind 300 deg - Service	74.602	-11.355	-6.556	-846.06	1532.71	-9.15
Dead+Wind 330 deg - Service	74.602	-6.951	-12.039	-1571.70	933.67	-14.52

Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.000	-74.602	0.000	0.000	74.602	-0.000	0.000%
2	0.000	-89.523	-70.848	0.000	89.523	70.848	0.000%
3	0.000	-67.142	-70.848	0.000	67.142	70.848	0.000%
4	34.764	-89.523	-60.213	-34.764	89.523	60.213	0.000%
5	34.764	-67.142	-60.213	-34.764	67.142	60.213	0.000%
6	56.207	-89.523	-32.451	-56.207	89.523	32.451	0.000%
7	56.207	-67.142	-32.451	-56.207	67.142	32.451	0.000%
8	61.303	-89.523	0.000	-61.303	89.523	-0.000	0.000%
9	61.303	-67.142	0.000	-61.303	67.142	-0.000	0.000%
10	54.234	-89.523	31.312	-54.234	89.523	-31.312	0.000%
11	54.234	-67.142	31.312	-54.234	67.142	-31.312	0.000%
12	31.512	-89.523	54.581	-31.512	89.523	-54.581	0.000%
13	31.512	-67.142	54.581	-31.512	67.142	-54.581	0.000%
14	0.000	-89.523	67.670	0.000	89.523	-67.670	0.000%
15	0.000	-67.142	67.670	0.000	67.142	-67.670	0.000%
16	-34.764	-89.523	60.213	34.764	89.523	-60.213	0.000%
17	-34.764	-67.142	60.213	34.764	67.142	-60.213	0.000%
18	-58.959	-89.523	34.040	58.959	89.523	-34.040	0.000%
19	-58.959	-67.142	34.040	58.959	67.142	-34.040	0.000%
20	-61.303	-89.523	0.000	61.303	89.523	-0.000	0.000%
21	-61.303	-67.142	0.000	61.303	67.142	-0.000	0.000%
22	-51.482	-89.523	-29.723	51.482	89.523	29.723	0.000%
23	-51.482	-67.142	-29.723	51.482	67.142	29.723	0.000%
24	-31.512	-89.523	-54.581	31.512	89.523	54.581	0.000%
25	-31.512	-67.142	-54.581	31.512	67.142	54.581	0.000%
26	0.000	-248.347	0.000	0.000	248.347	-0.000	0.000%
27	0.000	-248.347	-19.601	0.000	248.347	19.601	0.000%
28	9.830	-248.347	-17.027	-9.830	248.347	17.027	0.000%
29	16.623	-248.347	-9.598	-16.623	248.347	9.598	0.000%
30	18.577	-248.347	0.000	-18.577	248.347	-0.000	0.000%
31	16.036	-248.347	9.259	-16.036	248.347	-9.259	0.000%
32	9.306	-248.347	16.119	-9.306	248.347	-16.119	0.000%
33	0.000	-248.347	19.230	0.000	248.347	-19.230	0.000%
34	-9.830	-248.347	17.027	9.830	248.347	-17.027	0.000%
35	-16.944	-248.347	9.783	16.944	248.347	-9.783	0.000%
36	-18.577	-248.347	0.000	18.577	248.347	-0.000	0.000%
37	-15.715	-248.347	-9.073	15.715	248.347	9.073	0.000%
38	-9.306	-248.347	-16.119	9.306	248.347	16.119	0.000%
39	0.000	-74.602	-15.627	0.000	74.602	15.627	0.000%
40	7.668	-74.602	-13.281	-7.668	74.602	13.281	0.000%
41	12.397	-74.602	-7.158	-12.397	74.602	7.158	0.000%
42	13.521	-74.602	0.000	-13.521	74.602	-0.000	0.000%
43	11.962	-74.602	6.906	-11.962	74.602	-6.906	0.000%
44	6.951	-74.602	12.039	-6.951	74.602	-12.039	0.000%
45	0.000	-74.602	14.926	0.000	74.602	-14.926	0.000%
46	-7.668	-74.602	13.281	7.668	74.602	-13.281	0.000%
47	-13.004	-74.602	7.508	13.004	74.602	-7.508	0.000%

tnxTower SBA Communications Corporation 8051 Congress Avenue Boca Raton, FL 33487-1307 Phone: (555) 226-9337 FAX: (561) 226-0892	Job	CT00990-S, Scotland	Page	23 of 31
	Project	CT00990-ATT-111119	Date	15:28:12 11/12/19
	Client	AT&T (App. # 122605, v3)	Designed by	Juan M. Valega

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
48	-13.521	-74.602	0.000	13.521	74.602	-0.000	0.000%
49	-11.355	-74.602	-6.556	11.355	74.602	6.556	0.000%
50	-6.951	-74.602	-12.039	6.951	74.602	12.039	0.000%

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	240 - 230	6.237	46	0.3041	0.0434
T2	230 - 210	5.596	46	0.2986	0.0405
T3	210 - 200	4.373	46	0.2549	0.0319
T4	200 - 180	3.855	46	0.2261	0.0270
T5	180 - 160	2.982	46	0.1827	0.0203
T6	160 - 140	2.269	46	0.1501	0.0152
T7	140 - 120	1.683	46	0.1248	0.0123
T8	120 - 100	1.201	46	0.0994	0.0096
T9	100 - 80	0.815	46	0.0794	0.0073
T10	80 - 60	0.508	46	0.0593	0.0049
T11	60 - 40	0.281	46	0.0430	0.0035
T12	40 - 20	0.128	46	0.0268	0.0023
T13	20 - 0	0.032	39	0.0132	0.0011

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
240.00	Flash Beacon Lighting	46	6.237	0.3041	0.0434	Inf
238.00	(1) Low Profile Platform	46	6.108	0.3035	0.0429	Inf
228.00	(1) T-Frame	46	5.468	0.2962	0.0398	116669

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	240 - 230	27.922	16	1.3596	0.1968
T2	230 - 210	25.058	16	1.3354	0.1836
T3	210 - 200	19.585	16	1.1400	0.1447
T4	200 - 180	17.264	16	1.0114	0.1226
T5	180 - 160	13.355	16	0.8176	0.0922
T6	160 - 140	10.165	16	0.6717	0.0689
T7	140 - 120	7.540	16	0.5584	0.0560
T8	120 - 100	5.385	16	0.4449	0.0436
T9	100 - 80	3.655	3	0.3553	0.0329
T10	80 - 60	2.283	3	0.2653	0.0222
T11	60 - 40	1.265	3	0.1926	0.0160

tnxTower SBA Communications Corporation 8051 Congress Avenue Boca Raton, FL 33487-1307 Phone: (555) 226-9337 FAX: (561) 226-0892	Job	CT00990-S, Scotland	Page	24 of 31
	Project	CT00990-ATT-111119	Date	15:28:12 11/12/19
	Client	AT&T (App. # 122605, v3)	Designed by	Juan M. Valega

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T12	40 - 20	0.579	3	0.1200	0.0103
T13	20 - 0	0.144	3	0.0592	0.0050

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
240.00	Flash Beacon Lighting	16	27.922	1.3596	0.1968	410507
238.00	(1) Low Profile Platform	16	27.349	1.3570	0.1944	410507
228.00	(1) T-Frame	16	24.485	1.3246	0.1804	26691

Bolt Design Data

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load Allowable	Allowable Ratio	Criteria
T1	240	Leg	A325N	0.6250	5	3.763	24.851	0.151 ✓	1	Bolt DS
T2	230	Leg	A325N	1.0000	6	11.756	53.014	0.222 ✓	1	Bolt Tension
T3	210	Leg	A325N	1.0000	6	12.280	53.014	0.232 ✓	1	Bolt Tension
		Diagonal	A325N	1.0000	1	7.624	11.682	0.653 ✓	1	Member Block Shear
T4	200	Leg	A325N	1.0000	6	18.588	53.014	0.351 ✓	1	Bolt Tension
		Diagonal	A325N	1.0000	1	6.103	11.682	0.522 ✓	1	Member Block Shear
T5	180	Leg	A325N	1.0000	6	23.683	53.014	0.447 ✓	1	Bolt Tension
		Diagonal	A325N	1.0000	1	6.159	11.682	0.527 ✓	1	Member Block Shear
T6	160	Leg	A325N	1.2500	6	28.737	82.835	0.347 ✓	1	Bolt Tension
		Diagonal	A325N	1.2500	1	6.601	20.303	0.325 ✓	1	Member Block Shear
T7	140	Leg	A325N	1.2500	6	33.630	82.835	0.406 ✓	1	Bolt Tension
		Diagonal	A325N	1.2500	1	7.389	20.303	0.364 ✓	1	Member Block Shear
T8	120	Leg	A325N	1.2500	6	38.522	82.835	0.465 ✓	1	Bolt Tension
		Diagonal	A325N	1.2500	1	8.021	23.701	0.338 ✓	1	Member Block Shear
T9	100	Leg	A325N	1.2500	6	43.533	82.835	0.526 ✓	1	Bolt Tension
		Diagonal	A325N	1.2500	1	9.380	17.672	0.531 ✓	1	Member Block Shear
T10	80	Leg	A325N	1.2500	12	23.253	82.835	0.281 ✓	1	Bolt Tension
		Diagonal	A325N	1.0000	2	6.618	35.525	0.186 ✓	1	Member Block Shear
T11	60	Leg	A325N	1.2500	12	25.847	82.835	0.312 ✓	1	Bolt Tension
		Diagonal	A325N	1.0000	2	6.625	35.525	0.186 ✓	1	Member Block Shear

<p>tnxTower</p> <p>SBA Communications Corporation 8051 Congress Avenue Boca Raton, FL 33487-1307 Phone: (555) 226-9337 FAX: (561) 226-0892</p>	Job CT00990-S, Scotland	Page 25 of 31
	Project CT00990-ATT-111119	Date 15:28:12 11/12/19
	Client AT&T (App. # 122605, v3)	Designed by Juan M. Valega

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load Allowable	Allowable Ratio	Criteria
T12	40	Leg	A325N	1.2500	12	28.327	82.835	0.342 ✓	1	Bolt Tension
		Diagonal	A325N	1.0000	2	7.183	35.525	0.202 ✓	1	Member Block Shear
T13	20	Diagonal	A325N	1.0000	2	8.223	35.525	0.231 ✓	1	Member Block Shear

Compression Checks

Leg Design Data (Compression)

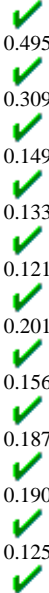
Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	240 - 230	1 3/4	10.00	2.17	59.4 K=1.00	2.4053	-16.074	83.605	0.192 ¹ ✓
T2	230 - 210	2	20.00	2.38	57.0 K=1.00	3.1416	-72.623	111.473	0.651 ¹ ✓
T3	210 - 200	#12 - 1.25" - 1.00" conn. (Pirod 105244)	10.02	10.02	45.4 K=1.00	3.6816	-79.208	142.493	0.556 ¹ ✓
T4	200 - 180	#12 - 1.50" - 1.00" conn. (Pirod 105217)	20.03	10.02	37.8 K=1.00	5.3014	-120.127	214.859	0.559 ¹ ✓
T5	180 - 160	#12 - 1.75" - 1.00" conn. (Pirod 105218)	20.03	10.02	32.4 K=1.00	7.2158	-153.120	300.681	0.509 ¹ ✓
T6	160 - 140	#12 - 2.00" - 1.25" conn. (Pirod 105219)	20.03	10.02	28.4 K=1.00	9.4248	-187.491	399.868	0.469 ¹ ✓
T7	140 - 120	#12 - 2.00" - 1.25" conn. (Pirod 105219)	20.03	10.02	28.4 K=1.00	9.4248	-221.377	399.868	0.554 ¹ ✓
T8	120 - 100	#12 - 2.25" - 1.25" conn. (Pirod 105220)	20.03	10.02	25.2 K=1.00	11.9282	-256.073	512.375	0.500 ¹ ✓
T9	100 - 80	#12 - 2.25" - 1.25" conn. (Pirod 105220)	20.03	10.02	25.2 K=1.00	11.9282	-291.963	512.375	0.570 ¹ ✓
T10	80 - 60	#18 - 2.50" (Pirod 112743)	20.03	20.03	32.6 K=1.00	14.7262	-314.327	613.145	0.513 ¹ ✓
T11	60 - 40	#18 - 2.50" (Pirod 112743)	20.03	20.03	32.6 K=1.00	14.7262	-353.368	613.145	0.576 ¹ ✓
T12	40 - 20	#18 - 2.75" (Pirod 112744)	20.03	20.03	32.6 K=1.00	17.8187	-391.835	741.993	0.528 ¹ ✓
T13	20 - 0	#18 - 2.75" (Pirod 112739) BASE ONLY	20.03	20.03	32.6 K=1.00	17.8187	-422.548	741.993	0.569 ¹ ✓

¹ $P_u / \phi P_n$ controls

Truss-Leg Diagonal Data

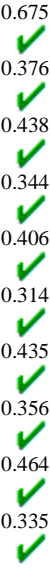
<p style="text-align: center;">tnxTower</p> <p style="text-align: center;">SBA Communications Corporation 8051 Congress Avenue Boca Raton, FL 33487-1307 Phone: (555) 226-9337 FAX: (561) 226-0892</p>	<p>Job</p> <p style="text-align: center;">CT00990-S, Scotland</p>	<p>Page</p> <p style="text-align: center;">26 of 31</p>
	<p>Project</p> <p style="text-align: center;">CT00990-ATT-111119</p>	<p>Date</p> <p style="text-align: center;">15:28:12 11/12/19</p>
	<p>Client</p> <p style="text-align: center;">AT&T (App. # 122605, v3)</p>	<p>Designed by</p> <p style="text-align: center;">Juan M. Valega</p>

Section No.	Elevation ft	Diagonal Size	L_d ft	Kl/r	ϕP_n K	A in ²	V_u K	ϕV_n K	Stress Ratio
T3	210 - 200	0.5	1.48	121.0	165.670	0.1963	1.496	3.292	0.455
T4	200 - 180	0.5	1.47	120.0	238.565	0.1963	1.652	3.335	0.495
T5	180 - 160	0.5	1.46	119.0	324.713	0.1963	1.042	3.378	0.309
T6	160 - 140	0.625	1.45	94.4	424.115	0.3068	1.039	6.958	0.149
T7	140 - 120	0.625	1.45	94.4	424.115	0.3068	0.925	6.958	0.133
T8	120 - 100	0.625	1.43	93.6	536.771	0.3068	0.847	7.011	0.121
T9	100 - 80	0.625	1.43	93.6	536.771	0.3068	1.403	7.011	0.201
T10	80 - 60	0.75	1.76	112.5	662.680	0.4418	1.662	10.686	0.156
T11	60 - 40	0.75	1.76	112.5	662.680	0.4418	1.993	10.686	0.187
T12	40 - 20	0.75	1.74	111.5	801.842	0.4418	2.061	10.858	0.190
T13	20 - 0	0.75	1.74	111.5	801.842	0.4418	1.354	10.858	0.125



Diagonal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in ²	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	240 - 230	3/4	4.99	2.42	139.2 K=0.90	0.4418	-3.480	5.152	0.675 ¹
T2	230 - 210	1	5.50	2.68	115.6 K=0.90	0.7854	-4.995	13.276	0.376 ¹
T3	210 - 200	L3x3x3/16	9.89	5.19	108.3 K=1.04	1.0900	-8.232	18.783	0.438 ¹
T4	200 - 180	L3x3x3/16	10.80	5.55	113.9 K=1.02	1.0900	-6.077	17.648	0.344 ¹
T5	180 - 160	L3x3x3/16	11.98	6.10	122.8 K=1.00	1.0900	-6.436	15.854	0.406 ¹
T6	160 - 140	L3x3x5/16	13.17	6.62	134.9 K=1.00	1.7800	-6.924	22.082	0.314 ¹
T7	140 - 120	L3x3x5/16	14.68	7.36	149.9 K=1.00	1.7800	-7.787	17.884	0.435 ¹
T8	120 - 100	L3 1/2x3 1/2x5/16	16.29	8.16	141.8 K=1.00	2.0900	-8.362	23.470	0.356 ¹
T9	100 - 80	L3 1/2x3 1/2x5/16	17.12	8.62	150.0 K=1.00	2.0900	-9.745	20.998	0.464 ¹
T10	80 - 60	2L3 1/2x3 1/2x5/16x3/8	25.08	12.91	148.2 K=1.00	4.1800	-14.402	42.976	0.335 ¹
T11	60 - 40	2L 'a' > 71.3596 in - 193 2L3 1/2x3 1/2x5/16x3/8	26.44	13.56	155.7	4.1800	-14.121	38.971	0.362 ¹



tnxTower SBA Communications Corporation 8051 Congress Avenue Boca Raton, FL 33487-1307 Phone: (555) 226-9337 FAX: (561) 226-0892	Job	CT00990-S, Scotland	Page	27 of 31
	Project	CT00990-ATT-111119	Date	15:28:12 11/12/19
	Client	AT&T (App. # 122605, v3)	Designed by	Juan M. Valega

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
					K=1.00				✓
T12	40 - 20	2L 'a' > 74.1952 in - 202 2L3 1/2x3 1/2x5/16x3/8	27.87	14.25	163.6 K=1.00	4.1800	-13.430	35.272	0.381 ¹ ✓
T13	20 - 0	2L 'a' > 77.2318 in - 212 2L3 1/2x3 1/2x5/16x3/8	29.37	14.98	172.0 K=1.00	4.1800	-18.255	31.912	0.572 ¹ ✓
		2L 'a' > 80.4361 in - 220							✓

¹ P_u / φP_n controls

Top Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	240 - 230	1	4.50	4.35	146.3 K=0.70	0.7854	-0.071	8.290	0.009 ¹ ✓
T2	230 - 210	1	4.52	4.35	146.3 K=0.70	0.7854	-1.679	8.294	0.202 ¹ ✓

¹ P_u / φP_n controls

Bottom Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	240 - 230	1	4.50	4.35	146.3 K=0.70	0.7854	-1.712	8.290	0.207 ¹ ✓
T2	230 - 210	1	4.99	4.83	162.2 K=0.70	0.7854	-1.825	6.742	0.271 ¹ ✓

¹ P_u / φP_n controls

Tension Checks

Leg Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
-------------	-----------------	------	---------	----------------------	------	----------------------	---------------------	----------------------	---------------------------------

<p style="text-align: center;">tnxTower</p> <p style="text-align: center;">SBA Communications Corporation 8051 Congress Avenue Boca Raton, FL 33487-1307 Phone: (555) 226-9337 FAX: (561) 226-0892</p>	<p>Job</p> <p style="text-align: center;">CT00990-S, Scotland</p>	<p>Page</p> <p style="text-align: center;">28 of 31</p>
	<p>Project</p> <p style="text-align: center;">CT00990-ATT-111119</p>	<p>Date</p> <p style="text-align: center;">15:28:12 11/12/19</p>
	<p>Client</p> <p style="text-align: center;">AT&T (App. # 122605, v3)</p>	<p>Designed by</p> <p style="text-align: center;">Juan M. Valega</p>

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	240 - 230	1 3/4	10.00	0.33	9.1	1.7942	15.598	87.466	0.178 ^{1 #}
T2	230 - 210	2	20.00	0.21	5.0	3.1416	70.537	141.372	0.499 ¹
T3	210 - 200	#12 - 1.25" - 1.00" conn. (Pirod 105244)	10.02	10.02	45.4	3.6816	73.679	165.670	0.445 ¹
T4	200 - 180	#12 - 1.50" - 1.00" conn. (Pirod 105217)	20.03	10.02	37.8	5.3014	111.527	238.565	0.467 ¹
T5	180 - 160	#12 - 1.75" - 1.00" conn. (Pirod 105218)	20.03	10.02	32.4	7.2158	142.098	324.713	0.438 ¹
T6	160 - 140	#12 - 2.00" - 1.25" conn. (Pirod 105219)	20.03	10.02	28.4	9.4248	172.420	424.115	0.407 ¹
T7	140 - 120	#12 - 2.00" - 1.25" conn. (Pirod 105219)	20.03	10.02	28.4	9.4248	201.782	424.115	0.476 ¹
T8	120 - 100	#12 - 2.25" - 1.25" conn. (Pirod 105220)	20.03	10.02	25.2	11.9282	231.132	536.771	0.431 ¹
T9	100 - 80	#12 - 2.25" - 1.25" conn. (Pirod 105220)	20.03	10.02	25.2	11.9282	261.197	536.771	0.487 ¹
T10	80 - 60	#18 - 2.50" (Pirod 112743)	20.03	20.03	32.6	14.7262	279.032	662.680	0.421 ¹
T11	60 - 40	#18 - 2.50" (Pirod 112743)	20.03	20.03	32.6	14.7262	310.163	662.680	0.468 ¹
T12	40 - 20	#18 - 2.75" (Pirod 112744)	20.03	20.03	32.6	17.8187	339.923	801.842	0.424 ¹
T13	20 - 0	#18 - 2.75" (Pirod 112739) BASE ONLY	20.03	20.03	32.6	17.8187	364.033	801.842	0.454 ¹

¹ P_u / φP_n controls

[#] Based on net area of leg in section below

Truss-Leg Diagonal Data

Section No.	Elevation ft	Diagonal Size	L _d ft	Kl/r	φP _n K	A in ²	V _u K	φV _n K	Stress Ratio
T3	210 - 200	0.5	1.48	121.0	165.670	0.1963	1.496	3.292	0.455
T4	200 - 180	0.5	1.47	120.0	238.565	0.1963	1.652	3.335	0.495
T5	180 - 160	0.5	1.46	119.0	324.713	0.1963	1.042	3.378	0.309
T6	160 - 140	0.625	1.45	94.4	424.115	0.3068	1.039	6.958	0.149
T7	140 - 120	0.625	1.45	94.4	424.115	0.3068	0.925	6.958	0.133
T8	120 - 100	0.625	1.43	93.6	536.771	0.3068	0.847	7.011	0.121
T9	100 - 80	0.625	1.43	93.6	536.771	0.3068	1.403	7.011	0.201
T10	80 - 60	0.75	1.76	112.5	662.680	0.4418	1.662	10.686	0.156

tnxTower SBA Communications Corporation 8051 Congress Avenue Boca Raton, FL 33487-1307 Phone: (555) 226-9337 FAX: (561) 226-0892	Job	CT00990-S, Scotland	Page	29 of 31
	Project	CT00990-ATT-111119	Date	15:28:12 11/12/19
	Client	AT&T (App. # 122605, v3)	Designed by	Juan M. Valega

Section No.	Elevation ft	Diagonal Size	L_d ft	Kl/r	ϕP_n K	A in ²	V_u K	ϕV_n K	Stress Ratio
T11	60 - 40	0.75	1.76	112.5	662.680	0.4418	1.993	10.686	0.187 ✓
T12	40 - 20	0.75	1.74	111.5	801.842	0.4418	2.061	10.858	0.190 ✓
T13	20 - 0	0.75	1.74	111.5	801.842	0.4418	1.354	10.858	0.125 ✓

Diagonal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in ²	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	240 - 230	3/4	4.99	2.42	154.6	0.4418	3.463	19.880	0.174 ¹ ✓
T2	230 - 210	1	5.50	2.68	128.4	0.7854	4.975	35.343	0.141 ¹ ✓
T3	210 - 200	L3x3x3/16	9.89	5.19	69.0	0.6593	7.624	28.679	0.266 ¹ ✓
T4	200 - 180	L3x3x3/16	10.31	5.34	70.9	0.6593	6.103	28.679	0.213 ¹ ✓
T5	180 - 160	L3x3x3/16	11.98	6.10	80.6	0.6593	6.159	28.679	0.215 ¹ ✓
T6	160 - 140	L3x3x5/16	13.17	6.62	89.5	1.0127	6.601	44.054	0.150 ¹ ✓
T7	140 - 120	L3x3x5/16	14.68	7.36	99.0	1.0127	7.389	44.054	0.168 ¹ ✓
T8	120 - 100	L3 1/2x3 1/2x5/16	16.29	8.16	93.4	1.2452	8.021	54.168	0.148 ¹ ✓
T9	100 - 80	L3 1/2x3 1/2x5/16	17.97	9.05	102.7	1.2452	9.380	54.168	0.173 ¹ ✓
T10	80 - 60	2L3 1/2x3 1/2x5/16x3/8	25.08	12.91	146.7	2.6077	13.236	113.433	0.117 ¹ ✓
T11	60 - 40	2L 'a' > 71.3596 in - 193 2L3 1/2x3 1/2x5/16x3/8	26.44	13.56	153.9	2.6077	13.250	113.433	0.117 ¹ ✓
T12	40 - 20	2L 'a' > 74.1952 in - 202 2L3 1/2x3 1/2x5/16x3/8	27.87	14.25	161.6	2.6077	14.366	113.433	0.127 ¹ ✓
T13	20 - 0	2L 'a' > 77.2318 in - 212 2L3 1/2x3 1/2x5/16x3/8	29.37	14.98	169.7	2.6077	16.445	113.433	0.145 ¹ ✓
		2L 'a' > 80.4361 in - 220							✓

¹ $P_u / \phi P_n$ controls

Top Girt Design Data (Tension)

<p style="text-align: center;">tnxTower</p> <p style="text-align: center;">SBA Communications Corporation 8051 Congress Avenue Boca Raton, FL 33487-1307 Phone: (555) 226-9337 FAX: (561) 226-0892</p>	<p>Job</p> <p style="text-align: center;">CT00990-S, Scotland</p>	<p>Page</p> <p style="text-align: center;">30 of 31</p>
	<p>Project</p> <p style="text-align: center;">CT00990-ATT-111119</p>	<p>Date</p> <p style="text-align: center;">15:28:12 11/12/19</p>
	<p>Client</p> <p style="text-align: center;">AT&T (App. # 122605, v3)</p>	<p>Designed by</p> <p style="text-align: center;">Juan M. Valega</p>

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	240 - 230	1	4.50	4.35	209.0	0.7854	0.055	35.343	0.002 ¹
T2	230 - 210	1	4.52	4.35	208.9	0.7854	1.673	35.343	0.047 ¹

¹ P_u / φP_n controls

Bottom Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	240 - 230	1	4.50	4.35	209.0	0.7854	1.719	35.343	0.049 ¹
T2	230 - 210	1	4.99	4.83	231.8	0.7854	1.949	35.343	0.055 ¹

¹ P_u / φP_n controls

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	φP _{allow} K	% Capacity	Pass Fail
T1	240 - 230	Leg	1 3/4	1	-16.074	83.605	19.2	Pass
T2	230 - 210	Leg	2	34	-72.623	111.473	65.1	Pass
T3	210 - 200	Leg	#12 - 1.25" - 1.00" conn. (Pirod 105244)	91	-79.208	142.493	55.6	Pass
T4	200 - 180	Leg	#12 - 1.50" - 1.00" conn. (Pirod 105217)	100	-120.127	214.859	55.9	Pass
T5	180 - 160	Leg	#12 - 1.75" - 1.00" conn. (Pirod 105218)	117	-153.120	300.681	50.9	Pass
T6	160 - 140	Leg	#12 - 2.00" - 1.25" conn. (Pirod 105219)	132	-187.491	399.868	46.9	Pass
T7	140 - 120	Leg	#12 - 2.00" - 1.25" conn. (Pirod 105219)	147	-221.377	399.868	55.4	Pass
T8	120 - 100	Leg	#12 - 2.25" - 1.25" conn. (Pirod 105220)	162	-256.073	512.375	50.0	Pass
T9	100 - 80	Leg	#12 - 2.25" - 1.25" conn. (Pirod 105220)	177	-291.963	512.375	57.0	Pass
T10	80 - 60	Leg	#18 - 2.50" (Pirod 112743)	192	-314.327	613.145	51.3	Pass
T11	60 - 40	Leg	#18 - 2.50" (Pirod 112743)	201	-353.368	613.145	57.6	Pass
T12	40 - 20	Leg	#18 - 2.75" (Pirod 112744)	210	-391.835	741.993	52.8	Pass
T13	20 - 0	Leg	#18 - 2.75" (Pirod 112739)	219	-422.548	741.993	56.9	Pass
BASE ONLY								
T1	240 - 230	Diagonal	3/4	10	-3.480	5.152	67.5	Pass
T2	230 - 210	Diagonal	1	44	-4.995	13.276	37.6	Pass
T3	210 - 200	Diagonal	L3x3x3/16	94	-8.232	18.783	43.8	Pass
T4	200 - 180	Diagonal	L3x3x3/16	104	-6.077	17.648	34.4	Pass
							65.3 (b)	
							52.2 (b)	

tnxTower SBA Communications Corporation 8051 Congress Avenue Boca Raton, FL 33487-1307 Phone: (555) 226-9337 FAX: (561) 226-0892	Job	CT00990-S, Scotland	Page	31 of 31
	Project	CT00990-ATT-111119	Date	15:28:12 11/12/19
	Client	AT&T (App. # 122605, v3)	Designed by	Juan M. Valega

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail	
T5	180 - 160	Diagonal	L3x3x3/16	118	-6.436	15.854	40.6	Pass	
T6	160 - 140	Diagonal	L3x3x5/16	133	-6.924	22.082	52.7 (b) 31.4	Pass	
T7	140 - 120	Diagonal	L3x3x5/16	148	-7.787	17.884	32.5 (b) 43.5	Pass	
T8	120 - 100	Diagonal	L3 1/2x3 1/2x5/16	163	-8.362	23.470	35.6	Pass	
T9	100 - 80	Diagonal	L3 1/2x3 1/2x5/16	184	-9.745	20.998	46.4	Pass	
T10	80 - 60	Diagonal	2L3 1/2x3 1/2x5/16x3/8	193	-14.402	42.976	53.1 (b) 33.5	Pass	
T11	60 - 40	Diagonal	2L3 1/2x3 1/2x5/16x3/8	202	-14.121	38.971	36.2	Pass	
T12	40 - 20	Diagonal	2L3 1/2x3 1/2x5/16x3/8	212	-13.430	35.272	38.1	Pass	
T13	20 - 0	Diagonal	2L3 1/2x3 1/2x5/16x3/8	220	-18.255	31.912	57.2	Pass	
T1	240 - 230	Top Girt	1	5	-0.071	8.290	0.9	Pass	
T2	230 - 210	Top Girt	1	38	-1.679	8.294	20.2	Pass	
T1	240 - 230	Bottom Girt	1	8	-1.712	8.290	20.7	Pass	
T2	230 - 210	Bottom Girt	1	41	-1.825	6.742	27.1	Pass	
							Summary		
							Leg (T2)	65.1	Pass
							Diagonal (T1)	67.5	Pass
							Top Girt (T2)	20.2	Pass
							Bottom Girt (T2)	27.1	Pass
							Bolt Checks	65.3	Pass
							RATING =	67.5	Pass

Self Support Anchor Bolt Check**Project Information**

SBA Project # : CT00990-ATT-111119
 Code : G

Leg Reaction

Anchor bolt detail type: C
 Uplift(kips): 380
 Shear (kips) : 42

Strength Reduction Factors

Tension : 0.8
 Shear : 0.75
 Flexure : 0.9


Bolt Information

Quantity : 6
 Diameter (in) : 2
 Assumed ungrouted gap (in) : 0
 Bolt Fy (ksi) : 105
 Bolt Fu (AISC Table 2-6) (ksi): 150
 Anchor bolt detail factor: 0.55
 # of threads (AISC Table 7-17) : 4.5

Safety Factors

Factor (Ω) : 2

Bolt Capacity : 25.4% Pass

	Mat Foundation Design for Self Supporting Tower			Date
				11/11/2019
	Customer Name:	AT&T (App. #122605, v3)	EIA/TIA Standard:	EIA-222-G
	Site Name:	Scotland	Structure Height (Ft.):	240
	Site Number:	CT00990-S	Engineer Name:	N. Ahuia
Engr. Number:		Engineer Login ID:		

Foundation Info Obtained from:

Analysis or Design?

Number of Tower Legs:

Base Reactions (Factored):

(1). Individual Leg:

Axial Load (Kips):	444.0	Uplift Force (Kips):	380.0
Shear Force (Kips):	48.0		

(2). Tower Base:

Total Vertical Load (Kips):	90.0	Total Shear Force (Kips):	71.0
Moment (Kips-ft):	9332.0		

Foundation Geometries:

Leg distance (Center-to-Center ft.):	26.0	Mods required -Yes/No ?:	No
Diameter of Pier (ft.):	Square 4.5	Pier Height A. G. (ft.):	0.50
Tower center to mat center (ft):	3.75	Depth of Base BG (ft.):	7.0
Length of Pad (ft.):	34	Width of Pad (ft.):	34
Thickness of Pad (ft):	2.50		

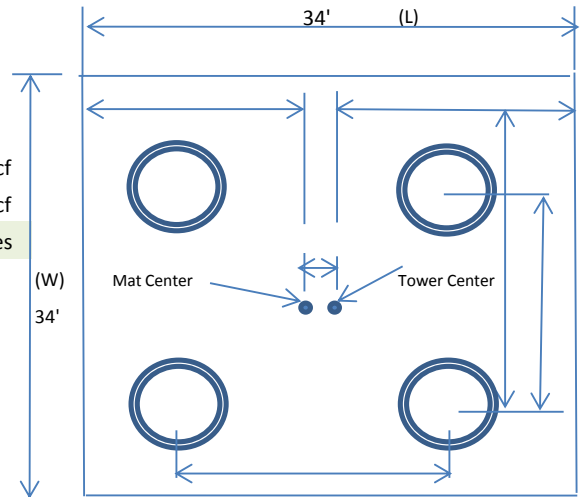
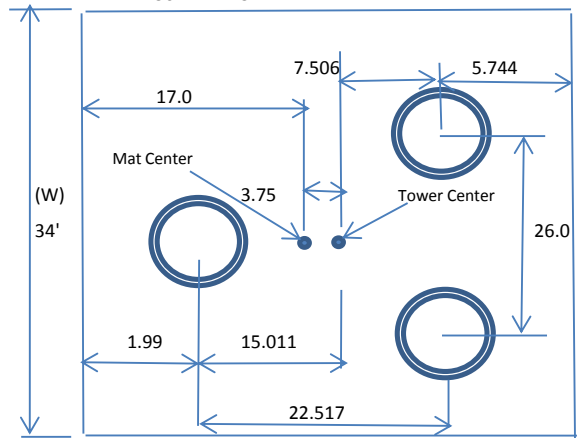
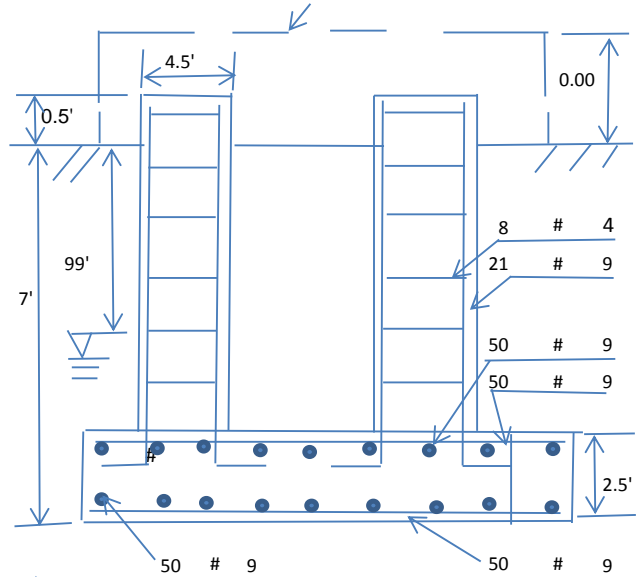
Material Properties and Reabr Info:

Concrete Strength (psi):	4000	Steel Elastic Modulus:	29000	ksi
Vertical bar yield (ksi):	60	Tie steel yield (ksi):	60	
Vertical Rebar Size #:	9	Tie / Stirrup Size #:	4	
Qty. of Vertical Rebars:	21	Tie Spacing (in):	12.0	
Pad Rebar Yield (Ksi):	60	Pad Steel Rebar Size (#):	9	
Concrete Cover (in.):	3	Unit Weight of Concrete:	150.0	pcf
Rebar at the bottom of the concrete pad:				
Qty. of Rebar in Pad (L):	50	Qty. of Rebar in Pad (W):	50	
Rebar at the top of the concrete pad:				
Qty. of Rebar in Pad (L):	50	Qty. of Rebar in Pad (W):	50	

Soil Design Parameters:

Soil Unit Weight (pcf):	125.0	Soil Buoyant Weight:	50.0	Pcf
Water Table B.G.S. (ft):	99.0	Unit Weight of Water:	62.4	pcf
Ultimate Bearing Pressure (psf):	16000	Consider ties in concrete shear strength:	Yes	

Drawings/Calculations
Analysis
3 Legs



Allowable overstress %: 5.00%
 Apply 1.35 for e/w per G/H: 1

TES Engr. Number: 0

Page 2/2 Date: 11/11/2019

Foundation Analysis and Design:	Uplift Strength Reduction Factor:	0.75	Compression Strength Reduction Factor:	0.75
Total Dry Soil Volume (cu. Ft.):	4928.63	Total Dry Soil Weight (Kips):	616.08	
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	0.00	
Total Effective Soil Weight (Kips):	616.08	Weight from the Concrete Block at Top (K):	0.00	
Total Dry Concrete Volume (cu. Ft.):	3193.75	Total Dry Concrete Weight (Kips):	479.06	
Total Buoyant Concrete Volume (cu. Ft.):	0.00	Total Buoyant Concrete Weight (Kips):	0.00	
Total Effective Concrete Weight (Kips):	479.06	Total Vertical Load on Base (Kips):	1185.14	

Check Soil Capacities:

Calculated Maxium Net Soil Pressure under the base (psf):	2702.98	<	Allowable Factored Soil Bearing (psf):	12000	0.23	OK!
Allowable Foundation Overturning Resistance (kips-ft.):	18285.7	>	Design Factored Momont (kips-ft):	10130	0.55	OK!
Factor of Safety Against Overturning (O. R. Moment/Design Moment):	1.81					OK!

Check the capacities of Reinforcing Concrete:

Strength reduction factor (Flexure and axial tension):	0.90	Strength reduction factor (Shear):	0.75			
Strength reduction factor (Axial compression):	0.65	Wind Load Factor on Concrete Design:	1.00			
				Load/ Capacity Ratio		
(1) Concrete Pier:						
Vertical Steel Rebar Area (sq. in./each):	1.00	Tie / Stirrup Area (sq. in./each):	0.20			
Calculated Moment Capacity (Mn,Kips-Ft):	1601.5	>	Design Factored Moment (Mu, Kips-Ft)	240.0	0.15	OK!
Calculated Shear Capacity (Kips):	266.7	>	Design Factored Shear (Kips):	48.0	0.18	OK!
Calculated Tension Capacity (Tn, Kips):	1134.0	>	Design Factored Tension (Tu Kips):	380.0	0.34	OK!
Calculated Compression Capacity (Pn, Kips):	5118.4	>	Design Factored Axial Load (Pu Kips):	444.0	0.09	OK!
Moment & Tension Strength Combination:	0.15	OK!	Check Tie Spacing (Design/Req'd):	1		OK!
Pier Reinforcement Ratio:	0.007		Reinforcement Ratio is satisfied per ACI			

(2).Concrete Pad:

One-Way Design Shear Capacity (L or W Direction, Kips):	1023.3	>	One-Way Factored Shear (L/W-Dir Kips	183.9	0.18	OK!
One-Way Design Shear Capacity (Diagonal Dir., Kips):	852.0	>	One-Way Factored Shear (Dia. Dir, Kips	322.1	0.38	OK!
Lower Steel Pad Reinforcement Ratio (L or W-Direct.):	0.0046		Lower Steel Reinf. Ratio (Dia. Dir.):	0.0044		
Lower Steel Pad Moment Capacity (L or W-Dir. Kips-ft):	5705.1	>	Moment at Bottom (L-Direct. K-Ft):	550.2	0.10	OK!
Lower Steel Pad Moment Capacity (Dia. Direction,K-ft):	5292.2	>	Moment at Bottom (Dia. Dir. K-Ft):	2442.3	0.46	OK!
Upper Steel Pad Reinforcement Ratio (L or W -Direction):	0.0046		Upper Steel Reinf. Ratio (Dia. Dir.):	0.0044		
Upper Steel Pad Moment Capacity (L or W-Dir., Kips-ft):	5705.1	>	Moment at the top (L-Dir Kips-Ft):	218.4	0.04	OK!
Upper Steel Pad Moment Capacity (Dia. Direction, K-ft):	5292.2	>	Moment at the top (Dia. Dir., K-Ft):	795.1	0.15	OK!
Punching Failure Capacity (Kips):	1313.5	>	Punch. Failure Factored Shear (K):	444.0	0.34	OK!

Post Mod Mount Analysis Report

October 2, 2019

Site Name	Scotland-Huntington Road
FA Number	10050915
Smartlink Site Number	CTL01242
PACE Number	MRCTB041459 / MRCTB041363 / MRCTB041579 MRCTB041512 / MRCTB041755
PTN Number	2051A0Q8RZ / 2051A0QAJ0 / 2051A0Q7X8 2051A0QANW / 2051A0Q8G5
Infinigy Job Number	1106-A0001-B
Client	Smartlink
Carrier	AT&T Mobility
Site Location	165 Huntington Road Scotland, CT 6264 Windham County 41.6960061 N NAD83 72.0965881 W NAD83
Mount Centerline EL.	238.0 ft
Mount Type	Platform
Structural Usage Ratio	94.4%
Overall Result	Pass
Note	See appended documents for mount modifications.

Upon reviewing the results of this analysis, it is our opinion that the post modification mount meets the specified TIA and ASCE code requirements. The mounts and connections for the proposed carrier are therefore deemed adequate to support the final loading configuration as listed in this report.



Thomas Marr
Project Engineer I

Contents

Introduction.....	3
Supporting Documentation.....	3
Analysis Code Requirements.....	3
Conclusion.....	3
Final Configuration Loading.....	4
Mount Usages.....	4
Mount Connections Usages.....	4
Assumptions and Limitations.....	5
Calculations.....	Appended

Introduction

Infinigy Engineering has been requested to perform a post modification mount analysis on the existing AT&T Mobility mounts. All referenced supporting documents have been obtained from the client and are assumed to be accurate and applicable to this site. The mount was analyzed using RISA-3D Version 17.0.4 analysis software.

Supporting Documentation

RFDS	RFDS ID #3167716, dated May 30, 2019
Construction Drawings	Hudson Design Group, dated September 17, 2012
Mount Specifications	Pirod Assembly Drawing #135941-B, October 22, 1998
Site Photos	Provided by Infinigy, dated June 26, 2019
Previous Mount Analysis	Infinigy Engineering Job #1106-A0001-B, dated September 20, 2019

Analysis Code Requirements

Wind Speed	129 mph (3-Second Gust)
Wind Speed w/ Ice	50 mph (3 Second Gust) w/ 1.275" Ice
TIA Revision	ANSI/TIA-222-H
Adopted IBC	2015 IBC / 2018 Connecticut Building Code
Structure Class	II
Exposure Category	C
Topographic Category	1
Spectral Response	$S_s = 0.172$ g, $S_1 = 0.062$ g
Site Class	D - Stiff Soil
HMSL	359 ft.

Conclusion

Upon reviewing the results of this analysis, it is our opinion that the post modification mount meets the specified TIA and ASCE code requirements. The mount and connections for the proposed carrier are therefore deemed adequate to support the existing and proposed loading as listed in this report.

If you have any questions, require additional information, or actual conditions differ from those as detailed in this report please contact me via the information below:

Thomas Marr
 Project Engineer I | **INFINIGY**
 1033 Watervliet Shaker Road, Albany, NY 12205
 (O) (518) 690-0790
 Structural@infinigy.com | www.infinigy.com
 CTL01242_Scotland-Huntington Road

Final Configuration Loading

Mount CL (ft)	Vert. O/S (ft)	Rad. HT (ft)	Horiz. O/S (ft) ⁽¹⁾	Qty	Appurtenance ⁽²⁾	Carrier
238.0	0.0	238.0	15.5	3	POWERWAVE 7770.00	AT&T
			0.6, 4.2	6	CCI DMP65R-BU8DA	
			15.5	6	POWERWAVE LGP21401	
			4.2	3	ERICSSON RRUS 4478 B14	
			0.6	3	ERICSSON 4449 B5/B12	
			0.6	3	ERICSSON 8843 B2/B66A	
			--	3	RAYCAP DC6-48-60-18-8F	

(1) Horizontal Offset is defined as the distance from the left most edge of the mount face horizontal when viewed facing the tower

(2) Raycap assumed to be installed directly on tower

Mount Usages

Horizontals	80.2%	Pass
Standoffs	94.4%	Pass
Mount Pipes	68.9%	Pass
Bracing	80.3%	Pass
Bolts	9.0%	Pass
Max Usage	94.4%	Pass

Mount Connection Usages

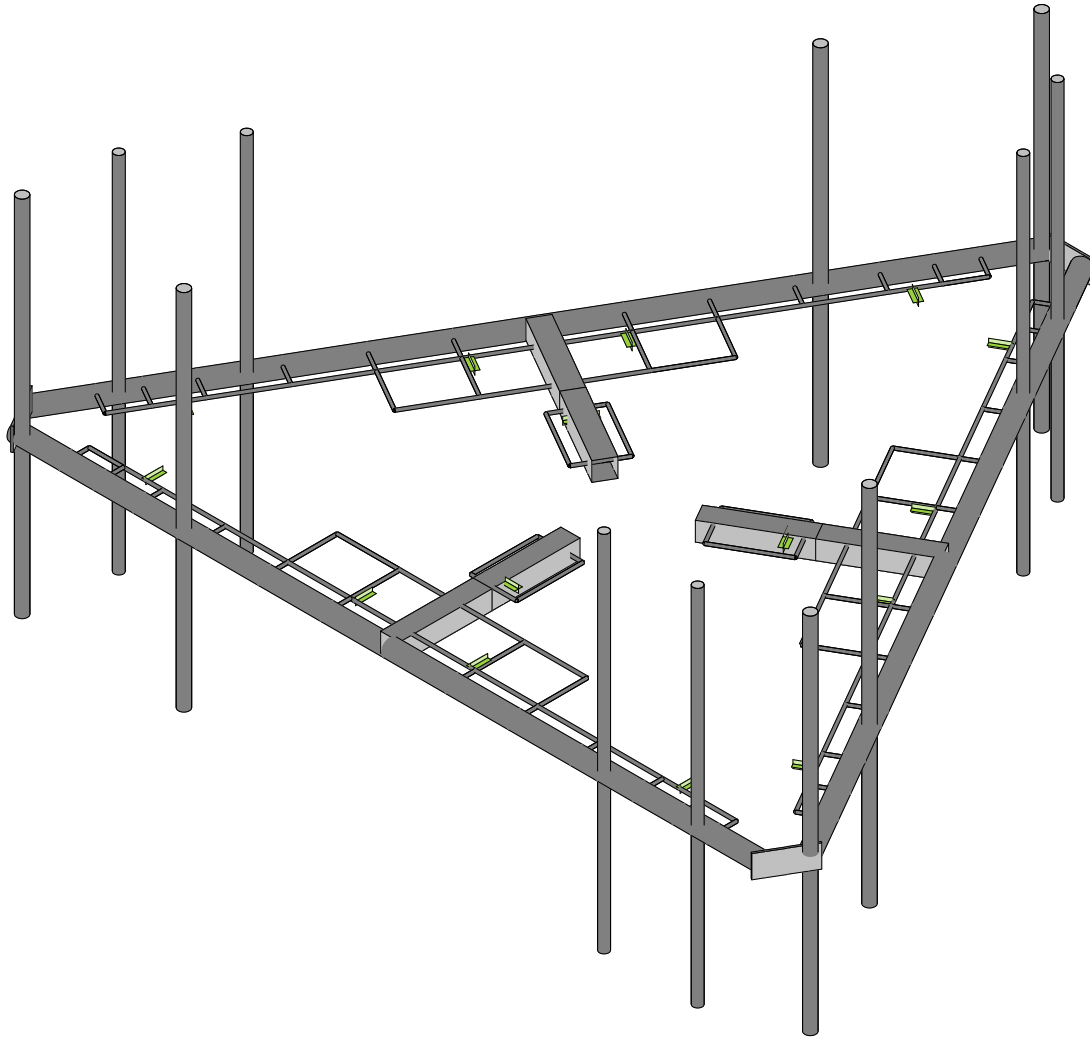
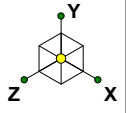
Reaction Data	Design Capacity*	Analysis Reactions	Results
Max Tension (lbs.)	40680.0	2188.53	5.4%
Max Shear (lbs.)	24850.0	2244.62	9.0%
Unity Check	-	-	1.1%
*Assumed (4) 0.625" A307 Bolts. Contractor to field verify prior to proposed installation.			

Assumptions and Limitations

Our structural calculations are completed assuming all information provided to Infinigy Engineering is accurate and applicable to this site. For the purposes of calculations, we assume an overall structure condition of “like new” and all members and connections to be free of corrosion and/or structural defects. The structure owner and/or contractor shall verify the structure’s condition prior to installation of any proposed equipment. If actual conditions differ from those described in this report Infinigy Engineering should be notified immediately to complete a revised evaluation.

Our evaluation is completed using standard TIA, AISC, ACI, and ASCE methods and procedures. Our structural results are proprietary and should not be used by others as their own. Infinigy Engineering is not responsible for decisions made by others that are or are not based on our supplied assumptions and conclusions.

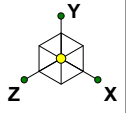
This report is an evaluation of the proposed carriers mount structure only and does not reflect adequacy of the existing tower, other mounts, or coax mounting attachments. These elements are assumed to be adequate for the purposes of this analysis and are assumed to have been installed per their manufacturer requirements.



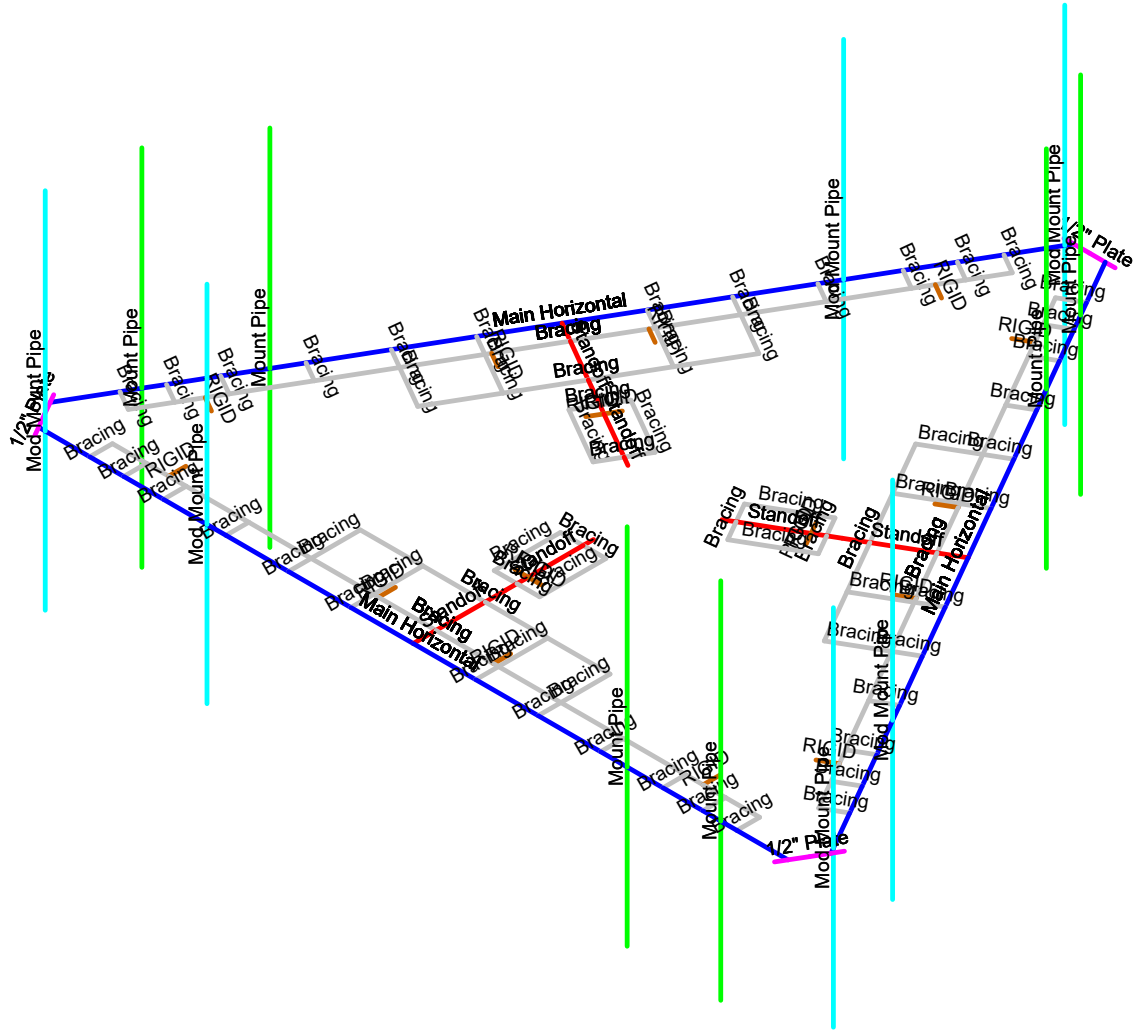
Infinigy Engineering, PLLC.
TM
1106-A0001-B

Scotland

Final Configuration
Sept 26, 2019 at 10:58 AM
CTL01242_MOD_loaded.r3d



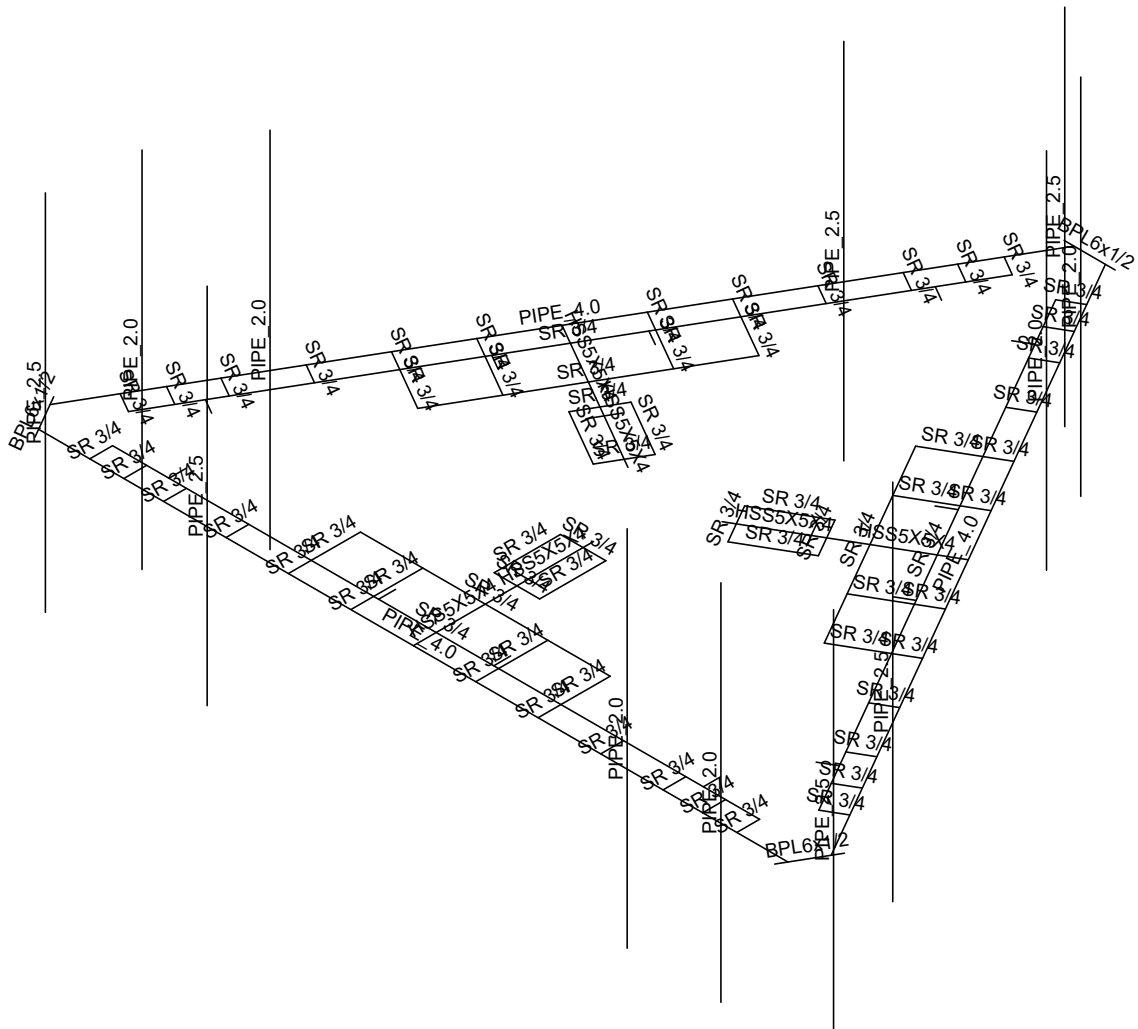
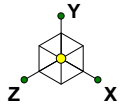
Section Sets	
█	Main Horizontal
█	Mount Pipe
█	Standoff
█	Bracing
█	1/2" Plate
█	Mod Mount Pipe
█	RIGID



Infinigy Engineering, PLLC.
 TM
 1106-A0001-B

Scotland

Section Sets
 Sept 26, 2019 at 10:58 AM
 CTL01242_MOD_loaded.r3d



Infinigy Engineering, PLLC.

TM

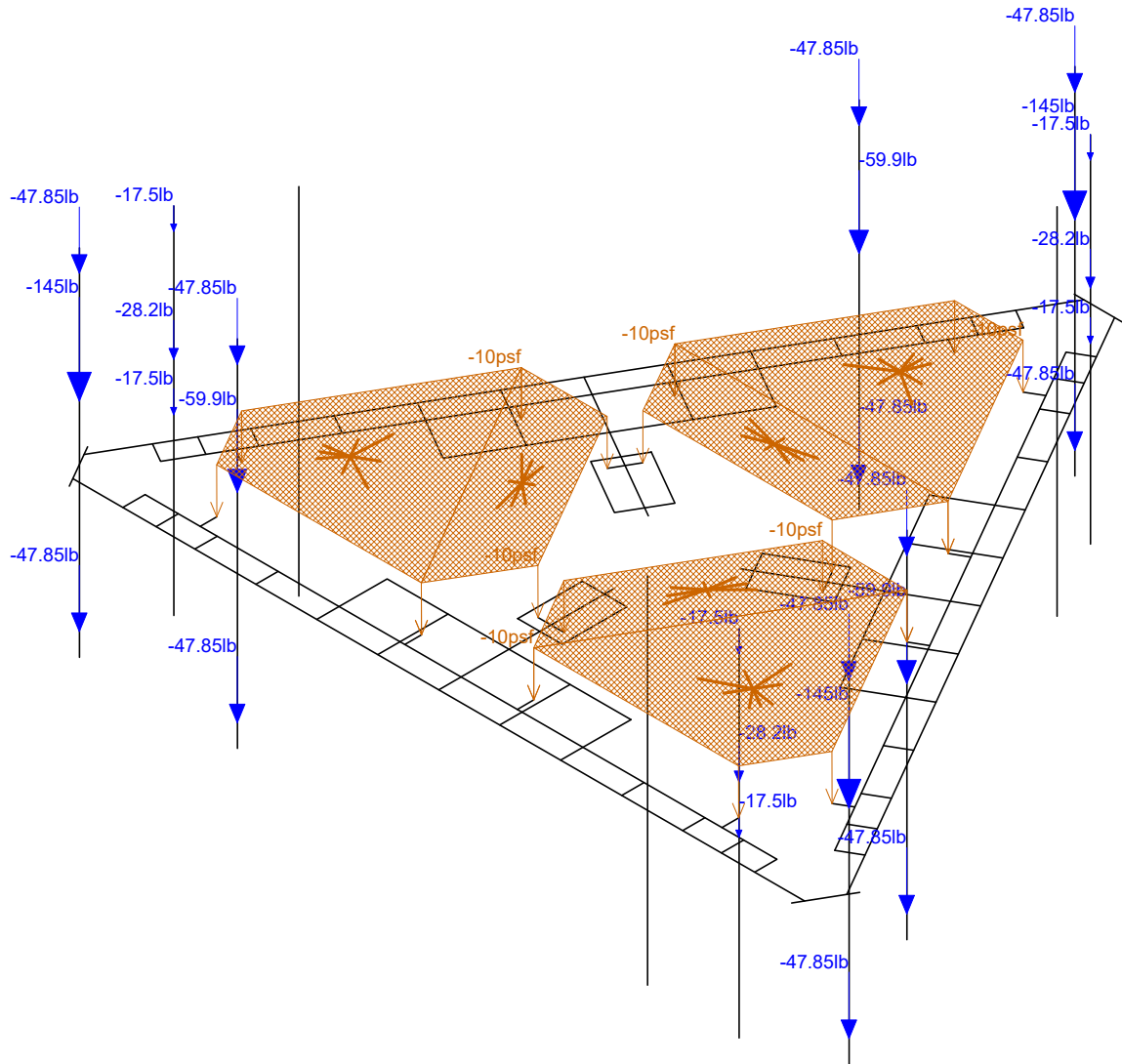
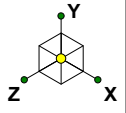
1106-A0001-B

Scotland

Member Shape

Sept 26, 2019 at 10:58 AM

CTL01242_MOD_loaded.r3d



Loads: BLC 1, Self Weight

Infinigy Engineering, PLLC.

TM

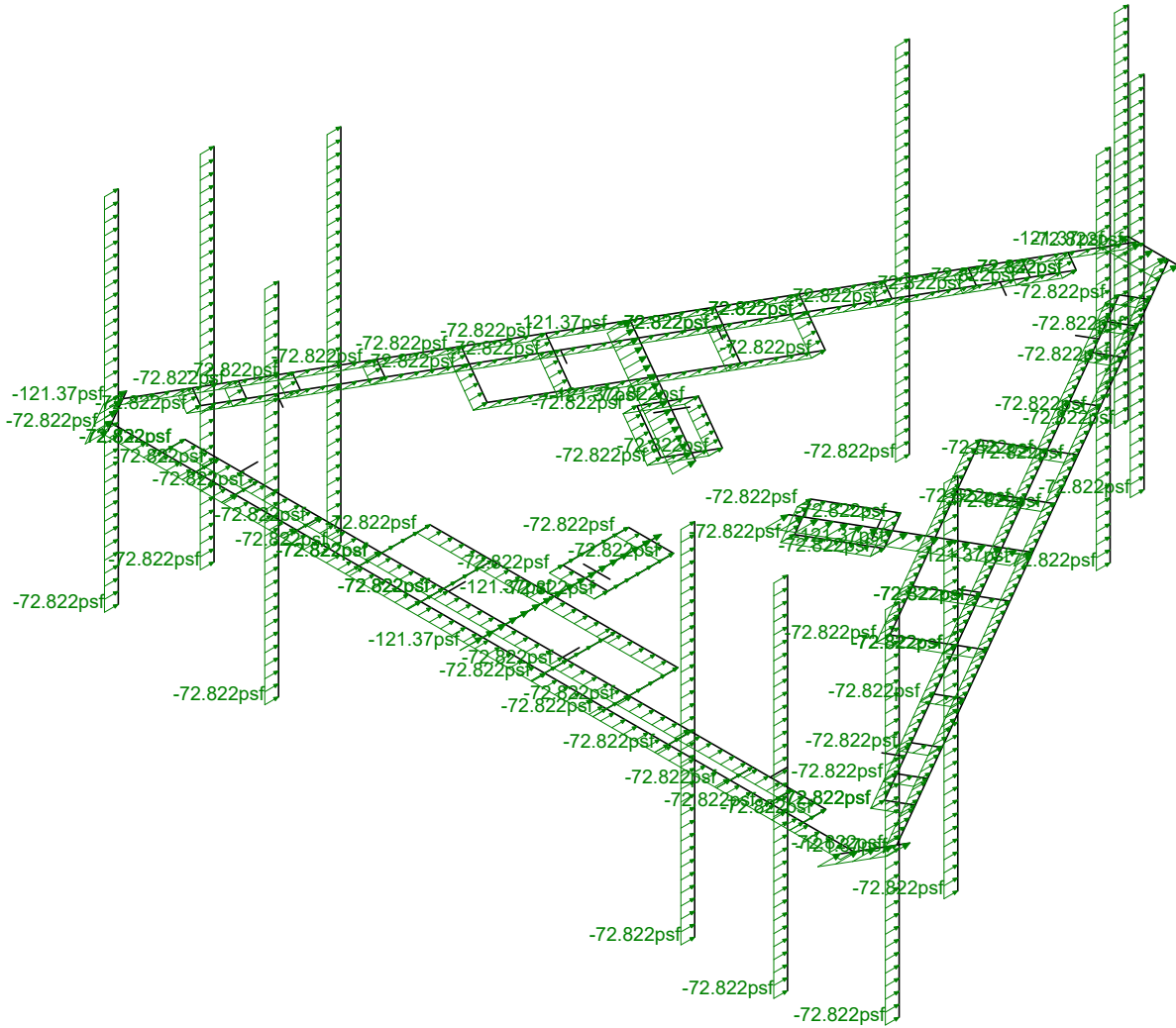
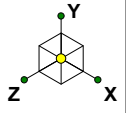
1106-A0001-B

Scotland

Self Weight

Sept 26, 2019 at 10:59 AM

CTL01242_MOD_loaded.r3d



Loads: BLC 14, Distr. Wind Load Z

Infinigy Engineering, PLLC.

TM

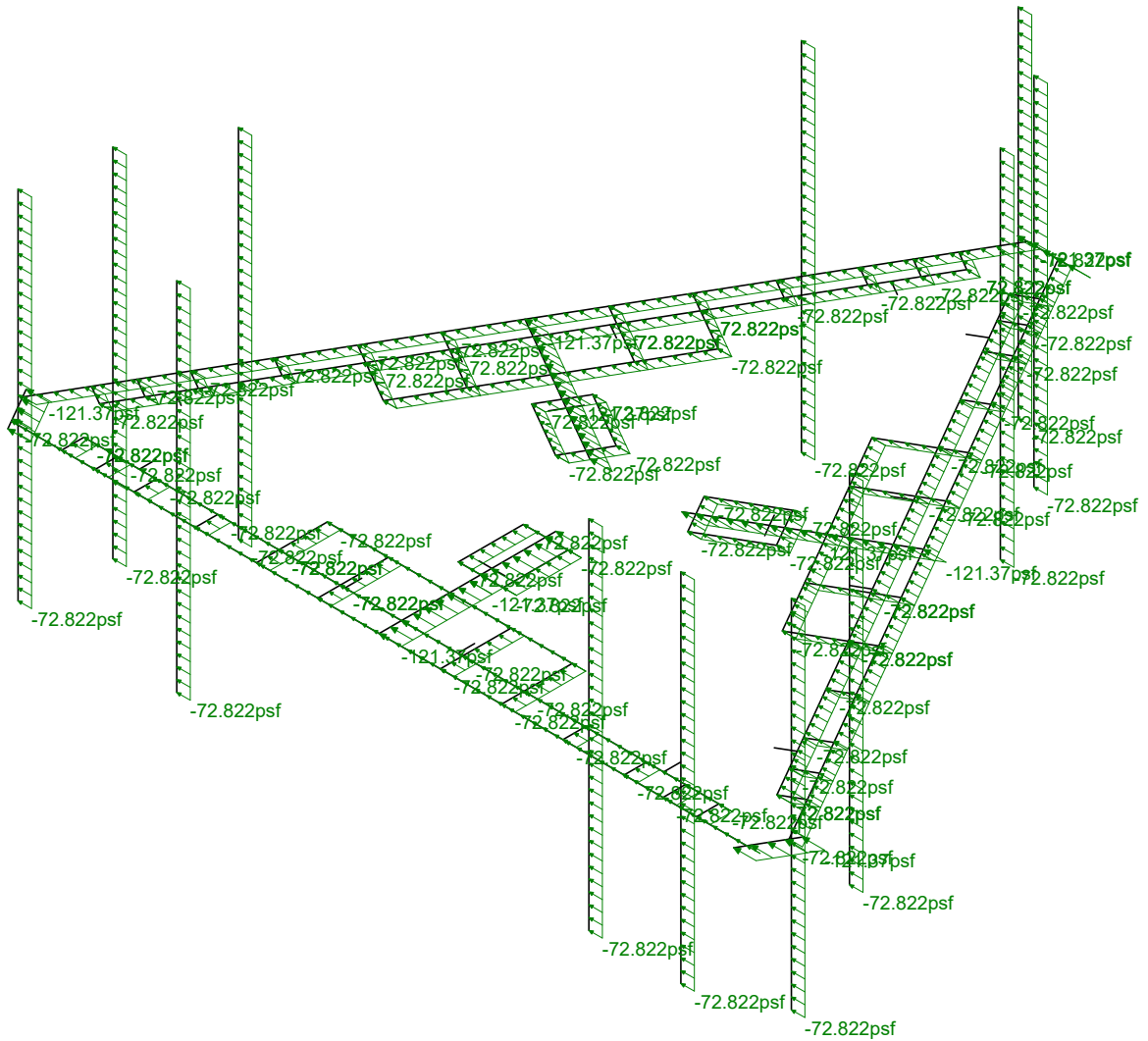
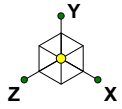
1106-A0001-B

Scotland

Wind Load AZI 000

Sept 26, 2019 at 10:59 AM

CTL01242_MOD_loaded.r3d



Loads: BLC 15, Distr. Wind Load X

Infinigy Engineering, PLLC.

TM

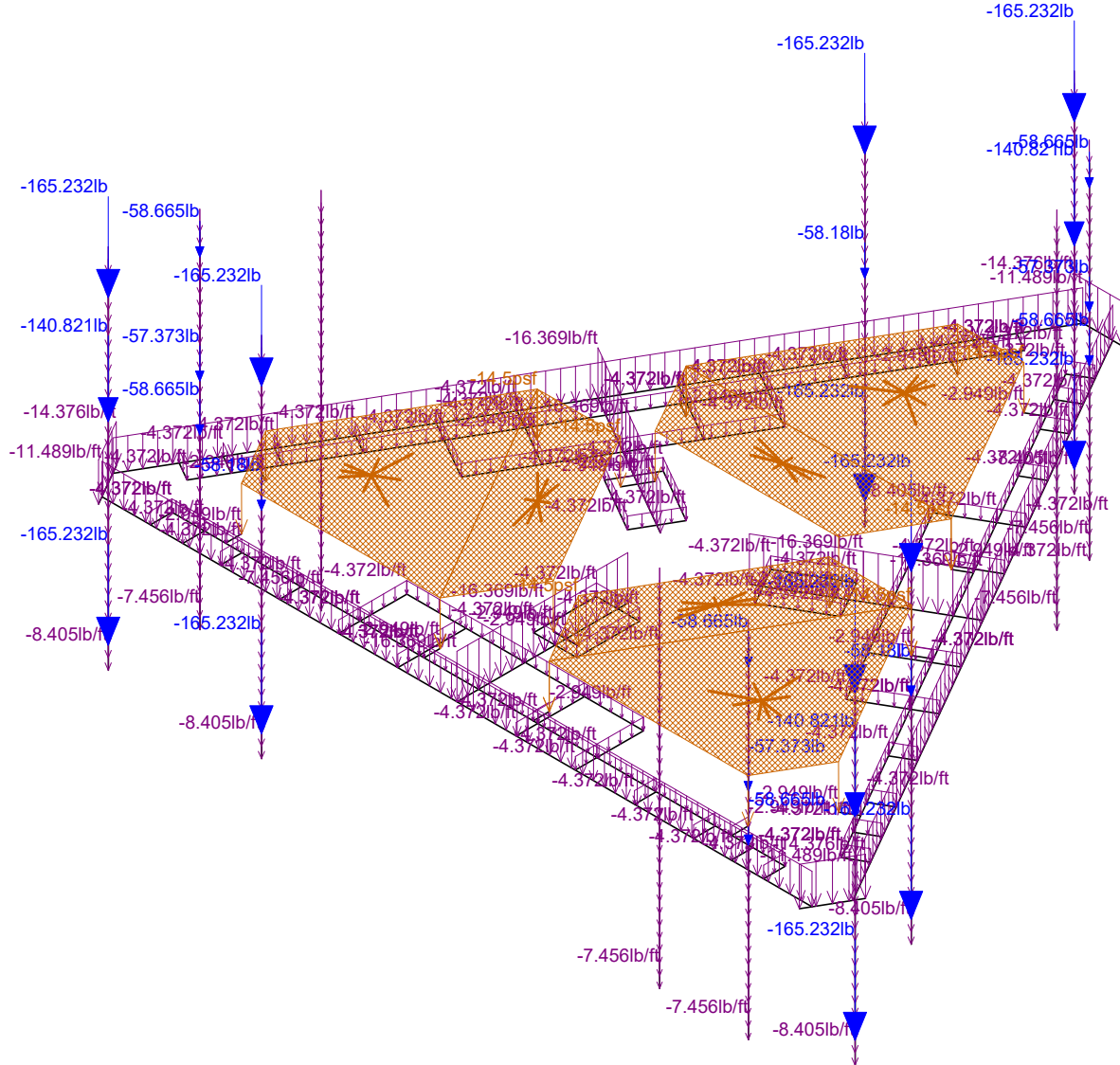
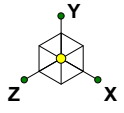
1106-A0001-B

Scotland

Wind Load AZI 090

Sept 26, 2019 at 10:59 AM

CTL01242_MOD_loaded.r3d

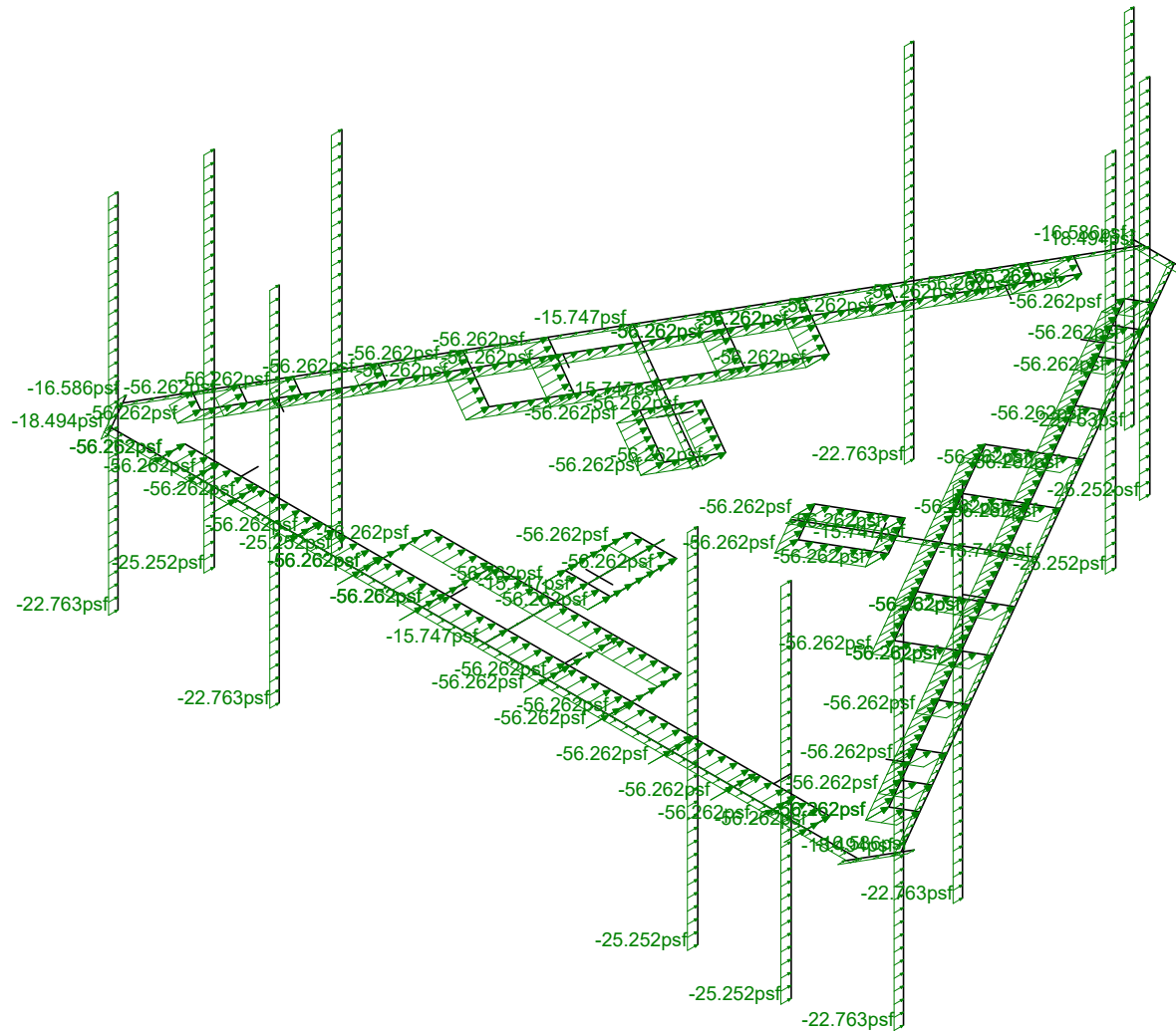
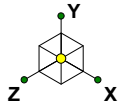


Loads: BLC 16, Ice Weight

Infinigy Engineering, PLLC.
TM
1106-A0001-B

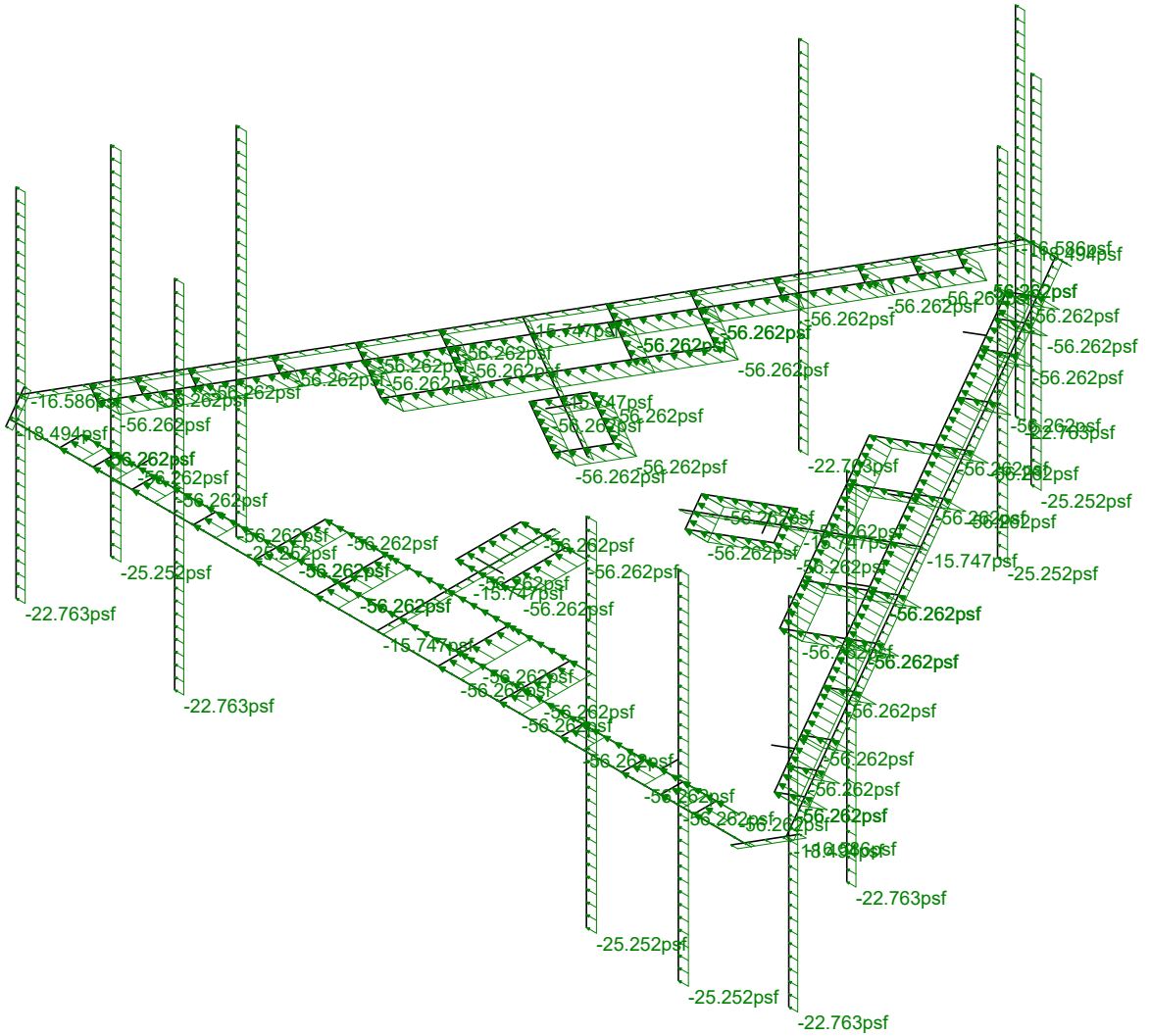
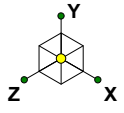
Scotland

Ice Weight
Sept 26, 2019 at 11:00 AM
CTL01242_MOD_loaded.r3d



Loads: BLC 29, Distr. Ice Wind Load Z

Infinigy Engineering, PLLC.	Scotland	Wind + Ice Load AZI 000
TM		Sept 26, 2019 at 11:00 AM
1106-A0001-B		CTL01242_MOD_loaded.r3d

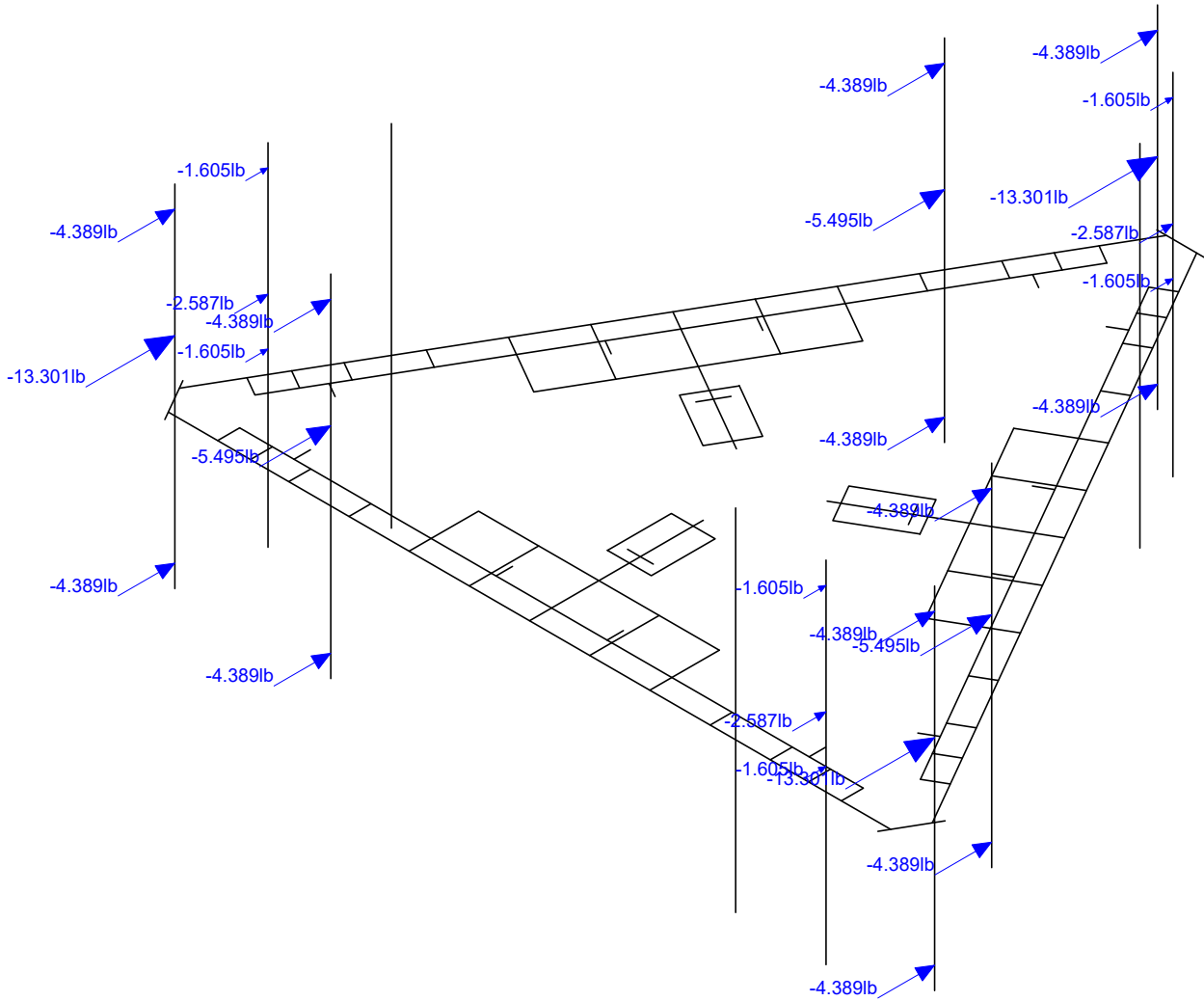
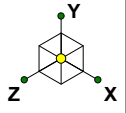


Loads: BLC 30, Distr. Ice Wind Load X

Infinigy Engineering, PLLC.
 TM
 1106-A0001-B

Scotland

Wind + Ice Load AZI 090
 Sept 26, 2019 at 11:00 AM
 CTL01242_MOD_loaded.r3d



Loads: BLC 31, Seismic Load Z

Infinigy Engineering, PLLC.

TM

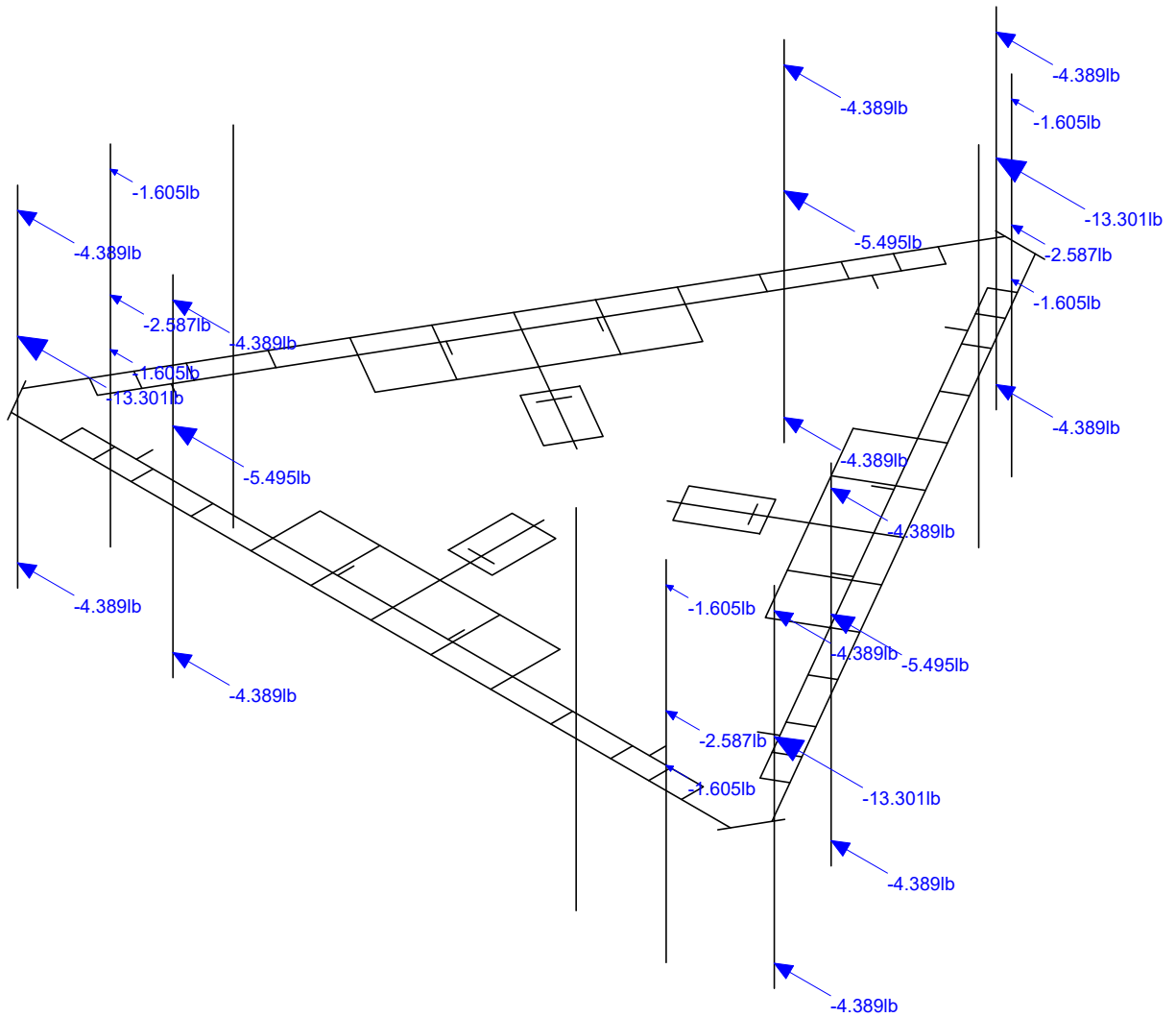
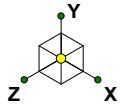
1106-A0001-B

Scotland

Seismic Load AZI 000

Sept 26, 2019 at 11:00 AM

CTL01242_MOD_loaded.r3d

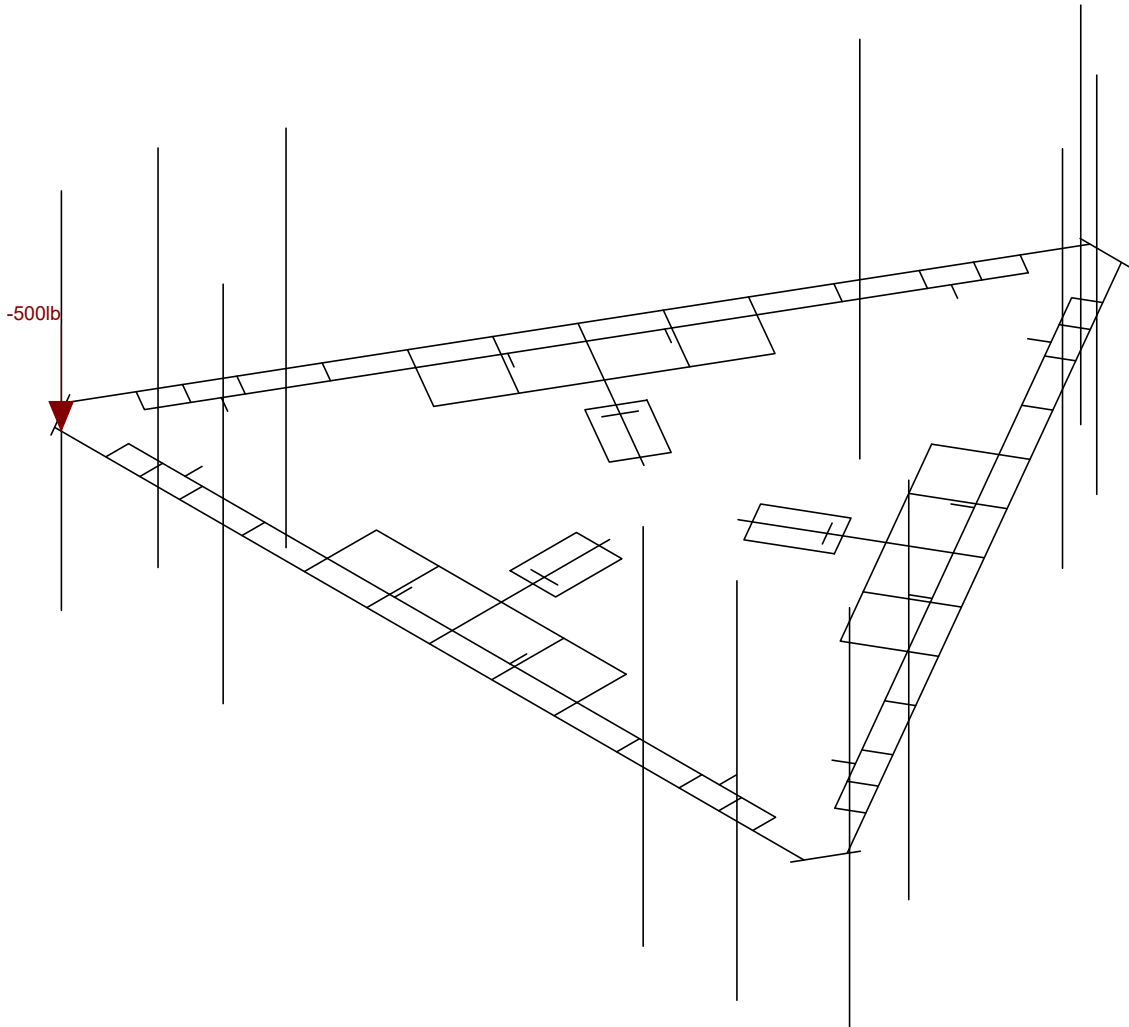
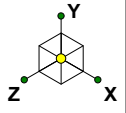


Loads: BLC 32, Seismic Load X

Infinigy Engineering, PLLC.
TM
1106-A0001-B

Scotland

Seismic Load AZI 090
Sept 26, 2019 at 11:00 AM
CTL01242_MOD_loaded.r3d



Loads: BLC 33, Service Live Loads

Infinigy Engineering, PLLC.
TM
1106-A0001-B

Scotland

Service Load

Sept 26, 2019 at 11:01 AM

CTL01242_MOD_loaded.r3d

Program Inputs



Project Information		
Client:	Smartlink	
Carrier:	AT&T	
Engineer:	TM	

Code Standards		
Building Code:	2015 IBC	
TIA Standard:	TIA-222-H	
ASCE Standard:	ASCE 7-10	

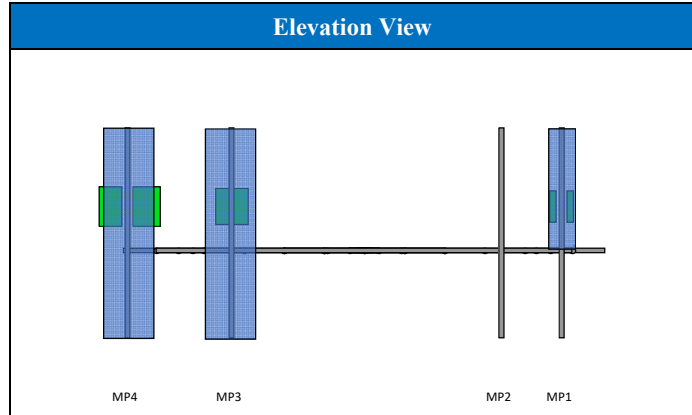
Mount Information		
Mount Type:	Platform	
Num Sectors:	3	
Centerline AGL:	238.0	ft
Roof Height AGL:	0.0	ft

Site Information		
Risk Category:	II	
Exposure Category:	C	
Topo Category:	1	
Site Class:	D - Stiff Soil	
Ground Elevation:	359	ft

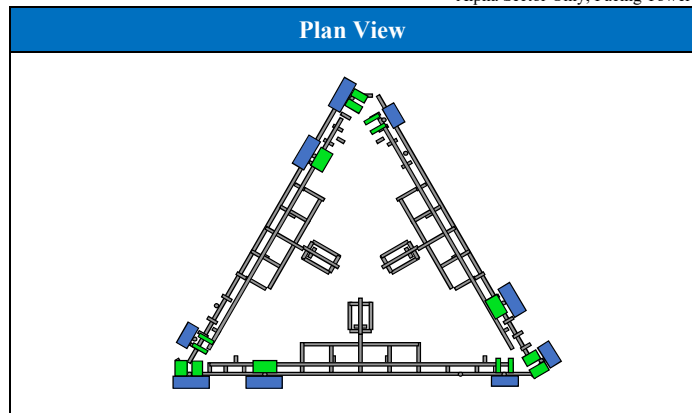
Wind and Ice Data		
Ultimate Wind:	129	mph
Basic Wind:	N/A	mph
Ice Wind:	50	mph
Ice Thickness:	1.275	in

Topographic Data		
Topo Feature:	N/A	
Crest Height:	N/A	ft
Slope Distance:	N/A	ft
Crest Distance:	N/A	ft

Seismic Data		
S _v :	0.17	g
S _l :	0.06	g
a _v :	1.0	
R _p :	2.50	
Ω _v :	1.0	
S _{DS} :	0.18	
S _{Dl} :	0.10	
F _a :	1.60	
F _v :	2.40	



*Alpha Sector Only, Facing Tower



*Alpha Sector at Bottom

Appurtenance Information**										
Appurtenance Name	Elevation	Qty.	q _z (psf)	EPA _N (ft ²)	EPA _T (ft ²)	Wind F _z (lbs)	Wind F _x (lbs)	Weight (lbs)	Seismic F (lbs)	Member (α sector)
POWERWAVE TECHNOLOGIES 7770.00	238.0	3	60.68	5.51	2.93	300.85	159.93	35.00	3.21	MP1
CCI ANTENNAS DMP65R-BU8DA	238.0	3	60.68	17.87	8.12	470.55	949.11	95.70	8.78	MP3
CCI ANTENNAS DMP65R-BU8DA	238.0	3	60.68	17.87	8.12	470.55	949.11	95.70	8.78	MP4
DC6 SQUIDS	238.0	3	60.68	1.90	1.90	103.75	103.75	32.80	3.01	Leg/Flush
POWERWAVE TECHNOLOGIES TME-LGP21401	238.0	3	60.68	1.10	0.35	60.30	18.96	14.10	1.29	MP1
POWERWAVE TECHNOLOGIES TME-LGP21401	238.0	3	60.68	1.10	0.35	60.30	18.96	14.10	1.29	MP1
ERICSSON TME-RRUS 4478 B14	238.0	3	60.68	1.84	1.06	100.63	57.83	59.90	5.49	MP3
ERICSSON 4449 B5/B12	238.0	3	60.68	1.98	1.41	108.14	77.01	70.00	6.42	MP4
ERICSSON 8843 B2/B66A	238.0	3	60.68	1.98	1.70	108.14	92.57	75.00	6.88	MP4

**Dish calculations differ from those in display

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Rul...
1	M1	N16	N28			Bracing	None	None	A36 Gr.36	Typical
2	M2	N28	N15			Bracing	None	None	A36 Gr.36	Typical
3	M3	N14	N27			Bracing	None	None	A36 Gr.36	Typical
4	M4	N13	N26			Bracing	None	None	A36 Gr.36	Typical
5	M5	N12	N25			Bracing	None	None	A36 Gr.36	Typical
6	M6	N11	N24			Bracing	None	None	A36 Gr.36	Typical
7	M7	N10	N23			Bracing	None	None	A36 Gr.36	Typical
8	M8	N21	N8			Bracing	None	None	A36 Gr.36	Typical
9	M9	N20	N7			Bracing	None	None	A36 Gr.36	Typical
10	M10	N19	N6			Bracing	None	None	A36 Gr.36	Typical
11	M11	N18	N5			Bracing	None	None	A36 Gr.36	Typical
12	M12	N17	N4			Bracing	None	None	A36 Gr.36	Typical
13	M13	N16	N3			Bracing	None	None	A36 Gr.36	Typical
14	M14	N9	N29			Standoff	None	None	A53 Gr.B	Typical
15	M15	N29	N32			Standoff	None	None	A53 Gr.B	Typical
16	M16	N20	N37			Bracing	None	None	A36 Gr.36	Typical
17	M17	N37	N40			Bracing	None	None	A36 Gr.36	Typical
18	M18	N24	N40			Bracing	None	None	A36 Gr.36	Typical
19	M19	N23	N39			Bracing	None	None	A36 Gr.36	Typical
20	M20	N21	N38			Bracing	None	None	A36 Gr.36	Typical
21	M21	N35	N33			Bracing	None	None	A36 Gr.36	Typical
22	M22	N33	N34			Bracing	None	None	A36 Gr.36	Typical
23	M23	N34	N36			Bracing	None	None	A36 Gr.36	Typical
24	M24	N36	N35			Bracing	None	None	A36 Gr.36	Typical
25	M25	N49	N50			RIGID	None	None	RIGID	Typical
26	M26	N51	N52			RIGID	None	None	RIGID	Typical
27	M27	N57	N55			RIGID	None	None	RIGID	Typical
28	M28	N55	N56			RIGID	None	None	RIGID	Typical
29	M29	N54	N53			RIGID	None	None	RIGID	Typical
30	M30	N48	N47			RIGID	None	None	RIGID	Typical
31	M31	N73	N85			Bracing	None	None	A36 Gr.36	Typical
32	M32	N85	N72			Bracing	None	None	A36 Gr.36	Typical
33	M33	N71	N84			Bracing	None	None	A36 Gr.36	Typical
34	M34	N70	N83			Bracing	None	None	A36 Gr.36	Typical
35	M35	N69	N82			Bracing	None	None	A36 Gr.36	Typical
36	M36	N68	N81			Bracing	None	None	A36 Gr.36	Typical
37	M37	N67	N80			Bracing	None	None	A36 Gr.36	Typical
38	M38	N78	N65			Bracing	None	None	A36 Gr.36	Typical
39	M39	N77	N64			Bracing	None	None	A36 Gr.36	Typical
40	M40	N76	N63			Bracing	None	None	A36 Gr.36	Typical
41	M41	N75	N62			Bracing	None	None	A36 Gr.36	Typical
42	M42	N74	N61			Bracing	None	None	A36 Gr.36	Typical
43	M43	N73	N60			Bracing	None	None	A36 Gr.36	Typical
44	M44	N66	N86			Standoff	None	None	A53 Gr.B	Typical
45	M45	N86	N89			Standoff	None	None	A53 Gr.B	Typical
46	M46	N77	N94			Bracing	None	None	A36 Gr.36	Typical
47	M47	N94	N97			Bracing	None	None	A36 Gr.36	Typical
48	M48	N81	N97			Bracing	None	None	A36 Gr.36	Typical
49	M49	N80	N96			Bracing	None	None	A36 Gr.36	Typical
50	M50	N78	N95			Bracing	None	None	A36 Gr.36	Typical
51	M51	N92	N90			Bracing	None	None	A36 Gr.36	Typical
52	M52	N90	N91			Bracing	None	None	A36 Gr.36	Typical
53	M53	N91	N93			Bracing	None	None	A36 Gr.36	Typical
54	M54	N93	N92			Bracing	None	None	A36 Gr.36	Typical
55	M55	N58	N59			Main Horizontal	None	None	A53 Gr.B	Typical
56	M56	N103	N104			RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Rul...
57	M57	N105	N106			RIGID	None	None	RIGID	Typical
58	M58	N111	N109			RIGID	None	None	RIGID	Typical
59	M59	N109	N110			RIGID	None	None	RIGID	Typical
60	M60	N108	N107			RIGID	None	None	RIGID	Typical
61	M61	N102	N101			RIGID	None	None	RIGID	Typical
62	M62	N127	N139			Bracing	None	None	A36 Gr.36	Typical
63	M63	N139	N126			Bracing	None	None	A36 Gr.36	Typical
64	M64	N125	N138			Bracing	None	None	A36 Gr.36	Typical
65	M65	N124	N137			Bracing	None	None	A36 Gr.36	Typical
66	M66	N123	N136			Bracing	None	None	A36 Gr.36	Typical
67	M67	N122	N135			Bracing	None	None	A36 Gr.36	Typical
68	M68	N121	N134			Bracing	None	None	A36 Gr.36	Typical
69	M69	N132	N119			Bracing	None	None	A36 Gr.36	Typical
70	M70	N131	N118			Bracing	None	None	A36 Gr.36	Typical
71	M71	N130	N117			Bracing	None	None	A36 Gr.36	Typical
72	M72	N129	N116			Bracing	None	None	A36 Gr.36	Typical
73	M73	N128	N115			Bracing	None	None	A36 Gr.36	Typical
74	M74	N127	N114			Bracing	None	None	A36 Gr.36	Typical
75	M75	N120	N140			Standoff	None	None	A53 Gr.B	Typical
76	M76	N140	N143			Standoff	None	None	A53 Gr.B	Typical
77	M77	N131	N151			Bracing	None	None	A36 Gr.36	Typical
78	M78	N151	N154			Bracing	None	None	A36 Gr.36	Typical
79	M79	N135	N154			Bracing	None	None	A36 Gr.36	Typical
80	M80	N134	N153			Bracing	None	None	A36 Gr.36	Typical
81	M81	N132	N152			Bracing	None	None	A36 Gr.36	Typical
82	M82	N147	N144			Bracing	None	None	A36 Gr.36	Typical
83	M83	N144	N145			Bracing	None	None	A36 Gr.36	Typical
84	M84	N145	N149			Bracing	None	None	A36 Gr.36	Typical
85	M85	N149	N147			Bracing	None	None	A36 Gr.36	Typical
86	M86	N112	N113			Main Horizontal	None	None	A53 Gr.B	Typical
87	M87	N185	N187			RIGID	None	None	RIGID	Typical
88	M88	N189	N191			RIGID	None	None	RIGID	Typical
89	M89	N198	N196			RIGID	None	None	RIGID	Typical
90	M90	N196	N197			RIGID	None	None	RIGID	Typical
91	M91	N195	N193			RIGID	None	None	RIGID	Typical
92	M92	N183	N181			RIGID	None	None	RIGID	Typical
93	M93	N157	N99			1/2" Plate	None	None	A36 Gr.36	Typical
94	M94	N98	N42			1/2" Plate	None	None	A36 Gr.36	Typical
95	M95	N161	N41			1/2" Plate	None	None	A36 Gr.36	Typical
96	M96	N1	N2			Main Horizontal	None	None	A53 Gr.B	Typical
97	MP1	N162	N158			Mount Pipe	None	None	A53 Gr.B	Typical
98	MP2	N45	N44			Mount Pipe	None	None	A53 Gr.B	Typical
99	MP3	N150	N148			Mod Mount Pipe	None	None	A53 Gr.B	Typical
100	MP4	N163	N159			Mod Mount Pipe	None	None	A53 Gr.B	Typical
101	MP5	N182	N180			Mount Pipe	None	None	A53 Gr.B	Typical
102	MP6	N178	N176			Mount Pipe	None	None	A53 Gr.B	Typical
103	MP7	N188	N186			Mod Mount Pipe	None	None	A53 Gr.B	Typical
104	MP8	N194	N192			Mod Mount Pipe	None	None	A53 Gr.B	Typical
105	MP9	N168	N167			Mount Pipe	None	None	A53 Gr.B	Typical
106	MP10	N165	N164			Mount Pipe	None	None	A53 Gr.B	Typical
107	MP11	N171	N170			Mod Mount Pipe	None	None	A53 Gr.B	Typical
108	MP12	N174	N173			Mod Mount Pipe	None	None	A53 Gr.B	Typical

Hot Rolled Steel Design Parameters

	Label	Shape	Length[i...]	Lbyy[in]	Lbzz[in]	Lcomp top[...]	Lcomp bot[...]	L-torque[i...]	Kyy	Kzz	Cb	Functi...
1	M1	Bracing	171	16.5	16.5	16.5	16.5					Lateral
2	M2	Bracing	6			Lbyy						Lateral
3	M3	Bracing	6			Lbyy						Lateral
4	M4	Bracing	6			Lbyy						Lateral
5	M5	Bracing	6			Lbyy						Lateral
6	M6	Bracing	6			Lbyy						Lateral
7	M7	Bracing	6			Lbyy						Lateral
8	M8	Bracing	6			Lbyy						Lateral
9	M9	Bracing	6			Lbyy						Lateral
10	M10	Bracing	6			Lbyy						Lateral
11	M11	Bracing	6			Lbyy						Lateral
12	M12	Bracing	6			Lbyy						Lateral
13	M13	Bracing	6			Lbyy						Lateral
14	M14	Standoff	24.375			Lbyy						Lateral
15	M15	Standoff	23.25			Lbyy						Lateral
16	M16	Bracing	13			Lbyy						Lateral
17	M17	Bracing	66			Lbyy						Lateral
18	M18	Bracing	13			Lbyy						Lateral
19	M19	Bracing	13			Lbyy						Lateral
20	M20	Bracing	13			Lbyy						Lateral
21	M21	Bracing	12			Lbyy						Lateral
22	M22	Bracing	17.5			Lbyy						Lateral
23	M23	Bracing	12			Lbyy						Lateral
24	M24	Bracing	17.5			Lbyy						Lateral
25	M31	Bracing	171	16.5	16.5	16.5	16.5					Lateral
26	M32	Bracing	6			Lbyy						Lateral
27	M33	Bracing	6			Lbyy						Lateral
28	M34	Bracing	6			Lbyy						Lateral
29	M35	Bracing	6			Lbyy						Lateral
30	M36	Bracing	6			Lbyy						Lateral
31	M37	Bracing	6			Lbyy						Lateral
32	M38	Bracing	6			Lbyy						Lateral
33	M39	Bracing	6			Lbyy						Lateral
34	M40	Bracing	6			Lbyy						Lateral
35	M41	Bracing	6			Lbyy						Lateral
36	M42	Bracing	6			Lbyy						Lateral
37	M43	Bracing	6			Lbyy						Lateral
38	M44	Standoff	24.375			Lbyy						Lateral
39	M45	Standoff	23.25			Lbyy						Lateral
40	M46	Bracing	13			Lbyy						Lateral
41	M47	Bracing	66			Lbyy						Lateral
42	M48	Bracing	13			Lbyy						Lateral
43	M49	Bracing	13			Lbyy						Lateral
44	M50	Bracing	13			Lbyy						Lateral
45	M51	Bracing	12			Lbyy						Lateral
46	M52	Bracing	17.5			Lbyy						Lateral
47	M53	Bracing	12			Lbyy						Lateral
48	M54	Bracing	17.5			Lbyy						Lateral
49	M55	Main Horizontal	198			Lbyy						Lateral
50	M62	Bracing	171	16.5	16.5	16.5	16.5					Lateral
51	M63	Bracing	6			Lbyy						Lateral
52	M64	Bracing	6			Lbyy						Lateral
53	M65	Bracing	6			Lbyy						Lateral
54	M66	Bracing	6			Lbyy						Lateral
55	M67	Bracing	6			Lbyy						Lateral
56	M68	Bracing	6			Lbyy						Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[in]	Lbyy[in]	Lbzz[in]	Lcomp top[in]	Lcomp bot[in]	L-torque[in]	Kyy	Kzz	Cb	Function
57	M69	Bracing	6			Lbyy						Lateral
58	M70	Bracing	6			Lbyy						Lateral
59	M71	Bracing	6			Lbyy						Lateral
60	M72	Bracing	6			Lbyy						Lateral
61	M73	Bracing	6			Lbyy						Lateral
62	M74	Bracing	6			Lbyy						Lateral
63	M75	Standoff	24.375			Lbyy						Lateral
64	M76	Standoff	23.25			Lbyy						Lateral
65	M77	Bracing	13			Lbyy						Lateral
66	M78	Bracing	66			Lbyy						Lateral
67	M79	Bracing	13			Lbyy						Lateral
68	M80	Bracing	13			Lbyy						Lateral
69	M81	Bracing	13			Lbyy						Lateral
70	M82	Bracing	12			Lbyy						Lateral
71	M83	Bracing	17.5			Lbyy						Lateral
72	M84	Bracing	12			Lbyy						Lateral
73	M85	Bracing	17.5			Lbyy						Lateral
74	M86	Main Horizontal	198			Lbyy						Lateral
75	M93	1/2" Plate	13.508			Lbyy						Lateral
76	M94	1/2" Plate	13.508			Lbyy						Lateral
77	M95	1/2" Plate	13.508			Lbyy						Lateral
78	M96	Main Horizontal	198			Lbyy						Lateral
79	MP1	Mount Pipe	96			Lbyy						Lateral
80	MP2	Mount Pipe	96			Lbyy						Lateral
81	MP3	Mod Mount Pipe	96			Lbyy						Lateral
82	MP4	Mod Mount Pipe	96			Lbyy						Lateral
83	MP5	Mount Pipe	96			Lbyy						Lateral
84	MP6	Mount Pipe	96			Lbyy						Lateral
85	MP7	Mod Mount Pipe	96			Lbyy						Lateral
86	MP8	Mod Mount Pipe	96			Lbyy						Lateral
87	MP9	Mount Pipe	96			Lbyy						Lateral
88	MP10	Mount Pipe	96			Lbyy						Lateral
89	MP11	Mod Mount Pipe	96			Lbyy						Lateral
90	MP12	Mod Mount Pipe	96			Lbyy						Lateral

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	** NA **			None
2	M2						Yes	** NA **			None
3	M3						Yes	** NA **			None
4	M4						Yes	** NA **			None
5	M5						Yes	** NA **			None
6	M6						Yes	** NA **			None
7	M7						Yes	** NA **			None
8	M8						Yes	** NA **			None
9	M9						Yes	** NA **			None
10	M10						Yes	** NA **			None
11	M11						Yes	** NA **			None
12	M12						Yes	** NA **			None
13	M13						Yes	** NA **			None
14	M14						Yes	** NA **			None
15	M15						Yes	** NA **			None
16	M16						Yes	** NA **			None
17	M17						Yes	** NA **			None
18	M18						Yes	** NA **			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...
19	M19						Yes	** NA **			None
20	M20						Yes	** NA **			None
21	M21						Yes	** NA **			None
22	M22						Yes	** NA **			None
23	M23						Yes	** NA **			None
24	M24						Yes	** NA **			None
25	M25						Yes	** NA **			None
26	M26						Yes	** NA **			None
27	M27						Yes	** NA **			None
28	M28						Yes	** NA **			None
29	M29						Yes	** NA **			None
30	M30						Yes	** NA **			None
31	M31						Yes	** NA **			None
32	M32						Yes	** NA **			None
33	M33						Yes	** NA **			None
34	M34						Yes	** NA **			None
35	M35						Yes	** NA **			None
36	M36						Yes	** NA **			None
37	M37						Yes	** NA **			None
38	M38						Yes	** NA **			None
39	M39						Yes	** NA **			None
40	M40						Yes	** NA **			None
41	M41						Yes	** NA **			None
42	M42						Yes	** NA **			None
43	M43						Yes	** NA **			None
44	M44						Yes	** NA **			None
45	M45						Yes	** NA **			None
46	M46						Yes	** NA **			None
47	M47						Yes	** NA **			None
48	M48						Yes	** NA **			None
49	M49						Yes	** NA **			None
50	M50						Yes	** NA **			None
51	M51						Yes	** NA **			None
52	M52						Yes	** NA **			None
53	M53						Yes	** NA **			None
54	M54						Yes	** NA **			None
55	M55						Yes	** NA **			None
56	M56						Yes	** NA **			None
57	M57						Yes	** NA **			None
58	M58						Yes	** NA **			None
59	M59						Yes	** NA **			None
60	M60						Yes	** NA **			None
61	M61						Yes	** NA **			None
62	M62						Yes	** NA **			None
63	M63						Yes	** NA **			None
64	M64						Yes	** NA **			None
65	M65						Yes	** NA **			None
66	M66						Yes	** NA **			None
67	M67						Yes	** NA **			None
68	M68						Yes	** NA **			None
69	M69						Yes	** NA **			None
70	M70						Yes	** NA **			None
71	M71						Yes	** NA **			None
72	M72						Yes	** NA **			None
73	M73						Yes	** NA **			None
74	M74						Yes	** NA **			None
75	M75						Yes	** NA **			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...
76	M76						Yes	** NA **			None
77	M77						Yes	** NA **			None
78	M78						Yes	** NA **			None
79	M79						Yes	** NA **			None
80	M80						Yes	** NA **			None
81	M81						Yes	** NA **			None
82	M82						Yes	** NA **			None
83	M83						Yes	** NA **			None
84	M84						Yes	** NA **			None
85	M85						Yes	** NA **			None
86	M86						Yes	** NA **			None
87	M87						Yes	** NA **			None
88	M88						Yes	** NA **			None
89	M89						Yes	** NA **			None
90	M90						Yes	** NA **			None
91	M91						Yes	** NA **			None
92	M92						Yes	** NA **			None
93	M93						Yes	** NA **			None
94	M94						Yes	** NA **			None
95	M95						Yes	** NA **			None
96	M96						Yes	** NA **			None
97	MP1						Yes	** NA **			None
98	MP2						Yes	** NA **			None
99	MP3						Yes	** NA **			None
100	MP4						Yes	** NA **			None
101	MP5						Yes	** NA **			None
102	MP6						Yes	** NA **			None
103	MP7						Yes	** NA **			None
104	MP8						Yes	** NA **			None
105	MP9						Yes	** NA **			None
106	MP10						Yes	** NA **			None
107	MP11						Yes	** NA **			None
108	MP12						Yes	** NA **			None

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Main Horizontal	PIPE 4.0	None	None	A53 Gr.B	Typical	2.96	6.82	6.82	13.6
2	Mount Pipe	PIPE 2.0	None	None	A53 Gr.B	Typical	1.02	.627	.627	1.25
3	Standoff	HSS5X5X4	None	None	A53 Gr.B	Typical	4.3	16	16	25.8
4	Bracing	SR 3/4	None	None	A36 Gr.36	Typical	.442	.016	.016	.031
5	1/2" Plate	BPL6x1/2	None	None	A36 Gr.36	Typical	3	.063	9	.237
6	Mod Mount Pi...	PIPE 2.5	None	None	A53 Gr.B	Typical	1.61	1.45	1.45	2.89

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(...
1	Self Weight	DL		-1			33		6
2	Wind Load AZI 0	WLZ					66		
3	Wind Load AZI 30	None					66		
4	Wind Load AZI 60	None					66		
5	Wind Load AZI 90	WLX					66		
6	Wind Load AZI 120	None					66		
7	Wind Load AZI 150	None					66		
8	Wind Load AZI 180	None					66		
9	Wind Load AZI 210	None					66		

Basic Load Cases (Continued)

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me... Surface(...
10 Wind Load AZI 240	None					66	
11 Wind Load AZI 270	None					66	
12 Wind Load AZI 300	None					66	
13 Wind Load AZI 330	None					66	
14 Distr. Wind Load Z	WLZ						108
15 Distr. Wind Load X	WLX						108
16 Ice Weight	OL1					33	108 6
17 Ice Wind Load AZI 0	OL2					66	
18 Ice Wind Load AZI 30	None					66	
19 Ice Wind Load AZI 60	None					66	
20 Ice Wind Load AZI 90	OL3					66	
21 Ice Wind Load AZI 120	None					66	
22 Ice Wind Load AZI 150	None					66	
23 Ice Wind Load AZI 180	None					66	
24 Ice Wind Load AZI 210	None					66	
25 Ice Wind Load AZI 240	None					66	
26 Ice Wind Load AZI 270	None					66	
27 Ice Wind Load AZI 300	None					66	
28 Ice Wind Load AZI 330	None					66	
29 Distr. Ice Wind Load Z	OL2						108
30 Distr. Ice Wind Load X	OL3						108
31 Seismic Load Z	ELZ			-0.092		33	
32 Seismic Load X	ELX	-0.092				33	
33 Service Live Loads	LL				1		
34 Maintenance Load 1	LL				1		
35 Maintenance Load 2	LL				1		
36 Maintenance Load 3	LL				1		
37 Maintenance Load 4	LL				1		
38 Maintenance Load 5	LL				1		
39 Maintenance Load 6	LL				1		
40 Maintenance Load 7	LL				1		
41 Maintenance Load 8	LL				1		
42 Maintenance Load 9	LL				1		
43 Maintenance Load 10	LL				1		
44 Maintenance Load 11	LL				1		
45 Maintenance Load 12	LL				1		
46 BLC 1 Transient Area Loads	None						217
47 BLC 16 Transient Area Lo...	None						216

Load Combinations

Description	S...	P...	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	
1 1.4DL	Yes	Y		1	1.4																	
2 1.2DL + 1WL AZI 0	Yes	Y		1	1.2	2	1	14	1	15												
3 1.2DL + 1WL AZI 30	Yes	Y		1	1.2	3	1	14	.866	15	.5											
4 1.2DL + 1WL AZI 60	Yes	Y		1	1.2	4	1	14	.5	15	.866											
5 1.2DL + 1WL AZI 90	Yes	Y		1	1.2	5	1	14		15	1											
6 1.2DL + 1WL AZI 120	Yes	Y		1	1.2	6	1	14	-.5	15	.866											
7 1.2DL + 1WL AZI 150	Yes	Y		1	1.2	7	1	14	-.866	15	.5											
8 1.2DL + 1WL AZI 180	Yes	Y		1	1.2	8	1	14	-1	15												
9 1.2DL + 1WL AZI 210	Yes	Y		1	1.2	9	1	14	-.866	15	-.5											
10 1.2DL + 1WL AZI 240	Yes	Y		1	1.2	10	1	14	-.5	15	-.866											
11 1.2DL + 1WL AZI 270	Yes	Y		1	1.2	11	1	14		15	-1											
12 1.2DL + 1WL AZI 300	Yes	Y		1	1.2	12	1	14	.5	15	-.866											
13 1.2DL + 1WL AZI 330	Yes	Y		1	1.2	13	1	14	.866	15	-.5											
14 0.9DL + 1WL AZI 0	Yes	Y		1	.9	2	1	14	1	15												

Member Point Loads (BLC 1 : Self Weight)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in, %]
1	MP1	Y	-17.5	47
2	MP1	Y	-17.5	90
3	MP3	Y	-47.85	6
4	MP3	Y	-47.85	90
5	MP4	Y	-47.85	6
6	MP4	Y	-47.85	90
7	MP1	Y	-14.1	60
8	MP1	Y	-14.1	60
9	MP3	Y	-59.9	60
10	MP4	Y	-70	60
11	MP4	Y	-75	60
12	MP5	Y	-17.5	47
13	MP5	Y	-17.5	90
14	MP7	Y	-47.85	6
15	MP7	Y	-47.85	90
16	MP8	Y	-47.85	6
17	MP8	Y	-47.85	90
18	MP5	Y	-14.1	60
19	MP5	Y	-14.1	60
20	MP7	Y	-59.9	60
21	MP8	Y	-70	60
22	MP8	Y	-75	60
23	MP9	Y	-17.5	47
24	MP9	Y	-17.5	90
25	MP11	Y	-47.85	6
26	MP11	Y	-47.85	90
27	MP12	Y	-47.85	6
28	MP12	Y	-47.85	90
29	MP9	Y	-14.1	60
30	MP9	Y	-14.1	60
31	MP11	Y	-59.9	60
32	MP12	Y	-70	60
33	MP12	Y	-75	60

Member Point Loads (BLC 2 : Wind Load AZI 0)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in, %]
1	MP1	X	0	47
2	MP1	Z	-150.43	47
3	MP1	X	0	90
4	MP1	Z	-150.43	90
5	MP3	X	0	6
6	MP3	Z	-235.28	6
7	MP3	X	0	90
8	MP3	Z	-235.28	90
9	MP4	X	0	6
10	MP4	Z	-235.28	6
11	MP4	X	0	90
12	MP4	Z	-235.28	90
13	MP1	X	0	60
14	MP1	Z	-60.3	60
15	MP1	X	0	60
16	MP1	Z	-60.3	60
17	MP3	X	0	60
18	MP3	Z	-100.63	60
19	MP4	X	0	60

Member Point Loads (BLC 2 : Wind Load AZI 0) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
20	MP4	Z	-108.14	60
21	MP4	X	0	60
22	MP4	Z	-108.14	60
23	MP5	X	0	47
24	MP5	Z	-97.58	47
25	MP5	X	0	90
26	MP5	Z	-97.58	90
27	MP7	X	0	6
28	MP7	Z	-364.2	6
29	MP7	X	0	90
30	MP7	Z	-364.2	90
31	MP8	X	0	6
32	MP8	Z	-364.2	6
33	MP8	X	0	90
34	MP8	Z	-364.2	90
35	MP5	X	0	60
36	MP5	Z	-29.29	60
37	MP5	X	0	60
38	MP5	Z	-29.29	60
39	MP7	X	0	60
40	MP7	Z	-68.53	60
41	MP8	X	0	60
42	MP8	Z	-84.79	60
43	MP8	X	0	60
44	MP8	Z	-96.47	60
45	MP9	X	0	47
46	MP9	Z	-97.58	47
47	MP9	X	0	90
48	MP9	Z	-97.58	90
49	MP11	X	0	6
50	MP11	Z	-484.07	6
51	MP11	X	0	90
52	MP11	Z	-484.07	90
53	MP12	X	0	6
54	MP12	Z	-484.07	6
55	MP12	X	0	90
56	MP12	Z	-484.07	90
57	MP9	X	0	60
58	MP9	Z	-29.29	60
59	MP9	X	0	60
60	MP9	Z	-29.29	60
61	MP11	X	0	60
62	MP11	Z	-68.53	60
63	MP12	X	0	60
64	MP12	Z	-84.79	60
65	MP12	X	0	60
66	MP12	Z	-96.47	60

Member Point Loads (BLC 3 : Wind Load AZI 30)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
1	MP1	X	-66.41	47
2	MP1	Z	-115.02	47
3	MP1	X	-66.41	90
4	MP1	Z	-115.02	90
5	MP3	X	-172.82	6
6	MP3	Z	-299.32	6

Member Point Loads (BLC 3 : Wind Load AZI 30) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
7	MP3	X	-172.82	90
8	MP3	Z	-299.32	90
9	MP4	X	-172.82	6
10	MP4	Z	-299.32	6
11	MP4	X	-172.82	90
12	MP4	Z	-299.32	90
13	MP1	X	-24.98	60
14	MP1	Z	-43.27	60
15	MP1	X	-24.98	60
16	MP1	Z	-43.27	60
17	MP3	X	-44.96	60
18	MP3	Z	-77.88	60
19	MP4	X	-50.18	60
20	MP4	Z	-86.91	60
21	MP4	X	-52.12	60
22	MP4	Z	-90.28	60
23	MP5	X	-66.41	47
24	MP5	Z	-115.02	47
25	MP5	X	-66.41	90
26	MP5	Z	-115.02	90
27	MP7	X	-122.28	6
28	MP7	Z	-211.8	6
29	MP7	X	-122.28	90
30	MP7	Z	-211.8	90
31	MP8	X	-122.28	6
32	MP8	Z	-211.8	6
33	MP8	X	-122.28	90
34	MP8	Z	-211.8	90
35	MP5	X	-24.98	60
36	MP5	Z	-43.27	60
37	MP5	X	-24.98	60
38	MP5	Z	-43.27	60
39	MP7	X	-44.96	60
40	MP7	Z	-77.88	60
41	MP8	X	-50.18	60
42	MP8	Z	-86.91	60
43	MP8	X	-52.12	60
44	MP8	Z	-90.28	60
45	MP9	X	-39.98	47
46	MP9	Z	-69.25	47
47	MP9	X	-39.98	90
48	MP9	Z	-69.25	90
49	MP11	X	-223.69	6
50	MP11	Z	-387.45	6
51	MP11	X	-223.69	90
52	MP11	Z	-387.45	90
53	MP12	X	-223.69	6
54	MP12	Z	-387.45	6
55	MP12	X	-223.69	90
56	MP12	Z	-387.45	90
57	MP9	X	-9.48	60
58	MP9	Z	-16.42	60
59	MP9	X	-9.48	60
60	MP9	Z	-16.42	60
61	MP11	X	-28.91	60
62	MP11	Z	-50.08	60
63	MP12	X	-38.5	60

Member Point Loads (BLC 3 : Wind Load AZI 30) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
64	MP12	Z	-66.69	60
65	MP12	X	-46.29	60
66	MP12	Z	-80.17	60

Member Point Loads (BLC 4 : Wind Load AZI 60)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1	X	-84.51	47
2	MP1	Z	-48.79	47
3	MP1	X	-84.51	90
4	MP1	Z	-48.79	90
5	MP3	X	-402.94	6
6	MP3	Z	-232.64	6
7	MP3	X	-402.94	90
8	MP3	Z	-232.64	90
9	MP4	X	-402.94	6
10	MP4	Z	-232.64	6
11	MP4	X	-402.94	90
12	MP4	Z	-232.64	90
13	MP1	X	-25.37	60
14	MP1	Z	-14.65	60
15	MP1	X	-25.37	60
16	MP1	Z	-14.65	60
17	MP3	X	-59.35	60
18	MP3	Z	-34.26	60
19	MP4	X	-73.43	60
20	MP4	Z	-42.4	60
21	MP4	X	-83.54	60
22	MP4	Z	-48.23	60
23	MP5	X	-130.27	47
24	MP5	Z	-75.21	47
25	MP5	X	-130.27	90
26	MP5	Z	-75.21	90
27	MP7	X	-203.75	6
28	MP7	Z	-117.64	6
29	MP7	X	-203.75	90
30	MP7	Z	-117.64	90
31	MP8	X	-203.75	6
32	MP8	Z	-117.64	6
33	MP8	X	-203.75	90
34	MP8	Z	-117.64	90
35	MP5	X	-52.22	60
36	MP5	Z	-30.15	60
37	MP5	X	-52.22	60
38	MP5	Z	-30.15	60
39	MP7	X	-87.15	60
40	MP7	Z	-50.32	60
41	MP8	X	-93.65	60
42	MP8	Z	-54.07	60
43	MP8	X	-93.65	60
44	MP8	Z	-54.07	60
45	MP9	X	-84.51	47
46	MP9	Z	-48.79	47
47	MP9	X	-84.51	90
48	MP9	Z	-48.79	90
49	MP11	X	-275.59	6
50	MP11	Z	-159.11	6

Member Point Loads (BLC 4 : Wind Load AZI 60) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
51	MP11	X	-275.59	90
52	MP11	Z	-159.11	90
53	MP12	X	-275.59	6
54	MP12	Z	-159.11	6
55	MP12	X	-275.59	90
56	MP12	Z	-159.11	90
57	MP9	X	-25.37	60
58	MP9	Z	-14.65	60
59	MP9	X	-25.37	60
60	MP9	Z	-14.65	60
61	MP11	X	-59.35	60
62	MP11	Z	-34.26	60
63	MP12	X	-73.43	60
64	MP12	Z	-42.4	60
65	MP12	X	-83.54	60
66	MP12	Z	-48.23	60

Member Point Loads (BLC 5 : Wind Load AZI 90)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1	X	-79.97	47
2	MP1	Z	0	47
3	MP1	X	-79.97	90
4	MP1	Z	0	90
5	MP3	X	-474.56	6
6	MP3	Z	0	6
7	MP3	X	-474.56	90
8	MP3	Z	0	90
9	MP4	X	-474.56	6
10	MP4	Z	0	6
11	MP4	X	-474.56	90
12	MP4	Z	0	90
13	MP1	X	-18.96	60
14	MP1	Z	0	60
15	MP1	X	-18.96	60
16	MP1	Z	0	60
17	MP3	X	-57.83	60
18	MP3	Z	0	60
19	MP4	X	-77.01	60
20	MP4	Z	0	60
21	MP4	X	-92.57	60
22	MP4	Z	0	60
23	MP5	X	-132.81	47
24	MP5	Z	0	47
25	MP5	X	-132.81	90
26	MP5	Z	0	90
27	MP7	X	-345.63	6
28	MP7	Z	0	6
29	MP7	X	-345.63	90
30	MP7	Z	0	90
31	MP8	X	-345.63	6
32	MP8	Z	0	6
33	MP8	X	-345.63	90
34	MP8	Z	0	90
35	MP5	X	-49.96	60
36	MP5	Z	0	60
37	MP5	X	-49.96	60

Member Point Loads (BLC 5 : Wind Load AZI 90) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in, %]
38	MP5	Z	0	60
39	MP7	X	-89.93	60
40	MP7	Z	0	60
41	MP8	X	-100.36	60
42	MP8	Z	0	60
43	MP8	X	-104.25	60
44	MP8	Z	0	60
45	MP9	X	-132.81	47
46	MP9	Z	0	47
47	MP9	X	-132.81	90
48	MP9	Z	0	90
49	MP11	X	-225.76	6
50	MP11	Z	0	6
51	MP11	X	-225.76	90
52	MP11	Z	0	90
53	MP12	X	-225.76	6
54	MP12	Z	0	6
55	MP12	X	-225.76	90
56	MP12	Z	0	90
57	MP9	X	-49.96	60
58	MP9	Z	0	60
59	MP9	X	-49.96	60
60	MP9	Z	0	60
61	MP11	X	-89.93	60
62	MP11	Z	0	60
63	MP12	X	-100.36	60
64	MP12	Z	0	60
65	MP12	X	-104.25	60
66	MP12	Z	0	60

Member Point Loads (BLC 6 : Wind Load AZI 120)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in, %]
1	MP1	X	-84.51	47
2	MP1	Z	48.79	47
3	MP1	X	-84.51	90
4	MP1	Z	48.79	90
5	MP3	X	-315.41	6
6	MP3	Z	182.1	6
7	MP3	X	-315.41	90
8	MP3	Z	182.1	90
9	MP4	X	-315.41	6
10	MP4	Z	182.1	6
11	MP4	X	-315.41	90
12	MP4	Z	182.1	90
13	MP1	X	-25.37	60
14	MP1	Z	14.65	60
15	MP1	X	-25.37	60
16	MP1	Z	14.65	60
17	MP3	X	-59.35	60
18	MP3	Z	34.26	60
19	MP4	X	-73.43	60
20	MP4	Z	42.4	60
21	MP4	X	-83.54	60
22	MP4	Z	48.23	60
23	MP5	X	-84.51	47
24	MP5	Z	48.79	47

Member Point Loads (BLC 6 : Wind Load AZI 120) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
25	MP5	X	-84.51	90
26	MP5	Z	48.79	90
27	MP7	X	-402.94	6
28	MP7	Z	232.64	6
29	MP7	X	-402.94	90
30	MP7	Z	232.64	90
31	MP8	X	-402.94	6
32	MP8	Z	232.64	6
33	MP8	X	-402.94	90
34	MP8	Z	232.64	90
35	MP5	X	-25.37	60
36	MP5	Z	14.65	60
37	MP5	X	-25.37	60
38	MP5	Z	14.65	60
39	MP7	X	-59.35	60
40	MP7	Z	34.26	60
41	MP8	X	-73.43	60
42	MP8	Z	42.4	60
43	MP8	X	-83.54	60
44	MP8	Z	48.23	60
45	MP9	X	-130.27	47
46	MP9	Z	75.21	47
47	MP9	X	-130.27	90
48	MP9	Z	75.21	90
49	MP11	X	-227.29	6
50	MP11	Z	131.22	6
51	MP11	X	-227.29	90
52	MP11	Z	131.22	90
53	MP12	X	-227.29	6
54	MP12	Z	131.22	6
55	MP12	X	-227.29	90
56	MP12	Z	131.22	90
57	MP9	X	-52.22	60
58	MP9	Z	30.15	60
59	MP9	X	-52.22	60
60	MP9	Z	30.15	60
61	MP11	X	-87.15	60
62	MP11	Z	50.32	60
63	MP12	X	-93.65	60
64	MP12	Z	54.07	60
65	MP12	X	-93.65	60
66	MP12	Z	54.07	60

Member Point Loads (BLC 7 : Wind Load AZI 150)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
1	MP1	X	-66.41	47
2	MP1	Z	115.02	47
3	MP1	X	-66.41	90
4	MP1	Z	115.02	90
5	MP3	X	-122.28	6
6	MP3	Z	211.8	6
7	MP3	X	-122.28	90
8	MP3	Z	211.8	90
9	MP4	X	-122.28	6
10	MP4	Z	211.8	6
11	MP4	X	-122.28	90

Member Point Loads (BLC 7 : Wind Load AZI 150) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
12	MP4	Z	211.8	90
13	MP1	X	-24.98	60
14	MP1	Z	43.27	60
15	MP1	X	-24.98	60
16	MP1	Z	43.27	60
17	MP3	X	-44.96	60
18	MP3	Z	77.88	60
19	MP4	X	-50.18	60
20	MP4	Z	86.91	60
21	MP4	X	-52.12	60
22	MP4	Z	90.28	60
23	MP5	X	-39.98	47
24	MP5	Z	69.25	47
25	MP5	X	-39.98	90
26	MP5	Z	69.25	90
27	MP7	X	-237.28	6
28	MP7	Z	410.98	6
29	MP7	X	-237.28	90
30	MP7	Z	410.98	90
31	MP8	X	-237.28	6
32	MP8	Z	410.98	6
33	MP8	X	-237.28	90
34	MP8	Z	410.98	90
35	MP5	X	-9.48	60
36	MP5	Z	16.42	60
37	MP5	X	-9.48	60
38	MP5	Z	16.42	60
39	MP7	X	-28.91	60
40	MP7	Z	50.08	60
41	MP8	X	-38.5	60
42	MP8	Z	66.69	60
43	MP8	X	-46.29	60
44	MP8	Z	80.17	60
45	MP9	X	-66.41	47
46	MP9	Z	115.02	47
47	MP9	X	-66.41	90
48	MP9	Z	115.02	90
49	MP11	X	-195.8	6
50	MP11	Z	339.14	6
51	MP11	X	-195.8	90
52	MP11	Z	339.14	90
53	MP12	X	-195.8	6
54	MP12	Z	339.14	6
55	MP12	X	-195.8	90
56	MP12	Z	339.14	90
57	MP9	X	-24.98	60
58	MP9	Z	43.27	60
59	MP9	X	-24.98	60
60	MP9	Z	43.27	60
61	MP11	X	-44.96	60
62	MP11	Z	77.88	60
63	MP12	X	-50.18	60
64	MP12	Z	86.91	60
65	MP12	X	-52.12	60
66	MP12	Z	90.28	60

Member Point Loads (BLC 8 : Wind Load AZI 180)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in, %]
1	MP1	X	0	47
2	MP1	Z	150.43	47
3	MP1	X	0	90
4	MP1	Z	150.43	90
5	MP3	X	0	6
6	MP3	Z	235.28	6
7	MP3	X	0	90
8	MP3	Z	235.28	90
9	MP4	X	0	6
10	MP4	Z	235.28	6
11	MP4	X	0	90
12	MP4	Z	235.28	90
13	MP1	X	0	60
14	MP1	Z	60.3	60
15	MP1	X	0	60
16	MP1	Z	60.3	60
17	MP3	X	0	60
18	MP3	Z	100.63	60
19	MP4	X	0	60
20	MP4	Z	108.14	60
21	MP4	X	0	60
22	MP4	Z	108.14	60
23	MP5	X	0	47
24	MP5	Z	97.58	47
25	MP5	X	0	90
26	MP5	Z	97.58	90
27	MP7	X	0	6
28	MP7	Z	364.2	6
29	MP7	X	0	90
30	MP7	Z	364.2	90
31	MP8	X	0	6
32	MP8	Z	364.2	6
33	MP8	X	0	90
34	MP8	Z	364.2	90
35	MP5	X	0	60
36	MP5	Z	29.29	60
37	MP5	X	0	60
38	MP5	Z	29.29	60
39	MP7	X	0	60
40	MP7	Z	68.53	60
41	MP8	X	0	60
42	MP8	Z	84.79	60
43	MP8	X	0	60
44	MP8	Z	96.47	60
45	MP9	X	0	47
46	MP9	Z	97.58	47
47	MP9	X	0	90
48	MP9	Z	97.58	90
49	MP11	X	0	6
50	MP11	Z	484.07	6
51	MP11	X	0	90
52	MP11	Z	484.07	90
53	MP12	X	0	6
54	MP12	Z	484.07	6
55	MP12	X	0	90
56	MP12	Z	484.07	90
57	MP9	X	0	60

Member Point Loads (BLC 8 : Wind Load AZI 180) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP9	Z	29.29	60
59	MP9	X	0	60
60	MP9	Z	29.29	60
61	MP11	X	0	60
62	MP11	Z	68.53	60
63	MP12	X	0	60
64	MP12	Z	84.79	60
65	MP12	X	0	60
66	MP12	Z	96.47	60

Member Point Loads (BLC 9 : Wind Load AZI 210)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1	X	66.41	47
2	MP1	Z	115.02	47
3	MP1	X	66.41	90
4	MP1	Z	115.02	90
5	MP3	X	172.82	6
6	MP3	Z	299.32	6
7	MP3	X	172.82	90
8	MP3	Z	299.32	90
9	MP4	X	172.82	6
10	MP4	Z	299.32	6
11	MP4	X	172.82	90
12	MP4	Z	299.32	90
13	MP1	X	24.98	60
14	MP1	Z	43.27	60
15	MP1	X	24.98	60
16	MP1	Z	43.27	60
17	MP3	X	44.96	60
18	MP3	Z	77.88	60
19	MP4	X	50.18	60
20	MP4	Z	86.91	60
21	MP4	X	52.12	60
22	MP4	Z	90.28	60
23	MP5	X	66.41	47
24	MP5	Z	115.02	47
25	MP5	X	66.41	90
26	MP5	Z	115.02	90
27	MP7	X	122.28	6
28	MP7	Z	211.8	6
29	MP7	X	122.28	90
30	MP7	Z	211.8	90
31	MP8	X	122.28	6
32	MP8	Z	211.8	6
33	MP8	X	122.28	90
34	MP8	Z	211.8	90
35	MP5	X	24.98	60
36	MP5	Z	43.27	60
37	MP5	X	24.98	60
38	MP5	Z	43.27	60
39	MP7	X	44.96	60
40	MP7	Z	77.88	60
41	MP8	X	50.18	60
42	MP8	Z	86.91	60
43	MP8	X	52.12	60
44	MP8	Z	90.28	60

Member Point Loads (BLC 9 : Wind Load AZI 210) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
45	MP9	X	39.98	47
46	MP9	Z	69.25	47
47	MP9	X	39.98	90
48	MP9	Z	69.25	90
49	MP11	X	223.69	6
50	MP11	Z	387.45	6
51	MP11	X	223.69	90
52	MP11	Z	387.45	90
53	MP12	X	223.69	6
54	MP12	Z	387.45	6
55	MP12	X	223.69	90
56	MP12	Z	387.45	90
57	MP9	X	9.48	60
58	MP9	Z	16.42	60
59	MP9	X	9.48	60
60	MP9	Z	16.42	60
61	MP11	X	28.91	60
62	MP11	Z	50.08	60
63	MP12	X	38.5	60
64	MP12	Z	66.69	60
65	MP12	X	46.29	60
66	MP12	Z	80.17	60

Member Point Loads (BLC 10 : Wind Load AZI 240)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1	X	84.51	47
2	MP1	Z	48.79	47
3	MP1	X	84.51	90
4	MP1	Z	48.79	90
5	MP3	X	402.94	6
6	MP3	Z	232.64	6
7	MP3	X	402.94	90
8	MP3	Z	232.64	90
9	MP4	X	402.94	6
10	MP4	Z	232.64	6
11	MP4	X	402.94	90
12	MP4	Z	232.64	90
13	MP1	X	25.37	60
14	MP1	Z	14.65	60
15	MP1	X	25.37	60
16	MP1	Z	14.65	60
17	MP3	X	59.35	60
18	MP3	Z	34.26	60
19	MP4	X	73.43	60
20	MP4	Z	42.4	60
21	MP4	X	83.54	60
22	MP4	Z	48.23	60
23	MP5	X	130.27	47
24	MP5	Z	75.21	47
25	MP5	X	130.27	90
26	MP5	Z	75.21	90
27	MP7	X	203.75	6
28	MP7	Z	117.64	6
29	MP7	X	203.75	90
30	MP7	Z	117.64	90
31	MP8	X	203.75	6

Member Point Loads (BLC 10 : Wind Load AZI 240) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
32	MP8	Z	117.64	6
33	MP8	X	203.75	90
34	MP8	Z	117.64	90
35	MP5	X	52.22	60
36	MP5	Z	30.15	60
37	MP5	X	52.22	60
38	MP5	Z	30.15	60
39	MP7	X	87.15	60
40	MP7	Z	50.32	60
41	MP8	X	93.65	60
42	MP8	Z	54.07	60
43	MP8	X	93.65	60
44	MP8	Z	54.07	60
45	MP9	X	84.51	47
46	MP9	Z	48.79	47
47	MP9	X	84.51	90
48	MP9	Z	48.79	90
49	MP11	X	275.59	6
50	MP11	Z	159.11	6
51	MP11	X	275.59	90
52	MP11	Z	159.11	90
53	MP12	X	275.59	6
54	MP12	Z	159.11	6
55	MP12	X	275.59	90
56	MP12	Z	159.11	90
57	MP9	X	25.37	60
58	MP9	Z	14.65	60
59	MP9	X	25.37	60
60	MP9	Z	14.65	60
61	MP11	X	59.35	60
62	MP11	Z	34.26	60
63	MP12	X	73.43	60
64	MP12	Z	42.4	60
65	MP12	X	83.54	60
66	MP12	Z	48.23	60

Member Point Loads (BLC 11 : Wind Load AZI 270)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
1	MP1	X	79.97	47
2	MP1	Z	0	47
3	MP1	X	79.97	90
4	MP1	Z	0	90
5	MP3	X	474.56	6
6	MP3	Z	0	6
7	MP3	X	474.56	90
8	MP3	Z	0	90
9	MP4	X	474.56	6
10	MP4	Z	0	6
11	MP4	X	474.56	90
12	MP4	Z	0	90
13	MP1	X	18.96	60
14	MP1	Z	0	60
15	MP1	X	18.96	60
16	MP1	Z	0	60
17	MP3	X	57.83	60
18	MP3	Z	0	60

Member Point Loads (BLC 11 : Wind Load AZI 270) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in, %]
19	MP4	X	77.01	60
20	MP4	Z	0	60
21	MP4	X	92.57	60
22	MP4	Z	0	60
23	MP5	X	132.81	47
24	MP5	Z	0	47
25	MP5	X	132.81	90
26	MP5	Z	0	90
27	MP7	X	345.63	6
28	MP7	Z	0	6
29	MP7	X	345.63	90
30	MP7	Z	0	90
31	MP8	X	345.63	6
32	MP8	Z	0	6
33	MP8	X	345.63	90
34	MP8	Z	0	90
35	MP5	X	49.96	60
36	MP5	Z	0	60
37	MP5	X	49.96	60
38	MP5	Z	0	60
39	MP7	X	89.93	60
40	MP7	Z	0	60
41	MP8	X	100.36	60
42	MP8	Z	0	60
43	MP8	X	104.25	60
44	MP8	Z	0	60
45	MP9	X	132.81	47
46	MP9	Z	0	47
47	MP9	X	132.81	90
48	MP9	Z	0	90
49	MP11	X	225.76	6
50	MP11	Z	0	6
51	MP11	X	225.76	90
52	MP11	Z	0	90
53	MP12	X	225.76	6
54	MP12	Z	0	6
55	MP12	X	225.76	90
56	MP12	Z	0	90
57	MP9	X	49.96	60
58	MP9	Z	0	60
59	MP9	X	49.96	60
60	MP9	Z	0	60
61	MP11	X	89.93	60
62	MP11	Z	0	60
63	MP12	X	100.36	60
64	MP12	Z	0	60
65	MP12	X	104.25	60
66	MP12	Z	0	60

Member Point Loads (BLC 12 : Wind Load AZI 300)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in, %]
1	MP1	X	84.51	47
2	MP1	Z	-48.79	47
3	MP1	X	84.51	90
4	MP1	Z	-48.79	90
5	MP3	X	315.41	6

Member Point Loads (BLC 12 : Wind Load AZI 300) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
6	MP3	Z	-182.1	6
7	MP3	X	315.41	90
8	MP3	Z	-182.1	90
9	MP4	X	315.41	6
10	MP4	Z	-182.1	6
11	MP4	X	315.41	90
12	MP4	Z	-182.1	90
13	MP1	X	25.37	60
14	MP1	Z	-14.65	60
15	MP1	X	25.37	60
16	MP1	Z	-14.65	60
17	MP3	X	59.35	60
18	MP3	Z	-34.26	60
19	MP4	X	73.43	60
20	MP4	Z	-42.4	60
21	MP4	X	83.54	60
22	MP4	Z	-48.23	60
23	MP5	X	84.51	47
24	MP5	Z	-48.79	47
25	MP5	X	84.51	90
26	MP5	Z	-48.79	90
27	MP7	X	402.94	6
28	MP7	Z	-232.64	6
29	MP7	X	402.94	90
30	MP7	Z	-232.64	90
31	MP8	X	402.94	6
32	MP8	Z	-232.64	6
33	MP8	X	402.94	90
34	MP8	Z	-232.64	90
35	MP5	X	25.37	60
36	MP5	Z	-14.65	60
37	MP5	X	25.37	60
38	MP5	Z	-14.65	60
39	MP7	X	59.35	60
40	MP7	Z	-34.26	60
41	MP8	X	73.43	60
42	MP8	Z	-42.4	60
43	MP8	X	83.54	60
44	MP8	Z	-48.23	60
45	MP9	X	130.27	47
46	MP9	Z	-75.21	47
47	MP9	X	130.27	90
48	MP9	Z	-75.21	90
49	MP11	X	227.29	6
50	MP11	Z	-131.22	6
51	MP11	X	227.29	90
52	MP11	Z	-131.22	90
53	MP12	X	227.29	6
54	MP12	Z	-131.22	6
55	MP12	X	227.29	90
56	MP12	Z	-131.22	90
57	MP9	X	52.22	60
58	MP9	Z	-30.15	60
59	MP9	X	52.22	60
60	MP9	Z	-30.15	60
61	MP11	X	87.15	60
62	MP11	Z	-50.32	60

Member Point Loads (BLC 12 : Wind Load AZI 300) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
63	MP12	X	93.65	60
64	MP12	Z	-54.07	60
65	MP12	X	93.65	60
66	MP12	Z	-54.07	60

Member Point Loads (BLC 13 : Wind Load AZI 330)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1	X	66.41	47
2	MP1	Z	-115.02	47
3	MP1	X	66.41	90
4	MP1	Z	-115.02	90
5	MP3	X	122.28	6
6	MP3	Z	-211.8	6
7	MP3	X	122.28	90
8	MP3	Z	-211.8	90
9	MP4	X	122.28	6
10	MP4	Z	-211.8	6
11	MP4	X	122.28	90
12	MP4	Z	-211.8	90
13	MP1	X	24.98	60
14	MP1	Z	-43.27	60
15	MP1	X	24.98	60
16	MP1	Z	-43.27	60
17	MP3	X	44.96	60
18	MP3	Z	-77.88	60
19	MP4	X	50.18	60
20	MP4	Z	-86.91	60
21	MP4	X	52.12	60
22	MP4	Z	-90.28	60
23	MP5	X	39.98	47
24	MP5	Z	-69.25	47
25	MP5	X	39.98	90
26	MP5	Z	-69.25	90
27	MP7	X	237.28	6
28	MP7	Z	-410.98	6
29	MP7	X	237.28	90
30	MP7	Z	-410.98	90
31	MP8	X	237.28	6
32	MP8	Z	-410.98	6
33	MP8	X	237.28	90
34	MP8	Z	-410.98	90
35	MP5	X	9.48	60
36	MP5	Z	-16.42	60
37	MP5	X	9.48	60
38	MP5	Z	-16.42	60
39	MP7	X	28.91	60
40	MP7	Z	-50.08	60
41	MP8	X	38.5	60
42	MP8	Z	-66.69	60
43	MP8	X	46.29	60
44	MP8	Z	-80.17	60
45	MP9	X	66.41	47
46	MP9	Z	-115.02	47
47	MP9	X	66.41	90
48	MP9	Z	-115.02	90
49	MP11	X	195.8	6

Member Point Loads (BLC 13 : Wind Load AZI 330) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
50	MP11	Z	-339.14	6
51	MP11	X	195.8	90
52	MP11	Z	-339.14	90
53	MP12	X	195.8	6
54	MP12	Z	-339.14	6
55	MP12	X	195.8	90
56	MP12	Z	-339.14	90
57	MP9	X	24.98	60
58	MP9	Z	-43.27	60
59	MP9	X	24.98	60
60	MP9	Z	-43.27	60
61	MP11	X	44.96	60
62	MP11	Z	-77.88	60
63	MP12	X	50.18	60
64	MP12	Z	-86.91	60
65	MP12	X	52.12	60
66	MP12	Z	-90.28	60

Member Point Loads (BLC 16 : Ice Weight)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1	Y	-58.665	47
2	MP1	Y	-58.665	90
3	MP3	Y	-165.232	6
4	MP3	Y	-165.232	90
5	MP4	Y	-165.232	6
6	MP4	Y	-165.232	90
7	MP1	Y	-28.687	60
8	MP1	Y	-28.687	60
9	MP3	Y	-58.18	60
10	MP4	Y	-67.129	60
11	MP4	Y	-73.692	60
12	MP5	Y	-58.665	47
13	MP5	Y	-58.665	90
14	MP7	Y	-165.232	6
15	MP7	Y	-165.232	90
16	MP8	Y	-165.232	6
17	MP8	Y	-165.232	90
18	MP5	Y	-28.687	60
19	MP5	Y	-28.687	60
20	MP7	Y	-58.18	60
21	MP8	Y	-67.129	60
22	MP8	Y	-73.692	60
23	MP9	Y	-58.665	47
24	MP9	Y	-58.665	90
25	MP11	Y	-165.232	6
26	MP11	Y	-165.232	90
27	MP12	Y	-165.232	6
28	MP12	Y	-165.232	90
29	MP9	Y	-28.687	60
30	MP9	Y	-28.687	60
31	MP11	Y	-58.18	60
32	MP12	Y	-67.129	60
33	MP12	Y	-73.692	60

Member Point Loads (BLC 17 : Ice Wind Load AZI 0)

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

Member Point Loads (BLC 17 : Ice Wind Load AZI 0) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in, %]
1	MP1	X	0	47
2	MP1	Z	-12.99	47
3	MP1	X	0	90
4	MP1	Z	-12.99	90
5	MP3	X	0	6
6	MP3	Z	-22.45	6
7	MP3	X	0	90
8	MP3	Z	-22.45	90
9	MP4	X	0	6
10	MP4	Z	-22.45	6
11	MP4	X	0	90
12	MP4	Z	-22.45	90
13	MP1	X	0	60
14	MP1	Z	-6.82	60
15	MP1	X	0	60
16	MP1	Z	-6.82	60
17	MP3	X	0	60
18	MP3	Z	-9.22	60
19	MP4	X	0	60
20	MP4	Z	-9.81	60
21	MP4	X	0	60
22	MP4	Z	-9.81	60
23	MP5	X	0	47
24	MP5	Z	-11.14	47
25	MP5	X	0	90
26	MP5	Z	-11.14	90
27	MP7	X	0	6
28	MP7	Z	-29.41	6
29	MP7	X	0	90
30	MP7	Z	-29.41	90
31	MP8	X	0	6
32	MP8	Z	-29.41	6
33	MP8	X	0	90
34	MP8	Z	-29.41	90
35	MP5	X	0	60
36	MP5	Z	-4.75	60
37	MP5	X	0	60
38	MP5	Z	-4.75	60
39	MP7	X	0	60
40	MP7	Z	-7.67	60
41	MP8	X	0	60
42	MP8	Z	-8.67	60
43	MP8	X	0	60
44	MP8	Z	-9.14	60
45	MP9	X	0	47
46	MP9	Z	-11.14	47
47	MP9	X	0	90
48	MP9	Z	-11.14	90
49	MP11	X	0	6
50	MP11	Z	-35.88	6
51	MP11	X	0	90
52	MP11	Z	-35.88	90
53	MP12	X	0	6
54	MP12	Z	-35.88	6
55	MP12	X	0	90
56	MP12	Z	-35.88	90
57	MP9	X	0	60

Member Point Loads (BLC 17 : Ice Wind Load AZI 0) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
58	MP9	Z	-4.75	60
59	MP9	X	0	60
60	MP9	Z	-4.75	60
61	MP11	X	0	60
62	MP11	Z	-7.67	60
63	MP12	X	0	60
64	MP12	Z	-8.67	60
65	MP12	X	0	60
66	MP12	Z	-9.14	60

Member Point Loads (BLC 18 : Ice Wind Load AZI 30)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
1	MP1	X	-6.19	47
2	MP1	Z	-10.72	47
3	MP1	X	-6.19	90
4	MP1	Z	-10.72	90
5	MP3	X	-14.2	6
6	MP3	Z	-24.6	6
7	MP3	X	-14.2	90
8	MP3	Z	-24.6	90
9	MP4	X	-14.2	6
10	MP4	Z	-24.6	6
11	MP4	X	-14.2	90
12	MP4	Z	-24.6	90
13	MP1	X	-3.07	60
14	MP1	Z	-5.31	60
15	MP1	X	-3.07	60
16	MP1	Z	-5.31	60
17	MP3	X	-4.35	60
18	MP3	Z	-7.54	60
19	MP4	X	-4.71	60
20	MP4	Z	-8.17	60
21	MP4	X	-4.79	60
22	MP4	Z	-8.3	60
23	MP5	X	-6.19	47
24	MP5	Z	-10.72	47
25	MP5	X	-6.19	90
26	MP5	Z	-10.72	90
27	MP7	X	-11.47	6
28	MP7	Z	-19.88	6
29	MP7	X	-11.47	90
30	MP7	Z	-19.88	90
31	MP8	X	-11.47	6
32	MP8	Z	-19.88	6
33	MP8	X	-11.47	90
34	MP8	Z	-19.88	90
35	MP5	X	-3.07	60
36	MP5	Z	-5.31	60
37	MP5	X	-3.07	60
38	MP5	Z	-5.31	60
39	MP7	X	-4.35	60
40	MP7	Z	-7.54	60
41	MP8	X	-4.71	60
42	MP8	Z	-8.17	60
43	MP8	X	-4.79	60
44	MP8	Z	-8.3	60

Member Point Loads (BLC 18 : Ice Wind Load AZI 30) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
45	MP9	X	-5.26	47
46	MP9	Z	-9.11	47
47	MP9	X	-5.26	90
48	MP9	Z	-9.11	90
49	MP11	X	-16.95	6
50	MP11	Z	-29.36	6
51	MP11	X	-16.95	90
52	MP11	Z	-29.36	90
53	MP12	X	-16.95	6
54	MP12	Z	-29.36	6
55	MP12	X	-16.95	90
56	MP12	Z	-29.36	90
57	MP9	X	-2.03	60
58	MP9	Z	-3.51	60
59	MP9	X	-2.03	60
60	MP9	Z	-3.51	60
61	MP11	X	-3.57	60
62	MP11	Z	-6.19	60
63	MP12	X	-4.15	60
64	MP12	Z	-7.19	60
65	MP12	X	-4.46	60
66	MP12	Z	-7.73	60

Member Point Loads (BLC 19 : Ice Wind Load AZI 60)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1	X	-9.65	47
2	MP1	Z	-5.57	47
3	MP1	X	-9.65	90
4	MP1	Z	-5.57	90
5	MP3	X	-30.19	6
6	MP3	Z	-17.43	6
7	MP3	X	-30.19	90
8	MP3	Z	-17.43	90
9	MP4	X	-30.19	6
10	MP4	Z	-17.43	6
11	MP4	X	-30.19	90
12	MP4	Z	-17.43	90
13	MP1	X	-4.11	60
14	MP1	Z	-2.37	60
15	MP1	X	-4.11	60
16	MP1	Z	-2.37	60
17	MP3	X	-6.64	60
18	MP3	Z	-3.83	60
19	MP4	X	-7.51	60
20	MP4	Z	-4.34	60
21	MP4	X	-7.92	60
22	MP4	Z	-4.57	60
23	MP5	X	-11.25	47
24	MP5	Z	-6.5	47
25	MP5	X	-11.25	90
26	MP5	Z	-6.5	90
27	MP7	X	-19.44	6
28	MP7	Z	-11.22	6
29	MP7	X	-19.44	90
30	MP7	Z	-11.22	90
31	MP8	X	-19.44	6

Member Point Loads (BLC 19 : Ice Wind Load AZI 60) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
32	MP8	Z	-11.22	6
33	MP8	X	-19.44	90
34	MP8	Z	-11.22	90
35	MP5	X	-5.91	60
36	MP5	Z	-3.41	60
37	MP5	X	-5.91	60
38	MP5	Z	-3.41	60
39	MP7	X	-7.99	60
40	MP7	Z	-4.61	60
41	MP8	X	-8.49	60
42	MP8	Z	-4.9	60
43	MP8	X	-8.49	60
44	MP8	Z	-4.9	60
45	MP9	X	-9.65	47
46	MP9	Z	-5.57	47
47	MP9	X	-9.65	90
48	MP9	Z	-5.57	90
49	MP11	X	-23.32	6
50	MP11	Z	-13.46	6
51	MP11	X	-23.32	90
52	MP11	Z	-13.46	90
53	MP12	X	-23.32	6
54	MP12	Z	-13.46	6
55	MP12	X	-23.32	90
56	MP12	Z	-13.46	90
57	MP9	X	-4.11	60
58	MP9	Z	-2.37	60
59	MP9	X	-4.11	60
60	MP9	Z	-2.37	60
61	MP11	X	-6.64	60
62	MP11	Z	-3.83	60
63	MP12	X	-7.51	60
64	MP12	Z	-4.34	60
65	MP12	X	-7.92	60
66	MP12	Z	-4.57	60

Member Point Loads (BLC 20 : Ice Wind Load AZI 90)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
1	MP1	X	-10.52	47
2	MP1	Z	0	47
3	MP1	X	-10.52	90
4	MP1	Z	0	90
5	MP3	X	-35.37	6
6	MP3	Z	0	6
7	MP3	X	-35.37	90
8	MP3	Z	0	90
9	MP4	X	-35.37	6
10	MP4	Z	0	6
11	MP4	X	-35.37	90
12	MP4	Z	0	90
13	MP1	X	-4.06	60
14	MP1	Z	0	60
15	MP1	X	-4.06	60
16	MP1	Z	0	60
17	MP3	X	-7.15	60
18	MP3	Z	0	60

Member Point Loads (BLC 20 : Ice Wind Load AZI 90) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in, %]
19	MP4	X	-8.3	60
20	MP4	Z	0	60
21	MP4	X	-8.92	60
22	MP4	Z	0	60
23	MP5	X	-12.38	47
24	MP5	Z	0	47
25	MP5	X	-12.38	90
26	MP5	Z	0	90
27	MP7	X	-28.41	6
28	MP7	Z	0	6
29	MP7	X	-28.41	90
30	MP7	Z	0	90
31	MP8	X	-28.41	6
32	MP8	Z	0	6
33	MP8	X	-28.41	90
34	MP8	Z	0	90
35	MP5	X	-6.13	60
36	MP5	Z	0	60
37	MP5	X	-6.13	60
38	MP5	Z	0	60
39	MP7	X	-8.7	60
40	MP7	Z	0	60
41	MP8	X	-9.43	60
42	MP8	Z	0	60
43	MP8	X	-9.59	60
44	MP8	Z	0	60
45	MP9	X	-12.38	47
46	MP9	Z	0	47
47	MP9	X	-12.38	90
48	MP9	Z	0	90
49	MP11	X	-21.93	6
50	MP11	Z	0	6
51	MP11	X	-21.93	90
52	MP11	Z	0	90
53	MP12	X	-21.93	6
54	MP12	Z	0	6
55	MP12	X	-21.93	90
56	MP12	Z	0	90
57	MP9	X	-6.13	60
58	MP9	Z	0	60
59	MP9	X	-6.13	60
60	MP9	Z	0	60
61	MP11	X	-8.7	60
62	MP11	Z	0	60
63	MP12	X	-9.43	60
64	MP12	Z	0	60
65	MP12	X	-9.59	60
66	MP12	Z	0	60

Member Point Loads (BLC 21 : Ice Wind Load AZI 120)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in, %]
1	MP1	X	-9.65	47
2	MP1	Z	5.57	47
3	MP1	X	-9.65	90
4	MP1	Z	5.57	90
5	MP3	X	-25.47	6

Member Point Loads (BLC 21 : Ice Wind Load AZI 120) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
6	MP3	Z	14.7	6
7	MP3	X	-25.47	90
8	MP3	Z	14.7	90
9	MP4	X	-25.47	6
10	MP4	Z	14.7	6
11	MP4	X	-25.47	90
12	MP4	Z	14.7	90
13	MP1	X	-4.11	60
14	MP1	Z	2.37	60
15	MP1	X	-4.11	60
16	MP1	Z	2.37	60
17	MP3	X	-6.64	60
18	MP3	Z	3.83	60
19	MP4	X	-7.51	60
20	MP4	Z	4.34	60
21	MP4	X	-7.92	60
22	MP4	Z	4.57	60
23	MP5	X	-9.65	47
24	MP5	Z	5.57	47
25	MP5	X	-9.65	90
26	MP5	Z	5.57	90
27	MP7	X	-30.19	6
28	MP7	Z	17.43	6
29	MP7	X	-30.19	90
30	MP7	Z	17.43	90
31	MP8	X	-30.19	6
32	MP8	Z	17.43	6
33	MP8	X	-30.19	90
34	MP8	Z	17.43	90
35	MP5	X	-4.11	60
36	MP5	Z	2.37	60
37	MP5	X	-4.11	60
38	MP5	Z	2.37	60
39	MP7	X	-6.64	60
40	MP7	Z	3.83	60
41	MP8	X	-7.51	60
42	MP8	Z	4.34	60
43	MP8	X	-7.92	60
44	MP8	Z	4.57	60
45	MP9	X	-11.25	47
46	MP9	Z	6.5	47
47	MP9	X	-11.25	90
48	MP9	Z	6.5	90
49	MP11	X	-20.71	6
50	MP11	Z	11.96	6
51	MP11	X	-20.71	90
52	MP11	Z	11.96	90
53	MP12	X	-20.71	6
54	MP12	Z	11.96	6
55	MP12	X	-20.71	90
56	MP12	Z	11.96	90
57	MP9	X	-5.91	60
58	MP9	Z	3.41	60
59	MP9	X	-5.91	60
60	MP9	Z	3.41	60
61	MP11	X	-7.99	60
62	MP11	Z	4.61	60

Member Point Loads (BLC 21 : Ice Wind Load AZI 120) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in, %]
63	MP12	X	-8.49	60
64	MP12	Z	4.9	60
65	MP12	X	-8.49	60
66	MP12	Z	4.9	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in, %]
1	MP1	X	-6.19	47
2	MP1	Z	10.72	47
3	MP1	X	-6.19	90
4	MP1	Z	10.72	90
5	MP3	X	-11.47	6
6	MP3	Z	19.88	6
7	MP3	X	-11.47	90
8	MP3	Z	19.88	90
9	MP4	X	-11.47	6
10	MP4	Z	19.88	6
11	MP4	X	-11.47	90
12	MP4	Z	19.88	90
13	MP1	X	-3.07	60
14	MP1	Z	5.31	60
15	MP1	X	-3.07	60
16	MP1	Z	5.31	60
17	MP3	X	-4.35	60
18	MP3	Z	7.54	60
19	MP4	X	-4.71	60
20	MP4	Z	8.17	60
21	MP4	X	-4.79	60
22	MP4	Z	8.3	60
23	MP5	X	-5.26	47
24	MP5	Z	9.11	47
25	MP5	X	-5.26	90
26	MP5	Z	9.11	90
27	MP7	X	-17.68	6
28	MP7	Z	30.63	6
29	MP7	X	-17.68	90
30	MP7	Z	30.63	90
31	MP8	X	-17.68	6
32	MP8	Z	30.63	6
33	MP8	X	-17.68	90
34	MP8	Z	30.63	90
35	MP5	X	-2.03	60
36	MP5	Z	3.51	60
37	MP5	X	-2.03	60
38	MP5	Z	3.51	60
39	MP7	X	-3.57	60
40	MP7	Z	6.19	60
41	MP8	X	-4.15	60
42	MP8	Z	7.19	60
43	MP8	X	-4.46	60
44	MP8	Z	7.73	60
45	MP9	X	-6.19	47
46	MP9	Z	10.72	47
47	MP9	X	-6.19	90
48	MP9	Z	10.72	90
49	MP11	X	-15.44	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
50	MP11	Z	26.75	6
51	MP11	X	-15.44	90
52	MP11	Z	26.75	90
53	MP12	X	-15.44	6
54	MP12	Z	26.75	6
55	MP12	X	-15.44	90
56	MP12	Z	26.75	90
57	MP9	X	-3.07	60
58	MP9	Z	5.31	60
59	MP9	X	-3.07	60
60	MP9	Z	5.31	60
61	MP11	X	-4.35	60
62	MP11	Z	7.54	60
63	MP12	X	-4.71	60
64	MP12	Z	8.17	60
65	MP12	X	-4.79	60
66	MP12	Z	8.3	60

Member Point Loads (BLC 23 : Ice Wind Load AZI 180)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1	X	0	47
2	MP1	Z	12.99	47
3	MP1	X	0	90
4	MP1	Z	12.99	90
5	MP3	X	0	6
6	MP3	Z	22.45	6
7	MP3	X	0	90
8	MP3	Z	22.45	90
9	MP4	X	0	6
10	MP4	Z	22.45	6
11	MP4	X	0	90
12	MP4	Z	22.45	90
13	MP1	X	0	60
14	MP1	Z	6.82	60
15	MP1	X	0	60
16	MP1	Z	6.82	60
17	MP3	X	0	60
18	MP3	Z	9.22	60
19	MP4	X	0	60
20	MP4	Z	9.81	60
21	MP4	X	0	60
22	MP4	Z	9.81	60
23	MP5	X	0	47
24	MP5	Z	11.14	47
25	MP5	X	0	90
26	MP5	Z	11.14	90
27	MP7	X	0	6
28	MP7	Z	29.41	6
29	MP7	X	0	90
30	MP7	Z	29.41	90
31	MP8	X	0	6
32	MP8	Z	29.41	6
33	MP8	X	0	90
34	MP8	Z	29.41	90
35	MP5	X	0	60
36	MP5	Z	4.75	60

Member Point Loads (BLC 23 : Ice Wind Load AZI 180) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
37	MP5	X	0	60
38	MP5	Z	4.75	60
39	MP7	X	0	60
40	MP7	Z	7.67	60
41	MP8	X	0	60
42	MP8	Z	8.67	60
43	MP8	X	0	60
44	MP8	Z	9.14	60
45	MP9	X	0	47
46	MP9	Z	11.14	47
47	MP9	X	0	90
48	MP9	Z	11.14	90
49	MP11	X	0	6
50	MP11	Z	35.88	6
51	MP11	X	0	90
52	MP11	Z	35.88	90
53	MP12	X	0	6
54	MP12	Z	35.88	6
55	MP12	X	0	90
56	MP12	Z	35.88	90
57	MP9	X	0	60
58	MP9	Z	4.75	60
59	MP9	X	0	60
60	MP9	Z	4.75	60
61	MP11	X	0	60
62	MP11	Z	7.67	60
63	MP12	X	0	60
64	MP12	Z	8.67	60
65	MP12	X	0	60
66	MP12	Z	9.14	60

Member Point Loads (BLC 24 : Ice Wind Load AZI 210)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
1	MP1	X	6.19	47
2	MP1	Z	10.72	47
3	MP1	X	6.19	90
4	MP1	Z	10.72	90
5	MP3	X	14.2	6
6	MP3	Z	24.6	6
7	MP3	X	14.2	90
8	MP3	Z	24.6	90
9	MP4	X	14.2	6
10	MP4	Z	24.6	6
11	MP4	X	14.2	90
12	MP4	Z	24.6	90
13	MP1	X	3.07	60
14	MP1	Z	5.31	60
15	MP1	X	3.07	60
16	MP1	Z	5.31	60
17	MP3	X	4.35	60
18	MP3	Z	7.54	60
19	MP4	X	4.71	60
20	MP4	Z	8.17	60
21	MP4	X	4.79	60
22	MP4	Z	8.3	60
23	MP5	X	6.19	47

Member Point Loads (BLC 24 : Ice Wind Load AZI 210) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
24	MP5	Z	10.72	47
25	MP5	X	6.19	90
26	MP5	Z	10.72	90
27	MP7	X	11.47	6
28	MP7	Z	19.88	6
29	MP7	X	11.47	90
30	MP7	Z	19.88	90
31	MP8	X	11.47	6
32	MP8	Z	19.88	6
33	MP8	X	11.47	90
34	MP8	Z	19.88	90
35	MP5	X	3.07	60
36	MP5	Z	5.31	60
37	MP5	X	3.07	60
38	MP5	Z	5.31	60
39	MP7	X	4.35	60
40	MP7	Z	7.54	60
41	MP8	X	4.71	60
42	MP8	Z	8.17	60
43	MP8	X	4.79	60
44	MP8	Z	8.3	60
45	MP9	X	5.26	47
46	MP9	Z	9.11	47
47	MP9	X	5.26	90
48	MP9	Z	9.11	90
49	MP11	X	16.95	6
50	MP11	Z	29.36	6
51	MP11	X	16.95	90
52	MP11	Z	29.36	90
53	MP12	X	16.95	6
54	MP12	Z	29.36	6
55	MP12	X	16.95	90
56	MP12	Z	29.36	90
57	MP9	X	2.03	60
58	MP9	Z	3.51	60
59	MP9	X	2.03	60
60	MP9	Z	3.51	60
61	MP11	X	3.57	60
62	MP11	Z	6.19	60
63	MP12	X	4.15	60
64	MP12	Z	7.19	60
65	MP12	X	4.46	60
66	MP12	Z	7.73	60

Member Point Loads (BLC 25 : Ice Wind Load AZI 240)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
1	MP1	X	9.65	47
2	MP1	Z	5.57	47
3	MP1	X	9.65	90
4	MP1	Z	5.57	90
5	MP3	X	30.19	6
6	MP3	Z	17.43	6
7	MP3	X	30.19	90
8	MP3	Z	17.43	90
9	MP4	X	30.19	6
10	MP4	Z	17.43	6

Member Point Loads (BLC 25 : Ice Wind Load AZI 240) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
11	MP4	X	30.19	90
12	MP4	Z	17.43	90
13	MP1	X	4.11	60
14	MP1	Z	2.37	60
15	MP1	X	4.11	60
16	MP1	Z	2.37	60
17	MP3	X	6.64	60
18	MP3	Z	3.83	60
19	MP4	X	7.51	60
20	MP4	Z	4.34	60
21	MP4	X	7.92	60
22	MP4	Z	4.57	60
23	MP5	X	11.25	47
24	MP5	Z	6.5	47
25	MP5	X	11.25	90
26	MP5	Z	6.5	90
27	MP7	X	19.44	6
28	MP7	Z	11.22	6
29	MP7	X	19.44	90
30	MP7	Z	11.22	90
31	MP8	X	19.44	6
32	MP8	Z	11.22	6
33	MP8	X	19.44	90
34	MP8	Z	11.22	90
35	MP5	X	5.91	60
36	MP5	Z	3.41	60
37	MP5	X	5.91	60
38	MP5	Z	3.41	60
39	MP7	X	7.99	60
40	MP7	Z	4.61	60
41	MP8	X	8.49	60
42	MP8	Z	4.9	60
43	MP8	X	8.49	60
44	MP8	Z	4.9	60
45	MP9	X	9.65	47
46	MP9	Z	5.57	47
47	MP9	X	9.65	90
48	MP9	Z	5.57	90
49	MP11	X	23.32	6
50	MP11	Z	13.46	6
51	MP11	X	23.32	90
52	MP11	Z	13.46	90
53	MP12	X	23.32	6
54	MP12	Z	13.46	6
55	MP12	X	23.32	90
56	MP12	Z	13.46	90
57	MP9	X	4.11	60
58	MP9	Z	2.37	60
59	MP9	X	4.11	60
60	MP9	Z	2.37	60
61	MP11	X	6.64	60
62	MP11	Z	3.83	60
63	MP12	X	7.51	60
64	MP12	Z	4.34	60
65	MP12	X	7.92	60
66	MP12	Z	4.57	60

Member Point Loads (BLC 26 : Ice Wind Load AZI 270)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in, %]
1	MP1	X	10.52	47
2	MP1	Z	0	47
3	MP1	X	10.52	90
4	MP1	Z	0	90
5	MP3	X	35.37	6
6	MP3	Z	0	6
7	MP3	X	35.37	90
8	MP3	Z	0	90
9	MP4	X	35.37	6
10	MP4	Z	0	6
11	MP4	X	35.37	90
12	MP4	Z	0	90
13	MP1	X	4.06	60
14	MP1	Z	0	60
15	MP1	X	4.06	60
16	MP1	Z	0	60
17	MP3	X	7.15	60
18	MP3	Z	0	60
19	MP4	X	8.3	60
20	MP4	Z	0	60
21	MP4	X	8.92	60
22	MP4	Z	0	60
23	MP5	X	12.38	47
24	MP5	Z	0	47
25	MP5	X	12.38	90
26	MP5	Z	0	90
27	MP7	X	28.41	6
28	MP7	Z	0	6
29	MP7	X	28.41	90
30	MP7	Z	0	90
31	MP8	X	28.41	6
32	MP8	Z	0	6
33	MP8	X	28.41	90
34	MP8	Z	0	90
35	MP5	X	6.13	60
36	MP5	Z	0	60
37	MP5	X	6.13	60
38	MP5	Z	0	60
39	MP7	X	8.7	60
40	MP7	Z	0	60
41	MP8	X	9.43	60
42	MP8	Z	0	60
43	MP8	X	9.59	60
44	MP8	Z	0	60
45	MP9	X	12.38	47
46	MP9	Z	0	47
47	MP9	X	12.38	90
48	MP9	Z	0	90
49	MP11	X	21.93	6
50	MP11	Z	0	6
51	MP11	X	21.93	90
52	MP11	Z	0	90
53	MP12	X	21.93	6
54	MP12	Z	0	6
55	MP12	X	21.93	90
56	MP12	Z	0	90
57	MP9	X	6.13	60

Member Point Loads (BLC 26 : Ice Wind Load AZI 270) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP9	Z	0	60
59	MP9	X	6.13	60
60	MP9	Z	0	60
61	MP11	X	8.7	60
62	MP11	Z	0	60
63	MP12	X	9.43	60
64	MP12	Z	0	60
65	MP12	X	9.59	60
66	MP12	Z	0	60

Member Point Loads (BLC 27 : Ice Wind Load AZI 300)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1	X	9.65	47
2	MP1	Z	-5.57	47
3	MP1	X	9.65	90
4	MP1	Z	-5.57	90
5	MP3	X	25.47	6
6	MP3	Z	-14.7	6
7	MP3	X	25.47	90
8	MP3	Z	-14.7	90
9	MP4	X	25.47	6
10	MP4	Z	-14.7	6
11	MP4	X	25.47	90
12	MP4	Z	-14.7	90
13	MP1	X	4.11	60
14	MP1	Z	-2.37	60
15	MP1	X	4.11	60
16	MP1	Z	-2.37	60
17	MP3	X	6.64	60
18	MP3	Z	-3.83	60
19	MP4	X	7.51	60
20	MP4	Z	-4.34	60
21	MP4	X	7.92	60
22	MP4	Z	-4.57	60
23	MP5	X	9.65	47
24	MP5	Z	-5.57	47
25	MP5	X	9.65	90
26	MP5	Z	-5.57	90
27	MP7	X	30.19	6
28	MP7	Z	-17.43	6
29	MP7	X	30.19	90
30	MP7	Z	-17.43	90
31	MP8	X	30.19	6
32	MP8	Z	-17.43	6
33	MP8	X	30.19	90
34	MP8	Z	-17.43	90
35	MP5	X	4.11	60
36	MP5	Z	-2.37	60
37	MP5	X	4.11	60
38	MP5	Z	-2.37	60
39	MP7	X	6.64	60
40	MP7	Z	-3.83	60
41	MP8	X	7.51	60
42	MP8	Z	-4.34	60
43	MP8	X	7.92	60
44	MP8	Z	-4.57	60

Member Point Loads (BLC 27 : Ice Wind Load AZI 300) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
45	MP9	X	11.25	47
46	MP9	Z	-6.5	47
47	MP9	X	11.25	90
48	MP9	Z	-6.5	90
49	MP11	X	20.71	6
50	MP11	Z	-11.96	6
51	MP11	X	20.71	90
52	MP11	Z	-11.96	90
53	MP12	X	20.71	6
54	MP12	Z	-11.96	6
55	MP12	X	20.71	90
56	MP12	Z	-11.96	90
57	MP9	X	5.91	60
58	MP9	Z	-3.41	60
59	MP9	X	5.91	60
60	MP9	Z	-3.41	60
61	MP11	X	7.99	60
62	MP11	Z	-4.61	60
63	MP12	X	8.49	60
64	MP12	Z	-4.9	60
65	MP12	X	8.49	60
66	MP12	Z	-4.9	60

Member Point Loads (BLC 28 : Ice Wind Load AZI 330)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1	X	6.19	47
2	MP1	Z	-10.72	47
3	MP1	X	6.19	90
4	MP1	Z	-10.72	90
5	MP3	X	11.47	6
6	MP3	Z	-19.88	6
7	MP3	X	11.47	90
8	MP3	Z	-19.88	90
9	MP4	X	11.47	6
10	MP4	Z	-19.88	6
11	MP4	X	11.47	90
12	MP4	Z	-19.88	90
13	MP1	X	3.07	60
14	MP1	Z	-5.31	60
15	MP1	X	3.07	60
16	MP1	Z	-5.31	60
17	MP3	X	4.35	60
18	MP3	Z	-7.54	60
19	MP4	X	4.71	60
20	MP4	Z	-8.17	60
21	MP4	X	4.79	60
22	MP4	Z	-8.3	60
23	MP5	X	5.26	47
24	MP5	Z	-9.11	47
25	MP5	X	5.26	90
26	MP5	Z	-9.11	90
27	MP7	X	17.68	6
28	MP7	Z	-30.63	6
29	MP7	X	17.68	90
30	MP7	Z	-30.63	90
31	MP8	X	17.68	6

Member Point Loads (BLC 28 : Ice Wind Load AZI 330) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
32	MP8	Z	-30.63	6
33	MP8	X	17.68	90
34	MP8	Z	-30.63	90
35	MP5	X	2.03	60
36	MP5	Z	-3.51	60
37	MP5	X	2.03	60
38	MP5	Z	-3.51	60
39	MP7	X	3.57	60
40	MP7	Z	-6.19	60
41	MP8	X	4.15	60
42	MP8	Z	-7.19	60
43	MP8	X	4.46	60
44	MP8	Z	-7.73	60
45	MP9	X	6.19	47
46	MP9	Z	-10.72	47
47	MP9	X	6.19	90
48	MP9	Z	-10.72	90
49	MP11	X	15.44	6
50	MP11	Z	-26.75	6
51	MP11	X	15.44	90
52	MP11	Z	-26.75	90
53	MP12	X	15.44	6
54	MP12	Z	-26.75	6
55	MP12	X	15.44	90
56	MP12	Z	-26.75	90
57	MP9	X	3.07	60
58	MP9	Z	-5.31	60
59	MP9	X	3.07	60
60	MP9	Z	-5.31	60
61	MP11	X	4.35	60
62	MP11	Z	-7.54	60
63	MP12	X	4.71	60
64	MP12	Z	-8.17	60
65	MP12	X	4.79	60
66	MP12	Z	-8.3	60

Member Point Loads (BLC 31 : Seismic Load Z)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
1	MP1	Z	-1.605	47
2	MP1	Z	-1.605	90
3	MP3	Z	-4.389	6
4	MP3	Z	-4.389	90
5	MP4	Z	-4.389	6
6	MP4	Z	-4.389	90
7	MP1	Z	-1.293	60
8	MP1	Z	-1.293	60
9	MP3	Z	-5.495	60
10	MP4	Z	-6.421	60
11	MP4	Z	-6.88	60
12	MP5	Z	-1.605	47
13	MP5	Z	-1.605	90
14	MP7	Z	-4.389	6
15	MP7	Z	-4.389	90
16	MP8	Z	-4.389	6
17	MP8	Z	-4.389	90
18	MP5	Z	-1.293	60

Member Point Loads (BLC 31 : Seismic Load Z) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
19	MP5	Z	-1.293	60
20	MP7	Z	-5.495	60
21	MP8	Z	-6.421	60
22	MP8	Z	-6.88	60
23	MP9	Z	-1.605	47
24	MP9	Z	-1.605	90
25	MP11	Z	-4.389	6
26	MP11	Z	-4.389	90
27	MP12	Z	-4.389	6
28	MP12	Z	-4.389	90
29	MP9	Z	-1.293	60
30	MP9	Z	-1.293	60
31	MP11	Z	-5.495	60
32	MP12	Z	-6.421	60
33	MP12	Z	-6.88	60

Member Point Loads (BLC 32 : Seismic Load X)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
1	MP1	X	-1.605	47
2	MP1	X	-1.605	90
3	MP3	X	-4.389	6
4	MP3	X	-4.389	90
5	MP4	X	-4.389	6
6	MP4	X	-4.389	90
7	MP1	X	-1.293	60
8	MP1	X	-1.293	60
9	MP3	X	-5.495	60
10	MP4	X	-6.421	60
11	MP4	X	-6.88	60
12	MP5	X	-1.605	47
13	MP5	X	-1.605	90
14	MP7	X	-4.389	6
15	MP7	X	-4.389	90
16	MP8	X	-4.389	6
17	MP8	X	-4.389	90
18	MP5	X	-1.293	60
19	MP5	X	-1.293	60
20	MP7	X	-5.495	60
21	MP8	X	-6.421	60
22	MP8	X	-6.88	60
23	MP9	X	-1.605	47
24	MP9	X	-1.605	90
25	MP11	X	-4.389	6
26	MP11	X	-4.389	90
27	MP12	X	-4.389	6
28	MP12	X	-4.389	90
29	MP9	X	-1.293	60
30	MP9	X	-1.293	60
31	MP11	X	-5.495	60
32	MP12	X	-6.421	60
33	MP12	X	-6.88	60

Joint Loads and Enforced Displacements (BLC 33 : Service Live Loads)

	Joint Label	L,D,M	Direction	Magnitude[(lb.k-ft), (in.rad), (lb*s^2...
1	N156	L	Y	-500

Joint Loads and Enforced Displacements (BLC 34 : Maintenance Load 1)

	Joint Label	L,D,M	Direction	Magnitude[(lb.k-ft), (in.rad), (lb*s^2...
1	N155	L	Y	-500

Joint Loads and Enforced Displacements (BLC 35 : Maintenance Load 2)

	Joint Label	L,D,M	Direction	Magnitude[(lb.k-ft), (in.rad), (lb*s^2...
1	N43	L	Y	-500

Joint Loads and Enforced Displacements (BLC 36 : Maintenance Load 3)

	Joint Label	L,D,M	Direction	Magnitude[(lb.k-ft), (in.rad), (lb*s^2...
1	N146	L	Y	-500

Joint Loads and Enforced Displacements (BLC 37 : Maintenance Load 4)

	Joint Label	L,D,M	Direction	Magnitude[(lb.k-ft), (in.rad), (lb*s^2...
1	N156	L	Y	-500

Joint Loads and Enforced Displacements (BLC 38 : Maintenance Load 5)

	Joint Label	L,D,M	Direction	Magnitude[(lb.k-ft), (in.rad), (lb*s^2...
1	N179	L	Y	-500

Joint Loads and Enforced Displacements (BLC 39 : Maintenance Load 6)

	Joint Label	L,D,M	Direction	Magnitude[(lb.k-ft), (in.rad), (lb*s^2...
1	N175	L	Y	-500

Joint Loads and Enforced Displacements (BLC 40 : Maintenance Load 7)

	Joint Label	L,D,M	Direction	Magnitude[(lb.k-ft), (in.rad), (lb*s^2...
1	N184	L	Y	-500

Joint Loads and Enforced Displacements (BLC 41 : Maintenance Load 8)

	Joint Label	L,D,M	Direction	Magnitude[(lb.k-ft), (in.rad), (lb*s^2...
1	N190	L	Y	-500

Joint Loads and Enforced Displacements (BLC 42 : Maintenance Load 9)

	Joint Label	L,D,M	Direction	Magnitude[(lb.k-ft), (in.rad), (lb*s^2...
1	N166	L	Y	-500

Joint Loads and Enforced Displacements (BLC 43 : Maintenance Load 10)

	Joint Label	L,D,M	Direction	Magnitude[(lb.k-ft), (in.rad), (lb*s^2...
1	N160	L	Y	-500

Joint Loads and Enforced Displacements (BLC 44 : Maintenance Load 11)

	Joint Label	L,D,M	Direction	Magnitude[(lb.k-ft), (in.rad), (lb*s^2...
1	N169	L	Y	-500

Joint Loads and Enforced Displacements (BLC 45 : Maintenance Load 12)

	Joint Label	L,D,M	Direction	Magnitude[(lb.k-ft), (in.rad), (lb*s^2...
1	N172	L	Y	-500

Member Distributed Loads (BLC 14 : Distr. Wind Load Z)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	M1	SZ	-72.822	-72.822	0	%100
2	M2	SZ	-72.822	-72.822	0	%100
3	M3	SZ	-72.822	-72.822	0	%100
4	M4	SZ	-72.822	-72.822	0	%100
5	M5	SZ	-72.822	-72.822	0	%100
6	M6	SZ	-72.822	-72.822	0	%100
7	M7	SZ	-72.822	-72.822	0	%100
8	M8	SZ	-72.822	-72.822	0	%100
9	M9	SZ	-72.822	-72.822	0	%100
10	M10	SZ	-72.822	-72.822	0	%100
11	M11	SZ	-72.822	-72.822	0	%100
12	M12	SZ	-72.822	-72.822	0	%100
13	M13	SZ	-72.822	-72.822	0	%100
14	M14	SZ	-121.37	-121.37	0	%100
15	M15	SZ	-121.37	-121.37	0	%100
16	M16	SZ	-72.822	-72.822	0	%100
17	M17	SZ	-72.822	-72.822	0	%100
18	M18	SZ	-72.822	-72.822	0	%100
19	M19	SZ	-72.822	-72.822	0	%100
20	M20	SZ	-72.822	-72.822	0	%100
21	M21	SZ	-72.822	-72.822	0	%100
22	M22	SZ	-72.822	-72.822	0	%100
23	M23	SZ	-72.822	-72.822	0	%100
24	M24	SZ	-72.822	-72.822	0	%100
25	M25	SZ	0	0	0	%100
26	M26	SZ	0	0	0	%100
27	M27	SZ	0	0	0	%100
28	M28	SZ	0	0	0	%100
29	M29	SZ	0	0	0	%100
30	M30	SZ	0	0	0	%100
31	M31	SZ	-72.822	-72.822	0	%100
32	M32	SZ	-72.822	-72.822	0	%100
33	M33	SZ	-72.822	-72.822	0	%100
34	M34	SZ	-72.822	-72.822	0	%100
35	M35	SZ	-72.822	-72.822	0	%100
36	M36	SZ	-72.822	-72.822	0	%100
37	M37	SZ	-72.822	-72.822	0	%100
38	M38	SZ	-72.822	-72.822	0	%100
39	M39	SZ	-72.822	-72.822	0	%100
40	M40	SZ	-72.822	-72.822	0	%100
41	M41	SZ	-72.822	-72.822	0	%100
42	M42	SZ	-72.822	-72.822	0	%100
43	M43	SZ	-72.822	-72.822	0	%100
44	M44	SZ	-121.37	-121.37	0	%100
45	M45	SZ	-121.37	-121.37	0	%100
46	M46	SZ	-72.822	-72.822	0	%100
47	M47	SZ	-72.822	-72.822	0	%100
48	M48	SZ	-72.822	-72.822	0	%100
49	M49	SZ	-72.822	-72.822	0	%100
50	M50	SZ	-72.822	-72.822	0	%100
51	M51	SZ	-72.822	-72.822	0	%100
52	M52	SZ	-72.822	-72.822	0	%100
53	M53	SZ	-72.822	-72.822	0	%100
54	M54	SZ	-72.822	-72.822	0	%100
55	M55	SZ	-72.822	-72.822	0	%100
56	M56	SZ	0	0	0	%100

Member Distributed Loads (BLC 14 : Distr. Wind Load Z) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
57	M57	SZ	0	0	%100
58	M58	SZ	0	0	%100
59	M59	SZ	0	0	%100
60	M60	SZ	0	0	%100
61	M61	SZ	0	0	%100
62	M62	SZ	-72.822	-72.822	%100
63	M63	SZ	-72.822	-72.822	%100
64	M64	SZ	-72.822	-72.822	%100
65	M65	SZ	-72.822	-72.822	%100
66	M66	SZ	-72.822	-72.822	%100
67	M67	SZ	-72.822	-72.822	%100
68	M68	SZ	-72.822	-72.822	%100
69	M69	SZ	-72.822	-72.822	%100
70	M70	SZ	-72.822	-72.822	%100
71	M71	SZ	-72.822	-72.822	%100
72	M72	SZ	-72.822	-72.822	%100
73	M73	SZ	-72.822	-72.822	%100
74	M74	SZ	-72.822	-72.822	%100
75	M75	SZ	-121.37	-121.37	%100
76	M76	SZ	-121.37	-121.37	%100
77	M77	SZ	-72.822	-72.822	%100
78	M78	SZ	-72.822	-72.822	%100
79	M79	SZ	-72.822	-72.822	%100
80	M80	SZ	-72.822	-72.822	%100
81	M81	SZ	-72.822	-72.822	%100
82	M82	SZ	-72.822	-72.822	%100
83	M83	SZ	-72.822	-72.822	%100
84	M84	SZ	-72.822	-72.822	%100
85	M85	SZ	-72.822	-72.822	%100
86	M86	SZ	-72.822	-72.822	%100
87	M87	SZ	0	0	%100
88	M88	SZ	0	0	%100
89	M89	SZ	0	0	%100
90	M90	SZ	0	0	%100
91	M91	SZ	0	0	%100
92	M92	SZ	0	0	%100
93	M93	SZ	-121.37	-121.37	%100
94	M94	SZ	-121.37	-121.37	%100
95	M95	SZ	-121.37	-121.37	%100
96	M96	SZ	-72.822	-72.822	%100
97	MP1	SZ	-72.822	-72.822	%100
98	MP2	SZ	-72.822	-72.822	%100
99	MP3	SZ	-72.822	-72.822	%100
100	MP4	SZ	-72.822	-72.822	%100
101	MP5	SZ	-72.822	-72.822	%100
102	MP6	SZ	-72.822	-72.822	%100
103	MP7	SZ	-72.822	-72.822	%100
104	MP8	SZ	-72.822	-72.822	%100
105	MP9	SZ	-72.822	-72.822	%100
106	MP10	SZ	-72.822	-72.822	%100
107	MP11	SZ	-72.822	-72.822	%100
108	MP12	SZ	-72.822	-72.822	%100

Member Distributed Loads (BLC 15 : Distr. Wind Load X)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	M1	SX	-72.822	0	%100

Member Distributed Loads (BLC 15 : Distr. Wind Load X) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in,%]	End Location[in,%]
2	M2	SX	-72.822	-72.822	0 %100
3	M3	SX	-72.822	-72.822	0 %100
4	M4	SX	-72.822	-72.822	0 %100
5	M5	SX	-72.822	-72.822	0 %100
6	M6	SX	-72.822	-72.822	0 %100
7	M7	SX	-72.822	-72.822	0 %100
8	M8	SX	-72.822	-72.822	0 %100
9	M9	SX	-72.822	-72.822	0 %100
10	M10	SX	-72.822	-72.822	0 %100
11	M11	SX	-72.822	-72.822	0 %100
12	M12	SX	-72.822	-72.822	0 %100
13	M13	SX	-72.822	-72.822	0 %100
14	M14	SX	-121.37	-121.37	0 %100
15	M15	SX	-121.37	-121.37	0 %100
16	M16	SX	-72.822	-72.822	0 %100
17	M17	SX	-72.822	-72.822	0 %100
18	M18	SX	-72.822	-72.822	0 %100
19	M19	SX	-72.822	-72.822	0 %100
20	M20	SX	-72.822	-72.822	0 %100
21	M21	SX	-72.822	-72.822	0 %100
22	M22	SX	-72.822	-72.822	0 %100
23	M23	SX	-72.822	-72.822	0 %100
24	M24	SX	-72.822	-72.822	0 %100
25	M25	SX	0	0	0 %100
26	M26	SX	0	0	0 %100
27	M27	SX	0	0	0 %100
28	M28	SX	0	0	0 %100
29	M29	SX	0	0	0 %100
30	M30	SX	0	0	0 %100
31	M31	SX	-72.822	-72.822	0 %100
32	M32	SX	-72.822	-72.822	0 %100
33	M33	SX	-72.822	-72.822	0 %100
34	M34	SX	-72.822	-72.822	0 %100
35	M35	SX	-72.822	-72.822	0 %100
36	M36	SX	-72.822	-72.822	0 %100
37	M37	SX	-72.822	-72.822	0 %100
38	M38	SX	-72.822	-72.822	0 %100
39	M39	SX	-72.822	-72.822	0 %100
40	M40	SX	-72.822	-72.822	0 %100
41	M41	SX	-72.822	-72.822	0 %100
42	M42	SX	-72.822	-72.822	0 %100
43	M43	SX	-72.822	-72.822	0 %100
44	M44	SX	-121.37	-121.37	0 %100
45	M45	SX	-121.37	-121.37	0 %100
46	M46	SX	-72.822	-72.822	0 %100
47	M47	SX	-72.822	-72.822	0 %100
48	M48	SX	-72.822	-72.822	0 %100
49	M49	SX	-72.822	-72.822	0 %100
50	M50	SX	-72.822	-72.822	0 %100
51	M51	SX	-72.822	-72.822	0 %100
52	M52	SX	-72.822	-72.822	0 %100
53	M53	SX	-72.822	-72.822	0 %100
54	M54	SX	-72.822	-72.822	0 %100
55	M55	SX	-72.822	-72.822	0 %100
56	M56	SX	0	0	0 %100
57	M57	SX	0	0	0 %100
58	M58	SX	0	0	0 %100

Member Distributed Loads (BLC 15 : Distr. Wind Load X) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
59	M59	SX	0	0	%100
60	M60	SX	0	0	%100
61	M61	SX	0	0	%100
62	M62	SX	-72.822	-72.822	%100
63	M63	SX	-72.822	-72.822	%100
64	M64	SX	-72.822	-72.822	%100
65	M65	SX	-72.822	-72.822	%100
66	M66	SX	-72.822	-72.822	%100
67	M67	SX	-72.822	-72.822	%100
68	M68	SX	-72.822	-72.822	%100
69	M69	SX	-72.822	-72.822	%100
70	M70	SX	-72.822	-72.822	%100
71	M71	SX	-72.822	-72.822	%100
72	M72	SX	-72.822	-72.822	%100
73	M73	SX	-72.822	-72.822	%100
74	M74	SX	-72.822	-72.822	%100
75	M75	SX	-121.37	-121.37	%100
76	M76	SX	-121.37	-121.37	%100
77	M77	SX	-72.822	-72.822	%100
78	M78	SX	-72.822	-72.822	%100
79	M79	SX	-72.822	-72.822	%100
80	M80	SX	-72.822	-72.822	%100
81	M81	SX	-72.822	-72.822	%100
82	M82	SX	-72.822	-72.822	%100
83	M83	SX	-72.822	-72.822	%100
84	M84	SX	-72.822	-72.822	%100
85	M85	SX	-72.822	-72.822	%100
86	M86	SX	-72.822	-72.822	%100
87	M87	SX	0	0	%100
88	M88	SX	0	0	%100
89	M89	SX	0	0	%100
90	M90	SX	0	0	%100
91	M91	SX	0	0	%100
92	M92	SX	0	0	%100
93	M93	SX	-121.37	-121.37	%100
94	M94	SX	-121.37	-121.37	%100
95	M95	SX	-121.37	-121.37	%100
96	M96	SX	-72.822	-72.822	%100
97	MP1	SX	-72.822	-72.822	%100
98	MP2	SX	-72.822	-72.822	%100
99	MP3	SX	-72.822	-72.822	%100
100	MP4	SX	-72.822	-72.822	%100
101	MP5	SX	-72.822	-72.822	%100
102	MP6	SX	-72.822	-72.822	%100
103	MP7	SX	-72.822	-72.822	%100
104	MP8	SX	-72.822	-72.822	%100
105	MP9	SX	-72.822	-72.822	%100
106	MP10	SX	-72.822	-72.822	%100
107	MP11	SX	-72.822	-72.822	%100
108	MP12	SX	-72.822	-72.822	%100

Member Distributed Loads (BLC 16 : Ice Weight)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	M1	Y	-4.372	0	%100
2	M2	Y	-4.372	0	%100
3	M3	Y	-4.372	0	%100

Member Distributed Loads (BLC 16 : Ice Weight) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in,%]	End Location[in,%]
4	M4	-4.372	-4.372	0	%100
5	M5	-4.372	-4.372	0	%100
6	M6	-4.372	-4.372	0	%100
7	M7	-4.372	-4.372	0	%100
8	M8	-4.372	-4.372	0	%100
9	M9	-4.372	-4.372	0	%100
10	M10	-4.372	-4.372	0	%100
11	M11	-4.372	-4.372	0	%100
12	M12	-4.372	-4.372	0	%100
13	M13	-4.372	-4.372	0	%100
14	M14	-16.369	-16.369	0	%100
15	M15	-16.369	-16.369	0	%100
16	M16	-4.372	-4.372	0	%100
17	M17	-4.372	-4.372	0	%100
18	M18	-4.372	-4.372	0	%100
19	M19	-4.372	-4.372	0	%100
20	M20	-4.372	-4.372	0	%100
21	M21	-4.372	-4.372	0	%100
22	M22	-4.372	-4.372	0	%100
23	M23	-4.372	-4.372	0	%100
24	M24	-4.372	-4.372	0	%100
25	M25	-2.949	-2.949	0	%100
26	M26	-2.949	-2.949	0	%100
27	M27	-2.949	-2.949	0	%100
28	M28	-2.949	-2.949	0	%100
29	M29	-2.949	-2.949	0	%100
30	M30	-2.949	-2.949	0	%100
31	M31	-4.372	-4.372	0	%100
32	M32	-4.372	-4.372	0	%100
33	M33	-4.372	-4.372	0	%100
34	M34	-4.372	-4.372	0	%100
35	M35	-4.372	-4.372	0	%100
36	M36	-4.372	-4.372	0	%100
37	M37	-4.372	-4.372	0	%100
38	M38	-4.372	-4.372	0	%100
39	M39	-4.372	-4.372	0	%100
40	M40	-4.372	-4.372	0	%100
41	M41	-4.372	-4.372	0	%100
42	M42	-4.372	-4.372	0	%100
43	M43	-4.372	-4.372	0	%100
44	M44	-16.369	-16.369	0	%100
45	M45	-16.369	-16.369	0	%100
46	M46	-4.372	-4.372	0	%100
47	M47	-4.372	-4.372	0	%100
48	M48	-4.372	-4.372	0	%100
49	M49	-4.372	-4.372	0	%100
50	M50	-4.372	-4.372	0	%100
51	M51	-4.372	-4.372	0	%100
52	M52	-4.372	-4.372	0	%100
53	M53	-4.372	-4.372	0	%100
54	M54	-4.372	-4.372	0	%100
55	M55	-11.489	-11.489	0	%100
56	M56	-2.949	-2.949	0	%100
57	M57	-2.949	-2.949	0	%100
58	M58	-2.949	-2.949	0	%100
59	M59	-2.949	-2.949	0	%100
60	M60	-2.949	-2.949	0	%100

Member Distributed Loads (BLC 16 : Ice Weight) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
61	M61	Y	-2.949	-2.949	0	%100
62	M62	Y	-4.372	-4.372	0	%100
63	M63	Y	-4.372	-4.372	0	%100
64	M64	Y	-4.372	-4.372	0	%100
65	M65	Y	-4.372	-4.372	0	%100
66	M66	Y	-4.372	-4.372	0	%100
67	M67	Y	-4.372	-4.372	0	%100
68	M68	Y	-4.372	-4.372	0	%100
69	M69	Y	-4.372	-4.372	0	%100
70	M70	Y	-4.372	-4.372	0	%100
71	M71	Y	-4.372	-4.372	0	%100
72	M72	Y	-4.372	-4.372	0	%100
73	M73	Y	-4.372	-4.372	0	%100
74	M74	Y	-4.372	-4.372	0	%100
75	M75	Y	-16.369	-16.369	0	%100
76	M76	Y	-16.369	-16.369	0	%100
77	M77	Y	-4.372	-4.372	0	%100
78	M78	Y	-4.372	-4.372	0	%100
79	M79	Y	-4.372	-4.372	0	%100
80	M80	Y	-4.372	-4.372	0	%100
81	M81	Y	-4.372	-4.372	0	%100
82	M82	Y	-4.372	-4.372	0	%100
83	M83	Y	-4.372	-4.372	0	%100
84	M84	Y	-4.372	-4.372	0	%100
85	M85	Y	-4.372	-4.372	0	%100
86	M86	Y	-11.489	-11.489	0	%100
87	M87	Y	-2.949	-2.949	0	%100
88	M88	Y	-2.949	-2.949	0	%100
89	M89	Y	-2.949	-2.949	0	%100
90	M90	Y	-2.949	-2.949	0	%100
91	M91	Y	-2.949	-2.949	0	%100
92	M92	Y	-2.949	-2.949	0	%100
93	M93	Y	-14.376	-14.376	0	%100
94	M94	Y	-14.376	-14.376	0	%100
95	M95	Y	-14.376	-14.376	0	%100
96	M96	Y	-11.489	-11.489	0	%100
97	MP1	Y	-7.456	-7.456	0	%100
98	MP2	Y	-7.456	-7.456	0	%100
99	MP3	Y	-8.405	-8.405	0	%100
100	MP4	Y	-8.405	-8.405	0	%100
101	MP5	Y	-7.456	-7.456	0	%100
102	MP6	Y	-7.456	-7.456	0	%100
103	MP7	Y	-8.405	-8.405	0	%100
104	MP8	Y	-8.405	-8.405	0	%100
105	MP9	Y	-7.456	-7.456	0	%100
106	MP10	Y	-7.456	-7.456	0	%100
107	MP11	Y	-8.405	-8.405	0	%100
108	MP12	Y	-8.405	-8.405	0	%100

Member Distributed Loads (BLC 29 : Distr. Ice Wind Load Z)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	M1	SZ	-56.262	-56.262	0	%100
2	M2	SZ	-56.262	-56.262	0	%100
3	M3	SZ	-56.262	-56.262	0	%100
4	M4	SZ	-56.262	-56.262	0	%100
5	M5	SZ	-56.262	-56.262	0	%100

Member Distributed Loads (BLC 29 : Distr. Ice Wind Load Z) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in,%]	End Location[in,%]
6	M6	SZ	-56.262	-56.262	0 %100
7	M7	SZ	-56.262	-56.262	0 %100
8	M8	SZ	-56.262	-56.262	0 %100
9	M9	SZ	-56.262	-56.262	0 %100
10	M10	SZ	-56.262	-56.262	0 %100
11	M11	SZ	-56.262	-56.262	0 %100
12	M12	SZ	-56.262	-56.262	0 %100
13	M13	SZ	-56.262	-56.262	0 %100
14	M14	SZ	-15.747	-15.747	0 %100
15	M15	SZ	-15.747	-15.747	0 %100
16	M16	SZ	-56.262	-56.262	0 %100
17	M17	SZ	-56.262	-56.262	0 %100
18	M18	SZ	-56.262	-56.262	0 %100
19	M19	SZ	-56.262	-56.262	0 %100
20	M20	SZ	-56.262	-56.262	0 %100
21	M21	SZ	-56.262	-56.262	0 %100
22	M22	SZ	-56.262	-56.262	0 %100
23	M23	SZ	-56.262	-56.262	0 %100
24	M24	SZ	-56.262	-56.262	0 %100
25	M25	SZ	0	0	0 %100
26	M26	SZ	0	0	0 %100
27	M27	SZ	0	0	0 %100
28	M28	SZ	0	0	0 %100
29	M29	SZ	0	0	0 %100
30	M30	SZ	0	0	0 %100
31	M31	SZ	-56.262	-56.262	0 %100
32	M32	SZ	-56.262	-56.262	0 %100
33	M33	SZ	-56.262	-56.262	0 %100
34	M34	SZ	-56.262	-56.262	0 %100
35	M35	SZ	-56.262	-56.262	0 %100
36	M36	SZ	-56.262	-56.262	0 %100
37	M37	SZ	-56.262	-56.262	0 %100
38	M38	SZ	-56.262	-56.262	0 %100
39	M39	SZ	-56.262	-56.262	0 %100
40	M40	SZ	-56.262	-56.262	0 %100
41	M41	SZ	-56.262	-56.262	0 %100
42	M42	SZ	-56.262	-56.262	0 %100
43	M43	SZ	-56.262	-56.262	0 %100
44	M44	SZ	-15.747	-15.747	0 %100
45	M45	SZ	-15.747	-15.747	0 %100
46	M46	SZ	-56.262	-56.262	0 %100
47	M47	SZ	-56.262	-56.262	0 %100
48	M48	SZ	-56.262	-56.262	0 %100
49	M49	SZ	-56.262	-56.262	0 %100
50	M50	SZ	-56.262	-56.262	0 %100
51	M51	SZ	-56.262	-56.262	0 %100
52	M52	SZ	-56.262	-56.262	0 %100
53	M53	SZ	-56.262	-56.262	0 %100
54	M54	SZ	-56.262	-56.262	0 %100
55	M55	SZ	-18.494	-18.494	0 %100
56	M56	SZ	0	0	0 %100
57	M57	SZ	0	0	0 %100
58	M58	SZ	0	0	0 %100
59	M59	SZ	0	0	0 %100
60	M60	SZ	0	0	0 %100
61	M61	SZ	0	0	0 %100
62	M62	SZ	-56.262	-56.262	0 %100

Member Distributed Loads (BLC 29 : Distr. Ice Wind Load Z) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
63	M63	SZ	-56.262	-56.262	0 %100
64	M64	SZ	-56.262	-56.262	0 %100
65	M65	SZ	-56.262	-56.262	0 %100
66	M66	SZ	-56.262	-56.262	0 %100
67	M67	SZ	-56.262	-56.262	0 %100
68	M68	SZ	-56.262	-56.262	0 %100
69	M69	SZ	-56.262	-56.262	0 %100
70	M70	SZ	-56.262	-56.262	0 %100
71	M71	SZ	-56.262	-56.262	0 %100
72	M72	SZ	-56.262	-56.262	0 %100
73	M73	SZ	-56.262	-56.262	0 %100
74	M74	SZ	-56.262	-56.262	0 %100
75	M75	SZ	-15.747	-15.747	0 %100
76	M76	SZ	-15.747	-15.747	0 %100
77	M77	SZ	-56.262	-56.262	0 %100
78	M78	SZ	-56.262	-56.262	0 %100
79	M79	SZ	-56.262	-56.262	0 %100
80	M80	SZ	-56.262	-56.262	0 %100
81	M81	SZ	-56.262	-56.262	0 %100
82	M82	SZ	-56.262	-56.262	0 %100
83	M83	SZ	-56.262	-56.262	0 %100
84	M84	SZ	-56.262	-56.262	0 %100
85	M85	SZ	-56.262	-56.262	0 %100
86	M86	SZ	-18.494	-18.494	0 %100
87	M87	SZ	0	0	0 %100
88	M88	SZ	0	0	0 %100
89	M89	SZ	0	0	0 %100
90	M90	SZ	0	0	0 %100
91	M91	SZ	0	0	0 %100
92	M92	SZ	0	0	0 %100
93	M93	SZ	-16.586	-16.586	0 %100
94	M94	SZ	-16.586	-16.586	0 %100
95	M95	SZ	-16.586	-16.586	0 %100
96	M96	SZ	-18.494	-18.494	0 %100
97	MP1	SZ	-25.252	-25.252	0 %100
98	MP2	SZ	-25.252	-25.252	0 %100
99	MP3	SZ	-22.763	-22.763	0 %100
100	MP4	SZ	-22.763	-22.763	0 %100
101	MP5	SZ	-25.252	-25.252	0 %100
102	MP6	SZ	-25.252	-25.252	0 %100
103	MP7	SZ	-22.763	-22.763	0 %100
104	MP8	SZ	-22.763	-22.763	0 %100
105	MP9	SZ	-25.252	-25.252	0 %100
106	MP10	SZ	-25.252	-25.252	0 %100
107	MP11	SZ	-22.763	-22.763	0 %100
108	MP12	SZ	-22.763	-22.763	0 %100

Member Distributed Loads (BLC 30 : Distr. Ice Wind Load X)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	M1	SX	-56.262	-56.262	0 %100
2	M2	SX	-56.262	-56.262	0 %100
3	M3	SX	-56.262	-56.262	0 %100
4	M4	SX	-56.262	-56.262	0 %100
5	M5	SX	-56.262	-56.262	0 %100
6	M6	SX	-56.262	-56.262	0 %100
7	M7	SX	-56.262	-56.262	0 %100

Member Distributed Loads (BLC 30 : Distr. Ice Wind Load X) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in,%]	End Location[in,%]
8	M8	SX	-56.262	-56.262	0 %100
9	M9	SX	-56.262	-56.262	0 %100
10	M10	SX	-56.262	-56.262	0 %100
11	M11	SX	-56.262	-56.262	0 %100
12	M12	SX	-56.262	-56.262	0 %100
13	M13	SX	-56.262	-56.262	0 %100
14	M14	SX	-15.747	-15.747	0 %100
15	M15	SX	-15.747	-15.747	0 %100
16	M16	SX	-56.262	-56.262	0 %100
17	M17	SX	-56.262	-56.262	0 %100
18	M18	SX	-56.262	-56.262	0 %100
19	M19	SX	-56.262	-56.262	0 %100
20	M20	SX	-56.262	-56.262	0 %100
21	M21	SX	-56.262	-56.262	0 %100
22	M22	SX	-56.262	-56.262	0 %100
23	M23	SX	-56.262	-56.262	0 %100
24	M24	SX	-56.262	-56.262	0 %100
25	M25	SX	0	0	0 %100
26	M26	SX	0	0	0 %100
27	M27	SX	0	0	0 %100
28	M28	SX	0	0	0 %100
29	M29	SX	0	0	0 %100
30	M30	SX	0	0	0 %100
31	M31	SX	-56.262	-56.262	0 %100
32	M32	SX	-56.262	-56.262	0 %100
33	M33	SX	-56.262	-56.262	0 %100
34	M34	SX	-56.262	-56.262	0 %100
35	M35	SX	-56.262	-56.262	0 %100
36	M36	SX	-56.262	-56.262	0 %100
37	M37	SX	-56.262	-56.262	0 %100
38	M38	SX	-56.262	-56.262	0 %100
39	M39	SX	-56.262	-56.262	0 %100
40	M40	SX	-56.262	-56.262	0 %100
41	M41	SX	-56.262	-56.262	0 %100
42	M42	SX	-56.262	-56.262	0 %100
43	M43	SX	-56.262	-56.262	0 %100
44	M44	SX	-15.747	-15.747	0 %100
45	M45	SX	-15.747	-15.747	0 %100
46	M46	SX	-56.262	-56.262	0 %100
47	M47	SX	-56.262	-56.262	0 %100
48	M48	SX	-56.262	-56.262	0 %100
49	M49	SX	-56.262	-56.262	0 %100
50	M50	SX	-56.262	-56.262	0 %100
51	M51	SX	-56.262	-56.262	0 %100
52	M52	SX	-56.262	-56.262	0 %100
53	M53	SX	-56.262	-56.262	0 %100
54	M54	SX	-56.262	-56.262	0 %100
55	M55	SX	-18.494	-18.494	0 %100
56	M56	SX	0	0	0 %100
57	M57	SX	0	0	0 %100
58	M58	SX	0	0	0 %100
59	M59	SX	0	0	0 %100
60	M60	SX	0	0	0 %100
61	M61	SX	0	0	0 %100
62	M62	SX	-56.262	-56.262	0 %100
63	M63	SX	-56.262	-56.262	0 %100
64	M64	SX	-56.262	-56.262	0 %100

Member Distributed Loads (BLC 30 : Distr. Ice Wind Load X) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
65	M65	SX	-56.262	-56.262	0 %100
66	M66	SX	-56.262	-56.262	0 %100
67	M67	SX	-56.262	-56.262	0 %100
68	M68	SX	-56.262	-56.262	0 %100
69	M69	SX	-56.262	-56.262	0 %100
70	M70	SX	-56.262	-56.262	0 %100
71	M71	SX	-56.262	-56.262	0 %100
72	M72	SX	-56.262	-56.262	0 %100
73	M73	SX	-56.262	-56.262	0 %100
74	M74	SX	-56.262	-56.262	0 %100
75	M75	SX	-15.747	-15.747	0 %100
76	M76	SX	-15.747	-15.747	0 %100
77	M77	SX	-56.262	-56.262	0 %100
78	M78	SX	-56.262	-56.262	0 %100
79	M79	SX	-56.262	-56.262	0 %100
80	M80	SX	-56.262	-56.262	0 %100
81	M81	SX	-56.262	-56.262	0 %100
82	M82	SX	-56.262	-56.262	0 %100
83	M83	SX	-56.262	-56.262	0 %100
84	M84	SX	-56.262	-56.262	0 %100
85	M85	SX	-56.262	-56.262	0 %100
86	M86	SX	-18.494	-18.494	0 %100
87	M87	SX	0	0	0 %100
88	M88	SX	0	0	0 %100
89	M89	SX	0	0	0 %100
90	M90	SX	0	0	0 %100
91	M91	SX	0	0	0 %100
92	M92	SX	0	0	0 %100
93	M93	SX	-16.586	-16.586	0 %100
94	M94	SX	-16.586	-16.586	0 %100
95	M95	SX	-16.586	-16.586	0 %100
96	M96	SX	-18.494	-18.494	0 %100
97	MP1	SX	-25.252	-25.252	0 %100
98	MP2	SX	-25.252	-25.252	0 %100
99	MP3	SX	-22.763	-22.763	0 %100
100	MP4	SX	-22.763	-22.763	0 %100
101	MP5	SX	-25.252	-25.252	0 %100
102	MP6	SX	-25.252	-25.252	0 %100
103	MP7	SX	-22.763	-22.763	0 %100
104	MP8	SX	-22.763	-22.763	0 %100
105	MP9	SX	-25.252	-25.252	0 %100
106	MP10	SX	-25.252	-25.252	0 %100
107	MP11	SX	-22.763	-22.763	0 %100
108	MP12	SX	-22.763	-22.763	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	M31	Y	.173	-.092	85.5 102.6
2	M31	Y	-.092	-2.633	102.6 119.7
3	M31	Y	-2.633	-6.291	119.7 136.8
4	M31	Y	-6.291	-9.053	136.8 153.9
5	M47	Y	3.899	3.47	46.2 50.16
6	M47	Y	3.47	-.777	50.16 54.12
7	M47	Y	-.777	-7.157	54.12 58.08
8	M47	Y	-7.157	-48.711	58.08 62.04
9	M47	Y	-48.711	-126.697	62.04 66

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, %]	
10	M48	Y	-.631	-6.501	0	4.333
11	M48	Y	-6.501	-8.393	4.333	8.667
12	M48	Y	-8.393	-.631	8.667	13
13	M49	Y	-4.099e-16	-.648	0	2.6
14	M49	Y	-.648	-2.92	2.6	5.2
15	M49	Y	-2.92	-3.536	5.2	7.8
16	M49	Y	-3.536	-1.264	7.8	10.4
17	M49	Y	-1.264	-4.099e-16	10.4	13
18	M60	Y	-.234	-.234	0	4.514
19	M61	Y	-27.488	-27.488	0	4.514
20	M62	Y	-6.429	-5.599	17.1	34.2
21	M62	Y	-5.599	-2.831	34.2	51.3
22	M62	Y	-2.831	-.213	51.3	68.4
23	M62	Y	-.213	.052	68.4	85.5
24	M77	Y	6.014	3.694	0	3.25
25	M77	Y	3.694	-2.569	3.25	6.5
26	M77	Y	-2.569	-54.626	6.5	9.75
27	M77	Y	-54.626	-150.857	9.75	13
28	M78	Y	-21.479	-17.623	0	3.96
29	M78	Y	-17.623	-12.281	3.96	7.92
30	M78	Y	-12.281	-4.766	7.92	11.88
31	M78	Y	-4.766	-.236	11.88	15.84
32	M78	Y	-.236	.193	15.84	19.8
33	M81	Y	2.05e-16	-.227	0	2.6
34	M81	Y	-.227	-2.922	2.6	5.2
35	M81	Y	-2.922	-3.958	5.2	7.8
36	M81	Y	-3.958	-1.263	7.8	10.4
37	M81	Y	-1.263	2.05e-16	10.4	13
38	M87	Y	-30.179	-30.179	0	4.514
39	M88	Y	-.239	-.239	0	4.514
40	M47	Y	-.239	-2.445	33	39.6
41	M47	Y	-2.445	-6.594	39.6	46.2
42	M47	Y	-6.594	-9.984	46.2	52.8
43	M47	Y	-9.984	-9.039	52.8	59.4
44	M47	Y	-9.039	-4.255	59.4	66
45	M49	Y	.212	-.428	0	4.333
46	M49	Y	-.428	-2.338	4.333	8.667
47	M49	Y	-2.338	-4.878	8.667	13
48	M51	Y	1.465	1.465	4.8	7.2
49	M51	Y	.733	-3.663	7.2	9.6
50	M51	Y	-3.663	-12.454	9.6	12
51	M52	Y	-8.049	-9.339	0	3.5
52	M52	Y	-9.339	-11.836	3.5	7
53	M52	Y	-11.836	-16.261	7	10.5
54	M52	Y	-16.261	-24.908	10.5	14
55	M52	Y	-24.908	-37.055	14	17.5
56	M59	Y	-.47	-.47	0	3.532
57	M78	Y	-3.294	-9.082	0	6.6
58	M78	Y	-9.082	-10.358	6.6	13.2
59	M78	Y	-10.358	-6.861	13.2	19.8
60	M78	Y	-6.861	-2.636	19.8	26.4
61	M78	Y	-2.636	-.289	26.4	33
62	M81	Y	.211	-.431	0	4.333
63	M81	Y	-.431	-2.336	4.333	8.667
64	M81	Y	-2.336	-4.863	8.667	13
65	M82	Y	-11.332	-3.333	0	2.4
66	M82	Y	-3.333	.667	2.4	4.8

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,%]
67	M82	Y	1.333	1.333	4.8 7.2
68	M84	Y	-6.609	-6.609	5.988 12
69	M85	Y	-13.372	-15.168	0 3.5
70	M85	Y	-15.168	-14.254	3.5 7
71	M85	Y	-14.254	-11.342	7 10.5
72	M85	Y	-11.342	-9.749	10.5 14
73	M85	Y	-9.749	-8.765	14 17.5
74	M89	Y	-.47	-.47	0 3.532
75	M17	Y	-.29	-2.639	33 39.6
76	M17	Y	-2.639	-6.872	39.6 46.2
77	M17	Y	-6.872	-10.367	46.2 52.8
78	M17	Y	-10.367	-9.081	52.8 59.4
79	M17	Y	-9.081	-3.286	59.4 66
80	M19	Y	.208	-.432	0 4.333
81	M19	Y	-.432	-2.323	4.333 8.667
82	M19	Y	-2.323	-4.823	8.667 13
83	M21	Y	1.399	1.399	4.8 7.2
84	M21	Y	.667	-3.333	7.2 9.6
85	M21	Y	-3.333	-11.332	9.6 12
86	M22	Y	-7.851	-9.463	0 3.5
87	M22	Y	-9.463	-10.845	3.5 7
88	M22	Y	-10.845	-13.483	7 10.5
89	M22	Y	-13.483	-20.312	10.5 14
90	M22	Y	-20.312	-29.845	14 17.5
91	M28	Y	-.47	-.47	0 3.532
92	M29	Y	-.239	-.239	0 4.514
93	M47	Y	-4.253	-9.041	0 6.6
94	M47	Y	-9.041	-10.079	6.6 13.2
95	M47	Y	-10.079	-6.712	13.2 19.8
96	M47	Y	-6.712	-2.47	19.8 26.4
97	M47	Y	-2.47	-.239	26.4 33
98	M50	Y	-.061	-.318	0 3.25
99	M50	Y	-.318	-2.015	3.25 6.5
100	M50	Y	-2.015	-2.968	6.5 9.75
101	M50	Y	-2.968	-1.994	9.75 13
102	M51	Y	-12.454	-3.663	0 2.4
103	M51	Y	-3.663	.733	2.4 4.8
104	M53	Y	-12.021	-12.021	5.988 12
105	M54	Y	-7.058	-15.603	0 3.5
106	M54	Y	-15.603	-17.292	3.5 7
107	M54	Y	-17.292	-12.865	7 10.5
108	M54	Y	-12.865	-10.385	10.5 14
109	M54	Y	-10.385	-9.112	14 17.5
110	M57	Y	-.23	-.23	0 4.514
111	M58	Y	-.47	-.47	0 3.532
112	M1	Y	.392	-.48	85.5 108.3
113	M1	Y	-.48	-3.706	108.3 131.1
114	M1	Y	-3.706	-8.619	131.1 153.9
115	M17	Y	4.715	4.286	46.2 50.16
116	M17	Y	4.286	.039	50.16 54.12
117	M17	Y	.039	-6.323	54.12 58.08
118	M17	Y	-6.323	-56.012	58.08 62.04
119	M17	Y	-56.012	-150.303	62.04 66
120	M18	Y	-.62	-6.394	0 4.333
121	M18	Y	-6.394	-8.255	4.333 8.667
122	M18	Y	-8.255	-.62	8.667 13
123	M19	Y	-2.05e-16	-.226	0 2.6

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,%]
124	M19	-0.226	-2.922	2.6	5.2
125	M19	-2.922	-3.958	5.2	7.8
126	M19	-3.958	-1.263	7.8	10.4
127	M19	-1.263	-2.05e-16	10.4	13
128	M30	-45.954	-45.954	0	4.514
129	M31	-10.004	-4.021	17.1	39.9
130	M31	-4.021	-.325	39.9	62.7
131	M31	-.325	.482	62.7	85.5
132	M46	4.3	1.979	0	3.25
133	M46	1.979	-4.502	3.25	6.5
134	M46	-4.502	-43.061	6.5	9.75
135	M46	-43.061	-111.858	9.75	13
136	M47	-23.968	-17.01	0	3.96
137	M47	-17.01	-11.082	3.96	7.92
138	M47	-11.082	-4.571	7.92	11.88
139	M47	-4.571	-.081	11.88	15.84
140	M47	-.081	.348	15.84	19.8
141	M50	0	-.669	0	2.6
142	M50	-.669	-2.917	2.6	5.2
143	M50	-2.917	-3.516	5.2	7.8
144	M50	-3.516	-1.269	7.8	10.4
145	M50	-1.269	0	10.4	13
146	M56	-25.596	-25.596	0	4.514
147	M17	-4.255	-9.039	0	6.6
148	M17	-9.039	-10.077	6.6	13.2
149	M17	-10.077	-6.711	13.2	19.8
150	M17	-6.711	-2.47	19.8	26.4
151	M17	-2.47	-.239	26.4	33
152	M20	-.061	-.318	0	3.25
153	M20	-.318	-2.015	3.25	6.5
154	M20	-2.015	-2.968	6.5	9.75
155	M20	-2.968	-1.994	9.75	13
156	M21	-12.454	-3.663	0	2.4
157	M21	-3.663	.733	2.4	4.8
158	M23	-12.04	-12.04	5.988	12
159	M24	-7.068	-15.601	0	3.5
160	M24	-15.601	-17.282	3.5	7
161	M24	-17.282	-12.859	7	10.5
162	M24	-12.859	-10.384	10.5	14
163	M24	-10.384	-9.11	14	17.5
164	M26	-.229	-.229	0	4.514
165	M27	-.47	-.47	0	3.532
166	M78	-.289	-2.657	33	39.6
167	M78	-2.657	-6.975	39.6	46.2
168	M78	-6.975	-10.45	46.2	52.8
169	M78	-10.45	-9.082	52.8	59.4
170	M78	-9.082	-3.294	59.4	66
171	M80	.182	-.462	0	4.333
172	M80	-.462	-2.195	4.333	8.667
173	M80	-2.195	-4.374	8.667	13
174	M82	.667	-3.333	7.2	9.6
175	M82	-3.333	-11.332	9.6	12
176	M83	-7.856	-9.461	0	3.5
177	M83	-9.461	-10.836	3.5	7
178	M83	-10.836	-13.469	7	10.5
179	M83	-13.469	-20.308	10.5	14
180	M83	-20.308	-29.865	14	17.5

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, %]	
181	M90	Y	-47	-47	0	3.532
182	M91	Y	-236	-236	0	4.514
183	M1	Y	-8.887	-6.251	17.1	34.2
184	M1	Y	-6.251	-2.649	34.2	51.3
185	M1	Y	-2.649	-.1	51.3	68.4
186	M1	Y	-.1	.165	68.4	85.5
187	M16	Y	5.076	-.795	0	4.333
188	M16	Y	-.795	-37.121	4.333	8.667
189	M16	Y	-37.121	-98.033	8.667	13
190	M17	Y	-16.301	-14.451	0	3.96
191	M17	Y	-14.451	-10.964	3.96	7.92
192	M17	Y	-10.964	-4.583	7.92	11.88
193	M17	Y	-4.583	-.336	11.88	15.84
194	M17	Y	-.336	.092	15.84	19.8
195	M20	Y	6.149e-16	-.225	0	2.6
196	M20	Y	-.225	-2.917	2.6	5.2
197	M20	Y	-2.917	-3.961	5.2	7.8
198	M20	Y	-3.961	-1.269	7.8	10.4
199	M20	Y	-1.269	6.149e-16	10.4	13
200	M25	Y	-31.401	-31.401	0	4.514
201	M62	Y	.458	-.308	85.5	108.3
202	M62	Y	-.308	-3.821	108.3	131.1
203	M62	Y	-3.821	-9.516	131.1	153.9
204	M78	Y	4.345	3.916	46.2	50.16
205	M78	Y	3.916	-.57	50.16	54.12
206	M78	Y	-.57	-7.042	54.12	58.08
207	M78	Y	-7.042	-52.905	58.08	62.04
208	M78	Y	-52.905	-139.801	62.04	66
209	M79	Y	-.148	-5.889	0	4.333
210	M79	Y	-5.889	-10.741	4.333	8.667
211	M79	Y	-10.741	-8.962	8.667	13
212	M80	Y	2.05e-16	-.669	0	2.6
213	M80	Y	-.669	-2.917	2.6	5.2
214	M80	Y	-2.917	-3.516	5.2	7.8
215	M80	Y	-3.516	-1.269	7.8	10.4
216	M80	Y	-1.269	2.05e-16	10.4	13
217	M92	Y	-29.601	-29.601	0	4.514

Member Distributed Loads (BLC 47 : BLC 16 Transient Area Loads)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]	
1	M31	Y	.25	-.134	85.5	102.6
2	M31	Y	-.134	-3.819	102.6	119.7
3	M31	Y	-3.819	-9.121	119.7	136.8
4	M31	Y	-9.121	-13.127	136.8	153.9
5	M47	Y	5.654	5.032	46.2	50.16
6	M47	Y	5.032	-1.127	50.16	54.12
7	M47	Y	-1.127	-10.378	54.12	58.08
8	M47	Y	-10.378	-70.632	58.08	62.04
9	M47	Y	-70.632	-183.71	62.04	66
10	M48	Y	-.914	-9.426	0	4.333
11	M48	Y	-9.426	-12.169	4.333	8.667
12	M48	Y	-12.169	-.914	8.667	13
13	M49	Y	0	-.94	0	2.6
14	M49	Y	-.94	-4.235	2.6	5.2
15	M49	Y	-4.235	-5.128	5.2	7.8
16	M49	Y	-5.128	-1.833	7.8	10.4

Member Distributed Loads (BLC 47 : BLC 16 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
17	M49	-1.833	0	10.4	13
18	M60	-.348	-.348	0	4.514
19	M61	-39.858	-39.858	0	4.514
20	M62	-9.322	-8.119	17.1	34.2
21	M62	-8.119	-4.105	34.2	51.3
22	M62	-4.105	-.309	51.3	68.4
23	M62	-.309	.075	68.4	85.5
24	M77	8.721	5.356	0	3.25
25	M77	5.356	-3.725	3.25	6.5
26	M77	-3.725	-79.208	6.5	9.75
27	M77	-79.208	-218.742	9.75	13
28	M78	-31.145	-25.553	0	3.96
29	M78	-25.553	-17.808	3.96	7.92
30	M78	-17.808	-6.911	7.92	11.88
31	M78	-6.911	-.342	11.88	15.84
32	M78	-.342	.28	15.84	19.8
33	M81	0	-.329	0	2.6
34	M81	-.329	-4.236	2.6	5.2
35	M81	-4.236	-5.739	5.2	7.8
36	M81	-5.739	-1.832	7.8	10.4
37	M81	-1.832	0	10.4	13
38	M87	-43.759	-43.759	0	4.514
39	M88	-.338	-.338	0	4.514
40	M47	-.42	-3.823	33	39.6
41	M47	-3.823	-9.954	39.6	46.2
42	M47	-9.954	-15.025	46.2	52.8
43	M47	-15.025	-13.167	52.8	59.4
44	M47	-13.167	-4.765	59.4	66
45	M49	.305	-.624	0	4.333
46	M49	-.624	-3.382	4.333	8.667
47	M49	-3.382	-7.038	8.667	13
48	M51	1.933	1.933	4.8	7.2
49	M51	.967	-4.833	7.2	9.6
50	M51	-4.833	-16.431	9.6	12
51	M52	-11.385	-13.721	0	3.5
52	M52	-13.721	-15.725	3.5	7
53	M52	-15.725	-19.551	7	10.5
54	M52	-19.551	-29.453	10.5	14
55	M52	-29.453	-43.275	14	17.5
56	M59	-.682	-.682	0	3.532
57	M78	-6.167	-13.109	0	6.6
58	M78	-13.109	-14.48	6.6	13.2
59	M78	-14.48	-9.567	13.2	19.8
60	M78	-9.567	-3.551	19.8	26.4
61	M78	-3.551	-.347	26.4	33
62	M81	.306	-.622	0	4.333
63	M81	-.622	-3.383	4.333	8.667
64	M81	-3.383	-7.05	8.667	13
65	M82	-18.058	-5.311	0	2.4
66	M82	-5.311	1.062	2.4	4.8
67	M82	2.029	2.029	4.8	7.2
68	M84	-17.431	-17.431	5.988	12
69	M85	-10.234	-22.624	0	3.5
70	M85	-22.624	-25.073	3.5	7
71	M85	-25.073	-18.654	7	10.5
72	M85	-18.654	-15.059	10.5	14
73	M85	-15.059	-13.212	14	17.5

Member Distributed Loads (BLC 47 : BLC 16 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in, %]	End Location[in, %]
74	M89	Y	- .682	0	3.532
75	M17	Y	-6.169	0	6.6
76	M17	Y	-13.106	6.6	13.2
77	M17	Y	-14.611	13.2	19.8
78	M17	Y	-9.731	19.8	26.4
79	M17	Y	-3.581	26.4	33
80	M20	Y	-.088	0	3.25
81	M20	Y	-.461	3.25	6.5
82	M20	Y	-2.922	6.5	9.75
83	M20	Y	-4.304	9.75	13
84	M21	Y	-18.059	0	2.4
85	M21	Y	-5.311	2.4	4.8
86	M21	Y	2.125	4.8	7.2
87	M23	Y	-17.458	5.988	12
88	M24	Y	-10.248	0	3.5
89	M24	Y	-22.621	3.5	7
90	M24	Y	-25.059	7	10.5
91	M24	Y	-18.645	10.5	14
92	M24	Y	-15.057	14	17.5
93	M26	Y	-.331	0	4.514
94	M27	Y	-.682	0	3.532
95	M78	Y	-.42	33	39.6
96	M78	Y	-3.853	39.6	46.2
97	M78	Y	-10.113	46.2	52.8
98	M78	Y	-15.153	52.8	59.4
99	M78	Y	-13.169	59.4	66
100	M80	Y	.263	0	4.333
101	M80	Y	-.67	4.333	8.667
102	M80	Y	-3.183	8.667	13
103	M82	Y	.967	7.2	9.6
104	M82	Y	-4.833	9.6	12
105	M83	Y	-11.391	0	3.5
106	M83	Y	-13.718	3.5	7
107	M83	Y	-15.712	7	10.5
108	M83	Y	-19.53	10.5	14
109	M83	Y	-29.446	14	17.5
110	M90	Y	-.682	0	3.532
111	M91	Y	-.342	0	4.514
112	M1	Y	-12.887	17.1	34.2
113	M1	Y	-9.064	34.2	51.3
114	M1	Y	-3.842	51.3	68.4
115	M1	Y	-.146	68.4	85.5
116	M16	Y	7.36	0	4.333
117	M16	Y	-1.152	4.333	8.667
118	M16	Y	-53.826	8.667	13
119	M17	Y	-23.636	0	3.96
120	M17	Y	-20.954	3.96	7.92
121	M17	Y	-15.898	7.92	11.88
122	M17	Y	-6.646	11.88	15.84
123	M17	Y	-.487	15.84	19.8
124	M20	Y	0	0	2.6
125	M20	Y	-.326	2.6	5.2
126	M20	Y	-4.229	5.2	7.8
127	M20	Y	-5.743	7.8	10.4
128	M20	Y	-1.841	10.4	13
129	M25	Y	-45.532	0	4.514
130	M62	Y	.664	85.5	108.3

Member Distributed Loads (BLC 47 : BLC 16 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
131	M62	- .447	-5.54	108.3	131.1
132	M62	-5.54	-13.799	131.1	153.9
133	M78	6.3	5.678	46.2	50.16
134	M78	5.678	-.826	50.16	54.12
135	M78	-.826	-10.211	54.12	58.08
136	M78	-10.211	-76.713	58.08	62.04
137	M78	-76.713	-202.711	62.04	66
138	M79	-.215	-8.539	0	4.333
139	M79	-8.539	-15.574	4.333	8.667
140	M79	-15.574	-12.995	8.667	13
141	M80	4.099e-16	-.97	0	2.6
142	M80	-.97	-4.23	2.6	5.2
143	M80	-4.23	-5.099	5.2	7.8
144	M80	-5.099	-1.839	7.8	10.4
145	M80	-1.839	4.099e-16	10.4	13
146	M92	-42.922	-42.922	0	4.514
147	M17	-.347	-3.546	33	39.6
148	M17	-3.546	-9.56	39.6	46.2
149	M17	-9.56	-14.475	46.2	52.8
150	M17	-14.475	-13.106	52.8	59.4
151	M17	-13.106	-6.169	59.4	66
152	M19	.307	-.621	0	4.333
153	M19	-.621	-3.391	4.333	8.667
154	M19	-3.391	-7.075	8.667	13
155	M21	1.062	-5.311	7.2	9.6
156	M21	-5.311	-18.058	9.6	12
157	M22	-11.671	-13.542	0	3.5
158	M22	-13.542	-17.162	3.5	7
159	M22	-17.162	-23.579	7	10.5
160	M22	-23.579	-36.117	10.5	14
161	M22	-36.117	-53.73	14	17.5
162	M28	-.682	-.682	0	3.532
163	M29	-.34	-.34	0	4.514
164	M47	-4.776	-13.169	0	6.6
165	M47	-13.169	-15.153	6.6	13.2
166	M47	-15.153	-10.113	13.2	19.8
167	M47	-10.113	-3.853	19.8	26.4
168	M47	-3.853	-.42	26.4	33
169	M50	.263	-.67	0	4.333
170	M50	-.67	-3.183	4.333	8.667
171	M50	-3.183	-6.343	8.667	13
172	M51	-16.432	-4.833	0	2.4
173	M51	-4.833	.967	2.4	4.8
174	M53	-9.584	-9.584	5.988	12
175	M54	-19.389	-21.993	0	3.5
176	M54	-21.993	-20.669	3.5	7
177	M54	-20.669	-16.446	7	10.5
178	M54	-16.446	-14.136	10.5	14
179	M54	-14.136	-12.708	14	17.5
180	M57	-.34	-.34	0	4.514
181	M58	-.682	-.682	0	3.532
182	M1	.571	-.696	85.5	108.3
183	M1	-.696	-5.39	108.3	131.1
184	M1	-5.39	-12.539	131.1	153.9
185	M17	6.84	6.218	46.2	50.16
186	M17	6.218	.06	50.16	54.12
187	M17	.06	-9.16	54.12	58.08

Member Distributed Loads (BLC 47 : BLC 16 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in,%]	End Location[in,%]
188	M17	Y	-9.16	-81.249	58.08 62.04
189	M17	Y	-81.249	-218.059	62.04 66
190	M18	Y	-.899	-9.27	0 4.333
191	M18	Y	-9.27	-11.967	4.333 8.667
192	M18	Y	-11.967	-.899	8.667 13
193	M19	Y	0	-.939	0 2.6
194	M19	Y	-.939	-4.235	2.6 5.2
195	M19	Y	-4.235	-5.129	5.2 7.8
196	M19	Y	-5.129	-1.833	7.8 10.4
197	M19	Y	-1.833	0	10.4 13
198	M30	Y	-66.653	-66.653	0 4.514
199	M31	Y	-14.503	-5.83	17.1 39.9
200	M31	Y	-5.83	-.472	39.9 62.7
201	M31	Y	-.472	.698	62.7 85.5
202	M46	Y	6.227	2.863	0 3.25
203	M46	Y	2.863	-6.51	3.25 6.5
204	M46	Y	-6.51	-62.339	6.5 9.75
205	M46	Y	-62.339	-161.976	9.75 13
206	M47	Y	-34.701	-24.634	0 3.96
207	M47	Y	-24.634	-16.058	3.96 7.92
208	M47	Y	-16.058	-6.627	7.92 11.88
209	M47	Y	-6.627	-.118	11.88 15.84
210	M47	Y	-.118	.503	15.84 19.8
211	M50	Y	0	-.326	0 2.6
212	M50	Y	-.326	-4.229	2.6 5.2
213	M50	Y	-4.229	-5.743	5.2 7.8
214	M50	Y	-5.743	-1.841	7.8 10.4
215	M50	Y	-1.841	0	10.4 13
216	M56	Y	-37.071	-37.071	0 4.514

Member Area Loads (BLC 1 : Self Weight)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[psf]
1	N102	N108	N189	N185	Y	Two Way	-10
2	N189	N198	N110	N108	Y	Two Way	-10
3	N111	N105	N54	N56	Y	Two Way	-10
4	N54	N48	N103	N105	Y	Two Way	-10
5	N57	N51	N195	N197	Y	Two Way	-10
6	N195	N51	N49	N183	Y	Two Way	-10

Member Area Loads (BLC 16 : Ice Weight)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[psf]
1	N102	N108	N189	N185	Y	Two Way	-14.5
2	N108	N110	N198	N189	Y	Two Way	-14.5
3	N197	N57	N51	N195	Y	Two Way	-14.5
4	N195	N51	N49	N183	Y	Two Way	-14.5
5	N56	N54	N105	N111	Y	Two Way	-14.5
6	N105	N103	N48	N54	Y	Two Way	-14.5

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

Member	Shape	Code Ch...	Loc[in]	LC	Shear C...	Loc.....	LC	phi*Pn...	phi*Pn...	phi*M...	phi*M.....	Eqn	
1	M45	HSS5X5X4	.944	23.25	2	.190	23....	z	9	13444...	135450	19.976	19.976 ... H1-1b
2	M76	HSS5X5X4	.936	23.25	6	.193	23....	z	13	13444...	135450	19.976	19.976 ... H1-1b
3	M15	HSS5X5X4	.896	23.25	10	.185	23....	z	5	13444...	135450	19.976	19.976 ... H1-1b

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

Member	Shape	Code Ch...	Loc[in]	LC	Shear C...	Loc.....	LC	phi*Pn...	phi*Pn...	phi*M...	phi*M....	Egn		
4	M33	SR 3/4	.803	0	8	.092	6	2	13562...	14313...	.179	.179	H1-1b	
5	M96	PIPE 4.0	.802	99	32	.153	99	8	39028...	93240	10.631	10.631	H1-1b	
6	M55	PIPE 4.0	.801	99	36	.157	66	13	39028...	93240	10.631	10.631	H1-1b	
7	M86	PIPE 4.0	.801	99	28	.151	99	4	39028...	93240	10.631	10.631	H1-1b	
8	M64	SR 3/4	.783	0	12	.090	6	6	13562...	14313...	.179	.179	H1-1b	
9	M3	SR 3/4	.749	0	4	.089	6	10	13562...	14313...	.179	.179	H1-1b	
10	M34	SR 3/4	.732	0	8	.078	6	2	13562...	14313...	.179	.179	H1-1b	
11	M73	SR 3/4	.730	6	7	.084	0	13	13562...	14313...	.179	.179	H1-1b	
12	M32	SR 3/4	.718	6	8	.071	0	2	13562...	14313...	.179	.179	H1-1b	
13	M65	SR 3/4	.718	0	12	.077	6	6	13562...	14313...	.179	.179	H1-1b	
14	M63	SR 3/4	.698	6	12	.070	0	6	13562...	14313...	.179	.179	H1-1b	
15	M42	SR 3/4	.698	6	3	.081	0	2	13562...	14313...	.179	.179	H1-1b	
16	MP12	PIPE 2.5	.689	41	8	.049	41	8	30038...	50715	3.596	3.596	H1-1b	
17	M4	SR 3/4	.688	0	4	.071	6	10	13562...	14313...	.179	.179	H1-1b	
18	M12	SR 3/4	.685	6	11	.080	0	5	13562...	14313...	.179	.179	H1-1b	
19	MP8	PIPE 2.5	.674	41	13	.048	41	12	30038...	50715	3.596	3.596	H1-1b	
20	MP4	PIPE 2.5	.674	41	5	.048	41	4	30038...	50715	3.596	3.596	H1-1b	
21	M74	SR 3/4	.667	6	7	.071	0	13	13562...	14313...	.179	.179	H1-1b	
22	M2	SR 3/4	.666	6	4	.068	0	10	13562...	14313...	.179	.179	H1-1b	
23	M35	SR 3/4	.657	0	8	.086	6	13	13562...	14313...	.179	.179	H1-1b	
24	M43	SR 3/4	.654	6	2	.068	0	9	13562...	14313...	.179	.179	H1-1b	
25	M66	SR 3/4	.650	0	12	.086	6	6	13562...	14313...	.179	.179	H1-1b	
26	M72	SR 3/4	.646	6	7	.068	0	13	13562...	14313...	.179	.179	H1-1b	
27	MP11	PIPE 2.5	.636	41	8	.042	41	8	30038...	50715	3.596	3.596	H1-1b	
28	M13	SR 3/4	.626	6	11	.068	0	5	13562...	14313...	.179	.179	H1-1b	
29	M5	SR 3/4	.624	0	4	.085	6	9	13562...	14313...	.179	.179	H1-1b	
30	M41	SR 3/4	.621	6	3	.066	0	9	13562...	14313...	.179	.179	H1-1b	
31	MP3	PIPE 2.5	.621	41	5	.040	41	4	30038...	50715	3.596	3.596	H1-1b	
32	MP7	PIPE 2.5	.621	41	13	.040	41	12	30038...	50715	3.596	3.596	H1-1b	
33	M71	SR 3/4	.617	6	8	.091	0	2	13562...	14313...	.179	.179	H1-1b	
34	M10	SR 3/4	.608	6	12	.086	0	6	13562...	14313...	.179	.179	H1-1b	
35	M11	SR 3/4	.608	6	11	.066	0	6	13562...	14313...	.179	.179	H1-1b	
36	M94	BPL6x1/2	.606	10.835	7	.258	10....	y	7	61519...	97200	1.012	12.15	H1-1b
37	M70	SR 3/4	.604	6	33	.062	0	9	13562...	14313...	.179	.179	H1-1b	
38	M6	SR 3/4	.596	0	34	.055	6	3	13562...	14313...	.179	.179	H1-1b	
39	M67	SR 3/4	.594	0	37	.056	6	11	13562...	14313...	.179	.179	H1-1b	
40	M40	SR 3/4	.594	6	4	.083	0	10	13562...	14313...	.179	.179	H1-1b	
41	M95	BPL6x1/2	.562	2.673	3	.249	2.6....	y	3	61519...	97200	1.012	12.15	H1-1b
42	M93	BPL6x1/2	.559	10.835	11	.250	10....	y	11	61519...	97200	1.012	12.15	H1-1b
43	MP1	PIPE 2.0	.558	41	8	.051	41	8	14916...	32130	1.872	1.872	H1-1b	
44	MP9	PIPE 2.0	.558	41	12	.051	41	12	14916...	32130	1.872	1.872	H1-1b	
45	MP5	PIPE 2.0	.558	41	4	.051	41	4	14916...	32130	1.872	1.872	H1-1b	
46	M9	SR 3/4	.557	6	7	.061	0	13	13562...	14313...	.179	.179	H1-1b	
47	M36	SR 3/4	.553	0	38	.056	6	7	13562...	14313...	.179	.179	H1-1b	
48	M39	SR 3/4	.539	6	11	.059	0	5	13562...	14313...	.179	.179	H1-1b	
49	M78	SR 3/4	.498	33	33	.186	66	35	805.526	14313...	.179	.179	H1-1b	
50	M17	SR 3/4	.497	33	37	.190	66	27	805.526	14313...	.179	.179	H1-1b	
51	M77	SR 3/4	.477	0	31	.119	3.9....	34	11113...	14313...	.179	.179	H1-1b	
52	M18	SR 3/4	.477	0	31	.102	0	28	11113...	14313...	.179	.179	H1-1b	
53	M47	SR 3/4	.476	33	29	.168	66	31	805.526	14313...	.179	.179	H1-1b	
54	M79	SR 3/4	.475	0	27	.102	0	36	11113...	14313...	.179	.179	H1-1b	
55	M31	SR 3/4	.466	171	8	.135	133...	37	9521....	14313...	.179	.179	1 H1-1b	
56	M62	SR 3/4	.454	171	12	.154	37....	29	9521....	14313...	.179	.179	1 H1-1b	
57	M1	SR 3/4	.433	171	4	.147	133...	33	9521....	14313...	.179	.179	1 H1-1b	
58	M48	SR 3/4	.430	0	35	.086	0	32	11113...	14313...	.179	.179	H1-1b	
59	M46	SR 3/4	.414	0	27	.092	2.8....	30	11113...	14313...	.179	.179	H1-1b	
60	M16	SR 3/4	.412	0	35	.095	2.0....	38	11113...	14313...	.179	.179	H1-1b	

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

Member	Shape	Code Ch...	Loc[in]	LC	Shear C...	Loc.....	LC	phi*Pn...	phi*Pn...	phi*M...	phi*M.....	Eqn	
61	M44	HSS5X5X4	.374	24.375	2	.188	24.... z	9	13434...	135450	19.976	19.976 ...	H1-1b
62	M75	HSS5X5X4	.371	24.375	6	.191	24.... z	13	13434...	135450	19.976	19.976 ...	H1-1b
63	M8	SR 3/4	.363	6	7	.104	6	38	13562...	14313...	.179	.179 ...	H1-1b
64	M14	HSS5X5X4	.359	24.375	35	.182	24.... z	5	13434...	135450	19.976	19.976 ...	H1-1b
65	M69	SR 3/4	.358	6	3	.117	6	34	13562...	14313...	.179	.179 ...	H1-1b
66	M38	SR 3/4	.352	6	11	.103	6	30	13562...	14313...	.179	.179 ...	H1-1b
67	M68	SR 3/4	.323	0	6	.122	0	35	13562...	14313...	.179	.179 ...	H1-1b
68	M37	SR 3/4	.322	0	13	.114	0	31	13562...	14313...	.179	.179 ...	H1-1b
69	M7	SR 3/4	.317	0	9	.123	0	27	13562...	14313...	.179	.179 ...	H1-1b
70	M53	SR 3/4	.215	6	2	.092	6	38	11537...	14313...	.179	.179 ...	H1-1b
71	M81	SR 3/4	.211	13	2	.183	0	35	11113...	14313...	.179	.179 ...	H1-1b
72	M84	SR 3/4	.210	6	6	.092	6	28	11537...	14313...	.179	.179 ...	H1-1b
73	M20	SR 3/4	.208	13	12	.160	0	27	11113...	14313...	.179	.179 ...	H1-1b
74	M50	SR 3/4	.203	13	10	.162	0	31	11113...	14313...	.179	.179 ...	H1-1b
75	M49	SR 3/4	.200	13	2	.180	0	31	11113...	14313...	.179	.179 ...	H1-1b
76	M80	SR 3/4	.200	13	6	.195	0	35	11113...	14313...	.179	.179 ...	H1-1b
77	M23	SR 3/4	.196	6	4	.094	6	32	11537...	14313...	.179	.179 ...	H1-1b
78	M51	SR 3/4	.191	6	8	.075	6	36	11537...	14313...	.179	.179 ...	H1-1b
79	M19	SR 3/4	.191	13	10	.197	0	27	11113...	14313...	.179	.179 ...	H1-1b
80	M82	SR 3/4	.187	6	12	.073	6	28	11537...	14313...	.179	.179 ...	H1-1b
81	M21	SR 3/4	.174	6	4	.076	6	32	11537...	14313...	.179	.179 ...	H1-1b
82	MP10	PIPE 2.0	.082	41	13	.007	41	13	14916...	32130	1.872	1.872 ...	H1-1b
83	MP6	PIPE 2.0	.082	41	5	.007	41	5	14916...	32130	1.872	1.872 ...	H1-1b
84	MP2	PIPE 2.0	.082	41	9	.007	41	9	14916...	32130	1.872	1.872 ...	H1-1b
85	M24	SR 3/4	.064	0	32	.012	17.5	217	9048....	14313...	.179	.179 ...	H1-1b
86	M22	SR 3/4	.064	17.5	34	.015	17.5	115	9048....	14313...	.179	.179 ...	H1-1b
87	M52	SR 3/4	.064	17.5	27	.016	17.5	215	9048....	14313...	.179	.179 ...	H1-1b
88	M85	SR 3/4	.064	0	27	.013	17.5	68	9048....	14313...	.179	.179 ...	H1-1b
89	M54	SR 3/4	.063	0	35	.012	17.5	161	9048....	14313...	.179	.179 ...	H1-1b
90	M83	SR 3/4	.062	17.5	31	.015	17.5	171	9048....	14313...	.179	.179 ...	H1-1b

Date:	9/26/2019
Client	Smartlink
Carrier	AT&T
Engineer:	TM
	Scotland-Huntington
Site:	Road
Job #:	1106-A0001-B
	238.0' RAD

Code:	LRFD
Bolt Diameter	0.625
Bolt Grade:	A307
Threads Excluded?:	N
Axial (lbs):	2188.53
Shear (lbs):	2244.62

Bolt Info:	
Yield Strength (F_{yb})	36.0 kips
Ultimate Strength (F_{ub})	60.0 kips
Threads/in (n)	11
Gross Area (A_{gb})	0.307 in ²
Net Area (A_{nb})	0.226 in ²

Bolt Capacity (5/8" A307 Bolts), Total of (4) per Connection				
	Ult Load / Bolt	Factored Load ($\phi=0.75$)	# of Bolts	Factor Joint Capacity
Axial (lb)	13560.1	10170.1	4	40680
Shear(lb)	8283.5	6212.6	4	24850

Interaction Check		
$T / \phi T_n$		5.4%
$V / \phi V_n$		9.0%
≤ 1.0		1.1%
		OK

GENERAL NOTES:

- THESE DOCUMENTS WERE DESIGNED IN ACCORDANCE WITH THE LATEST VERSION OF APPLICABLE LOCAL/STATE/COUNTY/CITY BUILDING CODES, AS WELL AS ANSI/TIA-222 STANDARD, AWWA-D100 STANDARD, NDS, NEC, MSJC, AND/OR THE LATEST VERSION OF THE INTERNATIONAL BUILDING CODE, UNLESS NOTED OTHERWISE IN THE CORRESPONDING STRUCTURAL REPORT.
- ALL CONSTRUCTION METHODS SHOULD FOLLOW STANDARDS OF GOOD CONSTRUCTION PRACTICE.
- ALL WORK INDICATED ON THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED CONTRACTORS EXPERIENCED IN SIMILAR CONSTRUCTION.
- ALL NEW WORK SHALL ACCOMMODATE EXISTING CONDITIONS. IF OBSTRUCTIONS ARE FOUND, CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD PRIOR TO CONTINUING WORK.
- ANY CHANGES OR ADDITIONS MUST CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS, AND SHOULD BE SIMILAR TO THOSE SHOWN. ALL CHANGES OR ADDITIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND/OR CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL MISCELLANEOUS SHORING, BRACING, TEMPORARY SUPPORTS, ETC. NECESSARY TO PROVIDE A COMPLETE AND STABLE STRUCTURE DURING CONSTRUCTION. TIA-1019-A-2011 IS AN APPROPRIATE REFERENCE FOR THOSE DESIGNS MEETING TIA STANDARDS. THE ENGINEER OF RECORD MAY PROVIDE FORMAL RIGGING PLANS AT THE REQUEST AND EXPENSE OF THE CONTRACTOR.
- INSTALLATION SHALL NOT INTERFERE NOR DENY ADEQUATE ACCESS TO OR FROM ANY EXISTING OR PROPOSED OPERATIONAL AND SAFETY EQUIPMENT.
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO ANY FABRICATION. CONTACT INFINIGY ENGINEERING IF ANY DISCREPANCIES EXIST.

STEEL CONSTRUCTION NOTES:

- STRUCTURAL STEEL SHALL CONFORM TO THE AISC MANUAL OF STEEL CONSTRUCTION 14TH EDITION, FOR THE DESIGN AND FABRICATION OF STEEL COMPONENTS.
- ALL FIELD CUT SURFACES, FIELD DRILLED HOLES, AND GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZING REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVALITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS' RECOMMENDATIONS.
- ALL FIELD DRILLED HOLES TO BE USED FOR FIELD BOLTING INSTALLATION SHALL BE STANDARD HOLES, AS DEFINED BY AISC, UNLESS NOTED OTHERWISE.
- ALL EXTERIOR STEEL WORK SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123.
- ALL STEEL MEMBERS AND CONNECTIONS SHALL MEET THE FOLLOWING GRADES:
 - ANGLES, CHANNELS, PLATES AND BARS TO BE A36. Fy=36 KSI, U.N.O.
 - W SHAPES TO BE A992. Fy=50 KSI, U.N.O.
 - RECTANGULAR HSS TO BE A500, GRADE B. Fy=46 KSI, U.N.O.
 - ROUND HSS TO BE A500, GRADE B. Fy=42 KSI, U.N.O.
 - STEEL PIPE TO BE A53, GRADE B. Fy=35 KSI, U.N.O.
 - BOLTS TO BE A325-X. Fu=120 KSI, U.N.O.
 - U-BOLTS AND LAG SCREWS TO BE A307 GR A. Fu=60 KSI, U.N.O.
- ALL WELDING SHALL BE DONE USING E70XX ELECTRODES, U.N.O.
- ALL WELDING SHALL CONFORM TO AISC AND AWS D1.1 LATEST EDITION.
- ALL HILTI ANCHORS TO BE CARBON STEEL, U.N.O.
 - MECHANICAL ANCHORS: KWIK BOLT-TZ, U.N.O.
 - CMU BLOCK ANCHORS: ADHESIVE - HY120, U.N.O.
 - CONCRETE ANCHORS: ADHESIVE - HY150, U.N.O.
 - CONCRETE REBAR: ADHESIVE - RE500, U.N.O.
- ALL STUDS TO BE NELSON CAPACITOR DISCHARGE 1/4"-20 LOW CARBON STEEL COPPER-FLASH AT 55 KSI ULT/50 KSI YIELD, U.N.O.
- BOLTS SHALL BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC.
- MINIMUM EDGE DISTANCES SHALL CONFORM TO AISC TABLE J3.4.
- REMOVAL/REPLACEMENT OF STRUCTURAL MEMBERS SHALL BE DONE ONE MEMBER AT A TIME. CONTRACTOR IS RESPONSIBLE FOR ENSURING THE STRUCTURAL INTEGRITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

CONCRETE CONSTRUCTION NOTES:

- CONCRETE TO BE 4000 PSI @ 28 DAYS. REINFORCING BAR TO CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS. CONCRETE INSTALLATION TO CONFORM TO ACI-318 BUILDING REQUIREMENTS FOR REINFORCED CONCRETE. ALL CONCRETE TO BE PLACED AGAINST UNDISTURBED EARTH FREE OF WATER AND ALL FOREIGN OBJECTS AND MATERIALS. A MINIMUM OF THREE INCHES OF CONCRETE SHALL COVER ALL REINFORCEMENT. WELDING OF REBAR IS NOT PERMITTED.
- EXISTING CONCRETE SURFACES THAT ARE TO BE IN CONTACT WITH NEW PROPOSED CONCRETE SHOULD BE WIRE BRUSHED CLEAN AND TREATED WITH APPROPRIATE MECHANICAL SCRATCH COAT AND REPAIR MATERIALS OR APPROPRIATE CHEMICAL METHODS SUCH AS THE APPLICATION OF A BONDING AGENT, EX. SAKRETE OR EQUIVALENT, TO ENSURE A QUALITY BOND BETWEEN EXISTING AND PROPOSED CONCRETE SURFACES.

FIBER REINFORCED POLYMER (FRP) NOTES:

- FRP PLATES, SHAPES, BOLTS AND NUTS (STUD/NUT ASSEMBLIES) SHALL CONFORM TO ASTM D638, 695, 790. PLATES AND SHAPES TO BE FY = 5.35 KSI LW (SAFETY FACTOR OF 8), .945 KSI CW (SAFETY FACTOR OF 8) MIN.
- IF FIELD FABRICATION IS REQUIRED, ALL CUT EDGES AND DRILLED HOLES TO BE SEALED USING VINYL ESTER SEALING KIT SUPPLIED BY THE MANUFACTURER.
- ALL FASTENERS TO BE 1/2" DIA FRP THREADED ROD WITH FIBER REINFORCED THERMOPLASTIC NUT, SPACED AT 12 INCHES ON CENTER MAXIMUM, U.N.O., FOR PANELS AND AS DESIGNED FOR STRUCTURAL MEMBERS.
- THE COLOR AND SURFACE PATTERN OF EXPOSED FRP PANELS SHALL MATCH THE EXTERIOR OF THE EXISTING BUILDING, U.N.O.
- STUD/NUT ASSEMBLIES SHOULD BE LUBRICATED FOR INSTALLATION
- ENSURE BEARING SURFACES OF THE NUTS ARE PARALLEL TO THE SURFACES BEING FASTENED.
- TORQUE BOLTS ACCORDING TO THE FOLLOWING TABLE:

SIZE	ULTIMATE TORQUE STRENGTH	RECOMMENDED MAXIMUM INSTALLATION TORQUE
3/8-16 UNC	8 FT-LBS	4 FT-LBS
1/2-13 UNC	18 FT-LBS	8 FT-LBS
5/8-11 UNC	35 FT-LBS	16 FT-LBS
3/4-10 UNC	50 FT-LBS	24 FT-LBS
1-8 UNC	110 FT-LBS	50 FT-LBS

- WHEN TIGHTENING FRP STUD/NUT ASSEMBLIES, WRENCHES MUST MAKE FULL CONTACT WITH ALL NUT EDGES. A STANDARD SIX POINT SOCKET IS RECOMMENDED.
- STUD/NUT ASSEMBLIES SHOULD BE BONDED BY APPLYING BONDING AGENT TO ENTIRE NUT AND EXPOSED STUD.
- ALL FRP MATERIALS TO BE PROVIDED BY FIBERGRATE COMPOSITE STRUCTURES, DALLAS TX, OR APPROVED EQUAL.
- ALL FRP SHAPES TO BE DYNFORM PULTRUDED STRUCTURAL SHAPES.
- ALL FRP PLATES TO BE FIBERPLATE MOLDED FRP PLATE.
- ALL FRP PANELS TO BE FIBERPLATE CLADDING PANEL.
- EACH FRP PANEL TO BE IDENTIFIED WITH LARR#25536 AND FIBERGRATE COMPOSITE STRUCTURAL LABEL.
- FRP MATERIAL TO BE CLASSIFIED AS CC1 OR BETTER, AND HAVE MAXIMUM FLAME SPREAD OF 50.
- ALL DESIGN AND CONSTRUCTION TO BE COMPLETED IN ACCORDANCE WITH LOS ANGELES RESEARCH REPORT RR25536, DATED FEBRUARY 1, 2016.
- SPECIAL INSPECTIONS MUST BE PROVIDED FOR ALL FRP INSTALLMENTS. SEE SPECIAL INSPECTION SECTION, THIS SHEET.

RATIO OF EDGE DISTANCE TO FRP FASTENER DIAMETER		
	RANGE	RECOMMENDED
EDGE DISTANCE - CL* BOLT TO END	2.0-4.0	3.0
EDGE DISTANCE - CL* BOLT TO SIDE	1.5-3.5	2.5
BOLT PITCH - CL* TO CL*	4.0-5.0	5.0

WOOD CONSTRUCTION NOTES:

- ALL EXISTING WOOD SHAPES ARE ASSUMED TO BE DOUGLAS FIR-LARCH WITH A REFERENCE DESIGN BENDING VALUE OF 1000 PSI MIN.
- ALL PROPOSED WOOD SHAPES ARE TO BE DOUGLAS FIR-LARCH WITH A REFERENCE DESIGN BENDING VALUE OF 1000 PSI MIN. U.N.O.
- ALL EXISTING AND PROPOSED GLUED LAMINATED TIMBERS ARE TO BE 24F-1.8C DOUGLAS FIR BALANCED WITH A REFERENCE DESIGN BENDING VALUE OF 2400 PSI MIN. U.N.O.

MASONRY CONSTRUCTION NOTES:

- ALL BRICK TO BE 1500 PSI MIN. REINFORCING BAR (IF APPLICABLE) TO CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS. ALL MORTAR TO BE 2000 PSI MIN.
 - FOR INTERIOR/ABOVE GRADE APPLICATIONS TYPE N MORTAR HAVING MINIMUM MODULUS OF RUPTURE OF 100 PSI SHALL BE USED. FOR EXTERIOR/BELOW GRADE APPLICATIONS TYPE M OR S MORTAR HAVING A MINIMUM MODULUS OF RUPTURE OF 133 PSI.
 - BRICK AND MORTAR INSTALLATION TO CONFORM TO MSJC BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES.
- ALL CMU TO BE 1500 PSI MIN. REINFORCING BAR (IF APPLICABLE) TO CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS. ALL MORTAR TO BE 2000 PSI MIN.
 - FOR INTERIOR/ABOVE GRADE APPLICATIONS, TYPE N MORTAR HAVING MINIMUM MODULUS OF RUPTURE OF 64 PSI SHALL BE USED FOR UNGROUTED BLOCKS, AND 158 PSI FOR FULLY GROUTED BLOCKS.
 - FOR EXTERIOR/BELOW GRADE APPLICATIONS TYPE M OR S MORTAR HAVING A MINIMUM MODULUS OF RUPTURE OF 84 PSI SHALL BE USED FOR UNGROUTED BLOCKS, AND 163 PSI FOR FULLY GROUTED BLOCKS.
 - BRICK AND MORTAR INSTALLATION TO CONFORM TO MSJC BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES.

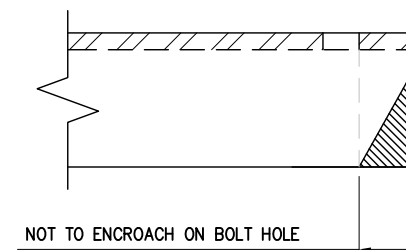
TOWER PLUMB & TENSION NOTES:

- PLUMB AND TENSION TOWER UPON COMPLETION OF STRUCTURAL MODIFICATIONS DETAILED IN THESE DRAWINGS.
- RE-TENSIONING OF EXISTING GUY WIRES SHALL BE PERFORMED AT A TIME WHEN THE WIND VELOCITY IS LESS THAN 10 MPH AT GROUND LEVEL AND WITH NO ICE ON THE STRUCTURE AND GUY WIRES.
- PLUMB THE TOWER WHILE RETENSIONING THE EXISTING GUY WIRES. THE HORIZONTAL DISTANCE BETWEEN THE VERTICAL CENTERLINES AT ANY TWO ELEVATIONS SHALL NOT EXCEED 0.25% OF THE VERTICAL DISTANCE BETWEEN TWO ELEVATIONS FOR LATTICED STRUCTURES.
- THE TWIST BETWEEN ANY TWO ELEVATIONS THROUGHOUT THE HEIGHT OF A LATTICE STRUCTURE SHALL NOT EXCEED 0.5 DEGREES IN 10 FEET. THE MAXIMUM TWIST OVER THE LATTICE STRUCTURE HEIGHT SHALL NOT EXCEED 5 DEGREES.

SPECIAL INSPECTIONS NOTES:

- A QUALIFIED INDEPENDENT TESTING LABORATORY, EMPLOYED BY THE OWNER AND APPROVED BY THE JURISDICTION, SHALL PERFORM INSPECTION AND TESTING IN ACCORDANCE WITH THE GOVERNING BUILDING CODE, APPLICABLE SECTION(S) AS REQUIRED BY PROJECT SPECIFICATIONS FOR THE FOLLOWING CONSTRUCTION WORK:
 - STRUCTURAL WELDING (CONTINUOUS INSPECTION OF FIELD WELDS ONLY).
 - HIGH STRENGTH BOLTS (PERIODIC INSPECTION OF A325 AND/OR A490 BOLTS) TO BE TIGHTENED PER "TURN-OFF-THE-NUT" METHOD.
 - MECHANICAL AND EPOXIED ANCHORAGES.
 - FIBER REINFORCED POLYMER.
 - THE SPECIAL INSPECTOR MUST VERIFY THAT THE FRP MATERIAL SPECIFIED ON THE APPROVED DESIGN DOCUMENTS IS BEING INSTALLED.
 - THE SPECIAL INSPECTOR MUST VERIFY THAT ALL CUT EDGES AND DRILLED HOLES ARE PROPERLY SEALED USING A VINYL ESTER SEALING KIT SUPPLIED BY THE MANUFACTURER.
 - THE SPECIAL INSPECTOR MUST VERIFY THAT THE STRUCTURE IS BUILT IN ACCORDANCE WITH THE APPROVED DESIGN DOCUMENTS.
- THE INSPECTION AGENCY SHALL SUBMIT INSPECTION AND TEST REPORTS TO THE BUILDING DEPARTMENT, THE ENGINEER OF RECORD, AND THE OWNER UNLESS THE FABRICATOR IS APPROVED BY THE BUILDING OFFICIAL TO PERFORM WORK WITHOUT THE SPECIAL INSPECTIONS.

MAXIMUM ALLOWABLE ANGLE CLIP



10-02-19

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF APPLICABLE STATE AND/OR LOCAL LAWS.

0	ISSUED FOR REVIEW	WJD	09/30/19
No.	Submission / Revision	App'd	Date
	WJD		09/30/19
	TM		09/26/19
	BDA		09/30/19

Project Number:
1106-A0001-B

Project Title:
SCOTLAND
-HUNTINGTON ROAD
CTL01242
FA# 10050915
165 HUNTINGTON ROAD
SCOTLAND, CT 06264

Prepared For:
smartlink

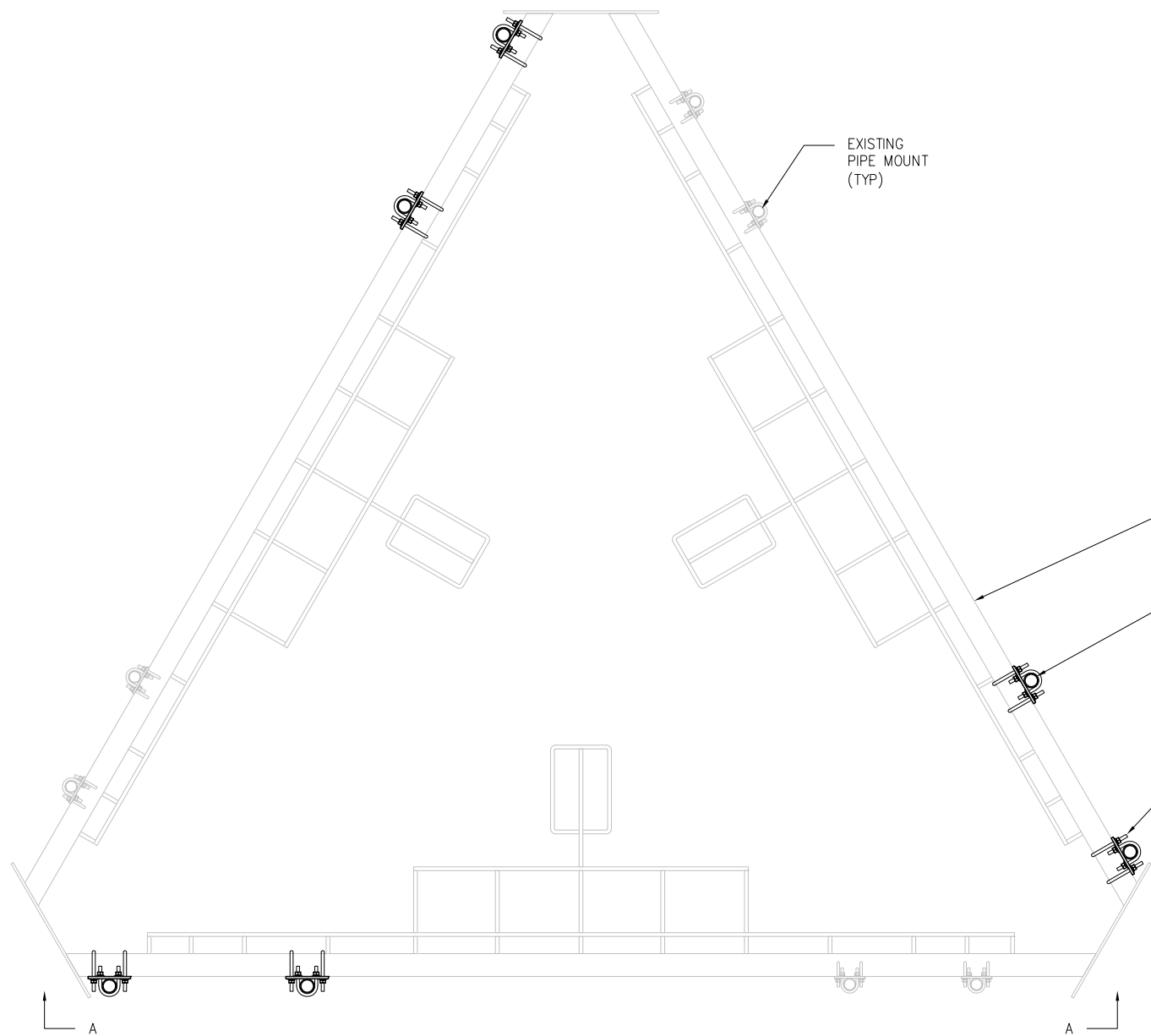
Drawing Scale:
AS NOTED

Date:
09/30/19

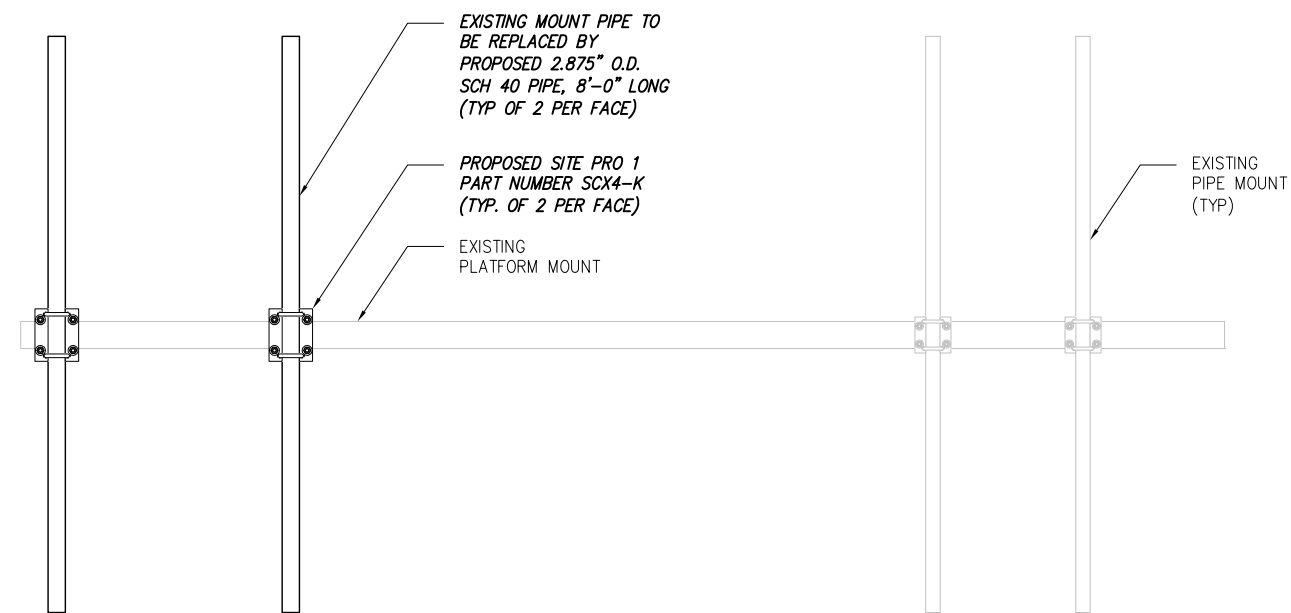
0

GENERAL NOTES

Drawing Number
S1



1 PLAN VIEW
SCALE: NOT TO SCALE

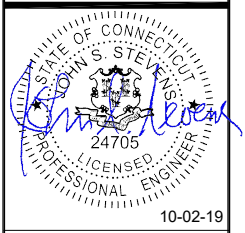


2 SECTION A-A
SCALE: NOT TO SCALE

NOTES:

- VARIOUS EXISTING CONDITIONS AND PROPOSED MODIFICATIONS NOT SHOWN FOR CLARITY.
- ALL DESIGNATED PARTS / PART NUMBERS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- MODIFICATIONS SHOWN ARE FOR ENTIRE PLATFORM MOUNT.
- REMOVAL/REPLACEMENT OF STRUCTURAL MEMBERS SHALL BE DONE ONE MEMBER AT A TIME. CONTRACTOR IS RESPONSIBLE FOR ENSURING THE STRUCTURAL INTEGRITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

INFINIGY
 INFINIGY ENGINEERING, PLLC
 1033 WaterVliet Shaker Rd
 Albany, NY 12205
 Office # (518) 660-0790
 Fax # (518) 660-0793



UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF APPLICABLE STATE AND/OR LOCAL LAWS.

No.	Submission / Revision	App'd	Date
0	ISSUED FOR REVIEW	WJD	09/30/19

Drawn: WJD Date: 09/30/19
 Designed: TM Date: 09/26/19
 Checked: BDA Date: 09/30/19

Project Number: 1106-A0001-B

Project Title:
SCOTLAND -HUNTINGTON ROAD
 CTL01242
 FA# 10050915
 165 HUNTINGTON ROAD
 SCOTLAND, CT 06264

Prepared For:

Drawing Scale: AS NOTED
 Date: 09/30/19

Drawing Title:
MOUNT MODIFICATION DETAILS

Drawing Number:
S2

Post Mod Mount Analysis Report

October 25, 2019

Site Name	Scotland-Huntington Road
FA Number	10050915
Smartlink Site Number	CTL01242
PACE Number	MRCTB041459 / MRCTB041363 / MRCTB041579 MRCTB041512 / MRCTB041755
PTN Number	2051A0Q8RZ / 2051A0QAJ0 / 2051A0Q7X8 2051A0QANW / 2051A0Q8G5
Infinigy Job Number	1106-A0001-B
Client	Smartlink
Carrier	AT&T Mobility
Site Location	165 Huntington Road Scotland, CT 6264 Windham County 41.6960061 N NAD83 72.0965881 W NAD83
Mount Centerline EL.	238.0 ft
Mount Type	Platform
Structural Usage Ratio	94.0%
Overall Result	Pass
Note	See appended documents for mount modifications.

Upon reviewing the results of this analysis, it is our opinion that the post modification mount meets the specified TIA and ASCE code requirements. The mounts and connections for the proposed carrier are therefore deemed adequate to support the final loading configuration as listed in this report.



Thomas Marr
Project Engineer I

Contents

Introduction.....	3
Supporting Documentation.....	3
Analysis Code Requirements.....	3
Conclusion.....	3
Final Configuration Loading.....	4
Mount Usages.....	4
Mount Connections Usages.....	4
Assumptions and Limitations.....	5
Calculations.....	Appended

Introduction

Infinigy Engineering has been requested to perform a post modification mount analysis on the existing AT&T Mobility mounts. All referenced supporting documents have been obtained from the client and are assumed to be accurate and applicable to this site. The mount was analyzed using RISA-3D Version 17.0.4 analysis software.

Supporting Documentation

RFDS	RFDS ID #3167716, dated May 30, 2019
Construction Drawings	Hudson Design Group, dated September 17, 2012
Mount Specifications	Pirod Assembly Drawing #135941-B, October 22, 1998
Site Photos	Provided by Infinigy, dated June 26, 2019
Previous Mount Analysis	Infinigy Engineering Job #1106-A0001-B, dated September 20, 2019

Analysis Code Requirements

Wind Speed	129 mph (3-Second Gust)
Wind Speed w/ Ice	50 mph (3 Second Gust) w/ 1.275" Ice
TIA Revision	ANSI/TIA-222-H
Adopted IBC	2015 IBC / 2018 Connecticut Building Code
Structure Class	II
Exposure Category	C
Topographic Category	1
Spectral Response	$S_s = 0.172 g$, $S_1 = 0.062 g$
Site Class	D - Stiff Soil
HMSL	359 ft.

Conclusion

Upon reviewing the results of this analysis, it is our opinion that the post modification mount meets the specified TIA and ASCE code requirements. The mount and connections for the proposed carrier are therefore deemed adequate to support the existing and proposed loading as listed in this report.

If you have any questions, require additional information, or actual conditions differ from those as detailed in this report please contact me via the information below:

Thomas Marr
 Project Engineer I | **INFINIGY**
 1033 Watervliet Shaker Road, Albany, NY 12205
 (O) (518) 690-0790
 Structural@infinigy.com | www.infinigy.com
 CTL01242_Scotland-Huntington Road

Final Configuration Loading

Mount CL (ft)	Vert. O/S (ft)	Rad. HT (ft)	Horiz. O/S (ft) ⁽¹⁾	Qty	Appurtenance ⁽²⁾	Carrier
238.0	0.0	238.0	15.5	3	POWERWAVE 7770.00	AT&T
			0.6, 4.2	6	CCI DMP65R-BU8DA	
			15.5	6	POWERWAVE LGP21401	
			4.2	3	ERICSSON RRUS 4478 B14	
			0.6	3	ERICSSON 4449 B5/B12	
			0.6	3	ERICSSON 8843 B2/B66A	
			--	3	RAYCAP DC6-48-60-18-8F	

(1) Horizontal Offset is defined as the distance from the left most edge of the mount face horizontal when viewed facing the tower

(2) Raycap assumed to be installed directly on tower

Mount Usages

Horizontals	52.8%	Pass
Handrails	58.0%	Pass
Standoffs	94.0%	Pass
Mount Pipes	65.9%	Pass
Bracing	79.7%	Pass
Bolts	9.2%	Pass
Max Usage	94.0%	Pass

Mount Connection Usages

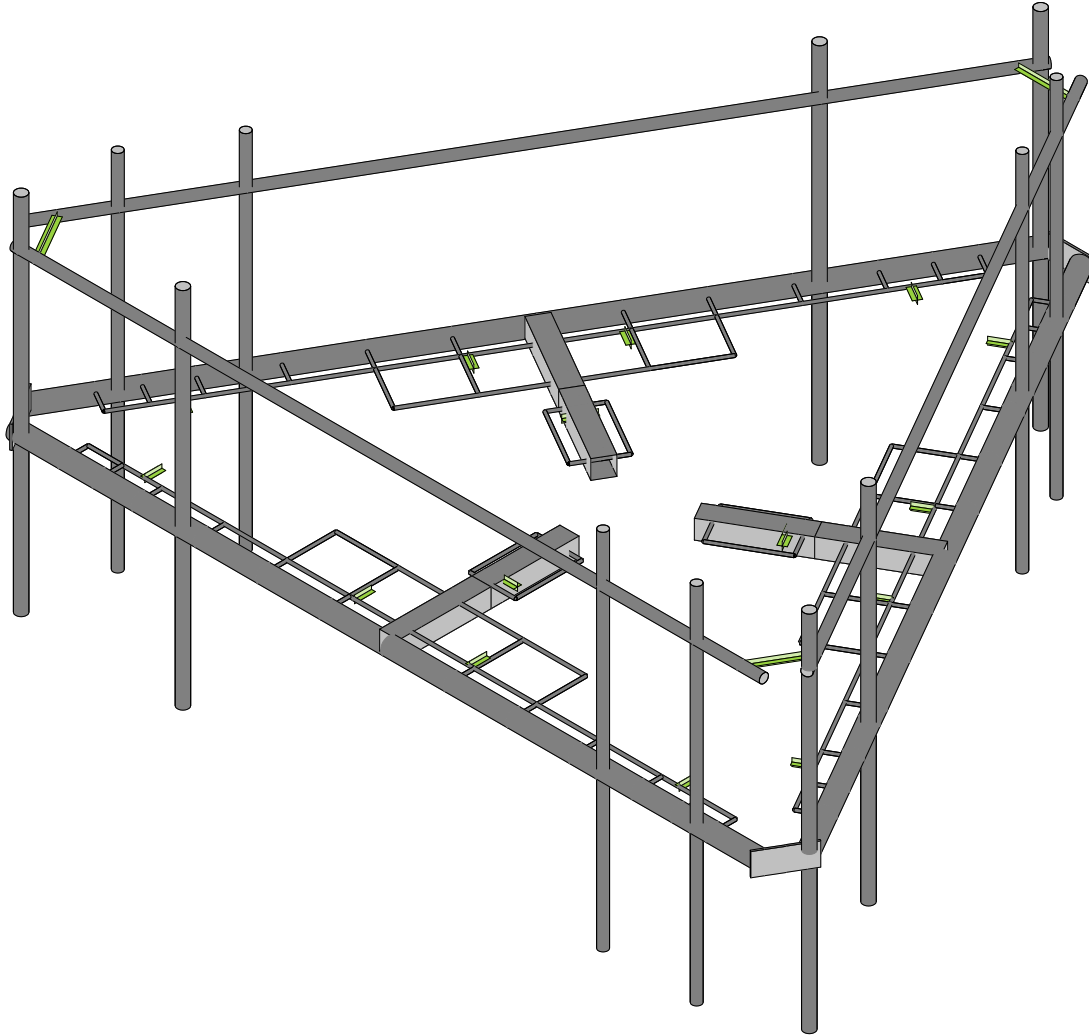
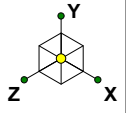
Reaction Data	Design Capacity*	Analysis Reactions	Results
Max Tension (lbs.)	40680.0	2275.51	5.6%
Max Shear (lbs.)	24850.0	2274.00	9.2%
Unity Check	-	-	1.2%
*Assumed (4) 0.625" A307 Bolts. Contractor to field verify prior to proposed installation.			

Assumptions and Limitations

Our structural calculations are completed assuming all information provided to Infinigy Engineering is accurate and applicable to this site. For the purposes of calculations, we assume an overall structure condition of “like new” and all members and connections to be free of corrosion and/or structural defects. The structure owner and/or contractor shall verify the structure’s condition prior to installation of any proposed equipment. If actual conditions differ from those described in this report Infinigy Engineering should be notified immediately to complete a revised evaluation.

Our evaluation is completed using standard TIA, AISC, ACI, and ASCE methods and procedures. Our structural results are proprietary and should not be used by others as their own. Infinigy Engineering is not responsible for decisions made by others that are or are not based on our supplied assumptions and conclusions.

This report is an evaluation of the proposed carriers mount structure only and does not reflect adequacy of the existing tower, other mounts, or coax mounting attachments. These elements are assumed to be adequate for the purposes of this analysis and are assumed to have been installed per their manufacturer requirements.



Envelope Only Solution

Infinigy Engineering, PLLC.

TM

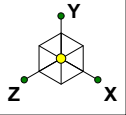
1106-A0001-B

Scotland - Huntington Road

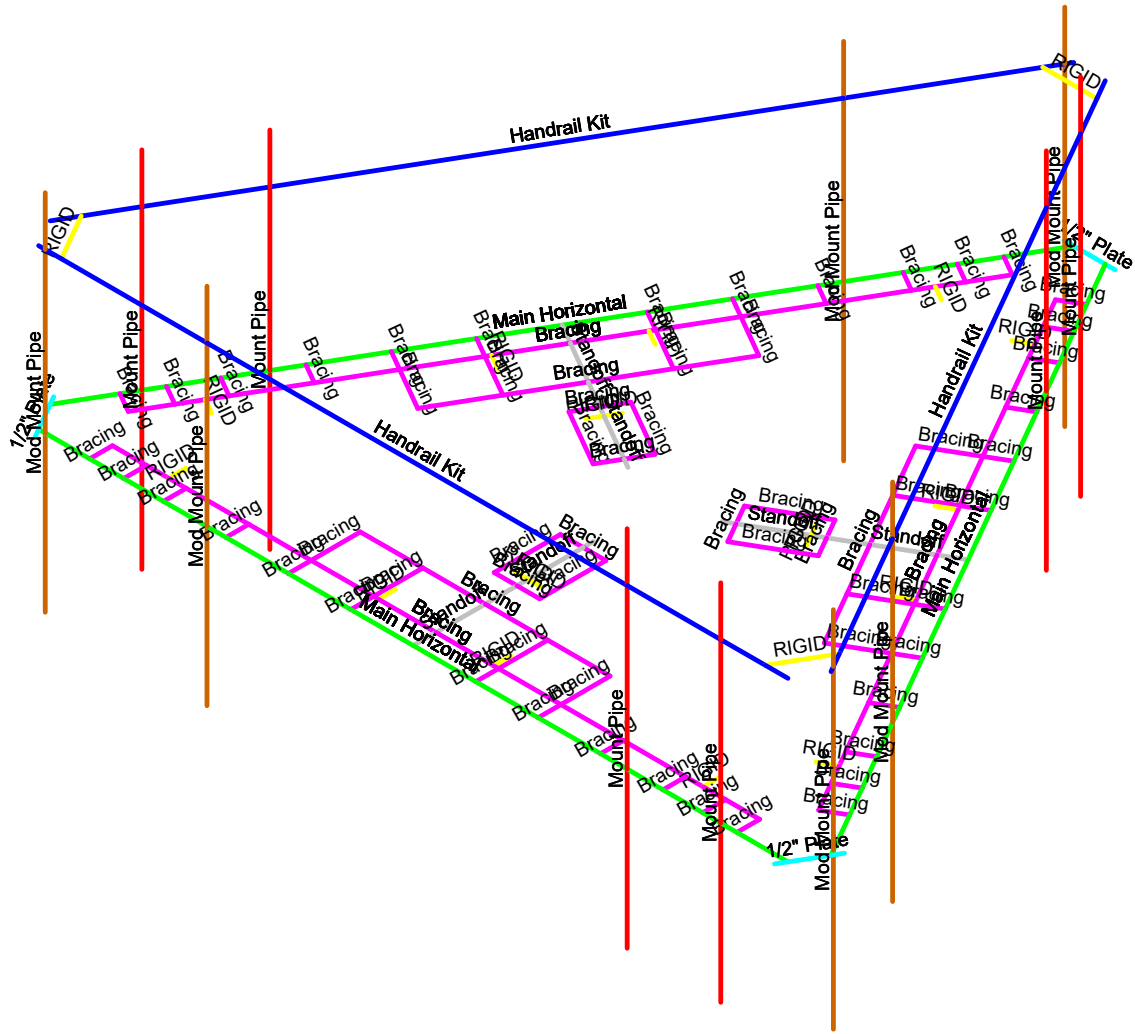
Final Configuration

Oct 18, 2019 at 9:35 AM

CTL01242_MOD_loaded.r3d



Section Sets	
█	Handrail Kit
█	Main Horizontal
█	Mount Pipe
█	Standoff
█	Bracing
█	1/2" Plate
█	Mod Mount Pipe
█	RIGID

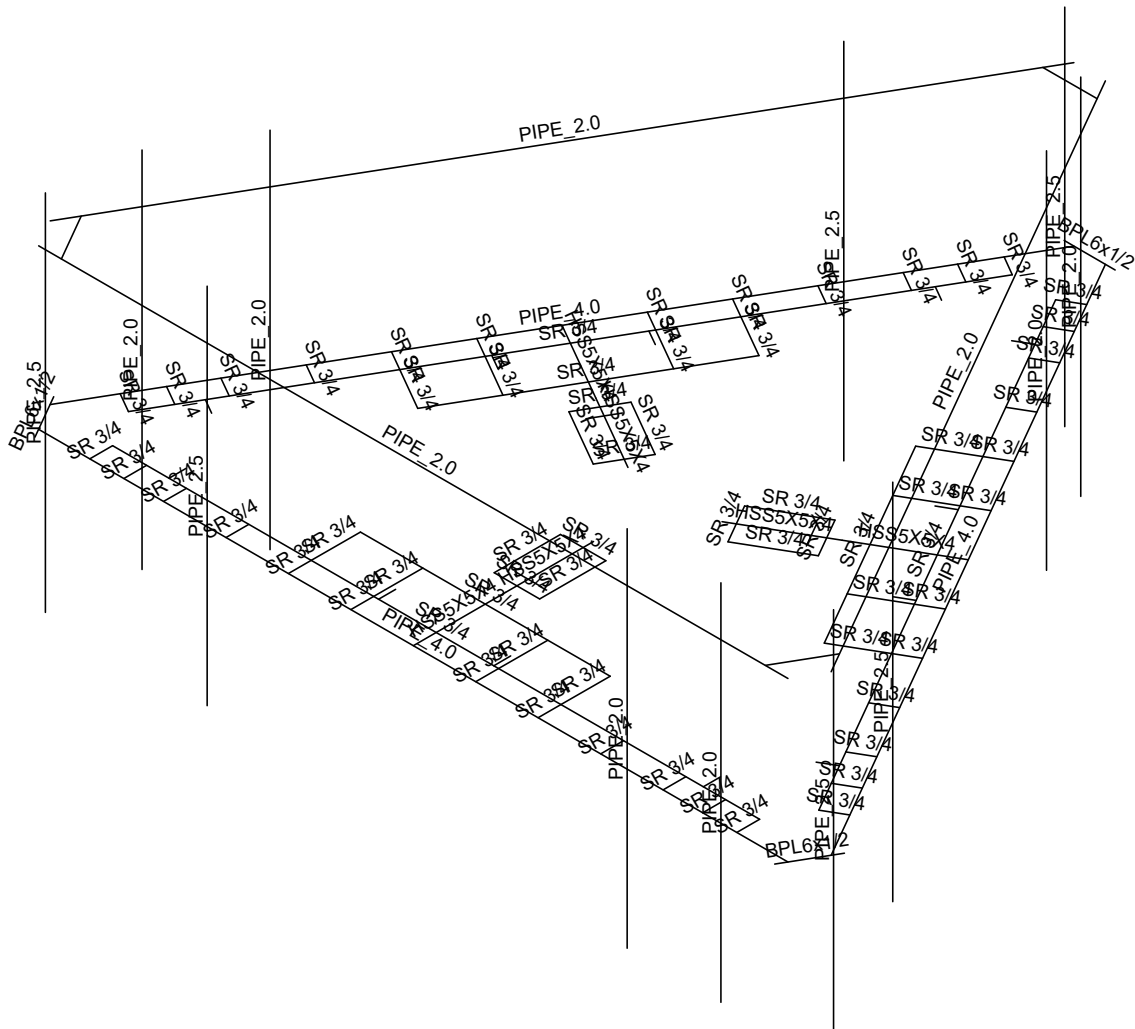
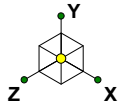


Envelope Only Solution

Infinigy Engineering, PLLC.
TM
1106-A0001-B

Scotland - Huntington Road

Section Sets
Oct 18, 2019 at 9:35 AM
CTL01242_MOD_loaded.r3d



Envelope Only Solution

Infinigy Engineering, PLLC.

TM

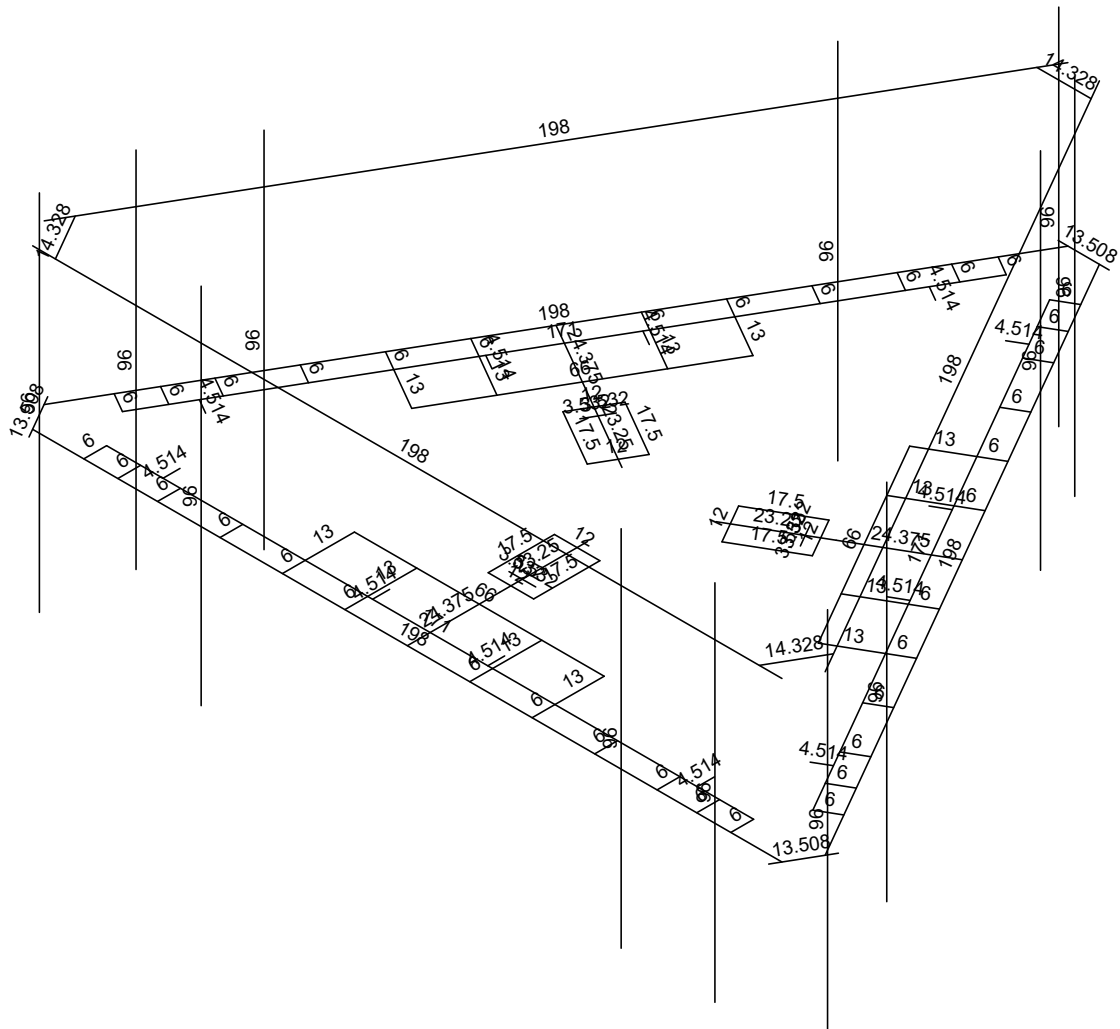
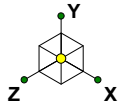
1106-A0001-B

Scotland - Huntington Road

Member Shape

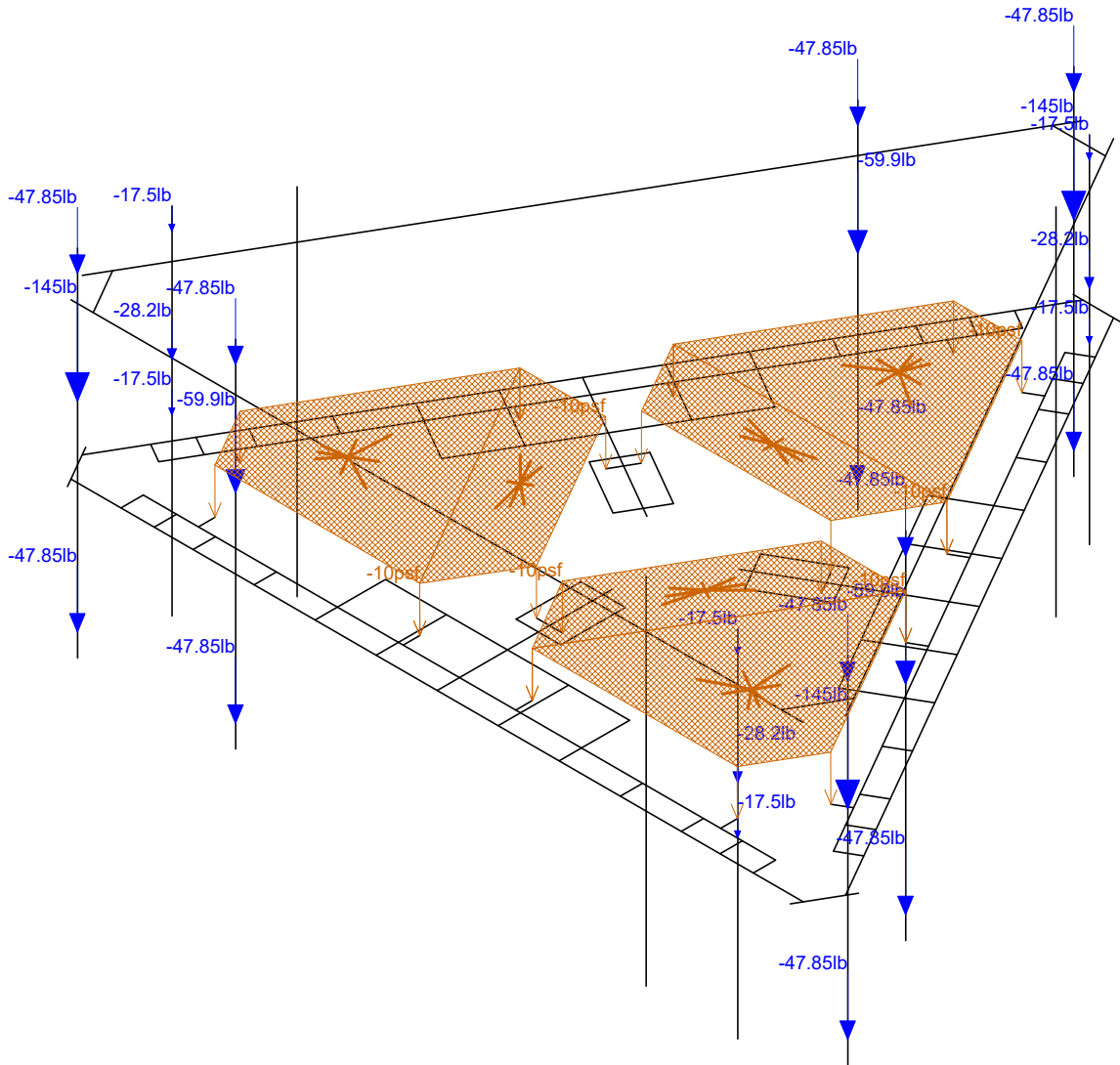
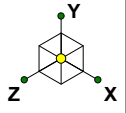
Oct 18, 2019 at 9:35 AM

CTL01242_MOD_loaded.r3d



Member Length (in) Displayed
Envelope Only Solution

Infinigy Engineering, PLLC.	Scotland - Huntington Road	Member Length
TM		Oct 18, 2019 at 9:35 AM
1106-A0001-B		CTL01242_MOD_loaded.r3d



Loads: BLC 1, Self Weight
Envelope Only Solution

Infinigy Engineering, PLLC.

TM

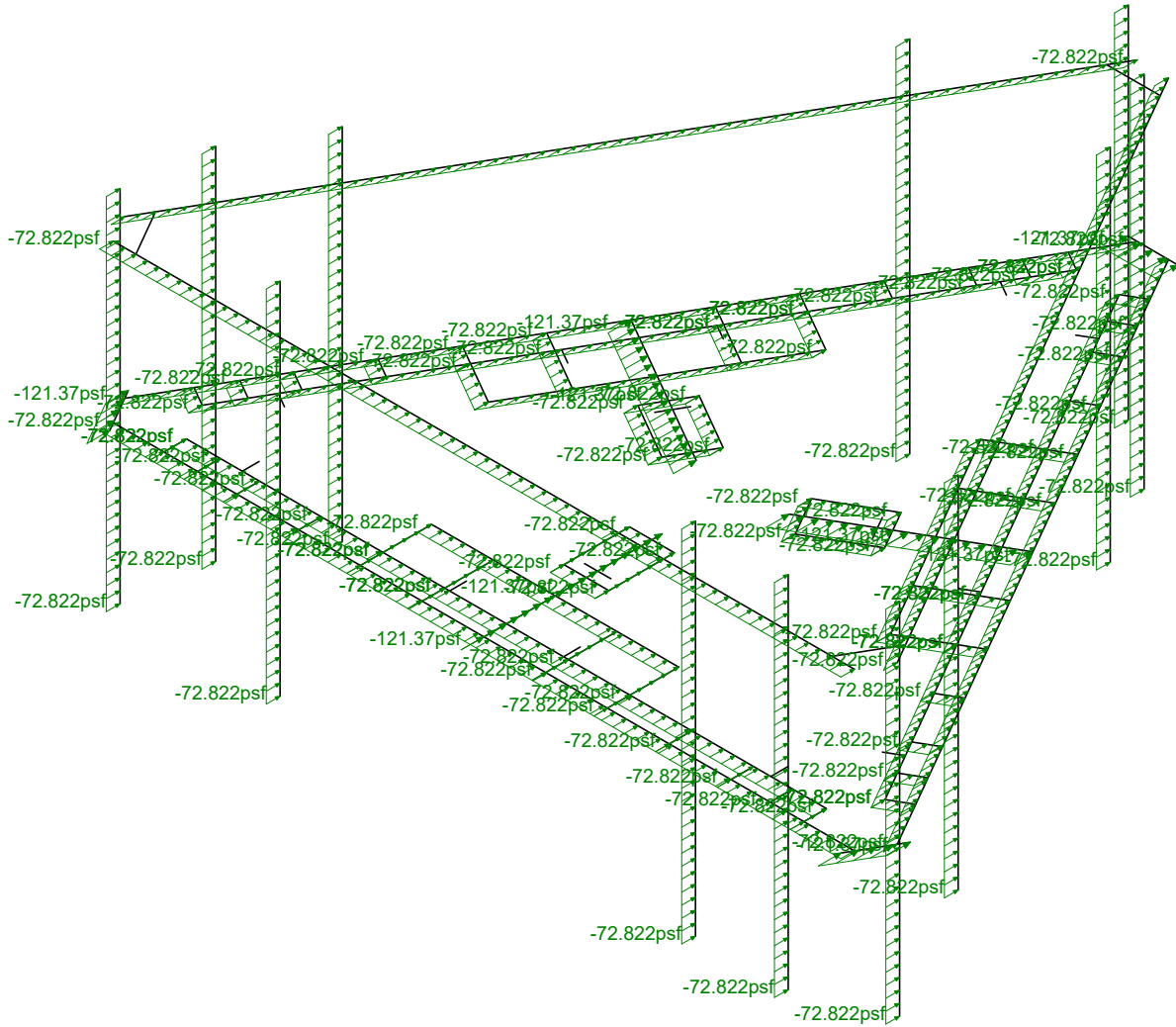
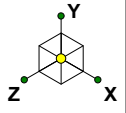
1106-A0001-B

Scotland - Huntington Road

Self Weight

Oct 18, 2019 at 9:35 AM

CTL01242_MOD_loaded.r3d



Loads: BLC 14, Distr. Wind Load Z
Envelope Only Solution

Infinigy Engineering, PLLC.

TM

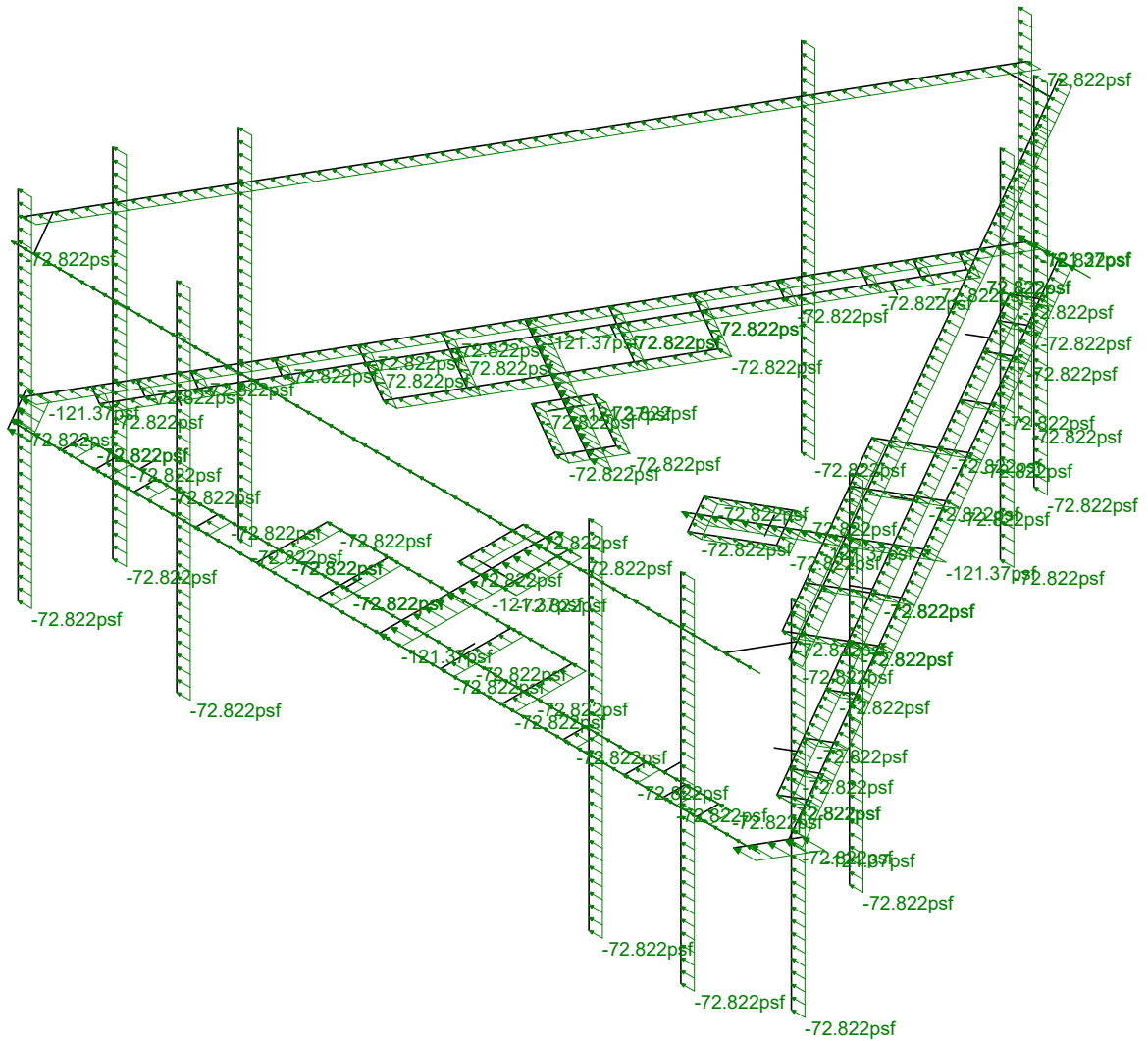
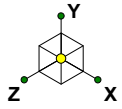
1106-A0001-B

Scotland - Huntington Road

Wind Load AZI 000

Oct 18, 2019 at 9:36 AM

CTL01242_MOD_loaded.r3d



Loads: BLC 15, Distr. Wind Load X
Envelope Only Solution

Infinigy Engineering, PLLC.

TM

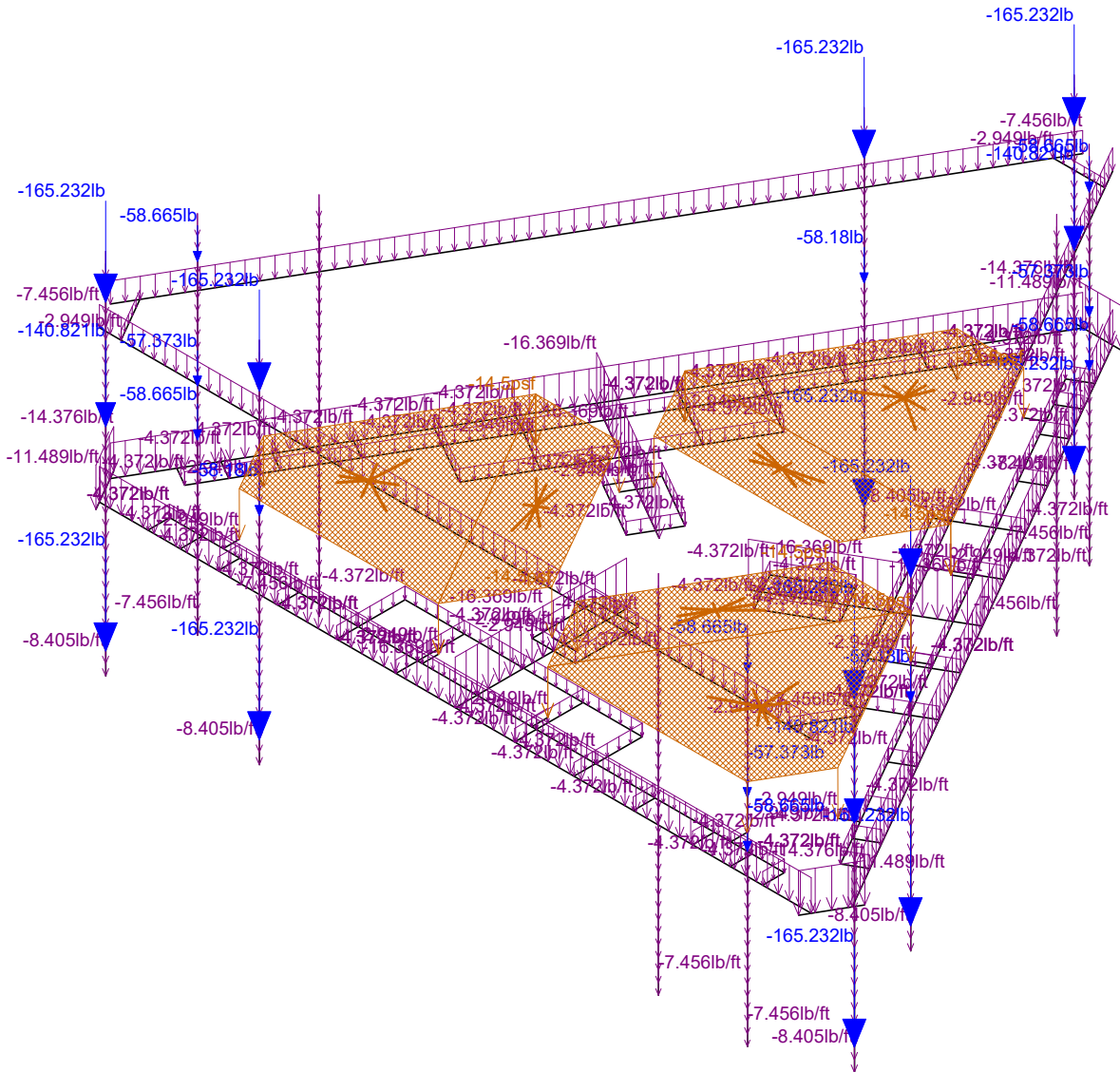
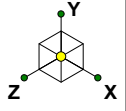
1106-A0001-B

Scotland - Huntington Road

Wind Load AZI 090

Oct 18, 2019 at 9:36 AM

CTL01242_MOD_loaded.r3d

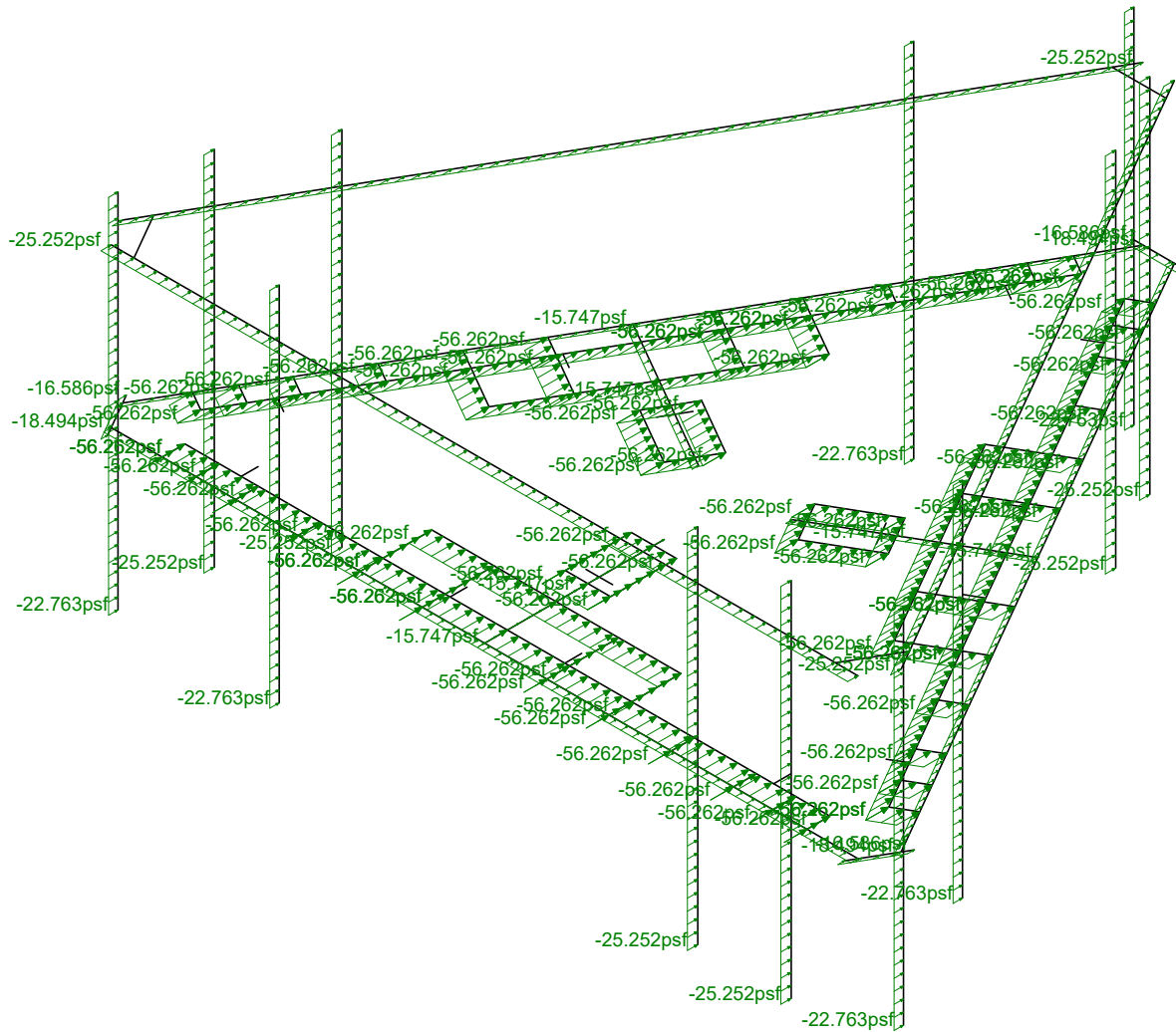
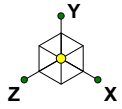


Loads: BLC 16, Ice Weight
Envelope Only Solution

Infinigy Engineering, PLLC.
TM
1106-A0001-B

Scotland - Huntington Road

Ice Weight
Oct 18, 2019 at 9:36 AM
CTL01242_MOD_loaded.r3d



Loads: BLC 29, Distr. Ice Wind Load Z
Envelope Only Solution

Infinigy Engineering, PLLC.

TM

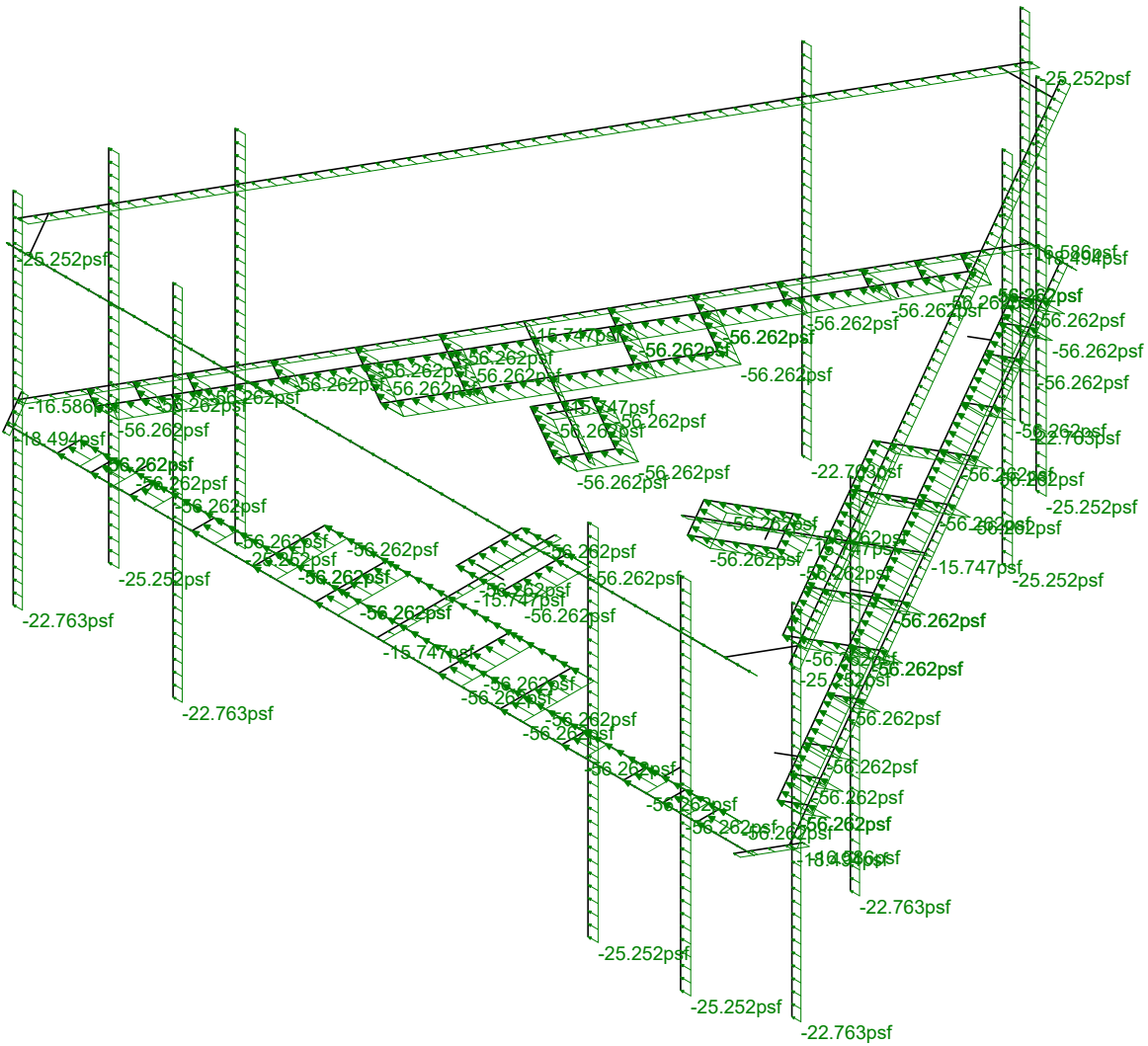
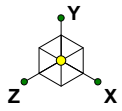
1106-A0001-B

Scotland - Huntington Road

Wind + Ice Load AZI 000

Oct 18, 2019 at 9:36 AM

CTL01242_MOD_loaded.r3d

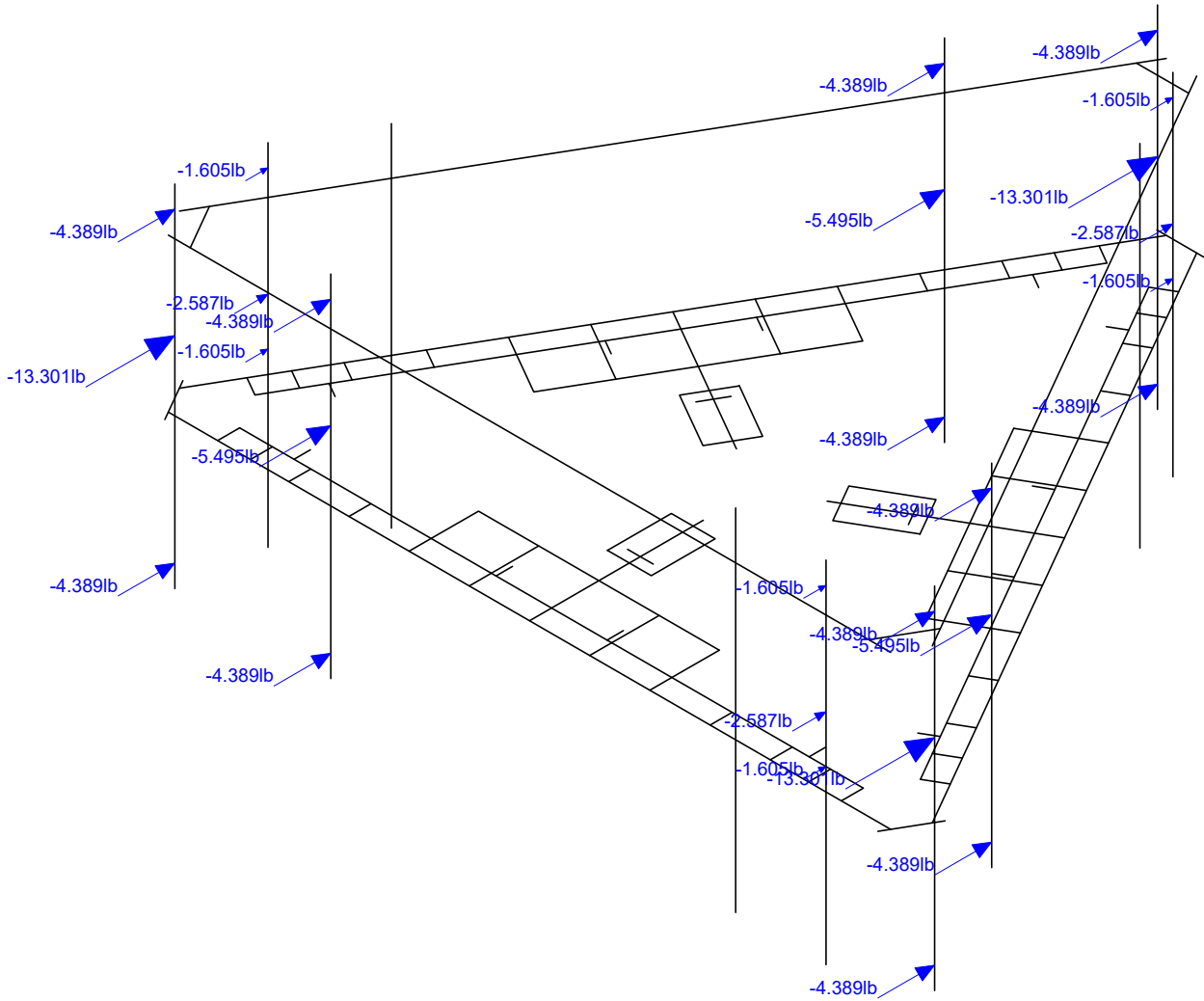
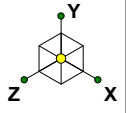


Loads: BLC 30, Distr. Ice Wind Load X
Envelope Only Solution

Infinigy Engineering, PLLC.
TM
1106-A0001-B

Scotland - Huntington Road

Wind + Ice Load AZI 090
Oct 18, 2019 at 9:37 AM
CTL01242_MOD_loaded.r3d

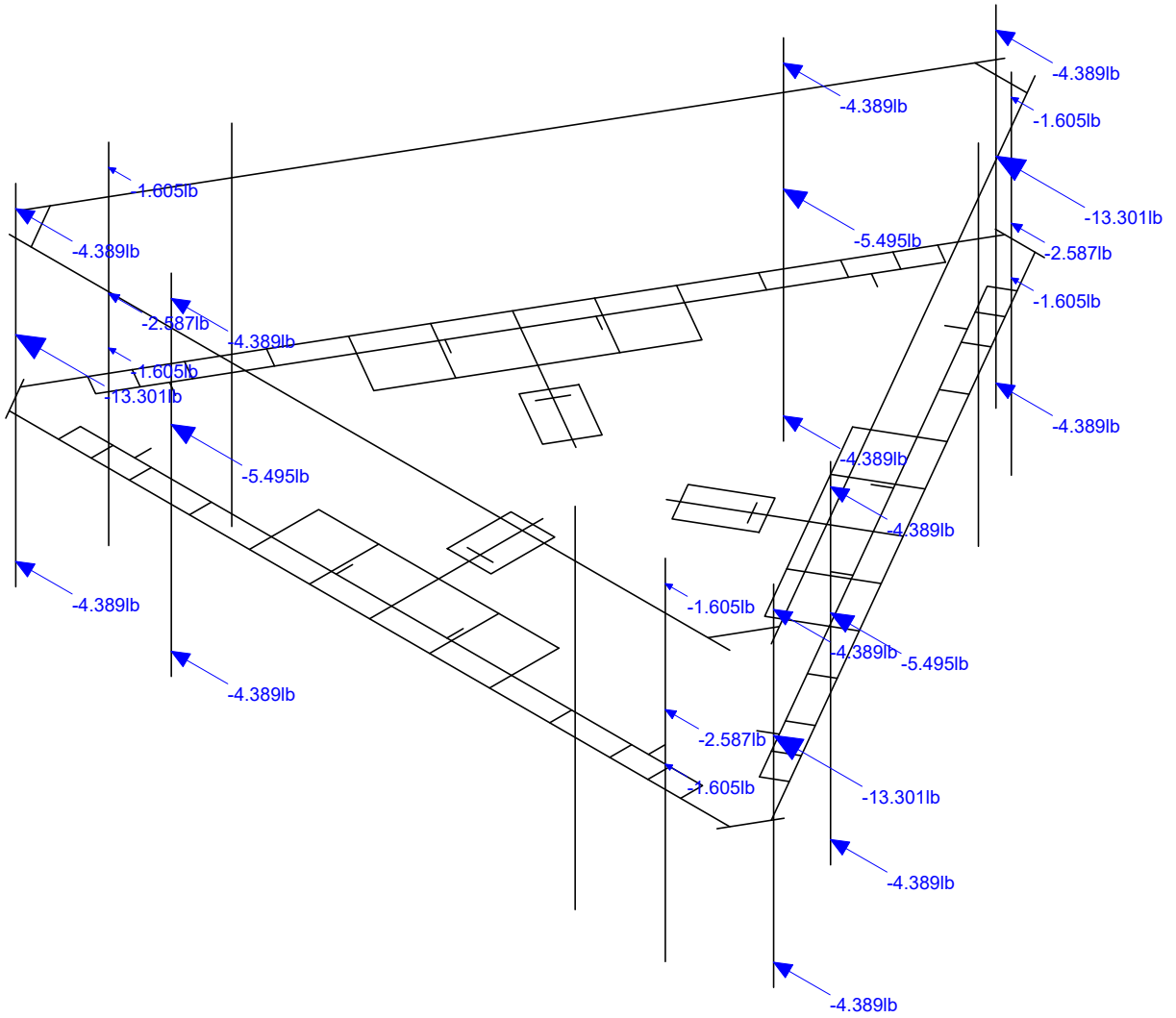
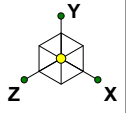


Loads: BLC 31, Seismic Load Z
Envelope Only Solution

Infinigy Engineering, PLLC.
TM
1106-A0001-B

Scotland - Huntington Road

Seismic Load AZI 000
Oct 18, 2019 at 9:37 AM
CTL01242_MOD_loaded.r3d

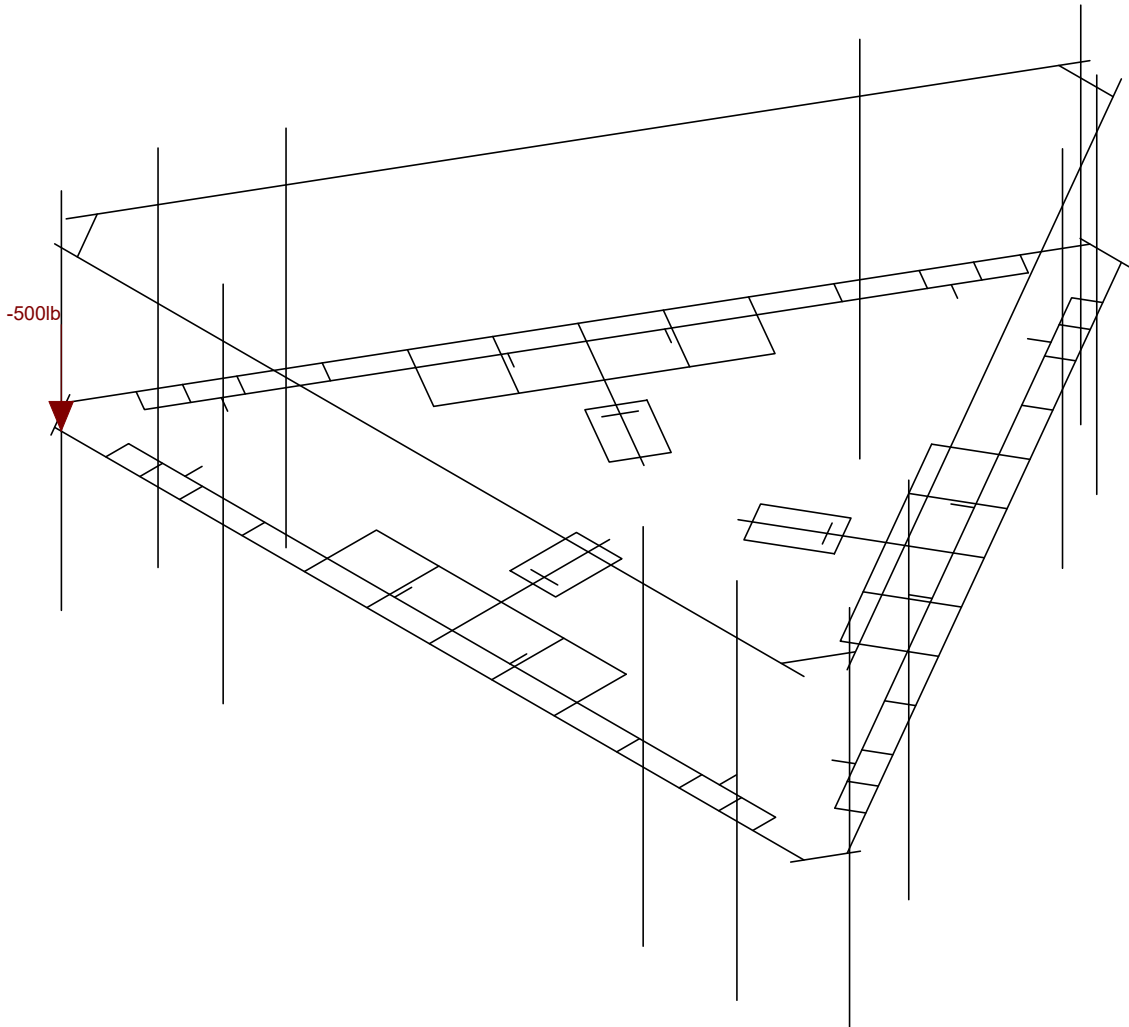
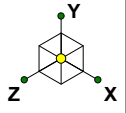


Loads: BLC 32, Seismic Load X
Envelope Only Solution

Infinigy Engineering, PLLC.
TM
1106-A0001-B

Scotland - Huntington Road

Seismic Load AZI 090
Oct 18, 2019 at 9:37 AM
CTL01242_MOD_loaded.r3d



Loads: BLC 33, Service Live Loads
Envelope Only Solution

Infinigy Engineering, PLLC.

TM

1106-A0001-B

Scotland - Huntington Road

Service Load

Oct 18, 2019 at 9:37 AM

CTL01242_MOD_loaded.r3d

Program Inputs

Project Information		
Client:	Smartlink	
Carrier:	AT&T	
Engineer:	TM	



Code Standards		
Building Code:	2015 IBC	
TIA Standard:	TIA-222-H	
ASCE Standard:	ASCE 7-10	

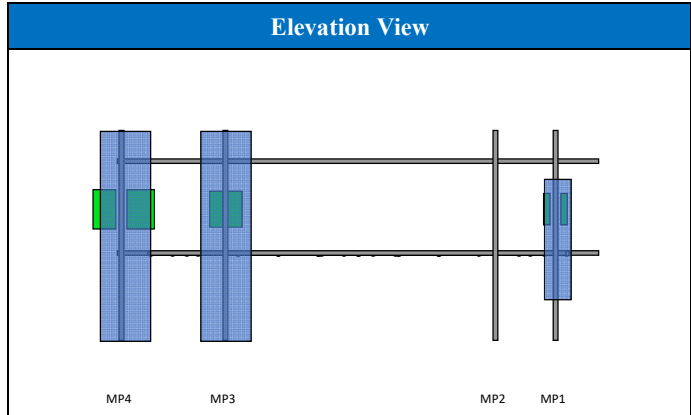
Mount Information		
Mount Type:	Platform	
Num Sectors:	3	
Centerline AGL:	238.0	ft
Roof Height AGL:	0.0	ft

Site Information		
Risk Category:	II	
Exposure Category:	C	
Topo Category:	1	
Site Class:	D - Stiff Soil	
Ground Elevation:	359	ft

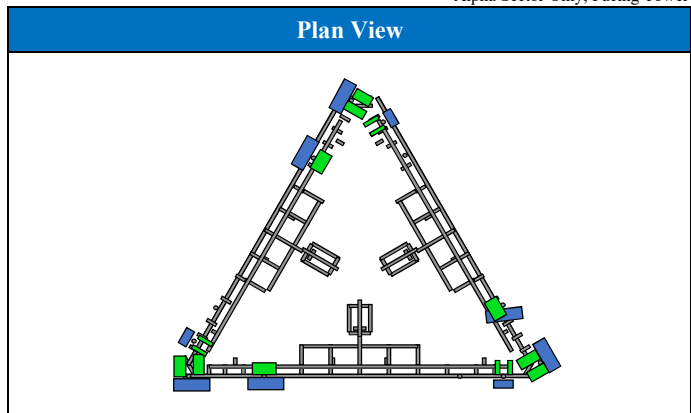
Wind and Ice Data		
Ultimate Wind:	129	mph
Basic Wind:	N/A	mph
Ice Wind:	50	mph
Ice Thickness:	1.275	in

Topographic Data		
Topo Feature:	N/A	
Crest Height:	N/A	ft
Slope Distance:	N/A	ft
Crest Distance:	N/A	ft

Seismic Data		
S _v :	0.17	g
S _i :	0.06	g
a _p :	1.0	
R _p :	2.50	
Ω _v :	1.0	
S _{DS} :	0.18	
S _{DI} :	0.10	
F _a :	1.60	
F _v :	2.40	



*Alpha Sector Only, Facing Tower



*Alpha Sector at Bottom

Appurtenance Information**											
Appurtenance Name	Elevation	Qty.	q _z (psf)	EPA _N (ft ²)	EPA _T (ft ²)	Wind F _z (lbs)	Wind F _x (lbs)	Weight (lbs)	Seismic F (lbs)		Member (α sector)
POWERWAVE TECHNOLOGIES 7770.00	238.0	3	60.68	5.51	2.93	300.85	159.93	35.00	3.21		MP1
CCI ANTENNAS DMP65R-BU8DA	238.0	3	60.68	17.87	8.12	470.55	949.11	95.70	8.78		MP3
CCI ANTENNAS DMP65R-BU8DA	238.0	3	60.68	17.87	8.12	470.55	949.11	95.70	8.78		MP4
DC6 SQUIDS	238.0	3	60.68	1.90	1.90	103.75	103.75	32.80	3.01		Leg/Flush
POWERWAVE TECHNOLOGIES TME-LGP21401	238.0	3	60.68	1.10	0.35	60.30	18.96	14.10	1.29		MP1
POWERWAVE TECHNOLOGIES TME-LGP21401	238.0	3	60.68	1.10	0.35	60.30	18.96	14.10	1.29		MP1
ERICSSON TME-RRUS 4478 B14	238.0	3	60.68	1.84	1.06	100.63	57.83	59.90	5.49		MP3
ERICSSON 4449 B5/B12	238.0	3	60.68	1.98	1.41	108.14	77.01	70.00	6.42		MP4
ERICSSON 8843 B2/B66A	238.0	3	60.68	1.98	1.70	108.14	92.57	75.00	6.88		MP4

**Dish calculations differ from those in display

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N16	N28			Bracing	None	None	A36 Gr.36	Typical
2	M2	N28	N15			Bracing	None	None	A36 Gr.36	Typical
3	M3	N14	N27			Bracing	None	None	A36 Gr.36	Typical
4	M4	N13	N26			Bracing	None	None	A36 Gr.36	Typical
5	M5	N12	N25			Bracing	None	None	A36 Gr.36	Typical
6	M6	N11	N24			Bracing	None	None	A36 Gr.36	Typical
7	M7	N10	N23			Bracing	None	None	A36 Gr.36	Typical
8	M8	N21	N8			Bracing	None	None	A36 Gr.36	Typical
9	M9	N20	N7			Bracing	None	None	A36 Gr.36	Typical
10	M10	N19	N6			Bracing	None	None	A36 Gr.36	Typical
11	M11	N18	N5			Bracing	None	None	A36 Gr.36	Typical
12	M12	N17	N4			Bracing	None	None	A36 Gr.36	Typical
13	M13	N16	N3			Bracing	None	None	A36 Gr.36	Typical
14	M14	N9	N29			Standoff	None	None	A53 Gr.B	Typical
15	M15	N29	N32			Standoff	None	None	A53 Gr.B	Typical
16	M16	N20	N37			Bracing	None	None	A36 Gr.36	Typical
17	M17	N37	N40			Bracing	None	None	A36 Gr.36	Typical
18	M18	N24	N40			Bracing	None	None	A36 Gr.36	Typical
19	M19	N23	N39			Bracing	None	None	A36 Gr.36	Typical
20	M20	N21	N38			Bracing	None	None	A36 Gr.36	Typical
21	M21	N35	N33			Bracing	None	None	A36 Gr.36	Typical
22	M22	N33	N34			Bracing	None	None	A36 Gr.36	Typical
23	M23	N34	N36			Bracing	None	None	A36 Gr.36	Typical
24	M24	N36	N35			Bracing	None	None	A36 Gr.36	Typical
25	M25	N49	N50			RIGID	None	None	RIGID	Typical
26	M26	N51	N52			RIGID	None	None	RIGID	Typical
27	M27	N57	N55			RIGID	None	None	RIGID	Typical
28	M28	N55	N56			RIGID	None	None	RIGID	Typical
29	M29	N54	N53			RIGID	None	None	RIGID	Typical
30	M30	N48	N47			RIGID	None	None	RIGID	Typical
31	M31	N73	N85			Bracing	None	None	A36 Gr.36	Typical
32	M32	N85	N72			Bracing	None	None	A36 Gr.36	Typical
33	M33	N71	N84			Bracing	None	None	A36 Gr.36	Typical
34	M34	N70	N83			Bracing	None	None	A36 Gr.36	Typical
35	M35	N69	N82			Bracing	None	None	A36 Gr.36	Typical
36	M36	N68	N81			Bracing	None	None	A36 Gr.36	Typical
37	M37	N67	N80			Bracing	None	None	A36 Gr.36	Typical
38	M38	N78	N65			Bracing	None	None	A36 Gr.36	Typical
39	M39	N77	N64			Bracing	None	None	A36 Gr.36	Typical
40	M40	N76	N63			Bracing	None	None	A36 Gr.36	Typical
41	M41	N75	N62			Bracing	None	None	A36 Gr.36	Typical
42	M42	N74	N61			Bracing	None	None	A36 Gr.36	Typical
43	M43	N73	N60			Bracing	None	None	A36 Gr.36	Typical
44	M44	N66	N86			Standoff	None	None	A53 Gr.B	Typical
45	M45	N86	N89			Standoff	None	None	A53 Gr.B	Typical
46	M46	N77	N94			Bracing	None	None	A36 Gr.36	Typical
47	M47	N94	N97			Bracing	None	None	A36 Gr.36	Typical
48	M48	N81	N97			Bracing	None	None	A36 Gr.36	Typical
49	M49	N80	N96			Bracing	None	None	A36 Gr.36	Typical
50	M50	N78	N95			Bracing	None	None	A36 Gr.36	Typical
51	M51	N92	N90			Bracing	None	None	A36 Gr.36	Typical
52	M52	N90	N91			Bracing	None	None	A36 Gr.36	Typical
53	M53	N91	N93			Bracing	None	None	A36 Gr.36	Typical
54	M54	N93	N92			Bracing	None	None	A36 Gr.36	Typical
55	M55	N58	N59			Main Horizontal	None	None	A53 Gr.B	Typical
56	M56	N103	N104			RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Rules
57	M57	N105	N106			RIGID	None	None	RIGID	Typical
58	M58	N111	N109			RIGID	None	None	RIGID	Typical
59	M59	N109	N110			RIGID	None	None	RIGID	Typical
60	M60	N108	N107			RIGID	None	None	RIGID	Typical
61	M61	N102	N101			RIGID	None	None	RIGID	Typical
62	M62	N127	N139			Bracing	None	None	A36 Gr.36	Typical
63	M63	N139	N126			Bracing	None	None	A36 Gr.36	Typical
64	M64	N125	N138			Bracing	None	None	A36 Gr.36	Typical
65	M65	N124	N137			Bracing	None	None	A36 Gr.36	Typical
66	M66	N123	N136			Bracing	None	None	A36 Gr.36	Typical
67	M67	N122	N135			Bracing	None	None	A36 Gr.36	Typical
68	M68	N121	N134			Bracing	None	None	A36 Gr.36	Typical
69	M69	N132	N119			Bracing	None	None	A36 Gr.36	Typical
70	M70	N131	N118			Bracing	None	None	A36 Gr.36	Typical
71	M71	N130	N117			Bracing	None	None	A36 Gr.36	Typical
72	M72	N129	N116			Bracing	None	None	A36 Gr.36	Typical
73	M73	N128	N115			Bracing	None	None	A36 Gr.36	Typical
74	M74	N127	N114			Bracing	None	None	A36 Gr.36	Typical
75	M75	N120	N140			Standoff	None	None	A53 Gr.B	Typical
76	M76	N140	N143			Standoff	None	None	A53 Gr.B	Typical
77	M77	N131	N151			Bracing	None	None	A36 Gr.36	Typical
78	M78	N151	N154			Bracing	None	None	A36 Gr.36	Typical
79	M79	N135	N154			Bracing	None	None	A36 Gr.36	Typical
80	M80	N134	N153			Bracing	None	None	A36 Gr.36	Typical
81	M81	N132	N152			Bracing	None	None	A36 Gr.36	Typical
82	M82	N147	N144			Bracing	None	None	A36 Gr.36	Typical
83	M83	N144	N145			Bracing	None	None	A36 Gr.36	Typical
84	M84	N145	N149			Bracing	None	None	A36 Gr.36	Typical
85	M85	N149	N147			Bracing	None	None	A36 Gr.36	Typical
86	M86	N112	N113			Main Horizontal	None	None	A53 Gr.B	Typical
87	M87	N185	N187			RIGID	None	None	RIGID	Typical
88	M88	N189	N191			RIGID	None	None	RIGID	Typical
89	M89	N198	N196			RIGID	None	None	RIGID	Typical
90	M90	N196	N197			RIGID	None	None	RIGID	Typical
91	M91	N195	N193			RIGID	None	None	RIGID	Typical
92	M92	N183	N181			RIGID	None	None	RIGID	Typical
93	M93	N157	N99			1/2" Plate	None	None	A36 Gr.36	Typical
94	M94	N98	N42			1/2" Plate	None	None	A36 Gr.36	Typical
95	M95	N161	N41			1/2" Plate	None	None	A36 Gr.36	Typical
96	M96	N1	N2			Main Horizontal	None	None	A53 Gr.B	Typical
97	MP1	N162	N158			Mount Pipe	None	None	A53 Gr.B	Typical
98	MP2	N45	N44			Mount Pipe	None	None	A53 Gr.B	Typical
99	MP3	N150	N148			Mod Mount Pipe	None	None	A53 Gr.B	Typical
100	MP4	N163	N159			Mod Mount Pipe	None	None	A53 Gr.B	Typical
101	MP5	N182	N180			Mount Pipe	None	None	A53 Gr.B	Typical
102	MP6	N178	N176			Mount Pipe	None	None	A53 Gr.B	Typical
103	MP7	N188	N186			Mod Mount Pipe	None	None	A53 Gr.B	Typical
104	MP8	N194	N192			Mod Mount Pipe	None	None	A53 Gr.B	Typical
105	MP9	N168	N167			Mount Pipe	None	None	A53 Gr.B	Typical
106	MP10	N165	N164			Mount Pipe	None	None	A53 Gr.B	Typical
107	MP11	N171	N170			Mod Mount Pipe	None	None	A53 Gr.B	Typical
108	MP12	N174	N173			Mod Mount Pipe	None	None	A53 Gr.B	Typical
109	M109	N205	N206			Handrail Kit	None	None	A53 Gr.B	Typical
110	M110	N207	N208			Handrail Kit	None	None	A53 Gr.B	Typical
111	M111	N203	N204			Handrail Kit	None	None	A53 Gr.B	Typical
112	M112	N221	N224			RIGID	None	None	RIGID	Typical
113	M113	N225	N223			RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Rules
114	M114	N222	N226			RIGID	None	None	RIGID	Typical

Material Takeoff

	Material	Size	Pieces	Length[in]	Weight[K]
1	General				
2	RIGID		21	118.3	0
3	Total General		21	118.3	0
4					
5	Hot Rolled Steel				
6	A36 Gr.36	BPL6x1/2	3	40.5	.034
7	A36 Gr.36	SR 3/4	66	1260	.158
8	A53 Gr.B	HSS5X5X4	6	142.9	.174
9	A53 Gr.B	PIPE 2.0	9	1170	.338
10	A53 Gr.B	PIPE 2.5	6	576	.263
11	A53 Gr.B	PIPE 4.0	3	594	.499
12	Total HR Steel		93	3783.4	1.466

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribut...	Area(M...	Surface...
1	Self Weight	DL		-1			33		6	
2	Wind Load AZI 0	WLZ					66			
3	Wind Load AZI 30	None					66			
4	Wind Load AZI 60	None					66			
5	Wind Load AZI 90	WLX					66			
6	Wind Load AZI 120	None					66			
7	Wind Load AZI 150	None					66			
8	Wind Load AZI 180	None					66			
9	Wind Load AZI 210	None					66			
10	Wind Load AZI 240	None					66			
11	Wind Load AZI 270	None					66			
12	Wind Load AZI 300	None					66			
13	Wind Load AZI 330	None					66			
14	Distr. Wind Load Z	WLZ						114		
15	Distr. Wind Load X	WLX						114		
16	Ice Weight	OL1					33	114	6	
17	Ice Wind Load AZI 0	OL2					66			
18	Ice Wind Load AZI 30	None					66			
19	Ice Wind Load AZI 60	None					66			
20	Ice Wind Load AZI 90	OL3					66			
21	Ice Wind Load AZI 120	None					66			
22	Ice Wind Load AZI 150	None					66			
23	Ice Wind Load AZI 180	None					66			
24	Ice Wind Load AZI 210	None					66			
25	Ice Wind Load AZI 240	None					66			
26	Ice Wind Load AZI 270	None					66			
27	Ice Wind Load AZI 300	None					66			
28	Ice Wind Load AZI 330	None					66			
29	Distr. Ice Wind Load Z	OL2						114		
30	Distr. Ice Wind Load X	OL3						114		
31	Seismic Load Z	ELZ			-.092		33			
32	Seismic Load X	ELX	-.092				33			
33	Service Live Loads	LL				1				
34	Maintenance Load 1	LL				1				
35	Maintenance Load 2	LL				1				

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribut..	Area(M...)	Surface...
36	Maintenance Load 3	LL				1				
37	Maintenance Load 4	LL				1				
38	Maintenance Load 5	LL				1				
39	Maintenance Load 6	LL				1				
40	Maintenance Load 7	LL				1				
41	Maintenance Load 8	LL				1				
42	Maintenance Load 9	LL				1				
43	Maintenance Load 10	LL				1				
44	Maintenance Load 11	LL				1				
45	Maintenance Load 12	LL				1				
46	BLC 1 Transient Area Loads	None							216	
47	BLC 16 Transient Area Loads	None							216	

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..	BLC Fac..	BLC Fac..	BLC Fac..	BLC Fac..	BLC Fac..	BLC Fac..	
1	1.4DL	Yes	Y	1	1.4																
2	1.2DL + 1WL AZI 0	Yes	Y	1	1.2	2	1	14	1	15											
3	1.2DL + 1WL AZI ...	Yes	Y	1	1.2	3	1	14	.866	15	.5										
4	1.2DL + 1WL AZI ...	Yes	Y	1	1.2	4	1	14	.5	15	.866										
5	1.2DL + 1WL AZI ...	Yes	Y	1	1.2	5	1	14		15	1										
6	1.2DL + 1WL AZI ...	Yes	Y	1	1.2	6	1	14	-.5	15	.866										
7	1.2DL + 1WL AZI ...	Yes	Y	1	1.2	7	1	14	-.866	15	.5										
8	1.2DL + 1WL AZI ...	Yes	Y	1	1.2	8	1	14	-1	15											
9	1.2DL + 1WL AZI ...	Yes	Y	1	1.2	9	1	14	-.866	15	-.5										
10	1.2DL + 1WL AZI ...	Yes	Y	1	1.2	10	1	14	-.5	15	-.866										
11	1.2DL + 1WL AZI ...	Yes	Y	1	1.2	11	1	14		15	-1										
12	1.2DL + 1WL AZI ...	Yes	Y	1	1.2	12	1	14	.5	15	-.866										
13	1.2DL + 1WL AZI ...	Yes	Y	1	1.2	13	1	14	.866	15	-.5										
14	0.9DL + 1WL AZI 0	Yes	Y	1	.9	2	1	14	1	15											
15	0.9DL + 1WL AZI ...	Yes	Y	1	.9	3	1	14	.866	15	.5										
16	0.9DL + 1WL AZI ...	Yes	Y	1	.9	4	1	14	.5	15	.866										
17	0.9DL + 1WL AZI ...	Yes	Y	1	.9	5	1	14		15	1										
18	0.9DL + 1WL AZI ...	Yes	Y	1	.9	6	1	14	-.5	15	.866										
19	0.9DL + 1WL AZI ...	Yes	Y	1	.9	7	1	14	-.866	15	.5										
20	0.9DL + 1WL AZI ...	Yes	Y	1	.9	8	1	14	-1	15											
21	0.9DL + 1WL AZI ...	Yes	Y	1	.9	9	1	14	-.866	15	-.5										
22	0.9DL + 1WL AZI ...	Yes	Y	1	.9	10	1	14	-.5	15	-.866										
23	0.9DL + 1WL AZI ...	Yes	Y	1	.9	11	1	14		15	-1										
24	0.9DL + 1WL AZI ...	Yes	Y	1	.9	12	1	14	.5	15	-.866										
25	0.9DL + 1WL AZI ...	Yes	Y	1	.9	13	1	14	.866	15	-.5										
26	1.2D + 1.0Di	Yes	Y	1	1.2	16	1														
27	1.2D + 1.0Di + 1.0...	Yes	Y	1	1.2	16	1	17	1	29	1	30									
28	1.2D + 1.0Di + 1.0...	Yes	Y	1	1.2	16	1	18	1	29	.866	30	.5								
29	1.2D + 1.0Di + 1.0...	Yes	Y	1	1.2	16	1	19	1	29	.5	30	.866								
30	1.2D + 1.0Di + 1.0...	Yes	Y	1	1.2	16	1	20	1	29		30	1								
31	1.2D + 1.0Di + 1.0...	Yes	Y	1	1.2	16	1	21	1	29	-.5	30	.866								
32	1.2D + 1.0Di + 1.0...	Yes	Y	1	1.2	16	1	22	1	29	-.866	30	.5								
33	1.2D + 1.0Di + 1.0...	Yes	Y	1	1.2	16	1	23	1	29	-1	30									
34	1.2D + 1.0Di + 1.0...	Yes	Y	1	1.2	16	1	24	1	29	-.866	30	-.5								
35	1.2D + 1.0Di + 1.0...	Yes	Y	1	1.2	16	1	25	1	29	-.5	30	-.866								
36	1.2D + 1.0Di + 1.0...	Yes	Y	1	1.2	16	1	26	1	29		30	-1								
37	1.2D + 1.0Di + 1.0...	Yes	Y	1	1.2	16	1	27	1	29	.5	30	-.866								
38	1.2D + 1.0Di + 1.0...	Yes	Y	1	1.2	16	1	28	1	29	.866	30	-.5								
39	(1.2 + 0.2Sds)DL ...	Yes	Y	1	1.237	31	1	32													
40	(1.2 + 0.2Sds)DL ...	Yes	Y	1	1.237	31	.866	32	.5												

Load Combinations (Continued)

Description	So...	P...	S...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...
41 (1.2 + 0.2Sds)DL ...	Yes	Y		1	1.237	31	.5	32	.866				
42 (1.2 + 0.2Sds)DL ...	Yes	Y		1	1.237	31		32	1				
43 (1.2 + 0.2Sds)DL ...	Yes	Y		1	1.237	31	-.5	32	.866				
44 (1.2 + 0.2Sds)DL ...	Yes	Y		1	1.237	31	-.866	32	.5				
45 (1.2 + 0.2Sds)DL ...	Yes	Y		1	1.237	31	-1	32					
46 (1.2 + 0.2Sds)DL ...	Yes	Y		1	1.237	31	-.866	32	-.5				
47 (1.2 + 0.2Sds)DL ...	Yes	Y		1	1.237	31	-.5	32	-.866				
48 (1.2 + 0.2Sds)DL ...	Yes	Y		1	1.237	31		32	-1				
49 (1.2 + 0.2Sds)DL ...	Yes	Y		1	1.237	31	.5	32	-.866				
50 (1.2 + 0.2Sds)DL ...	Yes	Y		1	1.237	31	.866	32	-.5				
51 (0.9 - 0.2Sds)DL ...	Yes	Y		1	.863	31	1	32					
52 (0.9 - 0.2Sds)DL ...	Yes	Y		1	.863	31	.866	32	.5				
53 (0.9 - 0.2Sds)DL ...	Yes	Y		1	.863	31	.5	32	.866				
54 (0.9 - 0.2Sds)DL ...	Yes	Y		1	.863	31		32	1				
55 (0.9 - 0.2Sds)DL ...	Yes	Y		1	.863	31	-.5	32	.866				
56 (0.9 - 0.2Sds)DL ...	Yes	Y		1	.863	31	-.866	32	.5				
57 (0.9 - 0.2Sds)DL ...	Yes	Y		1	.863	31	-1	32					
58 (0.9 - 0.2Sds)DL ...	Yes	Y		1	.863	31	-.866	32	-.5				
59 (0.9 - 0.2Sds)DL ...	Yes	Y		1	.863	31	-.5	32	-.866				
60 (0.9 - 0.2Sds)DL ...	Yes	Y		1	.863	31		32	-1				
61 (0.9 - 0.2Sds)DL ...	Yes	Y		1	.863	31	.5	32	-.866				
62 (0.9 - 0.2Sds)DL ...	Yes	Y		1	.863	31	.866	32	-.5				
63 1.0DL + 1.5LL + 1...	Yes	Y		1	1	2	.216	14	.216	15		33	1.5
64 1.0DL + 1.5LL + 1...	Yes	Y		1	1	3	.216	14	.187	15	.108	33	1.5
65 1.0DL + 1.5LL + 1...	Yes	Y		1	1	4	.216	14	.108	15	.187	33	1.5
66 1.0DL + 1.5LL + 1...	Yes	Y		1	1	5	.216	14		15	.216	33	1.5
67 1.0DL + 1.5LL + 1...	Yes	Y		1	1	6	.216	14	-.108	15	.187	33	1.5
68 1.0DL + 1.5LL + 1...	Yes	Y		1	1	7	.216	14	-.187	15	.108	33	1.5
69 1.0DL + 1.5LL + 1...	Yes	Y		1	1	8	.216	14	-.216	15		33	1.5
70 1.0DL + 1.5LL + 1...	Yes	Y		1	1	9	.216	14	-.187	15	-.108	33	1.5
71 1.0DL + 1.5LL + 1...	Yes	Y		1	1	10	.216	14	-.108	15	-.187	33	1.5
72 1.0DL + 1.5LL + 1...	Yes	Y		1	1	11	.216	14		15	-.216	33	1.5
73 1.0DL + 1.5LL + 1...	Yes	Y		1	1	12	.216	14	.108	15	-.187	33	1.5
74 1.0DL + 1.5LL + 1...	Yes	Y		1	1	13	.216	14	.187	15	-.108	33	1.5
75 1.2DL + 1.5LL	Yes	Y		1	1.2	33	1.5						
76 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	34	1.5	2	.054	14	.054	15	
77 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	34	1.5	3	.054	14	.047	15	.027
78 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	34	1.5	4	.054	14	.027	15	.047
79 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	34	1.5	5	.054	14		15	.054
80 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	34	1.5	6	.054	14	-.027	15	.047
81 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	34	1.5	7	.054	14	-.047	15	.027
82 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	34	1.5	8	.054	14	-.054	15	
83 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	34	1.5	9	.054	14	-.047	15	-.027
84 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	34	1.5	10	.054	14	-.027	15	-.047
85 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	34	1.5	11	.054	14		15	-.054
86 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	34	1.5	12	.054	14	.027	15	-.047
87 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	34	1.5	13	.054	14	.047	15	-.027
88 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	35	1.5	2	.054	14	.054	15	
89 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	35	1.5	3	.054	14	.047	15	.027
90 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	35	1.5	4	.054	14	.027	15	.047
91 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	35	1.5	5	.054	14		15	.054
92 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	35	1.5	6	.054	14	-.027	15	.047
93 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	35	1.5	7	.054	14	-.047	15	.027
94 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	35	1.5	8	.054	14	-.054	15	
95 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	35	1.5	9	.054	14	-.047	15	-.027
96 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	35	1.5	10	.054	14	-.027	15	-.047
97 1.2DL + 1.5LM-M...	Yes	Y		1	1.2	35	1.5	11	.054	14		15	-.054

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..
98	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	35	1.5	12	.054	14	.027	15	-.047
99	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	35	1.5	13	.054	14	.047	15	-.027
100	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	36	1.5	2	.054	14	.054	15	
101	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	36	1.5	3	.054	14	.047	15	.027
102	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	36	1.5	4	.054	14	.027	15	.047
103	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	36	1.5	5	.054	14		15	.054
104	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	36	1.5	6	.054	14	-.027	15	.047
105	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	36	1.5	7	.054	14	-.047	15	.027
106	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	36	1.5	8	.054	14	-.054	15	
107	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	36	1.5	9	.054	14	-.047	15	-.027
108	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	36	1.5	10	.054	14	-.027	15	-.047
109	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	36	1.5	11	.054	14		15	-.054
110	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	36	1.5	12	.054	14	.027	15	-.047
111	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	36	1.5	13	.054	14	.047	15	-.027
112	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	37	1.5	2	.054	14	.054	15	
113	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	37	1.5	3	.054	14	.047	15	.027
114	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	37	1.5	4	.054	14	.027	15	.047
115	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	37	1.5	5	.054	14		15	.054
116	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	37	1.5	6	.054	14	-.027	15	.047
117	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	37	1.5	7	.054	14	-.047	15	.027
118	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	37	1.5	8	.054	14	-.054	15	
119	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	37	1.5	9	.054	14	-.047	15	-.027
120	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	37	1.5	10	.054	14	-.027	15	-.047
121	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	37	1.5	11	.054	14		15	-.054
122	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	37	1.5	12	.054	14	.027	15	-.047
123	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	37	1.5	13	.054	14	.047	15	-.027
124	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	38	1.5	2	.054	14	.054	15	
125	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	38	1.5	3	.054	14	.047	15	.027
126	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	38	1.5	4	.054	14	.027	15	.047
127	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	38	1.5	5	.054	14		15	.054
128	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	38	1.5	6	.054	14	-.027	15	.047
129	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	38	1.5	7	.054	14	-.047	15	.027
130	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	38	1.5	8	.054	14	-.054	15	
131	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	38	1.5	9	.054	14	-.047	15	-.027
132	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	38	1.5	10	.054	14	-.027	15	-.047
133	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	38	1.5	11	.054	14		15	-.054
134	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	38	1.5	12	.054	14	.027	15	-.047
135	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	38	1.5	13	.054	14	.047	15	-.027
136	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	39	1.5	2	.054	14	.054	15	
137	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	39	1.5	3	.054	14	.047	15	.027
138	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	39	1.5	4	.054	14	.027	15	.047
139	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	39	1.5	5	.054	14		15	.054
140	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	39	1.5	6	.054	14	-.027	15	.047
141	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	39	1.5	7	.054	14	-.047	15	.027
142	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	39	1.5	8	.054	14	-.054	15	
143	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	39	1.5	9	.054	14	-.047	15	-.027
144	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	39	1.5	10	.054	14	-.027	15	-.047
145	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	39	1.5	11	.054	14		15	-.054
146	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	39	1.5	12	.054	14	.027	15	-.047
147	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	39	1.5	13	.054	14	.047	15	-.027
148	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	40	1.5	2	.054	14	.054	15	
149	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	40	1.5	3	.054	14	.047	15	.027
150	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	40	1.5	4	.054	14	.027	15	.047
151	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	40	1.5	5	.054	14		15	.054
152	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	40	1.5	6	.054	14	-.027	15	.047
153	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	40	1.5	7	.054	14	-.047	15	.027
154	1.2DL + 1.5LM-M...	Yes	Y		1	1.2	40	1.5	8	.054	14	-.054	15	

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...
155	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	40	1.5	9	.054	14	-.047	15	-.027	
156	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	40	1.5	10	.054	14	-.027	15	-.047	
157	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	40	1.5	11	.054	14		15	-.054	
158	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	40	1.5	12	.054	14	.027	15	-.047	
159	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	40	1.5	13	.054	14	.047	15	-.027	
160	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	41	1.5	2	.054	14	.054	15		
161	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	41	1.5	3	.054	14	.047	15	.027	
162	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	41	1.5	4	.054	14	.027	15	.047	
163	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	41	1.5	5	.054	14		15	.054	
164	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	41	1.5	6	.054	14	-.027	15	.047	
165	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	41	1.5	7	.054	14	-.047	15	.027	
166	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	41	1.5	8	.054	14	-.054	15		
167	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	41	1.5	9	.054	14	-.047	15	-.027	
168	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	41	1.5	10	.054	14	-.027	15	-.047	
169	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	41	1.5	11	.054	14		15	-.054	
170	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	41	1.5	12	.054	14	.027	15	-.047	
171	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	41	1.5	13	.054	14	.047	15	-.027	
172	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	42	1.5	2	.054	14	.054	15		
173	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	42	1.5	3	.054	14	.047	15	.027	
174	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	42	1.5	4	.054	14	.027	15	.047	
175	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	42	1.5	5	.054	14		15	.054	
176	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	42	1.5	6	.054	14	-.027	15	.047	
177	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	42	1.5	7	.054	14	-.047	15	.027	
178	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	42	1.5	8	.054	14	-.054	15		
179	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	42	1.5	9	.054	14	-.047	15	-.027	
180	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	42	1.5	10	.054	14	-.027	15	-.047	
181	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	42	1.5	11	.054	14		15	-.054	
182	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	42	1.5	12	.054	14	.027	15	-.047	
183	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	42	1.5	13	.054	14	.047	15	-.027	
184	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	43	1.5	2	.054	14	.054	15		
185	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	43	1.5	3	.054	14	.047	15	.027	
186	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	43	1.5	4	.054	14	.027	15	.047	
187	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	43	1.5	5	.054	14		15	.054	
188	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	43	1.5	6	.054	14	-.027	15	.047	
189	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	43	1.5	7	.054	14	-.047	15	.027	
190	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	43	1.5	8	.054	14	-.054	15		
191	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	43	1.5	9	.054	14	-.047	15	-.027	
192	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	43	1.5	10	.054	14	-.027	15	-.047	
193	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	43	1.5	11	.054	14		15	-.054	
194	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	43	1.5	12	.054	14	.027	15	-.047	
195	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	43	1.5	13	.054	14	.047	15	-.027	
196	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	44	1.5	2	.054	14	.054	15		
197	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	44	1.5	3	.054	14	.047	15	.027	
198	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	44	1.5	4	.054	14	.027	15	.047	
199	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	44	1.5	5	.054	14		15	.054	
200	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	44	1.5	6	.054	14	-.027	15	.047	
201	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	44	1.5	7	.054	14	-.047	15	.027	
202	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	44	1.5	8	.054	14	-.054	15		
203	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	44	1.5	9	.054	14	-.047	15	-.027	
204	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	44	1.5	10	.054	14	-.027	15	-.047	
205	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	44	1.5	11	.054	14		15	-.054	
206	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	44	1.5	12	.054	14	.027	15	-.047	
207	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	44	1.5	13	.054	14	.047	15	-.027	
208	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	45	1.5	2	.054	14	.054	15		
209	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	45	1.5	3	.054	14	.047	15	.027	
210	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	45	1.5	4	.054	14	.027	15	.047	
211	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	45	1.5	5	.054	14		15	.054	

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...
212	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	45	1.5	6	.054	14	-.027	15	.047
213	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	45	1.5	7	.054	14	-.047	15	.027
214	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	45	1.5	8	.054	14	-.054	15	
215	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	45	1.5	9	.054	14	-.047	15	-.027
216	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	45	1.5	10	.054	14	-.027	15	-.047
217	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	45	1.5	11	.054	14		15	-.054
218	1.2DL + 1.5LM-M...	Yes	Y	1	1.2	45	1.5	12	.054	14	.027	15	-.047

Envelope Joint Reactions

Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC		
1	N32	max	4294.266	17	3744.207	33	1836.104	2	.506	14	11.254	4	1.07	217
2		min	-4300.557	11	391.74	14	-1736.307	20	-12.212	33	-11.21	10	-1.395	66
3	N89	max	2647.717	4	3703.145	37	4426.693	14	5.833	38	12.502	8	10.625	37
4		min	-2569.3	22	390.84	18	-4475.998	8	-.262	19	-12.454	2	-.394	18
5	N143	max	3090.402	18	3733.659	29	4074.285	25	6.34	28	12.533	12	.264	22
6		min	-3172.303	12	423.264	22	-4121.354	7	-.394	21	-12.482	6	-10.369	29
7	Totals:	max	9462.621	17	10864.599	35	9772.342	14						
8		min	-9462.621	11	3080.271	53	-9772.342	8						

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

Member	Shape	Code Ch...	Loc[in]	LC	Shear C...	Loc.....	LC	phi*Pn...	phi*Pn...	phi*M...	phi*M.....	Eqn	
1	M76	HSS5X5X4	.940	23.25	6	.185	23.... z	13	13444...	135450	19.976	19.976	H1-1b
2	M45	HSS5X5X4	.939	23.25	2	.181	23.... z	9	13444...	135450	19.976	19.976	H1-1b
3	M15	HSS5X5X4	.879	23.25	10	.173	23.... z	5	13444...	135450	19.976	19.976	H1-1b
4	M33	SR 3/4	.797	0	8	.088	6	2	13562...	14313...	.179	.179	H1-1b
5	M64	SR 3/4	.781	0	12	.086	6	6	13562...	14313...	.179	.179	H1-1b
6	M34	SR 3/4	.740	0	8	.074	6	2	13562...	14313...	.179	.179	H1-1b
7	M3	SR 3/4	.732	0	4	.084	6	10	13562...	14313...	.179	.179	H1-1b
8	M73	SR 3/4	.731	6	7	.082	0	7	13562...	14313...	.179	.179	H1-1b
9	M65	SR 3/4	.728	0	12	.072	6	6	13562...	14313...	.179	.179	H1-1b
10	M32	SR 3/4	.710	6	2	.068	0	2	13562...	14313...	.179	.179	H1-1b
11	M42	SR 3/4	.698	6	3	.078	0	3	13562...	14313...	.179	.179	H1-1b
12	M63	SR 3/4	.694	6	6	.066	0	6	13562...	14313...	.179	.179	H1-1b
13	M35	SR 3/4	.687	0	8	.084	6	2	13562...	14313...	.179	.179	H1-1b
14	M4	SR 3/4	.686	0	4	.070	6	4	13562...	14313...	.179	.179	H1-1b
15	M66	SR 3/4	.682	0	12	.085	6	6	13562...	14313...	.179	.179	H1-1b
16	M12	SR 3/4	.670	6	11	.076	0	11	13562...	14313...	.179	.179	H1-1b
17	M74	SR 3/4	.662	6	13	.061	0	13	13562...	14313...	.179	.179	H1-1b
18	MP11	PIPE 2.5	.659	41	2	.124	41	13	30038...	50715	3.596	3.596	H1-1b
19	M72	SR 3/4	.658	6	7	.065	0	7	13562...	14313...	.179	.179	H1-1b
20	MP7	PIPE 2.5	.655	41	6	.123	41	5	30038...	50715	3.596	3.596	H1-1b
21	M2	SR 3/4	.649	6	10	.064	0	10	13562...	14313...	.179	.179	H1-1b
22	M5	SR 3/4	.645	0	4	.081	6	10	13562...	14313...	.179	.179	H1-1b
23	M71	SR 3/4	.641	6	8	.079	0	8	13562...	14313...	.179	.179	H1-1b
24	MP3	PIPE 2.5	.641	41	10	.127	41	9	30038...	50715	3.596	3.596	H1-1b
25	M43	SR 3/4	.637	6	8	.058	0	9	13562...	14313...	.179	.179	H1-1b
26	M41	SR 3/4	.631	6	3	.064	0	3	13562...	14313...	.179	.179	H1-1b
27	M10	SR 3/4	.624	6	12	.073	0	12	13562...	14313...	.179	.179	H1-1b
28	M40	SR 3/4	.621	6	4	.072	0	4	13562...	14313...	.179	.179	H1-1b
29	M13	SR 3/4	.608	6	5	.056	0	5	13562...	14313...	.179	.179	H1-1b
30	M11	SR 3/4	.605	6	11	.060	0	11	13562...	14313...	.179	.179	H1-1b
31	M70	SR 3/4	.599	6	33	.070	0	9	13562...	14313...	.179	.179	H1-1b
32	M6	SR 3/4	.594	0	29	.065	6	3	13562...	14313...	.179	.179	H1-1b
33	M67	SR 3/4	.593	0	37	.065	6	11	13562...	14313...	.179	.179	H1-1b

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

Member	Shape	Code Ch...	Loc[in]	LC	Shear C...	Loc.....	LC	phi*Pn...	phi*Pn...	phi*M...	phi*M...	Eqn	
91	M24	SR 3/4	.059	0	32	.009	0	217	9048....	14313...	.179	.179	... H1-1b
92	M54	SR 3/4	.058	0	36	.009	0	161	9048....	14313...	.179	.179	... H1-1b
93	M52	SR 3/4	.058	17.5	38	.013	17.5	34	9048....	14313...	.179	.179	... H1-1b

Hot Rolled Steel Section Sets

Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Handrail Kit	PIPE 2.0	None	A53 Gr.B	Typical	1.02	.627	.627	1.25
2	Main Horizontal	PIPE 4.0	None	A53 Gr.B	Typical	2.96	6.82	6.82	13.6
3	Mount Pipe	PIPE 2.0	None	A53 Gr.B	Typical	1.02	.627	.627	1.25
4	Standoff	HSS5X5X4	None	A53 Gr.B	Typical	4.3	16	16	25.8
5	Bracing	SR 3/4	None	A36 Gr.36	Typical	.442	.016	.016	.031
6	1/2" Plate	BPL6x1/2	None	A36 Gr.36	Typical	3	.063	9	.237
7	Mod Mount Pi...	PIPE 2.5	None	A53 Gr.B	Typical	1.61	1.45	1.45	2.89

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	** NA **			None
2	M2					Yes	** NA **			None
3	M3					Yes	** NA **			None
4	M4					Yes	** NA **			None
5	M5					Yes	** NA **			None
6	M6					Yes	** NA **			None
7	M7					Yes	** NA **			None
8	M8					Yes	** NA **			None
9	M9					Yes	** NA **			None
10	M10					Yes	** NA **			None
11	M11					Yes	** NA **			None
12	M12					Yes	** NA **			None
13	M13					Yes	** NA **			None
14	M14					Yes	** NA **			None
15	M15					Yes	** NA **			None
16	M16					Yes	** NA **			None
17	M17					Yes	** NA **			None
18	M18					Yes	** NA **			None
19	M19					Yes	** NA **			None
20	M20					Yes	** NA **			None
21	M21					Yes	** NA **			None
22	M22					Yes	** NA **			None
23	M23					Yes	** NA **			None
24	M24					Yes	** NA **			None
25	M25					Yes	** NA **			None
26	M26					Yes	** NA **			None
27	M27					Yes	** NA **			None
28	M28					Yes	** NA **			None
29	M29					Yes	** NA **			None
30	M30					Yes	** NA **			None
31	M31					Yes	** NA **			None
32	M32					Yes	** NA **			None
33	M33					Yes	** NA **			None
34	M34					Yes	** NA **			None
35	M35					Yes	** NA **			None
36	M36					Yes	** NA **			None
37	M37					Yes	** NA **			None
38	M38					Yes	** NA **			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...
39	M39						Yes	** NA **			None
40	M40						Yes	** NA **			None
41	M41						Yes	** NA **			None
42	M42						Yes	** NA **			None
43	M43						Yes	** NA **			None
44	M44						Yes	** NA **			None
45	M45						Yes	** NA **			None
46	M46						Yes	** NA **			None
47	M47						Yes	** NA **			None
48	M48						Yes	** NA **			None
49	M49						Yes	** NA **			None
50	M50						Yes	** NA **			None
51	M51						Yes	** NA **			None
52	M52						Yes	** NA **			None
53	M53						Yes	** NA **			None
54	M54						Yes	** NA **			None
55	M55						Yes	** NA **			None
56	M56						Yes	** NA **			None
57	M57						Yes	** NA **			None
58	M58						Yes	** NA **			None
59	M59						Yes	** NA **			None
60	M60						Yes	** NA **			None
61	M61						Yes	** NA **			None
62	M62						Yes	** NA **			None
63	M63						Yes	** NA **			None
64	M64						Yes	** NA **			None
65	M65						Yes	** NA **			None
66	M66						Yes	** NA **			None
67	M67						Yes	** NA **			None
68	M68						Yes	** NA **			None
69	M69						Yes	** NA **			None
70	M70						Yes	** NA **			None
71	M71						Yes	** NA **			None
72	M72						Yes	** NA **			None
73	M73						Yes	** NA **			None
74	M74						Yes	** NA **			None
75	M75						Yes	** NA **			None
76	M76						Yes	** NA **			None
77	M77						Yes	** NA **			None
78	M78						Yes	** NA **			None
79	M79						Yes	** NA **			None
80	M80						Yes	** NA **			None
81	M81						Yes	** NA **			None
82	M82						Yes	** NA **			None
83	M83						Yes	** NA **			None
84	M84						Yes	** NA **			None
85	M85						Yes	** NA **			None
86	M86						Yes	** NA **			None
87	M87						Yes	** NA **			None
88	M88						Yes	** NA **			None
89	M89						Yes	** NA **			None
90	M90						Yes	** NA **			None
91	M91						Yes	** NA **			None
92	M92						Yes	** NA **			None
93	M93						Yes	** NA **			None
94	M94						Yes	** NA **			None
95	M95						Yes	** NA **			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...
96	M96						Yes	** NA **			None
97	MP1						Yes	** NA **			None
98	MP2						Yes	** NA **			None
99	MP3						Yes	** NA **			None
100	MP4						Yes	** NA **			None
101	MP5						Yes	** NA **			None
102	MP6						Yes	** NA **			None
103	MP7						Yes	** NA **			None
104	MP8						Yes	** NA **			None
105	MP9						Yes	** NA **			None
106	MP10						Yes	** NA **			None
107	MP11						Yes	** NA **			None
108	MP12						Yes	** NA **			None
109	M109						Yes	** NA **			None
110	M110						Yes	** NA **			None
111	M111						Yes	** NA **			None
112	M112						Yes	** NA **			None
113	M113						Yes	** NA **			None
114	M114						Yes	** NA **			None

Hot Rolled Steel Design Parameters

	Label	Shape	Length[...]	Lbyy[in]	Lbzz[in]	Lcomp top[...]	Lcomp bot[...]	L-torque[...]	Kyy	Kzz	Cb	Funci...
1	M1	Bracing	171	16.5	16.5	16.5	16.5					Lateral
2	M2	Bracing	6			Lbyy						Lateral
3	M3	Bracing	6			Lbyy						Lateral
4	M4	Bracing	6			Lbyy						Lateral
5	M5	Bracing	6			Lbyy						Lateral
6	M6	Bracing	6			Lbyy						Lateral
7	M7	Bracing	6			Lbyy						Lateral
8	M8	Bracing	6			Lbyy						Lateral
9	M9	Bracing	6			Lbyy						Lateral
10	M10	Bracing	6			Lbyy						Lateral
11	M11	Bracing	6			Lbyy						Lateral
12	M12	Bracing	6			Lbyy						Lateral
13	M13	Bracing	6			Lbyy						Lateral
14	M14	Standoff	24.375			Lbyy						Lateral
15	M15	Standoff	23.25			Lbyy						Lateral
16	M16	Bracing	13			Lbyy						Lateral
17	M17	Bracing	66			Lbyy						Lateral
18	M18	Bracing	13			Lbyy						Lateral
19	M19	Bracing	13			Lbyy						Lateral
20	M20	Bracing	13			Lbyy						Lateral
21	M21	Bracing	12			Lbyy						Lateral
22	M22	Bracing	17.5			Lbyy						Lateral
23	M23	Bracing	12			Lbyy						Lateral
24	M24	Bracing	17.5			Lbyy						Lateral
25	M31	Bracing	171	16.5	16.5	16.5	16.5					Lateral
26	M32	Bracing	6			Lbyy						Lateral
27	M33	Bracing	6			Lbyy						Lateral
28	M34	Bracing	6			Lbyy						Lateral
29	M35	Bracing	6			Lbyy						Lateral
30	M36	Bracing	6			Lbyy						Lateral
31	M37	Bracing	6			Lbyy						Lateral
32	M38	Bracing	6			Lbyy						Lateral
33	M39	Bracing	6			Lbyy						Lateral

Hot Rolled Steel Design Parameters (Continued)

Label	Shape	Length[ft]	Lbyy[in]	Lbzz[in]	Lcomp top[ft]	Lcomp bot[ft]	L-torque[ft]	Kyy	Kzz	Cb	Function
34	M40	Bracing	6				Lbyy				Lateral
35	M41	Bracing	6				Lbyy				Lateral
36	M42	Bracing	6				Lbyy				Lateral
37	M43	Bracing	6				Lbyy				Lateral
38	M44	Standoff	24.375				Lbyy				Lateral
39	M45	Standoff	23.25				Lbyy				Lateral
40	M46	Bracing	13				Lbyy				Lateral
41	M47	Bracing	66				Lbyy				Lateral
42	M48	Bracing	13				Lbyy				Lateral
43	M49	Bracing	13				Lbyy				Lateral
44	M50	Bracing	13				Lbyy				Lateral
45	M51	Bracing	12				Lbyy				Lateral
46	M52	Bracing	17.5				Lbyy				Lateral
47	M53	Bracing	12				Lbyy				Lateral
48	M54	Bracing	17.5				Lbyy				Lateral
49	M55	Main Horizontal	198				Lbyy				Lateral
50	M62	Bracing	171	16.5	16.5	16.5	16.5				Lateral
51	M63	Bracing	6				Lbyy				Lateral
52	M64	Bracing	6				Lbyy				Lateral
53	M65	Bracing	6				Lbyy				Lateral
54	M66	Bracing	6				Lbyy				Lateral
55	M67	Bracing	6				Lbyy				Lateral
56	M68	Bracing	6				Lbyy				Lateral
57	M69	Bracing	6				Lbyy				Lateral
58	M70	Bracing	6				Lbyy				Lateral
59	M71	Bracing	6				Lbyy				Lateral
60	M72	Bracing	6				Lbyy				Lateral
61	M73	Bracing	6				Lbyy				Lateral
62	M74	Bracing	6				Lbyy				Lateral
63	M75	Standoff	24.375				Lbyy				Lateral
64	M76	Standoff	23.25				Lbyy				Lateral
65	M77	Bracing	13				Lbyy				Lateral
66	M78	Bracing	66				Lbyy				Lateral
67	M79	Bracing	13				Lbyy				Lateral
68	M80	Bracing	13				Lbyy				Lateral
69	M81	Bracing	13				Lbyy				Lateral
70	M82	Bracing	12				Lbyy				Lateral
71	M83	Bracing	17.5				Lbyy				Lateral
72	M84	Bracing	12				Lbyy				Lateral
73	M85	Bracing	17.5				Lbyy				Lateral
74	M86	Main Horizontal	198				Lbyy				Lateral
75	M93	1/2" Plate	13.508				Lbyy				Lateral
76	M94	1/2" Plate	13.508				Lbyy				Lateral
77	M95	1/2" Plate	13.508				Lbyy				Lateral
78	M96	Main Horizontal	198				Lbyy				Lateral
79	MP1	Mount Pipe	96				Lbyy				Lateral
80	MP2	Mount Pipe	96				Lbyy				Lateral
81	MP3	Mod Mount Pipe	96				Lbyy				Lateral
82	MP4	Mod Mount Pipe	96				Lbyy				Lateral
83	MP5	Mount Pipe	96				Lbyy				Lateral
84	MP6	Mount Pipe	96				Lbyy				Lateral
85	MP7	Mod Mount Pipe	96				Lbyy				Lateral
86	MP8	Mod Mount Pipe	96				Lbyy				Lateral
87	MP9	Mount Pipe	96				Lbyy				Lateral
88	MP10	Mount Pipe	96				Lbyy				Lateral
89	MP11	Mod Mount Pipe	96				Lbyy				Lateral
90	MP12	Mod Mount Pipe	96				Lbyy				Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[in]	Lbyy[in]	Lbzz[in]	Lcomp top[...]	Lcomp bot[...]	L-torque[...]	Kyy	Kzz	Cb	Funci...
91	M109	Handrail Kit	198			Lbyy						Lateral
92	M110	Handrail Kit	198			Lbyy						Lateral
93	M111	Handrail Kit	198			Lbyy						Lateral

Joint Loads and Enforced Displacements (BLC 33 : Service Live Loads)

	Joint Label	L,D,M	Direction	Magnitude[(lb,k-ft), (in,rad), (lb*s^2...
1	N156	L	Y	-500

Joint Loads and Enforced Displacements (BLC 34 : Maintenance Load 1)

	Joint Label	L,D,M	Direction	Magnitude[(lb,k-ft), (in,rad), (lb*s^2...
1	N155	L	Y	-500

Joint Loads and Enforced Displacements (BLC 35 : Maintenance Load 2)

	Joint Label	L,D,M	Direction	Magnitude[(lb,k-ft), (in,rad), (lb*s^2...
1	N43	L	Y	-500

Joint Loads and Enforced Displacements (BLC 36 : Maintenance Load 3)

	Joint Label	L,D,M	Direction	Magnitude[(lb,k-ft), (in,rad), (lb*s^2...
1	N146	L	Y	-500

Joint Loads and Enforced Displacements (BLC 37 : Maintenance Load 4)

	Joint Label	L,D,M	Direction	Magnitude[(lb,k-ft), (in,rad), (lb*s^2...
1	N156	L	Y	-500

Joint Loads and Enforced Displacements (BLC 38 : Maintenance Load 5)

	Joint Label	L,D,M	Direction	Magnitude[(lb,k-ft), (in,rad), (lb*s^2...
1	N179	L	Y	-500

Joint Loads and Enforced Displacements (BLC 39 : Maintenance Load 6)

	Joint Label	L,D,M	Direction	Magnitude[(lb,k-ft), (in,rad), (lb*s^2...
1	N175	L	Y	-500

Joint Loads and Enforced Displacements (BLC 40 : Maintenance Load 7)

	Joint Label	L,D,M	Direction	Magnitude[(lb,k-ft), (in,rad), (lb*s^2...
1	N184	L	Y	-500

Joint Loads and Enforced Displacements (BLC 41 : Maintenance Load 8)

	Joint Label	L,D,M	Direction	Magnitude[(lb,k-ft), (in,rad), (lb*s^2...
1	N190	L	Y	-500

Joint Loads and Enforced Displacements (BLC 42 : Maintenance Load 9)

	Joint Label	L,D,M	Direction	Magnitude[(lb,k-ft), (in,rad), (lb*s^2...
1	N166	L	Y	-500

Joint Loads and Enforced Displacements (BLC 43 : Maintenance Load 10)

	Joint Label	L,D,M	Direction	Magnitude[(lb,k-ft), (in,rad), (lb*s^2...
1	N160	L	Y	-500

Joint Loads and Enforced Displacements (BLC 44 : Maintenance Load 11)

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

Joint Loads and Enforced Displacements (BLC 44 : Maintenance Load 11) (Continued)

	Joint Label	L,D,M	Direction	Magnitude[(lb,k-ft), (in,rad), (lb*s^2...]
1	N169	L	Y	-500

Joint Loads and Enforced Displacements (BLC 45 : Maintenance Load 12)

	Joint Label	L,D,M	Direction	Magnitude[(lb,k-ft), (in,rad), (lb*s^2...]
1	N172	L	Y	-500

Member Point Loads (BLC 1 : Self Weight)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1	Y	-17.5	47
2	MP1	Y	-17.5	90
3	MP3	Y	-47.85	6
4	MP3	Y	-47.85	90
5	MP4	Y	-47.85	6
6	MP4	Y	-47.85	90
7	MP1	Y	-14.1	60
8	MP1	Y	-14.1	60
9	MP3	Y	-59.9	60
10	MP4	Y	-70	60
11	MP4	Y	-75	60
12	MP5	Y	-17.5	47
13	MP5	Y	-17.5	90
14	MP7	Y	-47.85	6
15	MP7	Y	-47.85	90
16	MP8	Y	-47.85	6
17	MP8	Y	-47.85	90
18	MP5	Y	-14.1	60
19	MP5	Y	-14.1	60
20	MP7	Y	-59.9	60
21	MP8	Y	-70	60
22	MP8	Y	-75	60
23	MP9	Y	-17.5	47
24	MP9	Y	-17.5	90
25	MP11	Y	-47.85	6
26	MP11	Y	-47.85	90
27	MP12	Y	-47.85	6
28	MP12	Y	-47.85	90
29	MP9	Y	-14.1	60
30	MP9	Y	-14.1	60
31	MP11	Y	-59.9	60
32	MP12	Y	-70	60
33	MP12	Y	-75	60

Member Point Loads (BLC 2 : Wind Load AZI 0)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1	X	0	47
2	MP1	Z	-150.43	47
3	MP1	X	0	90
4	MP1	Z	-150.43	90
5	MP3	X	0	6
6	MP3	Z	-235.28	6
7	MP3	X	0	90
8	MP3	Z	-235.28	90
9	MP4	X	0	6
10	MP4	Z	-235.28	6

Member Point Loads (BLC 2 : Wind Load AZI 0) (Continued)

Member Label	Direction	Magnitude[lb,k-ft]	Location[in, %]	
11	MP4	X	0	90
12	MP4	Z	-235.28	90
13	MP1	X	0	60
14	MP1	Z	-60.3	60
15	MP1	X	0	60
16	MP1	Z	-60.3	60
17	MP3	X	0	60
18	MP3	Z	-100.63	60
19	MP4	X	0	60
20	MP4	Z	-108.14	60
21	MP4	X	0	60
22	MP4	Z	-108.14	60
23	MP5	X	0	47
24	MP5	Z	-97.58	47
25	MP5	X	0	90
26	MP5	Z	-97.58	90
27	MP7	X	0	6
28	MP7	Z	-364.2	6
29	MP7	X	0	90
30	MP7	Z	-364.2	90
31	MP8	X	0	6
32	MP8	Z	-364.2	6
33	MP8	X	0	90
34	MP8	Z	-364.2	90
35	MP5	X	0	60
36	MP5	Z	-29.29	60
37	MP5	X	0	60
38	MP5	Z	-29.29	60
39	MP7	X	0	60
40	MP7	Z	-68.53	60
41	MP8	X	0	60
42	MP8	Z	-84.79	60
43	MP8	X	0	60
44	MP8	Z	-96.47	60
45	MP9	X	0	47
46	MP9	Z	-97.58	47
47	MP9	X	0	90
48	MP9	Z	-97.58	90
49	MP11	X	0	6
50	MP11	Z	-484.07	6
51	MP11	X	0	90
52	MP11	Z	-484.07	90
53	MP12	X	0	6
54	MP12	Z	-484.07	6
55	MP12	X	0	90
56	MP12	Z	-484.07	90
57	MP9	X	0	60
58	MP9	Z	-29.29	60
59	MP9	X	0	60
60	MP9	Z	-29.29	60
61	MP11	X	0	60
62	MP11	Z	-68.53	60
63	MP12	X	0	60
64	MP12	Z	-84.79	60
65	MP12	X	0	60
66	MP12	Z	-96.47	60

Member Point Loads (BLC 3 : Wind Load AZI 30)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
1	MP1	X	-66.41	47
2	MP1	Z	-115.02	47
3	MP1	X	-66.41	90
4	MP1	Z	-115.02	90
5	MP3	X	-172.82	6
6	MP3	Z	-299.32	6
7	MP3	X	-172.82	90
8	MP3	Z	-299.32	90
9	MP4	X	-172.82	6
10	MP4	Z	-299.32	6
11	MP4	X	-172.82	90
12	MP4	Z	-299.32	90
13	MP1	X	-24.98	60
14	MP1	Z	-43.27	60
15	MP1	X	-24.98	60
16	MP1	Z	-43.27	60
17	MP3	X	-44.96	60
18	MP3	Z	-77.88	60
19	MP4	X	-50.18	60
20	MP4	Z	-86.91	60
21	MP4	X	-52.12	60
22	MP4	Z	-90.28	60
23	MP5	X	-66.41	47
24	MP5	Z	-115.02	47
25	MP5	X	-66.41	90
26	MP5	Z	-115.02	90
27	MP7	X	-122.28	6
28	MP7	Z	-211.8	6
29	MP7	X	-122.28	90
30	MP7	Z	-211.8	90
31	MP8	X	-122.28	6
32	MP8	Z	-211.8	6
33	MP8	X	-122.28	90
34	MP8	Z	-211.8	90
35	MP5	X	-24.98	60
36	MP5	Z	-43.27	60
37	MP5	X	-24.98	60
38	MP5	Z	-43.27	60
39	MP7	X	-44.96	60
40	MP7	Z	-77.88	60
41	MP8	X	-50.18	60
42	MP8	Z	-86.91	60
43	MP8	X	-52.12	60
44	MP8	Z	-90.28	60
45	MP9	X	-39.98	47
46	MP9	Z	-69.25	47
47	MP9	X	-39.98	90
48	MP9	Z	-69.25	90
49	MP11	X	-223.69	6
50	MP11	Z	-387.45	6
51	MP11	X	-223.69	90
52	MP11	Z	-387.45	90
53	MP12	X	-223.69	6
54	MP12	Z	-387.45	6
55	MP12	X	-223.69	90
56	MP12	Z	-387.45	90
57	MP9	X	-9.48	60

Member Point Loads (BLC 3 : Wind Load AZI 30) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
58	MP9	Z	-16.42	60
59	MP9	X	-9.48	60
60	MP9	Z	-16.42	60
61	MP11	X	-28.91	60
62	MP11	Z	-50.08	60
63	MP12	X	-38.5	60
64	MP12	Z	-66.69	60
65	MP12	X	-46.29	60
66	MP12	Z	-80.17	60

Member Point Loads (BLC 4 : Wind Load AZI 60)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
1	MP1	X	-84.51	47
2	MP1	Z	-48.79	47
3	MP1	X	-84.51	90
4	MP1	Z	-48.79	90
5	MP3	X	-402.94	6
6	MP3	Z	-232.64	6
7	MP3	X	-402.94	90
8	MP3	Z	-232.64	90
9	MP4	X	-402.94	6
10	MP4	Z	-232.64	6
11	MP4	X	-402.94	90
12	MP4	Z	-232.64	90
13	MP1	X	-25.37	60
14	MP1	Z	-14.65	60
15	MP1	X	-25.37	60
16	MP1	Z	-14.65	60
17	MP3	X	-59.35	60
18	MP3	Z	-34.26	60
19	MP4	X	-73.43	60
20	MP4	Z	-42.4	60
21	MP4	X	-83.54	60
22	MP4	Z	-48.23	60
23	MP5	X	-130.27	47
24	MP5	Z	-75.21	47
25	MP5	X	-130.27	90
26	MP5	Z	-75.21	90
27	MP7	X	-203.75	6
28	MP7	Z	-117.64	6
29	MP7	X	-203.75	90
30	MP7	Z	-117.64	90
31	MP8	X	-203.75	6
32	MP8	Z	-117.64	6
33	MP8	X	-203.75	90
34	MP8	Z	-117.64	90
35	MP5	X	-52.22	60
36	MP5	Z	-30.15	60
37	MP5	X	-52.22	60
38	MP5	Z	-30.15	60
39	MP7	X	-87.15	60
40	MP7	Z	-50.32	60
41	MP8	X	-93.65	60
42	MP8	Z	-54.07	60
43	MP8	X	-93.65	60
44	MP8	Z	-54.07	60

Member Point Loads (BLC 4 : Wind Load AZI 60) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
45	MP9	X	-84.51	47
46	MP9	Z	-48.79	47
47	MP9	X	-84.51	90
48	MP9	Z	-48.79	90
49	MP11	X	-275.59	6
50	MP11	Z	-159.11	6
51	MP11	X	-275.59	90
52	MP11	Z	-159.11	90
53	MP12	X	-275.59	6
54	MP12	Z	-159.11	6
55	MP12	X	-275.59	90
56	MP12	Z	-159.11	90
57	MP9	X	-25.37	60
58	MP9	Z	-14.65	60
59	MP9	X	-25.37	60
60	MP9	Z	-14.65	60
61	MP11	X	-59.35	60
62	MP11	Z	-34.26	60
63	MP12	X	-73.43	60
64	MP12	Z	-42.4	60
65	MP12	X	-83.54	60
66	MP12	Z	-48.23	60

Member Point Loads (BLC 5 : Wind Load AZI 90)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1	X	-79.97	47
2	MP1	Z	0	47
3	MP1	X	-79.97	90
4	MP1	Z	0	90
5	MP3	X	-474.56	6
6	MP3	Z	0	6
7	MP3	X	-474.56	90
8	MP3	Z	0	90
9	MP4	X	-474.56	6
10	MP4	Z	0	6
11	MP4	X	-474.56	90
12	MP4	Z	0	90
13	MP1	X	-18.96	60
14	MP1	Z	0	60
15	MP1	X	-18.96	60
16	MP1	Z	0	60
17	MP3	X	-57.83	60
18	MP3	Z	0	60
19	MP4	X	-77.01	60
20	MP4	Z	0	60
21	MP4	X	-92.57	60
22	MP4	Z	0	60
23	MP5	X	-132.81	47
24	MP5	Z	0	47
25	MP5	X	-132.81	90
26	MP5	Z	0	90
27	MP7	X	-345.63	6
28	MP7	Z	0	6
29	MP7	X	-345.63	90
30	MP7	Z	0	90
31	MP8	X	-345.63	6

Member Point Loads (BLC 5 : Wind Load AZI 90) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
32	MP8	Z	0	6
33	MP8	X	-345.63	90
34	MP8	Z	0	90
35	MP5	X	-49.96	60
36	MP5	Z	0	60
37	MP5	X	-49.96	60
38	MP5	Z	0	60
39	MP7	X	-89.93	60
40	MP7	Z	0	60
41	MP8	X	-100.36	60
42	MP8	Z	0	60
43	MP8	X	-104.25	60
44	MP8	Z	0	60
45	MP9	X	-132.81	47
46	MP9	Z	0	47
47	MP9	X	-132.81	90
48	MP9	Z	0	90
49	MP11	X	-225.76	6
50	MP11	Z	0	6
51	MP11	X	-225.76	90
52	MP11	Z	0	90
53	MP12	X	-225.76	6
54	MP12	Z	0	6
55	MP12	X	-225.76	90
56	MP12	Z	0	90
57	MP9	X	-49.96	60
58	MP9	Z	0	60
59	MP9	X	-49.96	60
60	MP9	Z	0	60
61	MP11	X	-89.93	60
62	MP11	Z	0	60
63	MP12	X	-100.36	60
64	MP12	Z	0	60
65	MP12	X	-104.25	60
66	MP12	Z	0	60

Member Point Loads (BLC 6 : Wind Load AZI 120)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
1	MP1	X	-84.51	47
2	MP1	Z	48.79	47
3	MP1	X	-84.51	90
4	MP1	Z	48.79	90
5	MP3	X	-315.41	6
6	MP3	Z	182.1	6
7	MP3	X	-315.41	90
8	MP3	Z	182.1	90
9	MP4	X	-315.41	6
10	MP4	Z	182.1	6
11	MP4	X	-315.41	90
12	MP4	Z	182.1	90
13	MP1	X	-25.37	60
14	MP1	Z	14.65	60
15	MP1	X	-25.37	60
16	MP1	Z	14.65	60
17	MP3	X	-59.35	60
18	MP3	Z	34.26	60

Member Point Loads (BLC 6 : Wind Load AZI 120) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
19	MP4	X	-73.43	60
20	MP4	Z	42.4	60
21	MP4	X	-83.54	60
22	MP4	Z	48.23	60
23	MP5	X	-84.51	47
24	MP5	Z	48.79	47
25	MP5	X	-84.51	90
26	MP5	Z	48.79	90
27	MP7	X	-402.94	6
28	MP7	Z	232.64	6
29	MP7	X	-402.94	90
30	MP7	Z	232.64	90
31	MP8	X	-402.94	6
32	MP8	Z	232.64	6
33	MP8	X	-402.94	90
34	MP8	Z	232.64	90
35	MP5	X	-25.37	60
36	MP5	Z	14.65	60
37	MP5	X	-25.37	60
38	MP5	Z	14.65	60
39	MP7	X	-59.35	60
40	MP7	Z	34.26	60
41	MP8	X	-73.43	60
42	MP8	Z	42.4	60
43	MP8	X	-83.54	60
44	MP8	Z	48.23	60
45	MP9	X	-130.27	47
46	MP9	Z	75.21	47
47	MP9	X	-130.27	90
48	MP9	Z	75.21	90
49	MP11	X	-227.29	6
50	MP11	Z	131.22	6
51	MP11	X	-227.29	90
52	MP11	Z	131.22	90
53	MP12	X	-227.29	6
54	MP12	Z	131.22	6
55	MP12	X	-227.29	90
56	MP12	Z	131.22	90
57	MP9	X	-52.22	60
58	MP9	Z	30.15	60
59	MP9	X	-52.22	60
60	MP9	Z	30.15	60
61	MP11	X	-87.15	60
62	MP11	Z	50.32	60
63	MP12	X	-93.65	60
64	MP12	Z	54.07	60
65	MP12	X	-93.65	60
66	MP12	Z	54.07	60

Member Point Loads (BLC 7 : Wind Load AZI 150)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1	X	-66.41	47
2	MP1	Z	115.02	47
3	MP1	X	-66.41	90
4	MP1	Z	115.02	90
5	MP3	X	-122.28	6

Member Point Loads (BLC 7 : Wind Load AZI 150) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
6	MP3	Z	211.8	6
7	MP3	X	-122.28	90
8	MP3	Z	211.8	90
9	MP4	X	-122.28	6
10	MP4	Z	211.8	6
11	MP4	X	-122.28	90
12	MP4	Z	211.8	90
13	MP1	X	-24.98	60
14	MP1	Z	43.27	60
15	MP1	X	-24.98	60
16	MP1	Z	43.27	60
17	MP3	X	-44.96	60
18	MP3	Z	77.88	60
19	MP4	X	-50.18	60
20	MP4	Z	86.91	60
21	MP4	X	-52.12	60
22	MP4	Z	90.28	60
23	MP5	X	-39.98	47
24	MP5	Z	69.25	47
25	MP5	X	-39.98	90
26	MP5	Z	69.25	90
27	MP7	X	-237.28	6
28	MP7	Z	410.98	6
29	MP7	X	-237.28	90
30	MP7	Z	410.98	90
31	MP8	X	-237.28	6
32	MP8	Z	410.98	6
33	MP8	X	-237.28	90
34	MP8	Z	410.98	90
35	MP5	X	-9.48	60
36	MP5	Z	16.42	60
37	MP5	X	-9.48	60
38	MP5	Z	16.42	60
39	MP7	X	-28.91	60
40	MP7	Z	50.08	60
41	MP8	X	-38.5	60
42	MP8	Z	66.69	60
43	MP8	X	-46.29	60
44	MP8	Z	80.17	60
45	MP9	X	-66.41	47
46	MP9	Z	115.02	47
47	MP9	X	-66.41	90
48	MP9	Z	115.02	90
49	MP11	X	-195.8	6
50	MP11	Z	339.14	6
51	MP11	X	-195.8	90
52	MP11	Z	339.14	90
53	MP12	X	-195.8	6
54	MP12	Z	339.14	6
55	MP12	X	-195.8	90
56	MP12	Z	339.14	90
57	MP9	X	-24.98	60
58	MP9	Z	43.27	60
59	MP9	X	-24.98	60
60	MP9	Z	43.27	60
61	MP11	X	-44.96	60
62	MP11	Z	77.88	60

Member Point Loads (BLC 7 : Wind Load AZI 150) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in, %]
63	MP12	X	-50.18	60
64	MP12	Z	86.91	60
65	MP12	X	-52.12	60
66	MP12	Z	90.28	60

Member Point Loads (BLC 8 : Wind Load AZI 180)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in, %]
1	MP1	X	0	47
2	MP1	Z	150.43	47
3	MP1	X	0	90
4	MP1	Z	150.43	90
5	MP3	X	0	6
6	MP3	Z	235.28	6
7	MP3	X	0	90
8	MP3	Z	235.28	90
9	MP4	X	0	6
10	MP4	Z	235.28	6
11	MP4	X	0	90
12	MP4	Z	235.28	90
13	MP1	X	0	60
14	MP1	Z	60.3	60
15	MP1	X	0	60
16	MP1	Z	60.3	60
17	MP3	X	0	60
18	MP3	Z	100.63	60
19	MP4	X	0	60
20	MP4	Z	108.14	60
21	MP4	X	0	60
22	MP4	Z	108.14	60
23	MP5	X	0	47
24	MP5	Z	97.58	47
25	MP5	X	0	90
26	MP5	Z	97.58	90
27	MP7	X	0	6
28	MP7	Z	364.2	6
29	MP7	X	0	90
30	MP7	Z	364.2	90
31	MP8	X	0	6
32	MP8	Z	364.2	6
33	MP8	X	0	90
34	MP8	Z	364.2	90
35	MP5	X	0	60
36	MP5	Z	29.29	60
37	MP5	X	0	60
38	MP5	Z	29.29	60
39	MP7	X	0	60
40	MP7	Z	68.53	60
41	MP8	X	0	60
42	MP8	Z	84.79	60
43	MP8	X	0	60
44	MP8	Z	96.47	60
45	MP9	X	0	47
46	MP9	Z	97.58	47
47	MP9	X	0	90
48	MP9	Z	97.58	90
49	MP11	X	0	6

Member Point Loads (BLC 8 : Wind Load AZI 180) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
50	MP11	Z	484.07	6
51	MP11	X	0	90
52	MP11	Z	484.07	90
53	MP12	X	0	6
54	MP12	Z	484.07	6
55	MP12	X	0	90
56	MP12	Z	484.07	90
57	MP9	X	0	60
58	MP9	Z	29.29	60
59	MP9	X	0	60
60	MP9	Z	29.29	60
61	MP11	X	0	60
62	MP11	Z	68.53	60
63	MP12	X	0	60
64	MP12	Z	84.79	60
65	MP12	X	0	60
66	MP12	Z	96.47	60

Member Point Loads (BLC 9 : Wind Load AZI 210)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
1	MP1	X	66.41	47
2	MP1	Z	115.02	47
3	MP1	X	66.41	90
4	MP1	Z	115.02	90
5	MP3	X	172.82	6
6	MP3	Z	299.32	6
7	MP3	X	172.82	90
8	MP3	Z	299.32	90
9	MP4	X	172.82	6
10	MP4	Z	299.32	6
11	MP4	X	172.82	90
12	MP4	Z	299.32	90
13	MP1	X	24.98	60
14	MP1	Z	43.27	60
15	MP1	X	24.98	60
16	MP1	Z	43.27	60
17	MP3	X	44.96	60
18	MP3	Z	77.88	60
19	MP4	X	50.18	60
20	MP4	Z	86.91	60
21	MP4	X	52.12	60
22	MP4	Z	90.28	60
23	MP5	X	66.41	47
24	MP5	Z	115.02	47
25	MP5	X	66.41	90
26	MP5	Z	115.02	90
27	MP7	X	122.28	6
28	MP7	Z	211.8	6
29	MP7	X	122.28	90
30	MP7	Z	211.8	90
31	MP8	X	122.28	6
32	MP8	Z	211.8	6
33	MP8	X	122.28	90
34	MP8	Z	211.8	90
35	MP5	X	24.98	60
36	MP5	Z	43.27	60

Member Point Loads (BLC 9 : Wind Load AZI 210) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
37	MP5	X	24.98	60
38	MP5	Z	43.27	60
39	MP7	X	44.96	60
40	MP7	Z	77.88	60
41	MP8	X	50.18	60
42	MP8	Z	86.91	60
43	MP8	X	52.12	60
44	MP8	Z	90.28	60
45	MP9	X	39.98	47
46	MP9	Z	69.25	47
47	MP9	X	39.98	90
48	MP9	Z	69.25	90
49	MP11	X	223.69	6
50	MP11	Z	387.45	6
51	MP11	X	223.69	90
52	MP11	Z	387.45	90
53	MP12	X	223.69	6
54	MP12	Z	387.45	6
55	MP12	X	223.69	90
56	MP12	Z	387.45	90
57	MP9	X	9.48	60
58	MP9	Z	16.42	60
59	MP9	X	9.48	60
60	MP9	Z	16.42	60
61	MP11	X	28.91	60
62	MP11	Z	50.08	60
63	MP12	X	38.5	60
64	MP12	Z	66.69	60
65	MP12	X	46.29	60
66	MP12	Z	80.17	60

Member Point Loads (BLC 10 : Wind Load AZI 240)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
1	MP1	X	84.51	47
2	MP1	Z	48.79	47
3	MP1	X	84.51	90
4	MP1	Z	48.79	90
5	MP3	X	402.94	6
6	MP3	Z	232.64	6
7	MP3	X	402.94	90
8	MP3	Z	232.64	90
9	MP4	X	402.94	6
10	MP4	Z	232.64	6
11	MP4	X	402.94	90
12	MP4	Z	232.64	90
13	MP1	X	25.37	60
14	MP1	Z	14.65	60
15	MP1	X	25.37	60
16	MP1	Z	14.65	60
17	MP3	X	59.35	60
18	MP3	Z	34.26	60
19	MP4	X	73.43	60
20	MP4	Z	42.4	60
21	MP4	X	83.54	60
22	MP4	Z	48.23	60
23	MP5	X	130.27	47

Member Point Loads (BLC 10 : Wind Load AZI 240) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
24	MP5	Z	75.21	47
25	MP5	X	130.27	90
26	MP5	Z	75.21	90
27	MP7	X	203.75	6
28	MP7	Z	117.64	6
29	MP7	X	203.75	90
30	MP7	Z	117.64	90
31	MP8	X	203.75	6
32	MP8	Z	117.64	6
33	MP8	X	203.75	90
34	MP8	Z	117.64	90
35	MP5	X	52.22	60
36	MP5	Z	30.15	60
37	MP5	X	52.22	60
38	MP5	Z	30.15	60
39	MP7	X	87.15	60
40	MP7	Z	50.32	60
41	MP8	X	93.65	60
42	MP8	Z	54.07	60
43	MP8	X	93.65	60
44	MP8	Z	54.07	60
45	MP9	X	84.51	47
46	MP9	Z	48.79	47
47	MP9	X	84.51	90
48	MP9	Z	48.79	90
49	MP11	X	275.59	6
50	MP11	Z	159.11	6
51	MP11	X	275.59	90
52	MP11	Z	159.11	90
53	MP12	X	275.59	6
54	MP12	Z	159.11	6
55	MP12	X	275.59	90
56	MP12	Z	159.11	90
57	MP9	X	25.37	60
58	MP9	Z	14.65	60
59	MP9	X	25.37	60
60	MP9	Z	14.65	60
61	MP11	X	59.35	60
62	MP11	Z	34.26	60
63	MP12	X	73.43	60
64	MP12	Z	42.4	60
65	MP12	X	83.54	60
66	MP12	Z	48.23	60

Member Point Loads (BLC 11 : Wind Load AZI 270)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
1	MP1	X	79.97	47
2	MP1	Z	0	47
3	MP1	X	79.97	90
4	MP1	Z	0	90
5	MP3	X	474.56	6
6	MP3	Z	0	6
7	MP3	X	474.56	90
8	MP3	Z	0	90
9	MP4	X	474.56	6
10	MP4	Z	0	6

Member Point Loads (BLC 11 : Wind Load AZI 270) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
11	MP4	X	474.56	90
12	MP4	Z	0	90
13	MP1	X	18.96	60
14	MP1	Z	0	60
15	MP1	X	18.96	60
16	MP1	Z	0	60
17	MP3	X	57.83	60
18	MP3	Z	0	60
19	MP4	X	77.01	60
20	MP4	Z	0	60
21	MP4	X	92.57	60
22	MP4	Z	0	60
23	MP5	X	132.81	47
24	MP5	Z	0	47
25	MP5	X	132.81	90
26	MP5	Z	0	90
27	MP7	X	345.63	6
28	MP7	Z	0	6
29	MP7	X	345.63	90
30	MP7	Z	0	90
31	MP8	X	345.63	6
32	MP8	Z	0	6
33	MP8	X	345.63	90
34	MP8	Z	0	90
35	MP5	X	49.96	60
36	MP5	Z	0	60
37	MP5	X	49.96	60
38	MP5	Z	0	60
39	MP7	X	89.93	60
40	MP7	Z	0	60
41	MP8	X	100.36	60
42	MP8	Z	0	60
43	MP8	X	104.25	60
44	MP8	Z	0	60
45	MP9	X	132.81	47
46	MP9	Z	0	47
47	MP9	X	132.81	90
48	MP9	Z	0	90
49	MP11	X	225.76	6
50	MP11	Z	0	6
51	MP11	X	225.76	90
52	MP11	Z	0	90
53	MP12	X	225.76	6
54	MP12	Z	0	6
55	MP12	X	225.76	90
56	MP12	Z	0	90
57	MP9	X	49.96	60
58	MP9	Z	0	60
59	MP9	X	49.96	60
60	MP9	Z	0	60
61	MP11	X	89.93	60
62	MP11	Z	0	60
63	MP12	X	100.36	60
64	MP12	Z	0	60
65	MP12	X	104.25	60
66	MP12	Z	0	60

Member Point Loads (BLC 12 : Wind Load AZI 300)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
1	MP1	X	84.51	47
2	MP1	Z	-48.79	47
3	MP1	X	84.51	90
4	MP1	Z	-48.79	90
5	MP3	X	315.41	6
6	MP3	Z	-182.1	6
7	MP3	X	315.41	90
8	MP3	Z	-182.1	90
9	MP4	X	315.41	6
10	MP4	Z	-182.1	6
11	MP4	X	315.41	90
12	MP4	Z	-182.1	90
13	MP1	X	25.37	60
14	MP1	Z	-14.65	60
15	MP1	X	25.37	60
16	MP1	Z	-14.65	60
17	MP3	X	59.35	60
18	MP3	Z	-34.26	60
19	MP4	X	73.43	60
20	MP4	Z	-42.4	60
21	MP4	X	83.54	60
22	MP4	Z	-48.23	60
23	MP5	X	84.51	47
24	MP5	Z	-48.79	47
25	MP5	X	84.51	90
26	MP5	Z	-48.79	90
27	MP7	X	402.94	6
28	MP7	Z	-232.64	6
29	MP7	X	402.94	90
30	MP7	Z	-232.64	90
31	MP8	X	402.94	6
32	MP8	Z	-232.64	6
33	MP8	X	402.94	90
34	MP8	Z	-232.64	90
35	MP5	X	25.37	60
36	MP5	Z	-14.65	60
37	MP5	X	25.37	60
38	MP5	Z	-14.65	60
39	MP7	X	59.35	60
40	MP7	Z	-34.26	60
41	MP8	X	73.43	60
42	MP8	Z	-42.4	60
43	MP8	X	83.54	60
44	MP8	Z	-48.23	60
45	MP9	X	130.27	47
46	MP9	Z	-75.21	47
47	MP9	X	130.27	90
48	MP9	Z	-75.21	90
49	MP11	X	227.29	6
50	MP11	Z	-131.22	6
51	MP11	X	227.29	90
52	MP11	Z	-131.22	90
53	MP12	X	227.29	6
54	MP12	Z	-131.22	6
55	MP12	X	227.29	90
56	MP12	Z	-131.22	90
57	MP9	X	52.22	60

Member Point Loads (BLC 12 : Wind Load AZI 300) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
58	MP9	Z	-30.15	60
59	MP9	X	52.22	60
60	MP9	Z	-30.15	60
61	MP11	X	87.15	60
62	MP11	Z	-50.32	60
63	MP12	X	93.65	60
64	MP12	Z	-54.07	60
65	MP12	X	93.65	60
66	MP12	Z	-54.07	60

Member Point Loads (BLC 13 : Wind Load AZI 330)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in.%]
1	MP1	X	66.41	47
2	MP1	Z	-115.02	47
3	MP1	X	66.41	90
4	MP1	Z	-115.02	90
5	MP3	X	122.28	6
6	MP3	Z	-211.8	6
7	MP3	X	122.28	90
8	MP3	Z	-211.8	90
9	MP4	X	122.28	6
10	MP4	Z	-211.8	6
11	MP4	X	122.28	90
12	MP4	Z	-211.8	90
13	MP1	X	24.98	60
14	MP1	Z	-43.27	60
15	MP1	X	24.98	60
16	MP1	Z	-43.27	60
17	MP3	X	44.96	60
18	MP3	Z	-77.88	60
19	MP4	X	50.18	60
20	MP4	Z	-86.91	60
21	MP4	X	52.12	60
22	MP4	Z	-90.28	60
23	MP5	X	39.98	47
24	MP5	Z	-69.25	47
25	MP5	X	39.98	90
26	MP5	Z	-69.25	90
27	MP7	X	237.28	6
28	MP7	Z	-410.98	6
29	MP7	X	237.28	90
30	MP7	Z	-410.98	90
31	MP8	X	237.28	6
32	MP8	Z	-410.98	6
33	MP8	X	237.28	90
34	MP8	Z	-410.98	90
35	MP5	X	9.48	60
36	MP5	Z	-16.42	60
37	MP5	X	9.48	60
38	MP5	Z	-16.42	60
39	MP7	X	28.91	60
40	MP7	Z	-50.08	60
41	MP8	X	38.5	60
42	MP8	Z	-66.69	60
43	MP8	X	46.29	60
44	MP8	Z	-80.17	60

Member Point Loads (BLC 13 : Wind Load AZI 330) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
45	MP9	X	66.41	47
46	MP9	Z	-115.02	47
47	MP9	X	66.41	90
48	MP9	Z	-115.02	90
49	MP11	X	195.8	6
50	MP11	Z	-339.14	6
51	MP11	X	195.8	90
52	MP11	Z	-339.14	90
53	MP12	X	195.8	6
54	MP12	Z	-339.14	6
55	MP12	X	195.8	90
56	MP12	Z	-339.14	90
57	MP9	X	24.98	60
58	MP9	Z	-43.27	60
59	MP9	X	24.98	60
60	MP9	Z	-43.27	60
61	MP11	X	44.96	60
62	MP11	Z	-77.88	60
63	MP12	X	50.18	60
64	MP12	Z	-86.91	60
65	MP12	X	52.12	60
66	MP12	Z	-90.28	60

Member Point Loads (BLC 16 : Ice Weight)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1	Y	-58.665	47
2	MP1	Y	-58.665	90
3	MP3	Y	-165.232	6
4	MP3	Y	-165.232	90
5	MP4	Y	-165.232	6
6	MP4	Y	-165.232	90
7	MP1	Y	-28.687	60
8	MP1	Y	-28.687	60
9	MP3	Y	-58.18	60
10	MP4	Y	-67.129	60
11	MP4	Y	-73.692	60
12	MP5	Y	-58.665	47
13	MP5	Y	-58.665	90
14	MP7	Y	-165.232	6
15	MP7	Y	-165.232	90
16	MP8	Y	-165.232	6
17	MP8	Y	-165.232	90
18	MP5	Y	-28.687	60
19	MP5	Y	-28.687	60
20	MP7	Y	-58.18	60
21	MP8	Y	-67.129	60
22	MP8	Y	-73.692	60
23	MP9	Y	-58.665	47
24	MP9	Y	-58.665	90
25	MP11	Y	-165.232	6
26	MP11	Y	-165.232	90
27	MP12	Y	-165.232	6
28	MP12	Y	-165.232	90
29	MP9	Y	-28.687	60
30	MP9	Y	-28.687	60
31	MP11	Y	-58.18	60

Member Point Loads (BLC 16 : Ice Weight) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
32	MP12	Y	-67.129	60
33	MP12	Y	-73.692	60

Member Point Loads (BLC 17 : Ice Wind Load AZI 0)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
1	MP1	X	0	47
2	MP1	Z	-12.99	47
3	MP1	X	0	90
4	MP1	Z	-12.99	90
5	MP3	X	0	6
6	MP3	Z	-22.45	6
7	MP3	X	0	90
8	MP3	Z	-22.45	90
9	MP4	X	0	6
10	MP4	Z	-22.45	6
11	MP4	X	0	90
12	MP4	Z	-22.45	90
13	MP1	X	0	60
14	MP1	Z	-6.82	60
15	MP1	X	0	60
16	MP1	Z	-6.82	60
17	MP3	X	0	60
18	MP3	Z	-9.22	60
19	MP4	X	0	60
20	MP4	Z	-9.81	60
21	MP4	X	0	60
22	MP4	Z	-9.81	60
23	MP5	X	0	47
24	MP5	Z	-11.14	47
25	MP5	X	0	90
26	MP5	Z	-11.14	90
27	MP7	X	0	6
28	MP7	Z	-29.41	6
29	MP7	X	0	90
30	MP7	Z	-29.41	90
31	MP8	X	0	6
32	MP8	Z	-29.41	6
33	MP8	X	0	90
34	MP8	Z	-29.41	90
35	MP5	X	0	60
36	MP5	Z	-4.75	60
37	MP5	X	0	60
38	MP5	Z	-4.75	60
39	MP7	X	0	60
40	MP7	Z	-7.67	60
41	MP8	X	0	60
42	MP8	Z	-8.67	60
43	MP8	X	0	60
44	MP8	Z	-9.14	60
45	MP9	X	0	47
46	MP9	Z	-11.14	47
47	MP9	X	0	90
48	MP9	Z	-11.14	90
49	MP11	X	0	6
50	MP11	Z	-35.88	6
51	MP11	X	0	90

Member Point Loads (BLC 17 : Ice Wind Load AZI 0) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
52	MP11	Z	-35.88	90
53	MP12	X	0	6
54	MP12	Z	-35.88	6
55	MP12	X	0	90
56	MP12	Z	-35.88	90
57	MP9	X	0	60
58	MP9	Z	-4.75	60
59	MP9	X	0	60
60	MP9	Z	-4.75	60
61	MP11	X	0	60
62	MP11	Z	-7.67	60
63	MP12	X	0	60
64	MP12	Z	-8.67	60
65	MP12	X	0	60
66	MP12	Z	-9.14	60

Member Point Loads (BLC 18 : Ice Wind Load AZI 30)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
1	MP1	X	-6.19	47
2	MP1	Z	-10.72	47
3	MP1	X	-6.19	90
4	MP1	Z	-10.72	90
5	MP3	X	-14.2	6
6	MP3	Z	-24.6	6
7	MP3	X	-14.2	90
8	MP3	Z	-24.6	90
9	MP4	X	-14.2	6
10	MP4	Z	-24.6	6
11	MP4	X	-14.2	90
12	MP4	Z	-24.6	90
13	MP1	X	-3.07	60
14	MP1	Z	-5.31	60
15	MP1	X	-3.07	60
16	MP1	Z	-5.31	60
17	MP3	X	-4.35	60
18	MP3	Z	-7.54	60
19	MP4	X	-4.71	60
20	MP4	Z	-8.17	60
21	MP4	X	-4.79	60
22	MP4	Z	-8.3	60
23	MP5	X	-6.19	47
24	MP5	Z	-10.72	47
25	MP5	X	-6.19	90
26	MP5	Z	-10.72	90
27	MP7	X	-11.47	6
28	MP7	Z	-19.88	6
29	MP7	X	-11.47	90
30	MP7	Z	-19.88	90
31	MP8	X	-11.47	6
32	MP8	Z	-19.88	6
33	MP8	X	-11.47	90
34	MP8	Z	-19.88	90
35	MP5	X	-3.07	60
36	MP5	Z	-5.31	60
37	MP5	X	-3.07	60
38	MP5	Z	-5.31	60

Member Point Loads (BLC 18 : Ice Wind Load AZI 30) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in, %]
39	MP7	X	-4.35	60
40	MP7	Z	-7.54	60
41	MP8	X	-4.71	60
42	MP8	Z	-8.17	60
43	MP8	X	-4.79	60
44	MP8	Z	-8.3	60
45	MP9	X	-5.26	47
46	MP9	Z	-9.11	47
47	MP9	X	-5.26	90
48	MP9	Z	-9.11	90
49	MP11	X	-16.95	6
50	MP11	Z	-29.36	6
51	MP11	X	-16.95	90
52	MP11	Z	-29.36	90
53	MP12	X	-16.95	6
54	MP12	Z	-29.36	6
55	MP12	X	-16.95	90
56	MP12	Z	-29.36	90
57	MP9	X	-2.03	60
58	MP9	Z	-3.51	60
59	MP9	X	-2.03	60
60	MP9	Z	-3.51	60
61	MP11	X	-3.57	60
62	MP11	Z	-6.19	60
63	MP12	X	-4.15	60
64	MP12	Z	-7.19	60
65	MP12	X	-4.46	60
66	MP12	Z	-7.73	60

Member Point Loads (BLC 19 : Ice Wind Load AZI 60)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in, %]
1	MP1	X	-9.65	47
2	MP1	Z	-5.57	47
3	MP1	X	-9.65	90
4	MP1	Z	-5.57	90
5	MP3	X	-30.19	6
6	MP3	Z	-17.43	6
7	MP3	X	-30.19	90
8	MP3	Z	-17.43	90
9	MP4	X	-30.19	6
10	MP4	Z	-17.43	6
11	MP4	X	-30.19	90
12	MP4	Z	-17.43	90
13	MP1	X	-4.11	60
14	MP1	Z	-2.37	60
15	MP1	X	-4.11	60
16	MP1	Z	-2.37	60
17	MP3	X	-6.64	60
18	MP3	Z	-3.83	60
19	MP4	X	-7.51	60
20	MP4	Z	-4.34	60
21	MP4	X	-7.92	60
22	MP4	Z	-4.57	60
23	MP5	X	-11.25	47
24	MP5	Z	-6.5	47
25	MP5	X	-11.25	90

Member Point Loads (BLC 19 : Ice Wind Load AZI 60) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
26	MP5	Z	-6.5	90
27	MP7	X	-19.44	6
28	MP7	Z	-11.22	6
29	MP7	X	-19.44	90
30	MP7	Z	-11.22	90
31	MP8	X	-19.44	6
32	MP8	Z	-11.22	6
33	MP8	X	-19.44	90
34	MP8	Z	-11.22	90
35	MP5	X	-5.91	60
36	MP5	Z	-3.41	60
37	MP5	X	-5.91	60
38	MP5	Z	-3.41	60
39	MP7	X	-7.99	60
40	MP7	Z	-4.61	60
41	MP8	X	-8.49	60
42	MP8	Z	-4.9	60
43	MP8	X	-8.49	60
44	MP8	Z	-4.9	60
45	MP9	X	-9.65	47
46	MP9	Z	-5.57	47
47	MP9	X	-9.65	90
48	MP9	Z	-5.57	90
49	MP11	X	-23.32	6
50	MP11	Z	-13.46	6
51	MP11	X	-23.32	90
52	MP11	Z	-13.46	90
53	MP12	X	-23.32	6
54	MP12	Z	-13.46	6
55	MP12	X	-23.32	90
56	MP12	Z	-13.46	90
57	MP9	X	-4.11	60
58	MP9	Z	-2.37	60
59	MP9	X	-4.11	60
60	MP9	Z	-2.37	60
61	MP11	X	-6.64	60
62	MP11	Z	-3.83	60
63	MP12	X	-7.51	60
64	MP12	Z	-4.34	60
65	MP12	X	-7.92	60
66	MP12	Z	-4.57	60

Member Point Loads (BLC 20 : Ice Wind Load AZI 90)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
1	MP1	X	-10.52	47
2	MP1	Z	0	47
3	MP1	X	-10.52	90
4	MP1	Z	0	90
5	MP3	X	-35.37	6
6	MP3	Z	0	6
7	MP3	X	-35.37	90
8	MP3	Z	0	90
9	MP4	X	-35.37	6
10	MP4	Z	0	6
11	MP4	X	-35.37	90
12	MP4	Z	0	90

Member Point Loads (BLC 20 : Ice Wind Load AZI 90) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
13	MP1	X	-4.06	60
14	MP1	Z	0	60
15	MP1	X	-4.06	60
16	MP1	Z	0	60
17	MP3	X	-7.15	60
18	MP3	Z	0	60
19	MP4	X	-8.3	60
20	MP4	Z	0	60
21	MP4	X	-8.92	60
22	MP4	Z	0	60
23	MP5	X	-12.38	47
24	MP5	Z	0	47
25	MP5	X	-12.38	90
26	MP5	Z	0	90
27	MP7	X	-28.41	6
28	MP7	Z	0	6
29	MP7	X	-28.41	90
30	MP7	Z	0	90
31	MP8	X	-28.41	6
32	MP8	Z	0	6
33	MP8	X	-28.41	90
34	MP8	Z	0	90
35	MP5	X	-6.13	60
36	MP5	Z	0	60
37	MP5	X	-6.13	60
38	MP5	Z	0	60
39	MP7	X	-8.7	60
40	MP7	Z	0	60
41	MP8	X	-9.43	60
42	MP8	Z	0	60
43	MP8	X	-9.59	60
44	MP8	Z	0	60
45	MP9	X	-12.38	47
46	MP9	Z	0	47
47	MP9	X	-12.38	90
48	MP9	Z	0	90
49	MP11	X	-21.93	6
50	MP11	Z	0	6
51	MP11	X	-21.93	90
52	MP11	Z	0	90
53	MP12	X	-21.93	6
54	MP12	Z	0	6
55	MP12	X	-21.93	90
56	MP12	Z	0	90
57	MP9	X	-6.13	60
58	MP9	Z	0	60
59	MP9	X	-6.13	60
60	MP9	Z	0	60
61	MP11	X	-8.7	60
62	MP11	Z	0	60
63	MP12	X	-9.43	60
64	MP12	Z	0	60
65	MP12	X	-9.59	60
66	MP12	Z	0	60

Member Point Loads (BLC 21 : Ice Wind Load AZI 120)

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

Member Point Loads (BLC 21 : Ice Wind Load AZI 120) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
1	MP1	X	-9.65	47
2	MP1	Z	5.57	47
3	MP1	X	-9.65	90
4	MP1	Z	5.57	90
5	MP3	X	-25.47	6
6	MP3	Z	14.7	6
7	MP3	X	-25.47	90
8	MP3	Z	14.7	90
9	MP4	X	-25.47	6
10	MP4	Z	14.7	6
11	MP4	X	-25.47	90
12	MP4	Z	14.7	90
13	MP1	X	-4.11	60
14	MP1	Z	2.37	60
15	MP1	X	-4.11	60
16	MP1	Z	2.37	60
17	MP3	X	-6.64	60
18	MP3	Z	3.83	60
19	MP4	X	-7.51	60
20	MP4	Z	4.34	60
21	MP4	X	-7.92	60
22	MP4	Z	4.57	60
23	MP5	X	-9.65	47
24	MP5	Z	5.57	47
25	MP5	X	-9.65	90
26	MP5	Z	5.57	90
27	MP7	X	-30.19	6
28	MP7	Z	17.43	6
29	MP7	X	-30.19	90
30	MP7	Z	17.43	90
31	MP8	X	-30.19	6
32	MP8	Z	17.43	6
33	MP8	X	-30.19	90
34	MP8	Z	17.43	90
35	MP5	X	-4.11	60
36	MP5	Z	2.37	60
37	MP5	X	-4.11	60
38	MP5	Z	2.37	60
39	MP7	X	-6.64	60
40	MP7	Z	3.83	60
41	MP8	X	-7.51	60
42	MP8	Z	4.34	60
43	MP8	X	-7.92	60
44	MP8	Z	4.57	60
45	MP9	X	-11.25	47
46	MP9	Z	6.5	47
47	MP9	X	-11.25	90
48	MP9	Z	6.5	90
49	MP11	X	-20.71	6
50	MP11	Z	11.96	6
51	MP11	X	-20.71	90
52	MP11	Z	11.96	90
53	MP12	X	-20.71	6
54	MP12	Z	11.96	6
55	MP12	X	-20.71	90
56	MP12	Z	11.96	90
57	MP9	X	-5.91	60

Member Point Loads (BLC 21 : Ice Wind Load AZI 120) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
58	MP9	Z	3.41	60
59	MP9	X	-5.91	60
60	MP9	Z	3.41	60
61	MP11	X	-7.99	60
62	MP11	Z	4.61	60
63	MP12	X	-8.49	60
64	MP12	Z	4.9	60
65	MP12	X	-8.49	60
66	MP12	Z	4.9	60

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in,%]
1	MP1	X	-6.19	47
2	MP1	Z	10.72	47
3	MP1	X	-6.19	90
4	MP1	Z	10.72	90
5	MP3	X	-11.47	6
6	MP3	Z	19.88	6
7	MP3	X	-11.47	90
8	MP3	Z	19.88	90
9	MP4	X	-11.47	6
10	MP4	Z	19.88	6
11	MP4	X	-11.47	90
12	MP4	Z	19.88	90
13	MP1	X	-3.07	60
14	MP1	Z	5.31	60
15	MP1	X	-3.07	60
16	MP1	Z	5.31	60
17	MP3	X	-4.35	60
18	MP3	Z	7.54	60
19	MP4	X	-4.71	60
20	MP4	Z	8.17	60
21	MP4	X	-4.79	60
22	MP4	Z	8.3	60
23	MP5	X	-5.26	47
24	MP5	Z	9.11	47
25	MP5	X	-5.26	90
26	MP5	Z	9.11	90
27	MP7	X	-17.68	6
28	MP7	Z	30.63	6
29	MP7	X	-17.68	90
30	MP7	Z	30.63	90
31	MP8	X	-17.68	6
32	MP8	Z	30.63	6
33	MP8	X	-17.68	90
34	MP8	Z	30.63	90
35	MP5	X	-2.03	60
36	MP5	Z	3.51	60
37	MP5	X	-2.03	60
38	MP5	Z	3.51	60
39	MP7	X	-3.57	60
40	MP7	Z	6.19	60
41	MP8	X	-4.15	60
42	MP8	Z	7.19	60
43	MP8	X	-4.46	60
44	MP8	Z	7.73	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in, %]
45	MP9	X	-6.19	47
46	MP9	Z	10.72	47
47	MP9	X	-6.19	90
48	MP9	Z	10.72	90
49	MP11	X	-15.44	6
50	MP11	Z	26.75	6
51	MP11	X	-15.44	90
52	MP11	Z	26.75	90
53	MP12	X	-15.44	6
54	MP12	Z	26.75	6
55	MP12	X	-15.44	90
56	MP12	Z	26.75	90
57	MP9	X	-3.07	60
58	MP9	Z	5.31	60
59	MP9	X	-3.07	60
60	MP9	Z	5.31	60
61	MP11	X	-4.35	60
62	MP11	Z	7.54	60
63	MP12	X	-4.71	60
64	MP12	Z	8.17	60
65	MP12	X	-4.79	60
66	MP12	Z	8.3	60

Member Point Loads (BLC 23 : Ice Wind Load AZI 180)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in, %]
1	MP1	X	0	47
2	MP1	Z	12.99	47
3	MP1	X	0	90
4	MP1	Z	12.99	90
5	MP3	X	0	6
6	MP3	Z	22.45	6
7	MP3	X	0	90
8	MP3	Z	22.45	90
9	MP4	X	0	6
10	MP4	Z	22.45	6
11	MP4	X	0	90
12	MP4	Z	22.45	90
13	MP1	X	0	60
14	MP1	Z	6.82	60
15	MP1	X	0	60
16	MP1	Z	6.82	60
17	MP3	X	0	60
18	MP3	Z	9.22	60
19	MP4	X	0	60
20	MP4	Z	9.81	60
21	MP4	X	0	60
22	MP4	Z	9.81	60
23	MP5	X	0	47
24	MP5	Z	11.14	47
25	MP5	X	0	90
26	MP5	Z	11.14	90
27	MP7	X	0	6
28	MP7	Z	29.41	6
29	MP7	X	0	90
30	MP7	Z	29.41	90
31	MP8	X	0	6

Member Point Loads (BLC 23 : Ice Wind Load AZI 180) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
32	MP8	Z	29.41	6
33	MP8	X	0	90
34	MP8	Z	29.41	90
35	MP5	X	0	60
36	MP5	Z	4.75	60
37	MP5	X	0	60
38	MP5	Z	4.75	60
39	MP7	X	0	60
40	MP7	Z	7.67	60
41	MP8	X	0	60
42	MP8	Z	8.67	60
43	MP8	X	0	60
44	MP8	Z	9.14	60
45	MP9	X	0	47
46	MP9	Z	11.14	47
47	MP9	X	0	90
48	MP9	Z	11.14	90
49	MP11	X	0	6
50	MP11	Z	35.88	6
51	MP11	X	0	90
52	MP11	Z	35.88	90
53	MP12	X	0	6
54	MP12	Z	35.88	6
55	MP12	X	0	90
56	MP12	Z	35.88	90
57	MP9	X	0	60
58	MP9	Z	4.75	60
59	MP9	X	0	60
60	MP9	Z	4.75	60
61	MP11	X	0	60
62	MP11	Z	7.67	60
63	MP12	X	0	60
64	MP12	Z	8.67	60
65	MP12	X	0	60
66	MP12	Z	9.14	60

Member Point Loads (BLC 24 : Ice Wind Load AZI 210)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
1	MP1	X	6.19	47
2	MP1	Z	10.72	47
3	MP1	X	6.19	90
4	MP1	Z	10.72	90
5	MP3	X	14.2	6
6	MP3	Z	24.6	6
7	MP3	X	14.2	90
8	MP3	Z	24.6	90
9	MP4	X	14.2	6
10	MP4	Z	24.6	6
11	MP4	X	14.2	90
12	MP4	Z	24.6	90
13	MP1	X	3.07	60
14	MP1	Z	5.31	60
15	MP1	X	3.07	60
16	MP1	Z	5.31	60
17	MP3	X	4.35	60
18	MP3	Z	7.54	60

Member Point Loads (BLC 24 : Ice Wind Load AZI 210) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
19	MP4	X	4.71	60
20	MP4	Z	8.17	60
21	MP4	X	4.79	60
22	MP4	Z	8.3	60
23	MP5	X	6.19	47
24	MP5	Z	10.72	47
25	MP5	X	6.19	90
26	MP5	Z	10.72	90
27	MP7	X	11.47	6
28	MP7	Z	19.88	6
29	MP7	X	11.47	90
30	MP7	Z	19.88	90
31	MP8	X	11.47	6
32	MP8	Z	19.88	6
33	MP8	X	11.47	90
34	MP8	Z	19.88	90
35	MP5	X	3.07	60
36	MP5	Z	5.31	60
37	MP5	X	3.07	60
38	MP5	Z	5.31	60
39	MP7	X	4.35	60
40	MP7	Z	7.54	60
41	MP8	X	4.71	60
42	MP8	Z	8.17	60
43	MP8	X	4.79	60
44	MP8	Z	8.3	60
45	MP9	X	5.26	47
46	MP9	Z	9.11	47
47	MP9	X	5.26	90
48	MP9	Z	9.11	90
49	MP11	X	16.95	6
50	MP11	Z	29.36	6
51	MP11	X	16.95	90
52	MP11	Z	29.36	90
53	MP12	X	16.95	6
54	MP12	Z	29.36	6
55	MP12	X	16.95	90
56	MP12	Z	29.36	90
57	MP9	X	2.03	60
58	MP9	Z	3.51	60
59	MP9	X	2.03	60
60	MP9	Z	3.51	60
61	MP11	X	3.57	60
62	MP11	Z	6.19	60
63	MP12	X	4.15	60
64	MP12	Z	7.19	60
65	MP12	X	4.46	60
66	MP12	Z	7.73	60

Member Point Loads (BLC 25 : Ice Wind Load AZI 240)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
1	MP1	X	9.65	47
2	MP1	Z	5.57	47
3	MP1	X	9.65	90
4	MP1	Z	5.57	90
5	MP3	X	30.19	6

Member Point Loads (BLC 25 : Ice Wind Load AZI 240) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
6	MP3	Z	17.43	6
7	MP3	X	30.19	90
8	MP3	Z	17.43	90
9	MP4	X	30.19	6
10	MP4	Z	17.43	6
11	MP4	X	30.19	90
12	MP4	Z	17.43	90
13	MP1	X	4.11	60
14	MP1	Z	2.37	60
15	MP1	X	4.11	60
16	MP1	Z	2.37	60
17	MP3	X	6.64	60
18	MP3	Z	3.83	60
19	MP4	X	7.51	60
20	MP4	Z	4.34	60
21	MP4	X	7.92	60
22	MP4	Z	4.57	60
23	MP5	X	11.25	47
24	MP5	Z	6.5	47
25	MP5	X	11.25	90
26	MP5	Z	6.5	90
27	MP7	X	19.44	6
28	MP7	Z	11.22	6
29	MP7	X	19.44	90
30	MP7	Z	11.22	90
31	MP8	X	19.44	6
32	MP8	Z	11.22	6
33	MP8	X	19.44	90
34	MP8	Z	11.22	90
35	MP5	X	5.91	60
36	MP5	Z	3.41	60
37	MP5	X	5.91	60
38	MP5	Z	3.41	60
39	MP7	X	7.99	60
40	MP7	Z	4.61	60
41	MP8	X	8.49	60
42	MP8	Z	4.9	60
43	MP8	X	8.49	60
44	MP8	Z	4.9	60
45	MP9	X	9.65	47
46	MP9	Z	5.57	47
47	MP9	X	9.65	90
48	MP9	Z	5.57	90
49	MP11	X	23.32	6
50	MP11	Z	13.46	6
51	MP11	X	23.32	90
52	MP11	Z	13.46	90
53	MP12	X	23.32	6
54	MP12	Z	13.46	6
55	MP12	X	23.32	90
56	MP12	Z	13.46	90
57	MP9	X	4.11	60
58	MP9	Z	2.37	60
59	MP9	X	4.11	60
60	MP9	Z	2.37	60
61	MP11	X	6.64	60
62	MP11	Z	3.83	60

Member Point Loads (BLC 25 : Ice Wind Load AZI 240) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
63	MP12	X	7.51	60
64	MP12	Z	4.34	60
65	MP12	X	7.92	60
66	MP12	Z	4.57	60

Member Point Loads (BLC 26 : Ice Wind Load AZI 270)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1	X	10.52	47
2	MP1	Z	0	47
3	MP1	X	10.52	90
4	MP1	Z	0	90
5	MP3	X	35.37	6
6	MP3	Z	0	6
7	MP3	X	35.37	90
8	MP3	Z	0	90
9	MP4	X	35.37	6
10	MP4	Z	0	6
11	MP4	X	35.37	90
12	MP4	Z	0	90
13	MP1	X	4.06	60
14	MP1	Z	0	60
15	MP1	X	4.06	60
16	MP1	Z	0	60
17	MP3	X	7.15	60
18	MP3	Z	0	60
19	MP4	X	8.3	60
20	MP4	Z	0	60
21	MP4	X	8.92	60
22	MP4	Z	0	60
23	MP5	X	12.38	47
24	MP5	Z	0	47
25	MP5	X	12.38	90
26	MP5	Z	0	90
27	MP7	X	28.41	6
28	MP7	Z	0	6
29	MP7	X	28.41	90
30	MP7	Z	0	90
31	MP8	X	28.41	6
32	MP8	Z	0	6
33	MP8	X	28.41	90
34	MP8	Z	0	90
35	MP5	X	6.13	60
36	MP5	Z	0	60
37	MP5	X	6.13	60
38	MP5	Z	0	60
39	MP7	X	8.7	60
40	MP7	Z	0	60
41	MP8	X	9.43	60
42	MP8	Z	0	60
43	MP8	X	9.59	60
44	MP8	Z	0	60
45	MP9	X	12.38	47
46	MP9	Z	0	47
47	MP9	X	12.38	90
48	MP9	Z	0	90
49	MP11	X	21.93	6

Member Point Loads (BLC 26 : Ice Wind Load AZI 270) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
50	MP11	Z	0	6
51	MP11	X	21.93	90
52	MP11	Z	0	90
53	MP12	X	21.93	6
54	MP12	Z	0	6
55	MP12	X	21.93	90
56	MP12	Z	0	90
57	MP9	X	6.13	60
58	MP9	Z	0	60
59	MP9	X	6.13	60
60	MP9	Z	0	60
61	MP11	X	8.7	60
62	MP11	Z	0	60
63	MP12	X	9.43	60
64	MP12	Z	0	60
65	MP12	X	9.59	60
66	MP12	Z	0	60

Member Point Loads (BLC 27 : Ice Wind Load AZI 300)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
1	MP1	X	9.65	47
2	MP1	Z	-5.57	47
3	MP1	X	9.65	90
4	MP1	Z	-5.57	90
5	MP3	X	25.47	6
6	MP3	Z	-14.7	6
7	MP3	X	25.47	90
8	MP3	Z	-14.7	90
9	MP4	X	25.47	6
10	MP4	Z	-14.7	6
11	MP4	X	25.47	90
12	MP4	Z	-14.7	90
13	MP1	X	4.11	60
14	MP1	Z	-2.37	60
15	MP1	X	4.11	60
16	MP1	Z	-2.37	60
17	MP3	X	6.64	60
18	MP3	Z	-3.83	60
19	MP4	X	7.51	60
20	MP4	Z	-4.34	60
21	MP4	X	7.92	60
22	MP4	Z	-4.57	60
23	MP5	X	9.65	47
24	MP5	Z	-5.57	47
25	MP5	X	9.65	90
26	MP5	Z	-5.57	90
27	MP7	X	30.19	6
28	MP7	Z	-17.43	6
29	MP7	X	30.19	90
30	MP7	Z	-17.43	90
31	MP8	X	30.19	6
32	MP8	Z	-17.43	6
33	MP8	X	30.19	90
34	MP8	Z	-17.43	90
35	MP5	X	4.11	60
36	MP5	Z	-2.37	60

Member Point Loads (BLC 27 : Ice Wind Load AZI 300) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
37	MP5	X	4.11	60
38	MP5	Z	-2.37	60
39	MP7	X	6.64	60
40	MP7	Z	-3.83	60
41	MP8	X	7.51	60
42	MP8	Z	-4.34	60
43	MP8	X	7.92	60
44	MP8	Z	-4.57	60
45	MP9	X	11.25	47
46	MP9	Z	-6.5	47
47	MP9	X	11.25	90
48	MP9	Z	-6.5	90
49	MP11	X	20.71	6
50	MP11	Z	-11.96	6
51	MP11	X	20.71	90
52	MP11	Z	-11.96	90
53	MP12	X	20.71	6
54	MP12	Z	-11.96	6
55	MP12	X	20.71	90
56	MP12	Z	-11.96	90
57	MP9	X	5.91	60
58	MP9	Z	-3.41	60
59	MP9	X	5.91	60
60	MP9	Z	-3.41	60
61	MP11	X	7.99	60
62	MP11	Z	-4.61	60
63	MP12	X	8.49	60
64	MP12	Z	-4.9	60
65	MP12	X	8.49	60
66	MP12	Z	-4.9	60

Member Point Loads (BLC 28 : Ice Wind Load AZI 330)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
1	MP1	X	6.19	47
2	MP1	Z	-10.72	47
3	MP1	X	6.19	90
4	MP1	Z	-10.72	90
5	MP3	X	11.47	6
6	MP3	Z	-19.88	6
7	MP3	X	11.47	90
8	MP3	Z	-19.88	90
9	MP4	X	11.47	6
10	MP4	Z	-19.88	6
11	MP4	X	11.47	90
12	MP4	Z	-19.88	90
13	MP1	X	3.07	60
14	MP1	Z	-5.31	60
15	MP1	X	3.07	60
16	MP1	Z	-5.31	60
17	MP3	X	4.35	60
18	MP3	Z	-7.54	60
19	MP4	X	4.71	60
20	MP4	Z	-8.17	60
21	MP4	X	4.79	60
22	MP4	Z	-8.3	60
23	MP5	X	5.26	47

Member Point Loads (BLC 28 : Ice Wind Load AZI 330) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
24	MP5	Z	-9.11	47
25	MP5	X	5.26	90
26	MP5	Z	-9.11	90
27	MP7	X	17.68	6
28	MP7	Z	-30.63	6
29	MP7	X	17.68	90
30	MP7	Z	-30.63	90
31	MP8	X	17.68	6
32	MP8	Z	-30.63	6
33	MP8	X	17.68	90
34	MP8	Z	-30.63	90
35	MP5	X	2.03	60
36	MP5	Z	-3.51	60
37	MP5	X	2.03	60
38	MP5	Z	-3.51	60
39	MP7	X	3.57	60
40	MP7	Z	-6.19	60
41	MP8	X	4.15	60
42	MP8	Z	-7.19	60
43	MP8	X	4.46	60
44	MP8	Z	-7.73	60
45	MP9	X	6.19	47
46	MP9	Z	-10.72	47
47	MP9	X	6.19	90
48	MP9	Z	-10.72	90
49	MP11	X	15.44	6
50	MP11	Z	-26.75	6
51	MP11	X	15.44	90
52	MP11	Z	-26.75	90
53	MP12	X	15.44	6
54	MP12	Z	-26.75	6
55	MP12	X	15.44	90
56	MP12	Z	-26.75	90
57	MP9	X	3.07	60
58	MP9	Z	-5.31	60
59	MP9	X	3.07	60
60	MP9	Z	-5.31	60
61	MP11	X	4.35	60
62	MP11	Z	-7.54	60
63	MP12	X	4.71	60
64	MP12	Z	-8.17	60
65	MP12	X	4.79	60
66	MP12	Z	-8.3	60

Member Point Loads (BLC 31 : Seismic Load Z)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[in, %]
1	MP1	Z	-1.605	47
2	MP1	Z	-1.605	90
3	MP3	Z	-4.389	6
4	MP3	Z	-4.389	90
5	MP4	Z	-4.389	6
6	MP4	Z	-4.389	90
7	MP1	Z	-1.293	60
8	MP1	Z	-1.293	60
9	MP3	Z	-5.495	60
10	MP4	Z	-6.421	60

Member Point Loads (BLC 31 : Seismic Load Z) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
11	MP4	Z	-6.88	60
12	MP5	Z	-1.605	47
13	MP5	Z	-1.605	90
14	MP7	Z	-4.389	6
15	MP7	Z	-4.389	90
16	MP8	Z	-4.389	6
17	MP8	Z	-4.389	90
18	MP5	Z	-1.293	60
19	MP5	Z	-1.293	60
20	MP7	Z	-5.495	60
21	MP8	Z	-6.421	60
22	MP8	Z	-6.88	60
23	MP9	Z	-1.605	47
24	MP9	Z	-1.605	90
25	MP11	Z	-4.389	6
26	MP11	Z	-4.389	90
27	MP12	Z	-4.389	6
28	MP12	Z	-4.389	90
29	MP9	Z	-1.293	60
30	MP9	Z	-1.293	60
31	MP11	Z	-5.495	60
32	MP12	Z	-6.421	60
33	MP12	Z	-6.88	60

Member Point Loads (BLC 32 : Seismic Load X)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP1	X	-1.605	47
2	MP1	X	-1.605	90
3	MP3	X	-4.389	6
4	MP3	X	-4.389	90
5	MP4	X	-4.389	6
6	MP4	X	-4.389	90
7	MP1	X	-1.293	60
8	MP1	X	-1.293	60
9	MP3	X	-5.495	60
10	MP4	X	-6.421	60
11	MP4	X	-6.88	60
12	MP5	X	-1.605	47
13	MP5	X	-1.605	90
14	MP7	X	-4.389	6
15	MP7	X	-4.389	90
16	MP8	X	-4.389	6
17	MP8	X	-4.389	90
18	MP5	X	-1.293	60
19	MP5	X	-1.293	60
20	MP7	X	-5.495	60
21	MP8	X	-6.421	60
22	MP8	X	-6.88	60
23	MP9	X	-1.605	47
24	MP9	X	-1.605	90
25	MP11	X	-4.389	6
26	MP11	X	-4.389	90
27	MP12	X	-4.389	6
28	MP12	X	-4.389	90
29	MP9	X	-1.293	60
30	MP9	X	-1.293	60

Member Point Loads (BLC 32 : Seismic Load X) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in, %]
31	MP11	X	-5.495	60
32	MP12	X	-6.421	60
33	MP12	X	-6.88	60

Member Distributed Loads (BLC 14 : Distr. Wind Load Z)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in, %]	End Location[in, %]
1	M1	SZ	-72.822	-72.822	0	%100
2	M2	SZ	-72.822	-72.822	0	%100
3	M3	SZ	-72.822	-72.822	0	%100
4	M4	SZ	-72.822	-72.822	0	%100
5	M5	SZ	-72.822	-72.822	0	%100
6	M6	SZ	-72.822	-72.822	0	%100
7	M7	SZ	-72.822	-72.822	0	%100
8	M8	SZ	-72.822	-72.822	0	%100
9	M9	SZ	-72.822	-72.822	0	%100
10	M10	SZ	-72.822	-72.822	0	%100
11	M11	SZ	-72.822	-72.822	0	%100
12	M12	SZ	-72.822	-72.822	0	%100
13	M13	SZ	-72.822	-72.822	0	%100
14	M14	SZ	-121.37	-121.37	0	%100
15	M15	SZ	-121.37	-121.37	0	%100
16	M16	SZ	-72.822	-72.822	0	%100
17	M17	SZ	-72.822	-72.822	0	%100
18	M18	SZ	-72.822	-72.822	0	%100
19	M19	SZ	-72.822	-72.822	0	%100
20	M20	SZ	-72.822	-72.822	0	%100
21	M21	SZ	-72.822	-72.822	0	%100
22	M22	SZ	-72.822	-72.822	0	%100
23	M23	SZ	-72.822	-72.822	0	%100
24	M24	SZ	-72.822	-72.822	0	%100
25	M25	SZ	0	0	0	%100
26	M26	SZ	0	0	0	%100
27	M27	SZ	0	0	0	%100
28	M28	SZ	0	0	0	%100
29	M29	SZ	0	0	0	%100
30	M30	SZ	0	0	0	%100
31	M31	SZ	-72.822	-72.822	0	%100
32	M32	SZ	-72.822	-72.822	0	%100
33	M33	SZ	-72.822	-72.822	0	%100
34	M34	SZ	-72.822	-72.822	0	%100
35	M35	SZ	-72.822	-72.822	0	%100
36	M36	SZ	-72.822	-72.822	0	%100
37	M37	SZ	-72.822	-72.822	0	%100
38	M38	SZ	-72.822	-72.822	0	%100
39	M39	SZ	-72.822	-72.822	0	%100
40	M40	SZ	-72.822	-72.822	0	%100
41	M41	SZ	-72.822	-72.822	0	%100
42	M42	SZ	-72.822	-72.822	0	%100
43	M43	SZ	-72.822	-72.822	0	%100
44	M44	SZ	-121.37	-121.37	0	%100
45	M45	SZ	-121.37	-121.37	0	%100
46	M46	SZ	-72.822	-72.822	0	%100
47	M47	SZ	-72.822	-72.822	0	%100
48	M48	SZ	-72.822	-72.822	0	%100
49	M49	SZ	-72.822	-72.822	0	%100

Member Distributed Loads (BLC 14 : Distr. Wind Load Z) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in,%]	End Location[in,%]
50	M50	SZ	-72.822	-72.822	0 %100
51	M51	SZ	-72.822	-72.822	0 %100
52	M52	SZ	-72.822	-72.822	0 %100
53	M53	SZ	-72.822	-72.822	0 %100
54	M54	SZ	-72.822	-72.822	0 %100
55	M55	SZ	-72.822	-72.822	0 %100
56	M56	SZ	0	0	0 %100
57	M57	SZ	0	0	0 %100
58	M58	SZ	0	0	0 %100
59	M59	SZ	0	0	0 %100
60	M60	SZ	0	0	0 %100
61	M61	SZ	0	0	0 %100
62	M62	SZ	-72.822	-72.822	0 %100
63	M63	SZ	-72.822	-72.822	0 %100
64	M64	SZ	-72.822	-72.822	0 %100
65	M65	SZ	-72.822	-72.822	0 %100
66	M66	SZ	-72.822	-72.822	0 %100
67	M67	SZ	-72.822	-72.822	0 %100
68	M68	SZ	-72.822	-72.822	0 %100
69	M69	SZ	-72.822	-72.822	0 %100
70	M70	SZ	-72.822	-72.822	0 %100
71	M71	SZ	-72.822	-72.822	0 %100
72	M72	SZ	-72.822	-72.822	0 %100
73	M73	SZ	-72.822	-72.822	0 %100
74	M74	SZ	-72.822	-72.822	0 %100
75	M75	SZ	-121.37	-121.37	0 %100
76	M76	SZ	-121.37	-121.37	0 %100
77	M77	SZ	-72.822	-72.822	0 %100
78	M78	SZ	-72.822	-72.822	0 %100
79	M79	SZ	-72.822	-72.822	0 %100
80	M80	SZ	-72.822	-72.822	0 %100
81	M81	SZ	-72.822	-72.822	0 %100
82	M82	SZ	-72.822	-72.822	0 %100
83	M83	SZ	-72.822	-72.822	0 %100
84	M84	SZ	-72.822	-72.822	0 %100
85	M85	SZ	-72.822	-72.822	0 %100
86	M86	SZ	-72.822	-72.822	0 %100
87	M87	SZ	0	0	0 %100
88	M88	SZ	0	0	0 %100
89	M89	SZ	0	0	0 %100
90	M90	SZ	0	0	0 %100
91	M91	SZ	0	0	0 %100
92	M92	SZ	0	0	0 %100
93	M93	SZ	-121.37	-121.37	0 %100
94	M94	SZ	-121.37	-121.37	0 %100
95	M95	SZ	-121.37	-121.37	0 %100
96	M96	SZ	-72.822	-72.822	0 %100
97	MP1	SZ	-72.822	-72.822	0 %100
98	MP2	SZ	-72.822	-72.822	0 %100
99	MP3	SZ	-72.822	-72.822	0 %100
100	MP4	SZ	-72.822	-72.822	0 %100
101	MP5	SZ	-72.822	-72.822	0 %100
102	MP6	SZ	-72.822	-72.822	0 %100
103	MP7	SZ	-72.822	-72.822	0 %100
104	MP8	SZ	-72.822	-72.822	0 %100
105	MP9	SZ	-72.822	-72.822	0 %100
106	MP10	SZ	-72.822	-72.822	0 %100

Member Distributed Loads (BLC 14 : Distr. Wind Load Z) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in, %]	End Location[in, %]
107	MP11	SZ	-72.822	-72.822	0	%100
108	MP12	SZ	-72.822	-72.822	0	%100
109	M109	SZ	-72.822	-72.822	0	%100
110	M110	SZ	-72.822	-72.822	0	%100
111	M111	SZ	-72.822	-72.822	0	%100
112	M112	SZ	0	0	0	%100
113	M113	SZ	0	0	0	%100
114	M114	SZ	0	0	0	%100

Member Distributed Loads (BLC 15 : Distr. Wind Load X)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in, %]	End Location[in, %]
1	M1	SX	-72.822	-72.822	0	%100
2	M2	SX	-72.822	-72.822	0	%100
3	M3	SX	-72.822	-72.822	0	%100
4	M4	SX	-72.822	-72.822	0	%100
5	M5	SX	-72.822	-72.822	0	%100
6	M6	SX	-72.822	-72.822	0	%100
7	M7	SX	-72.822	-72.822	0	%100
8	M8	SX	-72.822	-72.822	0	%100
9	M9	SX	-72.822	-72.822	0	%100
10	M10	SX	-72.822	-72.822	0	%100
11	M11	SX	-72.822	-72.822	0	%100
12	M12	SX	-72.822	-72.822	0	%100
13	M13	SX	-72.822	-72.822	0	%100
14	M14	SX	-121.37	-121.37	0	%100
15	M15	SX	-121.37	-121.37	0	%100
16	M16	SX	-72.822	-72.822	0	%100
17	M17	SX	-72.822	-72.822	0	%100
18	M18	SX	-72.822	-72.822	0	%100
19	M19	SX	-72.822	-72.822	0	%100
20	M20	SX	-72.822	-72.822	0	%100
21	M21	SX	-72.822	-72.822	0	%100
22	M22	SX	-72.822	-72.822	0	%100
23	M23	SX	-72.822	-72.822	0	%100
24	M24	SX	-72.822	-72.822	0	%100
25	M25	SX	0	0	0	%100
26	M26	SX	0	0	0	%100
27	M27	SX	0	0	0	%100
28	M28	SX	0	0	0	%100
29	M29	SX	0	0	0	%100
30	M30	SX	0	0	0	%100
31	M31	SX	-72.822	-72.822	0	%100
32	M32	SX	-72.822	-72.822	0	%100
33	M33	SX	-72.822	-72.822	0	%100
34	M34	SX	-72.822	-72.822	0	%100
35	M35	SX	-72.822	-72.822	0	%100
36	M36	SX	-72.822	-72.822	0	%100
37	M37	SX	-72.822	-72.822	0	%100
38	M38	SX	-72.822	-72.822	0	%100
39	M39	SX	-72.822	-72.822	0	%100
40	M40	SX	-72.822	-72.822	0	%100
41	M41	SX	-72.822	-72.822	0	%100
42	M42	SX	-72.822	-72.822	0	%100
43	M43	SX	-72.822	-72.822	0	%100
44	M44	SX	-121.37	-121.37	0	%100
45	M45	SX	-121.37	-121.37	0	%100

Member Distributed Loads (BLC 15 : Distr. Wind Load X) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in,%]	End Location[in,%]
46	M46	-72.822	-72.822	0	%100
47	M47	-72.822	-72.822	0	%100
48	M48	-72.822	-72.822	0	%100
49	M49	-72.822	-72.822	0	%100
50	M50	-72.822	-72.822	0	%100
51	M51	-72.822	-72.822	0	%100
52	M52	-72.822	-72.822	0	%100
53	M53	-72.822	-72.822	0	%100
54	M54	-72.822	-72.822	0	%100
55	M55	-72.822	-72.822	0	%100
56	M56	0	0	0	%100
57	M57	0	0	0	%100
58	M58	0	0	0	%100
59	M59	0	0	0	%100
60	M60	0	0	0	%100
61	M61	0	0	0	%100
62	M62	-72.822	-72.822	0	%100
63	M63	-72.822	-72.822	0	%100
64	M64	-72.822	-72.822	0	%100
65	M65	-72.822	-72.822	0	%100
66	M66	-72.822	-72.822	0	%100
67	M67	-72.822	-72.822	0	%100
68	M68	-72.822	-72.822	0	%100
69	M69	-72.822	-72.822	0	%100
70	M70	-72.822	-72.822	0	%100
71	M71	-72.822	-72.822	0	%100
72	M72	-72.822	-72.822	0	%100
73	M73	-72.822	-72.822	0	%100
74	M74	-72.822	-72.822	0	%100
75	M75	-121.37	-121.37	0	%100
76	M76	-121.37	-121.37	0	%100
77	M77	-72.822	-72.822	0	%100
78	M78	-72.822	-72.822	0	%100
79	M79	-72.822	-72.822	0	%100
80	M80	-72.822	-72.822	0	%100
81	M81	-72.822	-72.822	0	%100
82	M82	-72.822	-72.822	0	%100
83	M83	-72.822	-72.822	0	%100
84	M84	-72.822	-72.822	0	%100
85	M85	-72.822	-72.822	0	%100
86	M86	-72.822	-72.822	0	%100
87	M87	0	0	0	%100
88	M88	0	0	0	%100
89	M89	0	0	0	%100
90	M90	0	0	0	%100
91	M91	0	0	0	%100
92	M92	0	0	0	%100
93	M93	-121.37	-121.37	0	%100
94	M94	-121.37	-121.37	0	%100
95	M95	-121.37	-121.37	0	%100
96	M96	-72.822	-72.822	0	%100
97	MP1	-72.822	-72.822	0	%100
98	MP2	-72.822	-72.822	0	%100
99	MP3	-72.822	-72.822	0	%100
100	MP4	-72.822	-72.822	0	%100
101	MP5	-72.822	-72.822	0	%100
102	MP6	-72.822	-72.822	0	%100

Member Distributed Loads (BLC 15 : Distr. Wind Load X) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
103	MP7	SX	-72.822	-72.822	0	%100
104	MP8	SX	-72.822	-72.822	0	%100
105	MP9	SX	-72.822	-72.822	0	%100
106	MP10	SX	-72.822	-72.822	0	%100
107	MP11	SX	-72.822	-72.822	0	%100
108	MP12	SX	-72.822	-72.822	0	%100
109	M109	SX	-72.822	-72.822	0	%100
110	M110	SX	-72.822	-72.822	0	%100
111	M111	SX	-72.822	-72.822	0	%100
112	M112	SX	0	0	0	%100
113	M113	SX	0	0	0	%100
114	M114	SX	0	0	0	%100

Member Distributed Loads (BLC 16 : Ice Weight)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	M1	Y	-4.372	-4.372	0	%100
2	M2	Y	-4.372	-4.372	0	%100
3	M3	Y	-4.372	-4.372	0	%100
4	M4	Y	-4.372	-4.372	0	%100
5	M5	Y	-4.372	-4.372	0	%100
6	M6	Y	-4.372	-4.372	0	%100
7	M7	Y	-4.372	-4.372	0	%100
8	M8	Y	-4.372	-4.372	0	%100
9	M9	Y	-4.372	-4.372	0	%100
10	M10	Y	-4.372	-4.372	0	%100
11	M11	Y	-4.372	-4.372	0	%100
12	M12	Y	-4.372	-4.372	0	%100
13	M13	Y	-4.372	-4.372	0	%100
14	M14	Y	-16.369	-16.369	0	%100
15	M15	Y	-16.369	-16.369	0	%100
16	M16	Y	-4.372	-4.372	0	%100
17	M17	Y	-4.372	-4.372	0	%100
18	M18	Y	-4.372	-4.372	0	%100
19	M19	Y	-4.372	-4.372	0	%100
20	M20	Y	-4.372	-4.372	0	%100
21	M21	Y	-4.372	-4.372	0	%100
22	M22	Y	-4.372	-4.372	0	%100
23	M23	Y	-4.372	-4.372	0	%100
24	M24	Y	-4.372	-4.372	0	%100
25	M25	Y	-2.949	-2.949	0	%100
26	M26	Y	-2.949	-2.949	0	%100
27	M27	Y	-2.949	-2.949	0	%100
28	M28	Y	-2.949	-2.949	0	%100
29	M29	Y	-2.949	-2.949	0	%100
30	M30	Y	-2.949	-2.949	0	%100
31	M31	Y	-4.372	-4.372	0	%100
32	M32	Y	-4.372	-4.372	0	%100
33	M33	Y	-4.372	-4.372	0	%100
34	M34	Y	-4.372	-4.372	0	%100
35	M35	Y	-4.372	-4.372	0	%100
36	M36	Y	-4.372	-4.372	0	%100
37	M37	Y	-4.372	-4.372	0	%100
38	M38	Y	-4.372	-4.372	0	%100
39	M39	Y	-4.372	-4.372	0	%100
40	M40	Y	-4.372	-4.372	0	%100
41	M41	Y	-4.372	-4.372	0	%100

Member Distributed Loads (BLC 16 : Ice Weight) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in, %]	End Location[in, %]
42	M42	-4.372	-4.372	0	%100
43	M43	-4.372	-4.372	0	%100
44	M44	-16.369	-16.369	0	%100
45	M45	-16.369	-16.369	0	%100
46	M46	-4.372	-4.372	0	%100
47	M47	-4.372	-4.372	0	%100
48	M48	-4.372	-4.372	0	%100
49	M49	-4.372	-4.372	0	%100
50	M50	-4.372	-4.372	0	%100
51	M51	-4.372	-4.372	0	%100
52	M52	-4.372	-4.372	0	%100
53	M53	-4.372	-4.372	0	%100
54	M54	-4.372	-4.372	0	%100
55	M55	-11.489	-11.489	0	%100
56	M56	-2.949	-2.949	0	%100
57	M57	-2.949	-2.949	0	%100
58	M58	-2.949	-2.949	0	%100
59	M59	-2.949	-2.949	0	%100
60	M60	-2.949	-2.949	0	%100
61	M61	-2.949	-2.949	0	%100
62	M62	-4.372	-4.372	0	%100
63	M63	-4.372	-4.372	0	%100
64	M64	-4.372	-4.372	0	%100
65	M65	-4.372	-4.372	0	%100
66	M66	-4.372	-4.372	0	%100
67	M67	-4.372	-4.372	0	%100
68	M68	-4.372	-4.372	0	%100
69	M69	-4.372	-4.372	0	%100
70	M70	-4.372	-4.372	0	%100
71	M71	-4.372	-4.372	0	%100
72	M72	-4.372	-4.372	0	%100
73	M73	-4.372	-4.372	0	%100
74	M74	-4.372	-4.372	0	%100
75	M75	-16.369	-16.369	0	%100
76	M76	-16.369	-16.369	0	%100
77	M77	-4.372	-4.372	0	%100
78	M78	-4.372	-4.372	0	%100
79	M79	-4.372	-4.372	0	%100
80	M80	-4.372	-4.372	0	%100
81	M81	-4.372	-4.372	0	%100
82	M82	-4.372	-4.372	0	%100
83	M83	-4.372	-4.372	0	%100
84	M84	-4.372	-4.372	0	%100
85	M85	-4.372	-4.372	0	%100
86	M86	-11.489	-11.489	0	%100
87	M87	-2.949	-2.949	0	%100
88	M88	-2.949	-2.949	0	%100
89	M89	-2.949	-2.949	0	%100
90	M90	-2.949	-2.949	0	%100
91	M91	-2.949	-2.949	0	%100
92	M92	-2.949	-2.949	0	%100
93	M93	-14.376	-14.376	0	%100
94	M94	-14.376	-14.376	0	%100
95	M95	-14.376	-14.376	0	%100
96	M96	-11.489	-11.489	0	%100
97	MP1	-7.456	-7.456	0	%100
98	MP2	-7.456	-7.456	0	%100

Member Distributed Loads (BLC 16 : Ice Weight) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
99	MP3	Y	-8.405	-8.405	0	%100
100	MP4	Y	-8.405	-8.405	0	%100
101	MP5	Y	-7.456	-7.456	0	%100
102	MP6	Y	-7.456	-7.456	0	%100
103	MP7	Y	-8.405	-8.405	0	%100
104	MP8	Y	-8.405	-8.405	0	%100
105	MP9	Y	-7.456	-7.456	0	%100
106	MP10	Y	-7.456	-7.456	0	%100
107	MP11	Y	-8.405	-8.405	0	%100
108	MP12	Y	-8.405	-8.405	0	%100
109	M109	Y	-7.456	-7.456	0	%100
110	M110	Y	-7.456	-7.456	0	%100
111	M111	Y	-7.456	-7.456	0	%100
112	M112	Y	-2.949	-2.949	0	%100
113	M113	Y	-2.949	-2.949	0	%100
114	M114	Y	-2.949	-2.949	0	%100

Member Distributed Loads (BLC 29 : Distr. Ice Wind Load Z)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	M1	SZ	-56.262	-56.262	0	%100
2	M2	SZ	-56.262	-56.262	0	%100
3	M3	SZ	-56.262	-56.262	0	%100
4	M4	SZ	-56.262	-56.262	0	%100
5	M5	SZ	-56.262	-56.262	0	%100
6	M6	SZ	-56.262	-56.262	0	%100
7	M7	SZ	-56.262	-56.262	0	%100
8	M8	SZ	-56.262	-56.262	0	%100
9	M9	SZ	-56.262	-56.262	0	%100
10	M10	SZ	-56.262	-56.262	0	%100
11	M11	SZ	-56.262	-56.262	0	%100
12	M12	SZ	-56.262	-56.262	0	%100
13	M13	SZ	-56.262	-56.262	0	%100
14	M14	SZ	-15.747	-15.747	0	%100
15	M15	SZ	-15.747	-15.747	0	%100
16	M16	SZ	-56.262	-56.262	0	%100
17	M17	SZ	-56.262	-56.262	0	%100
18	M18	SZ	-56.262	-56.262	0	%100
19	M19	SZ	-56.262	-56.262	0	%100
20	M20	SZ	-56.262	-56.262	0	%100
21	M21	SZ	-56.262	-56.262	0	%100
22	M22	SZ	-56.262	-56.262	0	%100
23	M23	SZ	-56.262	-56.262	0	%100
24	M24	SZ	-56.262	-56.262	0	%100
25	M25	SZ	0	0	0	%100
26	M26	SZ	0	0	0	%100
27	M27	SZ	0	0	0	%100
28	M28	SZ	0	0	0	%100
29	M29	SZ	0	0	0	%100
30	M30	SZ	0	0	0	%100
31	M31	SZ	-56.262	-56.262	0	%100
32	M32	SZ	-56.262	-56.262	0	%100
33	M33	SZ	-56.262	-56.262	0	%100
34	M34	SZ	-56.262	-56.262	0	%100
35	M35	SZ	-56.262	-56.262	0	%100
36	M36	SZ	-56.262	-56.262	0	%100
37	M37	SZ	-56.262	-56.262	0	%100

Member Distributed Loads (BLC 29 : Distr. Ice Wind Load Z) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in,%]	End Location[in,%]
38	M38	SZ	-56.262	-56.262	0 %100
39	M39	SZ	-56.262	-56.262	0 %100
40	M40	SZ	-56.262	-56.262	0 %100
41	M41	SZ	-56.262	-56.262	0 %100
42	M42	SZ	-56.262	-56.262	0 %100
43	M43	SZ	-56.262	-56.262	0 %100
44	M44	SZ	-15.747	-15.747	0 %100
45	M45	SZ	-15.747	-15.747	0 %100
46	M46	SZ	-56.262	-56.262	0 %100
47	M47	SZ	-56.262	-56.262	0 %100
48	M48	SZ	-56.262	-56.262	0 %100
49	M49	SZ	-56.262	-56.262	0 %100
50	M50	SZ	-56.262	-56.262	0 %100
51	M51	SZ	-56.262	-56.262	0 %100
52	M52	SZ	-56.262	-56.262	0 %100
53	M53	SZ	-56.262	-56.262	0 %100
54	M54	SZ	-56.262	-56.262	0 %100
55	M55	SZ	-18.494	-18.494	0 %100
56	M56	SZ	0	0	0 %100
57	M57	SZ	0	0	0 %100
58	M58	SZ	0	0	0 %100
59	M59	SZ	0	0	0 %100
60	M60	SZ	0	0	0 %100
61	M61	SZ	0	0	0 %100
62	M62	SZ	-56.262	-56.262	0 %100
63	M63	SZ	-56.262	-56.262	0 %100
64	M64	SZ	-56.262	-56.262	0 %100
65	M65	SZ	-56.262	-56.262	0 %100
66	M66	SZ	-56.262	-56.262	0 %100
67	M67	SZ	-56.262	-56.262	0 %100
68	M68	SZ	-56.262	-56.262	0 %100
69	M69	SZ	-56.262	-56.262	0 %100
70	M70	SZ	-56.262	-56.262	0 %100
71	M71	SZ	-56.262	-56.262	0 %100
72	M72	SZ	-56.262	-56.262	0 %100
73	M73	SZ	-56.262	-56.262	0 %100
74	M74	SZ	-56.262	-56.262	0 %100
75	M75	SZ	-15.747	-15.747	0 %100
76	M76	SZ	-15.747	-15.747	0 %100
77	M77	SZ	-56.262	-56.262	0 %100
78	M78	SZ	-56.262	-56.262	0 %100
79	M79	SZ	-56.262	-56.262	0 %100
80	M80	SZ	-56.262	-56.262	0 %100
81	M81	SZ	-56.262	-56.262	0 %100
82	M82	SZ	-56.262	-56.262	0 %100
83	M83	SZ	-56.262	-56.262	0 %100
84	M84	SZ	-56.262	-56.262	0 %100
85	M85	SZ	-56.262	-56.262	0 %100
86	M86	SZ	-18.494	-18.494	0 %100
87	M87	SZ	0	0	0 %100
88	M88	SZ	0	0	0 %100
89	M89	SZ	0	0	0 %100
90	M90	SZ	0	0	0 %100
91	M91	SZ	0	0	0 %100
92	M92	SZ	0	0	0 %100
93	M93	SZ	-16.586	-16.586	0 %100
94	M94	SZ	-16.586	-16.586	0 %100

Member Distributed Loads (BLC 29 : Distr. Ice Wind Load Z) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
95	M95	SZ	-16.586	-16.586	0	%100
96	M96	SZ	-18.494	-18.494	0	%100
97	MP1	SZ	-25.252	-25.252	0	%100
98	MP2	SZ	-25.252	-25.252	0	%100
99	MP3	SZ	-22.763	-22.763	0	%100
100	MP4	SZ	-22.763	-22.763	0	%100
101	MP5	SZ	-25.252	-25.252	0	%100
102	MP6	SZ	-25.252	-25.252	0	%100
103	MP7	SZ	-22.763	-22.763	0	%100
104	MP8	SZ	-22.763	-22.763	0	%100
105	MP9	SZ	-25.252	-25.252	0	%100
106	MP10	SZ	-25.252	-25.252	0	%100
107	MP11	SZ	-22.763	-22.763	0	%100
108	MP12	SZ	-22.763	-22.763	0	%100
109	M109	SZ	-25.252	-25.252	0	%100
110	M110	SZ	-25.252	-25.252	0	%100
111	M111	SZ	-25.252	-25.252	0	%100
112	M112	SZ	0	0	0	%100
113	M113	SZ	0	0	0	%100
114	M114	SZ	0	0	0	%100

Member Distributed Loads (BLC 30 : Distr. Ice Wind Load X)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	M1	SX	-56.262	-56.262	0	%100
2	M2	SX	-56.262	-56.262	0	%100
3	M3	SX	-56.262	-56.262	0	%100
4	M4	SX	-56.262	-56.262	0	%100
5	M5	SX	-56.262	-56.262	0	%100
6	M6	SX	-56.262	-56.262	0	%100
7	M7	SX	-56.262	-56.262	0	%100
8	M8	SX	-56.262	-56.262	0	%100
9	M9	SX	-56.262	-56.262	0	%100
10	M10	SX	-56.262	-56.262	0	%100
11	M11	SX	-56.262	-56.262	0	%100
12	M12	SX	-56.262	-56.262	0	%100
13	M13	SX	-56.262	-56.262	0	%100
14	M14	SX	-15.747	-15.747	0	%100
15	M15	SX	-15.747	-15.747	0	%100
16	M16	SX	-56.262	-56.262	0	%100
17	M17	SX	-56.262	-56.262	0	%100
18	M18	SX	-56.262	-56.262	0	%100
19	M19	SX	-56.262	-56.262	0	%100
20	M20	SX	-56.262	-56.262	0	%100
21	M21	SX	-56.262	-56.262	0	%100
22	M22	SX	-56.262	-56.262	0	%100
23	M23	SX	-56.262	-56.262	0	%100
24	M24	SX	-56.262	-56.262	0	%100
25	M25	SX	0	0	0	%100
26	M26	SX	0	0	0	%100
27	M27	SX	0	0	0	%100
28	M28	SX	0	0	0	%100
29	M29	SX	0	0	0	%100
30	M30	SX	0	0	0	%100
31	M31	SX	-56.262	-56.262	0	%100
32	M32	SX	-56.262	-56.262	0	%100
33	M33	SX	-56.262	-56.262	0	%100

Member Distributed Loads (BLC 30 : Distr. Ice Wind Load X) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
34	M34	SX	-56.262	-56.262	0 %100
35	M35	SX	-56.262	-56.262	0 %100
36	M36	SX	-56.262	-56.262	0 %100
37	M37	SX	-56.262	-56.262	0 %100
38	M38	SX	-56.262	-56.262	0 %100
39	M39	SX	-56.262	-56.262	0 %100
40	M40	SX	-56.262	-56.262	0 %100
41	M41	SX	-56.262	-56.262	0 %100
42	M42	SX	-56.262	-56.262	0 %100
43	M43	SX	-56.262	-56.262	0 %100
44	M44	SX	-15.747	-15.747	0 %100
45	M45	SX	-15.747	-15.747	0 %100
46	M46	SX	-56.262	-56.262	0 %100
47	M47	SX	-56.262	-56.262	0 %100
48	M48	SX	-56.262	-56.262	0 %100
49	M49	SX	-56.262	-56.262	0 %100
50	M50	SX	-56.262	-56.262	0 %100
51	M51	SX	-56.262	-56.262	0 %100
52	M52	SX	-56.262	-56.262	0 %100
53	M53	SX	-56.262	-56.262	0 %100
54	M54	SX	-56.262	-56.262	0 %100
55	M55	SX	-18.494	-18.494	0 %100
56	M56	SX	0	0	0 %100
57	M57	SX	0	0	0 %100
58	M58	SX	0	0	0 %100
59	M59	SX	0	0	0 %100
60	M60	SX	0	0	0 %100
61	M61	SX	0	0	0 %100
62	M62	SX	-56.262	-56.262	0 %100
63	M63	SX	-56.262	-56.262	0 %100
64	M64	SX	-56.262	-56.262	0 %100
65	M65	SX	-56.262	-56.262	0 %100
66	M66	SX	-56.262	-56.262	0 %100
67	M67	SX	-56.262	-56.262	0 %100
68	M68	SX	-56.262	-56.262	0 %100
69	M69	SX	-56.262	-56.262	0 %100
70	M70	SX	-56.262	-56.262	0 %100
71	M71	SX	-56.262	-56.262	0 %100
72	M72	SX	-56.262	-56.262	0 %100
73	M73	SX	-56.262	-56.262	0 %100
74	M74	SX	-56.262	-56.262	0 %100
75	M75	SX	-15.747	-15.747	0 %100
76	M76	SX	-15.747	-15.747	0 %100
77	M77	SX	-56.262	-56.262	0 %100
78	M78	SX	-56.262	-56.262	0 %100
79	M79	SX	-56.262	-56.262	0 %100
80	M80	SX	-56.262	-56.262	0 %100
81	M81	SX	-56.262	-56.262	0 %100
82	M82	SX	-56.262	-56.262	0 %100
83	M83	SX	-56.262	-56.262	0 %100
84	M84	SX	-56.262	-56.262	0 %100
85	M85	SX	-56.262	-56.262	0 %100
86	M86	SX	-18.494	-18.494	0 %100
87	M87	SX	0	0	0 %100
88	M88	SX	0	0	0 %100
89	M89	SX	0	0	0 %100
90	M90	SX	0	0	0 %100

Member Distributed Loads (BLC 30 : Distr. Ice Wind Load X) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
91	M91	SX	0	0	0	%100
92	M92	SX	0	0	0	%100
93	M93	SX	-16.586	-16.586	0	%100
94	M94	SX	-16.586	-16.586	0	%100
95	M95	SX	-16.586	-16.586	0	%100
96	M96	SX	-18.494	-18.494	0	%100
97	MP1	SX	-25.252	-25.252	0	%100
98	MP2	SX	-25.252	-25.252	0	%100
99	MP3	SX	-22.763	-22.763	0	%100
100	MP4	SX	-22.763	-22.763	0	%100
101	MP5	SX	-25.252	-25.252	0	%100
102	MP6	SX	-25.252	-25.252	0	%100
103	MP7	SX	-22.763	-22.763	0	%100
104	MP8	SX	-22.763	-22.763	0	%100
105	MP9	SX	-25.252	-25.252	0	%100
106	MP10	SX	-25.252	-25.252	0	%100
107	MP11	SX	-22.763	-22.763	0	%100
108	MP12	SX	-22.763	-22.763	0	%100
109	M109	SX	-25.252	-25.252	0	%100
110	M110	SX	-25.252	-25.252	0	%100
111	M111	SX	-25.252	-25.252	0	%100
112	M112	SX	0	0	0	%100
113	M113	SX	0	0	0	%100
114	M114	SX	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	M31	Y	.173	-.092	85.5	102.6
2	M31	Y	-.092	-2.633	102.6	119.7
3	M31	Y	-2.633	-6.291	119.7	136.8
4	M31	Y	-6.291	-9.053	136.8	153.9
5	M47	Y	3.899	3.47	46.2	50.16
6	M47	Y	3.47	-.777	50.16	54.12
7	M47	Y	-.777	-7.157	54.12	58.08
8	M47	Y	-7.157	-48.711	58.08	62.04
9	M47	Y	-48.711	-126.697	62.04	66
10	M48	Y	-.631	-6.501	0	4.333
11	M48	Y	-6.501	-8.393	4.333	8.667
12	M48	Y	-8.393	-.631	8.667	13
13	M49	Y	-4.099e-16	-.648	0	2.6
14	M49	Y	-.648	-2.92	2.6	5.2
15	M49	Y	-2.92	-3.536	5.2	7.8
16	M49	Y	-3.536	-1.264	7.8	10.4
17	M49	Y	-1.264	-4.099e-16	10.4	13
18	M60	Y	-.24	-.24	0	4.514
19	M61	Y	-27.488	-27.488	0	4.514
20	M62	Y	-6.429	-5.599	17.1	34.2
21	M62	Y	-5.599	-2.831	34.2	51.3
22	M62	Y	-2.831	-.213	51.3	68.4
23	M62	Y	-.213	.052	68.4	85.5
24	M77	Y	6.014	3.694	0	3.25
25	M77	Y	3.694	-2.569	3.25	6.5
26	M77	Y	-2.569	-54.626	6.5	9.75
27	M77	Y	-54.626	-150.857	9.75	13
28	M78	Y	-21.479	-17.623	0	3.96
29	M78	Y	-17.623	-12.281	3.96	7.92

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,%]
30	M78	-12.281	-4.766	7.92	11.88
31	M78	-4.766	-.236	11.88	15.84
32	M78	-.236	.193	15.84	19.8
33	M81	2.05e-16	-.227	0	2.6
34	M81	-.227	-2.922	2.6	5.2
35	M81	-2.922	-3.958	5.2	7.8
36	M81	-3.958	-1.263	7.8	10.4
37	M81	-1.263	2.05e-16	10.4	13
38	M87	-30.179	-30.179	0	4.514
39	M88	-.233	-.233	0	4.514
40	M47	-.29	-2.636	33	39.6
41	M47	-2.636	-6.865	39.6	46.2
42	M47	-6.865	-10.362	46.2	52.8
43	M47	-10.362	-9.081	52.8	59.4
44	M47	-9.081	-3.286	59.4	66
45	M49	.21	-.431	0	4.333
46	M49	-.431	-2.332	4.333	8.667
47	M49	-2.332	-4.854	8.667	13
48	M51	1.333	1.333	4.8	7.2
49	M51	.667	-3.333	7.2	9.6
50	M51	-3.333	-11.332	9.6	12
51	M52	-7.852	-9.463	0	3.5
52	M52	-9.463	-10.845	3.5	7
53	M52	-10.845	-13.483	7	10.5
54	M52	-13.483	-20.312	10.5	14
55	M52	-20.312	-29.845	14	17.5
56	M59	-.47	-.47	0	3.532
57	M78	-4.253	-9.041	0	6.6
58	M78	-9.041	-9.986	6.6	13.2
59	M78	-9.986	-6.598	13.2	19.8
60	M78	-6.598	-2.449	19.8	26.4
61	M78	-2.449	-.239	26.4	33
62	M81	.211	-.429	0	4.333
63	M81	-.429	-2.333	4.333	8.667
64	M81	-2.333	-4.862	8.667	13
65	M82	-12.454	-3.663	0	2.4
66	M82	-3.663	.733	2.4	4.8
67	M82	1.465	1.465	4.8	7.2
68	M84	-12.021	-12.021	5.988	12
69	M85	-7.058	-15.603	0	3.5
70	M85	-15.603	-17.292	3.5	7
71	M85	-17.292	-12.865	7	10.5
72	M85	-12.865	-10.385	10.5	14
73	M85	-10.385	-9.112	14	17.5
74	M89	-.47	-.47	0	3.532
75	M17	-3.286	-9.081	0	6.6
76	M17	-9.081	-10.454	6.6	13.2
77	M17	-10.454	-6.978	13.2	19.8
78	M17	-6.978	-2.658	19.8	26.4
79	M17	-2.658	-.29	26.4	33
80	M20	.181	-.462	0	4.333
81	M20	-.462	-2.191	4.333	8.667
82	M20	-2.191	-4.363	8.667	13
83	M21	-11.331	-3.333	0	2.4
84	M21	-3.333	.667	2.4	4.8
85	M21	1.399	1.399	4.8	7.2
86	M23	-6.613	-6.613	5.988	12

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, %]
87	M24	-13.341	-15.168	0	3.5
88	M24	-15.168	-14.267	3.5	7
89	M24	-14.267	-11.341	7	10.5
90	M24	-11.341	-9.75	10.5	14
91	M24	-9.75	-8.792	14	17.5
92	M26	-.236	-.236	0	4.514
93	M27	-.47	-.47	0	3.532
94	M78	-.239	-2.47	33	39.6
95	M78	-2.47	-6.712	39.6	46.2
96	M78	-6.712	-10.079	46.2	52.8
97	M78	-10.079	-9.041	52.8	59.4
98	M78	-9.041	-4.253	59.4	66
99	M80	-.061	-.318	0	3.25
100	M80	-.318	-2.015	3.25	6.5
101	M80	-2.015	-2.968	6.5	9.75
102	M80	-2.968	-1.994	9.75	13
103	M82	.733	-3.663	7.2	9.6
104	M82	-3.663	-12.454	9.6	12
105	M83	-8.05	-9.343	0	3.5
106	M83	-9.343	-11.844	3.5	7
107	M83	-11.844	-16.271	7	10.5
108	M83	-16.271	-24.896	10.5	14
109	M83	-24.896	-37	14	17.5
110	M90	-.47	-.47	0	3.532
111	M91	-.229	-.229	0	4.514
112	M1	-8.875	-6.244	17.1	34.2
113	M1	-6.244	-2.647	34.2	51.3
114	M1	-2.647	-.101	51.3	68.4
115	M1	-.101	.164	68.4	85.5
116	M16	5.071	-.797	0	4.333
117	M16	-.797	-37.093	4.333	8.667
118	M16	-37.093	-97.949	8.667	13
119	M17	-16.282	-14.441	0	3.96
120	M17	-14.441	-10.96	3.96	7.92
121	M17	-10.96	-4.583	7.92	11.88
122	M17	-4.583	-.337	11.88	15.84
123	M17	-.337	.092	15.84	19.8
124	M20	2.05e-16	-.669	0	2.6
125	M20	-.669	-2.917	2.6	5.2
126	M20	-2.917	-3.516	5.2	7.8
127	M20	-3.516	-1.269	7.8	10.4
128	M20	-1.269	2.05e-16	10.4	13
129	M25	-31.38	-31.38	0	4.514
130	M62	.461	-.305	85.5	108.3
131	M62	-.305	-3.841	108.3	131.1
132	M62	-3.841	-9.581	131.1	153.9
133	M78	4.337	3.908	46.2	50.16
134	M78	3.908	-.576	50.16	54.12
135	M78	-.576	-7.041	54.12	58.08
136	M78	-7.041	-52.82	58.08	62.04
137	M78	-52.82	-139.563	62.04	66
138	M79	-.15	-5.892	0	4.333
139	M79	-5.892	-10.734	4.333	8.667
140	M79	-10.734	-8.935	8.667	13
141	M80	-2.05e-16	-.225	0	2.6
142	M80	-.225	-2.917	2.6	5.2
143	M80	-2.917	-3.961	5.2	7.8

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, %]
144	M80	-3.961	-1.269	7.8	10.4
145	M80	-1.269	-2.05e-16	10.4	13
146	M92	-29.703	-29.703	0	4.514
147	M17	-.239	-2.445	33	39.6
148	M17	-2.445	-6.593	39.6	46.2
149	M17	-6.593	-9.983	46.2	52.8
150	M17	-9.983	-9.039	52.8	59.4
151	M17	-9.039	-4.255	59.4	66
152	M19	.212	-.428	0	4.333
153	M19	-.428	-2.339	4.333	8.667
154	M19	-2.339	-4.879	8.667	13
155	M21	.733	-3.663	7.2	9.6
156	M21	-3.663	-12.454	9.6	12
157	M22	-8.049	-9.339	0	3.5
158	M22	-9.339	-11.836	3.5	7
159	M22	-11.836	-16.261	7	10.5
160	M22	-16.261	-24.908	10.5	14
161	M22	-24.908	-37.055	14	17.5
162	M28	-.47	-.47	0	3.532
163	M29	-.233	-.233	0	4.514
164	M47	-3.294	-9.082	0	6.6
165	M47	-9.082	-10.45	6.6	13.2
166	M47	-10.45	-6.975	13.2	19.8
167	M47	-6.975	-2.657	19.8	26.4
168	M47	-2.657	-.289	26.4	33
169	M50	.182	-.462	0	4.333
170	M50	-.462	-2.195	4.333	8.667
171	M50	-2.195	-4.374	8.667	13
172	M51	-11.333	-3.333	0	2.4
173	M51	-3.333	.667	2.4	4.8
174	M53	-6.609	-6.609	5.988	12
175	M54	-13.372	-15.168	0	3.5
176	M54	-15.168	-14.254	3.5	7
177	M54	-14.254	-11.342	7	10.5
178	M54	-11.342	-9.749	10.5	14
179	M54	-9.749	-8.764	14	17.5
180	M57	-.236	-.236	0	4.514
181	M58	-.47	-.47	0	3.532
182	M1	.392	-.48	85.5	108.3
183	M1	-.48	-3.706	108.3	131.1
184	M1	-3.706	-8.619	131.1	153.9
185	M17	4.715	4.286	46.2	50.16
186	M17	4.286	.039	50.16	54.12
187	M17	.039	-6.323	54.12	58.08
188	M17	-6.323	-56.012	58.08	62.04
189	M17	-56.012	-150.303	62.04	66
190	M18	-.62	-6.394	0	4.333
191	M18	-6.394	-8.255	4.333	8.667
192	M18	-8.255	-.62	8.667	13
193	M19	-2.05e-16	-.227	0	2.6
194	M19	-.227	-2.922	2.6	5.2
195	M19	-2.922	-3.958	5.2	7.8
196	M19	-3.958	-1.263	7.8	10.4
197	M19	-1.263	-2.05e-16	10.4	13
198	M30	-45.954	-45.954	0	4.514
199	M31	-10.004	-4.021	17.1	39.9
200	M31	-4.021	-.325	39.9	62.7

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,%]
201	M31	Y	-.325	.482	62.7	85.5
202	M46	Y	4.3	1.979	0	3.25
203	M46	Y	1.979	-4.502	3.25	6.5
204	M46	Y	-4.502	-43.061	6.5	9.75
205	M46	Y	-43.061	-111.858	9.75	13
206	M47	Y	-23.968	-17.01	0	3.96
207	M47	Y	-17.01	-11.082	3.96	7.92
208	M47	Y	-11.082	-4.571	7.92	11.88
209	M47	Y	-4.571	-.081	11.88	15.84
210	M47	Y	-.081	.348	15.84	19.8
211	M50	Y	2.05e-16	-.669	0	2.6
212	M50	Y	-.669	-2.917	2.6	5.2
213	M50	Y	-2.917	-3.516	5.2	7.8
214	M50	Y	-3.516	-1.269	7.8	10.4
215	M50	Y	-1.269	2.05e-16	10.4	13
216	M56	Y	-25.596	-25.596	0	4.514

Member Distributed Loads (BLC 47 : BLC 16 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in,%]	End Location[in,%]
1	M31	Y	.25	-.134	85.5	102.6
2	M31	Y	-.134	-3.819	102.6	119.7
3	M31	Y	-3.819	-9.121	119.7	136.8
4	M31	Y	-9.121	-13.127	136.8	153.9
5	M47	Y	5.654	5.032	46.2	50.16
6	M47	Y	5.032	-1.127	50.16	54.12
7	M47	Y	-1.127	-10.378	54.12	58.08
8	M47	Y	-10.378	-70.632	58.08	62.04
9	M47	Y	-70.632	-183.71	62.04	66
10	M48	Y	-.914	-9.426	0	4.333
11	M48	Y	-9.426	-12.169	4.333	8.667
12	M48	Y	-12.169	-.914	8.667	13
13	M49	Y	0	-.94	0	2.6
14	M49	Y	-.94	-4.235	2.6	5.2
15	M49	Y	-4.235	-5.128	5.2	7.8
16	M49	Y	-5.128	-1.833	7.8	10.4
17	M49	Y	-1.833	0	10.4	13
18	M60	Y	-.348	-.348	0	4.514
19	M61	Y	-39.858	-39.858	0	4.514
20	M62	Y	-9.322	-8.119	17.1	34.2
21	M62	Y	-8.119	-4.105	34.2	51.3
22	M62	Y	-4.105	-.309	51.3	68.4
23	M62	Y	-.309	.075	68.4	85.5
24	M77	Y	8.721	5.356	0	3.25
25	M77	Y	5.356	-3.725	3.25	6.5
26	M77	Y	-3.725	-79.208	6.5	9.75
27	M77	Y	-79.208	-218.742	9.75	13
28	M78	Y	-31.145	-25.553	0	3.96
29	M78	Y	-25.553	-17.808	3.96	7.92
30	M78	Y	-17.808	-6.911	7.92	11.88
31	M78	Y	-6.911	-.342	11.88	15.84
32	M78	Y	-.342	.28	15.84	19.8
33	M81	Y	0	-.329	0	2.6
34	M81	Y	-.329	-4.236	2.6	5.2
35	M81	Y	-4.236	-5.739	5.2	7.8
36	M81	Y	-5.739	-1.832	7.8	10.4
37	M81	Y	-1.832	0	10.4	13

Member Distributed Loads (BLC 47 : BLC 16 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in,%]	End Location[in,%]
38	M87	-43.759	-43.759	0	4.514
39	M88	-.338	-.338	0	4.514
40	M47	-.42	-3.823	33	39.6
41	M47	-3.823	-9.954	39.6	46.2
42	M47	-9.954	-15.025	46.2	52.8
43	M47	-15.025	-13.167	52.8	59.4
44	M47	-13.167	-4.765	59.4	66
45	M49	.305	-.624	0	4.333
46	M49	-.624	-3.382	4.333	8.667
47	M49	-3.382	-7.038	8.667	13
48	M51	1.933	1.933	4.8	7.2
49	M51	.967	-4.833	7.2	9.6
50	M51	-4.833	-16.431	9.6	12
51	M52	-11.385	-13.721	0	3.5
52	M52	-13.721	-15.725	3.5	7
53	M52	-15.725	-19.551	7	10.5
54	M52	-19.551	-29.453	10.5	14
55	M52	-29.453	-43.275	14	17.5
56	M59	-.682	-.682	0	3.532
57	M78	-6.167	-13.109	0	6.6
58	M78	-13.109	-14.48	6.6	13.2
59	M78	-14.48	-9.567	13.2	19.8
60	M78	-9.567	-3.551	19.8	26.4
61	M78	-3.551	-.347	26.4	33
62	M81	.306	-.622	0	4.333
63	M81	-.622	-3.383	4.333	8.667
64	M81	-3.383	-7.05	8.667	13
65	M82	-18.058	-5.311	0	2.4
66	M82	-5.311	1.062	2.4	4.8
67	M82	2.029	2.029	4.8	7.2
68	M84	-17.431	-17.431	5.988	12
69	M85	-10.234	-22.624	0	3.5
70	M85	-22.624	-25.073	3.5	7
71	M85	-25.073	-18.654	7	10.5
72	M85	-18.654	-15.059	10.5	14
73	M85	-15.059	-13.212	14	17.5
74	M89	-.682	-.682	0	3.532
75	M17	-.347	-3.546	33	39.6
76	M17	-3.546	-9.56	39.6	46.2
77	M17	-9.56	-14.475	46.2	52.8
78	M17	-14.475	-13.106	52.8	59.4
79	M17	-13.106	-6.169	59.4	66
80	M19	.307	-.621	0	4.333
81	M19	-.621	-3.391	4.333	8.667
82	M19	-3.391	-7.077	8.667	13
83	M21	2.125	2.125	4.8	7.2
84	M21	1.062	-5.311	7.2	9.6
85	M21	-5.311	-18.059	9.6	12
86	M22	-11.67	-13.541	0	3.5
87	M22	-13.541	-17.162	3.5	7
88	M22	-17.162	-23.579	7	10.5
89	M22	-23.579	-36.117	10.5	14
90	M22	-36.117	-53.73	14	17.5
91	M28	-.682	-.682	0	3.532
92	M29	-.34	-.34	0	4.514
93	M47	-4.776	-13.169	0	6.6
94	M47	-13.169	-15.153	6.6	13.2

Member Distributed Loads (BLC 47 : BLC 16 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
95	M47	-15.153	-10.113	13.2	19.8
96	M47	-10.113	-3.853	19.8	26.4
97	M47	-3.853	-.42	26.4	33
98	M50	.263	-.67	0	4.333
99	M50	-.67	-3.183	4.333	8.667
100	M50	-3.183	-6.343	8.667	13
101	M51	-16.432	-4.833	0	2.4
102	M51	-4.833	.967	2.4	4.8
103	M53	-9.584	-9.584	5.988	12
104	M54	-19.389	-21.993	0	3.5
105	M54	-21.993	-20.669	3.5	7
106	M54	-20.669	-16.446	7	10.5
107	M54	-16.446	-14.136	10.5	14
108	M54	-14.136	-12.708	14	17.5
109	M57	-.34	-.34	0	4.514
110	M58	-.682	-.682	0	3.532
111	M1	.571	-.696	85.5	108.3
112	M1	-.696	-5.39	108.3	131.1
113	M1	-5.39	-12.539	131.1	153.9
114	M17	6.84	6.218	46.2	50.16
115	M17	6.218	.06	50.16	54.12
116	M17	.06	-9.16	54.12	58.08
117	M17	-9.16	-81.249	58.08	62.04
118	M17	-81.249	-218.059	62.04	66
119	M18	-.899	-9.27	0	4.333
120	M18	-9.27	-11.967	4.333	8.667
121	M18	-11.967	-.899	8.667	13
122	M19	0	-.939	0	2.6
123	M19	-.939	-4.235	2.6	5.2
124	M19	-4.235	-5.129	5.2	7.8
125	M19	-5.129	-1.833	7.8	10.4
126	M19	-1.833	0	10.4	13
127	M30	-66.653	-66.653	0	4.514
128	M31	-14.503	-5.83	17.1	39.9
129	M31	-5.83	-.472	39.9	62.7
130	M31	-.472	.698	62.7	85.5
131	M46	6.227	2.863	0	3.25
132	M46	2.863	-6.51	3.25	6.5
133	M46	-6.51	-62.339	6.5	9.75
134	M46	-62.339	-161.976	9.75	13
135	M47	-34.701	-24.634	0	3.96
136	M47	-24.634	-16.058	3.96	7.92
137	M47	-16.058	-6.627	7.92	11.88
138	M47	-6.627	-.118	11.88	15.84
139	M47	-.118	.503	15.84	19.8
140	M50	0	-.326	0	2.6
141	M50	-.326	-4.229	2.6	5.2
142	M50	-4.229	-5.743	5.2	7.8
143	M50	-5.743	-1.841	7.8	10.4
144	M50	-1.841	0	10.4	13
145	M56	-37.071	-37.071	0	4.514
146	M17	-6.169	-13.106	0	6.6
147	M17	-13.106	-14.611	6.6	13.2
148	M17	-14.611	-9.731	13.2	19.8
149	M17	-9.731	-3.581	19.8	26.4
150	M17	-3.581	-.347	26.4	33
151	M20	-.088	-.461	0	3.25

Member Distributed Loads (BLC 47 : BLC 16 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in, %]	End Location[in, %]
152	M20	Y	- .461	-2.922	3.25 6.5
153	M20	Y	-2.922	-4.304	6.5 9.75
154	M20	Y	-4.304	-2.892	9.75 13
155	M21	Y	-18.059	-5.311	0 2.4
156	M21	Y	-5.311	1.062	2.4 4.8
157	M23	Y	-17.458	-17.458	5.988 12
158	M24	Y	-10.248	-22.621	0 3.5
159	M24	Y	-22.621	-25.059	3.5 7
160	M24	Y	-25.059	-18.645	7 10.5
161	M24	Y	-18.645	-15.057	10.5 14
162	M24	Y	-15.057	-13.21	14 17.5
163	M26	Y	-.331	-.331	0 4.514
164	M27	Y	-.682	-.682	0 3.532
165	M78	Y	-.42	-3.853	33 39.6
166	M78	Y	-3.853	-10.113	39.6 46.2
167	M78	Y	-10.113	-15.153	46.2 52.8
168	M78	Y	-15.153	-13.169	52.8 59.4
169	M78	Y	-13.169	-4.776	59.4 66
170	M80	Y	.263	-.67	0 4.333
171	M80	Y	-.67	-3.183	4.333 8.667
172	M80	Y	-3.183	-6.343	8.667 13
173	M82	Y	.967	-4.833	7.2 9.6
174	M82	Y	-4.833	-16.432	9.6 12
175	M83	Y	-11.391	-13.718	0 3.5
176	M83	Y	-13.718	-15.712	3.5 7
177	M83	Y	-15.712	-19.53	7 10.5
178	M83	Y	-19.53	-29.446	10.5 14
179	M83	Y	-29.446	-43.304	14 17.5
180	M90	Y	-.682	-.682	0 3.532
181	M91	Y	-.342	-.342	0 4.514
182	M1	Y	-12.887	-9.064	17.1 34.2
183	M1	Y	-9.064	-3.842	34.2 51.3
184	M1	Y	-3.842	-.146	51.3 68.4
185	M1	Y	-.146	.239	68.4 85.5
186	M16	Y	7.36	-1.152	0 4.333
187	M16	Y	-1.152	-53.826	4.333 8.667
188	M16	Y	-53.826	-142.148	8.667 13
189	M17	Y	-23.636	-20.954	0 3.96
190	M17	Y	-20.954	-15.898	3.96 7.92
191	M17	Y	-15.898	-6.646	7.92 11.88
192	M17	Y	-6.646	-.487	11.88 15.84
193	M17	Y	-.487	.134	15.84 19.8
194	M20	Y	0	-.326	0 2.6
195	M20	Y	-.326	-4.229	2.6 5.2
196	M20	Y	-4.229	-5.743	5.2 7.8
197	M20	Y	-5.743	-1.841	7.8 10.4
198	M20	Y	-1.841	0	10.4 13
199	M25	Y	-45.532	-45.532	0 4.514
200	M62	Y	.664	-.447	85.5 108.3
201	M62	Y	-.447	-5.54	108.3 131.1
202	M62	Y	-5.54	-13.799	131.1 153.9
203	M78	Y	6.3	5.678	46.2 50.16
204	M78	Y	5.678	-.826	50.16 54.12
205	M78	Y	-.826	-10.211	54.12 58.08
206	M78	Y	-10.211	-76.713	58.08 62.04
207	M78	Y	-76.713	-202.711	62.04 66
208	M79	Y	-.215	-8.539	0 4.333

Member Distributed Loads (BLC 47 : BLC 16 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in.%]	End Location[in.%]
209	M79	Y	-8.539	-15.574	4.333	8.667
210	M79	Y	-15.574	-12.995	8.667	13
211	M80	Y	4.099e-16	-.97	0	2.6
212	M80	Y	-.97	-4.23	2.6	5.2
213	M80	Y	-4.23	-5.099	5.2	7.8
214	M80	Y	-5.099	-1.839	7.8	10.4
215	M80	Y	-1.839	4.099e-16	10.4	13
216	M92	Y	-42.922	-42.922	0	4.514

Member Area Loads (BLC 1 : Self Weight)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[psf]
1	N102	N108	N189	N185	Y	Two Way	-10
2	N108	N110	N198	N189	Y	Two Way	-10
3	N197	N195	N51	N57	Y	Two Way	-10
4	N51	N195	N183	N49	Y	Two Way	-10
5	N56	N54	N105	N111	Y	Two Way	-10
6	N105	N54	N48	N103	Y	Two Way	-10

Member Area Loads (BLC 16 : Ice Weight)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[psf]
1	N102	N108	N189	N185	Y	Two Way	-14.5
2	N108	N110	N198	N189	Y	Two Way	-14.5
3	N111	N56	N54	N105	Y	Two Way	-14.5
4	N105	N103	N48	N54	Y	Two Way	-14.5
5	N57	N51	N195	N197	Y	Two Way	-14.5
6	N195	N51	N49	N183	Y	Two Way	-14.5

Date:	10/18/2019
Client	Smartlink
Carrier	AT&T
Engineer:	TM
	Scotland-Huntington
Site:	Road
Job #:	1106-A0001-B
	238.0' RAD

Code:	LRFD
Bolt Diameter	0.625
Bolt Grade:	A307
Threads Excluded?:	N
Axial (lbs):	2275.51
Shear (lbs):	2274.00

Bolt Info:	
Yield Strength (F_{yb})	36.0 kips
Ultimate Strength (F_{ub})	60.0 kips
Threads/in (n)	11
Gross Area (A_{gb})	0.307 in ²
Net Area (A_{nb})	0.226 in ²

Bolt Capacity (5/8" A307 Bolts), Total of (4) per Connection				
	Ult Load / Bolt	Factored Load ($\phi=0.75$)	# of Bolts	Factor Joint Capacity
Axial (lb)	13560.1	10170.1	4	40680
Shear(lb)	8283.5	6212.6	4	24850

Interaction Check		
$T / \phi T_n$		5.6%
$V / \phi V_n$		9.2%
≤ 1.0		1.2%
		OK

GENERAL NOTES:

1. THESE DOCUMENTS WERE DESIGNED IN ACCORDANCE WITH THE LATEST VERSION OF APPLICABLE LOCAL/STATE/COUNTY/CITY BUILDING CODES, AS WELL AS ANSI/TIA-222 STANDARD, AWWA-D100 STANDARD, NDS, NEC, MSJC, AND/OR THE LATEST VERSION OF THE INTERNATIONAL BUILDING CODE, UNLESS NOTED OTHERWISE IN THE CORRESPONDING STRUCTURAL REPORT.
2. ALL CONSTRUCTION METHODS SHOULD FOLLOW STANDARDS OF GOOD CONSTRUCTION PRACTICE.
3. ALL WORK INDICATED ON THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED CONTRACTORS EXPERIENCED IN SIMILAR CONSTRUCTION.
4. ALL NEW WORK SHALL ACCOMMODATE EXISTING CONDITIONS. IF OBSTRUCTIONS ARE FOUND, CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD PRIOR TO CONTINUING WORK.
5. ANY CHANGES OR ADDITIONS MUST CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS, AND SHOULD BE SIMILAR TO THOSE SHOWN. ALL CHANGES OR ADDITIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND/OR CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL MISCELLANEOUS SHORING, BRACING, TEMPORARY SUPPORTS, ETC. NECESSARY TO PROVIDE A COMPLETE AND STABLE STRUCTURE DURING CONSTRUCTION. TIA-1019-A-2011 IS AN APPROPRIATE REFERENCE FOR THOSE DESIGNS MEETING TIA STANDARDS. THE ENGINEER OF RECORD MAY PROVIDE FORMAL RIGGING PLANS AT THE REQUEST AND EXPENSE OF THE CONTRACTOR.
7. INSTALLATION SHALL NOT INTERFERE NOR DENY ADEQUATE ACCESS TO OR FROM ANY EXISTING OR PROPOSED OPERATIONAL AND SAFETY EQUIPMENT.
8. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO ANY FABRICATION. CONTACT INFINIGY ENGINEERING IF ANY DISCREPANCIES EXIST.

STEEL CONSTRUCTION NOTES:

1. STRUCTURAL STEEL SHALL CONFORM TO THE AISC MANUAL OF STEEL CONSTRUCTION 14TH EDITION, FOR THE DESIGN AND FABRICATION OF STEEL COMPONENTS.
2. ALL FIELD CUT SURFACES, FIELD DRILLED HOLES, AND GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVALITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS' RECOMMENDATIONS.
3. ALL FIELD DRILLED HOLES TO BE USED FOR FIELD BOLTING INSTALLATION SHALL BE STANDARD HOLES, AS DEFINED BY AISC, UNLESS NOTED OTHERWISE.
4. ALL EXTERIOR STEEL WORK SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123.
5. ALL STEEL MEMBERS AND CONNECTIONS SHALL MEET THE FOLLOWING GRADES:
 - ANGLES, CHANNELS, PLATES AND BARS TO BE A36. Fy=36 KSI, U.N.O.
 - W SHAPES TO BE A992. Fy=50 KSI, U.N.O.
 - RECTANGULAR HSS TO BE A500, GRADE B. Fy=46 KSI, U.N.O.
 - ROUND HSS TO BE A500, GRADE B. Fy=42 KSI, U.N.O.
 - STEEL PIPE TO BE A53, GRADE B. Fy=35 KSI, U.N.O.
 - BOLTS TO BE A325-X. Fu=120 KSI, U.N.O.
 - U-BOLTS AND LAG SCREWS TO BE A307 GR A. Fu=60 KSI, U.N.O.
6. ALL WELDING SHALL BE DONE USING E70XX ELECTRODES, U.N.O.
7. ALL WELDING SHALL CONFORM TO AISC AND AWS D1.1 LATEST EDITION.
8. ALL HILTI ANCHORS TO BE CARBON STEEL, U.N.O.
 - MECHANICAL ANCHORS: KWIK BOLT-TZ, U.N.O.
 - CMU BLOCK ANCHORS: ADHESIVE - HY120, U.N.O.
 - CONCRETE ANCHORS: ADHESIVE - HY150, U.N.O.
 - CONCRETE REBAR: ADHESIVE - RE500, U.N.O.
9. ALL STUDS TO BE NELSON CAPACITOR DISCHARGE 1/4"-20 LOW CARBON STEEL COPPER-FLASH AT 55 KSI ULT/50 KSI YIELD, U.N.O.
10. BOLTS SHALL BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC.
11. MINIMUM EDGE DISTANCES SHALL CONFORM TO AISC TABLE J3.4.
12. REMOVAL/REPLACEMENT OF STRUCTURAL MEMBERS SHALL BE DONE ONE MEMBER AT A TIME. CONTRACTOR IS RESPONSIBLE FOR ENSURING THE STRUCTURAL INTEGRITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

CONCRETE CONSTRUCTION NOTES:

1. CONCRETE TO BE 4000 PSI @ 28 DAYS. REINFORCING BAR TO CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS. CONCRETE INSTALLATION TO CONFORM TO ACI-318 BUILDING REQUIREMENTS FOR REINFORCED CONCRETE. ALL CONCRETE TO BE PLACED AGAINST UNDISTURBED EARTH FREE OF WATER AND ALL FOREIGN OBJECTS AND MATERIALS. A MINIMUM OF THREE INCHES OF CONCRETE SHALL COVER ALL REINFORCEMENT. WELDING OF REBAR IS NOT PERMITTED.
2. EXISTING CONCRETE SURFACES THAT ARE TO BE IN CONTACT WITH NEW PROPOSED CONCRETE SHOULD BE WIRE BRUSHED CLEAN AND TREATED WITH APPROPRIATE MECHANICAL SCRATCH COAT AND REPAIR MATERIALS OR APPROPRIATE CHEMICAL METHODS SUCH AS THE APPLICATION OF A BONDING AGENT, EX. SAKRETE OR EQUIVALENT, TO ENSURE A QUALITY BOND BETWEEN EXISTING AND PROPOSED CONCRETE SURFACES.

FIBER REINFORCED POLYMER (FRP) NOTES:

1. FRP PLATES, SHAPES, BOLTS AND NUTS (STUD/NUT ASSEMBLIES) SHALL CONFORM TO ASTM D638, 695, 790. PLATES AND SHAPES TO BE Fy = 5.35 KSI LW (SAFETY FACTOR OF 8), .945 KSI CW (SAFETY FACTOR OF 8) MIN.
2. IF FIELD FABRICATION IS REQUIRED, ALL CUT EDGES AND DRILLED HOLES TO BE SEALED USING VINYL ESTER SEALING KIT SUPPLIED BY THE MANUFACTURER.
3. ALL FASTENERS TO BE 1/2" DIA FRP THREADED ROD WITH FIBER REINFORCED THERMOPLASTIC NUT, SPACED AT 12 INCHES ON CENTER MAXIMUM, U.N.O., FOR PANELS AND AS DESIGNED FOR STRUCTURAL MEMBERS.
4. THE COLOR AND SURFACE PATTERN OF EXPOSED FRP PANELS SHALL MATCH THE EXTERIOR OF THE EXISTING BUILDING, U.N.O.
5. STUD/NUT ASSEMBLIES SHOULD BE LUBRICATED FOR INSTALLATION
6. ENSURE BEARING SURFACES OF THE NUTS ARE PARALLEL TO THE SURFACES BEING FASTENED.
7. TORQUE BOLTS ACCORDING TO THE FOLLOWING TABLE:

INSTALLATION TORQUE TABLE		
SIZE	ULTIMATE TORQUE STRENGTH	RECOMMENDED MAXIMUM INSTALLATION TORQUE
3/8-16 UNC	8 FT-LBS	4 FT-LBS
1/2-13 UNC	18 FT-LBS	8 FT-LBS
5/8-11 UNC	35 FT-LBS	16 FT-LBS
3/4-10 UNC	50 FT-LBS	24 FT-LBS
1-8 UNC	110 FT-LBS	50 FT-LBS

8. WHEN TIGHTENING FRP STUD/NUT ASSEMBLIES, WRENCHES MUST MAKE FULL CONTACT WITH ALL NUT EDGES. A STANDARD SIX POINT SOCKET IS RECOMMENDED.
9. STUD/NUT ASSEMBLIES SHOULD BE BONDED BY APPLYING BONDING AGENT TO ENTIRE NUT AND EXPOSED STUD.
10. ALL FRP MATERIALS TO BE PROVIDED BY FIBERGRATE COMPOSITE STRUCTURES, DALLAS TX, OR APPROVED EQUAL.
11. ALL FRP SHAPES TO BE DYNAFORM PULTRUDED STRUCTURAL SHAPES.
12. ALL FRP PLATES TO BE FIBERPLATE MOLDED FRP PLATE.
13. ALL FRP PANELS TO BE FIBERPLATE CLADDING PANEL.
14. EACH FRP PANEL TO BE IDENTIFIED WITH LARR#25536 AND FIBERGRATE COMPOSITE STRUCTURAL LABEL.
15. FRP MATERIAL TO BE CLASSIFIED AS CC1 OR BETTER, AND HAVE MAXIMUM FLAME SPREAD OF 50.
16. ALL DESIGN AND CONSTRUCTION TO BE COMPLETED IN ACCORDANCE WITH LOS ANGELES RESEARCH REPORT RR25536, DATED FEBRUARY 1, 2016.
17. SPECIAL INSPECTIONS MUST BE PROVIDED FOR ALL FRP INSTALLMENTS. SEE SPECIAL INSPECTION SECTION, THIS SHEET.

RATIO OF EDGE DISTANCE TO FRP FASTENER DIAMETER		
	RANGE	RECOMMENDED
EDGE DISTANCE - CL* BOLT TO END	2.0-4.0	3.0
EDGE DISTANCE - CL* BOLT TO SIDE	1.5-3.5	2.5
BOLT PITCH - CL* TO CL*	4.0-5.0	5.0

WOOD CONSTRUCTION NOTES:

1. ALL EXISTING WOOD SHAPES ARE ASSUMED TO BE DOUGLAS FIR-LARCH WITH A REFERENCE DESIGN BENDING VALUE OF 1000 PSI MIN.
2. ALL PROPOSED WOOD SHAPES ARE TO BE DOUGLAS FIR-LARCH WITH A REFERENCE DESIGN BENDING VALUE OF 1000 PSI MIN. U.N.O.
3. ALL EXISTING AND PROPOSED GLUED LAMINATED TIMBERS ARE TO BE 24F-1.8C DOUGLAS FIR BALANCED WITH A REFERENCE DESIGN BENDING VALUE OF 2400 PSI MIN. U.N.O.

MASONRY CONSTRUCTION NOTES:

1. ALL BRICK TO BE 1500 PSI MIN. REINFORCING BAR (IF APPLICABLE) TO CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS. ALL MORTAR TO BE 2000 PSI MIN.
 - FOR INTERIOR/ABOVE GRADE APPLICATIONS TYPE N MORTAR HAVING MINIMUM MODULUS OF RUPTURE OF 100 PSI SHALL BE USED. FOR EXTERIOR/BELOW GRADE APPLICATIONS TYPE M OR S MORTAR HAVING A MINIMUM MODULUS OF RUPTURE OF 133 PSI.
 - BRICK AND MORTAR INSTALLATION TO CONFORM TO MSJC BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES.
2. ALL CMU TO BE 1500 PSI MIN. REINFORCING BAR (IF APPLICABLE) TO CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS. ALL MORTAR TO BE 2000 PSI MIN.
 - FOR INTERIOR/ABOVE GRADE APPLICATIONS, TYPE N MORTAR HAVING MINIMUM MODULUS OF RUPTURE OF 64 PSI SHALL BE USED FOR UNGROUTED BLOCKS, AND 158 PSI FOR FULLY GROUTED BLOCKS.
 - FOR EXTERIOR/BELOW GRADE APPLICATIONS TYPE M OR S MORTAR HAVING A MINIMUM MODULUS OF RUPTURE OF 84 PSI SHALL BE USED FOR UNGROUTED BLOCKS, AND 163 PSI FOR FULLY GROUTED BLOCKS.
 - BRICK AND MORTAR INSTALLATION TO CONFORM TO MSJC BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES.

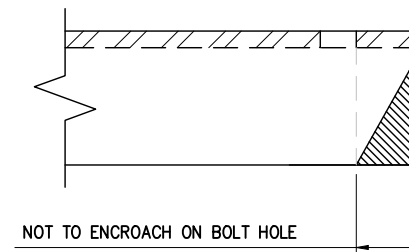
TOWER PLUMB & TENSION NOTES:

1. PLUMB AND TENSION TOWER UPON COMPLETION OF STRUCTURAL MODIFICATIONS DETAILED IN THESE DRAWINGS.
2. RETENSIONING OF EXISTING GUY WIRES SHALL BE PERFORMED AT A TIME WHEN THE WIND VELOCITY IS LESS THAN 10 MPH AT GROUND LEVEL AND WITH NO ICE ON THE STRUCTURE AND GUY WIRES.
3. PLUMB THE TOWER WHILE RETENSIONING THE EXISTING GUY WIRES. THE HORIZONTAL DISTANCE BETWEEN THE VERTICAL CENTERLINES AT ANY TWO ELEVATIONS SHALL NOT EXCEED 0.25% OF THE VERTICAL DISTANCE BETWEEN TWO ELEVATIONS FOR LATTICED STRUCTURES.
4. THE TWIST BETWEEN ANY TWO ELEVATIONS THROUGHOUT THE HEIGHT OF A LATTICE STRUCTURE SHALL NOT EXCEED 0.5 DEGREES IN 10 FEET. THE MAXIMUM TWIST OVER THE LATTICE STRUCTURE HEIGHT SHALL NOT EXCEED 5 DEGREES.

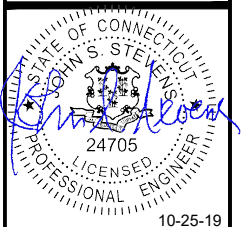
SPECIAL INSPECTIONS NOTES:

1. A QUALIFIED INDEPENDENT TESTING LABORATORY, EMPLOYED BY THE OWNER AND APPROVED BY THE JURISDICTION, SHALL PERFORM INSPECTION AND TESTING IN ACCORDANCE WITH THE THE GOVERNING BUILDING CODE, APPLICABLE SECTION(S) AS REQUIRED BY PROJECT SPECIFICATIONS FOR THE FOLLOWING CONSTRUCTION WORK:
 - a. STRUCTURAL WELDING (CONTINUOUS INSPECTION OF FIELD WELDS ONLY).
 - b. HIGH STRENGTH BOLTS (PERIODIC INSPECTION OF A325 AND/OR A490 BOLTS) TO BE TIGHTENED PER "TURN-OF-THE-NUT" METHOD.
 - c. MECHANICAL AND EPOXIED ANCHORAGES.
 - d. FIBER REINFORCED POLYMER.
 - THE SPECIAL INSPECTOR MUST VERIFY THAT THE FRP MATERIAL SPECIFIED ON THE APPROVED DESIGN DOCUMENTS IS BEING INSTALLED.
 - THE SPECIAL INSPECTOR MUST VERIFY THAT ALL CUT EDGES AND DRILLED HOLES ARE PROPERLY SEALED USING A VINYL ESTER SEALING KIT SUPPLIED BY THE MANUFACTURER.
 - THE SPECIAL INSPECTOR MUST VERIFY THAT THE STRUCTURE IS BUILT IN ACCORDANCE WITH THE APPROVED DESIGN DOCUMENTS.
2. THE INSPECTION AGENCY SHALL SUBMIT INSPECTION AND TEST REPORTS TO THE BUILDING DEPARTMENT, THE ENGINEER OF RECORD, AND THE OWNER UNLESS THE FABRICATOR IS APPROVED BY THE BUILDING OFFICIAL TO PERFORM WORK WITHOUT THE SPECIAL INSPECTIONS.

MAXIMUM ALLOWABLE ANGLE CLIP



INFINIGY
 INFINIGY ENGINEERING, PLLC
 1033 Waterfront Shaker Rd
 Albany, NY 12205
 Office # (518) 690-0790
 Fax # (518) 690-0793



UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF APPLICABLE STATE AND/OR LOCAL LAWS

No.	ISSUED FOR REVIEW	TM	10/18/19
0			
	Submital / Revision	App'd	Date
Drawn:	LAM	Date:	10/18/19
Designed:	TM	Date:	10/18/19
Checked:	BA	Date:	10/18/19
Project Number: 1106-A0001-B			

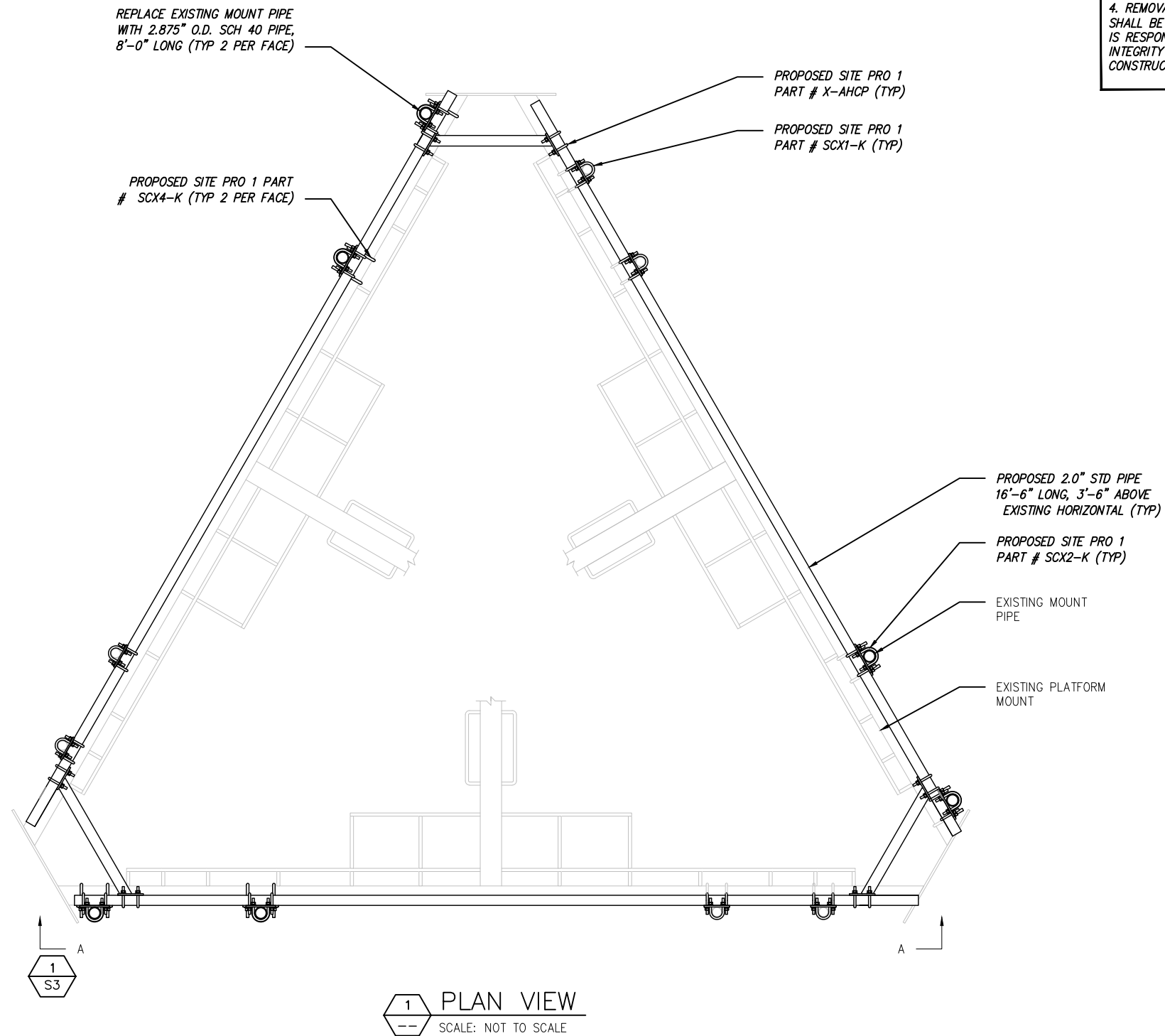
Project Title:
SCOTLAND -HUNTINGTON ROAD
CTL01242
FA# 10050915
 165 HUNTINGTON ROAD
 SCOTLAND, CT 06264



Drawing Scale:
 AS NOTED
 Date:
 10/18/19

Drawing Title
GENERAL NOTES

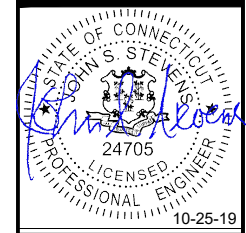
Drawing Number
S1



1. VARIOUS EXISTING CONDITIONS AND PROPOSED MODIFICATIONS NOT SHOWN FOR CLARITY.
2. ALL DESIGNATED PARTS / PART NUMBERS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
3. MODIFICATIONS SHOWN ARE FOR ENTIRE PLATFORM MOUNT.
4. REMOVAL/REPLACEMENT OF STRUCTURAL MEMBERS SHALL BE DONE ONE MEMBER AT A TIME. CONTRACTOR IS RESPONSIBLE FOR ENSURING THE STRUCTURAL INTEGRITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

1 PLAN VIEW
SCALE: NOT TO SCALE

INFINIGY
 INFINIGY ENGINEERING, PLLC
 1033 Watervliet Shaker Rd
 Albany, NY 12205
 Office # (518) 690-0790
 Fax # (518) 690-0793



UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF APPLICABLE STATE AND/OR LOCAL LAWS

No.	Issued For Review	TM	10/18/19
0	ISSUED FOR REVIEW	TM	10/18/19

Project Number: 1106-A0001-B

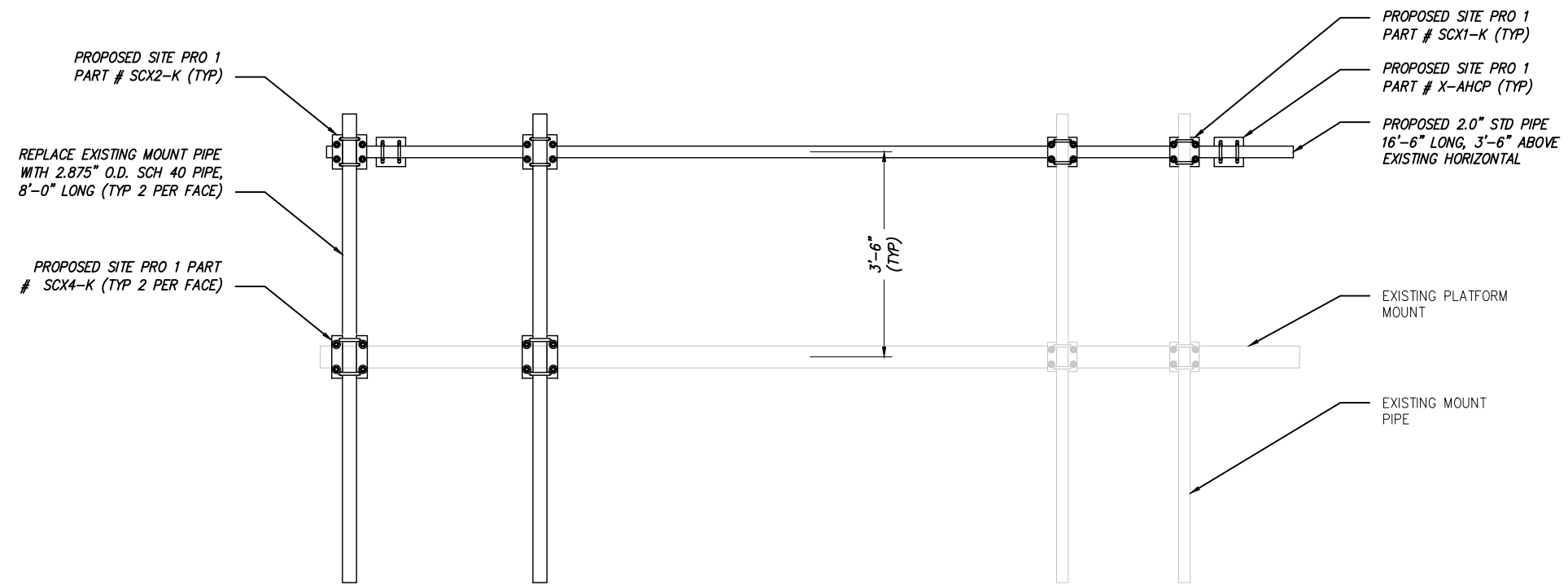
Project Title:
 SCOTLAND
 -HUNTINGTON ROAD
 CTL01242
 FA# 10050915
 165 HUNTINGTON ROAD
 SCOTLAND, CT 06264



Drawing Scale: AS NOTED
 Date: 10/18/19
 0

Drawing Title:
**MOUNT
 MODIFICATION
 DETAILS**

Drawing Number:
S2



SECTION A-A
SCALE: NOT TO SCALE



UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF APPLICABLE STATE AND/OR LOCAL LAWS

No.	ISSUED FOR REVIEW	TM	10/18/19
0	Submittal / Revision	App'd	Date
Drawn:	LAM	Date:	10/18/19
Designed:	TM	Date:	10/18/19
Checked:	BDA	Date:	10/18/19

Project Number: 1106-A0001-B

Project Title:
 SCOTLAND
 -HUNTINGTON ROAD
 CTL01242
 FA# 10050915
 165 HUNTINGTON ROAD
 SCOTLAND, CT 06264



Drawing Scale: AS NOTED
 Date: 10/18/19
 0

Drawing Title:
**SECTION CUT
 A-A**

Drawing Number:
S3

GENERAL NOTES:

1. THESE DOCUMENTS WERE DESIGNED IN ACCORDANCE WITH THE LATEST VERSION OF APPLICABLE LOCAL/STATE/COUNTY/CITY BUILDING CODES, AS WELL AS ANSI/TIA-222 STANDARD, AWWA-D100 STANDARD, NDS, NEC, MSJC, AND/OR THE LATEST VERSION OF THE INTERNATIONAL BUILDING CODE, UNLESS NOTED OTHERWISE IN THE CORRESPONDING STRUCTURAL REPORT.
2. ALL CONSTRUCTION METHODS SHOULD FOLLOW STANDARDS OF GOOD CONSTRUCTION PRACTICE.
3. ALL WORK INDICATED ON THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED CONTRACTORS EXPERIENCED IN SIMILAR CONSTRUCTION.
4. ALL NEW WORK SHALL ACCOMMODATE EXISTING CONDITIONS. IF OBSTRUCTIONS ARE FOUND, CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD PRIOR TO CONTINUING WORK.
5. ANY CHANGES OR ADDITIONS MUST CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS, AND SHOULD BE SIMILAR TO THOSE SHOWN. ALL CHANGES OR ADDITIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND/OR CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL MISCELLANEOUS SHORING, BRACING, TEMPORARY SUPPORTS, ETC. NECESSARY TO PROVIDE A COMPLETE AND STABLE STRUCTURE DURING CONSTRUCTION. TIA-1019-A-2011 IS AN APPROPRIATE REFERENCE FOR THOSE DESIGNS MEETING TIA STANDARDS. THE ENGINEER OF RECORD MAY PROVIDE FORMAL RIGGING PLANS AT THE REQUEST AND EXPENSE OF THE CONTRACTOR.
7. INSTALLATION SHALL NOT INTERFERE NOR DENY ADEQUATE ACCESS TO OR FROM ANY EXISTING OR PROPOSED OPERATIONAL AND SAFETY EQUIPMENT.
8. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO ANY FABRICATION. CONTACT INFINIGY ENGINEERING IF ANY DISCREPANCIES EXIST.

STEEL CONSTRUCTION NOTES:

1. STRUCTURAL STEEL SHALL CONFORM TO THE AISC MANUAL OF STEEL CONSTRUCTION 14TH EDITION, FOR THE DESIGN AND FABRICATION OF STEEL COMPONENTS.
2. ALL FIELD CUT SURFACES, FIELD DRILLED HOLES, AND GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZING REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVALITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS' RECOMMENDATIONS.
3. ALL FIELD DRILLED HOLES TO BE USED FOR FIELD BOLTING INSTALLATION SHALL BE STANDARD HOLES, AS DEFINED BY AISC, UNLESS NOTED OTHERWISE.
4. ALL EXTERIOR STEEL WORK SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123.
5. ALL STEEL MEMBERS AND CONNECTIONS SHALL MEET THE FOLLOWING GRADES:
 - ANGLES, CHANNELS, PLATES AND BARS TO BE A36. Fy=36 KSI, U.N.O.
 - W SHAPES TO BE A992. Fy=50 KSI, U.N.O.
 - RECTANGULAR HSS TO BE A500, GRADE B. Fy=46 KSI, U.N.O.
 - ROUND HSS TO BE A500, GRADE B. Fy=42 KSI, U.N.O.
 - STEEL PIPE TO BE A53, GRADE B. Fy=35 KSI, U.N.O.
 - BOLTS TO BE A325-X. Fu=120 KSI, U.N.O.
 - U-BOLTS AND LAG SCREWS TO BE A307 GR A. Fu=60 KSI, U.N.O.
6. ALL WELDING SHALL BE DONE USING E70XX ELECTRODES, U.N.O.
7. ALL WELDING SHALL CONFORM TO AISC AND AWS D1.1 LATEST EDITION.
8. ALL HILTI ANCHORS TO BE CARBON STEEL, U.N.O.
 - MECHANICAL ANCHORS: KWIK BOLT-TZ, U.N.O.
 - CMU BLOCK ANCHORS: ADHESIVE - HY120, U.N.O.
 - CONCRETE ANCHORS: ADHESIVE - HY150, U.N.O.
 - CONCRETE REBAR: ADHESIVE - RE500, U.N.O.
9. ALL STUDS TO BE NELSON CAPACITOR DISCHARGE 1/4"-20 LOW CARBON STEEL COPPER-FLASH AT 55 KSI ULT/50 KSI YIELD, U.N.O.
10. BOLTS SHALL BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC.
11. MINIMUM EDGE DISTANCES SHALL CONFORM TO AISC TABLE J3.4.
12. REMOVAL/REPLACEMENT OF STRUCTURAL MEMBERS SHALL BE DONE ONE MEMBER AT A TIME. CONTRACTOR IS RESPONSIBLE FOR ENSURING THE STRUCTURAL INTEGRITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

CONCRETE CONSTRUCTION NOTES:

1. CONCRETE TO BE 4000 PSI @ 28 DAYS. REINFORCING BAR TO CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS. CONCRETE INSTALLATION TO CONFORM TO ACI-318 BUILDING REQUIREMENTS FOR REINFORCED CONCRETE. ALL CONCRETE TO BE PLACED AGAINST UNDISTURBED EARTH FREE OF WATER AND ALL FOREIGN OBJECTS AND MATERIALS. A MINIMUM OF THREE INCHES OF CONCRETE SHALL COVER ALL REINFORCEMENT. WELDING OF REBAR IS NOT PERMITTED.
2. EXISTING CONCRETE SURFACES THAT ARE TO BE IN CONTACT WITH NEW PROPOSED CONCRETE SHOULD BE WIRE BRUSHED CLEAN AND TREATED WITH APPROPRIATE MECHANICAL SCRATCH COAT AND REPAIR MATERIALS OR APPROPRIATE CHEMICAL METHODS SUCH AS THE APPLICATION OF A BONDING AGENT, EX. SAKRETE OR EQUIVALENT, TO ENSURE A QUALITY BOND BETWEEN EXISTING AND PROPOSED CONCRETE SURFACES.

FIBER REINFORCED POLYMER (FRP) NOTES:

1. FRP PLATES, SHAPES, BOLTS AND NUTS (STUD/NUT ASSEMBLIES) SHALL CONFORM TO ASTM D638, 695, 790. PLATES AND SHAPES TO BE FY = 5.35 KSI LW (SAFETY FACTOR OF 8), .945 KSI CW (SAFETY FACTOR OF 8) MIN.
2. IF FIELD FABRICATION IS REQUIRED, ALL CUT EDGES AND DRILLED HOLES TO BE SEALED USING VINYL ESTER SEALING KIT SUPPLIED BY THE MANUFACTURER.
3. ALL FASTENERS TO BE 1/2" DIA FRP THREADED ROD WITH FIBER REINFORCED THERMOPLASTIC NUT, SPACED AT 12 INCHES ON CENTER MAXIMUM, U.N.O., FOR PANELS AND AS DESIGNED FOR STRUCTURAL MEMBERS.
4. THE COLOR AND SURFACE PATTERN OF EXPOSED FRP PANELS SHALL MATCH THE EXTERIOR OF THE EXISTING BUILDING, U.N.O.
5. STUD/NUT ASSEMBLIES SHOULD BE LUBRICATED FOR INSTALLATION
6. ENSURE BEARING SURFACES OF THE NUTS ARE PARALLEL TO THE SURFACES BEING FASTENED.
7. TORQUE BOLTS ACCORDING TO THE FOLLOWING TABLE:

INSTALLATION TORQUE TABLE		
SIZE	ULTIMATE TORQUE STRENGTH	RECOMMENDED MAXIMUM INSTALLATION TORQUE
3/8-16 UNC	8 FT-LBS	4 FT-LBS
1/2-13 UNC	18 FT-LBS	8 FT-LBS
5/8-11 UNC	35 FT-LBS	16 FT-LBS
3/4-10 UNC	50 FT-LBS	24 FT-LBS
1-8 UNC	110 FT-LBS	50 FT-LBS

8. WHEN TIGHTENING FRP STUD/NUT ASSEMBLIES, WRENCHES MUST MAKE FULL CONTACT WITH ALL NUT EDGES. A STANDARD SIX POINT SOCKET IS RECOMMENDED.
9. STUD/NUT ASSEMBLIES SHOULD BE BONDED BY APPLYING BONDING AGENT TO ENTIRE NUT AND EXPOSED STUD.
10. ALL FRP MATERIALS TO BE PROVIDED BY FIBERGRATE COMPOSITE STRUCTURES, DALLAS TX, OR APPROVED EQUAL.
11. ALL FRP SHAPES TO BE DYNAFORM PULTRUDED STRUCTURAL SHAPES.
12. ALL FRP PLATES TO BE FIBERPLATE MOLDED FRP PLATE.
13. ALL FRP PANELS TO BE FIBERPLATE CLADDING PANEL.
14. EACH FRP PANEL TO BE IDENTIFIED WITH LARR#25536 AND FIBERGRATE COMPOSITE STRUCTURAL LABEL.
15. FRP MATERIAL TO BE CLASSIFIED AS CC1 OR BETTER, AND HAVE MAXIMUM FLAME SPREAD OF 50.
16. ALL DESIGN AND CONSTRUCTION TO BE COMPLETED IN ACCORDANCE WITH LOS ANGELES RESEARCH REPORT RR25536, DATED FEBRUARY 1, 2016.
17. SPECIAL INSPECTIONS MUST BE PROVIDED FOR ALL FRP INSTALLMENTS. SEE SPECIAL INSPECTION SECTION, THIS SHEET.

RATIO OF EDGE DISTANCE TO FRP FASTENER DIAMETER		
	RANGE	RECOMMENDED
EDGE DISTANCE - CL* BOLT TO END	2.0-4.0	3.0
EDGE DISTANCE - CL* BOLT TO SIDE	1.5-3.5	2.5
BOLT PITCH - CL* TO CL*	4.0-5.0	5.0

WOOD CONSTRUCTION NOTES:

1. ALL EXISTING WOOD SHAPES ARE ASSUMED TO BE DOUGLAS FIR-LARCH WITH A REFERENCE DESIGN BENDING VALUE OF 1000 PSI MIN.
2. ALL PROPOSED WOOD SHAPES ARE TO BE DOUGLAS FIR-LARCH WITH A REFERENCE DESIGN BENDING VALUE OF 1000 PSI MIN. U.N.O.
3. ALL EXISTING AND PROPOSED GLUED LAMINATED TIMBERS ARE TO BE 24F-1.8C DOUGLAS FIR BALANCED WITH A REFERENCE DESIGN BENDING VALUE OF 2400 PSI MIN. U.N.O.

MASONRY CONSTRUCTION NOTES:

1. ALL BRICK TO BE 1500 PSI MIN. REINFORCING BAR (IF APPLICABLE) TO CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS. ALL MORTAR TO BE 2000 PSI MIN.
 - FOR INTERIOR/ABOVE GRADE APPLICATIONS TYPE N MORTAR HAVING MINIMUM MODULUS OF RUPTURE OF 100 PSI SHALL BE USED. FOR EXTERIOR/BELOW GRADE APPLICATIONS TYPE M OR S MORTAR HAVING A MINIMUM MODULUS OF RUPTURE OF 133 PSI.
 - BRICK AND MORTAR INSTALLATION TO CONFORM TO MSJC BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES.
2. ALL CMU TO BE 1500 PSI MIN. REINFORCING BAR (IF APPLICABLE) TO CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS. ALL MORTAR TO BE 2000 PSI MIN.
 - FOR INTERIOR/ABOVE GRADE APPLICATIONS, TYPE N MORTAR HAVING MINIMUM MODULUS OF RUPTURE OF 64 PSI SHALL BE USED FOR UNGROUTED BLOCKS, AND 158 PSI FOR FULLY GROUTED BLOCKS.
 - FOR EXTERIOR/BELOW GRADE APPLICATIONS TYPE M OR S MORTAR HAVING A MINIMUM MODULUS OF RUPTURE OF 84 PSI SHALL BE USED FOR UNGROUTED BLOCKS, AND 163 PSI FOR FULLY GROUTED BLOCKS.
 - BRICK AND MORTAR INSTALLATION TO CONFORM TO MSJC BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES.

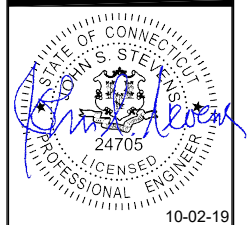
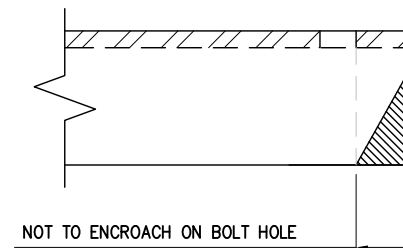
TOWER PLUMB & TENSION NOTES:

1. PLUMB AND TENSION TOWER UPON COMPLETION OF STRUCTURAL MODIFICATIONS DETAILED IN THESE DRAWINGS.
2. RETENSIONING OF EXISTING GUY WIRES SHALL BE PERFORMED AT A TIME WHEN THE WIND VELOCITY IS LESS THAN 10 MPH AT GROUND LEVEL AND WITH NO ICE ON THE STRUCTURE AND GUY WIRES.
3. PLUMB THE TOWER WHILE RETENSIONING THE EXISTING GUY WIRES. THE HORIZONTAL DISTANCE BETWEEN THE VERTICAL CENTERLINES AT ANY TWO ELEVATIONS SHALL NOT EXCEED 0.25% OF THE VERTICAL DISTANCE BETWEEN TWO ELEVATIONS FOR LATTICED STRUCTURES.
4. THE TWIST BETWEEN ANY TWO ELEVATIONS THROUGHOUT THE HEIGHT OF A LATTICE STRUCTURE SHALL NOT EXCEED 0.5 DEGREES IN 10 FEET. THE MAXIMUM TWIST OVER THE LATTICE STRUCTURE HEIGHT SHALL NOT EXCEED 5 DEGREES.

SPECIAL INSPECTIONS NOTES:

1. A QUALIFIED INDEPENDENT TESTING LABORATORY, EMPLOYED BY THE OWNER AND APPROVED BY THE JURISDICTION, SHALL PERFORM INSPECTION AND TESTING IN ACCORDANCE WITH THE THE GOVERNING BUILDING CODE, APPLICABLE SECTION(S) AS REQUIRED BY PROJECT SPECIFICATIONS FOR THE FOLLOWING CONSTRUCTION WORK:
 - a. STRUCTURAL WELDING (CONTINUOUS INSPECTION OF FIELD WELDS ONLY).
 - b. HIGH STRENGTH BOLTS (PERIODIC INSPECTION OF A325 AND/OR A490 BOLTS) TO BE TIGHTENED PER "TURN-OF-THE-NUT" METHOD.
 - c. MECHANICAL AND EPOXIED ANCHORAGES.
 - d. FIBER REINFORCED POLYMER.
 - THE SPECIAL INSPECTOR MUST VERIFY THAT THE FRP MATERIAL SPECIFIED ON THE APPROVED DESIGN DOCUMENTS IS BEING INSTALLED.
 - THE SPECIAL INSPECTOR MUST VERIFY THAT ALL CUT EDGES AND DRILLED HOLES ARE PROPERLY SEALED USING A VINYL ESTER SEALING KIT SUPPLIED BY THE MANUFACTURER.
 - THE SPECIAL INSPECTOR MUST VERIFY THAT THE STRUCTURE IS BUILT IN ACCORDANCE WITH THE APPROVED DESIGN DOCUMENTS.
2. THE INSPECTION AGENCY SHALL SUBMIT INSPECTION AND TEST REPORTS TO THE BUILDING DEPARTMENT, THE ENGINEER OF RECORD, AND THE OWNER UNLESS THE FABRICATOR IS APPROVED BY THE BUILDING OFFICIAL TO PERFORM WORK WITHOUT THE SPECIAL INSPECTIONS.

MAXIMUM ALLOWABLE ANGLE CLIP



UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF APPLICABLE STATE AND/OR LOCAL LAWS.

No.	Submission / Revision	App'd	Date
0	ISSUED FOR REVIEW	WJD	09/30/19

Drawn:	WJD	Date:	09/30/19
Designed:	TM	Date:	09/26/19
Checked:	BDA	Date:	09/30/19
Project Number:			
1106-A0001-B			

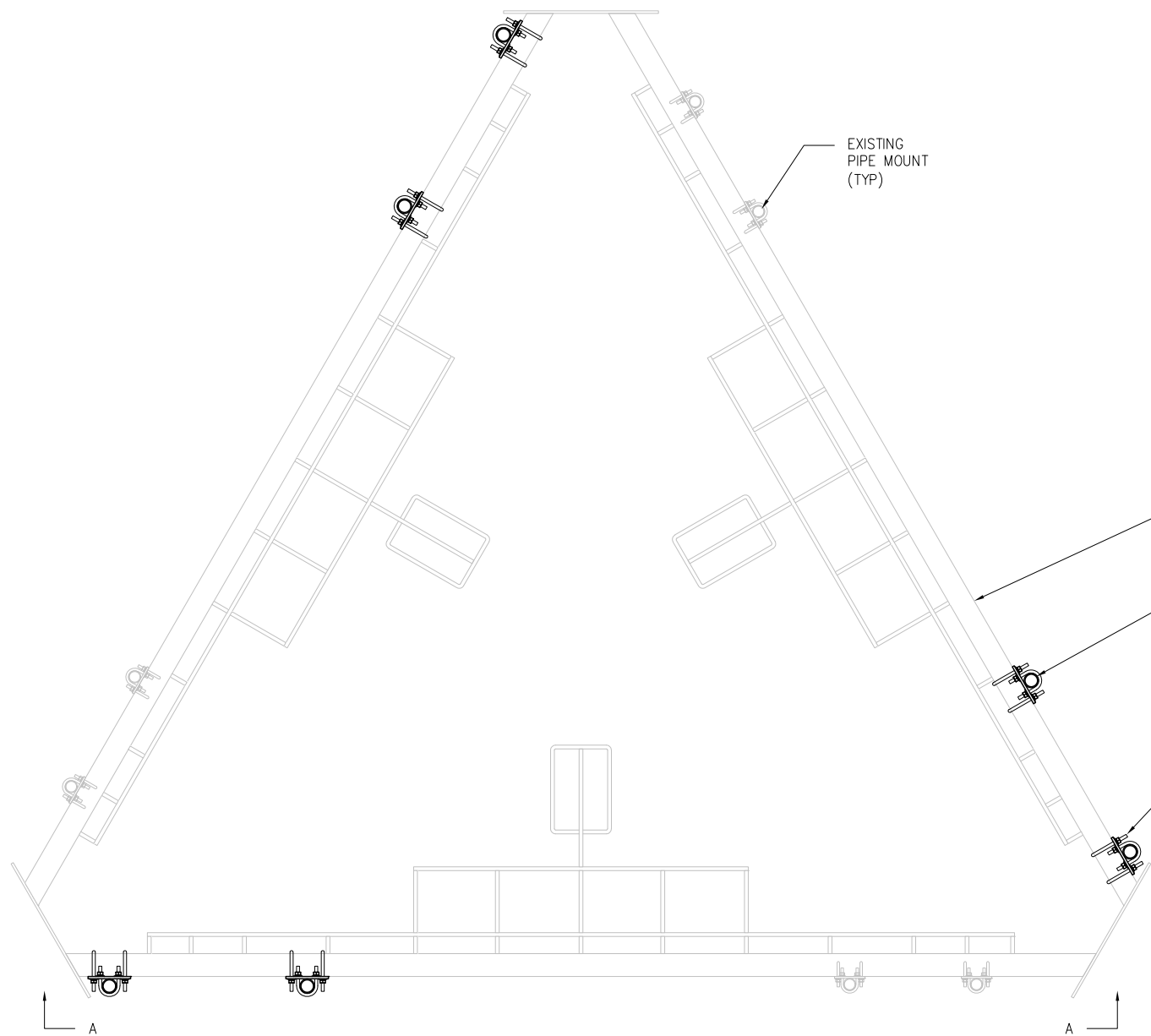
Project Title:
SCOTLAND -HUNTINGTON ROAD
 CTL01242
 FA# 10050915
 165 HUNTINGTON ROAD
 SCOTLAND, CT 06264



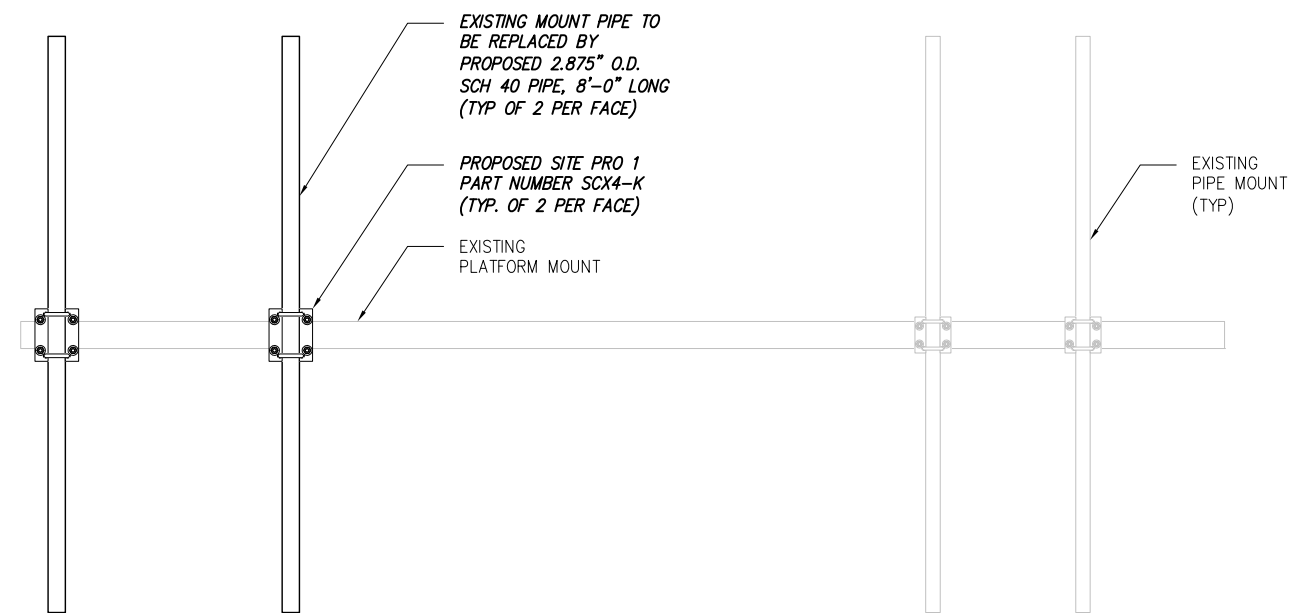
Drawing Scale:	AS NOTED
Date:	09/30/19

Drawing Title
GENERAL NOTES

Drawing Number
S1



1 PLAN VIEW
SCALE: NOT TO SCALE

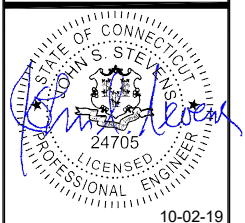


2 SECTION A-A
SCALE: NOT TO SCALE

NOTES:

- VARIOUS EXISTING CONDITIONS AND PROPOSED MODIFICATIONS NOT SHOWN FOR CLARITY.
- ALL DESIGNATED PARTS / PART NUMBERS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- MODIFICATIONS SHOWN ARE FOR ENTIRE PLATFORM MOUNT.
- REMOVAL/REPLACEMENT OF STRUCTURAL MEMBERS SHALL BE DONE ONE MEMBER AT A TIME. CONTRACTOR IS RESPONSIBLE FOR ENSURING THE STRUCTURAL INTEGRITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

INFINIGY
 INFINIGY ENGINEERING, PLLC
 1033 Waterlily Shaker Rd
 Albany, NY 12205
 Office # (518) 660-0790
 Fax # (518) 660-0793



10-02-19
 UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF APPLICABLE STATE AND/OR LOCAL LAWS.

No.	Submission / Revision	App'd	Date
0	ISSUED FOR REVIEW	WJD	09/30/19

Drawn: WJD Date: 09/30/19
 Designed: TM Date: 09/26/19
 Checked: BDA Date: 09/30/19

Project Number: 1106-A0001-B

Project Title:
 SCOTLAND
 -HUNTINGTON ROAD
 CTL01242
 FA# 10050915
 165 HUNTINGTON ROAD
 SCOTLAND, CT 06264

Prepared For:

Drawing Scale:
 AS NOTED
 Date:
 09/30/19

Drawing Title:
**MOUNT
 MODIFICATION
 DETAILS**

Drawing Number:
S2

GENERAL NOTES:

1. THESE DOCUMENTS WERE DESIGNED IN ACCORDANCE WITH THE LATEST VERSION OF APPLICABLE LOCAL/STATE/COUNTY/CITY BUILDING CODES, AS WELL AS ANSI/TIA-222 STANDARD, AWWA-D100 STANDARD, NDS, NEC, MSJC, AND/OR THE LATEST VERSION OF THE INTERNATIONAL BUILDING CODE, UNLESS NOTED OTHERWISE IN THE CORRESPONDING STRUCTURAL REPORT.
2. ALL CONSTRUCTION METHODS SHOULD FOLLOW STANDARDS OF GOOD CONSTRUCTION PRACTICE.
3. ALL WORK INDICATED ON THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED CONTRACTORS EXPERIENCED IN SIMILAR CONSTRUCTION.
4. ALL NEW WORK SHALL ACCOMMODATE EXISTING CONDITIONS. IF OBSTRUCTIONS ARE FOUND, CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD PRIOR TO CONTINUING WORK.
5. ANY CHANGES OR ADDITIONS MUST CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS, AND SHOULD BE SIMILAR TO THOSE SHOWN. ALL CHANGES OR ADDITIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND/OR CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL MISCELLANEOUS SHORING, BRACING, TEMPORARY SUPPORTS, ETC. NECESSARY TO PROVIDE A COMPLETE AND STABLE STRUCTURE DURING CONSTRUCTION. TIA-1019-A-2011 IS AN APPROPRIATE REFERENCE FOR THOSE DESIGNS MEETING TIA STANDARDS. THE ENGINEER OF RECORD MAY PROVIDE FORMAL RIGGING PLANS AT THE REQUEST AND EXPENSE OF THE CONTRACTOR.
7. INSTALLATION SHALL NOT INTERFERE NOR DENY ADEQUATE ACCESS TO OR FROM ANY EXISTING OR PROPOSED OPERATIONAL AND SAFETY EQUIPMENT.
8. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO ANY FABRICATION. CONTACT INFINIGY ENGINEERING IF ANY DISCREPANCIES EXIST.

STEEL CONSTRUCTION NOTES:

1. STRUCTURAL STEEL SHALL CONFORM TO THE AISC MANUAL OF STEEL CONSTRUCTION 14TH EDITION, FOR THE DESIGN AND FABRICATION OF STEEL COMPONENTS.
2. ALL FIELD CUT SURFACES, FIELD DRILLED HOLES, AND GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVALITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS' RECOMMENDATIONS.
3. ALL FIELD DRILLED HOLES TO BE USED FOR FIELD BOLTING INSTALLATION SHALL BE STANDARD HOLES, AS DEFINED BY AISC, UNLESS NOTED OTHERWISE.
4. ALL EXTERIOR STEEL WORK SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123.
5. ALL STEEL MEMBERS AND CONNECTIONS SHALL MEET THE FOLLOWING GRADES:
 - ANGLES, CHANNELS, PLATES AND BARS TO BE A36. Fy=36 KSI, U.N.O.
 - W SHAPES TO BE A992. Fy=50 KSI, U.N.O.
 - RECTANGULAR HSS TO BE A500, GRADE B. Fy=46 KSI, U.N.O.
 - ROUND HSS TO BE A500, GRADE B. Fy=42 KSI, U.N.O.
 - STEEL PIPE TO BE A53, GRADE B. Fy=35 KSI, U.N.O.
 - BOLTS TO BE A325-X. Fu=120 KSI, U.N.O.
 - U-BOLTS AND LAG SCREWS TO BE A307 GR A. Fu=60 KSI, U.N.O.
6. ALL WELDING SHALL BE DONE USING E70XX ELECTRODES, U.N.O.
7. ALL WELDING SHALL CONFORM TO AISC AND AWS D1.1 LATEST EDITION.
8. ALL HILTI ANCHORS TO BE CARBON STEEL, U.N.O.
 - MECHANICAL ANCHORS: KWIK BOLT-TZ, U.N.O.
 - CMU BLOCK ANCHORS: ADHESIVE - HY120, U.N.O.
 - CONCRETE ANCHORS: ADHESIVE - HY150, U.N.O.
 - CONCRETE REBAR: ADHESIVE - RE500, U.N.O.
9. ALL STUDS TO BE NELSON CAPACITOR DISCHARGE 1/4"-20 LOW CARBON STEEL COPPER-FLASH AT 55 KSI ULT/50 KSI YIELD, U.N.O.
10. BOLTS SHALL BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC.
11. MINIMUM EDGE DISTANCES SHALL CONFORM TO AISC TABLE J3.4.
12. REMOVAL/REPLACEMENT OF STRUCTURAL MEMBERS SHALL BE DONE ONE MEMBER AT A TIME. CONTRACTOR IS RESPONSIBLE FOR ENSURING THE STRUCTURAL INTEGRITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

CONCRETE CONSTRUCTION NOTES:

1. CONCRETE TO BE 4000 PSI @ 28 DAYS. REINFORCING BAR TO CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS. CONCRETE INSTALLATION TO CONFORM TO ACI-318 BUILDING REQUIREMENTS FOR REINFORCED CONCRETE. ALL CONCRETE TO BE PLACED AGAINST UNDISTURBED EARTH FREE OF WATER AND ALL FOREIGN OBJECTS AND MATERIALS. A MINIMUM OF THREE INCHES OF CONCRETE SHALL COVER ALL REINFORCEMENT. WELDING OF REBAR IS NOT PERMITTED.
2. EXISTING CONCRETE SURFACES THAT ARE TO BE IN CONTACT WITH NEW PROPOSED CONCRETE SHOULD BE WIRE BRUSHED CLEAN AND TREATED WITH APPROPRIATE MECHANICAL SCRATCH COAT AND REPAIR MATERIALS OR APPROPRIATE CHEMICAL METHODS SUCH AS THE APPLICATION OF A BONDING AGENT, EX. SAKRETE OR EQUIVALENT, TO ENSURE A QUALITY BOND BETWEEN EXISTING AND PROPOSED CONCRETE SURFACES.

FIBER REINFORCED POLYMER (FRP) NOTES:

1. FRP PLATES, SHAPES, BOLTS AND NUTS (STUD/NUT ASSEMBLIES) SHALL CONFORM TO ASTM D638, 695, 790. PLATES AND SHAPES TO BE Fy = 5.35 KSI LW (SAFETY FACTOR OF 8), .945 KSI CW (SAFETY FACTOR OF 8) MIN.
2. IF FIELD FABRICATION IS REQUIRED, ALL CUT EDGES AND DRILLED HOLES TO BE SEALED USING VINYL ESTER SEALING KIT SUPPLIED BY THE MANUFACTURER.
3. ALL FASTENERS TO BE 1/2" DIA FRP THREADED ROD WITH FIBER REINFORCED THERMOPLASTIC NUT, SPACED AT 12 INCHES ON CENTER MAXIMUM, U.N.O., FOR PANELS AND AS DESIGNED FOR STRUCTURAL MEMBERS.
4. THE COLOR AND SURFACE PATTERN OF EXPOSED FRP PANELS SHALL MATCH THE EXTERIOR OF THE EXISTING BUILDING, U.N.O.
5. STUD/NUT ASSEMBLIES SHOULD BE LUBRICATED FOR INSTALLATION
6. ENSURE BEARING SURFACES OF THE NUTS ARE PARALLEL TO THE SURFACES BEING FASTENED.
7. TORQUE BOLTS ACCORDING TO THE FOLLOWING TABLE:

INSTALLATION TORQUE TABLE		
SIZE	ULTIMATE TORQUE STRENGTH	RECOMMENDED MAXIMUM INSTALLATION TORQUE
3/8-16 UNC	8 FT-LBS	4 FT-LBS
1/2-13 UNC	18 FT-LBS	8 FT-LBS
5/8-11 UNC	35 FT-LBS	16 FT-LBS
3/4-10 UNC	50 FT-LBS	24 FT-LBS
1-8 UNC	110 FT-LBS	50 FT-LBS

8. WHEN TIGHTENING FRP STUD/NUT ASSEMBLIES, WRENCHES MUST MAKE FULL CONTACT WITH ALL NUT EDGES. A STANDARD SIX POINT SOCKET IS RECOMMENDED.
9. STUD/NUT ASSEMBLIES SHOULD BE BONDED BY APPLYING BONDING AGENT TO ENTIRE NUT AND EXPOSED STUD.
10. ALL FRP MATERIALS TO BE PROVIDED BY FIBERGRATE COMPOSITE STRUCTURES, DALLAS TX, OR APPROVED EQUAL.
11. ALL FRP SHAPES TO BE DYNAFORM PULTRUDED STRUCTURAL SHAPES.
12. ALL FRP PLATES TO BE FIBERPLATE MOLDED FRP PLATE.
13. ALL FRP PANELS TO BE FIBERPLATE CLADDING PANEL.
14. EACH FRP PANEL TO BE IDENTIFIED WITH LARR#25536 AND FIBERGRATE COMPOSITE STRUCTURAL LABEL.
15. FRP MATERIAL TO BE CLASSIFIED AS CC1 OR BETTER, AND HAVE MAXIMUM FLAME SPREAD OF 50.
16. ALL DESIGN AND CONSTRUCTION TO BE COMPLETED IN ACCORDANCE WITH LOS ANGELES RESEARCH REPORT RR25536, DATED FEBRUARY 1, 2016.
17. SPECIAL INSPECTIONS MUST BE PROVIDED FOR ALL FRP INSTALLMENTS. SEE SPECIAL INSPECTION SECTION, THIS SHEET.

RATIO OF EDGE DISTANCE TO FRP FASTENER DIAMETER		
	RANGE	RECOMMENDED
EDGE DISTANCE - CL* BOLT TO END	2.0-4.0	3.0
EDGE DISTANCE - CL* BOLT TO SIDE	1.5-3.5	2.5
BOLT PITCH - CL* TO CL*	4.0-5.0	5.0

WOOD CONSTRUCTION NOTES:

1. ALL EXISTING WOOD SHAPES ARE ASSUMED TO BE DOUGLAS FIR-LARCH WITH A REFERENCE DESIGN BENDING VALUE OF 1000 PSI MIN.
2. ALL PROPOSED WOOD SHAPES ARE TO BE DOUGLAS FIR-LARCH WITH A REFERENCE DESIGN BENDING VALUE OF 1000 PSI MIN. U.N.O.
3. ALL EXISTING AND PROPOSED GLUED LAMINATED TIMBERS ARE TO BE 24F-1.8C DOUGLAS FIR BALANCED WITH A REFERENCE DESIGN BENDING VALUE OF 2400 PSI MIN. U.N.O.

MASONRY CONSTRUCTION NOTES:

1. ALL BRICK TO BE 1500 PSI MIN. REINFORCING BAR (IF APPLICABLE) TO CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS. ALL MORTAR TO BE 2000 PSI MIN.
 - FOR INTERIOR/ABOVE GRADE APPLICATIONS TYPE N MORTAR HAVING MINIMUM MODULUS OF RUPTURE OF 100 PSI SHALL BE USED. FOR EXTERIOR/BELOW GRADE APPLICATIONS TYPE M OR S MORTAR HAVING A MINIMUM MODULUS OF RUPTURE OF 133 PSI.
 - BRICK AND MORTAR INSTALLATION TO CONFORM TO MSJC BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES.
2. ALL CMU TO BE 1500 PSI MIN. REINFORCING BAR (IF APPLICABLE) TO CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS. ALL MORTAR TO BE 2000 PSI MIN.
 - FOR INTERIOR/ABOVE GRADE APPLICATIONS, TYPE N MORTAR HAVING MINIMUM MODULUS OF RUPTURE OF 64 PSI SHALL BE USED FOR UNGROUTED BLOCKS, AND 158 PSI FOR FULLY GROUTED BLOCKS.
 - FOR EXTERIOR/BELOW GRADE APPLICATIONS TYPE M OR S MORTAR HAVING A MINIMUM MODULUS OF RUPTURE OF 84 PSI SHALL BE USED FOR UNGROUTED BLOCKS, AND 163 PSI FOR FULLY GROUTED BLOCKS.
 - BRICK AND MORTAR INSTALLATION TO CONFORM TO MSJC BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES.

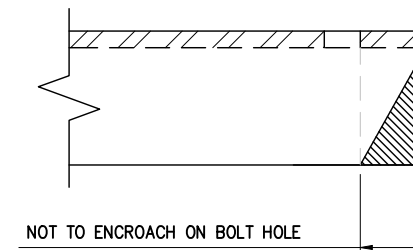
TOWER PLUMB & TENSION NOTES:

1. PLUMB AND TENSION TOWER UPON COMPLETION OF STRUCTURAL MODIFICATIONS DETAILED IN THESE DRAWINGS.
2. RETENSIONING OF EXISTING GUY WIRES SHALL BE PERFORMED AT A TIME WHEN THE WIND VELOCITY IS LESS THAN 10 MPH AT GROUND LEVEL AND WITH NO ICE ON THE STRUCTURE AND GUY WIRES.
3. PLUMB THE TOWER WHILE RETENSIONING THE EXISTING GUY WIRES. THE HORIZONTAL DISTANCE BETWEEN THE VERTICAL CENTERLINES AT ANY TWO ELEVATIONS SHALL NOT EXCEED 0.25% OF THE VERTICAL DISTANCE BETWEEN TWO ELEVATIONS FOR LATTICED STRUCTURES.
4. THE TWIST BETWEEN ANY TWO ELEVATIONS THROUGHOUT THE HEIGHT OF A LATTICE STRUCTURE SHALL NOT EXCEED 0.5 DEGREES IN 10 FEET. THE MAXIMUM TWIST OVER THE LATTICE STRUCTURE HEIGHT SHALL NOT EXCEED 5 DEGREES.

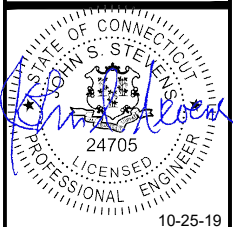
SPECIAL INSPECTIONS NOTES:

1. A QUALIFIED INDEPENDENT TESTING LABORATORY, EMPLOYED BY THE OWNER AND APPROVED BY THE JURISDICTION, SHALL PERFORM INSPECTION AND TESTING IN ACCORDANCE WITH THE THE GOVERNING BUILDING CODE, APPLICABLE SECTION(S) AS REQUIRED BY PROJECT SPECIFICATIONS FOR THE FOLLOWING CONSTRUCTION WORK:
 - a. STRUCTURAL WELDING (CONTINUOUS INSPECTION OF FIELD WELDS ONLY).
 - b. HIGH STRENGTH BOLTS (PERIODIC INSPECTION OF A325 AND/OR A490 BOLTS) TO BE TIGHTENED PER "TURN-OF-THE-NUT" METHOD.
 - c. MECHANICAL AND EPOXIED ANCHORAGES.
 - d. FIBER REINFORCED POLYMER.
 - THE SPECIAL INSPECTOR MUST VERIFY THAT THE FRP MATERIAL SPECIFIED ON THE APPROVED DESIGN DOCUMENTS IS BEING INSTALLED.
 - THE SPECIAL INSPECTOR MUST VERIFY THAT ALL CUT EDGES AND DRILLED HOLES ARE PROPERLY SEALED USING A VINYL ESTER SEALING KIT SUPPLIED BY THE MANUFACTURER.
 - THE SPECIAL INSPECTOR MUST VERIFY THAT THE STRUCTURE IS BUILT IN ACCORDANCE WITH THE APPROVED DESIGN DOCUMENTS.
2. THE INSPECTION AGENCY SHALL SUBMIT INSPECTION AND TEST REPORTS TO THE BUILDING DEPARTMENT, THE ENGINEER OF RECORD, AND THE OWNER UNLESS THE FABRICATOR IS APPROVED BY THE BUILDING OFFICIAL TO PERFORM WORK WITHOUT THE SPECIAL INSPECTIONS.

MAXIMUM ALLOWABLE ANGLE CLIP



INFINIGY
 INFINIGY ENGINEERING, PLLC
 1033 Waterlief Shaker Rd
 Albany, NY 12205
 Office # (518) 690-0790
 Fax # (518) 690-0793



UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF APPLICABLE STATE AND/OR LOCAL LAWS

No.	ISSUED FOR REVIEW	TM	10/18/19
	Submital / Revision	App'd	Date
Drawn:	LAM	Date:	10/18/19
Designed:	TM	Date:	10/18/19
Checked:	BA	Date:	10/18/19
Project Number: 1106-A0001-B			

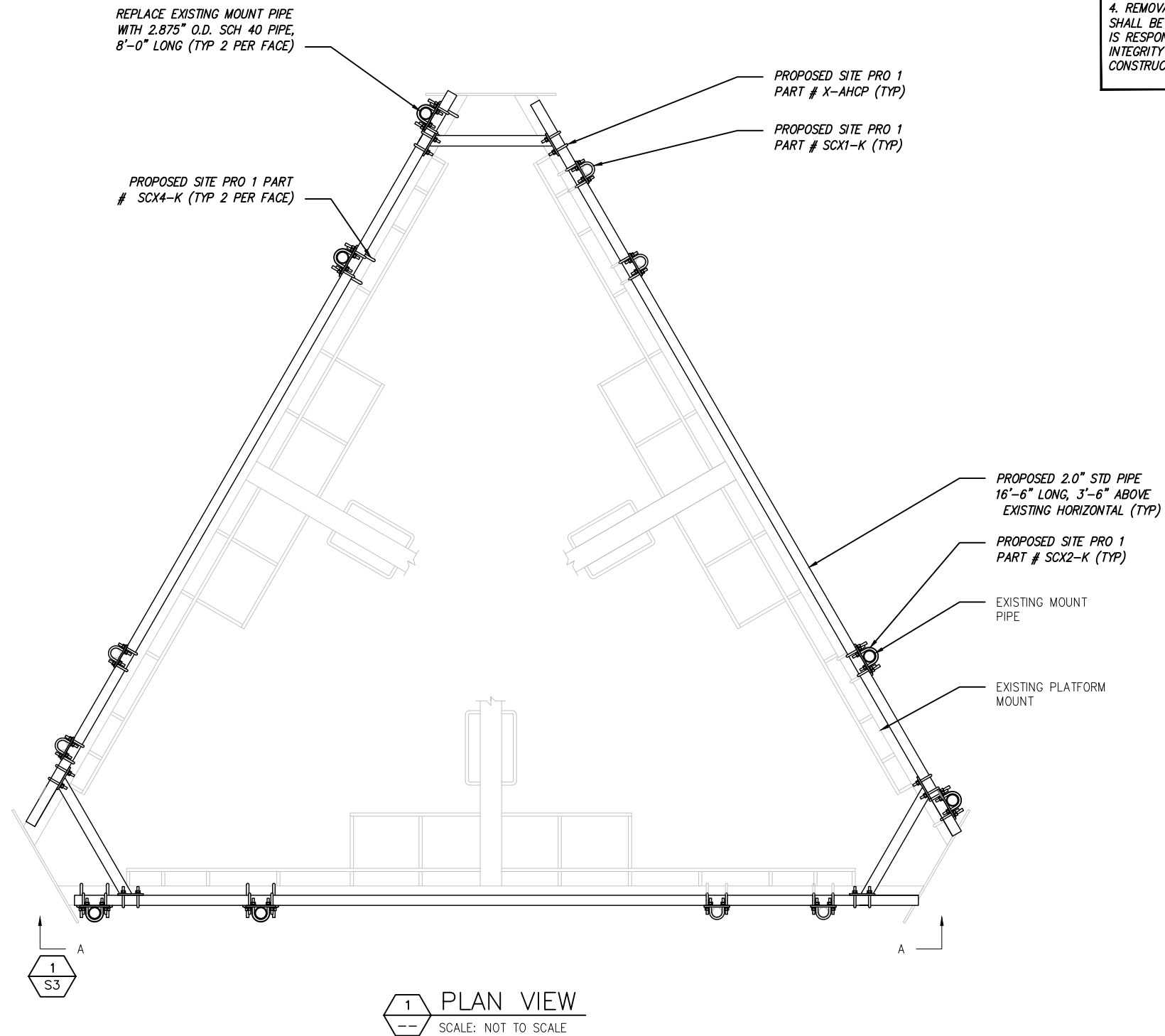
Project Title:
SCOTLAND
-HUNTINGTON ROAD
CTL01242
FA# 10050915
 165 HUNTINGTON ROAD
 SCOTLAND, CT 06264



Drawing Scale:
 AS NOTED
 Date:
 10/18/19

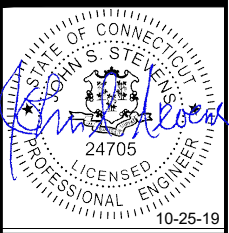
Drawing Title
GENERAL NOTES

Drawing Number
S1



1. VARIOUS EXISTING CONDITIONS AND PROPOSED MODIFICATIONS NOT SHOWN FOR CLARITY.
2. ALL DESIGNATED PARTS / PART NUMBERS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
3. MODIFICATIONS SHOWN ARE FOR ENTIRE PLATFORM MOUNT.
4. REMOVAL/REPLACEMENT OF STRUCTURAL MEMBERS SHALL BE DONE ONE MEMBER AT A TIME. CONTRACTOR IS RESPONSIBLE FOR ENSURING THE STRUCTURAL INTEGRITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

INFINIGY
 INFINIGY ENGINEERING, PLLC
 1033 Watervliet Shaker Rd
 Albany, NY 12205
 Office # (518) 690-0790
 Fax # (518) 690-0793



10-25-19
 UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF APPLICABLE STATE AND/OR LOCAL LAWS

No.	Issued For Review	TM	10/18/19
0	ISSUED FOR REVIEW	TM	10/18/19
No.	Submittal / Revision	App'd	Date
Drawn:	LAM	Date:	10/18/19
Designed:	TM	Date:	10/18/19
Checked:	BDA	Date:	10/18/19
Project Number: 1106-A0001-B			

Project Title:
 SCOTLAND
 -HUNTINGTON ROAD
 CTL01242
 FA# 10050915
 165 HUNTINGTON ROAD
 SCOTLAND, CT 06264



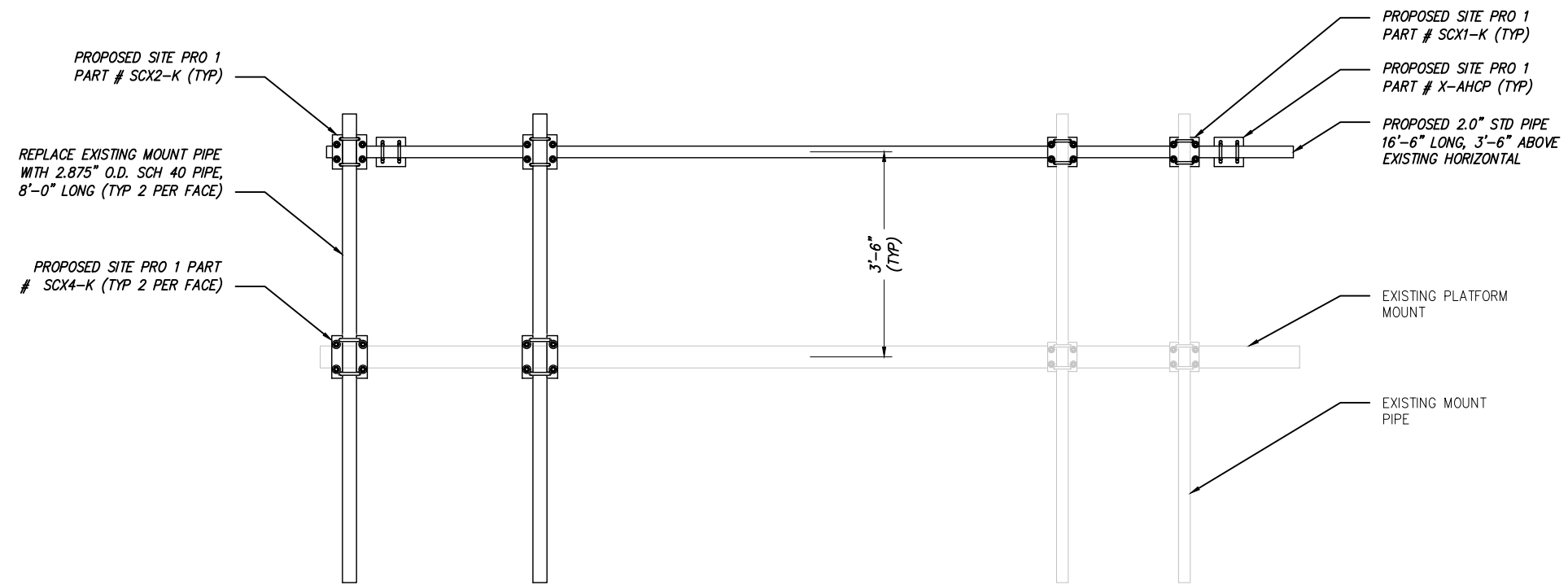
Drawing Scale:
 AS NOTED

Date:
 10/18/19

0

Drawing Title
**MOUNT
 MODIFICATION
 DETAILS**

Drawing Number
S2



SECTION A-A
SCALE: NOT TO SCALE



UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF APPLICABLE STATE AND/OR LOCAL LAWS

No.	ISSUED FOR REVIEW	TM	10/18/19
0	Submittal / Revision	App'd	Date
Drawn:	LAM	Date:	10/18/19
Designed:	TM	Date:	10/18/19
Checked:	BDA	Date:	10/18/19

Project Number: 1106-A0001-B

Project Title:
 SCOTLAND
 -HUNTINGTON ROAD
 CTL01242
 FA# 10050915
 165 HUNTINGTON ROAD
 SCOTLAND, CT 06264



Drawing Scale: AS NOTED
 Date: 10/18/19
 0

Drawing Title
**SECTION CUT
 A-A**

Drawing Number
S3