

January 29, 2024

Melanie A. Bachman
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

RE: Notice of Exempt Modification for ATT: CTL05378
Crown Site ID# 842869
450 West Main St, Meriden, CT 06451
Latitude: 41° 32' 23.61" / Longitude: -72° 49' 8.04"

Dear Ms. Bachman:

ATT currently maintains twelve (12) antennas at the 100-foot mount on the existing 100-foot monopole tower located at 450 West Main St, Meriden, CT. The property is owned by Hunter Family LLC, and the tower is owned by Crown Castle. ATT now intends to replace twelve (12) antennas, replace three (3) remote radios and ancillary equipment at the 100ft level. This modification/proposal includes hardware that is both 4G (LTE) and 5G capable through remote software configuration and either or both services may be turned on or off at various times.

Panned Modification:

Tower:

Install New:

- (3) Quintel – QD6616-7 Antenna
- (6) Ericsson – Air6449 B77D+Air6419 B77G Stacked Antennas
- (3) CCI – OPA65R-BU6DA Antennas
- (3) Ericsson – 4449 B5/B12 RRUs
- (1) Raycap – DC9-48-60-24-8C-EV Squid
- (1) 7/8" 6AWG DC Cable
- (1) 3/8" 24 Pair Fiber Cable
- (3) Y – Cables
- (1) Andrew – PR-RR-RM1560 Collar Mount W/SCH 40 Long Pipes

Remove:

- (3) KMW AM-X-CD-16-65-00T-RET Antennas
- (3) CCI – OPA65R-LCUU-H6 Antennas
- (3) Quintel-QS66512-2 Antennas
- (3) Katherin – 800 10965 K Antennas
- (3) Ericsson –RRUs-11 B12 RRUs
- (3) CCI – DTMABP7819VG12A TMAs
- (1) Raycap – DC6-48-60-0-8F Squid

The Foundation for a Wireless World.

CrownCastle.com

(1) Platform Mount

Ground:

Install New:

- (1) H-Frame
- (5) Rectifiers
- (1) Battery Cabinet
- (3) 150AH Batter Strings
- (1) RadioCap – DC12
- (3) Ericsson-2012 B29 RRUs
- (1) 6651 BB + Xcede Cable

Remove:

- (1) UMTS Cabinet
- (6) Power Wave CM1007-DBPXBC Diplexers

The facility was approved by the Connecticut Siting Council Petition NO.614 on March 11, 2003.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Kevin Scarpati – Mayor, City of Meriden, Monica Sims, Director of Planning & Enforcement, City of Meriden, Hunter Family LLC, Property Owner, and Crown Castle is the tower owner.

1. The proposed modifications will not result in an increase in the height of the existing tower.
2. The proposed modifications will not require the extension of the site boundary.
3. The proposed modification will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communication Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, ATT respectfully submits that the proposed modifications to the above-reference telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2). Please send approval/rejection letter to Attn: Jeffrey Barbadora.

Melanie A. Bachman

Page 3

Sincerely,



Jeffrey Barbadora
Site Acquisition Specialist
1800 W. Park Drive
Westborough, MA 01581
(781) 970-0053
Jeff.Barbadora@crowncastle.com

Attachments

cc:

Kevin Scarpati – Mayor
City of Meriden
142 East Main Street
Meriden, CT 06450
(203) 630-4000

Monica Sims - Director of Planning & Enforcement
City of Meriden
142 East Main Street
Meriden, CT 06450
(203) 630-4081

Hunter Family LLC
51 B SO Vine St
Meriden, CT 06451

Crown Castle - Tower Owner

Petition No. 614
AT&T Wireless PCS, LLC
Staff Report
March 11, 2003

On March 5, 2003, Connecticut Siting Council (Council) member Philip T. Ashton and Christina Lepage of the Council staff met with AT&T Wireless PCS, LLC (AT&T) representatives Anthony Gioffre III, and Charisma King at 450-478 West Main Street, Meriden, Connecticut for the inspection of an existing tower site. The existing property and structure are owned by Hunters Family Limited Partnership. AT&T proposes to replace the existing structure and is petitioning the Council for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need (Certificate) is required for the modification.

The existing facility consists of a 100-foot guyed lattice tower, which is currently used by Hunter's Ambulance Company. AT&T proposes to replace the existing guyed lattice tower with a 100-foot monopole approximately 15 feet to the southeast. Existing antennas used by the ambulance company would be relocated to the top of the monopole. AT&T proposes to install 6 panel antennas at the 100-foot level of the proposed monopole. The proposed monopole would be designed to accommodate the antennas of two additional carriers.

The proposed equipment would be located at the base of the tower within 7-foot by 16-foot equipment pad. An 8-foot high stockade fence would surround the equipment compound. AT&T proposes to install a retaining wall along the southern portion of the equipment compound.

Access to the site would be via an existing driveway. AT&T proposes to provide utilities to the site overhead from an existing utility pole to the south. The utility corridor would cross over property recently purchased by Hunter's Ambulance Company. Two new poles would be necessary to install a utility line to the site. AT&T submits that the proposed overhead utility installation would cause the least amount of disturbance to the site and surrounding area, due to the presence of bedrock, sidewalks and a parking lot.

Surrounding land uses include a mix of residential and commercial uses. The proposed site is zoned Commercial. The calculated cumulative worst-case radio frequency power density would not exceed the applicable standard.

AT&T contends that it would not need to construct a telecommunications tower to provide coverage to this area of Meriden, and the proposed modification of the existing structure would not cause a substantial adverse environmental effect. Staff recommends approval, with the condition that the tower be situated so as to avoid the removal of an existing tree.



CITY OF MERIDEN

GIS Services

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PROPERTY INFORMATION

Location: **450 WEST MAIN ST** Map/Lot: 0612-0202-0001-0002

OWNER INFORMATION

Owner(s): HUNTER FAMILY LLC
Owner Address: 51 B SO VINE ST
MERIDEN, CT 06451

BUILDING INFORMATION

Card Number: 1

OVERVIEW

Building ID	9661
Finished Area	28,934
Comm/Rental Units	1
Living Units	0
Building Type	Mixed Use-M
Year Built	1980
Effective Yr Built	
Building Number	1

INTERIOR DETAILS

Rooms	
BedRooms	
Full Bath	0
Full Bath Rating	
Half Bath	0
Half Bath Rating	
Kitchens	0
Kitchen Rating	
Fireplaces	0

CONSTRUCTION DETAILS

Exterior	Brick
Roof Structure	Gable
Roof Cover	Architectural
Quality	C+
Heat Fuel	Oil
Heat Type	Forced Air
Prct. Heated	100.00
Prct. AC	50.00
Stories	2 story
Foundation	Concrete

Building Area Summary

No Sub Area data found

Outbuildings & Special Features

No Special Features found.

APPRAISAL INFORMATION

Grand List Year: 2022

Land Appraised	Building Appraised	Outbuilding Appraised	Total Appraised Value	Land Assessed	Building Assessed	Outbuilding Assessed	Special Land Value	Total Assessed Value
\$476,000	\$1,544,300	\$241,500	\$2,261,800	\$333,200	\$1,081,010	\$169,050	\$0	\$1,583,260

Previous Year: 2021

Land Appraised	Building Appraised	Outbuilding Appraised	Appraised Value	Land Assessed	Building Assessed	Outbuilding Assessed	Assessed Value
\$476,000	\$1,496,400	\$241,500	\$2,213,900	\$333,200	\$1,047,480	\$169,050	\$1,549,730

LAND INFORMATION

Land Use	Zoning	Land Area	Code	Neighborhood Description
Comm Bldg	C-2	2.60069	C4A	OUTER W. MAIN

*Confirm zoning with Planning Office.
[Zoning map](#) is the official document to determine zone.

SALES INFORMATION

Sale Date	Sale Price	Book	Page	Grantor	Grantee	Deed Type
3/31/2023		5492	371	HUNTER FAMILY LTD PRTSHP	HUNTER FAMILY LLC	Change Na
12/31/1997	\$650,000	2322	336		HUNTER FAMILY LTD PRTSHP	

ASSESSOR'S PERMIT HISTORY

This feature has been removed from the Assessor Property Card. To search building permits, [Go to Building Permit Search](#). The new building permit search app is part of our new [GIS Portal](#).

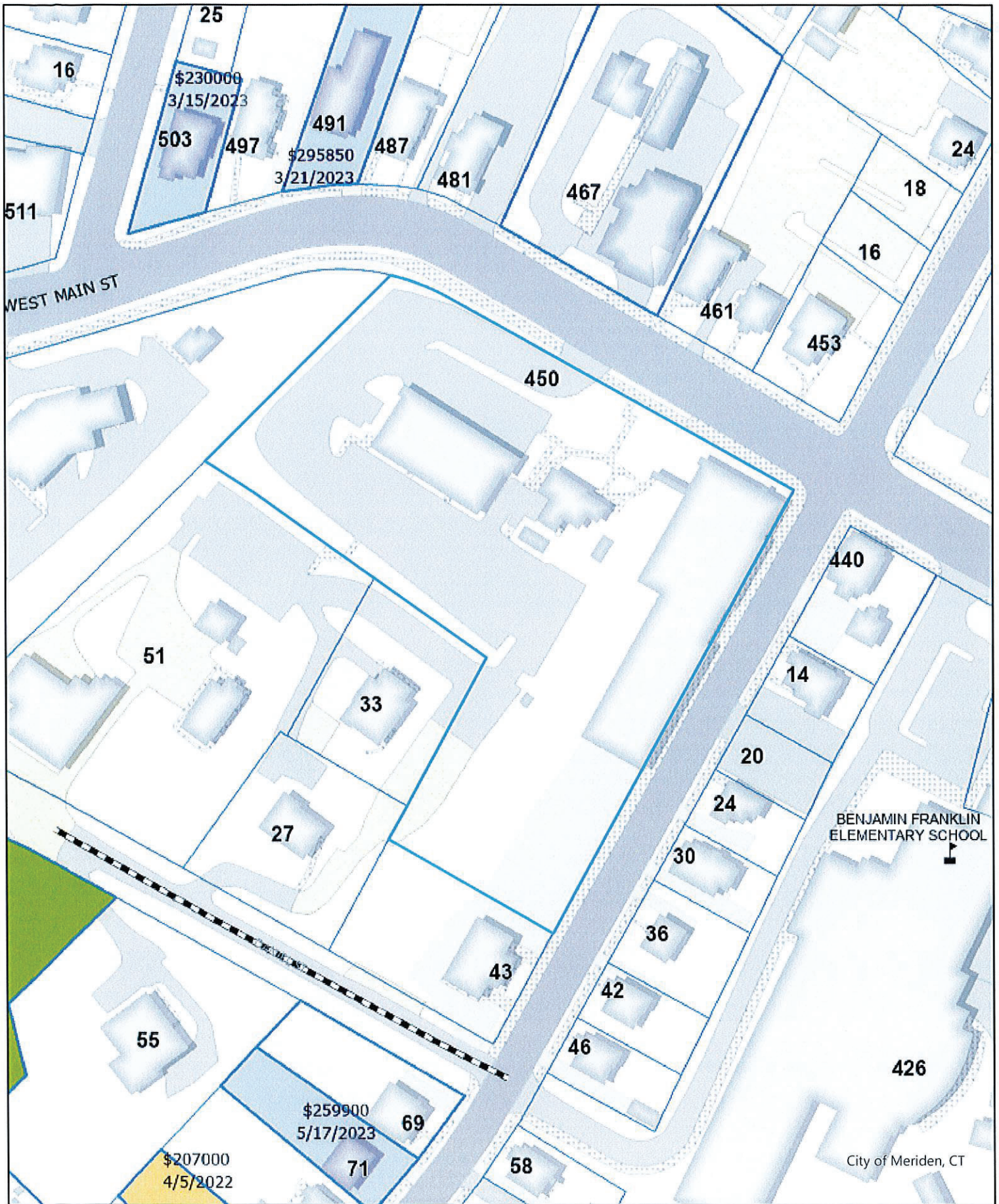
PROPERTY IMAGES

No images found

No images found

9663
 0612-0202-0001-0002
 1

Date	Permit#	Description	Permit Type	Status	Cost
5/10/2017	B-17-334	REPLACE ROOF.		Closed	\$31,275
4/21/2017	B-17-267	REPLACE ANTENNA PANELS.ADD REMOTE RADIO HEADS TO CELL TOWER.		Closed	\$15,000
3/6/2017	B-17-109	AT&T REPLACE 3 ANTENNA & 3 RRU'S TO EXISTING EQUIPMENT.		Closed	\$20,000
7/15/2016	B-16-659	REPLACE 3 ANTENNAI W/NEW.		Closed	\$19,450
9/24/2015	B-15-743	AT&T ADD 3 ANTENNAE/3 RRU' S/1 FIBER LINE TO EXISTING EQUIPMENT ON TOWER.		Closed	\$20,000
6/22/2015	E-15-295	INSTALL NEW 150A SERVICE (VERIZON),APPROVED BY BLDG DEPT.		Closed	\$25,000
5/18/2015	E-15-210	NEW 200A/3PH/4W/ SERVICE FROM MDP TO SHELTER BLDG.		Closed	\$5,000
4/6/2015	P-15-64			Closed	\$10,000
2/20/2015	B-15-61	INSTALL ANTENNAE & GROUND EQUIPMENT FOR VERIZON WIRELESS TELE.		Closed	\$75,000
1/5/2015	B-14-285	ADD ANTENNAE TO EXISTING TOWER		Closed	\$15,000
7/21/2014	2157			Closed	\$30,000
6/6/2014	1664			Closed	\$8,000
6/6/2014	1665			Closed	\$1,000
2/25/2013	473	SPRINT - MODIF. TO TELEC. INSTALLATION ON MONOPOLE TOWER, REPL. 3 ANTENNA & CABLES AND ADD RRH'S AND NOTCH FILTERS BEHIND THE NEW ANTENNA ON TOWER, ADD CIENA EQUIP. ENCL. & FIBER JUNCTION BOX & EITHER RETROFIT OR REPLACE BTS CABINET WITHIN EQUIP. SHELTER.		Closed	\$30,000
12/21/2012	3950	AT&T - REMOVE & REPLACE ONE D.C. POWER CABINET, INSTALL NEW LTE EQUIPMENT ON OPEN SLAB, CONDUITS, AC & DC CIRCUITS, FIBER OPTICS, GROUNDING & BONDING.		Closed	\$3,800
11/1/2012	3422	AT&T - ADD 3 LTE ANTENNAS, SURGE ARRESTOR, RRU'S, PURCELL CABINET, CONCRETE PAD & DC/FIBER LINES		Closed	\$25,000
12/5/2003	4261	200 AMP SERV	CA	Closed	\$9,400
12/5/2003	4261	AT&T WIRELESS CELLSITE	CA	Closed	\$9,400
8/28/2003	3042	REP EX COMMUNI TOWER	CA	Closed	\$125,000
8/28/2003	3042	INSTALL COMMUNICA EQUIPME	CA	Closed	\$125,000
1/1/1900	3042	INSTALL COMMUNICA EQUIPME	CA	Closed	\$125,000
1/1/1900	4261	200 AMP SERV	CA	Closed	\$9,400
1/1/1900	3042	REP EX COMMUNI TOWER	CA	Closed	\$125,000
1/1/1900	4261	AT&T WIRELESS CELLSITE	CA	Closed	\$9,400



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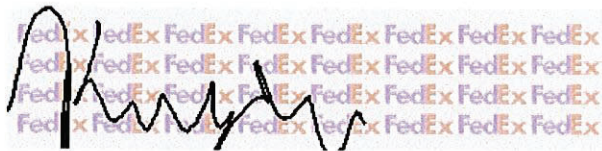
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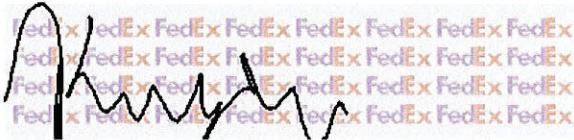
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Monica Sims - Dir of Planning & Enf

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TO Property Owner
Hunter Family LLC
51 B SO Vine St
MERIDEN, CT, US, 06451

DOOR TAG NUMBER DT106824914137

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SHIPPER REFERENCE 799001.7680

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Date: **November 02, 2023**

MTS Engineering, P.L.L.C.
1717 S. Boulder, Suite 300
Tulsa, OK 74119
(918) 587-4630

Subject: **Structural Analysis Report**

Carrier Designation: **AT&T Mobility Co-Locate**
Site Number: CT5378
FA Number: 10071118

Crown Castle Designation: **BU Number:** 842869
Site Name: MERIDEN WEST CENTRAL
JDE Job Number: 686239
Work Order Number: 2234515
Order Number: 586269 Rev. 7

Engineering Firm Designation: **Project Number:** 92699.012.01.0001

Site Data: **450-478 West Main Street, Meriden, New Haven County, CT**
Latitude 41° 32' 24.11", Longitude -72° 49' 8.47"
100 Foot - Monopole Tower

We are pleased to submit this “**Structural Analysis Report**” to determine the structural integrity of the above-mentioned tower.

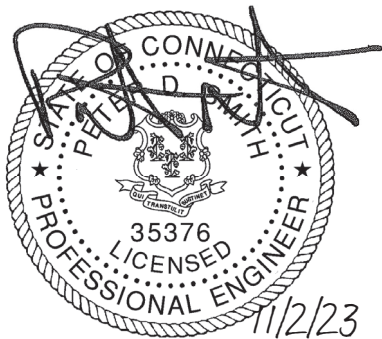
The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC7: Proposed Equipment Configuration **Sufficient Capacity-47.8%**

This analysis utilizes an ultimate 3-second gust wind speed of 119 mph as required by the 2022 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: XXXXXXXX

Respectfully submitted by: MTS Engineering, P.L.L.C.
COA: PEC.0001564; Expires: 02/01/2024



Peter D. Smith, P.E.

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1) INTRODUCTION

This is a 100 ft Monopole designed by Glen Martin Engineering, Inc. in June of 2003.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	119 mph
Exposure Category:	B
Topographic Factor:	1
Ice Thickness:	1 in
Wind Speed with Ice:	50 mph
Service Wind Speed:	60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
100.0	101.0	3	Ericsson	AIR 6419 B77G_CCIV3	6 1 6 3	1-1/4 7/8 13/16 3/8
	100.0	1	Kenwood Telecom.	T1541KT14H-12120-M-H3 Platform Mount		
	99.0	3	CCI Antennas	OPA65R-BU6D		
		3	Ericsson	2012 B29		
		3	Ericsson	RRUS 32 B2		
		3	Ericsson	RRUS 32 B30		
		3	Ericsson	RRUS 32 B66		
		3	Ericsson	RRUS 4449 B5/B12		
		3	Ericsson	RRUS 4478 B14		
		3	Quintel Tech.	QD6616-7		
		2	Raycap	DC6-48-60-18-8F		
	1	Raycap	DC9-48-60-24-8C-EV_CCIV2			
	97.0	3	Ericsson	AIR 6449 B77D_CCIV2		

Table 2 - Other Considered Equipment

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
100.0	111.0	1	RFS Celwave	1150-1	8	1/2
	110.0	1	Maxrad	MFB-8137		
	109.0	1	Decibel	DB201-A		
	108.0	1	Decibel	DB201-A		
	106.0	1	Decibel	DB201-A		
	96.0	4	Decibel	DB432-A		
88.0	89.0	3	Ericsson	AIR -32 B2A/B66AA	4 6	1-5/8 7/8
		3	Ericsson	AIR6449 B41		
		3	Ericsson	ERICSSON AIR 21 B2A B4P		
		3	Ericsson	KRY 112 144/1		
	88.0	1	--	Platform Mount		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
	87.0	3	Ericsson	[LP 305-1_HR-1] RADIO 4449 B71 B85A_ T-MOBILE		
		3	Ericsson	RRUS 4415 B25		
		3	RFS Celwave	APXVAARR24_43-U-NA20		
80.0	80.0	3	Alcatel Lucent	1900MHz RRH	--	--
		3	Alcatel Lucent	800 External Notch Filter		
		3	Alcatel Lucent	TME-800MHZ RRH		
		1	--	Side Arm Mount [SO 104-3]		
78.0	80.0	3	RFS Celwave	APXVTM14-C-120	3 1 1	1-1/4 5/8 Elliptical
		3	Alcatel Lucent	TD-RRH8x20-25		
	79.0	3	RFS Celwave	APXVSP18-C-A20		
	78.0	1	--	Platform Mount [LP 303-1]		
65.0	65.0	1	Site Pro1	VZSMART-PLK1 Support Rail Kit	2	1-5/8
		3	Antel	BXA-70063/6CF		
		6	JMA Wireless	MX06FRO660-03		
		2	Raycap	RVZDC-3315-PF-48		
		2	RFS Celwave	DB-T1-6Z-8AB-0Z		
		3	Samsung Telecom.	MT6407-77A		
		3	Samsung Telecom.	RF4439D-25A		
		3	Samsung Telecom.	RF4440D-13A		
1	--	Platform Mount [LP 303-1]				
55.0	55.0	3	JMA Wireless	MX08FRO665-21	1	1-3/8
		1	Raycap	RDIDC-9181-PF-48		
		3	Fujitsu	TA08025-B604		
		3	Fujitsu	TA08025-B605		
		1	Commscope	MC-PK8-DSH Platform		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
Tower Manufacturer Drawing	4713237	CCI Sites
Foundation Drawings	4529387	CCI Sites
Geotech Report	4529388	CCI Sites
Crown CAD Package	Date: 11/01/2023	CCI Sites

3.1) Analysis Method

tnxTower (version 8.1.1.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has

calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 standard.

3.2) Assumptions

- 1) The tower and structures were maintained in accordance with the - TIA-222 standard.
- 2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.

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

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L1	100 - 47	Pole	TP40.72x28x0.313	1	-27.309	2386.104	24.7	Pass
L2	47 - 0	Pole	TP51.37x38.655x0.375	2	-41.858	3747.093	37.6	Pass
							Summary	
						Pole (L2)	37.6	Pass
						Rating =	37.6	Pass

Table 5 - Tower Component Stresses vs. Capacity - LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1,2	Anchor Rods	Base	30.7	Pass
1,2	Base Plate	Base	25.2	Pass
1,2	Base Foundation (Structure)	Base	18.4	Pass
1,2	Base Foundation (Soil Interaction)	Base	47.8	Pass

Structure Rating (max from all components) =	47.8%
---	--------------

Notes:

- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.
- 2) Rating per TIA-222-H Section 15.5.

4.1) Recommendations

The tower and its foundation have sufficient capacity to carry the proposed load configuration. No modifications are required at this time.

APPENDIX A
TNXTOWER OUTPUT

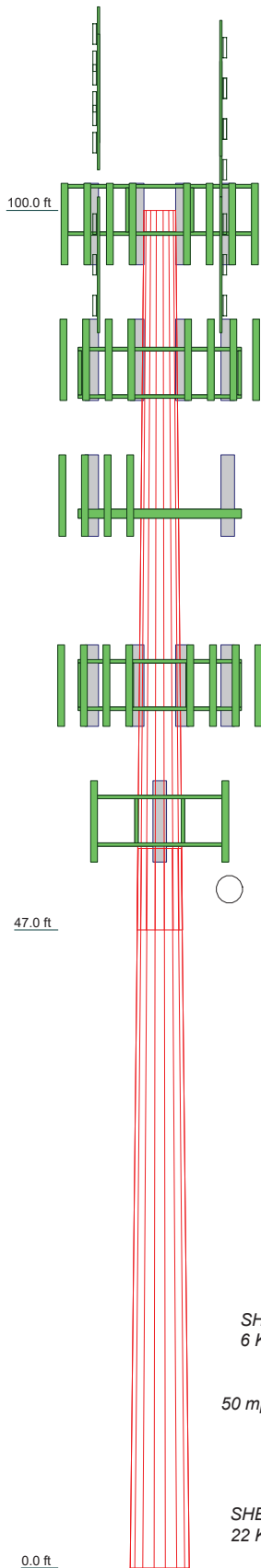
MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

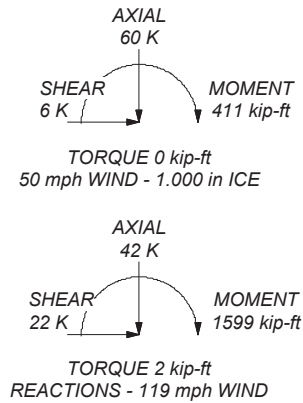
TOWER DESIGN NOTES


1. Tower is located in New Haven County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-H Standard.
3. Tower designed for a 119 mph basic wind in accordance with the TIA-222-H 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 Risk Category II.
7. Topographic Category 1 with Crest Height of 0.000 ft
8. TIA-222-H Annex S
9. TOWER RATING: 37.6%

Section	1	2
Length (ft)	53.000	53.000
Number of Sides	16	16
Thickness (in)	0.313	0.375
Socket Length (ft)	6.000	38.655
Top Dia (in)	28.000	51.370
Bot Dia (in)	40.720	
Grade	A572-65	
Weight (K)	6.1	9.6
		15.8



ALL REACTIONS
ARE FACTORED




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 Tulsa, OK 74119
 Phone: (918) 587-4630
 FAX: (918) 295-0265

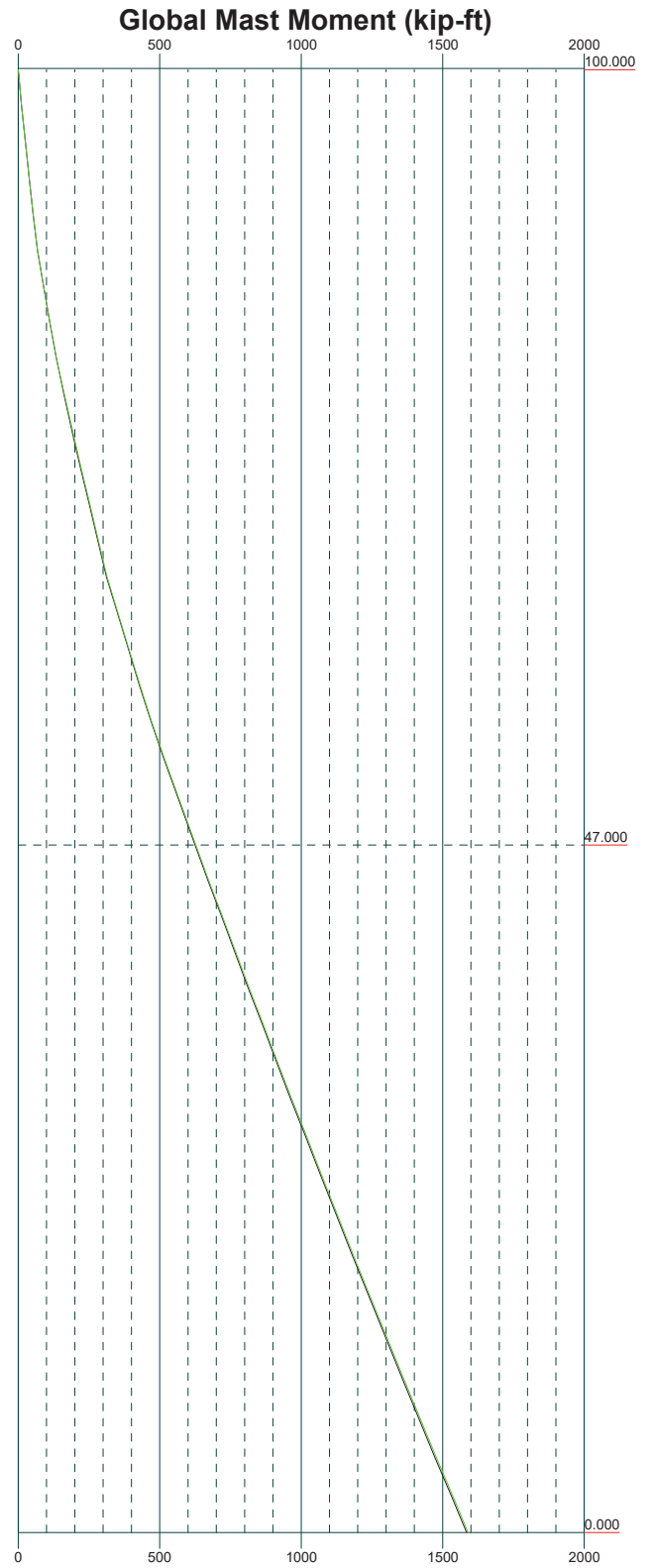
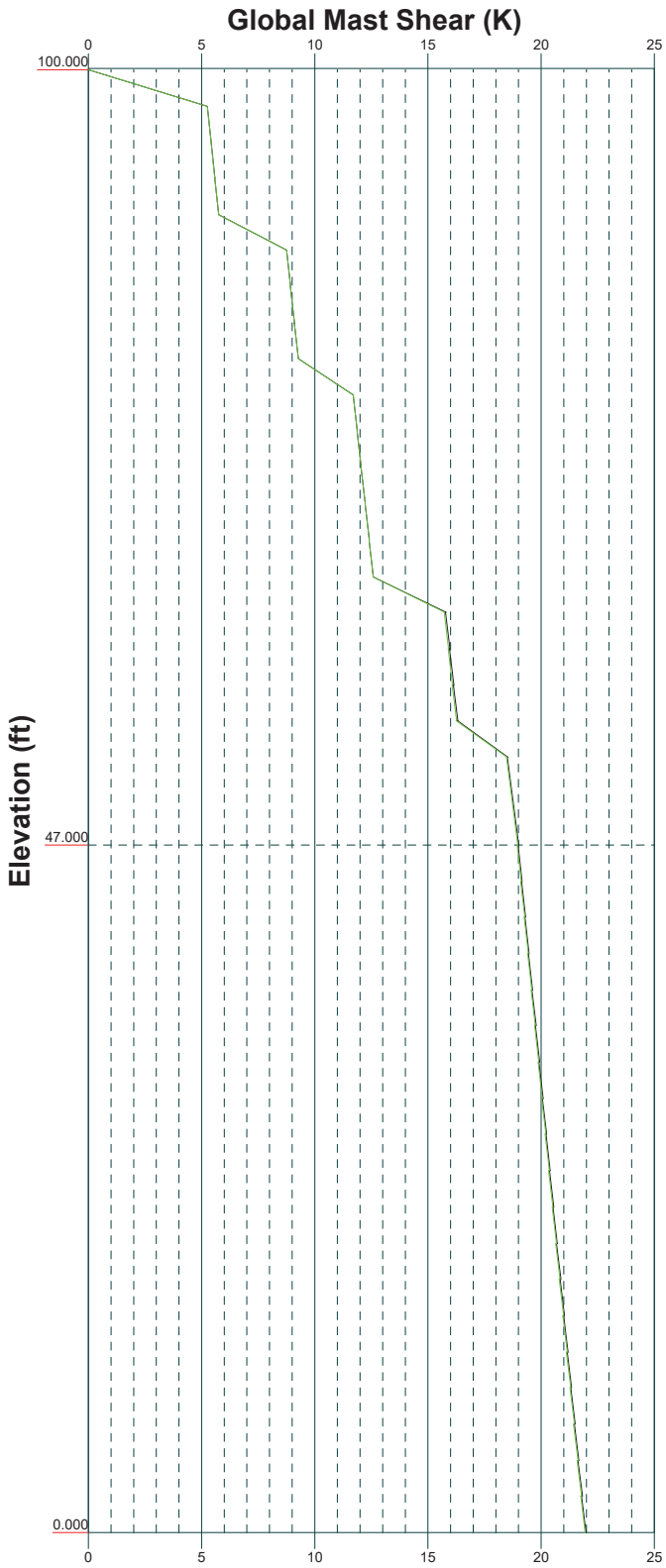
Job:	92699.012.01.0001 - MERIDEN WEST CENTRAL, CT (BU# 84286)		
Project:			
Client:	Crown Castle	Drawn by:	Rakshak
Code:	TIA-222-H	Date:	11/02/23
Path:		Scale:	NTS
		Dwg No.	E-1

Vx

Vz

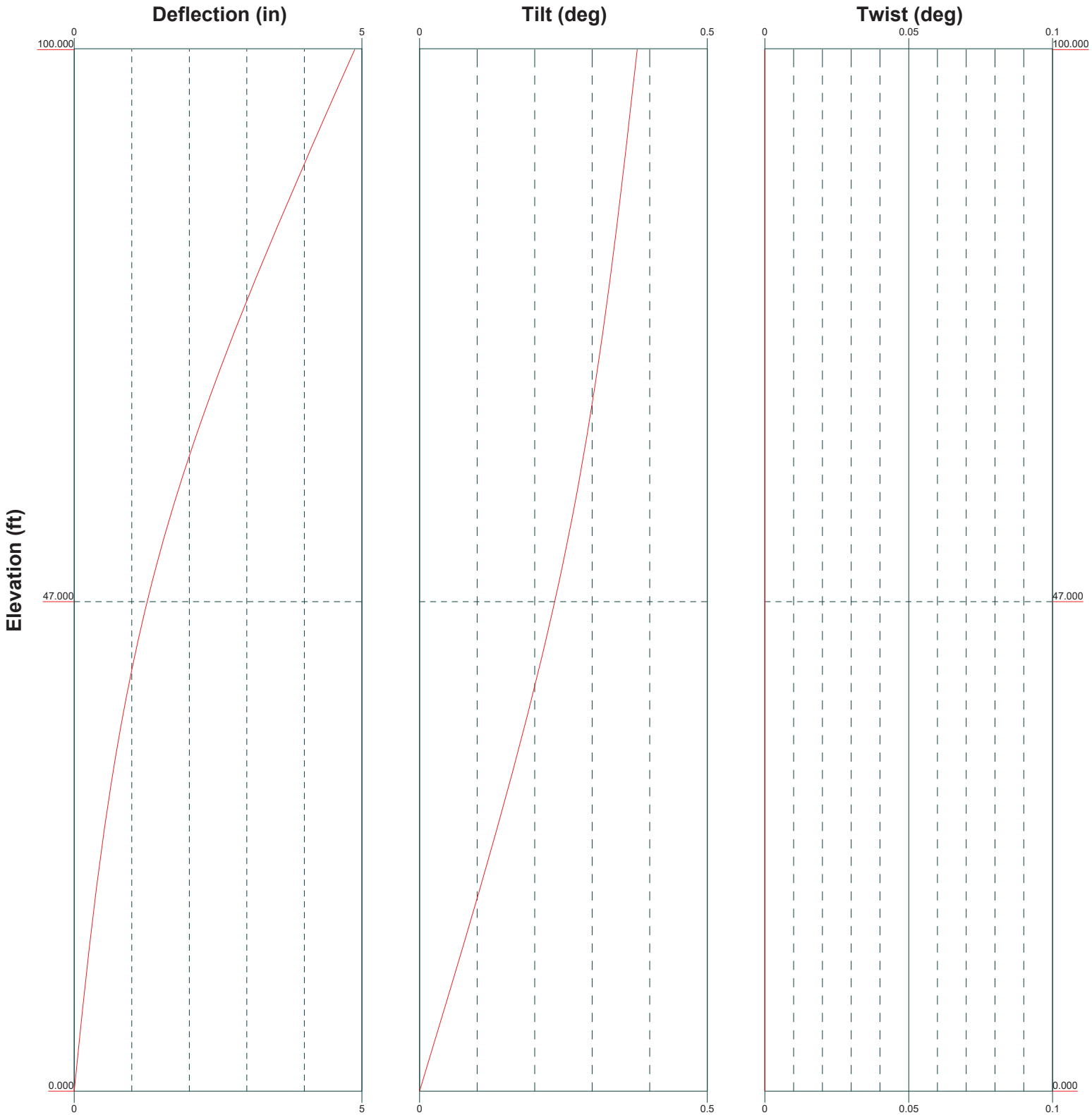
Mx

Mz



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 FAX: (918) 295-0265

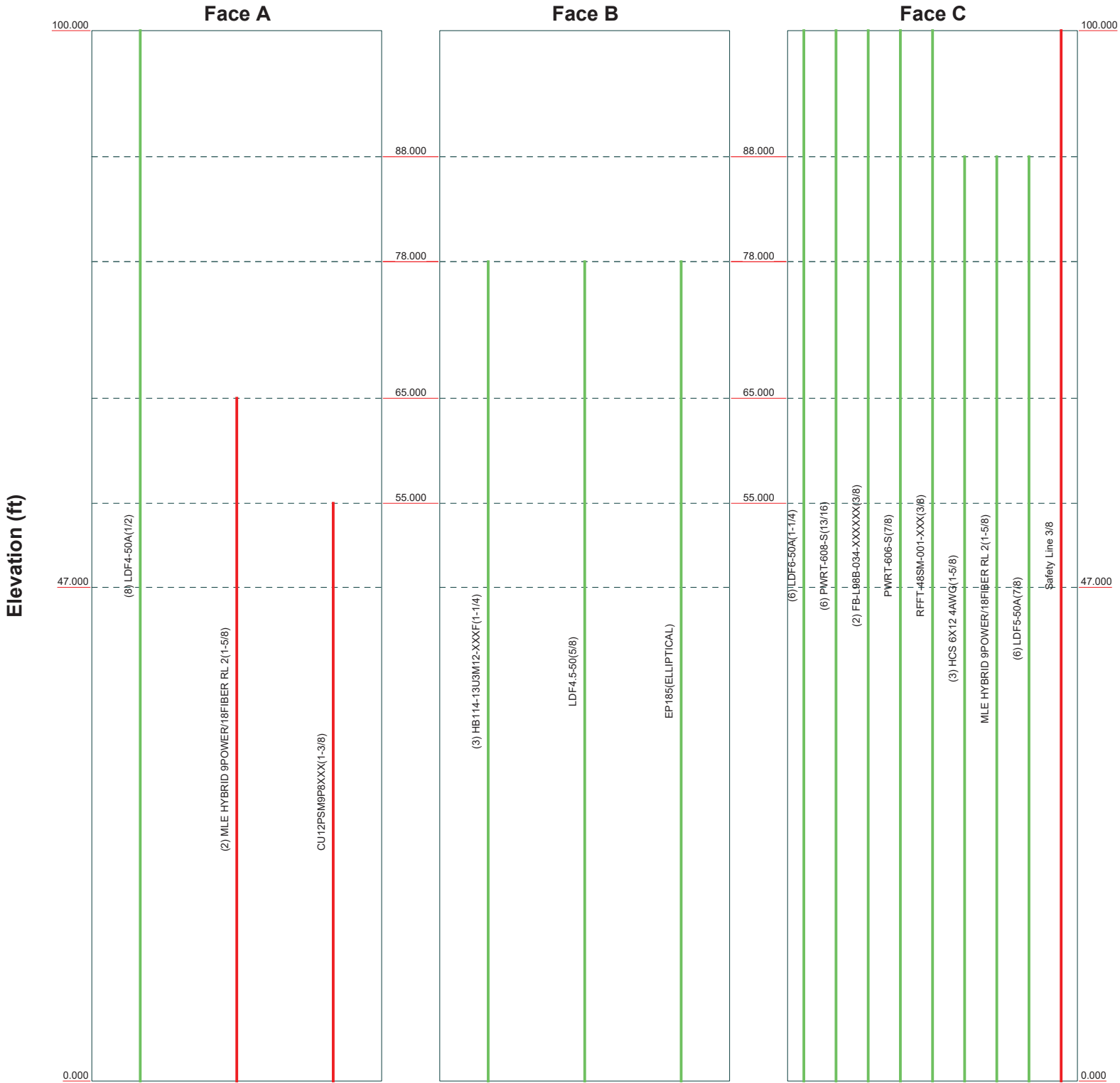
Job: 92699.012.01.0001 - MERIDEN WEST CENTRAL, CT (BU# 84286)		
Project:		
Client: Crown Castle	Drawn by: Rakshak	App'd:
Code: TIA-222-H	Date: 11/02/23	Scale: NTS
Path:	Dwg No. E-4	



Feed Line Distribution Chart

0' - 100'

— Round
 — Flat
 — App In Face
 — App Out Face
 — Truss Leg



<p>MTS Engineering, P.L.L.C. 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	Job: 92699.012.01.0001 - MERIDEN WEST CENTRAL, CT (BU# 84286)		
	Project:		
	Client: Crown Castle	Drawn by: Rakshak	App'd:
	Code: TIA-222-H	Date: 11/02/23	Scale: NTS
	Path:	Dwg No. E-7	

<p>tnxTower</p> <p>MTS Engineering, P.L.L.C. 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	Job 92699.012.01.0001 - MERIDEN WEST CENTRAL, CT (BU# 842869)	Page 1 of 19
	Project	Date 17:37:22 11/02/23
	Client Crown Castle	Designed by Rakshak

Tower Input Data

The tower is a monopole.

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

The following design criteria apply:

Tower is located in New Haven County, Connecticut.

Tower base elevation above sea level: 170.000 ft.

Basic wind speed of 119 mph.

Risk Category II.

Exposure Category B.

Simplified Topographic Factor Procedure for wind speed-up calculations is used.

Topographic Category: 1.

Crest Height: 0.000 ft.

Nominal ice thickness of 1.000 in.

Ice thickness is considered to increase with height.

Ice density of 56.000 pcf.

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

Temperature drop of 50.000 °F.

Deflections calculated using a wind speed of 60 mph.

TIA-222-H Annex S.

A non-linear (P-delta) analysis was used.

Pressures are calculated at each section.

Stress ratio used in pole design is 1.

Tower analysis based on target reliabilities in accordance with Annex S.

Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.

Maximum demand-capacity ratio is: 1.05.

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

Options

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

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	100.000-47.000	53.000	6.000	16	28.000	40.720	0.313	1.250	A572-65 (65 ksi)
L2	47.000-0.000	53.000		16	38.655	51.370	0.375	1.500	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	Iu/Q in ²	w in	w/t
L1	28.487	27.601	2673.045	9.857	14.280	187.188	5386.564	13.647	4.950	15.84
	41.457	40.281	8308.852	14.385	20.767	400.095	16743.510	19.917	7.481	23.94
L2	40.806	45.792	8477.194	13.628	19.714	430.008	17082.742	22.642	6.946	18.523
	52.303	61.003	20040.987	18.154	26.199	764.961	40385.419	30.163	9.476	25.27

Tower Elevation ft	Gusset Area (per face) ft ²	Gusset Thickness in	Gusset Grade	Adjust. Factor A _f	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L1 100.000-47.000 0				1	1	1			
L2 47.000-0.000				1	1	1			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight klf
* MLE HYBRID 9POWER/18FIBER RL 2(1-5/8)	A	No	Surface Ar (CaAa)	65.000 - 0.000	2	2	-0.450 -0.350	1.625		0.001
* CU12PSM9P8XXX(1-3/8)	A	No	Surface Ar (CaAa)	55.000 - 0.000	1	1	-0.350 -0.300	1.411		0.002
* Safety Line 3/8	C	No	Surface Ar (CaAa)	100.000 - 0.000	1	1	0.250 0.250	0.375		0.000
*										

Feed Line/Linear Appurtenances - Entered As Area

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Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C _{AA} ft ² /ft	Weight klf
LDF4-50A(1/2)	A	No	No	Inside Pole	100.000 - 0.000	8	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.000 0.000 0.000
*									
LDF6-50A(1-1/4)	C	No	No	Inside Pole	100.000 - 0.000	6	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.001 0.001 0.001
PWRT-608-S(13/16)	C	No	No	Inside Pole	100.000 - 0.000	6	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.001 0.001 0.001
FB-L98B-034-XXX XXX(3/8)	C	No	No	Inside Pole	100.000 - 0.000	2	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.000 0.000 0.000
PWRT-606-S(7/8)	C	No	No	Inside Pole	100.000 - 0.000	1	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.001 0.001 0.001
RFFT-48SM-001-X XX(3/8)	C	No	No	Inside Pole	100.000 - 0.000	1	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.000 0.000 0.000
*									
HCS 6X12 4AWG(1-5/8)	C	No	No	Inside Pole	88.000 - 0.000	3	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.002 0.002 0.002
MLE HYBRID 9POWER/18FIBER RL 2(1-5/8)	C	No	No	Inside Pole	88.000 - 0.000	1	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.001 0.001 0.001
LDF5-50A(7/8)	C	No	No	Inside Pole	88.000 - 0.000	6	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.000 0.000 0.000
*									
HB114-13U3M12-X XXF(1-1/4)	B	No	No	Inside Pole	78.000 - 0.000	3	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.001 0.001 0.001
LDF4.5-50(5/8)	B	No	No	Inside Pole	78.000 - 0.000	1	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.000 0.000 0.000
EP185(ELLIPTICA L)	B	No	No	Inside Pole	78.000 - 0.000	1	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.000 0.000 0.000
*									

Feed Line/Linear Appurtenances Section Areas

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
L1	100.000-47.000	A	0.000	0.000	6.979	0.000	0.115
		B	0.000	0.000	0.000	0.000	0.103
		C	0.000	0.000	1.987	0.000	0.876
L2	47.000-0.000	A	0.000	0.000	21.907	0.000	0.235
		B	0.000	0.000	0.000	0.000	0.156
		C	0.000	0.000	1.763	0.000	0.885

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	Client Crown Castle	Designed by Rakshak

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
L1	100.000-47.000	A	0.920	0.000	0.000	14.051	0.000	0.213
		B		0.000	0.000	0.000	0.000	0.103
		C		0.000	0.000	11.736	0.000	0.953
L2	47.000-0.000	A	0.819	0.000	0.000	45.176	0.000	0.557
		B		0.000	0.000	0.000	0.000	0.156
		C		0.000	0.000	10.407	0.000	0.954

Feed Line Center of Pressure

Section	Elevation ft	CP_x in	CP_z in	CP_x Ice in	CP_z Ice in
L1	100.000-47.000	-1.218	0.560	-1.634	1.119
L2	47.000-0.000	-3.233	1.068	-3.799	1.597

Note: For pole sections, center of pressure calculations do not consider feed line shielding.

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L1	18	MLE HYBRID 9POWER/18FIBER RL 2(1-5/8)	47.00 - 65.00	1.0000	1.0000
L1	20	CU12PSM9P8XXX(1-3/8)	47.00 - 55.00	1.0000	1.0000
L1	22	Safety Line 3/8	47.00 - 100.00	1.0000	1.0000
L2	18	MLE HYBRID 9POWER/18FIBER RL 2(1-5/8)	0.00 - 47.00	1.0000	1.0000
L2	20	CU12PSM9P8XXX(1-3/8)	0.00 - 47.00	1.0000	1.0000
L2	22	Safety Line 3/8	0.00 - 47.00	1.0000	1.0000

Discrete Tower Loads

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Lateral					
Lightning Rod 1/2" x 8'	C	From Leg	4.000	0.000	100.000	No Ice	0.400	0.400	0.030
			0.000			1/2" Ice	1.212	1.212	0.035
			4.000			1" Ice	2.042	2.042	0.045
*									
1150-1	A	From Leg	4.000	0.000	100.000	No Ice	2.144	2.144	0.008
			0.000			1/2" Ice	3.074	3.074	0.024
			11.000			1" Ice	4.019	4.019	0.046
DB201-A	B	From Leg	4.000	0.000	100.000	No Ice	1.100	1.100	0.025
			0.000			1/2" Ice	1.980	1.980	0.033
			6.000			1" Ice	2.860	2.860	0.040
DB201-A	B	From Leg	4.000	0.000	100.000	No Ice	1.100	1.100	0.025
			0.000			1/2" Ice	1.980	1.980	0.033
			9.000			1" Ice	2.860	2.860	0.040
(2) DB432-A	B	From Leg	4.000	0.000	100.000	No Ice	0.300	0.300	0.005
			0.000			1/2" Ice	0.540	0.540	0.006
			-4.000			1" Ice	0.780	0.780	0.008
DB201-A	C	From Leg	4.000	0.000	100.000	No Ice	1.100	1.100	0.025
			0.000			1/2" Ice	1.980	1.980	0.033
			8.000			1" Ice	2.860	2.860	0.040
(2) DB432-A	C	From Leg	4.000	0.000	100.000	No Ice	0.300	0.300	0.005
			0.000			1/2" Ice	0.540	0.540	0.006
			-4.000			1" Ice	0.780	0.780	0.008
MFB-8137	C	From Leg	4.000	0.000	100.000	No Ice	1.200	1.200	0.004
			0.000			1/2" Ice	2.021	2.021	0.014
			10.000			1" Ice	2.858	2.858	0.029
*									
RRUS 32 B30	A	From Leg	4.000	0.000	100.000	No Ice	2.731	1.668	0.053
			0.000			1/2" Ice	2.953	1.855	0.074
			-1.000			1" Ice	3.182	2.049	0.098
RRUS 32 B30	B	From Leg	4.000	0.000	100.000	No Ice	2.731	1.668	0.053
			0.000			1/2" Ice	2.953	1.855	0.074
			-1.000			1" Ice	3.182	2.049	0.098
RRUS 32 B30	C	From Leg	4.000	0.000	100.000	No Ice	2.731	1.668	0.053
			0.000			1/2" Ice	2.953	1.855	0.074
			-1.000			1" Ice	3.182	2.049	0.098
RRUS 4478 B14	A	From Leg	4.000	0.000	100.000	No Ice	1.843	1.059	0.060
			0.000			1/2" Ice	2.012	1.197	0.076
			-1.000			1" Ice	2.190	1.342	0.094
RRUS 4478 B14	B	From Leg	4.000	0.000	100.000	No Ice	1.843	1.059	0.060
			0.000			1/2" Ice	2.012	1.197	0.076
			-1.000			1" Ice	2.190	1.342	0.094
RRUS 4478 B14	C	From Leg	4.000	0.000	100.000	No Ice	1.843	1.059	0.060
			0.000			1/2" Ice	2.012	1.197	0.076
			-1.000			1" Ice	2.190	1.342	0.094
RRUS 32 B66	A	From Leg	4.000	0.000	100.000	No Ice	2.743	1.668	0.053
			0.000			1/2" Ice	2.965	1.855	0.074
			-1.000			1" Ice	3.194	2.049	0.098
RRUS 32 B66	B	From Leg	4.000	0.000	100.000	No Ice	2.743	1.668	0.053
			0.000			1/2" Ice	2.965	1.855	0.074
			-1.000			1" Ice	3.194	2.049	0.098
RRUS 32 B66	C	From Leg	4.000	0.000	100.000	No Ice	2.743	1.668	0.053
			0.000			1/2" Ice	2.965	1.855	0.074
			-1.000			1" Ice	3.194	2.049	0.098
RRUS 32 B2	A	From Leg	4.000	0.000	100.000	No Ice	2.731	1.668	0.053
			0.000			1/2" Ice	2.953	1.855	0.074
			-1.000			1" Ice	3.182	2.049	0.098
RRUS 32 B2	B	From Leg	4.000	0.000	100.000	No Ice	2.731	1.668	0.053

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	Project				Date		17:37:22 11/02/23	
	Client		Crown Castle		Designed by		Rakshak	

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Vert					
			ft	ft	°	ft	ft ²	ft ²	K
			0.000			1/2" Ice	2.953	1.855	0.074
			-1.000			1" Ice	3.182	2.049	0.098
RRUS 32 B2	C	From Leg	4.000	0.000	100.000	No Ice	2.731	1.668	0.053
			0.000			1/2" Ice	2.953	1.855	0.074
			-1.000			1" Ice	3.182	2.049	0.098
DC6-48-60-18-8F	A	From Leg	1.000	0.000	100.000	No Ice	0.791	0.791	0.020
			0.000			1/2" Ice	1.274	1.274	0.035
			-1.000			1" Ice	1.450	1.450	0.053
DC6-48-60-18-8F	B	From Leg	1.000	0.000	100.000	No Ice	0.791	0.791	0.020
			0.000			1/2" Ice	1.274	1.274	0.035
			-1.000			1" Ice	1.450	1.450	0.053
AIR 6419 B77G_CCIV3 w/ Mount Pipe	A	From Leg	4.000	0.000	100.000	No Ice	3.791	2.147	0.069
			0.000			1/2" Ice	4.143	2.446	0.104
			1.000			1" Ice	4.509	2.759	0.146
AIR 6419 B77G_CCIV3 w/ Mount Pipe	B	From Leg	4.000	0.000	100.000	No Ice	3.791	2.147	0.069
			0.000			1/2" Ice	4.143	2.446	0.104
			1.000			1" Ice	4.509	2.759	0.146
AIR 6419 B77G_CCIV3 w/ Mount Pipe	C	From Leg	4.000	0.000	100.000	No Ice	3.791	2.147	0.069
			0.000			1/2" Ice	4.143	2.446	0.104
			1.000			1" Ice	4.509	2.759	0.146
AIR 6449 B77D_CCIV2 w/ Mount Pipe	A	From Leg	4.000	0.000	100.000	No Ice	3.583	2.307	0.095
			0.000			1/2" Ice	3.920	2.602	0.130
			-3.000			1" Ice	4.272	2.912	0.173
AIR 6449 B77D_CCIV2 w/ Mount Pipe	B	From Leg	4.000	0.000	100.000	No Ice	3.583	2.307	0.095
			0.000			1/2" Ice	3.920	2.602	0.130
			-3.000			1" Ice	4.272	2.912	0.173
AIR 6449 B77D_CCIV2 w/ Mount Pipe	C	From Leg	4.000	0.000	100.000	No Ice	3.583	2.307	0.095
			0.000			1/2" Ice	3.920	2.602	0.130
			-3.000			1" Ice	4.272	2.912	0.173
OPA65R-BU6D w/ Mount Pipe	A	From Leg	4.000	0.000	100.000	No Ice	12.248	6.047	0.089
			0.000			1/2" Ice	12.998	6.710	0.176
			-1.000			1" Ice	13.764	7.388	0.275
OPA65R-BU6D w/ Mount Pipe	B	From Leg	4.000	0.000	100.000	No Ice	12.248	6.047	0.089
			0.000			1/2" Ice	12.998	6.710	0.176
			-1.000			1" Ice	13.764	7.388	0.275
OPA65R-BU6D w/ Mount Pipe	C	From Leg	4.000	0.000	100.000	No Ice	12.248	6.047	0.089
			0.000			1/2" Ice	12.998	6.710	0.176
			-1.000			1" Ice	13.764	7.388	0.275
QD6616-7 w/ Mount Pipe	A	From Leg	4.000	0.000	100.000	No Ice	12.562	6.931	0.156
			0.000			1/2" Ice	13.305	7.596	0.252
			-1.000			1" Ice	14.063	8.276	0.360
QD6616-7 w/ Mount Pipe	B	From Leg	4.000	0.000	100.000	No Ice	12.562	6.931	0.156
			0.000			1/2" Ice	13.305	7.596	0.252
			-1.000			1" Ice	14.063	8.276	0.360
QD6616-7 w/ Mount Pipe	C	From Leg	4.000	0.000	100.000	No Ice	12.562	6.931	0.156
			0.000			1/2" Ice	13.305	7.596	0.252
			-1.000			1" Ice	14.063	8.276	0.360
2012 B29	A	From Leg	4.000	0.000	100.000	No Ice	1.856	0.695	0.043
			0.000			1/2" Ice	2.027	0.814	0.056
			-1.000			1" Ice	2.204	0.939	0.072
2012 B29	B	From Leg	4.000	0.000	100.000	No Ice	1.856	0.695	0.043
			0.000			1/2" Ice	2.027	0.814	0.056
			-1.000			1" Ice	2.204	0.939	0.072
2012 B29	C	From Leg	4.000	0.000	100.000	No Ice	1.856	0.695	0.043
			0.000			1/2" Ice	2.027	0.814	0.056
			-1.000			1" Ice	2.204	0.939	0.072
RRUS 4449 B5/B12	A	From Leg	4.000	0.000	100.000	No Ice	1.968	1.408	0.071

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	Client		Crown Castle		Designed by		Rakshak	

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Lateral					
			0.000						
			-1.000						
RRUS 4449 B5/B12	B	From Leg	4.000	0.000	100.000	1/2" Ice	2.144	1.564	0.090
			0.000			1" Ice	2.328	1.727	0.111
			0.000			No Ice	1.968	1.408	0.071
			-1.000			1/2" Ice	2.144	1.564	0.090
RRUS 4449 B5/B12	C	From Leg	4.000	0.000	100.000	1" Ice	2.328	1.727	0.111
			0.000			No Ice	1.968	1.408	0.071
			0.000			1/2" Ice	2.144	1.564	0.090
			-1.000			1" Ice	2.328	1.727	0.111
DC9-48-60-24-8C-EV_CCIV 2	C	From Leg	4.000	0.000	100.000	No Ice	2.736	2.736	0.016
			0.000			1/2" Ice	2.962	2.962	0.042
			-1.000			1" Ice	3.195	3.195	0.071
10' x 2.875" Mount Pipe	A	From Leg	4.000	0.000	100.000	No Ice	2.875	2.875	0.058
			0.000			1/2" Ice	3.907	3.907	0.079
			0.000			1" Ice	4.956	4.956	0.107
10' x 2.875" Mount Pipe	B	From Leg	4.000	0.000	100.000	No Ice	2.875	2.875	0.058
			0.000			1/2" Ice	3.907	3.907	0.079
			0.000			1" Ice	4.956	4.956	0.107
10' x 2.875" Mount Pipe	C	From Leg	4.000	0.000	100.000	No Ice	2.875	2.875	0.058
			0.000			1/2" Ice	3.907	3.907	0.079
			0.000			1" Ice	4.956	4.956	0.107
Platform Mount [LP 304-1_HR-1]	C	None		0.000	100.000	No Ice	21.410	21.410	1.605
						1/2" Ice	26.620	26.620	2.056
						1" Ice	31.660	31.660	2.598
Side Arm Mount [SO 102-3]	C	None		0.000	100.000	No Ice	3.600	3.600	0.075
						1/2" Ice	4.180	4.180	0.105
						1" Ice	4.750	4.750	0.135
*									
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	A	From Leg	4.000	0.000	88.000	No Ice	3.145	2.585	0.112
			0.000			1/2" Ice	3.454	2.884	0.164
			1.000			1" Ice	3.772	3.192	0.225
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	B	From Leg	4.000	0.000	88.000	No Ice	3.145	2.585	0.112
			0.000			1/2" Ice	3.454	2.884	0.164
			1.000			1" Ice	3.772	3.192	0.225
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	C	From Leg	4.000	0.000	88.000	No Ice	3.145	2.585	0.112
			0.000			1/2" Ice	3.454	2.884	0.164
			1.000			1" Ice	3.772	3.192	0.225
AIR -32 B2A/B66AA w/ Mount Pipe	A	From Leg	4.000	0.000	88.000	No Ice	3.763	3.146	0.194
			0.000			1/2" Ice	4.117	3.489	0.252
			1.000			1" Ice	4.480	3.842	0.320
AIR -32 B2A/B66AA w/ Mount Pipe	B	From Leg	4.000	0.000	88.000	No Ice	3.763	3.146	0.194
			0.000			1/2" Ice	4.117	3.489	0.252
			1.000			1" Ice	4.480	3.842	0.320
AIR -32 B2A/B66AA w/ Mount Pipe	C	From Leg	4.000	0.000	88.000	No Ice	3.763	3.146	0.194
			0.000			1/2" Ice	4.117	3.489	0.252
			1.000			1" Ice	4.480	3.842	0.320
AIR6449 B41 w/ Mount Pipe	A	From Leg	4.000	0.000	88.000	No Ice	5.185	2.715	0.118
			0.000			1/2" Ice	5.591	3.046	0.164
			1.000			1" Ice	6.011	3.392	0.216
AIR6449 B41 w/ Mount Pipe	B	From Leg	4.000	0.000	88.000	No Ice	5.185	2.715	0.118
			0.000			1/2" Ice	5.591	3.046	0.164
			1.000			1" Ice	6.011	3.392	0.216
AIR6449 B41 w/ Mount Pipe	C	From Leg	4.000	0.000	88.000	No Ice	5.185	2.715	0.118
			0.000			1/2" Ice	5.591	3.046	0.164
			1.000			1" Ice	6.011	3.392	0.216
APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Leg	4.000	0.000	88.000	No Ice	14.694	6.873	0.186
			0.000			1/2" Ice	15.455	7.554	0.315
			-1.000			1" Ice	16.230	8.247	0.458

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	Client Crown Castle	Designed by Rakshak

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _A A _{Front}	C _A A _{Side}	Weight
			Horz	Vert					
			ft	ft	°	ft	ft ²	ft ²	K
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Leg	4.000	0.000	88.000	No Ice	14.694	6.873	0.186
			0.000			1/2" Ice	15.455	7.554	0.315
			-1.000			1" Ice	16.230	8.247	0.458
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Leg	4.000	0.000	88.000	No Ice	14.694	6.873	0.186
			0.000			1/2" Ice	15.455	7.554	0.315
			-1.000			1" Ice	16.230	8.247	0.458
KRY 112 144/1	A	From Leg	4.000	0.000	88.000	No Ice	0.350	0.175	0.011
			0.000			1/2" Ice	0.426	0.234	0.014
			1.000			1" Ice	0.509	0.301	0.019
KRY 112 144/1	B	From Leg	4.000	0.000	88.000	No Ice	0.350	0.175	0.011
			0.000			1/2" Ice	0.426	0.234	0.014
			1.000			1" Ice	0.509	0.301	0.019
KRY 112 144/1	C	From Leg	4.000	0.000	88.000	No Ice	0.350	0.175	0.011
			0.000			1/2" Ice	0.426	0.234	0.014
			1.000			1" Ice	0.509	0.301	0.019
RADIO 4449 B71 B85A_T-MOBILE	A	From Leg	4.000	0.000	88.000	No Ice	1.970	1.587	0.073
			0.000			1/2" Ice	2.147	1.749	0.093
			-1.000			1" Ice	2.331	1.918	0.116
RADIO 4449 B71 B85A_T-MOBILE	B	From Leg	4.000	0.000	88.000	No Ice	1.970	1.587	0.073
			0.000			1/2" Ice	2.147	1.749	0.093
			-1.000			1" Ice	2.331	1.918	0.116
RADIO 4449 B71 B85A_T-MOBILE	C	From Leg	4.000	0.000	88.000	No Ice	1.970	1.587	0.073
			0.000			1/2" Ice	2.147	1.749	0.093
			-1.000			1" Ice	2.331	1.918	0.116
RRUS 4415 B25	A	From Leg	4.000	0.000	88.000	No Ice	1.644	0.679	0.044
			0.000			1/2" Ice	1.804	0.791	0.056
			-1.000			1" Ice	1.972	0.913	0.071
RRUS 4415 B25	B	From Leg	4.000	0.000	88.000	No Ice	1.644	0.679	0.044
			0.000			1/2" Ice	1.804	0.791	0.056
			-1.000			1" Ice	1.972	0.913	0.071
RRUS 4415 B25	C	From Leg	4.000	0.000	88.000	No Ice	1.644	0.679	0.044
			0.000			1/2" Ice	1.804	0.791	0.056
			-1.000			1" Ice	1.972	0.913	0.071
4' x 2" Pipe Mount	A	From Leg	4.000	0.000	88.000	No Ice	0.785	0.785	0.029
			0.000			1/2" Ice	1.028	1.028	0.035
			0.000			1" Ice	1.281	1.281	0.044
4' x 2" Pipe Mount	B	From Leg	4.000	0.000	88.000	No Ice	0.785	0.785	0.029
			0.000			1/2" Ice	1.028	1.028	0.035
			0.000			1" Ice	1.281	1.281	0.044
4' x 2" Pipe Mount	C	From Leg	4.000	0.000	88.000	No Ice	0.785	0.785	0.029
			0.000			1/2" Ice	1.028	1.028	0.035
			0.000			1" Ice	1.281	1.281	0.044
Platform Mount [LP 305-1_HR-1]	C	None		0.000	88.000	No Ice	19.590	19.590	1.366
						1/2" Ice	24.480	24.480	1.782
						1" Ice	29.240	29.240	2.286
*									
800 EXTERNAL NOTCH FILTER	A	From Leg	2.000	0.000	80.000	No Ice	0.660	0.321	0.011
			0.000			1/2" Ice	0.763	0.398	0.017
			0.000			1" Ice	0.873	0.483	0.024
800 EXTERNAL NOTCH FILTER	B	From Leg	2.000	0.000	80.000	No Ice	0.660	0.321	0.011
			0.000			1/2" Ice	0.763	0.398	0.017
			0.000			1" Ice	0.873	0.483	0.024
800 EXTERNAL NOTCH FILTER	C	From Leg	2.000	0.000	80.000	No Ice	0.660	0.321	0.011
			0.000			1/2" Ice	0.763	0.398	0.017
			0.000			1" Ice	0.873	0.483	0.024
1900MHz RRH	A	From Leg	2.000	0.000	80.000	No Ice	2.492	3.258	0.044
			0.000			1/2" Ice	2.695	3.484	0.075

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	Client		Crown Castle		Designed by		Rakshak	

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight	
			Horz Lateral	Vert						°
1900MHz RRH	B	From Leg	0.000		0.000	80.000	1" Ice	2.906	3.718	0.110
			2.000				No Ice	2.492	3.258	0.044
			0.000				1/2" Ice	2.695	3.484	0.075
1900MHz RRH	C	From Leg	0.000		0.000	80.000	1" Ice	2.906	3.718	0.110
			2.000				No Ice	2.492	3.258	0.044
			0.000				1/2" Ice	2.695	3.484	0.075
TME-800MHZ RRH	A	From Leg	0.000		0.000	80.000	1" Ice	2.906	3.718	0.110
			2.000				No Ice	2.134	1.773	0.053
			0.000				1/2" Ice	2.320	1.946	0.074
TME-800MHZ RRH	B	From Leg	0.000		0.000	80.000	1" Ice	2.512	2.127	0.098
			2.000				No Ice	2.134	1.773	0.053
			0.000				1/2" Ice	2.320	1.946	0.074
TME-800MHZ RRH	C	From Leg	0.000		0.000	80.000	1" Ice	2.512	2.127	0.098
			2.000				No Ice	2.134	1.773	0.053
			0.000				1/2" Ice	2.320	1.946	0.074
5' x 4" Std. Pipe	A	From Leg	0.000		0.000	80.000	1" Ice	2.512	2.127	0.098
			2.000				No Ice	1.656	1.656	0.054
			0.000				1/2" Ice	2.076	2.076	0.070
5' x 4" Std. Pipe	B	From Leg	0.000		0.000	80.000	1" Ice	2.397	2.397	0.090
			2.000				No Ice	1.656	1.656	0.054
			0.000				1/2" Ice	2.076	2.076	0.070
5' x 4" Std. Pipe	C	From Leg	0.000		0.000	80.000	1" Ice	2.397	2.397	0.090
			2.000				No Ice	1.656	1.656	0.054
			0.000				1/2" Ice	2.076	2.076	0.070
Side Arm Mount [SO 104-3]	C	None	0.000		0.000	80.000	1" Ice	2.397	2.397	0.090
							No Ice	2.620	2.620	0.288
							1/2" Ice	3.300	3.300	0.408
* APXVSP18-C-A20 w/ Mount Pipe	A	From Leg	4.000		0.000	78.000	1" Ice	3.980	3.980	0.528
			0.000				No Ice	4.601	4.011	0.095
			1.000				1/2" Ice	5.045	4.448	0.160
(2) APXVSP18-C-A20 w/ Mount Pipe	C	From Leg	4.000		0.000	78.000	1" Ice	5.500	4.894	0.235
			0.000				No Ice	4.601	4.011	0.095
			1.000				1/2" Ice	5.045	4.448	0.160
APXVTM14-C-120 w/ Mount Pipe	A	From Leg	4.000		0.000	78.000	1" Ice	5.500	4.894	0.235
			0.000				No Ice	4.091	2.862	0.077
			2.000				1/2" Ice	4.480	3.229	0.127
(2) APXVTM14-C-120 w/ Mount Pipe	C	From Leg	4.000		0.000	78.000	1" Ice	4.880	3.607	0.185
			0.000				No Ice	4.091	2.862	0.077
			2.000				1/2" Ice	4.480	3.229	0.127
TD-RRH8x20-25	A	From Leg	4.000		0.000	78.000	1" Ice	4.880	3.607	0.185
			0.000				No Ice	3.704	1.294	0.066
			2.000				1/2" Ice	3.946	1.465	0.090
(2) TD-RRH8x20-25	C	From Leg	4.000		0.000	78.000	1" Ice	4.196	1.642	0.117
			0.000				No Ice	3.704	1.294	0.066
			2.000				1/2" Ice	3.946	1.465	0.090
(2) 6' x 2" Mount Pipe	A	From Leg	4.000		0.000	78.000	1" Ice	4.196	1.642	0.117
			0.000				No Ice	1.425	1.425	0.022
			2.000				1/2" Ice	1.925	1.925	0.033
(4) 6' x 2" Mount Pipe	B	From Leg	4.000		0.000	78.000	1" Ice	2.294	2.294	0.048
			0.000				No Ice	1.425	1.425	0.022
			2.000				1/2" Ice	1.925	1.925	0.033
Platform Mount [LP 303-1]	C	None	0.000		0.000	78.000	1" Ice	2.294	2.294	0.048
							No Ice	14.690	14.690	1.250
							1/2" Ice	18.010	18.010	1.569
						1" Ice	21.340	21.340	1.942	

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	Client Crown Castle	Designed by Rakshak

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
BXA-70063/6CF w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	65.000	No Ice 1/2" Ice 1" Ice	7.344 8.076 8.826	5.513 6.219 6.943	0.058 0.115 0.183
BXA-70063/6CF w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	65.000	No Ice 1/2" Ice 1" Ice	7.344 8.076 8.826	5.513 6.219 6.943	0.058 0.115 0.183
BXA-70063/6CF w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	65.000	No Ice 1/2" Ice 1" Ice	7.344 8.076 8.826	5.513 6.219 6.943	0.058 0.115 0.183
(2) DB-T1-6Z-8AB-0Z	C	From Leg	2.000 0.000 0.000	0.000	65.000	No Ice 1/2" Ice 1" Ice	4.800 5.070 5.348	2.000 2.193 2.393	0.044 0.080 0.120
(2) MX06FRO660-03 w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	65.000	No Ice 1/2" Ice 1" Ice	6.541 7.063 7.597	5.546 6.054 6.574	0.103 0.185 0.277
(2) MX06FRO660-03 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	65.000	No Ice 1/2" Ice 1" Ice	6.541 7.063 7.597	5.546 6.054 6.574	0.103 0.185 0.277
(2) MX06FRO660-03 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	65.000	No Ice 1/2" Ice 1" Ice	6.541 7.063 7.597	5.546 6.054 6.574	0.103 0.185 0.277
MT6407-77A w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	65.000	No Ice 1/2" Ice 1" Ice	5.940 6.470 7.020	3.100 3.550 4.020	0.096 0.132 0.175
MT6407-77A w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	65.000	No Ice 1/2" Ice 1" Ice	5.940 6.470 7.020	3.100 3.550 4.020	0.096 0.132 0.175
MT6407-77A w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	65.000	No Ice 1/2" Ice 1" Ice	5.940 6.470 7.020	3.100 3.550 4.020	0.096 0.132 0.175
RF4439D-25A	A	From Leg	4.000 0.000 0.000	0.000	65.000	No Ice 1/2" Ice 1" Ice	1.865 2.035 2.212	1.252 1.394 1.544	0.075 0.093 0.114
RF4439D-25A	B	From Leg	4.000 0.000 0.000	0.000	65.000	No Ice 1/2" Ice 1" Ice	1.865 2.035 2.212	1.252 1.394 1.544	0.075 0.093 0.114
RF4439D-25A	C	From Leg	4.000 0.000 0.000	0.000	65.000	No Ice 1/2" Ice 1" Ice	1.865 2.035 2.212	1.252 1.394 1.544	0.075 0.093 0.114
RF4440D-13A	A	From Leg	4.000 0.000 0.000	0.000	65.000	No Ice 1/2" Ice 1" Ice	1.865 2.035 2.212	1.129 1.267 1.411	0.073 0.090 0.110
(2) RF4440D-13A	B	From Leg	4.000 0.000 0.000	0.000	65.000	No Ice 1/2" Ice 1" Ice	1.865 2.035 2.212	1.129 1.267 1.411	0.073 0.090 0.110
RVZDC-3315-PF-48	A	From Leg	4.000 0.000 0.000	0.000	65.000	No Ice 1/2" Ice 1" Ice	4.063 4.321 4.587	2.989 3.223 3.465	0.027 0.063 0.103
RVZDC-3315-PF-48	C	From Leg	4.000 0.000 0.000	0.000	65.000	No Ice 1/2" Ice 1" Ice	4.063 4.321 4.587	2.989 3.223 3.465	0.027 0.063 0.103
4' x 2" Pipe Mount	C	From Leg	2.000 0.000 1.000	0.000	65.000	No Ice 1/2" Ice 1" Ice	0.785 1.028 1.281	0.785 1.028 1.281	0.029 0.035 0.044
4' x 2" Pipe Mount	A	From Leg	4.000 0.000 0.000	0.000	65.000	No Ice 1/2" Ice 1" Ice	0.785 1.028 1.281	0.785 1.028 1.281	0.029 0.035 0.044

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Description	Face or Leg	Offset Type	Offsets:			Placement	C _{AA} Front	C _{AA} Side	Weight			
			Horz	Lateral	Vert					Azimuth Adjustment	ft	ft ²
			ft	ft	ft	°	ft	ft ²	ft ²	K		
4' x 2" Pipe Mount	B	From Leg	4.000	0.000	0.000	0.000	65.000	No Ice	0.785	0.785	0.029	
			0.000						1/2" Ice	1.028	1.028	0.035
			0.000						1" Ice	1.281	1.281	0.044
4' x 2" Pipe Mount	C	From Leg	4.000	0.000	0.000	0.000	65.000	No Ice	0.785	0.785	0.029	
			0.000						1/2" Ice	1.028	1.028	0.035
			0.000						1" Ice	1.281	1.281	0.044
Platform Mount [LP 303-1_HR-1]	C	None		0.000		0.000	65.000	No Ice	17.090	17.090	1.495	
								1/2" Ice	21.470	21.470	1.881	
								1" Ice	25.720	25.720	2.346	
*												
MX08FRO665-21 w/ Mount Pipe	A	From Leg	4.000	0.000	0.000	0.000	55.000	No Ice	8.009	4.233	0.108	
			0.000						1/2" Ice	8.518	4.689	0.194
			0.000						1" Ice	9.038	5.156	0.292
MX08FRO665-21 w/ Mount Pipe	B	From Leg	4.000	0.000	0.000	0.000	55.000	No Ice	8.009	4.233	0.108	
			0.000						1/2" Ice	8.518	4.689	0.194
			0.000						1" Ice	9.038	5.156	0.292
MX08FRO665-21 w/ Mount Pipe	C	From Leg	4.000	0.000	0.000	0.000	55.000	No Ice	8.009	4.233	0.108	
			0.000						1/2" Ice	8.518	4.689	0.194
			0.000						1" Ice	9.038	5.156	0.292
TA08025-B604	A	From Leg	4.000	0.000	0.000	0.000	55.000	No Ice	1.964	0.981	0.064	
			0.000						1/2" Ice	2.138	1.112	0.081
			0.000						1" Ice	2.320	1.250	0.100
TA08025-B604	B	From Leg	4.000	0.000	0.000	0.000	55.000	No Ice	1.964	0.981	0.064	
			0.000						1/2" Ice	2.138	1.112	0.081
			0.000						1" Ice	2.320	1.250	0.100
TA08025-B604	C	From Leg	4.000	0.000	0.000	0.000	55.000	No Ice	1.964	0.981	0.064	
			0.000						1/2" Ice	2.138	1.112	0.081
			0.000						1" Ice	2.320	1.250	0.100
TA08025-B605	A	From Leg	4.000	0.000	0.000	0.000	55.000	No Ice	1.964	1.129	0.075	
			0.000						1/2" Ice	2.138	1.267	0.093
			0.000						1" Ice	2.320	1.411	0.114
TA08025-B605	B	From Leg	4.000	0.000	0.000	0.000	55.000	No Ice	1.964	1.129	0.075	
			0.000						1/2" Ice	2.138	1.267	0.093
			0.000						1" Ice	2.320	1.411	0.114
TA08025-B605	C	From Leg	4.000	0.000	0.000	0.000	55.000	No Ice	1.964	1.129	0.075	
			0.000						1/2" Ice	2.138	1.267	0.093
			0.000						1" Ice	2.320	1.411	0.114
RDIDC-9181-PF-48	A	From Leg	4.000	0.000	0.000	0.000	55.000	No Ice	2.012	1.168	0.022	
			0.000						1/2" Ice	2.189	1.311	0.040
			0.000						1" Ice	2.373	1.461	0.060
(2) 8' x 2" Mount Pipe	A	From Leg	4.000	0.000	0.000	0.000	55.000	No Ice	1.900	1.900	0.029	
			0.000						1/2" Ice	2.728	2.728	0.044
			0.000						1" Ice	3.401	3.401	0.063
(2) 8' x 2" Mount Pipe	B	From Leg	4.000	0.000	0.000	0.000	55.000	No Ice	1.900	1.900	0.029	
			0.000						1/2" Ice	2.728	2.728	0.044
			0.000						1" Ice	3.401	3.401	0.063
(2) 8' x 2" Mount Pipe	C	From Leg	4.000	0.000	0.000	0.000	55.000	No Ice	1.900	1.900	0.029	
			0.000						1/2" Ice	2.728	2.728	0.044
			0.000						1" Ice	3.401	3.401	0.063
Commscope MC-PK8-DSH	C	None		0.000		0.000	55.000	No Ice	34.240	34.240	1.749	
								1/2" Ice	62.950	62.950	2.099	
								1" Ice	91.660	91.660	2.450	
*												

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Load Combinations

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

Maximum Member Forces

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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	100 - 47	Pole	Max Tension	26	0.000	-0.000	0.000
			Max. Compression	26	-42.733	5.296	-0.439
			Max. Mx	20	-27.313	515.064	-3.757
			Max. My	14	-27.315	5.518	-512.628
			Max. Vy	20	-18.532	515.064	-3.757
			Max. Vx	14	18.493	5.518	-512.628
			Max. Torque	14			-2.218
L2	47 - 0	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-60.098	6.265	-0.066
			Max. Mx	20	-41.858	1589.980	-11.832
			Max. My	14	-41.858	14.203	-1584.985
			Max. Vy	20	-21.984	1589.980	-11.832
			Max. Vx	14	21.948	14.203	-1584.985
			Max. Torque	14			-2.218

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	35	60.098	4.947	-2.869
	Max. H _x	20	41.869	21.964	-0.153
	Max. H _z	2	41.869	-0.153	21.927
	Max. M _x	2	1584.633	-0.153	21.927
	Max. M _z	8	1584.883	-21.964	0.153
	Max. Torsion	2	2.213	-0.153	21.927
	Min. Vert	13	31.402	-10.849	-18.913
	Min. H _x	8	41.869	-21.964	0.153
	Min. H _z	14	41.869	0.153	-21.927
	Min. M _x	14	-1584.985	0.153	-21.927
	Min. M _z	20	-1589.980	21.964	-0.153
	Min. Torsion	14	-2.217	0.153	-21.927

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	34.891	0.000	0.000	0.137	2.054	0.000
1.2 Dead+1.0 Wind 0 deg - No Ice	41.869	0.153	-21.927	-1584.633	-9.109	-2.213
0.9 Dead+1.0 Wind 0 deg - No Ice	31.402	0.153	-21.927	-1576.053	-9.701	-2.207
1.2 Dead+1.0 Wind 30 deg - No Ice	41.869	11.115	-19.066	-1378.134	-801.262	-1.807
0.9 Dead+1.0 Wind 30 deg - No Ice	31.402	11.115	-19.066	-1370.680	-797.543	-1.803
1.2 Dead+1.0 Wind 60 deg - No Ice	41.869	19.098	-11.097	-802.321	-1378.034	-0.918
0.9 Dead+1.0 Wind 60 deg - No Ice	31.402	19.098	-11.097	-798.002	-1371.175	-0.917
1.2 Dead+1.0 Wind 90 deg - No Ice	41.869	21.964	-0.153	-11.481	-1584.883	0.218

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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
0.9 Dead+1.0 Wind 90 deg - No Ice	31.402	21.964	-0.153	-11.466	-1576.898	0.216
1.2 Dead+1.0 Wind 120 deg - No Ice	41.869	18.944	10.831	782.486	-1366.382	1.297
0.9 Dead+1.0 Wind 120 deg - No Ice	31.402	18.944	10.831	778.180	-1359.585	1.292
1.2 Dead+1.0 Wind 150 deg - No Ice	41.869	10.849	18.913	1366.834	-781.076	2.030
0.9 Dead+1.0 Wind 150 deg - No Ice	31.402	10.849	18.913	1359.348	-777.462	2.023
1.2 Dead+1.0 Wind 180 deg - No Ice	41.869	-0.153	21.927	1584.985	14.203	2.217
0.9 Dead+1.0 Wind 180 deg - No Ice	31.402	-0.153	21.927	1576.312	13.489	2.211
1.2 Dead+1.0 Wind 210 deg - No Ice	41.869	-11.115	19.066	1378.487	806.356	1.809
0.9 Dead+1.0 Wind 210 deg - No Ice	31.402	-11.115	19.066	1370.940	801.331	1.805
1.2 Dead+1.0 Wind 240 deg - No Ice	41.869	-19.098	11.097	802.674	1383.130	0.915
0.9 Dead+1.0 Wind 240 deg - No Ice	31.402	-19.098	11.097	798.261	1374.964	0.915
1.2 Dead+1.0 Wind 270 deg - No Ice	41.869	-21.964	0.153	11.832	1589.980	-0.223
0.9 Dead+1.0 Wind 270 deg - No Ice	31.402	-21.964	0.153	11.724	1580.687	-0.220
1.2 Dead+1.0 Wind 300 deg - No Ice	41.869	-18.944	-10.831	-782.136	1371.478	-1.300
0.9 Dead+1.0 Wind 300 deg - No Ice	31.402	-18.944	-10.831	-777.922	1363.374	-1.294
1.2 Dead+1.0 Wind 330 deg - No Ice	41.869	-10.849	-18.913	-1366.484	786.170	-2.027
0.9 Dead+1.0 Wind 330 deg - No Ice	31.402	-10.849	-18.913	-1359.090	781.250	-2.021
1.2 Dead+1.0 Ice+1.0 Temp	60.098	-0.000	0.000	0.066	6.265	-0.000
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	60.098	0.028	-5.690	-402.845	4.200	-0.471
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	60.098	2.873	-4.941	-349.950	-197.210	-0.335
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	60.098	4.947	-2.869	-203.268	-344.071	-0.110
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	60.098	5.696	-0.028	-2.102	-397.031	0.145
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	60.098	4.919	2.820	199.646	-341.900	0.361
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	60.098	2.824	4.913	347.918	-193.449	0.480
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	60.098	-0.028	5.690	402.985	8.544	0.471
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	60.098	-2.873	4.941	350.090	209.955	0.335
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	60.098	-4.947	2.869	203.408	356.816	0.109
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	60.098	-5.696	0.028	2.242	409.776	-0.146
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	60.098	-4.919	-2.820	-199.507	354.644	-0.361
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	60.098	-2.824	-4.913	-347.779	206.193	-0.480
Dead+Wind 0 deg - Service	34.891	0.037	-5.255	-378.429	-0.669	-0.527
Dead+Wind 30 deg - Service	34.891	2.664	-4.569	-329.100	-189.896	-0.431

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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 60 deg - Service	34.891	4.577	-2.659	-191.551	-327.675	-0.220
Dead+Wind 90 deg - Service	34.891	5.264	-0.037	-2.636	-377.087	0.051
Dead+Wind 120 deg - Service	34.891	4.540	2.596	187.023	-324.894	0.308
Dead+Wind 150 deg - Service	34.891	2.600	4.533	326.609	-185.079	0.482
Dead+Wind 180 deg - Service	34.891	-0.037	5.255	378.719	4.894	0.527
Dead+Wind 210 deg - Service	34.891	-2.664	4.569	329.390	194.121	0.431
Dead+Wind 240 deg - Service	34.891	-4.577	2.659	191.841	331.900	0.219
Dead+Wind 270 deg - Service	34.891	-5.264	0.037	2.926	381.313	-0.051
Dead+Wind 300 deg - Service	34.891	-4.540	-2.596	-186.733	329.119	-0.308
Dead+Wind 330 deg - Service	34.891	-2.600	-4.533	-326.319	189.304	-0.482

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	-34.891	0.000	0.000	34.891	0.000	0.000%
2	0.153	-41.869	-21.927	-0.153	41.869	21.927	0.000%
3	0.153	-31.402	-21.927	-0.153	31.402	21.927	0.000%
4	11.115	-41.869	-19.066	-11.115	41.869	19.066	0.000%
5	11.115	-31.402	-19.066	-11.115	31.402	19.066	0.000%
6	19.098	-41.869	-11.097	-19.098	41.869	11.097	0.000%
7	19.098	-31.402	-11.097	-19.098	31.402	11.097	0.000%
8	21.964	-41.869	-0.153	-21.964	41.869	0.153	0.000%
9	21.964	-31.402	-0.153	-21.964	31.402	0.153	0.000%
10	18.944	-41.869	10.831	-18.944	41.869	-10.831	0.000%
11	18.944	-31.402	10.831	-18.944	31.402	-10.831	0.000%
12	10.849	-41.869	18.913	-10.849	41.869	-18.913	0.000%
13	10.849	-31.402	18.913	-10.849	31.402	-18.913	0.000%
14	-0.153	-41.869	21.927	0.153	41.869	-21.927	0.000%
15	-0.153	-31.402	21.927	0.153	31.402	-21.927	0.000%
16	-11.115	-41.869	19.066	11.115	41.869	-19.066	0.000%
17	-11.115	-31.402	19.066	11.115	31.402	-19.066	0.000%
18	-19.098	-41.869	11.097	19.098	41.869	-11.097	0.000%
19	-19.098	-31.402	11.097	19.098	31.402	-11.097	0.000%
20	-21.964	-41.869	0.153	21.964	41.869	-0.153	0.000%
21	-21.964	-31.402	0.153	21.964	31.402	-0.153	0.000%
22	-18.944	-41.869	-10.831	18.944	41.869	10.831	0.000%
23	-18.944	-31.402	-10.831	18.944	31.402	10.831	0.000%
24	-10.849	-41.869	-18.913	10.849	41.869	18.913	0.000%
25	-10.849	-31.402	-18.913	10.849	31.402	18.913	0.000%
26	0.000	-60.098	0.000	0.000	60.098	-0.000	0.000%
27	0.028	-60.098	-5.690	-0.028	60.098	5.690	0.000%
28	2.873	-60.098	-4.941	-2.873	60.098	4.941	0.000%
29	4.947	-60.098	-2.869	-4.947	60.098	2.869	0.000%
30	5.696	-60.098	-0.028	-5.696	60.098	0.028	0.000%
31	4.919	-60.098	2.820	-4.919	60.098	-2.820	0.000%
32	2.824	-60.098	4.913	-2.824	60.098	-4.913	0.000%
33	-0.028	-60.098	5.690	0.028	60.098	-5.690	0.000%
34	-2.873	-60.098	4.941	2.873	60.098	-4.941	0.000%
35	-4.947	-60.098	2.869	4.947	60.098	-2.869	0.000%
36	-5.696	-60.098	0.028	5.696	60.098	-0.028	0.000%
37	-4.919	-60.098	-2.820	4.919	60.098	2.820	0.000%
38	-2.824	-60.098	-4.913	2.824	60.098	4.913	0.000%
39	0.037	-34.891	-5.255	-0.037	34.891	5.255	0.000%
40	2.664	-34.891	-4.569	-2.664	34.891	4.569	0.000%
41	4.577	-34.891	-2.659	-4.577	34.891	2.659	0.000%
42	5.264	-34.891	-0.037	-5.264	34.891	0.037	0.000%

<p>tnxTower</p> <p>MTS Engineering, P.L.L.C. 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	Job 92699.012.01.0001 - MERIDEN WEST CENTRAL, CT (BU# 842869)	Page 16 of 19
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	Client Crown Castle	Designed by Rakshak

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
43	4.540	-34.891	2.596	-4.540	34.891	-2.596	0.000%
44	2.600	-34.891	4.533	-2.600	34.891	-4.533	0.000%
45	-0.037	-34.891	5.255	0.037	34.891	-5.255	0.000%
46	-2.664	-34.891	4.569	2.664	34.891	-4.569	0.000%
47	-4.577	-34.891	2.659	4.577	34.891	-2.659	0.000%
48	-5.264	-34.891	0.037	5.264	34.891	-0.037	0.000%
49	-4.540	-34.891	-2.596	4.540	34.891	2.596	0.000%
50	-2.600	-34.891	-4.533	2.600	34.891	4.533	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	4	0.00000001	0.00006877
3	Yes	4	0.00000001	0.00004662
4	Yes	4	0.00000001	0.00017348
5	Yes	4	0.00000001	0.00011577
6	Yes	4	0.00000001	0.00020698
7	Yes	4	0.00000001	0.00013883
8	Yes	4	0.00000001	0.00001476
9	Yes	4	0.00000001	0.00000862
10	Yes	4	0.00000001	0.00021115
11	Yes	4	0.00000001	0.00014203
12	Yes	4	0.00000001	0.00016428
13	Yes	4	0.00000001	0.00010976
14	Yes	4	0.00000001	0.00007507
15	Yes	4	0.00000001	0.00005089
16	Yes	4	0.00000001	0.00022800
17	Yes	4	0.00000001	0.00015288
18	Yes	4	0.00000001	0.00018490
19	Yes	4	0.00000001	0.00012300
20	Yes	4	0.00000001	0.00001885
21	Yes	4	0.00000001	0.00001169
22	Yes	4	0.00000001	0.00017090
23	Yes	4	0.00000001	0.00011386
24	Yes	4	0.00000001	0.00022751
25	Yes	4	0.00000001	0.00015305
26	Yes	4	0.00000001	0.00001067
27	Yes	4	0.00000001	0.00015478
28	Yes	4	0.00000001	0.00015693
29	Yes	4	0.00000001	0.00015581
30	Yes	4	0.00000001	0.00015088
31	Yes	4	0.00000001	0.00015482
32	Yes	4	0.00000001	0.00015607
33	Yes	4	0.00000001	0.00015549
34	Yes	4	0.00000001	0.00016267
35	Yes	4	0.00000001	0.00016375
36	Yes	4	0.00000001	0.00015928
37	Yes	4	0.00000001	0.00016186
38	Yes	4	0.00000001	0.00016066
39	Yes	4	0.00000001	0.00000001
40	Yes	4	0.00000001	0.00000001
41	Yes	4	0.00000001	0.00000488
42	Yes	4	0.00000001	0.00000001
43	Yes	4	0.00000001	0.00000536

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44	Yes	4	0.00000001	0.00000001
45	Yes	4	0.00000001	0.00000001
46	Yes	4	0.00000001	0.00000607
47	Yes	4	0.00000001	0.00000001
48	Yes	4	0.00000001	0.00000001
49	Yes	4	0.00000001	0.00000001
50	Yes	4	0.00000001	0.00000633

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	100 - 47	4.875	47	0.378	0.002
L2	53 - 0	1.554	47	0.259	0.001

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
100.000	Lightning Rod 1/2" x 8'	47	4.875	0.378	0.002	90956
88.000	ERICSSON AIR 21 B2A B4P w/ Mount Pipe	47	3.918	0.354	0.001	37898
80.000	800 EXTERNAL NOTCH FILTER	47	3.302	0.336	0.001	22739
78.000	APXVSPP18-C-A20 w/ Mount Pipe	47	3.153	0.332	0.001	20672
65.000	BXA-70063/6CF w/ Mount Pipe	47	2.250	0.298	0.001	12993
55.000	MX08FRO665-21 w/ Mount Pipe	47	1.659	0.266	0.001	10183

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	100 - 47	20.285	18	1.569	0.007
L2	53 - 0	6.478	18	1.079	0.003

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
100.000	Lightning Rod 1/2" x 8'	18	20.285	1.569	0.007	21943
88.000	ERICSSON AIR 21 B2A B4P w/ Mount Pipe	18	16.308	1.470	0.006	9143
80.000	800 EXTERNAL NOTCH FILTER	18	13.750	1.398	0.005	5485
78.000	APXVSPP18-C-A20 w/ Mount Pipe	18	13.130	1.379	0.005	4986

tnxTower MTS Engineering, P.L.L.C. 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job 92699.012.01.0001 - MERIDEN WEST CENTRAL, CT (BU# 842869)	Page 18 of 19
	Project	Date 17:37:22 11/02/23
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Elevation	Appurtenance	Gov. Load Comb.	Deflection	Tilt	Twist	Radius of Curvature
ft			in	°	°	ft
65.000	BXA-70063/6CF w/ Mount Pipe	18	9.375	1.240	0.004	3133
55.000	MX08FRO665-21 w/ Mount Pipe	18	6.914	1.108	0.003	2455

Compression Checks

Pole Design Data

Section No.	Elevation	Size	L	L _u	KI/r	A	P _u	φP _n	Ratio
	ft		ft	ft		in ²	K	K	$\frac{P_u}{\phi P_n}$
L1	100 - 47 (1)	TP40.72x28x0.313	53.000	0.000	0.0	38.846	-27.309	2272.480	0.012
L2	47 - 0 (2)	TP51.37x38.655x0.375	53.000	0.000	0.0	61.003	-41.858	3568.660	0.012

Pole Bending Design Data

Section No.	Elevation	Size	M _{ux}	φM _{ux}	Ratio	M _{uy}	φM _{uy}	Ratio
	ft		kip-ft	kip-ft	$\frac{M_{ux}}{\phi M_{ux}}$	kip-ft	kip-ft	$\frac{M_{uy}}{\phi M_{uy}}$
L1	100 - 47 (1)	TP40.72x28x0.313	517.733	2103.400	0.246	0.000	2103.400	0.000
L2	47 - 0 (2)	TP51.37x38.655x0.375	1599.167	4179.683	0.383	0.000	4179.683	0.000

Pole Shear Design Data

Section No.	Elevation	Size	Actual V _u	φV _n	Ratio	Actual T _u	φT _n	Ratio
	ft		K	K	$\frac{V_u}{\phi V_n}$	kip-ft	kip-ft	$\frac{T_u}{\phi T_n}$
L1	100 - 47 (1)	TP40.72x28x0.313	18.659	681.743	0.027	0.916	2329.483	0.000
L2	47 - 0 (2)	TP51.37x38.655x0.375	22.108	1070.600	0.021	0.915	4787.300	0.000

Pole Interaction Design Data

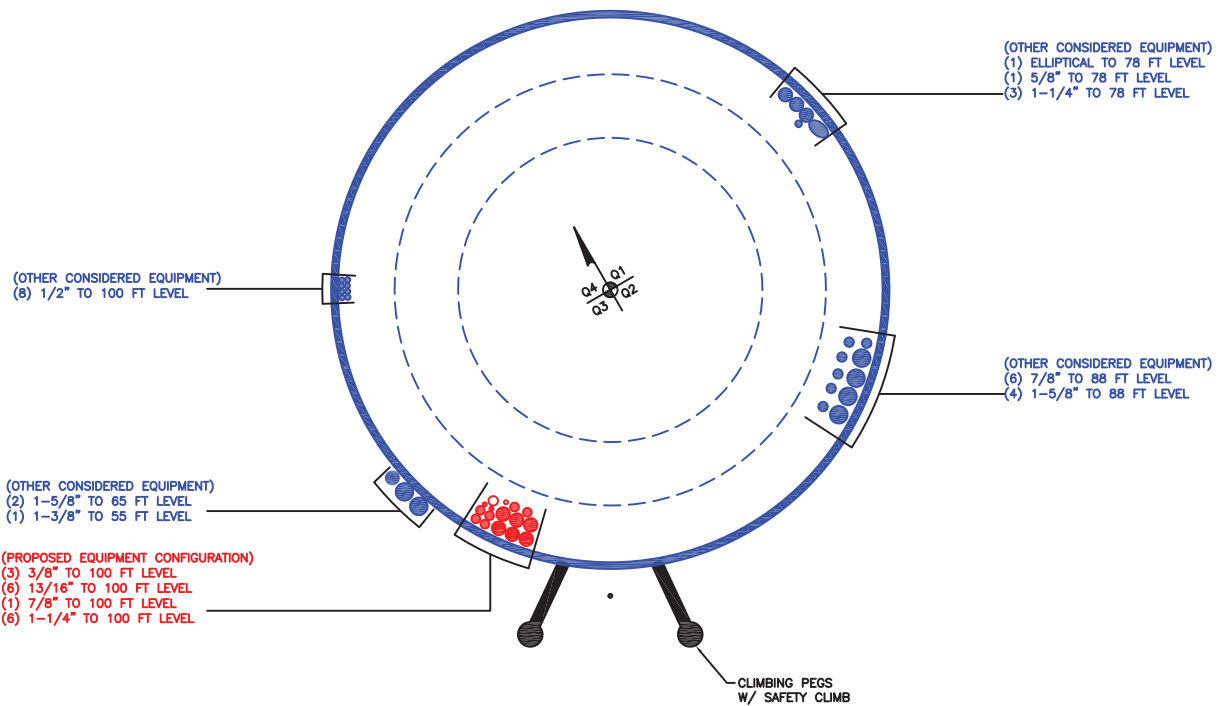
Section No.	Elevation	Ratio P _u	Ratio M _{ux}	Ratio M _{uy}	Ratio V _u	Ratio T _u	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
	ft	$\frac{P_u}{\phi P_n}$	$\frac{M_{ux}}{\phi M_{ux}}$	$\frac{M_{uy}}{\phi M_{uy}}$	$\frac{V_u}{\phi V_n}$	$\frac{T_u}{\phi T_n}$			
L1	100 - 47 (1)	0.012	0.246	0.000	0.027	0.000	0.259	1.050	4.8.2 ✓
L2	47 - 0 (2)	0.012	0.383	0.000	0.021	0.000	0.395	1.050	4.8.2 ✓

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Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	$\emptyset P_{allow}$ K	% Capacity	Pass Fail
L1	100 - 47	Pole	TP40.72x28x0.313	1	-27.309	2386.104	24.7	Pass
L2	47 - 0	Pole	TP51.37x38.655x0.375	2	-41.858	3747.093	37.6	Pass
Summary								
Pole (L2)							37.6	Pass
RATING =							37.6	Pass

APPENDIX B
BASE LEVEL DRAWING



BUSINESS UNIT: 842869

APPENDIX C
ADDITIONAL CALCULATIONS

Monopole Base Plate Connection

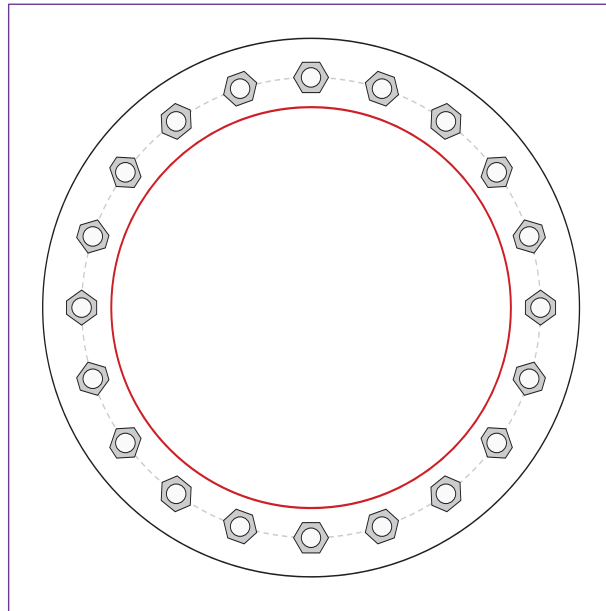


Site Info	
BU #	842869
Site Name	RIDEN WEST CENTRAL
Order #	586269 Rev# 7

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

Applied Loads	
Moment (kip-ft)	1599.17
Axial Force (kips)	41.86
Shear Force (kips)	22.11

*TIA-222-H Section 15.5 Applied



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

Anchor Rod Data
(20) 2-1/2" ϕ bolts (A572-50 N; $F_y=50$ ksi, $F_u=65$ ksi) on 59" BC
Base Plate Data
69" OD x 3" Plate (A36; $F_y=36$ ksi, $F_u=58$ ksi)
Stiffener Data
N/A
Pole Data
51.37" x 0.375" 16-sided pole (A572-65; $F_y=65$ ksi, $F_u=80$ ksi)

Anchor Rod Summary		<i>(units of kips, kip-in)</i>
$Pu_t = 62.91$	$\phi Pn_t = 195$	Stress Rating
$Vu = 1.11$	$\phi Vn = 119.65$	30.7%
$Mu = n/a$	$\phi Mn = n/a$	Pass
Base Plate Summary		
Max Stress (ksi):	8.56	(Flexural)
Allowable Stress (ksi):	32.4	
Stress Rating:	25.2%	Pass

Pier and Pad Foundation



BU #: 842869
 Site Name: MERIDEN WEST C
 App. Number: 586269 Rev# 7

TIA-222 Revision: H
 Tower Type: Monopole

Top & Bot. Pad Rein. Different?:
 Block Foundation?:
 Rectangular Pad?:

Superstructure Analysis Reactions		
Compression, P_{comp} :	41.87	kips
Base Shear, V_{u_comp} :	22.09	kips
Moment, M_u :	1599.17	ft-kips
Tower Height, H :	100	ft
BP Dist. Above Fdn, bp_{dist} :	3.25	in

Foundation Analysis Checks				
	Capacity	Demand	Rating*	Check
<i>Lateral (Sliding) (kips)</i>	190.91	22.09	11.0%	Pass
<i>Bearing Pressure (ksf)</i>	6.62	2.21	31.8%	Pass
<i>Overturning (kip*ft)</i>	3749.59	1792.92	47.8%	Pass
<i>Pier Flexure (Comp.) (kip*ft)</i>	16129.19	1731.71	10.2%	Pass
<i>Pier Compression (kip)</i>	40734.72	110.99	0.3%	Pass
<i>Pad Flexure (kip*ft)</i>	3474.94	456.87	12.5%	Pass
<i>Pad Shear - 1-way (kips)</i>	576.22	99.40	16.4%	Pass
<i>Pad Shear - 2-way (Comp) (ksi)</i>	0.190	0.025	12.5%	Pass
<i>Flexural 2-way (Comp) (kip*ft)</i>	5377.97	1039.03	18.4%	Pass

Pier Properties		
Pier Shape:	Square	
Pier Diameter, $dpier$:	8	ft
Ext. Above Grade, E :	1	ft
Pier Rebar Size, Sc :	11	
Pier Rebar Quantity, mc :	60	
Pier Tie/Spiral Size, St :	4	
Pier Tie/Spiral Quantity, mt :	7	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier} :	3	in

*Rating per TIA-222-H Section 15.5

Structural Rating*:	18.4%
Soil Rating*:	47.8%

Pad Properties		
Depth, D :	7.5	ft
Pad Width, W_1 :	20	ft
Pad Thickness, T :	2.5	ft
Pad Rebar Size (Bottom dir. 2), Sp_2 :	9	
Pad Rebar Quantity (Bottom dir. 2), mp_2 :	32	
Pad Clear Cover, cc_{pad} :	3	in

Material Properties		
Rebar Grade, F_y :	60	ksi
Concrete Compressive Strength, F'_c :	4	ksi
Dry Concrete Density, δ_c :	150	pcf

Soil Properties		
Total Soil Unit Weight, γ :	110	pcf
Ultimate Net Bearing, Q_{net} :	8.000	ksf
Cohesion, C_u :	0.000	ksf
Friction Angle, ϕ :	30	degrees
SPT Blow Count, N_{blows} :		
Base Friction, μ :	0.35	
Neglected Depth, N :	3.50	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, gw :	N/A	ft

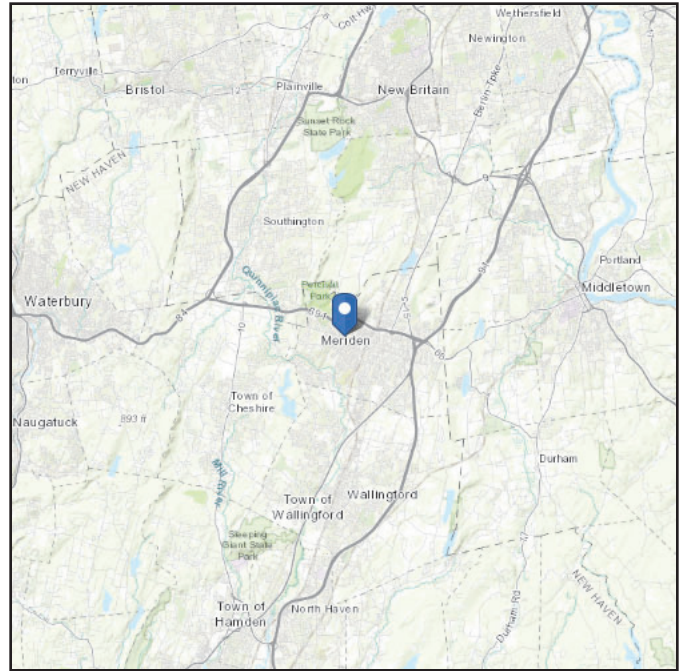
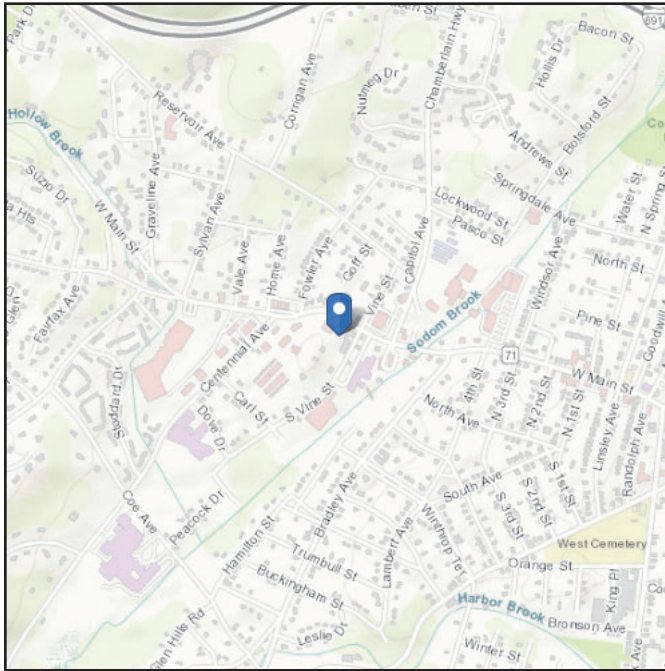
<-- Toggle between Gross and Net

ASCE 7 Hazards Report

Address:
No Address at This Location

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

Latitude: 41.540031
Longitude: -72.819019
Elevation: 170.1153536785993 ft (NAVD 88)



Wind

Results:

Wind Speed	119 Vmph
10-year MRI	75 Vmph
25-year MRI	84 Vmph
50-year MRI	90 Vmph
100-year MRI	98 Vmph

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

Date Accessed: Thu Nov 02 2023

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

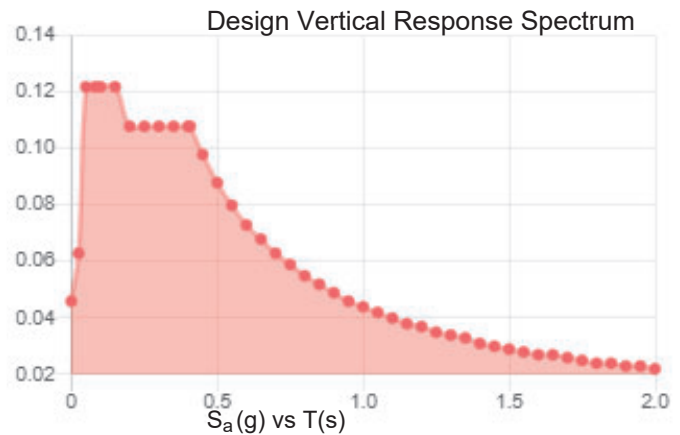
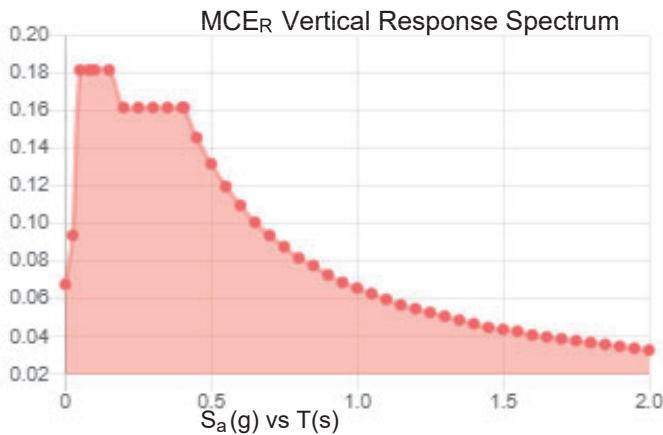
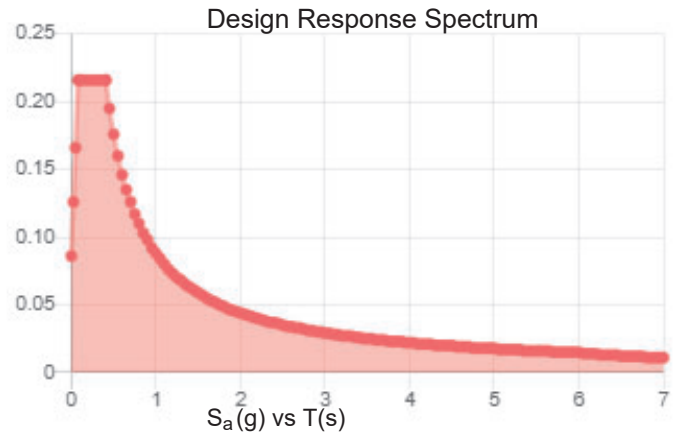
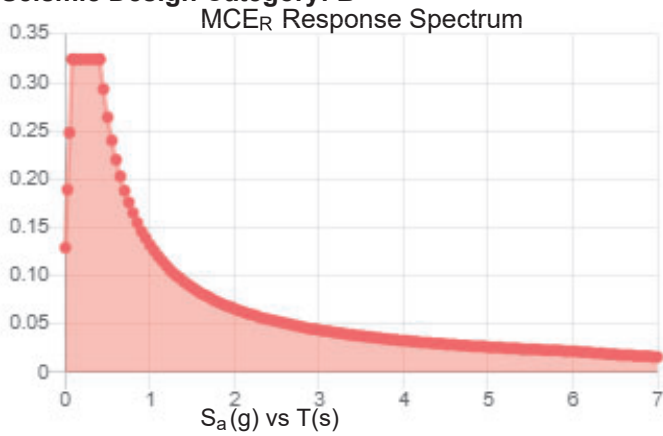
Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

Site Soil Class:

Results:

S_s :	0.202	S_{D1} :	0.088
S_1 :	0.055	T_L :	6
F_a :	1.6	PGA :	0.112
F_v :	2.4	PGA _M :	0.177
S_{MS} :	0.324	F_{PGA} :	1.576
S_{M1} :	0.132	I_e :	1
S_{DS} :	0.216	C_v :	0.704

Seismic Design Category: B



Data Accessed: Thu Nov 02 2023

Date Source:

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

Ice

Results:

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

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

Date Accessed: Thu Nov 02 2023

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

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

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December 22, 2022



Tower Engineering Professionals
326 Tryon Road
Raleigh, NC 27603
(919) 661-6351
CrownMA@tepgroup.net

Subject: **Mount Replacement Analysis**

Carrier Designation: **AT&T Mobility Reconfiguration**
Client Site Number: CT5378
Client Site Name: Meriden West Central
FA Location Code: 10071118

Crown Castle Designation: **Crown Castle BU Number:** 842869
Crown Castle Site Name: Meriden West Central
Crown Castle JDE Job Number: 686239
Crown Castle Order Number: 586269 Rev. 3

Engineering Firm Designation: **TEP Project Number:** 217612.798269

Site Data: **450-478 West Main Street, Meriden, New Haven County, CT 06451**
Latitude 41° 32' 24.11", Longitude -72° 49' 08.47"

Structure Information: **Tower Height & Type:** 100.0± ft Monopole
Mount Elevation: 99.0 ft
Mount Width & Type: 14.5 ft Platform w/ Support Rail

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

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

Platform w/ Support Rail

Sufficient Capacity with Mount Replacement

This analysis utilizes an ultimate 3-second gust wind speed of 119 mph as required by the 2022 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Gautam Sopal, E.I. / RAL

Respectfully submitted by:

Aaron T. Rucker, P.E.
Structural Department Manager
919-661-6351
arucker@tepgroup.net



Electronic Copy

12/22/2022

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1) INTRODUCTION

The mount is a proposed 14.5-ft 3-sector Platform w/ Support Rail mount, designed by Perfect Vision. The mount is to be installed at the 99.0 ft elevation on the 100.0± ft Monopole.

2) ANALYSIS CRITERIA

Building Code:	2022 Connecticut State Building Code
TIA-222 Revision:	TIA-222-H
Risk Category:	II
Ultimate Wind Speed:	119 mph
Exposure Category:	B
Topographic Category at Base:	1.0
Topographic Category at Mount:	1.0
Ice Thickness:	1.0 in
Wind Speed with Ice:	50 mph
Seismic Design Category:	B
Seismic S_s:	0.202
Seismic S₁:	0.055
Live Loading Wind Speed:	30 mph
Live Loading at Mid/Endpoints:	250 lb
Man Live Loading at Mount Pipes:	500 lb

Table 1 - Proposed Equipment Configuration

Mount Centerline (ft)	Antenna Centerline (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Mount / Modification Details
99.0	101.0	3	Ericsson	AIR 6419 B77G_CCIV3	PV-LPPGS-14M-HR25-HWLL Platform w/ Support Rail Mount (AT&T CONMAT Item No. CEQ.53348)
	99.0	3	CCI Antennas	OPA65R-BU6D	
		3	Quintel	QD6616-7	
		3	Ericsson	RRUS 32 B2	
		3	Ericsson	RRUS 32 B30	
		3	Ericsson	RRUS 32 B66	
		3	Ericsson	RRUS 4449 B5/B12	
		3	Ericsson	RRUS 4478 B14	
		2	Raycap	DC6-48-60-18-8F	
		1	Raycap	DC9-48-60-24-8C-EV_CCIV2	
		3	Ericsson	2012 B29	
	97.0	3	Ericsson	AIR 6449 B77D_CCVI2	

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

Document	Remarks	Reference	Source
Previous Mount Analysis	Tower Engineering Professionals	10580358	CCIsites
Mount Manufacturer Drawings	Perfect Vision	LPPGS-ENG-14-R0	TEP
Loading Application	AT&T Mobility	Order 586269 Rev. 3	CCIsites
RFDS	AT&T Mobility	RFDS ID: 4541455	CCIsites

3.1) Analysis Method

RISA-3D (Version 17.0.4), a commercially available analysis software package, was used to create a three-dimensional model of the mount and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A and Appendix C.

TEP Mount Analysis Tool, a tool internally developed by TEP using Microsoft Excel, was used to calculate member loading for various load cases. Selected output from the analysis is included in Appendix B.

This analysis was performed in accordance with Crown Castle's ENG-SOW-10208 *Tower Mount Analysis (Revision E)*.

In addition, this analysis is in accordance with AT&T's *Mount Technical Guidance – Revision 22*.

3.2) Assumptions

- 1) The mount was built in accordance with the manufacturer's specifications.
- 2) The mount has been maintained in accordance with the manufacturer's specification.
- 3) The configuration of antennas, mounts and other appurtenances are as specified in Table 1. All mount components have been assumed to be in sufficient condition to carry their full design capacity for this analysis. Refer to the issued mapping for any structural and/or maintenance issues found during our site visit if applicable.
- 4) All mount components are in sufficient condition to carry their full design capacity.
- 5) TEP did not analyze the collar mount connection to the pole and assumes it to have sufficient structural capacity to transfer the applied forces from the mount to the tower.
- 6) All material grades used for this analysis, unless verified by mount manufacturer design, were assumed per AISC Table 2-4, 15th Edition. See RISA-3D output for confirmation on grades used in this analysis.

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

4) ANALYSIS RESULTS

Table 3 - Mount Component Stresses vs. Capacity (Platform w/ Support Rail Mount)

Notes	Component	Critical Member	Mount Centerline (ft)	% Capacity	Pass / Fail
1	Face Horizontals	FFTH-3	99.0	17.8	Pass
1	Support Arm	SA-1	99.0	38.3	Pass
1	Internals	GSI-3A	99.0	39.2	Pass
1	Support Rail	SR-2	99.0	20.7	Pass
1	Mount Pipes	MP-3	99.0	25.1	Pass
2	Connection Bolts	-	99.0	27.7	Pass
2	Connection Plate	-	99.0	36.4	Pass

Structure Rating (max from all components) =	39.2%
---	--------------

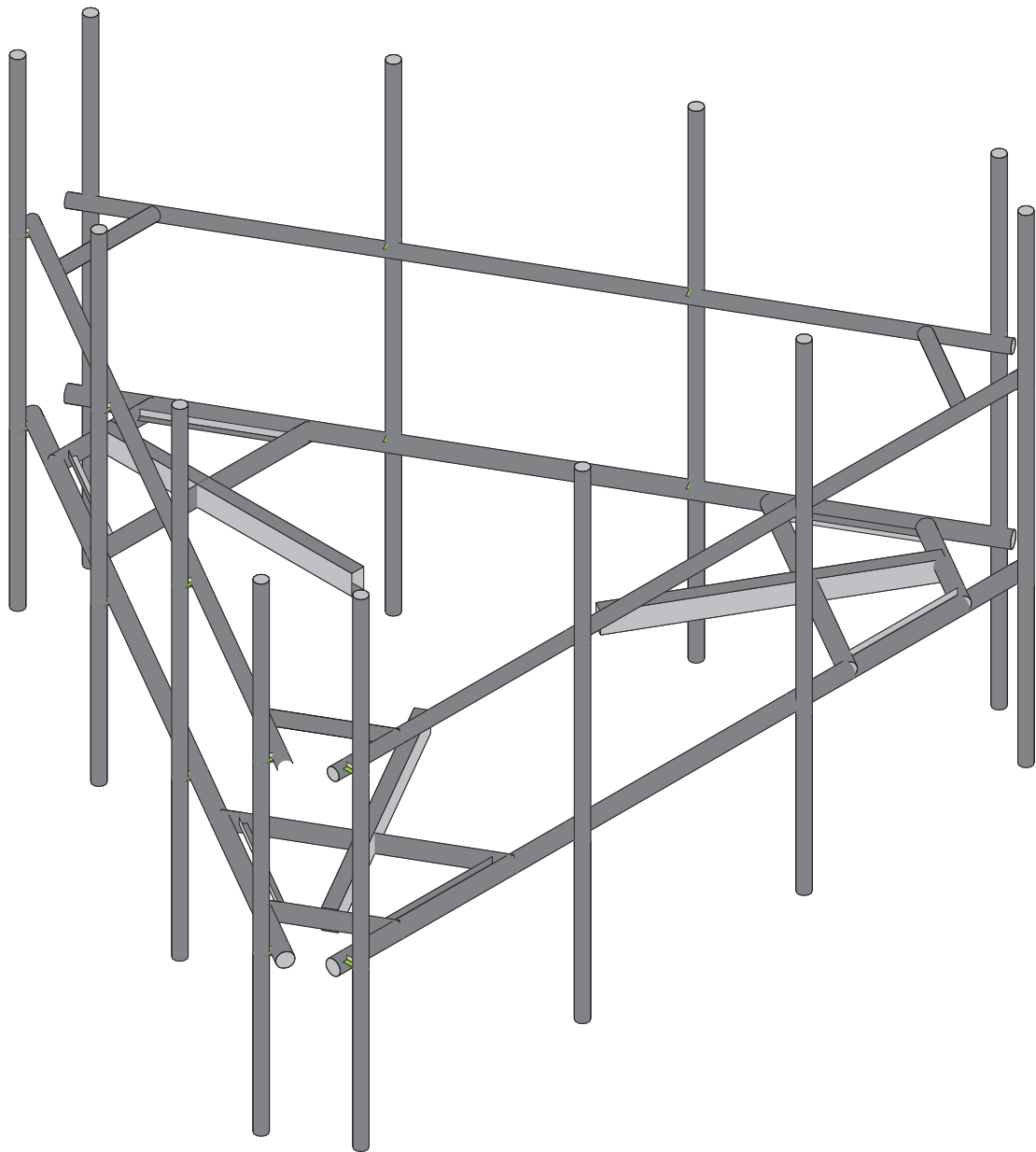
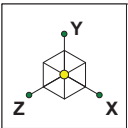
Notes:

- 1) See additional documentation in "Appendix C - Analysis Output" for calculations supporting the % capacity listed.
- 2) See additional documentation in "Appendix D - Additional Calculations" for calculations supporting the % capacity listed.

4.1) Recommendations

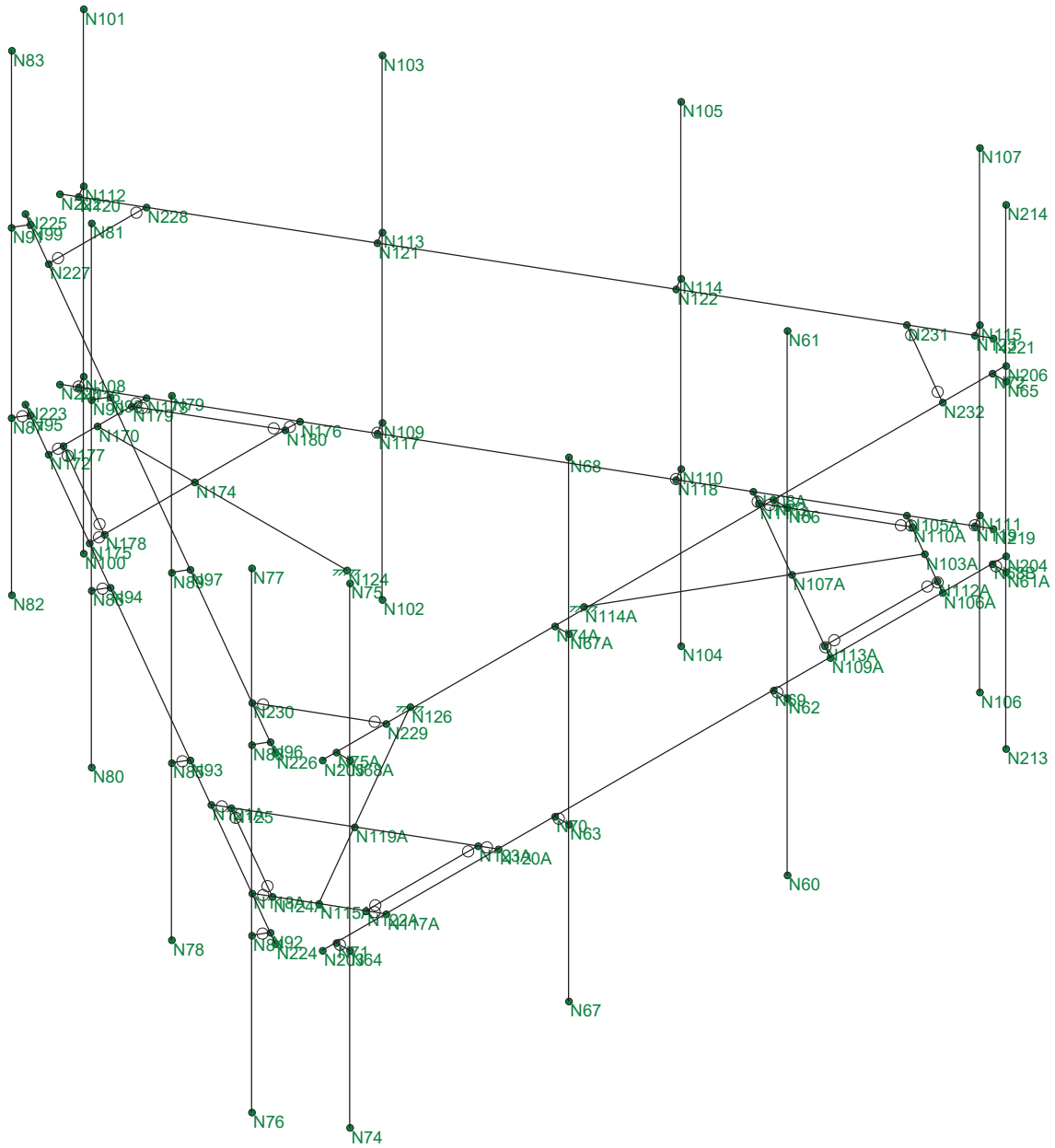
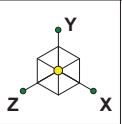
- 1) If the load differs from that described in Table 1 of this report or the provisions of this analysis are found to be invalid, another structural analysis should be performed.
- 2) The existing mount does not have sufficient capacity to carry the proposed loading configuration. In order for the results of this analysis to be considered valid, the mount listed below shall be installed to support the proposed loading configuration.
 - a) Perfect Vision PV-LPPGS-14M-HR25-HWLL (AT&T CONMAT Item No. CEQ.53348), or approved equivalent

APPENDIX A
WIRE FRAME AND RENDERED MODELS



Envelope Only Solution

Tower Engineering Profes...	CCI BU No. 842869	SK - 1
GJS		Dec 22, 2022 at 2:03 PM
TEP No. 217612.798269		Mount Rev H.r3d



Envelope Only Solution

Tower Engineering Profes...

GJS

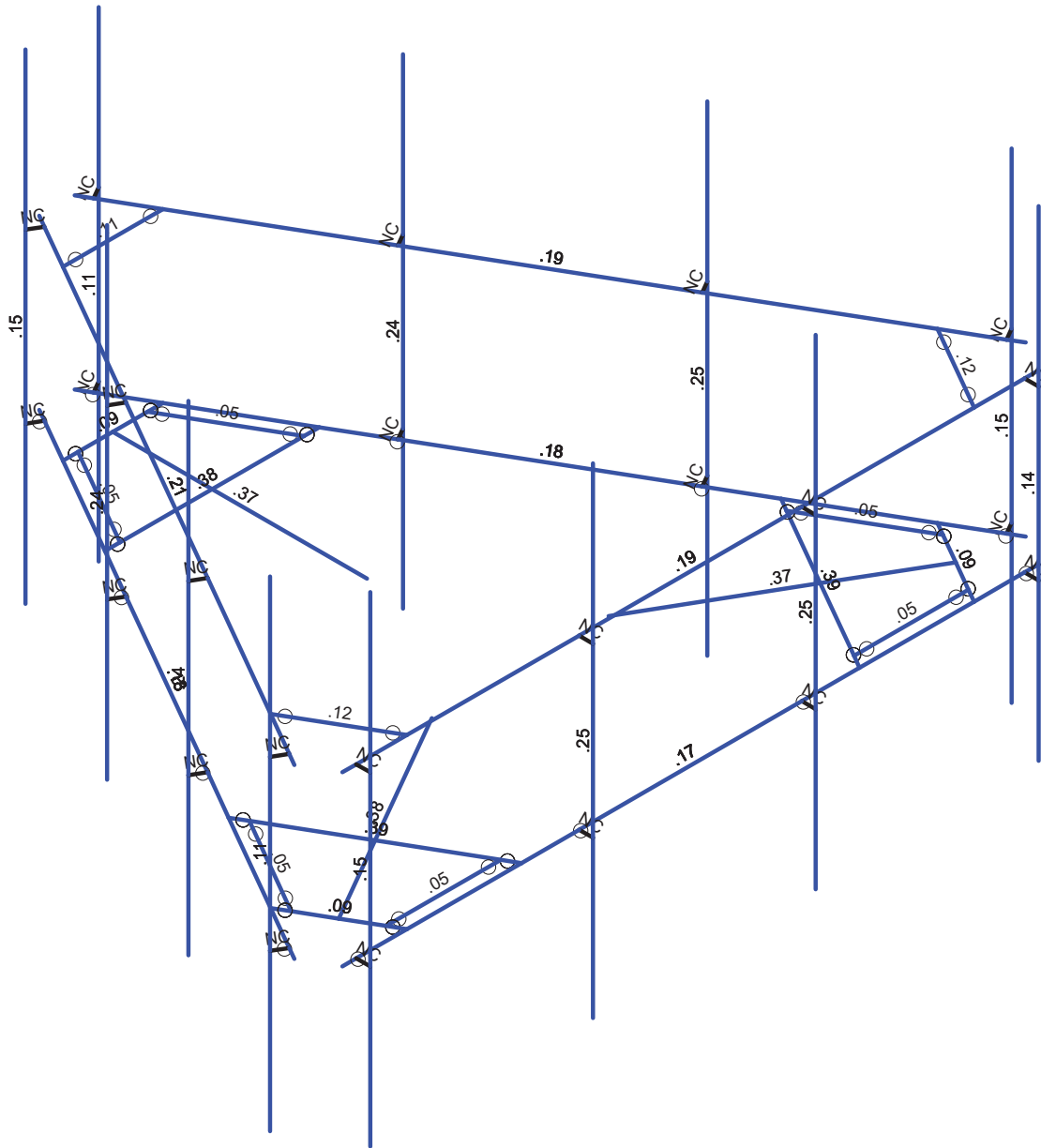
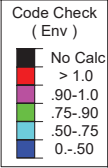
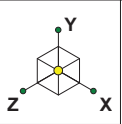
TEP No. 217612.798269

CCI BU No. 842869

SK - 2

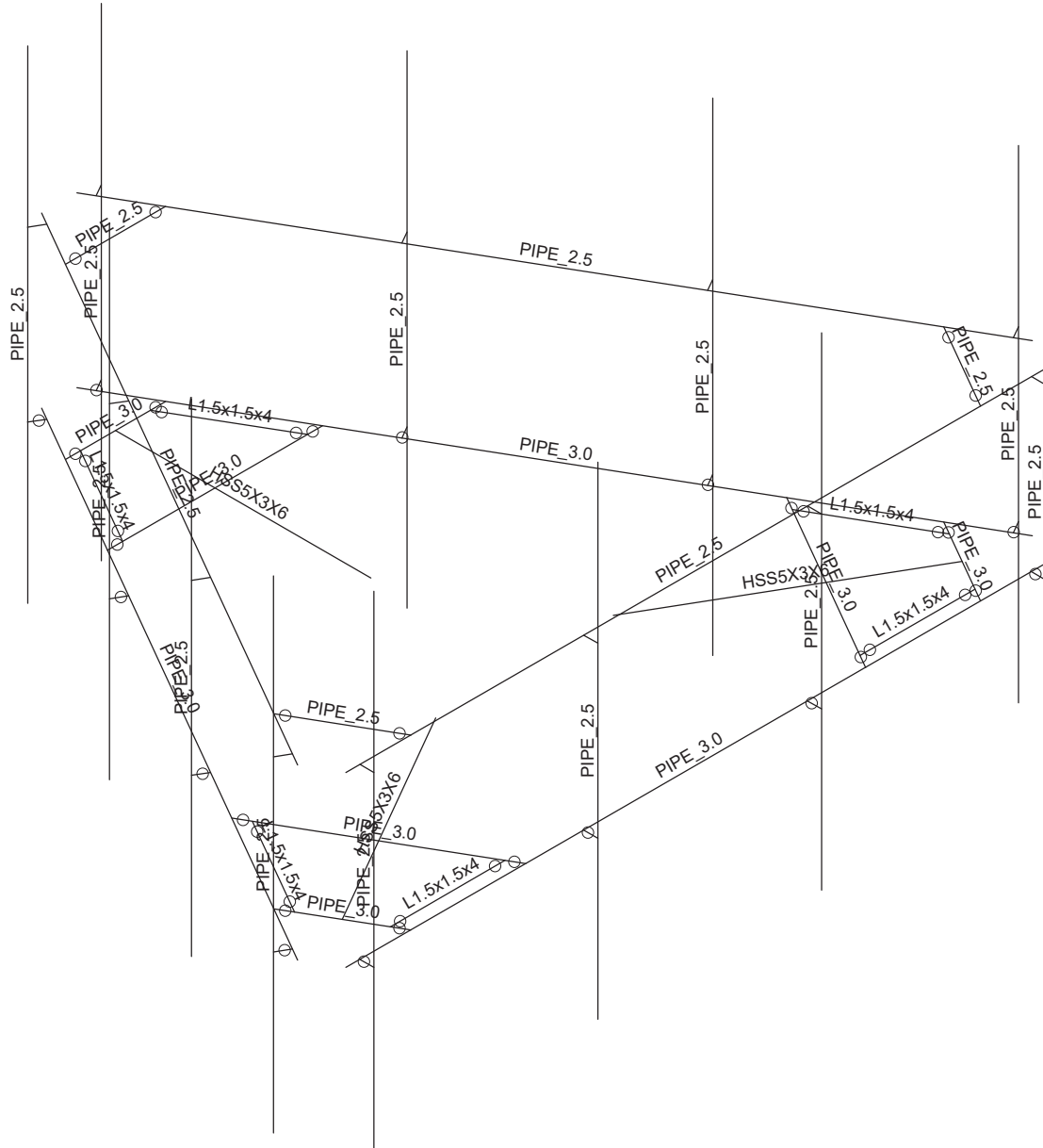
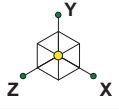
Dec 22, 2022 at 2:03 PM

Mount Rev H.r3d



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Tower Engineering Profes...	CCI BU No. 842869	SK - 3
GJS		Dec 22, 2022 at 2:04 PM
TEP No. 217612.798269		Mount Rev H.r3d



Envelope Only Solution

Tower Engineering Profes...

GJS

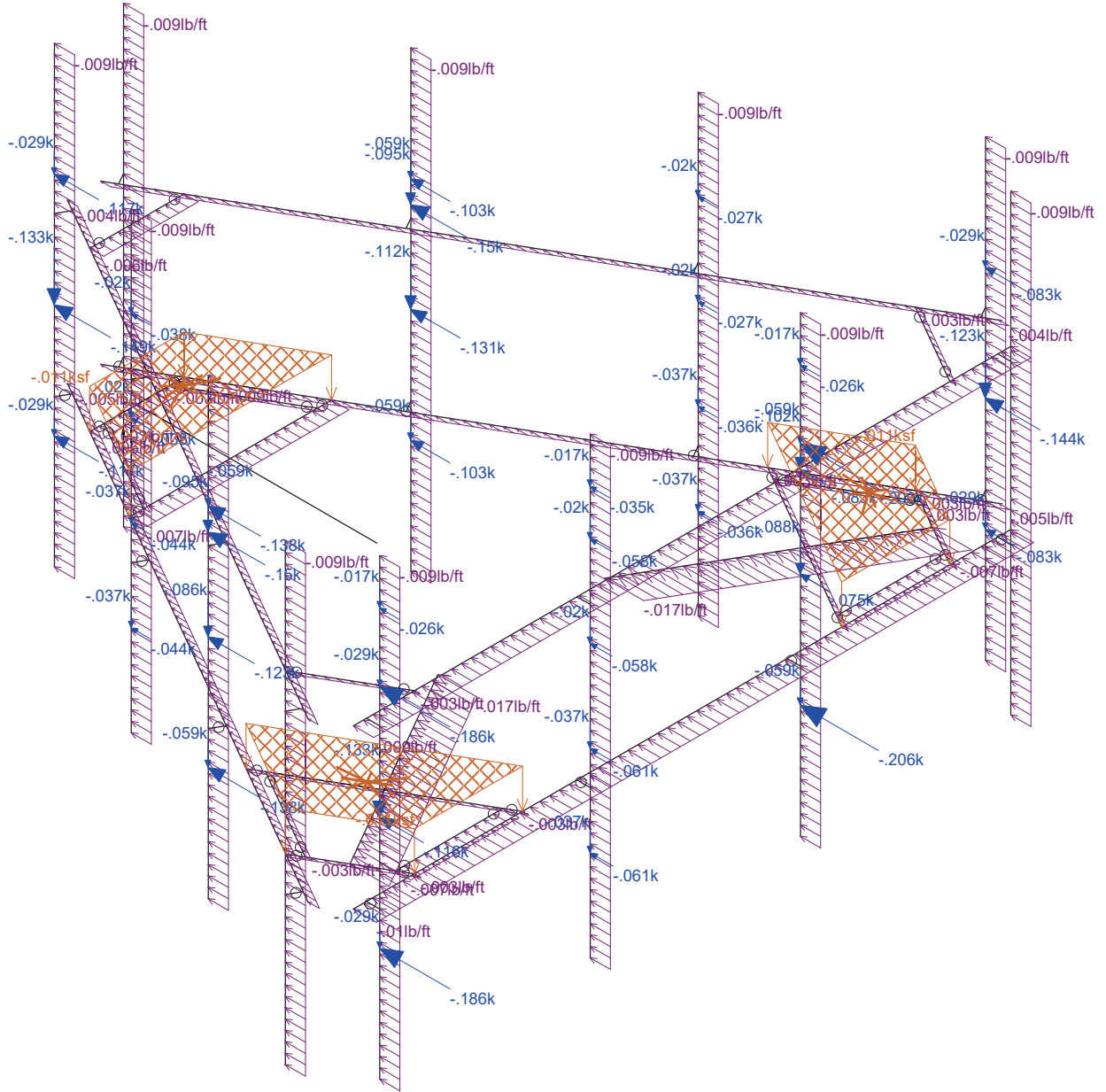
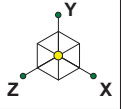
TEP No. 217612.798269

CCI BU No. 842869

SK - 4

Dec 22, 2022 at 2:04 PM

Mount Rev H.r3d

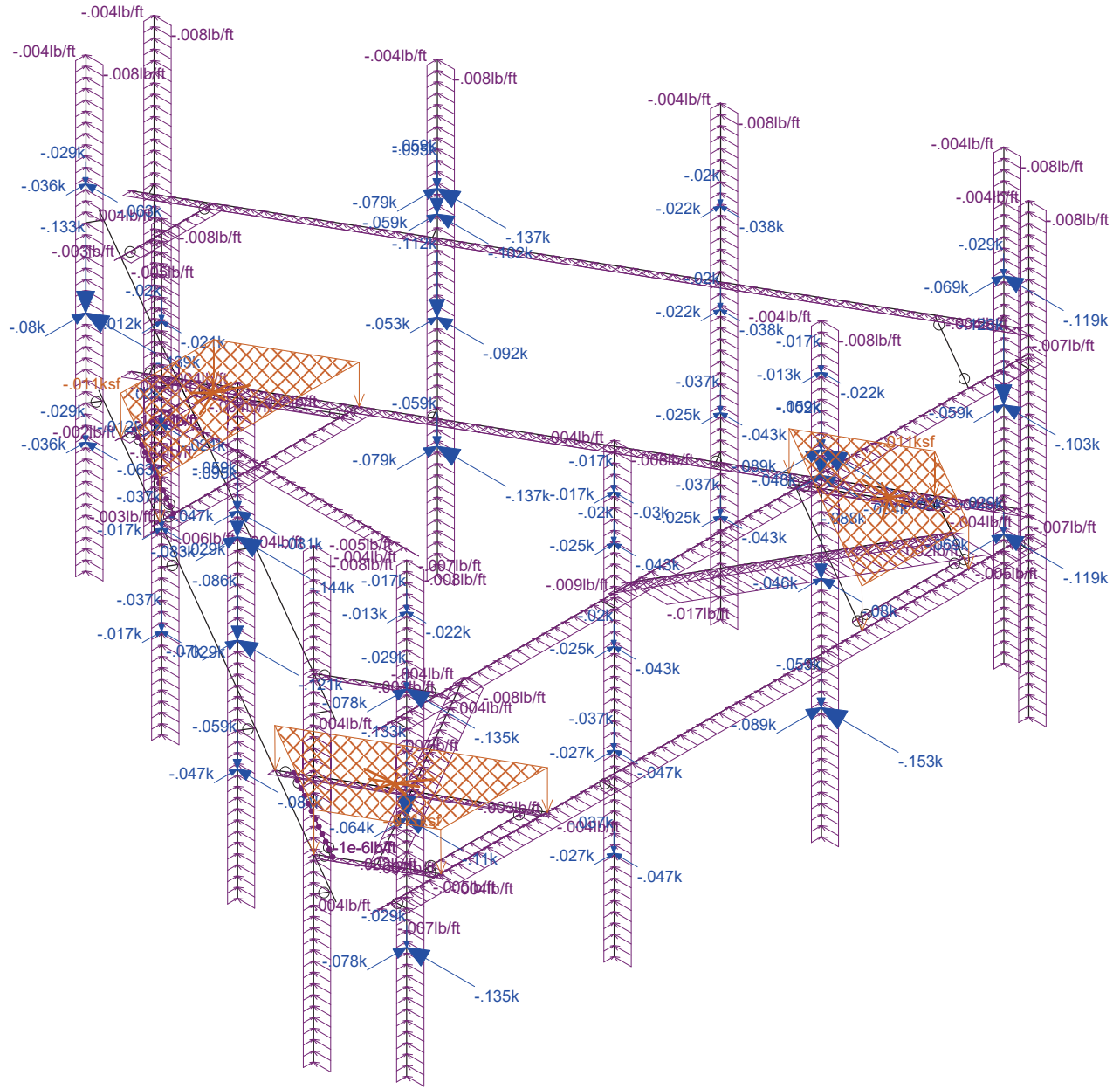
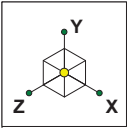


Loads: LC 2, 0.9D+1.0 0-Wind
Envelope Only Solution

Tower Engineering Profes...
GJS
TEP No. 217612.798269

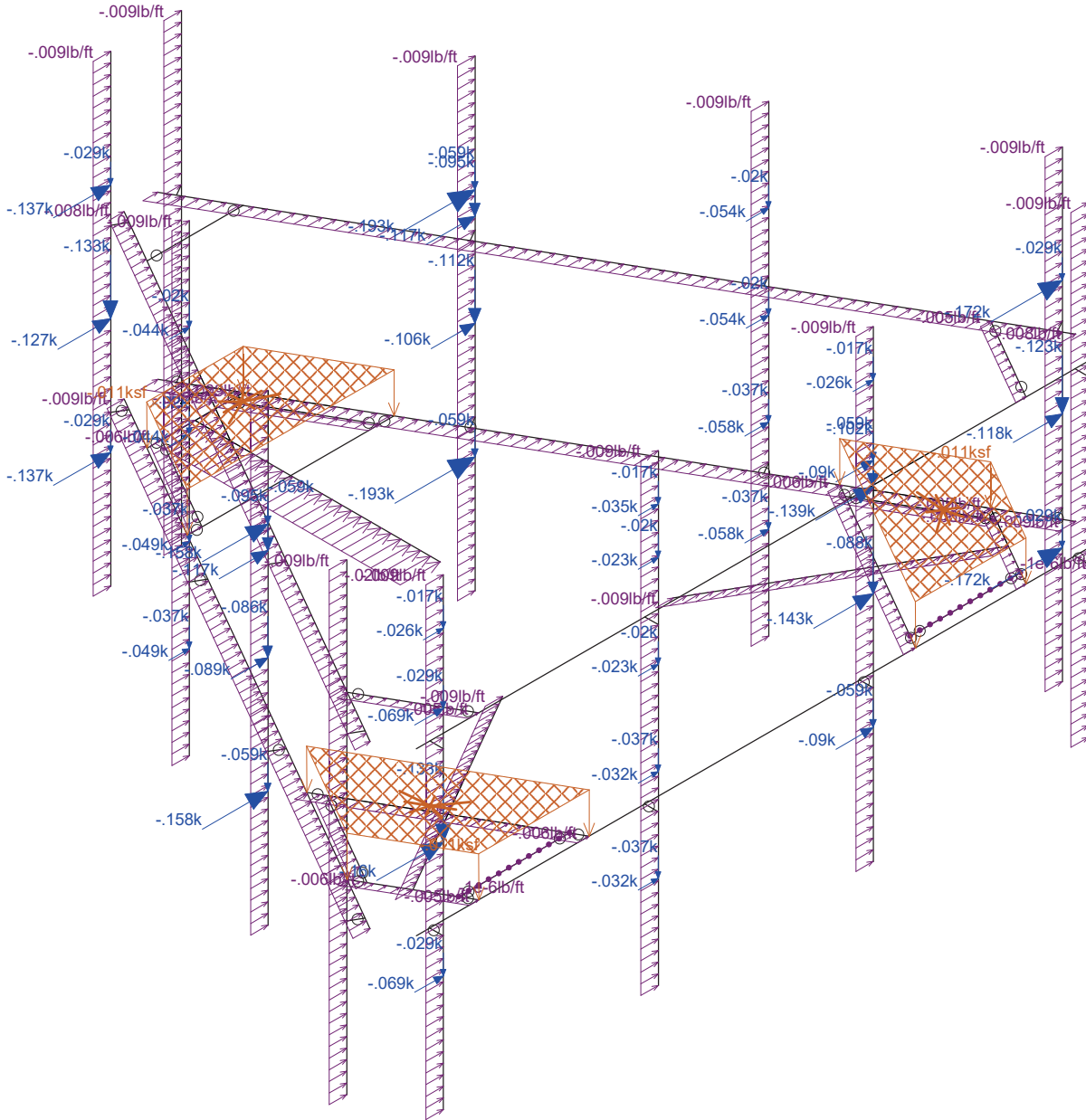
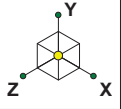
CCI BU No. 842869

SK - 5
Dec 22, 2022 at 2:06 PM
Mount Rev H.r3d



Loads: LC 3, 0.9D+1.0 30-Wind
Envelope Only Solution

Tower Engineering Profes...		SK - 6
GJS	CCI BU No. 842869	Dec 22, 2022 at 2:06 PM
TEP No. 217612.798269		Mount Rev H.r3d



Loads: LC 6, 0.9D+1.0 90-Wind
Envelope Only Solution

Tower Engineering Profes...		SK - 8
GJS	CCI BU No. 842869	Dec 22, 2022 at 2:07 PM
TEP No. 217612.798269		Mount Rev H.r3d

APPENDIX B
SOFTWARE INPUT CALCULATIONS



Code Revisions:	TIA-222-H	IBC 2021
Tower Type:	Monopole	

Wind Inputs:		
Ult. Wind Velocity:	119	mph
Live Load Velocity:	30	mph
Ice Wind Velocity:	50	mph
Base Ice Thickness:	1.00	inches
Mount Centerline:	99.0	ft
Antenna Centerline:	99.0	ft
Exposure Category:	B	
Topo Category:	1	
Risk Category:	II	
Ground Elevation:	165	ft

Wind Calculations:		
K_{zt} :	1.000	Section 2.6.6
K_d :	0.950	
$K_{z-Mount}$:	0.985	Section 2.6.5.2
$K_{z-Antenna}$:	0.985	Section 2.6.5.2
K_{iz} :	1.116	Section 2.6.10
Ice Thickness:	1.116	inches - Section 2.6.10
K_e :	0.994	Table 2-6

Without Ice - (psf)	With Ice - (psf)
$(q_z G_h)_{Mount}$: 33.73	$(q_z G_h)_{Mount}$: 5.96
$(q_z G_h)_{Antenna}$: 33.73	$(q_z G_h)_{Antenna}$: 5.96

Seismic Code Revisions:	TIA-222-H
Seismic Risk Category:	II

Seismic Input		
S_{DS} :	0.216	Design Short Period Spectral Accel.
I_p :	1.0	Importance Factor
R_p :	2.0	Response Modification Factor
ρ :	1.0	
A_s :	1.0	Applification Factor - TIA-222-H Section 2.7.8.1
S_1 :	0.055	Spectral Acceleration at a Period of 1 Second

Seismic Design Force			TIA-H Sec 2.7.7.1.1
C_s :	0.108	kips/kip	TIA-H Sec 2.7.7.1.1
C_{s-min} :	0.030	kips/kip	



Antenna Loads are Calculated in Accordance with TIA-222-H

Azimuth is the absolute angle measured clockwise from RISA-3D global X-axis.

MFR	Model	Height (in)	Width (in)	Depth (in)	Wt. (lbs)	Azimuth*	Qty	Shape	Member Label	Distance from start node of the member		
										Location #1 (ft,%)	Location #2 (ft,%)	Location #3 (ft,%)
QUINTEL TECHNOLOGY	QD6616-7	72.00	22.00	9.60	130.00	0.00	1	Flat	MP-2	2.50	7.50	
CCI ANTENNAS	OPA65R-BU6D	71.20	21.00	7.80	63.50	0.00	1	Flat	MP-4	2.50	7.50	
ERICSSON	AIR 6419 B77G_CCI3	31.10	16.10	7.30	44.00	0.00	1	Flat	MP-3	2.00	4.00	
ERICSSON	AIR 6449 B77D_CCI2	30.39	15.87	8.07	81.60	0.00	1	Flat	MP-3	6.00	8.00	
ERICSSON	RRUS 4478 B14	16.50	13.40	7.70	59.90	90.00	1	Flat	MP-2	3.00		
ERICSSON	RRUS 32 B2	27.20	12.05	7.00	52.90	90.00	1	Flat	MP-2	3.00		
ERICSSON	RRUS 32 B66A	27.60	12.45	7.41	55.12	90.00	1	Flat	MP-2	5.00		
ERICSSON	2019 B29	16.50	13.50	4.90	43.10	90.00	1	Flat	MP-2	5.00		
ERICSSON	RRUS 4449 B5/B12	17.90	13.19	9.44	71.00	90.00	1	Flat	MP-4	5.00		
ERICSSON	RRUS-32 B30	29.90	13.30	9.50	77.00	90.00	1	Flat	MP-4	5.00		
RAYCAP	DC6-48-60-18-8F	22.25	11.00	11.00	18.90	0.00	1	Round	MP-2	1.00		
RAYCAP	DC6-48-60-18-8F	22.25	11.00	11.00	18.90	0.00	1	Round	MP-4	1.00		
RAYCAP	DC9-48-60-24-8C-EV_CCI2	31.40	10.24	10.24	18.50	0.00	1	Round	MP-3	1.00		
QUINTEL TECHNOLOGY	QD6616-7	72.00	22.00	9.60	130.00	130.00	1	Flat	MP-6	2.50	7.50	
CCI ANTENNAS	OPA65R-BU6D	71.20	21.00	7.80	63.50	130.00	1	Flat	MP-8	2.50	7.50	
ERICSSON	AIR 6419 B77G_CCI3	31.10	16.10	7.30	44.00	130.00	1	Flat	MP-7	2.00	4.00	
ERICSSON	AIR 6449 B77D_CCI2	30.39	15.87	8.07	81.60	130.00	1	Flat	MP-7	6.00	8.00	
ERICSSON	RRUS 32 B2	27.20	12.05	7.00	52.90	210.00	1	Flat	MP-6	3.00		
ERICSSON	RRUS 32 B30	27.20	12.05	7.00	52.90	210.00	1	Flat	MP-6	3.00		
ERICSSON	RRUS 32 B66	27.20	12.10	7.00	53.00	210.00	1	Flat	MP-6	5.00		
ERICSSON	2019 B29	16.50	13.50	4.90	43.10	210.00	1	Flat	MP-6	5.00		
ERICSSON	RRUS 4449 B5/B12	17.90	13.19	9.44	71.00	210.00	1	Flat	MP-8	5.00		
ERICSSON	RRUS-32 B30	29.90	13.30	9.50	77.00	210.00	1	Flat	MP-8	5.00		
QUINTEL TECHNOLOGY	QD6616-7	72.00	22.00	9.60	130.00	250.00	1	Flat	MP-10	2.50	7.50	
CCI ANTENNAS	OPA65R-BU6D	71.20	21.00	7.80	63.50	250.00	1	Flat	MP-12	2.50	7.50	
ERICSSON	AIR 6419 B77G_CCI3	31.10	16.10	7.30	44.00	250.00	1	Flat	MP-11	2.00	4.00	
ERICSSON	AIR 6449 B77D_CCI2	30.39	15.87	8.07	81.60	250.00	1	Flat	MP-11	6.00	8.00	
ERICSSON	RRUS 32 B2	27.20	12.05	7.00	52.90	330.00	1	Flat	MP-10	3.00		
ERICSSON	RRUS 32 B30	27.20	12.05	7.00	52.90	330.00	1	Flat	MP-10	3.00		
ERICSSON	RRUS 32 B66	27.20	12.10	7.00	53.00	330.00	1	Flat	MP-10	5.00		
ERICSSON	RRUS 4449 B5/B12	17.90	13.19	9.44	71.00	330.00	1	Flat	MP-10	5.00		
ERICSSON	RRUS 4478 B14	16.50	13.40	7.70	59.90	330.00	1	Flat	MP-12	5.00		
ERICSSON	RRUS-32 B30	29.90	13.30	9.50	77.00	330.00	1	Flat	MP-12	5.00		



Member Forces are Calculated in Accordance with TIA-222-H

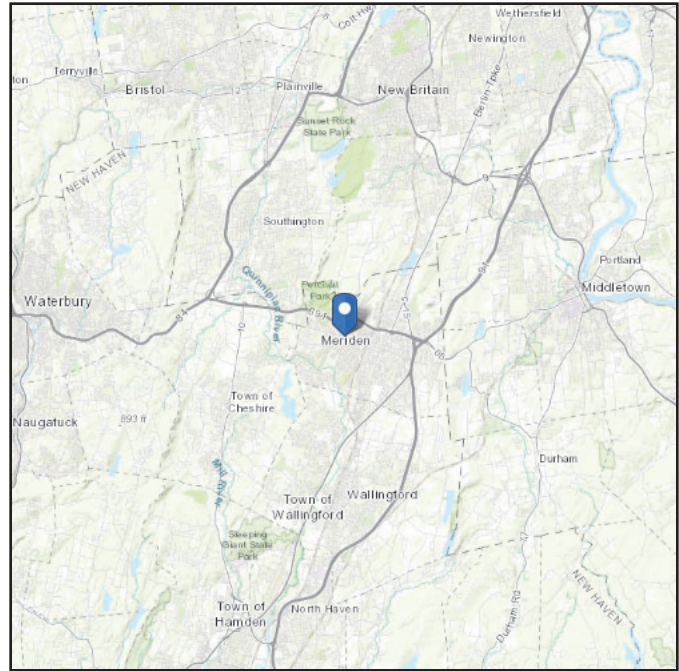
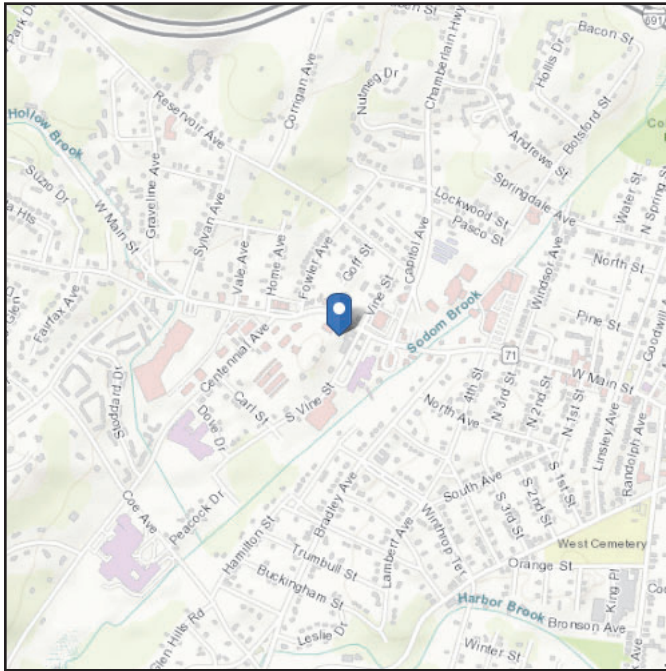
Member Name	Wind Proj. (in)	Length (in)	Shape	θ (°)	Perimeter (in)
FFTH-1	3.500	174.00	Round	90.00	11.00
FFTH-2	3.500	174.00	Round	-30.00	11.00
FFTH-3	3.500	174.00	Round	30.00	11.00
GSI-1A	3.500	53.56	Round	30.00	11.00
GSI-1B	3.500	24.94	Round	30.00	11.00
GSI-2A	3.500	53.56	Round	90.00	11.00
GSI-2B	3.500	24.94	Round	90.00	11.00
GSI-3A	3.500	53.56	Round	-30.00	11.00
GSI-3B	3.500	24.94	Round	-30.00	11.00
INT1	1.500	28.61	Flat	-89.99	6.00
INT2	1.500	28.61	Flat	-30.01	6.00
INT3	1.500	28.61	Flat	-29.99	6.00
INT4	1.500	28.61	Flat	29.99	6.00
INT5	1.500	28.61	Flat	30.01	6.00
INT6	1.500	28.61	Flat	89.99	6.00
MP-1	2.875	120.00	Round		9.03
MP-2	2.875	120.00	Round		9.03
MP-3	2.875	120.00	Round		9.03
MP-4	2.875	120.00	Round		9.03
MP-5	2.875	120.00	Round		9.03
MP-6	2.875	120.00	Round		9.03
MP-7	2.875	120.00	Round		9.03
MP-8	2.875	120.00	Round		9.03
MP-9	2.875	120.00	Round		9.03
MP-10	2.875	120.00	Round		9.03
MP-11	2.875	120.00	Round		9.03
MP-12	2.875	120.00	Round		9.03
SA-1	5.000	63.53	Flat	-60.00	16.00
SA-2	5.000	63.53	Flat	0.00	16.00
SA-3	5.000	63.53	Flat	60.00	16.00
SR-1	2.875	174.00	Round	90.00	9.03
SR-2	2.875	174.00	Round	-30.00	9.03
SR-3	2.875	174.00	Round	30.00	9.03
SRC-1	2.875	24.94	Round	30.00	9.03
SRC-2	2.875	24.94	Round	90.00	9.03
SRC-3	2.875	24.94	Round	-30.00	9.03

ASCE 7 Hazards Report

Address:
No Address at This Location

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

Elevation: 165.37 ft (NAVD 88)
Latitude: 41.540031
Longitude: -72.819019



Wind

Results:

Wind Speed	119 Vmph
10-year MRI	75 Vmph
25-year MRI	84 Vmph
50-year MRI	90 Vmph
100-year MRI	98 Vmph

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

Date Accessed: Thu Apr 14 2022

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

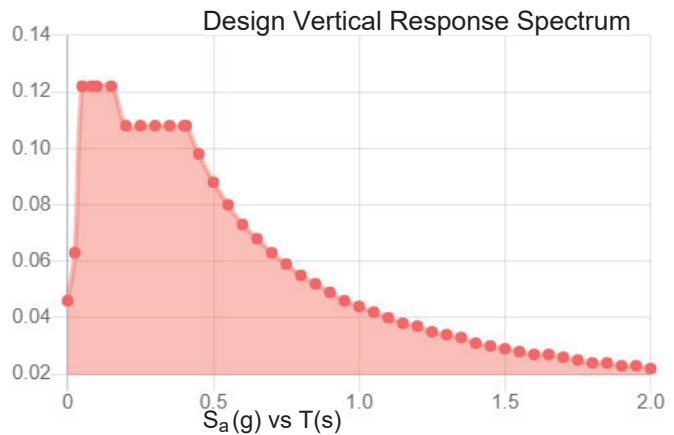
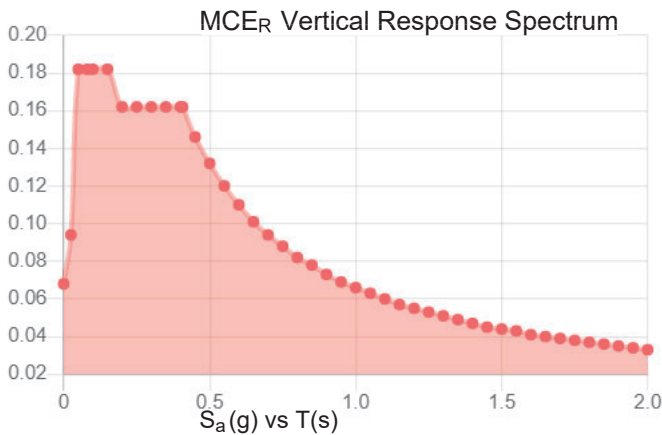
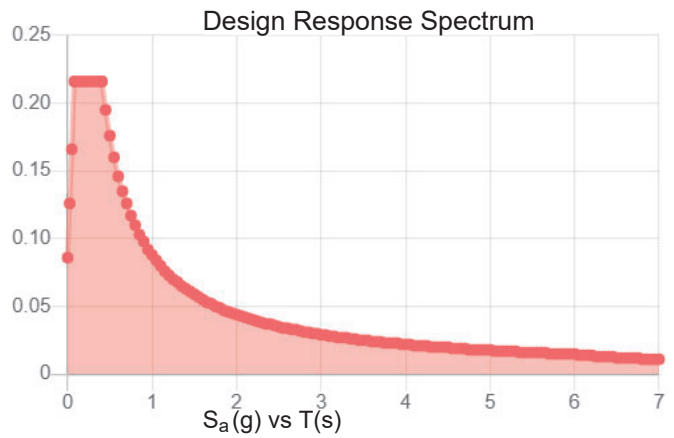
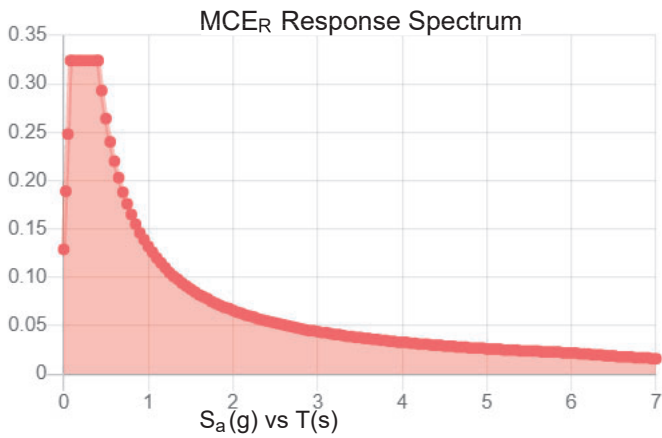
Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

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

Results:

S_s :	0.202	S_{D1} :	0.088
S_1 :	0.055	T_L :	6
F_a :	1.6	PGA :	0.112
F_v :	2.4	PGA _M :	0.177
S_{MS} :	0.324	F_{PGA} :	1.576
S_{M1} :	0.132	I_e :	1
S_{DS} :	0.216	C_v :	0.704

Seismic Design Category B



Data Accessed: Thu Apr 14 2022

Date Source:

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

Ice

Results:

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

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

Date Accessed: Thu Apr 14 2022

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

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

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

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

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

APPENDIX C
SOFTWARE ANALYSIS OUTPUT



Company : Tower Engineering Professionals
 Designer : GJS
 Job Number : TEP No. 217612.798269
 Model Name : CCI BU No. 842869

Dec 22, 2022
 2:07 PM
 Checked By: RAL

(Global) Model Settings

Display Sections for Member Calcs	5
Max Internal Sections for Member Calcs	97
Include Shear Deformation?	Yes
Increase Nailing Capacity for Wind?	Yes
Include Warping?	Yes
Trans Load Btwn Intersecting Wood Wall?	Yes
Area Load Mesh (in ²)	144
Merge Tolerance (in)	.12
P-Delta Analysis Tolerance	0.50%
Include P-Delta for Walls?	Yes
Automatically Iterate Stiffness for Walls?	Yes
Max Iterations for Wall Stiffness	3
Gravity Acceleration (ft/sec ²)	32.2
Wall Mesh Size (in)	12
Eigensolution Convergence Tol. (1.E-)	4
Vertical Axis	Y
Global Member Orientation Plane	XZ
Static Solver	Sparse Accelerated
Dynamic Solver	Accelerated Solver

Hot Rolled Steel Code	AISC 15th(360-16): LRFD
Adjust Stiffness?	No
RISAConnection Code	None
Cold Formed Steel Code	None
Wood Code	None
Wood Temperature	< 100F
Concrete Code	None
Masonry Code	None
Aluminum Code	None - Building
Stainless Steel Code	None

Number of Shear Regions	4
Region Spacing Increment (in)	4
Biaxial Column Method	Exact Integration
Parme Beta Factor (PCA)	.65
Concrete Stress Block	Rectangular
Use Cracked Sections?	Yes
Use Cracked Sections Slab?	No
Bad Framing Warnings?	No
Unused Force Warnings?	Yes
Min 1 Bar Diam. Spacing?	No
Concrete Rebar Set	REBAR_SET ASTM615
Min % Steel for Column	1
Max % Steel for Column	8



Company : Tower Engineering Professionals
 Designer : GJS
 Job Number : TEP No. 217612.798269
 Model Name : CCI BU No. 842869

Dec 22, 2022
 2:07 PM
 Checked By: RAL

(Global) Model Settings, Continued

Seismic Code	ASCE 7-16
Seismic Base Elevation (ft)	Not Entered
Add Base Weight?	Yes
Ct X	.02
Ct Z	.02
T X (sec)	Not Entered
T Z (sec)	Not Entered
R X	3
R Z	3
Ct Exp. X	.75
Ct Exp. Z	.75
SD1	1
SDS	1
S1	1
TL (sec)	5
Risk Cat	I or II
Drift Cat	Other
Om Z	1
Om X	1
Cd Z	4
Cd X	4
Rho Z	1
Rho X	1

Hot Rolled Steel Properties

Label	E [ksi]	G [ksi]	Nu	Therm (1... Density[k/f...	Yield[ksi]	Ry	Fu[ksi]	Rt
1 A36 Gr.36	29000	11154	.3	.65 .49	36	1.5	58	1.2
2 A53 Gr. B	29000	11154	.3	.65 .49	35	1.5	60	1.2
3 A572 Gr.50	29000	11154	.3	.65 .49	50	1.1	65	1.1
4 A992	29000	11154	.3	.65 .49	50	1.1	65	1.1
5 A500 Gr. B 42	29000	11154	.3	.65 .49	42	1.4	58	1.3
6 A500 Gr. B 46	29000	11154	.3	.65 .49	46	1.4	58	1.3
7 A500 Gr. C 50	29000	11154	.3	.65 .49	50	1.5	61.6	1.3
8 A500 GR. B RND	29000	11154	.3	.65 .49	42	1.4	58	1.3
9 A500 GR. B RECT	29000	11154	.3	.65 .49	46	1.4	58	1.3

Hot Rolled Steel Section Sets

Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iy [in4]	Izz [in4]	J [in4]
1 Cross Brace	PIPE 3.0	None	None	A500 Gr. C 50	Typical	2.07	2.85	2.85	5.69
2 Face Horizontal	PIPE 3.0	None	None	A500 GR. B ...	Typical	2.07	2.85	2.85	5.69
3 Grating Support	L1.5x1.5x4	None	None	A36 Gr.36	Typical	.688	.139	.139	.013
4 Mount Pipe	PIPE 2.5	None	None	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
5 Standoff Horizontal	HSS5X3X6	None	None	A500 GR. B ...	Typical	4.78	6.25	14.1	14.9
6 Toe Plate	PIPE 3.0	None	None	A500 Gr. C 50	Typical	2.07	2.85	2.85	5.69
7 Upper Rail Connector	PIPE 2.5	None	None	A500 Gr. C 50	Typical	1.61	1.45	1.45	2.89
8 Upper Rail	PIPE 2.5	None	None	A500 GR. B ...	Typical	1.61	1.45	1.45	2.89
9 Extension Beam	W10X49	None	None	A992	Typical	14.4	93.4	272	1.39



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Cold Formed Steel Section Sets

Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iy [in4]	Izz [in4]	J [in4]	
1	CF1A	1.5CU.1.25X035	Beam	None	A570 Gr.33	Typical	.131	.022	.052	5.4e-5

Material Takeoff

	Material	Size	Pieces	Length(ft)	Weight(K)
1	General				
2	RIGID		24	7	0
3	Total General		24	7	0
4					
5	Hot Rolled Steel				
6	A36 Gr.36	L1.5x1.5x4	6	14.3	.033
7	A500 GR. B RND	HSS5X3X6	3	15.9	.258
8	A500 GR. B RND	PIPE 2.5	3	43.5	.238
9	A500 GR. B RND	PIPE 3.0	3	43.5	.306
10	A500 Gr. C 50	PIPE 2.5	3	6.2	.034
11	A500 Gr. C 50	PIPE 3.0	6	19.6	.138
12	A53 Gr. B	PIPE 2.5	12	120	.657
13	Total HR Steel		36	263	1.666

Joint Boundary Conditions

Joint Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot [k-ft/rad]	Y Rot [k-ft/rad]	Z Rot [k-ft/rad]
1	N124	Reaction	Reaction	Reaction	Reaction	Reaction
2	N114A	Reaction	Reaction	Reaction	Reaction	Reaction
3	N126	Reaction	Reaction	Reaction	Reaction	Reaction

Member Primary Data

Label	I Joint	J Joint	K Joint	Rotatel...	Section/Shape	Type	Design List	Material	Design R...
1	FFTH-1	N203	N204		Face Horizontal	None	None	A500 G...	Typical
2	FFTH-2	N223	N224		Face Horizontal	None	None	A500 G...	Typical
3	FFTH-3	N219	N220		Face Horizontal	None	None	A500 G...	Typical
4	GSI-1A	N120A	N121A		Cross Brace	None	None	A500 Gr.	Typical
5	GSI-1B	N117A	N118A		Toe Plate	None	None	A500 Gr.	Typical
6	GSI-2A	N175	N176		Cross Brace	None	None	A500 Gr.	Typical
7	GSI-2B	N172	N173		Toe Plate	None	None	A500 Gr.	Typical
8	GSI-3A	N108A	N109A		Cross Brace	None	None	A500 Gr.	Typical
9	GSI-3B	N105A	N106A		Toe Plate	None	None	A500 Gr.	Typical
10	INT1	N122A	N123A	270	Grating Support	None	None	A36 Gr.	Typical
11	INT2	N124A	N125		Grating Support	None	None	A36 Gr.	Typical
12	INT3	N177	N178	270	Grating Support	None	None	A36 Gr.	Typical
13	INT4	N179	N180		Grating Support	None	None	A36 Gr.	Typical
14	INT5	N110A	N111A	270	Grating Support	None	None	A36 Gr.	Typical
15	INT6	N112A	N113A		Grating Support	None	None	A36 Gr.	Typical
16	M29	N72	N65		RIGID	None	None	RIGID	Typical
17	M30	N68B	N61A		RIGID	None	None	RIGID	Typical
18	M31	N73	N66		RIGID	None	None	RIGID	Typical
19	M32	N69	N62		RIGID	None	None	RIGID	Typical
20	M33	N74A	N67A		RIGID	None	None	RIGID	Typical



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Member Primary Data (Continued)

Label	I Joint	J Joint	K Joint	Rotatel...	Section/Shape	Type	Design List	Material	Design R...
21	M34	N70	N63		RIGID	None	None	RIGID	Typical
22	M35	N75A	N68A		RIGID	None	None	RIGID	Typical
23	M36	N71	N64		RIGID	None	None	RIGID	Typical
24	M41	N96	N88		RIGID	None	None	RIGID	Typical
25	M42	N92	N84		RIGID	None	None	RIGID	Typical
26	M43	N97	N89		RIGID	None	None	RIGID	Typical
27	M44	N93	N85		RIGID	None	None	RIGID	Typical
28	M45	N98	N90		RIGID	None	None	RIGID	Typical
29	M46	N94	N86		RIGID	None	None	RIGID	Typical
30	M47	N99	N91		RIGID	None	None	RIGID	Typical
31	M48	N95	N87		RIGID	None	None	RIGID	Typical
32	M53	N120	N112		RIGID	None	None	RIGID	Typical
33	M54	N116	N108		RIGID	None	None	RIGID	Typical
34	M55	N121	N113		RIGID	None	None	RIGID	Typical
35	M56	N117	N109		RIGID	None	None	RIGID	Typical
36	M57	N122	N114		RIGID	None	None	RIGID	Typical
37	M58	N118	N110		RIGID	None	None	RIGID	Typical
38	M59	N123	N115		RIGID	None	None	RIGID	Typical
39	M60	N119	N111		RIGID	None	None	RIGID	Typical
40	MP-1	N214	N213		Mount Pipe	None	None	A53 Gr. B	Typical
41	MP-2	N61	N60		Mount Pipe	None	None	A53 Gr. B	Typical
42	MP-3	N68	N67		Mount Pipe	None	None	A53 Gr. B	Typical
43	MP-4	N75	N74		Mount Pipe	None	None	A53 Gr. B	Typical
44	MP-5	N77	N76		Mount Pipe	None	None	A53 Gr. B	Typical
45	MP-6	N79	N78		Mount Pipe	None	None	A53 Gr. B	Typical
46	MP-7	N81	N80		Mount Pipe	None	None	A53 Gr. B	Typical
47	MP-8	N83	N82		Mount Pipe	None	None	A53 Gr. B	Typical
48	MP-9	N101	N100		Mount Pipe	None	None	A53 Gr. B	Typical
49	MP-10	N103	N102		Mount Pipe	None	None	A53 Gr. B	Typical
50	MP-11	N105	N104		Mount Pipe	None	None	A53 Gr. B	Typical
51	MP-12	N107	N106		Mount Pipe	None	None	A53 Gr. B	Typical
52	SA-1	N126	N115A		Standoff Horizontal	None	None	A500 G...	Typical
53	SA-2	N124	N170		Standoff Horizontal	None	None	A500 G...	Typical
54	SA-3	N114A	N103A		Standoff Horizontal	None	None	A500 G...	Typical
55	SR-1	N205	N206		Upper Rail	None	None	A500 G...	Typical
56	SR-2	N225	N226		Upper Rail	None	None	A500 G...	Typical
57	SR-3	N221	N222		Upper Rail	None	None	A500 G...	Typical
58	SRC-1	N229	N230		Upper Rail Connector	None	None	A500 Gr.	Typical
59	SRC-2	N227	N228		Upper Rail Connector	None	None	A500 Gr.	Typical
60	SRC-3	N231	N232		Upper Rail Connector	None	None	A500 Gr.	Typical

Member Advanced Data

Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical Defl R...	Analysis...	Inactive	Seismic Desi...
1	FFTH-1					Yes	** NA **		None
2	FFTH-2					Yes	** NA **		None
3	FFTH-3					Yes	** NA **		None
4	GSI-1A	00000X	00000X			Yes	** NA **		None
5	GSI-1B	00000X	00000X			Yes	** NA **		None
6	GSI-2A	00000X	00000X			Yes	** NA **		None
7	GSI-2B	00000X	00000X			Yes	** NA **		None



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Member Advanced Data (Continued)

Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical Defl R...	Analysis...	Inactive	Seismic Desi...
8	GSI-3A	00000X	00000X			Yes	** NA **		None
9	GSI-3B	00000X	00000X			Yes	** NA **		None
10	INT1	BenPIN	BenPIN			Yes	** NA **		None
11	INT2	BenPIN	BenPIN			Yes	** NA **		None
12	INT3	BenPIN	BenPIN			Yes	** NA **		None
13	INT4	BenPIN	BenPIN			Yes	** NA **		None
14	INT5	BenPIN	BenPIN			Yes	** NA **		None
15	INT6	BenPIN	BenPIN			Yes	** NA **		None
16	M29					Yes	** NA **		None
17	M30	000000				Yes	** NA **		None
18	M31					Yes	** NA **		None
19	M32	000000				Yes	** NA **		None
20	M33					Yes	** NA **		None
21	M34	000000				Yes	** NA **		None
22	M35					Yes	** NA **		None
23	M36	000000				Yes	** NA **		None
24	M41					Yes	** NA **		None
25	M42	000000				Yes	** NA **		None
26	M43					Yes	** NA **		None
27	M44	000000				Yes	** NA **		None
28	M45					Yes	** NA **		None
29	M46	000000				Yes	** NA **		None
30	M47					Yes	** NA **		None
31	M48	000000				Yes	** NA **		None
32	M53					Yes	** NA **		None
33	M54	000000				Yes	** NA **		None
34	M55					Yes	** NA **		None
35	M56	000000				Yes	** NA **		None
36	M57					Yes	** NA **		None
37	M58	000000				Yes	** NA **		None
38	M59					Yes	** NA **		None
39	M60	000000				Yes	** NA **		None
40	MP-1					Yes	** NA **		None
41	MP-2					Yes	** NA **		None
42	MP-3					Yes	** NA **		None
43	MP-4					Yes	** NA **		None
44	MP-5					Yes	** NA **		None
45	MP-6					Yes	** NA **		None
46	MP-7					Yes	** NA **		None
47	MP-8					Yes	** NA **		None
48	MP-9					Yes	** NA **		None
49	MP-10					Yes	** NA **		None
50	MP-11					Yes	** NA **		None
51	MP-12					Yes	** NA **		None
52	SA-1					Yes	** NA **		None
53	SA-2					Yes	** NA **		None
54	SA-3					Yes	** NA **		None
55	SR-1					Yes	** NA **		None
56	SR-2					Yes	** NA **		None
57	SR-3					Yes	** NA **		None
58	SRC-1	00000X	00000X			Yes	** NA **		None
59	SRC-2	00000X	00000X			Yes	** NA **		None



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Member Advanced Data (Continued)

Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical Defl R...	Analysis...	Inactive	Seismic Desi...
60	SRC-3	00000X	00000X			Yes	** NA **		None

Hot Rolled Steel Design Parameters

Label	Shape	Length...	Lbvy(ft)	Lbzz(ft)	Lcomp top...	Lcomp bot...	L-torq...	Kyy	Kzz	Cb	Funct...
1	FFTH-1	Face Horizontal	14.5	5.46				2.1	2.1		Lateral
2	FFTH-2	Face Horizontal	14.5	5.46				2.1	2.1		Lateral
3	FFTH-3	Face Horizontal	14.5	5.46				2.1	2.1		Lateral
4	GSI-1A	Cross Brace	4.463	2.07				1	1		Lateral
5	GSI-1B	Toe Plate	2.078	.896				1	1		Lateral
6	GSI-2A	Cross Brace	4.463	2.07				1	1		Lateral
7	GSI-2B	Toe Plate	2.078	.896				1	1		Lateral
8	GSI-3A	Cross Brace	4.463	2.07				1	1		Lateral
9	GSI-3B	Toe Plate	2.078	.896				1	1		Lateral
10	INT1	Grating Support	2.384					1	1		Lateral
11	INT2	Grating Support	2.384					1	1		Lateral
12	INT3	Grating Support	2.384					1	1		Lateral
13	INT4	Grating Support	2.384					1	1		Lateral
14	INT5	Grating Support	2.384					1	1		Lateral
15	INT6	Grating Support	2.384					1	1		Lateral
16	MP-1	Mount Pipe	10		Segment	Segment		2.1	2.1		Lateral
17	MP-2	Mount Pipe	10		Segment	Segment		2.1	2.1		Lateral
18	MP-3	Mount Pipe	10		Segment	Segment		2.1	2.1		Lateral
19	MP-4	Mount Pipe	10		Segment	Segment		2.1	2.1		Lateral
20	MP-5	Mount Pipe	10		Segment	Segment		2.1	2.1		Lateral
21	MP-6	Mount Pipe	10		Segment	Segment		2.1	2.1		Lateral
22	MP-7	Mount Pipe	10		Segment	Segment		2.1	2.1		Lateral
23	MP-8	Mount Pipe	10		Segment	Segment		2.1	2.1		Lateral
24	MP-9	Mount Pipe	10		Segment	Segment		2.1	2.1		Lateral
25	MP-10	Mount Pipe	10		Segment	Segment		2.1	2.1		Lateral
26	MP-11	Mount Pipe	10		Segment	Segment		2.1	2.1		Lateral
27	MP-12	Mount Pipe	10		Segment	Segment		2.1	2.1		Lateral
28	SA-1	Standoff Horizontal	5.294	3.23				2.1	2.1		Lateral
29	SA-2	Standoff Horizontal	5.294	3.23				2.1	2.1		Lateral
30	SA-3	Standoff Horizontal	5.294	3.23				2.1	2.1		Lateral
31	SR-1	Upper Rail	14.5					2.1	2.1		Lateral
32	SR-2	Upper Rail	14.5					2.1	2.1		Lateral
33	SR-3	Upper Rail	14.5					2.1	2.1		Lateral
34	SRC-1	Upper Rail Conn...	2.078					1	1		Lateral
35	SRC-2	Upper Rail Conn...	2.078					1	1		Lateral
36	SRC-3	Upper Rail Conn...	2.078					1	1		Lateral

Cold Formed Steel Design Parameters

Label	Shape	Lenot...	Lbvy(ft)	Lbzz(ft)	Lcomp to...	Lcomp b...	Kyy	Kzz	Cm-vy	Cm-zz	Cb	R	y sway	z sway
No Data to Print ...														



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Basic Load Cases

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Member)	Surface...
1 Dead	None		-1			45		3	
2 0 Wind - No Ice	None					45	36		
3 30 Wind - No Ice	None					90	72		
4 45 Wind - No Ice	None					90	72		
5 60 Wind - No Ice	None					90	72		
6 90 Wind - No Ice	None					45	36		
7 120 Wind - No Ice	None					90	72		
8 135 Wind - No Ice	None					90	72		
9 150 Wind - No Ice	None					90	72		
10 180 Wind - No Ice	None					45	36		
11 210 Wind - No Ice	None					90	72		
12 225 Wind - No Ice	None					90	72		
13 240 Wind - No Ice	None					90	72		
14 270 Wind - No Ice	None					45	36		
15 300 Wind - No Ice	None					90	72		
16 315 Wind - No Ice	None					90	72		
17 330 Wind - No Ice	None					90	72		
18 Ice Weight	None					45	36	3	
19 0 Wind - Ice	None					45	36		
20 30 Wind - Ice	None					90	72		
21 45 Wind - Ice	None					90	72		
22 60 Wind - Ice	None					90	72		
23 90 Wind - Ice	None					45	36		
24 120 Wind - Ice	None					90	72		
25 135 Wind - Ice	None					90	72		
26 150 Wind - Ice	None					90	72		
27 180 Wind - Ice	None					45	36		
28 210 Wind - Ice	None					90	72		
29 225 Wind - Ice	None					90	72		
30 240 Wind - Ice	None					90	72		
31 270 Wind - Ice	None					45	36		
32 300 Wind - Ice	None					90	72		
33 315 Wind - Ice	None					90	72		
34 330 Wind - Ice	None					90	72		
35 Lm	None				1				
36 Lv	None				1				
37 Seismic Load X	ELX	-1				45			
38 Seismic Load Z	ELZ			-1		45			
39 BLC 1 Transient Ar...	None						102		
40 BLC 18 Transient Ar...	None						102		

Load Combinations

Description	So.	P.	S.	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.
1 1.4D	Yes	Y		1	1.4							
2 0.9D+1.0 0-Wind	Yes	Y		1	9	2	1					
3 0.9D+1.0 30-Wind	Yes	Y		1	9	3	1					
4 0.9D+1.0 45-Wind	Yes	Y		1	9	4	1					
5 0.9D+1.0 60-Wind	Yes	Y		1	9	5	1					
6 0.9D+1.0 90-Wind	Yes	Y		1	9	6	1					



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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.
7 0.9D+1.0 120-Wind	Yes	Y		1	9	7	1					
8 0.9D+1.0 135-Wind	Yes	Y		1	9	8	1					
9 0.9D+1.0 150-Wind	Yes	Y		1	9	9	1					
10 0.9D+1.0 180-Wind	Yes	Y		1	9	10	1					
11 0.9D+1.0 210-Wind	Yes	Y		1	9	11	1					
12 0.9D+1.0 225-Wind	Yes	Y		1	9	12	1					
13 0.9D+1.0 240-Wind	Yes	Y		1	9	13	1					
14 0.9D+1.0 270-Wind	Yes	Y		1	9	14	1					
15 0.9D+1.0 300-Wind	Yes	Y		1	9	15	1					
16 0.9D+1.0 315-Wind	Yes	Y		1	9	16	1					
17 0.9D+1.0 330-Wind	Yes	Y		1	9	17	1					
18 1.2D+1.0 0-Wind	Yes	Y		1	1.2	2	1					
19 1.2D+1.0 30-Wind	Yes	Y		1	1.2	3	1					
20 1.2D+1.0 45-Wind	Yes	Y		1	1.2	4	1					
21 1.2D+1.0 60-Wind	Yes	Y		1	1.2	5	1					
22 1.2D+1.0 90-Wind	Yes	Y		1	1.2	6	1					
23 1.2D+1.0 120-Wind	Yes	Y		1	1.2	7	1					
24 1.2D+1.0 135-Wind	Yes	Y		1	1.2	8	1					
25 1.2D+1.0 150-Wind	Yes	Y		1	1.2	9	1					
26 1.2D+1.0 180-Wind	Yes	Y		1	1.2	10	1					
27 1.2D+1.0 210-Wind	Yes	Y		1	1.2	11	1					
28 1.2D+1.0 225-Wind	Yes	Y		1	1.2	12	1					
29 1.2D+1.0 240-Wind	Yes	Y		1	1.2	13	1					
30 1.2D+1.0 270-Wind	Yes	Y		1	1.2	14	1					
31 1.2D+1.0 300-Wind	Yes	Y		1	1.2	15	1					
32 1.2D+1.0 315-Wind	Yes	Y		1	1.2	16	1					
33 1.2D+1.0 330-Wind	Yes	Y		1	1.2	17	1					
34 1.2D+1.0D+1.0 0-...	Yes	Y		1	1.2	18	1	19	1			
35 1.2D+1.0D+1.0 30-...	Yes	Y		1	1.2	18	1	20	1			
36 1.2D+1.0D+1.0 45-...	Yes	Y		1	1.2	18	1	21	1			
37 1.2D+1.0D+1.0 60-...	Yes	Y		1	1.2	18	1	22	1			
38 1.2D+1.0D+1.0 90-...	Yes	Y		1	1.2	18	1	23	1			
39 1.2D+1.0D+1.0 120-...	Yes	Y		1	1.2	18	1	24	1			
40 1.2D+1.0D+1.0 135-...	Yes	Y		1	1.2	18	1	25	1			
41 1.2D+1.0D+1.0 150-...	Yes	Y		1	1.2	18	1	26	1			
42 1.2D+1.0D+1.0 180-...	Yes	Y		1	1.2	18	1	27	1			
43 1.2D+1.0D+1.0 210-...	Yes	Y		1	1.2	18	1	28	1			
44 1.2D+1.0D+1.0 225-...	Yes	Y		1	1.2	18	1	29	1			
45 1.2D+1.0D+1.0 240-...	Yes	Y		1	1.2	18	1	30	1			
46 1.2D+1.0D+1.0 270-...	Yes	Y		1	1.2	18	1	31	1			
47 1.2D+1.0D+1.0 300-...	Yes	Y		1	1.2	18	1	32	1			
48 1.2D+1.0D+1.0 315-...	Yes	Y		1	1.2	18	1	33	1			
49 1.2D+1.0D+1.0 330-...	Yes	Y		1	1.2	18	1	34	1			
50 1.2D+1.5Lv	Yes	Y		36	1.5	1	1.2					
51 1.2D+1.5Lm+1.0 0-...	Yes	Y		1	1.2	3	0.64	35	1.5			
52 1.2D+1.5Lm+1.0 30-...	Yes	Y		1	1.2	3	0.64	35	1.5			
53 1.2D+1.5Lm+1.0 45-...	Yes	Y		1	1.2	4	0.64	35	1.5			
54 1.2D+1.5Lm+1.0 60-...	Yes	Y		1	1.2	5	0.64	35	1.5			
55 1.2D+1.5Lm+1.0 90-...	Yes	Y		1	1.2	6	0.64	35	1.5			
56 1.2D+1.5Lm+1.0 12-...	Yes	Y		1	1.2	7	0.64	35	1.5			
57 1.2D+1.5Lm+1.0 13-...	Yes	Y		1	1.2	8	0.64	35	1.5			
58 1.2D+1.5Lm+1.0 15-...	Yes	Y		1	1.2	9	0.64	35	1.5			

Load Combinations (Continued)

Description	So.	P.	S...	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.
59	1.2D+1.5Lm+1.0.18...	Yes	Y	1	1.2	10	0.64	35	1.5				
60	1.2D+1.5Lm+1.0.21...	Yes	Y	1	1.2	11	0.64	35	1.5				
61	1.2D+1.5Lm+1.0.22...	Yes	Y	1	1.2	12	0.64	35	1.5				
62	1.2D+1.5Lm+1.0.24...	Yes	Y	1	1.2	13	0.64	35	1.5				
63	1.2D+1.5Lm+1.0.27...	Yes	Y	1	1.2	14	0.64	35	1.5				
64	1.2D+1.5Lm+1.0.30...	Yes	Y	1	1.2	15	0.64	35	1.5				
65	1.2D+1.5Lm+1.0.31...	Yes	Y	1	1.2	16	0.64	35	1.5				
66	1.2D+1.5Lm+1.0.33...	Yes	Y	1	1.2	17	0.64	35	1.5				
67	(1.2+0.2Sds)D+1.0...	Yes	Y	1	243	ELX	108	0					
68	(1.2+0.2Sds)D+1.0...	Yes	Y	1	243	ELX	094	ELZ	054				
69	(1.2+0.2Sds)D+1.0...	Yes	Y	1	243	ELX	076	ELZ	076				
70	(1.2+0.2Sds)D+1.0...	Yes	Y	1	243	ELX	054	ELZ	094				
71	(1.2+0.2Sds)D+1.0...	Yes	Y	1	243	0		ELZ	108				
72	(1.2+0.2Sds)D+1.0...	Yes	Y	1	243	ELX	-054	ELZ	094				
73	(1.2+0.2Sds)D+1.0...	Yes	Y	1	243	ELX	-076	ELZ	076				
74	(1.2+0.2Sds)D+1.0...	Yes	Y	1	243	ELX	-094	ELZ	054				
75	(1.2+0.2Sds)D+1.0...	Yes	Y	1	243	ELX	-108	0					
76	(1.2+0.2Sds)D+1.0...	Yes	Y	1	243	ELX	-094	ELZ	-054				
77	(1.2+0.2Sds)D+1.0...	Yes	Y	1	243	ELX	-076	ELZ	-076				
78	(1.2+0.2Sds)D+1.0...	Yes	Y	1	243	ELX	-054	ELZ	-094				
79	(1.2+0.2Sds)D+1.0...	Yes	Y	1	243	0		ELZ	-108				
80	(1.2+0.2Sds)D+1.0...	Yes	Y	1	243	ELX	054	ELZ	-094				
81	(1.2+0.2Sds)D+1.0...	Yes	Y	1	243	ELX	076	ELZ	-076				
82	(1.2+0.2Sds)D+1.0...	Yes	Y	1	243	ELX	094	ELZ	-054				
83	(0.9-0.2Sds)*DL+1...	Yes	Y	1	857	ELX	108	0					
84	(0.9-0.2Sds)*DL+1...	Yes	Y	1	857	ELX	094	ELZ	054				
85	(0.9-0.2Sds)*DL+1...	Yes	Y	1	857	ELX	076	ELZ	076				
86	(0.9-0.2Sds)*DL+1...	Yes	Y	1	857	ELX	054	ELZ	094				
87	(0.9-0.2Sds)*DL+1...	Yes	Y	1	857	0		ELZ	108				
88	(0.9-0.2Sds)*DL+1...	Yes	Y	1	857	ELX	-054	ELZ	094				
89	(0.9-0.2Sds)*DL+1...	Yes	Y	1	857	ELX	-076	ELZ	076				
90	(0.9-0.2Sds)*DL+1...	Yes	Y	1	857	ELX	-094	ELZ	054				
91	(0.9-0.2Sds)*DL+1...	Yes	Y	1	857	ELX	-108	0					
92	(0.9-0.2Sds)*DL+1...	Yes	Y	1	857	ELX	-094	ELZ	-054				
93	(0.9-0.2Sds)*DL+1...	Yes	Y	1	857	ELX	-076	ELZ	-076				
94	(0.9-0.2Sds)*DL+1...	Yes	Y	1	857	ELX	-054	ELZ	-094				
95	(0.9-0.2Sds)*DL+1...	Yes	Y	1	857	0		ELZ	-108				
96	(0.9-0.2Sds)*DL+1...	Yes	Y	1	857	ELX	054	ELZ	-094				
97	(0.9-0.2Sds)*DL+1...	Yes	Y	1	857	ELX	076	ELZ	-076				
98	(0.9-0.2Sds)*DL+1...	Yes	Y	1	857	ELX	094	ELZ	-054				

Joint Loads and Enforced Displacements (BLC 35 : Lm)

Joint Label	L,D,M	Direction	Magnitude((k,k-ft), (in,rad), (k's^2/ft,	
1	N68B	L	Y	-5

Joint Loads and Enforced Displacements (BLC 36 : Lv)

Joint Label	L,D,M	Direction	Magnitude((k,k-ft), (m,rad), (k's^2/ft,	
1	N204	L	Y	-25

Member Point Loads (BLC 1 : Dead)

Member Label	Direction	Magnitude(k,k-ft)	Location(ft,%)	
1	MP-2	Y	-065	2.5
2	MP-4	Y	-032	2.5
3	MP-3	Y	-022	2
4	MP-3	Y	-041	6
5	MP-2	Y	-06	3
6	MP-2	Y	-053	3
7	MP-2	Y	-055	5
8	MP-2	Y	-043	5
9	MP-4	Y	-071	5
10	MP-4	Y	-077	5
11	MP-2	Y	-019	1
12	MP-4	Y	-019	1
13	MP-3	Y	-018	1
14	MP-6	Y	-065	2.5
15	MP-8	Y	-032	2.5
16	MP-7	Y	-022	2
17	MP-7	Y	-041	6
18	MP-6	Y	-053	3
19	MP-6	Y	-053	3
20	MP-6	Y	-053	5
21	MP-6	Y	-043	5
22	MP-8	Y	-071	5
23	MP-8	Y	-077	5
24	MP-10	Y	-065	2.5
25	MP-12	Y	-032	2.5
26	MP-11	Y	-022	2
27	MP-11	Y	-041	6
28	MP-10	Y	-053	3
29	MP-10	Y	-053	3
30	MP-10	Y	-053	5
31	MP-10	Y	-071	5
32	MP-12	Y	-06	5
33	MP-12	Y	-077	5
34	MP-2	Y	-065	7.5
35	MP-4	Y	-032	7.5
36	MP-3	Y	-022	4
37	MP-3	Y	-041	8
38	MP-6	Y	-065	7.5
39	MP-8	Y	-032	7.5
40	MP-7	Y	-022	4
41	MP-7	Y	-041	8
42	MP-10	Y	-065	7.5
43	MP-12	Y	-032	7.5
44	MP-11	Y	-022	4
45	MP-11	Y	-041	8

Member Point Loads (BLC 2 : 0 Wind - No Ice)

Member Label	Direction	Magnitude(k,k-ft)	Location(ft,%)	
1	MP-2	X	-206	2.5
2	MP-4	X	-186	2.5



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Member Point Loads (BLC 2 : 0 Wind - No Ice) (Continued)

Member Label	Direction	Magnitude(k.k-ft)	Location(ft.%)	
3	MP-3	X	-0.058	2
4	MP-3	X	-0.061	6
5	MP-2	X	-0.032	3
6	MP-2	X	-0.051	3
7	MP-2	X	-0.054	5
8	MP-2	X	-0.021	5
9	MP-4	X	-0.043	5
10	MP-4	X	-0.074	5
11	MP-2	X	-0.026	1
12	MP-4	X	-0.026	1
13	MP-3	X	-0.035	1
14	MP-6	X	-0.138	2.5
15	MP-8	X	-0.117	2.5
16	MP-7	X	-0.038	2
17	MP-7	X	-0.044	6
18	MP-6	X	-0.075	3
19	MP-6	X	-0.075	3
20	MP-6	X	-0.075	3
21	MP-6	X	-0.048	5
22	MP-8	X	-0.055	5
23	MP-8	X	-0.094	5
24	MP-10	X	-0.103	2.5
25	MP-12	X	-0.083	2
26	MP-11	X	-0.027	2
27	MP-11	X	-0.036	6
28	MP-10	X	-0.075	3
29	MP-10	X	-0.075	3
30	MP-10	X	-0.075	5
31	MP-10	X	-0.055	5
32	MP-12	X	-0.05	5
33	MP-12	X	-0.094	5
34	MP-2	X	-0.206	7.5
35	MP-4	X	-0.186	7.5
36	MP-3	X	-0.058	4
37	MP-3	X	-0.061	8
38	MP-6	X	-0.138	7.5
39	MP-8	X	-0.117	7.5
40	MP-7	X	-0.038	4
41	MP-7	X	-0.044	8
42	MP-10	X	-0.103	7.5
43	MP-12	X	-0.083	7.5
44	MP-11	X	-0.027	4
45	MP-11	X	-0.036	8

Member Point Loads (BLC 3 : 30 Wind - No Ice)

Member Label	Direction	Magnitude(k.k-ft)	Location(ft.%)	
1	MP-2	X	-0.153	2.5
2	MP-4	X	-0.135	2.5
3	MP-3	X	-0.043	2
4	MP-3	X	-0.047	6
5	MP-2	X	-0.033	3



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Member Point Loads (BLC 3 : 30 Wind - No Ice) (Continued)

Member Label	Direction	Magnitude(k.k-ft)	Location(ft.%)	
6	MP-2	X	-0.051	3
7	MP-2	X	-0.054	5
8	MP-2	X	-0.026	5
9	MP-4	X	-0.041	5
10	MP-4	X	-0.07	5
11	MP-2	X	-0.022	1
12	MP-4	X	-0.022	1
13	MP-3	X	-0.03	1
14	MP-6	X	-0.081	2.5
15	MP-8	X	-0.063	2.5
16	MP-7	X	-0.021	2
17	MP-7	X	-0.029	6
18	MP-6	X	-0.072	3
19	MP-6	X	-0.072	3
20	MP-6	X	-0.072	5
21	MP-6	X	-0.049	5
22	MP-8	X	-0.052	5
23	MP-8	X	-0.087	5
24	MP-10	X	-0.137	2.5
25	MP-12	X	-0.119	2.5
26	MP-11	X	-0.038	2
27	MP-11	X	-0.043	6
28	MP-10	X	-0.051	3
29	MP-10	X	-0.051	3
30	MP-10	X	-0.051	5
31	MP-10	X	-0.041	5
32	MP-12	X	-0.033	5
33	MP-12	X	-0.07	5
34	MP-2	X	-0.153	7.5
35	MP-4	X	-0.135	7.5
36	MP-3	X	-0.043	4
37	MP-3	X	-0.047	8
38	MP-6	X	-0.081	7.5
39	MP-8	X	-0.063	7.5
40	MP-7	X	-0.021	4
41	MP-7	X	-0.029	8
42	MP-10	X	-0.137	7.5
43	MP-12	X	-0.119	7.5
44	MP-11	X	-0.038	4
45	MP-11	X	-0.043	8
46	MP-2	Z	-0.089	2.5
47	MP-4	Z	-0.078	2.5
48	MP-3	Z	-0.025	2
49	MP-3	Z	-0.027	6
50	MP-2	Z	-0.019	3
51	MP-2	Z	-0.029	3
52	MP-2	Z	-0.031	5
53	MP-2	Z	-0.015	5
54	MP-4	Z	-0.023	5
55	MP-4	Z	-0.04	5
56	MP-2	Z	-0.013	1
57	MP-4	Z	-0.013	1



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Member Point Loads (BLC 3 : 30 Wind - No Ice) (Continued)

Member Label	Direction	Magnitude(k.k-ft)	Location(ft.%)	
58	MP-3	Z	-0.17	1
59	MP-6	Z	-0.47	2.5
60	MP-8	Z	-0.36	2.5
61	MP-7	Z	-0.12	2
62	MP-7	Z	-0.17	6
63	MP-6	Z	-0.41	3
64	MP-6	Z	-0.41	3
65	MP-6	Z	-0.42	5
66	MP-6	Z	-0.28	5
67	MP-8	Z	-0.3	5
68	MP-8	Z	-0.5	5
69	MP-10	Z	-0.79	2.5
70	MP-12	Z	-0.69	2.5
71	MP-11	Z	-0.22	2
72	MP-11	Z	-0.25	6
73	MP-10	Z	-0.29	3
74	MP-10	Z	-0.29	3
75	MP-10	Z	-0.29	5
76	MP-10	Z	-0.23	5
77	MP-12	Z	-0.19	5
78	MP-12	Z	-0.4	5
79	MP-2	Z	-0.89	7.5
80	MP-4	Z	-0.78	7.5
81	MP-3	Z	-0.25	4
82	MP-3	Z	-0.27	8
83	MP-6	Z	-0.47	7.5
84	MP-8	Z	-0.36	7.5
85	MP-7	Z	-0.12	4
86	MP-7	Z	-0.17	8
87	MP-10	Z	-0.79	7.5
88	MP-12	Z	-0.69	7.5
89	MP-11	Z	-0.22	4
90	MP-11	Z	-0.25	8

Member Point Loads (BLC 4 : 45 Wind - No Ice)

Member Label	Direction	Magnitude(k.k-ft)	Location(ft.%)	
1	MP-2	X	-1.05	2.5
2	MP-4	X	-0.9	2.5
3	MP-3	X	-0.29	2
4	MP-3	X	-0.33	6
5	MP-2	X	-0.31	3
6	MP-2	X	-0.47	3
7	MP-2	X	-0.5	5
8	MP-2	X	-0.27	5
9	MP-4	X	-0.36	5
10	MP-4	X	-0.62	5
11	MP-2	X	-0.18	1
12	MP-4	X	-0.18	1
13	MP-3	X	-0.25	1
14	MP-6	X	-0.64	2.5
15	MP-8	X	-0.49	2.5



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Member Point Loads (BLC 4 : 45 Wind - No Ice) (Continued)

Member Label	Direction	Magnitude(k.k-ft)	Location(ft.%)	
16	MP-7	X	-0.16	2
17	MP-7	X	-0.23	6
18	MP-6	X	-0.57	3
19	MP-6	X	-0.57	3
20	MP-6	X	-0.57	5
21	MP-6	X	-0.38	5
22	MP-8	X	-0.41	5
23	MP-8	X	-0.7	5
24	MP-10	X	-1.31	2.5
25	MP-12	X	-1.16	2.5
26	MP-11	X	-0.37	2
27	MP-11	X	-0.4	6
28	MP-10	X	-0.37	3
29	MP-10	X	-0.37	3
30	MP-10	X	-0.37	5
31	MP-10	X	-0.31	5
32	MP-12	X	-0.24	5
33	MP-12	X	-0.53	5
34	MP-2	X	-1.05	7.5
35	MP-4	X	-0.9	7.5
36	MP-3	X	-0.29	4
37	MP-3	X	-0.33	8
38	MP-6	X	-0.64	7.5
39	MP-8	X	-0.49	7.5
40	MP-7	X	-0.16	4
41	MP-7	X	-0.23	8
42	MP-10	X	-1.31	7.5
43	MP-12	X	-1.16	7.5
44	MP-11	X	-0.37	4
45	MP-11	X	-0.4	8
46	MP-2	Z	-1.05	2.5
47	MP-4	Z	-0.9	2.5
48	MP-3	Z	-0.29	2
49	MP-3	Z	-0.33	6
50	MP-2	Z	-0.31	3
51	MP-2	Z	-0.47	3
52	MP-2	Z	-0.5	5
53	MP-2	Z	-0.27	5
54	MP-4	Z	-0.36	5
55	MP-4	Z	-0.62	5
56	MP-2	Z	-0.18	1
57	MP-4	Z	-0.18	1
58	MP-3	Z	-0.25	1
59	MP-6	Z	-0.64	2.5
60	MP-8	Z	-0.49	2.5
61	MP-7	Z	-0.16	2
62	MP-7	Z	-0.23	6
63	MP-6	Z	-0.57	3
64	MP-6	Z	-0.57	3
65	MP-6	Z	-0.57	5
66	MP-6	Z	-0.38	5
67	MP-8	Z	-0.41	5



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Member Point Loads (BLC 4 : 45 Wind - No Ice) (Continued)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
68	MP-8	Z	-07	5
69	MP-10	Z	-131	2.5
70	MP-12	Z	-116	2.5
71	MP-11	Z	-037	2
72	MP-11	Z	-04	6
73	MP-10	Z	-037	3
74	MP-10	Z	-037	3
75	MP-10	Z	-037	5
76	MP-10	Z	-031	5
77	MP-12	Z	-024	5
78	MP-12	Z	-053	5
79	MP-2	Z	-105	7.5
80	MP-4	Z	-09	7.5
81	MP-3	Z	-029	4
82	MP-3	Z	-033	8
83	MP-6	Z	-064	7.5
84	MP-8	Z	-049	7.5
85	MP-7	Z	-016	4
86	MP-7	Z	-023	8
87	MP-10	Z	-131	7.5
88	MP-12	Z	-116	7.5
89	MP-11	Z	-037	4
90	MP-11	Z	-04	8

Member Point Loads (BLC 5 : 60 Wind - No Ice)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
1	MP-2	X	-059	2.5
2	MP-4	X	-049	2.5
3	MP-3	X	-016	2
4	MP-3	X	-02	6
5	MP-2	X	-025	3
6	MP-2	X	-037	3
7	MP-2	X	-039	5
8	MP-2	X	-024	5
9	MP-4	X	-028	5
10	MP-4	X	-047	5
11	MP-2	X	-013	1
12	MP-4	X	-013	1
13	MP-3	X	-017	1
14	MP-6	X	-052	2.5
15	MP-8	X	-041	2.5
16	MP-7	X	-014	2
17	MP-7	X	-018	6
18	MP-6	X	-037	3
19	MP-6	X	-037	3
20	MP-6	X	-038	5
21	MP-6	X	-024	5
22	MP-8	X	-028	5
23	MP-8	X	-047	5
24	MP-10	X	-101	2.5
25	MP-12	X	-091	2.5



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Member Point Loads (BLC 5 : 60 Wind - No Ice) (Continued)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
26	MP-11	X	-029	2
27	MP-11	X	-03	6
28	MP-10	X	-025	3
29	MP-10	X	-025	3
30	MP-10	X	-025	5
31	MP-10	X	-021	5
32	MP-12	X	-016	5
33	MP-12	X	-037	5
34	MP-2	X	-059	7.5
35	MP-4	X	-049	7.5
36	MP-3	X	-016	4
37	MP-3	X	-02	8
38	MP-6	X	-052	7.5
39	MP-8	X	-041	7.5
40	MP-7	X	-014	4
41	MP-7	X	-018	8
42	MP-10	X	-101	7.5
43	MP-12	X	-091	7.5
44	MP-11	X	-029	4
45	MP-11	X	-03	8
46	MP-2	Z	-103	2.5
47	MP-4	Z	-085	2.5
48	MP-3	Z	-028	2
49	MP-3	Z	-034	6
50	MP-2	Z	-043	3
51	MP-2	Z	-065	3
52	MP-2	Z	-068	5
53	MP-2	Z	-041	5
54	MP-4	Z	-048	5
55	MP-4	Z	-081	5
56	MP-2	Z	-022	1
57	MP-4	Z	-022	1
58	MP-3	Z	-03	1
59	MP-6	Z	-09	2.5
60	MP-8	Z	-071	2.5
61	MP-7	Z	-023	2
62	MP-7	Z	-031	6
63	MP-6	Z	-065	3
64	MP-6	Z	-065	3
65	MP-6	Z	-065	5
66	MP-6	Z	-041	5
67	MP-8	Z	-048	5
68	MP-8	Z	-081	5
69	MP-10	Z	-176	2.5
70	MP-12	Z	-158	2.5
71	MP-11	Z	-05	2
72	MP-11	Z	-052	6
73	MP-10	Z	-044	3
74	MP-10	Z	-044	3
75	MP-10	Z	-044	5
76	MP-10	Z	-037	5
77	MP-12	Z	-028	5



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Member Point Loads (BLC 5 : 60 Wind - No Ice) (Continued)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
78	MP-12	Z	-0.064 5
79	MP-2	Z	-1.03 7.5
80	MP-4	Z	-0.085 7.5
81	MP-3	Z	-0.028 4
82	MP-3	Z	-0.034 8
83	MP-6	Z	-0.09 7.5
84	MP-8	Z	-0.071 7.5
85	MP-7	Z	-0.023 4
86	MP-7	Z	-0.031 8
87	MP-10	Z	-0.176 7.5
88	MP-12	Z	-0.158 7.5
89	MP-11	Z	-0.05 4
90	MP-11	Z	-0.052 8

Member Point Loads (BLC 6 : 90 Wind - No Ice)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
1	MP-2	Z	-0.09 2.5
2	MP-4	Z	-0.069 2.5
3	MP-3	Z	-0.023 2
4	MP-3	Z	-0.032 6
5	MP-2	Z	-0.056 3
6	MP-2	Z	-0.083 3
7	MP-2	Z	-0.087 5
8	MP-2	Z	-0.056 5
9	MP-4	Z	-0.06 5
10	MP-4	Z	-0.101 5
11	MP-2	Z	-0.026 1
12	MP-4	Z	-0.026 1
13	MP-3	Z	-0.035 1
14	MP-6	Z	-0.158 2.5
15	MP-8	Z	-0.137 2.5
16	MP-7	Z	-0.044 2
17	MP-7	Z	-0.049 6
18	MP-6	Z	-0.059 3
19	MP-6	Z	-0.059 3
20	MP-6	Z	-0.059 5
21	MP-6	Z	-0.03 5
22	MP-8	Z	-0.047 5
23	MP-8	Z	-0.08 5
24	MP-10	Z	-0.193 2.5
25	MP-12	Z	-0.172 2.5
26	MP-11	Z	-0.054 2
27	MP-11	Z	-0.058 6
28	MP-10	Z	-0.059 3
29	MP-10	Z	-0.059 3
30	MP-10	Z	-0.059 5
31	MP-10	Z	-0.047 5
32	MP-12	Z	-0.038 5
33	MP-12	Z	-0.08 5
34	MP-2	Z	-0.09 7.5
35	MP-4	Z	-0.069 7.5



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Member Point Loads (BLC 6 : 90 Wind - No Ice) (Continued)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
36	MP-3	Z	-0.023 4
37	MP-3	Z	-0.032 8
38	MP-6	Z	-0.158 7.5
39	MP-8	Z	-0.137 7.5
40	MP-7	Z	-0.044 4
41	MP-7	Z	-0.049 8
42	MP-10	Z	-0.193 7.5
43	MP-12	Z	-0.172 7.5
44	MP-11	Z	-0.054 4
45	MP-11	Z	-0.058 8

Member Point Loads (BLC 7 : 120 Wind - No Ice)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
1	MP-2	X	0.059 2.5
2	MP-4	X	0.049 2.5
3	MP-3	X	0.016 2
4	MP-3	X	0.02 6
5	MP-2	X	0.025 3
6	MP-2	X	0.037 3
7	MP-2	X	0.039 5
8	MP-2	X	0.024 5
9	MP-4	X	0.028 5
10	MP-4	X	0.047 5
11	MP-2	X	0.013 1
12	MP-4	X	0.013 1
13	MP-3	X	0.017 1
14	MP-6	X	0.101 2.5
15	MP-8	X	0.091 2.5
16	MP-7	X	0.029 2
17	MP-7	X	0.03 6
18	MP-6	X	0.025 3
19	MP-6	X	0.025 3
20	MP-6	X	0.025 5
21	MP-6	X	0.011 5
22	MP-8	X	0.021 5
23	MP-8	X	0.037 5
24	MP-10	X	0.069 2.5
25	MP-12	X	0.059 2.5
26	MP-11	X	0.019 2
27	MP-11	X	0.022 6
28	MP-10	X	0.037 3
29	MP-10	X	0.037 3
30	MP-10	X	0.038 5
31	MP-10	X	0.028 5
32	MP-12	X	0.025 5
33	MP-12	X	0.047 5
34	MP-2	X	0.059 7.5
35	MP-4	X	0.049 7.5
36	MP-3	X	0.016 4
37	MP-3	X	0.02 8
38	MP-6	X	0.101 7.5



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Member Point Loads (BLC 7 : 120 Wind - No Ice) (Continued)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft,%)
39	MP-8	X .091	7.5
40	MP-7	X .029	4
41	MP-7	X .03	8
42	MP-10	X .069	7.5
43	MP-12	X .059	7.5
44	MP-11	X .019	4
45	MP-11	X .022	8
46	MP-2	Z -1.03	2.5
47	MP-4	Z -.085	2.5
48	MP-3	Z -.028	2
49	MP-3	Z -.034	6
50	MP-2	Z -.043	3
51	MP-2	Z -.065	3
52	MP-2	Z -.068	5
53	MP-2	Z -.041	5
54	MP-4	Z -.048	5
55	MP-4	Z -.081	5
56	MP-2	Z -.022	1
57	MP-4	Z -.022	1
58	MP-3	Z -.03	1
59	MP-6	Z -.176	2.5
60	MP-8	Z -.158	2.5
61	MP-7	Z -.05	2
62	MP-7	Z -.052	6
63	MP-6	Z -.044	3
64	MP-6	Z -.044	3
65	MP-6	Z -.044	5
66	MP-6	Z -.018	5
67	MP-8	Z -.037	5
68	MP-8	Z -.064	5
69	MP-10	Z -.119	2.5
70	MP-12	Z -.101	2.5
71	MP-11	Z -.033	2
72	MP-11	Z -.038	6
73	MP-10	Z -.065	3
74	MP-10	Z -.065	3
75	MP-10	Z -.065	5
76	MP-10	Z -.048	5
77	MP-12	Z -.043	5
78	MP-12	Z -.081	5
79	MP-2	Z -.103	7.5
80	MP-4	Z -.085	7.5
81	MP-3	Z -.028	4
82	MP-3	Z -.034	8
83	MP-6	Z -.176	7.5
84	MP-8	Z -.158	7.5
85	MP-7	Z -.05	4
86	MP-7	Z -.052	8
87	MP-10	Z -.119	7.5
88	MP-12	Z -.101	7.5
89	MP-11	Z -.033	4
90	MP-11	Z -.038	8



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Member Point Loads (BLC 8 : 135 Wind - No Ice)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft,%)
1	MP-2	X .105	2.5
2	MP-4	X .09	2.5
3	MP-3	X .029	2
4	MP-3	X .033	6
5	MP-2	X .031	3
6	MP-2	X .047	3
7	MP-2	X .05	5
8	MP-2	X .027	5
9	MP-4	X .036	5
10	MP-4	X .062	5
11	MP-2	X .018	1
12	MP-4	X .018	1
13	MP-3	X .025	1
14	MP-6	X .145	2.5
15	MP-8	X .131	2.5
16	MP-7	X .041	2
17	MP-7	X .043	6
18	MP-6	X .037	3
19	MP-6	X .037	3
20	MP-6	X .037	5
21	MP-6	X .017	5
22	MP-8	X .031	5
23	MP-8	X .053	5
24	MP-10	X .078	2.5
25	MP-12	X .063	2.5
26	MP-11	X .021	2
27	MP-11	X .027	6
28	MP-10	X .057	3
29	MP-10	X .057	3
30	MP-10	X .057	5
31	MP-10	X .041	5
32	MP-12	X .038	5
33	MP-12	X .07	5
34	MP-2	X .105	7.5
35	MP-4	X .09	7.5
36	MP-3	X .029	4
37	MP-3	X .033	8
38	MP-6	X .145	7.5
39	MP-8	X .131	7.5
40	MP-7	X .041	4
41	MP-7	X .043	8
42	MP-10	X .078	7.5
43	MP-12	X .063	7.5
44	MP-11	X .021	4
45	MP-11	X .027	8
46	MP-2	Z -.105	2.5
47	MP-4	Z -.09	2.5
48	MP-3	Z -.029	2
49	MP-3	Z -.033	6
50	MP-2	Z -.031	3
51	MP-2	Z -.047	3
52	MP-2	Z -.05	5



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Member Point Loads (BLC 8 : 135 Wind - No Ice) (Continued)

Member Label	Direction	Magnitude(k.k-ft)	Location(ft.%)	
53	MP-2	Z	-0.27	5
54	MP-4	Z	-0.36	5
55	MP-4	Z	-0.62	5
56	MP-2	Z	-0.18	1
57	MP-4	Z	-0.18	1
58	MP-3	Z	-0.25	1
59	MP-6	Z	-1.45	2.5
60	MP-8	Z	-1.31	2.5
61	MP-7	Z	-0.41	2
62	MP-7	Z	-0.43	6
63	MP-6	Z	-0.37	3
64	MP-6	Z	-0.37	3
65	MP-6	Z	-0.37	5
66	MP-6	Z	-0.17	5
67	MP-8	Z	-0.31	5
68	MP-8	Z	-0.53	5
69	MP-10	Z	-0.78	2.5
70	MP-12	Z	-0.63	2.5
71	MP-11	Z	-0.21	2
72	MP-11	Z	-0.27	6
73	MP-10	Z	-0.57	3
74	MP-10	Z	-0.57	3
75	MP-10	Z	-0.57	5
76	MP-10	Z	-0.41	5
77	MP-12	Z	-0.38	5
78	MP-12	Z	-0.07	5
79	MP-2	Z	-1.05	7.5
80	MP-4	Z	-0.09	7.5
81	MP-3	Z	-0.29	4
82	MP-3	Z	-0.33	8
83	MP-6	Z	-1.45	7.5
84	MP-8	Z	-1.31	7.5
85	MP-7	Z	-0.41	4
86	MP-7	Z	-0.43	8
87	MP-10	Z	-0.78	7.5
88	MP-12	Z	-0.63	7.5
89	MP-11	Z	-0.21	4
90	MP-11	Z	-0.27	8

Member Point Loads (BLC 9 : 150 Wind - No Ice)

Member Label	Direction	Magnitude(k.k-ft)	Location(ft.%)	
1	MP-2	X	.153	2.5
2	MP-4	X	.135	2.5
3	MP-3	X	.043	2
4	MP-3	X	.047	6
5	MP-2	X	.033	3
6	MP-2	X	.051	3
7	MP-2	X	.054	5
8	MP-2	X	.026	5
9	MP-4	X	.041	5
10	MP-4	X	.07	5



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Member Point Loads (BLC 9 : 150 Wind - No Ice) (Continued)

Member Label	Direction	Magnitude(k.k-ft)	Location(ft.%)	
11	MP-2	X	.022	1
12	MP-4	X	.022	1
13	MP-3	X	.03	1
14	MP-6	X	.167	2.5
15	MP-8	X	.149	2.5
16	MP-7	X	.047	2
17	MP-7	X	.05	6
18	MP-6	X	.051	3
19	MP-6	X	.051	3
20	MP-6	X	.051	5
21	MP-6	X	.026	5
22	MP-8	X	.041	5
23	MP-8	X	.07	5
24	MP-10	X	.081	2.5
25	MP-12	X	.063	2.5
26	MP-11	X	.021	2
27	MP-11	X	.029	6
28	MP-10	X	.072	3
29	MP-10	X	.072	3
30	MP-10	X	.072	3
31	MP-10	X	.052	5
32	MP-12	X	.048	5
33	MP-12	X	.087	5
34	MP-2	X	.153	7.5
35	MP-4	X	.135	7.5
36	MP-3	X	.043	4
37	MP-3	X	.047	8
38	MP-6	X	.167	7.5
39	MP-8	X	.149	7.5
40	MP-7	X	.047	4
41	MP-7	X	.05	8
42	MP-10	X	.081	7.5
43	MP-12	X	.063	7.5
44	MP-11	X	.021	4
45	MP-11	X	.029	8
46	MP-2	Z	-.089	2.5
47	MP-4	Z	-.078	2.5
48	MP-3	Z	-.025	2
49	MP-3	Z	-.027	6
50	MP-2	Z	-.019	3
51	MP-2	Z	-.029	3
52	MP-2	Z	-.031	5
53	MP-2	Z	-.015	5
54	MP-4	Z	-.023	5
55	MP-4	Z	-.04	5
56	MP-2	Z	-.013	1
57	MP-4	Z	-.013	1
58	MP-3	Z	-.017	1
59	MP-6	Z	-.096	2.5
60	MP-8	Z	-.086	2.5
61	MP-7	Z	-.027	2
62	MP-7	Z	-.029	6



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Member Point Loads (BLC 9 : 150 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
63	MP-6	Z	-.029	3
64	MP-6	Z	-.029	3
65	MP-6	Z	-.029	5
66	MP-6	Z	-.015	5
67	MP-8	Z	-.023	5
68	MP-8	Z	-.04	5
69	MP-10	Z	-.047	2.5
70	MP-12	Z	-.036	2.5
71	MP-11	Z	-.012	2
72	MP-11	Z	-.017	6
73	MP-10	Z	-.041	3
74	MP-10	Z	-.041	3
75	MP-10	Z	-.042	5
76	MP-10	Z	-.03	5
77	MP-12	Z	-.028	5
78	MP-12	Z	-.05	5
79	MP-2	Z	-.089	7.5
80	MP-4	Z	-.078	7.5
81	MP-3	Z	-.025	4
82	MP-3	Z	-.027	8
83	MP-6	Z	-.096	7.5
84	MP-8	Z	-.086	7.5
85	MP-7	Z	-.027	4
86	MP-7	Z	-.029	8
87	MP-10	Z	-.047	7.5
88	MP-12	Z	-.036	7.5
89	MP-11	Z	-.012	4
90	MP-11	Z	-.017	8

Member Point Loads (BLC 10 : 180 Wind - No Ice)

	Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
1	MP-2	X	.206	2.5
2	MP-4	X	.186	2.5
3	MP-3	X	.058	2
4	MP-3	X	.061	6
5	MP-2	X	.032	3
6	MP-2	X	.051	3
7	MP-2	X	.054	5
8	MP-2	X	.021	5
9	MP-4	X	.043	5
10	MP-4	X	.074	5
11	MP-2	X	.026	1
12	MP-4	X	.026	1
13	MP-3	X	.035	1
14	MP-6	X	.138	2.5
15	MP-8	X	.117	2.5
16	MP-7	X	.038	2
17	MP-7	X	.044	6
18	MP-6	X	.075	3
19	MP-6	X	.075	3
20	MP-6	X	.075	5



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Member Point Loads (BLC 10 : 180 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
21	MP-6	X	.048	5
22	MP-8	X	.055	5
23	MP-8	X	.094	5
24	MP-10	X	.103	2.5
25	MP-12	X	.083	2.5
26	MP-11	X	.027	2
27	MP-11	X	.036	6
28	MP-10	X	.075	3
29	MP-10	X	.075	3
30	MP-10	X	.075	5
31	MP-10	X	.055	5
32	MP-12	X	.05	5
33	MP-12	X	.094	5
34	MP-2	X	.206	7.5
35	MP-4	X	.186	7.5
36	MP-3	X	.058	4
37	MP-3	X	.061	8
38	MP-6	X	.138	7.5
39	MP-8	X	.117	7.5
40	MP-7	X	.038	4
41	MP-7	X	.044	8
42	MP-10	X	.103	7.5
43	MP-12	X	.083	7.5
44	MP-11	X	.027	4
45	MP-11	X	.036	8

Member Point Loads (BLC 11 : 210 Wind - No Ice)

	Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
1	MP-2	X	.153	2.5
2	MP-4	X	.135	2.5
3	MP-3	X	.043	2
4	MP-3	X	.047	6
5	MP-2	X	.033	3
6	MP-2	X	.051	3
7	MP-2	X	.054	5
8	MP-2	X	.026	5
9	MP-4	X	.041	5
10	MP-4	X	.07	5
11	MP-2	X	.022	1
12	MP-4	X	.022	1
13	MP-3	X	.03	1
14	MP-6	X	.081	2.5
15	MP-8	X	.063	2.5
16	MP-7	X	.021	2
17	MP-7	X	.029	6
18	MP-6	X	.072	3
19	MP-6	X	.072	3
20	MP-6	X	.072	5
21	MP-6	X	.049	5
22	MP-8	X	.052	5
23	MP-8	X	.087	5



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Member Point Loads (BLC 11 : 210 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude(k. k-ft)	Location(ft.%)
24	MP-10	X	.137	2.5
25	MP-12	X	.119	2.5
26	MP-11	X	.038	2
27	MP-11	X	.043	6
28	MP-10	X	.051	3
29	MP-10	X	.051	3
30	MP-10	X	.051	5
31	MP-10	X	.041	5
32	MP-12	X	.033	5
33	MP-12	X	.07	5
34	MP-2	X	.153	7.5
35	MP-4	X	.135	7.5
36	MP-3	X	.043	4
37	MP-3	X	.047	8
38	MP-6	X	.081	7.5
39	MP-8	X	.063	7.5
40	MP-7	X	.021	4
41	MP-7	X	.029	8
42	MP-10	X	.137	7.5
43	MP-12	X	.119	7.5
44	MP-11	X	.038	4
45	MP-11	X	.043	8
46	MP-2	Z	.089	2.5
47	MP-4	Z	.078	2.5
48	MP-3	Z	.025	2
49	MP-3	Z	.027	6
50	MP-2	Z	.019	3
51	MP-2	Z	.029	3
52	MP-2	Z	.031	5
53	MP-2	Z	.015	5
54	MP-4	Z	.023	5
55	MP-4	Z	.04	5
56	MP-2	Z	.013	1
57	MP-4	Z	.013	1
58	MP-3	Z	.017	1
59	MP-6	Z	.047	2.5
60	MP-8	Z	.036	2.5
61	MP-7	Z	.012	2
62	MP-7	Z	.017	6
63	MP-6	Z	.041	3
64	MP-6	Z	.041	3
65	MP-6	Z	.042	5
66	MP-6	Z	.028	5
67	MP-8	Z	.03	5
68	MP-8	Z	.05	5
69	MP-10	Z	.079	2.5
70	MP-12	Z	.069	2.5
71	MP-11	Z	.022	2
72	MP-11	Z	.025	6
73	MP-10	Z	.029	3
74	MP-10	Z	.029	3
75	MP-10	Z	.029	5



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Member Point Loads (BLC 11 : 210 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude(k. k-ft)	Location(ft.%)
76	MP-10	Z	.023	5
77	MP-12	Z	.019	5
78	MP-12	Z	.04	5
79	MP-2	Z	.089	7.5
80	MP-4	Z	.078	7.5
81	MP-3	Z	.025	4
82	MP-3	Z	.027	8
83	MP-6	Z	.047	7.5
84	MP-8	Z	.036	7.5
85	MP-7	Z	.012	4
86	MP-7	Z	.017	8
87	MP-10	Z	.079	7.5
88	MP-12	Z	.069	7.5
89	MP-11	Z	.022	4
90	MP-11	Z	.025	8

Member Point Loads (BLC 12 : 225 Wind - No Ice)

	Member Label	Direction	Magnitude(k. k-ft)	Location(ft.%)
1	MP-2	X	.105	2.5
2	MP-4	X	.09	2.5
3	MP-3	X	.029	2
4	MP-3	X	.033	6
5	MP-2	X	.031	3
6	MP-2	X	.047	3
7	MP-2	X	.05	5
8	MP-2	X	.027	5
9	MP-4	X	.036	5
10	MP-4	X	.062	5
11	MP-2	X	.018	1
12	MP-4	X	.018	1
13	MP-3	X	.025	1
14	MP-6	X	.064	2.5
15	MP-8	X	.049	2.5
16	MP-7	X	.016	2
17	MP-7	X	.023	6
18	MP-6	X	.057	3
19	MP-6	X	.057	3
20	MP-6	X	.057	5
21	MP-6	X	.038	5
22	MP-8	X	.041	5
23	MP-8	X	.07	5
24	MP-10	X	.131	2.5
25	MP-12	X	.116	2.5
26	MP-11	X	.037	2
27	MP-11	X	.04	6
28	MP-10	X	.037	3
29	MP-10	X	.037	3
30	MP-10	X	.037	5
31	MP-10	X	.031	5
32	MP-12	X	.024	5
33	MP-12	X	.053	5



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Member Point Loads (BLC 12 : 225 Wind - No Ice) (Continued)

Member Label	Direction	Magnitude(k.k-ft)	Location(ft.%)	
34	MP-2	X	.105	7.5
35	MP-4	X	.09	7.5
36	MP-3	X	.029	4
37	MP-3	X	.033	8
38	MP-6	X	.064	7.5
39	MP-8	X	.049	7.5
40	MP-7	X	.016	4
41	MP-7	X	.023	8
42	MP-10	X	.131	7.5
43	MP-12	X	.116	7.5
44	MP-11	X	.037	4
45	MP-11	X	.04	8
46	MP-2	Z	.105	2.5
47	MP-4	Z	.09	2.5
48	MP-3	Z	.029	2
49	MP-3	Z	.033	6
50	MP-2	Z	.031	3
51	MP-2	Z	.047	3
52	MP-2	Z	.05	5
53	MP-2	Z	.027	5
54	MP-4	Z	.036	5
55	MP-4	Z	.062	5
56	MP-2	Z	.018	1
57	MP-4	Z	.018	1
58	MP-3	Z	.025	1
59	MP-6	Z	.064	2.5
60	MP-8	Z	.049	2.5
61	MP-7	Z	.016	2
62	MP-7	Z	.023	6
63	MP-6	Z	.057	3
64	MP-6	Z	.057	3
65	MP-6	Z	.057	5
66	MP-6	Z	.038	5
67	MP-8	Z	.041	5
68	MP-8	Z	.07	5
69	MP-10	Z	.131	2.5
70	MP-12	Z	.116	2.5
71	MP-11	Z	.037	2
72	MP-11	Z	.04	6
73	MP-10	Z	.037	3
74	MP-10	Z	.037	3
75	MP-10	Z	.037	5
76	MP-10	Z	.031	5
77	MP-12	Z	.024	5
78	MP-12	Z	.053	5
79	MP-2	Z	.105	7.5
80	MP-4	Z	.09	7.5
81	MP-3	Z	.029	4
82	MP-3	Z	.033	8
83	MP-6	Z	.064	7.5
84	MP-8	Z	.049	7.5
85	MP-7	Z	.016	4



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Member Point Loads (BLC 12 : 225 Wind - No Ice) (Continued)

Member Label	Direction	Magnitude(k.k-ft)	Location(ft.%)	
86	MP-7	Z	.023	8
87	MP-10	Z	.131	7.5
88	MP-12	Z	.116	7.5
89	MP-11	Z	.037	4
90	MP-11	Z	.04	8

Member Point Loads (BLC 13 : 240 Wind - No Ice)

Member Label	Direction	Magnitude(k.k-ft)	Location(ft.%)	
1	MP-2	X	.059	2.5
2	MP-4	X	.049	2.5
3	MP-3	X	.016	2
4	MP-3	X	.02	6
5	MP-2	X	.025	3
6	MP-2	X	.037	3
7	MP-2	X	.039	5
8	MP-2	X	.024	5
9	MP-4	X	.028	5
10	MP-4	X	.047	5
11	MP-2	X	.013	1
12	MP-4	X	.013	1
13	MP-3	X	.017	1
14	MP-6	X	.062	2.5
15	MP-8	X	.041	2.5
16	MP-7	X	.014	2
17	MP-7	X	.018	6
18	MP-6	X	.037	3
19	MP-6	X	.037	3
20	MP-6	X	.038	5
21	MP-6	X	.024	5
22	MP-8	X	.028	5
23	MP-8	X	.047	5
24	MP-10	X	.101	2.5
25	MP-12	X	.091	2.5
26	MP-11	X	.029	2
27	MP-11	X	.03	6
28	MP-10	X	.025	3
29	MP-10	X	.025	3
30	MP-10	X	.025	5
31	MP-10	X	.021	5
32	MP-12	X	.016	5
33	MP-12	X	.037	5
34	MP-2	X	.059	7.5
35	MP-4	X	.049	7.5
36	MP-3	X	.016	4
37	MP-3	X	.02	8
38	MP-6	X	.052	7.5
39	MP-8	X	.041	7.5
40	MP-7	X	.014	4
41	MP-7	X	.018	8
42	MP-10	X	.101	7.5
43	MP-12	X	.091	7.5



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Member Point Loads (BLC 13 : 240 Wind - No Ice) (Continued)

Member Label	Direction	Magnitude(k.k-ft)	Location(ft.%)	
44	MP-11	X	.029	4
45	MP-11	X	.03	8
46	MP-2	Z	.103	2.5
47	MP-4	Z	.085	2.5
48	MP-3	Z	.028	2
49	MP-3	Z	.034	6
50	MP-2	Z	.043	3
51	MP-2	Z	.065	3
52	MP-2	Z	.068	5
53	MP-2	Z	.041	5
54	MP-4	Z	.048	5
55	MP-4	Z	.081	5
56	MP-2	Z	.022	1
57	MP-4	Z	.022	1
58	MP-3	Z	.03	1
59	MP-6	Z	.09	2.5
60	MP-8	Z	.071	2.5
61	MP-7	Z	.023	2
62	MP-7	Z	.031	6
63	MP-6	Z	.065	3
64	MP-6	Z	.065	3
65	MP-6	Z	.065	5
66	MP-6	Z	.041	5
67	MP-8	Z	.048	5
68	MP-8	Z	.081	5
69	MP-10	Z	.176	2.5
70	MP-12	Z	.158	2.5
71	MP-11	Z	.05	2
72	MP-11	Z	.052	6
73	MP-10	Z	.044	3
74	MP-10	Z	.044	3
75	MP-10	Z	.044	5
76	MP-10	Z	.037	5
77	MP-12	Z	.028	5
78	MP-12	Z	.064	5
79	MP-2	Z	.103	7.5
80	MP-4	Z	.085	7.5
81	MP-3	Z	.028	4
82	MP-3	Z	.034	8
83	MP-6	Z	.09	7.5
84	MP-8	Z	.071	7.5
85	MP-7	Z	.023	4
86	MP-7	Z	.031	8
87	MP-10	Z	.176	7.5
88	MP-12	Z	.158	7.5
89	MP-11	Z	.05	4
90	MP-11	Z	.052	8

Member Point Loads (BLC 14 : 270 Wind - No Ice)

Member Label	Direction	Magnitude(k.k-ft)	Location(ft.%)	
1	MP-2	Z	.09	2.5



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Member Point Loads (BLC 14 : 270 Wind - No Ice) (Continued)

Member Label	Direction	Magnitude(k.k-ft)	Location(ft.%)	
2	MP-4	Z	.069	2.5
3	MP-3	Z	.023	2
4	MP-3	Z	.032	6
5	MP-2	Z	.056	3
6	MP-2	Z	.083	3
7	MP-2	Z	.087	5
8	MP-2	Z	.056	5
9	MP-4	Z	.06	5
10	MP-4	Z	.101	5
11	MP-2	Z	.026	1
12	MP-4	Z	.026	1
13	MP-3	Z	.035	1
14	MP-6	Z	.158	2.5
15	MP-8	Z	.137	2.5
16	MP-7	Z	.044	2
17	MP-7	Z	.049	6
18	MP-6	Z	.059	3
19	MP-6	Z	.059	3
20	MP-6	Z	.059	5
21	MP-6	Z	.03	5
22	MP-8	Z	.047	5
23	MP-8	Z	.08	5
24	MP-10	Z	.193	2.5
25	MP-12	Z	.172	2.5
26	MP-11	Z	.054	2
27	MP-11	Z	.058	6
28	MP-10	Z	.059	3
29	MP-10	Z	.059	3
30	MP-10	Z	.059	5
31	MP-10	Z	.047	5
32	MP-12	Z	.038	5
33	MP-12	Z	.08	5
34	MP-2	Z	.09	7.5
35	MP-4	Z	.069	7.5
36	MP-3	Z	.023	4
37	MP-3	Z	.032	8
38	MP-6	Z	.158	7.5
39	MP-8	Z	.137	7.5
40	MP-7	Z	.044	4
41	MP-7	Z	.049	8
42	MP-10	Z	.193	7.5
43	MP-12	Z	.172	7.5
44	MP-11	Z	.054	4
45	MP-11	Z	.058	8

Member Point Loads (BLC 15 : 300 Wind - No Ice)

Member Label	Direction	Magnitude(k.k-ft)	Location(ft.%)	
1	MP-2	X	-.059	2.5
2	MP-4	X	-.049	2.5
3	MP-3	X	-.016	2
4	MP-3	X	-.02	6



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Member Point Loads (BLC 15 : 300 Wind - No Ice) (Continued)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft,%)
5	MP-2	X	-0.25 3
6	MP-2	X	-0.37 3
7	MP-2	X	-0.39 5
8	MP-2	X	-0.24 5
9	MP-4	X	-0.28 5
10	MP-4	X	-0.47 5
11	MP-2	X	-0.13 1
12	MP-4	X	-0.13 1
13	MP-3	X	-0.17 1
14	MP-6	X	-1.01 2.5
15	MP-8	X	-0.91 2.5
16	MP-7	X	-0.29 2
17	MP-7	X	-0.3 6
18	MP-6	X	-0.25 3
19	MP-6	X	-0.25 3
20	MP-6	X	-0.25 5
21	MP-6	X	-0.11 5
22	MP-8	X	-0.21 5
23	MP-8	X	-0.37 2.5
24	MP-10	X	-0.69 2.5
25	MP-12	X	-0.59 2.5
26	MP-11	X	-0.19 2
27	MP-11	X	-0.22 6
28	MP-10	X	-0.37 3
29	MP-10	X	-0.37 3
30	MP-10	X	-0.38 5
31	MP-10	X	-0.28 5
32	MP-12	X	-0.25 5
33	MP-12	X	-0.47 5
34	MP-2	X	-0.59 7.5
35	MP-4	X	-0.49 7.5
36	MP-3	X	-0.16 4
37	MP-3	X	-0.2 8
38	MP-6	X	-1.01 7.5
39	MP-8	X	-0.91 7.5
40	MP-7	X	-0.29 4
41	MP-7	X	-0.3 8
42	MP-10	X	-0.69 7.5
43	MP-12	X	-0.59 7.5
44	MP-11	X	-0.19 4
45	MP-11	X	-0.22 8
46	MP-2	Z	1.03 2.5
47	MP-4	Z	0.85 2.5
48	MP-3	Z	0.28 2
49	MP-3	Z	0.34 6
50	MP-2	Z	0.43 3
51	MP-2	Z	0.65 3
52	MP-2	Z	0.68 5
53	MP-2	Z	0.41 5
54	MP-4	Z	0.48 5
55	MP-4	Z	0.81 5
56	MP-2	Z	0.22 1



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Member Point Loads (BLC 15 : 300 Wind - No Ice) (Continued)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft,%)
57	MP-4	Z	0.22 1
58	MP-3	Z	0.3 1
59	MP-6	Z	0.176 2.5
60	MP-8	Z	0.158 2.5
61	MP-7	Z	0.5 2
62	MP-7	Z	0.52 6
63	MP-6	Z	0.44 3
64	MP-6	Z	0.44 3
65	MP-6	Z	0.44 5
66	MP-6	Z	0.18 5
67	MP-8	Z	0.37 5
68	MP-8	Z	0.64 5
69	MP-10	Z	0.119 2.5
70	MP-12	Z	0.101 2.5
71	MP-11	Z	0.33 2
72	MP-11	Z	0.38 6
73	MP-10	Z	0.65 3
74	MP-10	Z	0.65 3
75	MP-10	Z	0.65 5
76	MP-10	Z	0.48 5
77	MP-12	Z	0.43 5
78	MP-12	Z	0.81 5
79	MP-2	Z	1.03 7.5
80	MP-4	Z	0.85 7.5
81	MP-3	Z	0.28 4
82	MP-3	Z	0.34 8
83	MP-6	Z	0.176 7.5
84	MP-8	Z	0.158 7.5
85	MP-7	Z	0.5 4
86	MP-7	Z	0.52 8
87	MP-10	Z	0.119 7.5
88	MP-12	Z	0.101 7.5
89	MP-11	Z	0.33 4
90	MP-11	Z	0.38 8

Member Point Loads (BLC 16 : 315 Wind - No Ice)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft,%)
1	MP-2	X	-1.05 2.5
2	MP-4	X	-0.99 2.5
3	MP-3	X	-0.29 2
4	MP-3	X	-0.33 6
5	MP-2	X	-0.31 3
6	MP-2	X	-0.47 3
7	MP-2	X	-0.5 5
8	MP-2	X	-0.27 5
9	MP-4	X	-0.36 5
10	MP-4	X	-0.62 5
11	MP-2	X	-0.18 1
12	MP-4	X	-0.18 1
13	MP-3	X	-0.25 1
14	MP-6	X	-1.45 2.5



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Member Point Loads (BLC 16 : 315 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
15	MP-8	X	-.131	2.5
16	MP-7	X	-.041	2
17	MP-7	X	-.043	6
18	MP-6	X	-.037	3
19	MP-6	X	-.037	3
20	MP-6	X	-.037	5
21	MP-6	X	-.017	5
22	MP-8	X	-.031	5
23	MP-8	X	-.053	5
24	MP-10	X	-.078	2.5
25	MP-12	X	-.063	2.5
26	MP-11	X	-.021	2
27	MP-11	X	-.027	6
28	MP-10	X	-.057	3
29	MP-10	X	-.057	3
30	MP-10	X	-.057	5
31	MP-10	X	-.041	5
32	MP-12	X	-.038	5
33	MP-12	X	-.07	5
34	MP-2	X	-.105	7.5
35	MP-4	X	-.09	7.5
36	MP-3	X	-.029	4
37	MP-3	X	-.033	8
38	MP-6	X	-.145	7.5
39	MP-8	X	-.131	7.5
40	MP-7	X	-.041	4
41	MP-7	X	-.043	8
42	MP-10	X	-.078	7.5
43	MP-12	X	-.063	7.5
44	MP-11	X	-.021	4
45	MP-11	X	-.027	8
46	MP-2	Z	.105	2.5
47	MP-4	Z	.09	2.5
48	MP-3	Z	.029	2
49	MP-3	Z	.033	6
50	MP-2	Z	.031	3
51	MP-2	Z	.047	3
52	MP-2	Z	.05	5
53	MP-2	Z	.027	5
54	MP-4	Z	.036	5
55	MP-4	Z	.062	5
56	MP-2	Z	.018	1
57	MP-4	Z	.018	1
58	MP-3	Z	.025	1
59	MP-6	Z	.145	2.5
60	MP-8	Z	.131	2.5
61	MP-7	Z	.041	2
62	MP-7	Z	.043	6
63	MP-6	Z	.037	3
64	MP-6	Z	.037	3
65	MP-6	Z	.037	5
66	MP-6	Z	.017	5



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Member Point Loads (BLC 16 : 315 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
67	MP-8	Z	.031	5
68	MP-8	Z	.053	5
69	MP-10	Z	.078	2.5
70	MP-12	Z	.063	2.5
71	MP-11	Z	.021	2
72	MP-11	Z	.027	6
73	MP-10	Z	.057	3
74	MP-10	Z	.057	3
75	MP-10	Z	.057	5
76	MP-10	Z	.041	5
77	MP-12	Z	.038	5
78	MP-12	Z	.07	5
79	MP-2	Z	.105	7.5
80	MP-4	Z	.09	7.5
81	MP-3	Z	.029	4
82	MP-3	Z	.033	8
83	MP-6	Z	.145	7.5
84	MP-8	Z	.131	7.5
85	MP-7	Z	.041	4
86	MP-7	Z	.043	8
87	MP-10	Z	.078	7.5
88	MP-12	Z	.063	7.5
89	MP-11	Z	.021	4
90	MP-11	Z	.027	8

Member Point Loads (BLC 17 : 330 Wind - No Ice)

	Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
1	MP-2	X	-.153	2.5
2	MP-4	X	-.135	2.5
3	MP-3	X	-.043	2
4	MP-3	X	-.047	6
5	MP-2	X	-.033	3
6	MP-2	X	-.051	3
7	MP-2	X	-.054	5
8	MP-2	X	-.026	5
9	MP-4	X	-.041	5
10	MP-4	X	-.07	5
11	MP-2	X	-.022	1
12	MP-4	X	-.022	1
13	MP-3	X	-.03	1
14	MP-6	X	-.167	2.5
15	MP-8	X	-.149	2.5
16	MP-7	X	-.047	2
17	MP-7	X	-.05	6
18	MP-6	X	-.051	3
19	MP-6	X	-.051	3
20	MP-6	X	-.051	5
21	MP-6	X	-.026	5
22	MP-8	X	-.041	5
23	MP-8	X	-.07	5
24	MP-10	X	-.081	2.5



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Member Point Loads (BLC 17 : 330 Wind - No Ice) (Continued)

Member Label	Direction	Magnitude(k.k-ft)	Location(ft.%)	
25	MP-12	X	-0.63	2.5
26	MP-11	X	-0.21	2
27	MP-11	X	-0.29	6
28	MP-10	X	-0.72	3
29	MP-10	X	-0.72	3
30	MP-10	X	-0.72	5
31	MP-10	X	-0.52	5
32	MP-12	X	-0.48	5
33	MP-12	X	-0.87	5
34	MP-2	X	-1.53	7.5
35	MP-4	X	-1.35	7.5
36	MP-3	X	-0.43	4
37	MP-3	X	-0.47	8
38	MP-6	X	-1.67	7.5
39	MP-8	X	-1.49	7.5
40	MP-7	X	-0.47	4
41	MP-7	X	-0.5	8
42	MP-10	X	-0.81	7.5
43	MP-12	X	-0.63	7.5
44	MP-11	X	-0.21	4
45	MP-11	X	-0.29	8
46	MP-2	Z	0.89	2.5
47	MP-4	Z	0.78	2.5
48	MP-3	Z	0.25	2
49	MP-3	Z	0.27	6
50	MP-2	Z	0.19	3
51	MP-2	Z	0.29	3
52	MP-2	Z	0.31	5
53	MP-2	Z	0.15	5
54	MP-4	Z	0.23	5
55	MP-4	Z	0.4	5
56	MP-2	Z	0.13	1
57	MP-4	Z	0.13	1
58	MP-3	Z	0.17	1
59	MP-6	Z	0.96	2.5
60	MP-8	Z	0.86	2.5
61	MP-7	Z	0.27	2
62	MP-7	Z	0.29	6
63	MP-6	Z	0.29	3
64	MP-6	Z	0.29	3
65	MP-6	Z	0.29	5
66	MP-6	Z	0.15	5
67	MP-8	Z	0.23	5
68	MP-8	Z	0.4	5
69	MP-10	Z	0.47	2.5
70	MP-12	Z	0.36	2.5
71	MP-11	Z	0.12	2
72	MP-11	Z	0.17	6
73	MP-10	Z	0.41	3
74	MP-10	Z	0.41	3
75	MP-10	Z	0.42	5
76	MP-10	Z	0.3	5



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Member Point Loads (BLC 17 : 330 Wind - No Ice) (Continued)

Member Label	Direction	Magnitude(k.k-ft)	Location(ft.%)	
77	MP-12	Z	0.28	5
78	MP-12	Z	0.5	5
79	MP-2	Z	0.89	7.5
80	MP-4	Z	0.78	7.5
81	MP-3	Z	0.25	4
82	MP-3	Z	0.27	8
83	MP-6	Z	0.96	7.5
84	MP-8	Z	0.86	7.5
85	MP-7	Z	0.27	4
86	MP-7	Z	0.29	8
87	MP-10	Z	0.47	7.5
88	MP-12	Z	0.36	7.5
89	MP-11	Z	0.12	4
90	MP-11	Z	0.17	8

Member Point Loads (BLC 18 : Ice Weight)

Member Label	Direction	Magnitude(k.k-ft)	Location(ft.%)	
1	MP-2	Y	-0.98	2.5
2	MP-4	Y	-0.88	2.5
3	MP-3	Y	-0.35	2
4	MP-3	Y	-0.36	6
5	MP-2	Y	-0.39	3
6	MP-2	Y	-0.51	3
7	MP-2	Y	-0.54	5
8	MP-2	Y	-0.33	5
9	MP-4	Y	-0.45	5
10	MP-4	Y	-0.67	5
11	MP-2	Y	-0.34	1
12	MP-4	Y	-0.34	1
13	MP-3	Y	-0.43	1
14	MP-6	Y	-0.98	2.5
15	MP-8	Y	-0.88	2.5
16	MP-7	Y	-0.35	2
17	MP-7	Y	-0.36	6
18	MP-6	Y	-0.51	3
19	MP-6	Y	-0.51	3
20	MP-6	Y	-0.52	5
21	MP-6	Y	-0.33	5
22	MP-8	Y	-0.45	5
23	MP-8	Y	-0.67	5
24	MP-10	Y	-0.98	2.5
25	MP-12	Y	-0.88	2.5
26	MP-11	Y	-0.35	2
27	MP-11	Y	-0.36	6
28	MP-10	Y	-0.51	3
29	MP-10	Y	-0.51	3
30	MP-10	Y	-0.52	5
31	MP-10	Y	-0.45	5
32	MP-12	Y	-0.39	5
33	MP-12	Y	-0.67	5
34	MP-2	Y	-0.98	7.5



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Member Point Loads (BLC 18 : Ice Weight) (Continued)

	Member Label	Direction	Magnitude(k, k-ft)	Location(ft,%)
35	MP-4	Y	-0.088	7.5
36	MP-3	Y	-0.035	4
37	MP-3	Y	-0.036	8
38	MP-6	Y	-0.098	7.5
39	MP-8	Y	-0.088	7.5
40	MP-7	Y	-0.035	4
41	MP-7	Y	-0.036	8
42	MP-10	Y	-0.098	7.5
43	MP-12	Y	-0.088	7.5
44	MP-11	Y	-0.035	4
45	MP-11	Y	-0.036	8

Member Point Loads (BLC 19 : 0 Wind - Ice)

	Member Label	Direction	Magnitude(k, k-ft)	Location(ft,%)
1	MP-2	X	-0.041	2.5
2	MP-4	X	-0.037	2.5
3	MP-3	X	-0.012	2
4	MP-3	X	-0.013	6
5	MP-2	X	-0.013	3
6	MP-2	X	-0.019	3
7	MP-2	X	-0.02	5
8	MP-2	X	-0.013	5
9	MP-4	X	-0.014	5
10	MP-4	X	-0.022	5
11	MP-2	X	-0.006	1
12	MP-4	X	-0.006	1
13	MP-3	X	-0.008	1
14	MP-6	X	-0.041	2.5
15	MP-8	X	-0.037	2.5
16	MP-7	X	-0.012	2
17	MP-7	X	-0.013	6
18	MP-6	X	-0.019	3
19	MP-6	X	-0.019	3
20	MP-6	X	-0.019	5
21	MP-6	X	-0.013	5
22	MP-8	X	-0.014	5
23	MP-8	X	-0.022	5
24	MP-10	X	-0.041	2.5
25	MP-12	X	-0.037	2.5
26	MP-11	X	-0.012	2
27	MP-11	X	-0.013	6
28	MP-10	X	-0.019	3
29	MP-10	X	-0.019	3
30	MP-10	X	-0.019	5
31	MP-10	X	-0.014	5
32	MP-12	X	-0.013	5
33	MP-12	X	-0.022	5
34	MP-2	X	-0.041	7.5
35	MP-4	X	-0.037	7.5
36	MP-3	X	-0.012	4
37	MP-3	X	-0.013	8



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Member Point Loads (BLC 19 : 0 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude(k, k-ft)	Location(ft,%)
38	MP-6	X	-0.041	7.5
39	MP-8	X	-0.037	7.5
40	MP-7	X	-0.012	4
41	MP-7	X	-0.013	8
42	MP-10	X	-0.041	7.5
43	MP-12	X	-0.037	7.5
44	MP-11	X	-0.012	4
45	MP-11	X	-0.013	8

Member Point Loads (BLC 20 : 30 Wind - Ice)

	Member Label	Direction	Magnitude(k, k-ft)	Location(ft,%)
1	MP-2	X	-0.031	2.5
2	MP-4	X	-0.027	2.5
3	MP-3	X	-0.009	2
4	MP-3	X	-0.01	6
5	MP-2	X	-0.008	3
6	MP-2	X	-0.012	3
7	MP-2	X	-0.013	5
8	MP-2	X	-0.007	5
9	MP-4	X	-0.01	5
10	MP-4	X	-0.016	5
11	MP-2	X	-0.005	1
12	MP-4	X	-0.005	1
13	MP-3	X	-0.007	1
14	MP-6	X	-0.018	2.5
15	MP-8	X	-0.014	2.5
16	MP-7	X	-0.005	2
17	MP-7	X	-0.007	6
18	MP-6	X	-0.016	3
19	MP-6	X	-0.016	3
20	MP-6	X	-0.016	5
21	MP-6	X	-0.011	5
22	MP-8	X	-0.012	5
23	MP-8	X	-0.019	5
24	MP-10	X	-0.028	2.5
25	MP-12	X	-0.024	2.5
26	MP-11	X	-0.008	2
27	MP-11	X	-0.009	6
28	MP-10	X	-0.012	3
29	MP-10	X	-0.012	3
30	MP-10	X	-0.012	5
31	MP-10	X	-0.01	5
32	MP-12	X	-0.008	5
33	MP-12	X	-0.016	5
34	MP-2	X	-0.031	7.5
35	MP-4	X	-0.027	7.5
36	MP-3	X	-0.009	4
37	MP-3	X	-0.01	8
38	MP-6	X	-0.018	7.5
39	MP-8	X	-0.014	7.5
40	MP-7	X	-0.005	4



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Member Point Loads (BLC 20 : 30 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude(k, k-ft)	Location(ft,%)
41	MP-7	X	-0.07	8
42	MP-10	X	-0.28	7.5
43	MP-12	X	-0.24	7.5
44	MP-11	X	-0.08	4
45	MP-11	X	-0.09	8
46	MP-2	Z	-0.18	2.5
47	MP-4	Z	-0.16	2.5
48	MP-3	Z	-0.05	2
49	MP-3	Z	-0.06	6
50	MP-2	Z	-0.05	3
51	MP-2	Z	-0.07	3
52	MP-2	Z	-0.07	5
53	MP-2	Z	-0.04	5
54	MP-4	Z	-0.06	5
55	MP-4	Z	-0.09	5
56	MP-2	Z	-0.03	1
57	MP-4	Z	-0.03	1
58	MP-3	Z	-0.04	1
59	MP-6	Z	-0.1	2.5
60	MP-8	Z	-0.08	2.5
61	MP-7	Z	-0.03	2
62	MP-7	Z	-0.04	6
63	MP-6	Z	-0.09	3
64	MP-6	Z	-0.09	3
65	MP-6	Z	-0.09	5
66	MP-6	Z	-0.07	5
67	MP-8	Z	-0.07	5
68	MP-8	Z	-0.11	5
69	MP-10	Z	-0.16	2.5
70	MP-12	Z	-0.14	2.5
71	MP-11	Z	-0.05	2
72	MP-11	Z	-0.05	6
73	MP-10	Z	-0.07	3
74	MP-10	Z	-0.07	3
75	MP-10	Z	-0.07	5
76	MP-10	Z	-0.06	5
77	MP-12	Z	-0.05	5
78	MP-12	Z	-0.09	5
79	MP-2	Z	-0.18	7.5
80	MP-4	Z	-0.16	7.5
81	MP-3	Z	-0.05	4
82	MP-3	Z	-0.06	8
83	MP-6	Z	-0.1	7.5
84	MP-8	Z	-0.08	7.5
85	MP-7	Z	-0.03	4
86	MP-7	Z	-0.04	8
87	MP-10	Z	-0.16	7.5
88	MP-12	Z	-0.14	7.5
89	MP-11	Z	-0.05	4
90	MP-11	Z	-0.05	8



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Member Point Loads (BLC 21 : 45 Wind - Ice)

	Member Label	Direction	Magnitude(k, k-ft)	Location(ft,%)
1	MP-2	X	-0.21	2.5
2	MP-4	X	-0.19	2.5
3	MP-3	X	-0.06	2
4	MP-3	X	-0.07	6
5	MP-2	X	-0.08	3
6	MP-2	X	-0.11	3
7	MP-2	X	-0.12	5
8	MP-2	X	-0.07	5
9	MP-4	X	-0.09	5
10	MP-4	X	-0.14	5
11	MP-2	X	-0.04	1
12	MP-4	X	-0.04	1
13	MP-3	X	-0.06	1
14	MP-6	X	-0.14	2.5
15	MP-8	X	-0.11	2.5
16	MP-7	X	-0.04	2
17	MP-7	X	-0.05	6
18	MP-6	X	-0.13	3
19	MP-6	X	-0.13	3
20	MP-6	X	-0.13	5
21	MP-6	X	-0.09	5
22	MP-8	X	-0.1	5
23	MP-8	X	-0.16	5
24	MP-10	X	-0.26	2.5
25	MP-12	X	-0.23	2.5
26	MP-11	X	-0.08	2
27	MP-11	X	-0.09	6
28	MP-10	X	-0.09	3
29	MP-10	X	-0.09	3
30	MP-10	X	-0.09	5
31	MP-10	X	-0.08	5
32	MP-12	X	-0.06	5
33	MP-12	X	-0.12	5
34	MP-2	X	-0.21	7.5
35	MP-4	X	-0.19	7.5
36	MP-3	X	-0.06	4
37	MP-3	X	-0.07	8
38	MP-6	X	-0.14	7.5
39	MP-8	X	-0.11	7.5
40	MP-7	X	-0.04	4
41	MP-7	X	-0.05	8
42	MP-10	X	-0.26	7.5
43	MP-12	X	-0.23	7.5
44	MP-11	X	-0.08	4
45	MP-11	X	-0.09	8
46	MP-2	Z	-0.21	2.5
47	MP-4	Z	-0.19	2.5
48	MP-3	Z	-0.06	2
49	MP-3	Z	-0.07	6
50	MP-2	Z	-0.08	3
51	MP-2	Z	-0.11	3
52	MP-2	Z	-0.12	5



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Member Point Loads (BLC 21 : 45 Wind - Ice) (Continued)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
53	MP-2	Z	-0.007 5
54	MP-4	Z	-0.009 5
55	MP-4	Z	-0.014 5
56	MP-2	Z	-0.004 1
57	MP-4	Z	-0.004 1
58	MP-3	Z	-0.006 1
59	MP-6	Z	-0.014 2.5
60	MP-8	Z	-0.011 2.5
61	MP-7	Z	-0.004 2
62	MP-7	Z	-0.005 6
63	MP-6	Z	-0.013 3
64	MP-6	Z	-0.013 3
65	MP-6	Z	-0.013 5
66	MP-6	Z	-0.009 5
67	MP-8	Z	-0.01 5
68	MP-8	Z	-0.016 5
69	MP-10	Z	-0.026 2.5
70	MP-12	Z	-0.023 2.5
71	MP-11	Z	-0.008 2
72	MP-11	Z	-0.009 6
73	MP-10	Z	-0.009 3
74	MP-10	Z	-0.009 3
75	MP-10	Z	-0.009 5
76	MP-10	Z	-0.008 5
77	MP-12	Z	-0.006 5
78	MP-12	Z	-0.012 5
79	MP-2	Z	-0.021 7.5
80	MP-4	Z	-0.019 7.5
81	MP-3	Z	-0.006 4
82	MP-3	Z	-0.007 8
83	MP-6	Z	-0.014 7.5
84	MP-8	Z	-0.011 7.5
85	MP-7	Z	-0.004 4
86	MP-7	Z	-0.005 8
87	MP-10	Z	-0.026 7.5
88	MP-12	Z	-0.023 7.5
89	MP-11	Z	-0.008 4
90	MP-11	Z	-0.009 8

Member Point Loads (BLC 22 : 60 Wind - Ice)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
1	MP-2	X	-0.013 2.5
2	MP-4	X	-0.01 2.5
3	MP-3	X	-0.004 2
4	MP-3	X	-0.005 6
5	MP-2	X	-0.006 3
6	MP-2	X	-0.009 3
7	MP-2	X	-0.009 5
8	MP-2	X	-0.006 5
9	MP-4	X	-0.007 5
10	MP-4	X	-0.01 5



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Member Point Loads (BLC 22 : 60 Wind - Ice) (Continued)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
11	MP-2	X	-0.003 1
12	MP-4	X	-0.003 1
13	MP-3	X	-0.004 1
14	MP-6	X	-0.011 2.5
15	MP-8	X	-0.009 2.5
16	MP-7	X	-0.003 2
17	MP-7	X	-0.004 6
18	MP-6	X	-0.009 3
19	MP-6	X	-0.009 3
20	MP-6	X	-0.009 5
21	MP-6	X	-0.006 5
22	MP-8	X	-0.007 5
23	MP-8	X	-0.01 5
24	MP-10	X	-0.02 2.5
25	MP-12	X	-0.018 2.5
26	MP-11	X	-0.006 2
27	MP-11	X	-0.007 6
28	MP-10	X	-0.006 3
29	MP-10	X	-0.006 3
30	MP-10	X	-0.006 5
31	MP-10	X	-0.005 5
32	MP-12	X	-0.004 5
33	MP-12	X	-0.008 5
34	MP-2	X	-0.013 7.5
35	MP-4	X	-0.01 7.5
36	MP-3	X	-0.004 4
37	MP-3	X	-0.005 8
38	MP-6	X	-0.011 7.5
39	MP-8	X	-0.009 7.5
40	MP-7	X	-0.003 4
41	MP-7	X	-0.004 8
42	MP-10	X	-0.02 7.5
43	MP-12	X	-0.018 7.5
44	MP-11	X	-0.006 4
45	MP-11	X	-0.007 8
46	MP-2	Z	-0.022 2.5
47	MP-4	Z	-0.018 2.5
48	MP-3	Z	-0.006 2
49	MP-3	Z	-0.008 6
50	MP-2	Z	-0.01 3
51	MP-2	Z	-0.015 3
52	MP-2	Z	-0.016 5
53	MP-2	Z	-0.01 5
54	MP-4	Z	-0.011 5
55	MP-4	Z	-0.018 5
56	MP-2	Z	-0.005 1
57	MP-4	Z	-0.005 1
58	MP-3	Z	-0.007 1
59	MP-6	Z	-0.019 2.5
60	MP-8	Z	-0.016 2.5
61	MP-7	Z	-0.006 2
62	MP-7	Z	-0.007 6



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Member Point Loads (BLC 22 : 60 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
63	MP-6	Z	-0.15	3
64	MP-6	Z	-0.15	3
65	MP-6	Z	-0.15	5
66	MP-6	Z	-0.1	5
67	MP-8	Z	-0.11	5
68	MP-8	Z	-0.18	5
69	MP-10	Z	-0.35	2.5
70	MP-12	Z	-0.31	2.5
71	MP-11	Z	-0.11	2
72	MP-11	Z	-0.11	6
73	MP-10	Z	-0.11	3
74	MP-10	Z	-0.11	3
75	MP-10	Z	-0.11	5
76	MP-10	Z	-0.09	5
77	MP-12	Z	-0.07	5
78	MP-12	Z	-0.15	5
79	MP-2	Z	-0.22	7.5
80	MP-4	Z	-0.18	7.5
81	MP-3	Z	-0.06	4
82	MP-3	Z	-0.08	8
83	MP-6	Z	-0.19	7.5
84	MP-8	Z	-0.16	7.5
85	MP-7	Z	-0.06	4
86	MP-7	Z	-0.07	8
87	MP-10	Z	-0.35	7.5
88	MP-12	Z	-0.31	7.5
89	MP-11	Z	-0.11	4
90	MP-11	Z	-0.11	8

Member Point Loads (BLC 23 : 90 Wind - Ice)

	Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
1	MP-2	Z	-0.2	2.5
2	MP-4	Z	-0.16	2.5
3	MP-3	Z	-0.06	2
4	MP-3	Z	-0.08	6
5	MP-2	Z	-0.08	3
6	MP-2	Z	-0.12	3
7	MP-2	Z	-0.13	5
8	MP-2	Z	-0.06	5
9	MP-4	Z	-0.1	5
10	MP-4	Z	-0.17	5
11	MP-2	Z	-0.06	1
12	MP-4	Z	-0.06	1
13	MP-3	Z	-0.08	1
14	MP-6	Z	-0.2	2.5
15	MP-8	Z	-0.16	2.5
16	MP-7	Z	-0.06	2
17	MP-7	Z	-0.08	6
18	MP-6	Z	-0.12	3
19	MP-6	Z	-0.12	3
20	MP-6	Z	-0.12	5



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Member Point Loads (BLC 23 : 90 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
21	MP-6	Z	-0.06	5
22	MP-8	Z	-0.1	5
23	MP-8	Z	-0.17	5
24	MP-10	Z	-0.2	2.5
25	MP-12	Z	-0.16	2.5
26	MP-11	Z	-0.06	2
27	MP-11	Z	-0.08	6
28	MP-10	Z	-0.12	3
29	MP-10	Z	-0.12	3
30	MP-10	Z	-0.12	5
31	MP-10	Z	-0.1	5
32	MP-12	Z	-0.08	5
33	MP-12	Z	-0.17	5
34	MP-2	Z	-0.2	7.5
35	MP-4	Z	-0.16	7.5
36	MP-3	Z	-0.06	4
37	MP-3	Z	-0.08	8
38	MP-6	Z	-0.2	7.5
39	MP-8	Z	-0.16	7.5
40	MP-7	Z	-0.06	4
41	MP-7	Z	-0.08	8
42	MP-10	Z	-0.2	7.5
43	MP-12	Z	-0.16	7.5
44	MP-11	Z	-0.06	4
45	MP-11	Z	-0.08	8

Member Point Loads (BLC 24 : 120 Wind - Ice)

	Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
1	MP-2	X	.013	2.5
2	MP-4	X	.01	2.5
3	MP-3	X	.004	2
4	MP-3	X	.005	6
5	MP-2	X	.006	3
6	MP-2	X	.009	3
7	MP-2	X	.009	5
8	MP-2	X	.006	5
9	MP-4	X	.007	5
10	MP-4	X	.01	5
11	MP-2	X	.003	1
12	MP-4	X	.003	1
13	MP-3	X	.004	1
14	MP-6	X	.02	2.5
15	MP-8	X	.018	2.5
16	MP-7	X	.006	2
17	MP-7	X	.007	6
18	MP-6	X	.006	3
19	MP-6	X	.006	3
20	MP-6	X	.006	5
21	MP-6	X	.003	5
22	MP-8	X	.005	5
23	MP-8	X	.008	5



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Member Point Loads (BLC 24 : 120 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
24	MP-10	X	.014	2.5
25	MP-12	X	.012	2.5
26	MP-11	X	.004	2
27	MP-11	X	.005	6
28	MP-10	X	.009	3
29	MP-10	X	.009	3
30	MP-10	X	.009	5
31	MP-10	X	.007	5
32	MP-12	X	.006	5
33	MP-12	X	.01	5
34	MP-2	X	.013	7.5
35	MP-4	X	.01	7.5
36	MP-3	X	.004	4
37	MP-3	X	.005	8
38	MP-6	X	.02	7.5
39	MP-8	X	.018	7.5
40	MP-7	X	.006	4
41	MP-7	X	.007	8
42	MP-10	X	.014	7.5
43	MP-12	X	.012	7.5
44	MP-11	X	.004	4
45	MP-11	X	.005	8
46	MP-2	Z	-.022	2.5
47	MP-4	Z	-.018	2.5
48	MP-3	Z	-.006	2
49	MP-3	Z	-.008	6
50	MP-2	Z	-.01	3
51	MP-2	Z	-.015	3
52	MP-2	Z	-.016	5
53	MP-2	Z	-.01	5
54	MP-4	Z	-.011	5
55	MP-4	Z	-.018	5
56	MP-2	Z	-.005	1
57	MP-4	Z	-.005	1
58	MP-3	Z	-.007	1
59	MP-6	Z	-.035	2.5
60	MP-8	Z	-.031	2.5
61	MP-7	Z	-.011	2
62	MP-7	Z	-.011	6
63	MP-6	Z	-.011	3
64	MP-6	Z	-.011	3
65	MP-6	Z	-.011	5
66	MP-6	Z	-.005	5
67	MP-8	Z	-.009	5
68	MP-8	Z	-.015	5
69	MP-10	Z	-.025	2.5
70	MP-12	Z	-.021	2.5
71	MP-11	Z	-.007	2
72	MP-11	Z	-.009	6
73	MP-10	Z	-.015	3
74	MP-10	Z	-.015	3
75	MP-10	Z	-.015	5



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Member Point Loads (BLC 24 : 120 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
76	MP-10	Z	-.011	5
77	MP-12	Z	-.01	5
78	MP-12	Z	-.018	5
79	MP-2	Z	-.022	7.5
80	MP-4	Z	-.018	7.5
81	MP-3	Z	-.006	4
82	MP-3	Z	-.008	8
83	MP-6	Z	-.035	7.5
84	MP-8	Z	-.031	7.5
85	MP-7	Z	-.011	4
86	MP-7	Z	-.011	8
87	MP-10	Z	-.025	7.5
88	MP-12	Z	-.021	7.5
89	MP-11	Z	-.007	4
90	MP-11	Z	-.009	8

Member Point Loads (BLC 25 : 135 Wind - Ice)

	Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
1	MP-2	X	.021	2.5
2	MP-4	X	.019	2.5
3	MP-3	X	.006	2
4	MP-3	X	.007	6
5	MP-2	X	.008	3
6	MP-2	X	.011	3
7	MP-2	X	.012	5
8	MP-2	X	.007	5
9	MP-4	X	.009	5
10	MP-4	X	.014	5
11	MP-2	X	.004	1
12	MP-4	X	.004	1
13	MP-3	X	.006	1
14	MP-6	X	.029	2.5
15	MP-8	X	.026	2.5
16	MP-7	X	.009	2
17	MP-7	X	.009	6
18	MP-6	X	.009	3
19	MP-6	X	.009	3
20	MP-6	X	.009	5
21	MP-6	X	.005	5
22	MP-8	X	.008	5
23	MP-8	X	.012	5
24	MP-10	X	.017	2.5
25	MP-12	X	.014	2.5
26	MP-11	X	.005	2
27	MP-11	X	.006	6
28	MP-10	X	.013	3
29	MP-10	X	.013	3
30	MP-10	X	.013	5
31	MP-10	X	.01	5
32	MP-12	X	.009	5
33	MP-12	X	.016	5



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Member Point Loads (BLC 25 : 135 Wind - Ice) (Continued)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
34	MP-2	X	.021 7.5
35	MP-4	X	.019 7.5
36	MP-3	X	.006 4
37	MP-3	X	.007 8
38	MP-6	X	.029 7.5
39	MP-8	X	.026 7.5
40	MP-7	X	.009 4
41	MP-7	X	.009 8
42	MP-10	X	.017 7.5
43	MP-12	X	.014 7.5
44	MP-11	X	.005 4
45	MP-11	X	.006 8
46	MP-2	Z	-.021 2.5
47	MP-4	Z	-.019 2.5
48	MP-3	Z	-.006 2
49	MP-3	Z	-.007 6
50	MP-2	Z	-.008 3
51	MP-2	Z	-.011 3
52	MP-2	Z	-.012 5
53	MP-2	Z	-.007 5
54	MP-4	Z	-.009 5
55	MP-4	Z	-.014 5
56	MP-2	Z	-.004 1
57	MP-4	Z	-.004 1
58	MP-3	Z	-.006 1
59	MP-6	Z	-.029 2.5
60	MP-8	Z	-.026 2.5
61	MP-7	Z	-.009 2
62	MP-7	Z	-.009 6
63	MP-6	Z	-.009 3
64	MP-6	Z	-.009 3
65	MP-6	Z	-.009 5
66	MP-6	Z	-.005 5
67	MP-8	Z	-.008 5
68	MP-8	Z	-.012 5
69	MP-10	Z	-.017 2.5
70	MP-12	Z	-.014 2.5
71	MP-11	Z	-.005 2
72	MP-11	Z	-.006 6
73	MP-10	Z	-.013 3
74	MP-10	Z	-.013 3
75	MP-10	Z	-.013 5
76	MP-10	Z	-.01 5
77	MP-12	Z	-.009 5
78	MP-12	Z	-.016 5
79	MP-2	Z	-.021 7.5
80	MP-4	Z	-.019 7.5
81	MP-3	Z	-.006 4
82	MP-3	Z	-.007 8
83	MP-6	Z	-.029 7.5
84	MP-8	Z	-.026 7.5
85	MP-7	Z	-.009 4



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Member Point Loads (BLC 25 : 135 Wind - Ice) (Continued)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
86	MP-7	Z	-.009 8
87	MP-10	Z	-.017 7.5
88	MP-12	Z	-.014 7.5
89	MP-11	Z	-.005 4
90	MP-11	Z	-.006 8

Member Point Loads (BLC 26 : 150 Wind - Ice)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
1	MP-2	X	.031 2.5
2	MP-4	X	.027 2.5
3	MP-3	X	.009 2
4	MP-3	X	.01 6
5	MP-2	X	.008 3
6	MP-2	X	.012 3
7	MP-2	X	.013 5
8	MP-2	X	.007 5
9	MP-4	X	.01 5
10	MP-4	X	.016 5
11	MP-2	X	.005 1
12	MP-4	X	.005 1
13	MP-3	X	.007 1
14	MP-6	X	.033 2.5
15	MP-8	X	.03 2.5
16	MP-7	X	.01 2
17	MP-7	X	.011 6
18	MP-6	X	.012 3
19	MP-6	X	.012 3
20	MP-6	X	.012 5
21	MP-6	X	.007 5
22	MP-8	X	.01 5
23	MP-8	X	.016 5
24	MP-10	X	.018 2.5
25	MP-12	X	.014 2.5
26	MP-11	X	.005 2
27	MP-11	X	.007 6
28	MP-10	X	.016 3
29	MP-10	X	.016 3
30	MP-10	X	.016 5
31	MP-10	X	.012 5
32	MP-12	X	.011 5
33	MP-12	X	.019 5
34	MP-2	X	.031 7.5
35	MP-4	X	.027 7.5
36	MP-3	X	.009 4
37	MP-3	X	.01 8
38	MP-6	X	.033 7.5
39	MP-8	X	.03 7.5
40	MP-7	X	.01 4
41	MP-7	X	.011 8
42	MP-10	X	.018 7.5
43	MP-12	X	.014 7.5



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Member Point Loads (BLC 26 : 150 Wind - Ice) (Continued)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
44	MP-11	X .005	4
45	MP-11	X .007	8
46	MP-2	Z -.018	2.5
47	MP-4	Z -.016	2.5
48	MP-3	Z -.005	2
49	MP-3	Z -.006	6
50	MP-2	Z -.005	3
51	MP-2	Z -.007	3
52	MP-2	Z -.007	5
53	MP-2	Z -.004	5
54	MP-4	Z -.006	5
55	MP-4	Z -.009	5
56	MP-2	Z -.003	1
57	MP-4	Z -.003	1
58	MP-3	Z -.004	1
59	MP-6	Z -.019	2.5
60	MP-8	Z -.017	2.5
61	MP-7	Z -.006	2
62	MP-7	Z -.006	6
63	MP-6	Z -.007	3
64	MP-6	Z -.007	3
65	MP-6	Z -.007	5
66	MP-6	Z -.004	5
67	MP-8	Z -.006	5
68	MP-8	Z -.009	5
69	MP-10	Z -.01	2.5
70	MP-12	Z -.008	2.5
71	MP-11	Z -.003	2
72	MP-11	Z -.004	6
73	MP-10	Z -.009	3
74	MP-10	Z -.009	3
75	MP-10	Z -.009	5
76	MP-10	Z -.007	5
77	MP-12	Z -.007	5
78	MP-12	Z -.011	5
79	MP-2	Z -.018	7.5
80	MP-4	Z -.016	7.5
81	MP-3	Z -.005	4
82	MP-3	Z -.006	8
83	MP-6	Z -.019	7.5
84	MP-8	Z -.017	7.5
85	MP-7	Z -.006	4
86	MP-7	Z -.006	8
87	MP-10	Z -.01	7.5
88	MP-12	Z -.008	7.5
89	MP-11	Z -.003	4
90	MP-11	Z -.004	8

Member Point Loads (BLC 27 : 180 Wind - Ice)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
1	MP-2	X .041	2.5



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Member Point Loads (BLC 27 : 180 Wind - Ice) (Continued)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
2	MP-4	X .037	2.5
3	MP-3	X .012	2
4	MP-3	X .013	6
5	MP-2	X .013	3
6	MP-2	X .019	3
7	MP-2	X .02	5
8	MP-2	X .013	5
9	MP-4	X .014	5
10	MP-4	X .022	5
11	MP-2	X .006	1
12	MP-4	X .006	1
13	MP-3	X .008	1
14	MP-6	X .041	2.5
15	MP-8	X .037	2.5
16	MP-7	X .012	2
17	MP-7	X .013	6
18	MP-6	X .019	3
19	MP-6	X .019	3
20	MP-6	X .013	5
21	MP-6	X .013	5
22	MP-8	X .014	5
23	MP-8	X .022	5
24	MP-10	X .041	2.5
25	MP-12	X .037	2.5
26	MP-11	X .012	2
27	MP-11	X .013	6
28	MP-10	X .019	3
29	MP-10	X .019	3
30	MP-10	X .019	5
31	MP-10	X .014	5
32	MP-12	X .013	5
33	MP-12	X .022	5
34	MP-2	X .041	7.5
35	MP-4	X .037	7.5
36	MP-3	X .012	4
37	MP-3	X .013	8
38	MP-6	X .041	7.5
39	MP-8	X .037	7.5
40	MP-7	X .012	4
41	MP-7	X .013	8
42	MP-10	X .041	7.5
43	MP-12	X .037	7.5
44	MP-11	X .012	4
45	MP-11	X .013	8

Member Point Loads (BLC 28 : 210 Wind - Ice)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
1	MP-2	X .031	2.5
2	MP-4	X .027	2.5
3	MP-3	X .009	2
4	MP-3	X .01	6



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Member Point Loads (BLC 28 : 210 Wind - Ice) (Continued)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft,%)
5	MP-2	X .008	3
6	MP-2	X .012	3
7	MP-2	X .013	5
8	MP-2	X .007	5
9	MP-4	X .01	5
10	MP-4	X .016	5
11	MP-2	X .005	1
12	MP-4	X .005	1
13	MP-3	X .007	1
14	MP-6	X .018	2.5
15	MP-8	X .014	2.5
16	MP-7	X .005	2
17	MP-7	X .007	6
18	MP-6	X .016	3
19	MP-6	X .016	3
20	MP-6	X .016	5
21	MP-6	X .011	5
22	MP-8	X .012	5
23	MP-8	X .019	5
24	MP-10	X .028	2.5
25	MP-12	X .024	2.5
26	MP-11	X .008	2
27	MP-11	X .009	6
28	MP-10	X .012	3
29	MP-10	X .012	3
30	MP-10	X .012	5
31	MP-10	X .01	5
32	MP-12	X .008	5
33	MP-12	X .016	5
34	MP-2	X .031	7.5
35	MP-4	X .027	7.5
36	MP-3	X .009	4
37	MP-3	X .01	8
38	MP-6	X .018	7.5
39	MP-8	X .014	7.5
40	MP-7	X .005	4
41	MP-7	X .007	8
42	MP-10	X .028	7.5
43	MP-12	X .024	7.5
44	MP-11	X .008	4
45	MP-11	X .009	8
46	MP-2	Z .018	2.5
47	MP-4	Z .016	2.5
48	MP-3	Z .005	2
49	MP-3	Z .006	6
50	MP-2	Z .005	3
51	MP-2	Z .007	3
52	MP-2	Z .007	5
53	MP-2	Z .004	5
54	MP-4	Z .006	5
55	MP-4	Z .009	5
56	MP-2	Z .003	1



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Member Point Loads (BLC 28 : 210 Wind - Ice) (Continued)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft,%)
57	MP-4	Z .003	1
58	MP-3	Z .004	1
59	MP-6	Z .01	2.5
60	MP-8	Z .008	2.5
61	MP-7	Z .003	2
62	MP-7	Z .004	6
63	MP-6	Z .009	3
64	MP-6	Z .009	3
65	MP-6	Z .009	5
66	MP-6	Z .007	5
67	MP-8	Z .007	5
68	MP-8	Z .011	5
69	MP-10	Z .016	2.5
70	MP-12	Z .014	2.5
71	MP-11	Z .005	2
72	MP-11	Z .005	6
73	MP-10	Z .007	3
74	MP-10	Z .007	3
75	MP-10	Z .007	5
76	MP-10	Z .006	5
77	MP-12	Z .005	5
78	MP-12	Z .009	5
79	MP-2	Z .018	7.5
80	MP-4	Z .016	7.5
81	MP-3	Z .005	4
82	MP-3	Z .006	8
83	MP-6	Z .01	7.5
84	MP-8	Z .008	7.5
85	MP-7	Z .003	4
86	MP-7	Z .004	8
87	MP-10	Z .016	7.5
88	MP-12	Z .014	7.5
89	MP-11	Z .005	4
90	MP-11	Z .005	8

Member Point Loads (BLC 29 : 225 Wind - Ice)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft,%)
1	MP-2	X .021	2.5
2	MP-4	X .019	2.5
3	MP-3	X .006	2
4	MP-3	X .007	6
5	MP-2	X .008	3
6	MP-2	X .011	3
7	MP-2	X .012	5
8	MP-2	X .007	5
9	MP-4	X .009	5
10	MP-4	X .014	5
11	MP-2	X .004	1
12	MP-4	X .004	1
13	MP-3	X .006	1
14	MP-6	X .014	2.5



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Member Point Loads (BLC 29 : 225 Wind - Ice) (Continued)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
15	MP-8	X	.011 2.5
16	MP-7	X	.004 2
17	MP-7	X	.005 6
18	MP-6	X	.013 3
19	MP-6	X	.013 3
20	MP-6	X	.013 5
21	MP-6	X	.009 5
22	MP-8	X	.01 5
23	MP-8	X	.016 5
24	MP-10	X	.026 2.5
25	MP-12	X	.023 2.5
26	MP-11	X	.008 2
27	MP-11	X	.009 6
28	MP-10	X	.009 3
29	MP-10	X	.009 3
30	MP-10	X	.009 5
31	MP-10	X	.008 5
32	MP-12	X	.006 5
33	MP-12	X	.012 5
34	MP-2	X	.021 7.5
35	MP-4	X	.019 7.5
36	MP-3	X	.006 4
37	MP-3	X	.007 8
38	MP-6	X	.014 7.5
39	MP-8	X	.011 7.5
40	MP-7	X	.004 4
41	MP-7	X	.005 8
42	MP-10	X	.026 7.5
43	MP-12	X	.023 7.5
44	MP-11	X	.008 4
45	MP-11	X	.009 8
46	MP-2	Z	.021 2.5
47	MP-4	Z	.019 2.5
48	MP-3	Z	.006 2
49	MP-3	Z	.007 6
50	MP-2	Z	.008 3
51	MP-2	Z	.011 3
52	MP-2	Z	.012 5
53	MP-2	Z	.007 5
54	MP-4	Z	.009 5
55	MP-4	Z	.014 5
56	MP-2	Z	.004 1
57	MP-4	Z	.004 1
58	MP-3	Z	.006 1
59	MP-6	Z	.014 2.5
60	MP-8	Z	.011 2.5
61	MP-7	Z	.004 2
62	MP-7	Z	.005 6
63	MP-6	Z	.013 3
64	MP-6	Z	.013 3
65	MP-6	Z	.013 5
66	MP-6	Z	.009 5



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Member Point Loads (BLC 29 : 225 Wind - Ice) (Continued)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
67	MP-8	Z	.01 5
68	MP-8	Z	.016 5
69	MP-10	Z	.026 2.5
70	MP-12	Z	.023 2.5
71	MP-11	Z	.008 2
72	MP-11	Z	.009 6
73	MP-10	Z	.009 3
74	MP-10	Z	.009 3
75	MP-10	Z	.009 5
76	MP-10	Z	.008 5
77	MP-12	Z	.006 5
78	MP-12	Z	.012 5
79	MP-2	Z	.021 7.5
80	MP-4	Z	.019 7.5
81	MP-3	Z	.006 4
82	MP-3	Z	.007 8
83	MP-6	Z	.014 7.5
84	MP-8	Z	.011 7.5
85	MP-7	Z	.004 4
86	MP-7	Z	.005 8
87	MP-10	Z	.026 7.5
88	MP-12	Z	.023 7.5
89	MP-11	Z	.008 4
90	MP-11	Z	.009 8

Member Point Loads (BLC 30 : 240 Wind - Ice)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
1	MP-2	X	.013 2.5
2	MP-4	X	.01 2.5
3	MP-3	X	.004 2
4	MP-3	X	.005 6
5	MP-2	X	.006 3
6	MP-2	X	.009 3
7	MP-2	X	.009 5
8	MP-2	X	.006 5
9	MP-4	X	.007 5
10	MP-4	X	.01 5
11	MP-2	X	.003 1
12	MP-4	X	.003 1
13	MP-3	X	.004 1
14	MP-6	X	.011 2.5
15	MP-8	X	.009 2.5
16	MP-7	X	.003 2
17	MP-7	X	.004 6
18	MP-6	X	.009 3
19	MP-6	X	.009 3
20	MP-6	X	.009 5
21	MP-6	X	.006 5
22	MP-8	X	.007 5
23	MP-8	X	.01 5
24	MP-10	X	.02 2.5



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Member Point Loads (BLC 30 : 240 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude(k, k-ft)	Location(ft,%)
25	MP-12	X	.018	2.5
26	MP-11	X	.006	2
27	MP-11	X	.007	6
28	MP-10	X	.006	3
29	MP-10	X	.006	3
30	MP-10	X	.006	5
31	MP-10	X	.005	5
32	MP-12	X	.004	5
33	MP-12	X	.008	5
34	MP-2	X	.013	7.5
35	MP-4	X	.01	7.5
36	MP-3	X	.004	4
37	MP-3	X	.005	8
38	MP-6	X	.011	7.5
39	MP-8	X	.009	7.5
40	MP-7	X	.003	4
41	MP-7	X	.004	8
42	MP-10	X	.02	7.5
43	MP-12	X	.018	7.5
44	MP-11	X	.006	4
45	MP-11	X	.007	8
46	MP-2	Z	.022	2.5
47	MP-4	Z	.018	2.5
48	MP-3	Z	.006	2
49	MP-3	Z	.008	6
50	MP-2	Z	.01	3
51	MP-2	Z	.015	3
52	MP-2	Z	.016	5
53	MP-2	Z	.01	5
54	MP-4	Z	.011	5
55	MP-4	Z	.018	5
56	MP-2	Z	.005	1
57	MP-4	Z	.005	1
58	MP-3	Z	.007	1
59	MP-6	Z	.019	2.5
60	MP-8	Z	.016	2.5
61	MP-7	Z	.006	2
62	MP-7	Z	.007	6
63	MP-6	Z	.015	3
64	MP-6	Z	.015	3
65	MP-6	Z	.015	5
66	MP-6	Z	.01	5
67	MP-8	Z	.011	5
68	MP-8	Z	.018	5
69	MP-10	Z	.035	2.5
70	MP-12	Z	.031	2.5
71	MP-11	Z	.011	2
72	MP-11	Z	.011	6
73	MP-10	Z	.011	3
74	MP-10	Z	.011	3
75	MP-10	Z	.011	5
76	MP-10	Z	.009	5



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Member Point Loads (BLC 30 : 240 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude(k, k-ft)	Location(ft,%)
77	MP-12	Z	.007	5
78	MP-12	Z	.015	5
79	MP-2	Z	.022	7.5
80	MP-4	Z	.018	7.5
81	MP-3	Z	.006	4
82	MP-3	Z	.008	8
83	MP-6	Z	.019	7.5
84	MP-8	Z	.016	7.5
85	MP-7	Z	.006	4
86	MP-7	Z	.007	8
87	MP-10	Z	.035	7.5
88	MP-12	Z	.031	7.5
89	MP-11	Z	.011	4
90	MP-11	Z	.011	8

Member Point Loads (BLC 31 : 270 Wind - Ice)

	Member Label	Direction	Magnitude(k, k-ft)	Location(ft,%)
1	MP-2	Z	.02	2.5
2	MP-4	Z	.016	2.5
3	MP-3	Z	.006	2
4	MP-3	Z	.008	6
5	MP-2	Z	.008	3
6	MP-2	Z	.012	3
7	MP-2	Z	.013	5
8	MP-2	Z	.006	5
9	MP-4	Z	.01	5
10	MP-4	Z	.017	5
11	MP-2	Z	.006	1
12	MP-4	Z	.006	1
13	MP-3	Z	.008	1
14	MP-6	Z	.02	2.5
15	MP-8	Z	.016	2.5
16	MP-7	Z	.006	2
17	MP-7	Z	.008	6
18	MP-6	Z	.012	3
19	MP-6	Z	.012	3
20	MP-6	Z	.012	5
21	MP-6	Z	.006	5
22	MP-8	Z	.01	5
23	MP-8	Z	.017	5
24	MP-10	Z	.02	2.5
25	MP-12	Z	.016	2.5
26	MP-11	Z	.006	2
27	MP-11	Z	.008	6
28	MP-10	Z	.012	3
29	MP-10	Z	.012	3
30	MP-10	Z	.012	5
31	MP-10	Z	.01	5
32	MP-12	Z	.008	5
33	MP-12	Z	.017	5
34	MP-2	Z	.02	7.5



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Member Point Loads (BLC 31 : 270 Wind - Ice) (Continued)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft,%)
35	MP-4	Z	.016 7.5
36	MP-3	Z	.006 4
37	MP-3	Z	.008 8
38	MP-6	Z	.02 7.5
39	MP-8	Z	.016 7.5
40	MP-7	Z	.006 4
41	MP-7	Z	.008 8
42	MP-10	Z	.02 7.5
43	MP-12	Z	.016 7.5
44	MP-11	Z	.006 4
45	MP-11	Z	.008 8

Member Point Loads (BLC 32 : 300 Wind - Ice)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft,%)
1	MP-2	X	-.013 2.5
2	MP-4	X	-.01 2.5
3	MP-3	X	-.004 2
4	MP-3	X	-.005 6
5	MP-2	X	-.006 3
6	MP-2	X	-.009 3
7	MP-2	X	-.009 5
8	MP-2	X	-.006 5
9	MP-4	X	-.007 5
10	MP-4	X	-.01 5
11	MP-2	X	-.003 1
12	MP-4	X	-.003 1
13	MP-3	X	-.004 1
14	MP-6	X	-.02 2.5
15	MP-8	X	-.018 2.5
16	MP-7	X	-.006 2
17	MP-7	X	-.007 6
18	MP-6	X	-.006 3
19	MP-6	X	-.006 3
20	MP-6	X	-.006 5
21	MP-6	X	-.003 5
22	MP-8	X	-.005 5
23	MP-8	X	-.008 5
24	MP-10	X	-.014 2.5
25	MP-12	X	-.012 2.5
26	MP-11	X	-.004 2
27	MP-11	X	-.005 6
28	MP-10	X	-.009 3
29	MP-10	X	-.009 3
30	MP-10	X	-.009 5
31	MP-10	X	-.007 5
32	MP-12	X	-.006 5
33	MP-12	X	-.01 5
34	MP-2	X	-.013 7.5
35	MP-4	X	-.01 7.5
36	MP-3	X	-.004 4
37	MP-3	X	-.005 8



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Member Point Loads (BLC 32 : 300 Wind - Ice) (Continued)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft,%)
38	MP-6	X	-.02 7.5
39	MP-8	X	-.018 7.5
40	MP-7	X	-.006 4
41	MP-7	X	-.007 8
42	MP-10	X	-.014 7.5
43	MP-12	X	-.012 7.5
44	MP-11	X	-.004 4
45	MP-11	X	-.005 8
46	MP-2	Z	.022 2.5
47	MP-4	Z	.018 2.5
48	MP-3	Z	.006 2
49	MP-3	Z	.008 6
50	MP-2	Z	.01 3
51	MP-2	Z	.015 3
52	MP-2	Z	.016 5
53	MP-2	Z	.01 5
54	MP-4	Z	.011 5
55	MP-4	Z	.018 5
56	MP-2	Z	.005 1
57	MP-4	Z	.007 1
58	MP-3	Z	.007 1
59	MP-6	Z	.035 2.5
60	MP-8	Z	.031 2.5
61	MP-7	Z	.011 2
62	MP-7	Z	.011 6
63	MP-6	Z	.011 3
64	MP-6	Z	.011 3
65	MP-6	Z	.011 5
66	MP-6	Z	.005 5
67	MP-8	Z	.009 5
68	MP-8	Z	.015 5
69	MP-10	Z	.025 2.5
70	MP-12	Z	.021 2.5
71	MP-11	Z	.007 2
72	MP-11	Z	.009 6
73	MP-10	Z	.015 3
74	MP-10	Z	.015 3
75	MP-10	Z	.015 5
76	MP-10	Z	.011 5
77	MP-12	Z	.01 5
78	MP-12	Z	.018 5
79	MP-2	Z	.022 7.5
80	MP-4	Z	.018 7.5
81	MP-3	Z	.006 4
82	MP-3	Z	.008 8
83	MP-6	Z	.035 7.5
84	MP-8	Z	.031 7.5
85	MP-7	Z	.011 4
86	MP-7	Z	.011 8
87	MP-10	Z	.025 7.5
88	MP-12	Z	.021 7.5
89	MP-11	Z	.007 4



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Member Point Loads (BLC 32 : 300 Wind - Ice) (Continued)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft,%)
90 MP-11	Z	.009	8

Member Point Loads (BLC 33 : 315 Wind - Ice)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft,%)
1 MP-2	X	-.021	2.5
2 MP-4	X	-.019	2.5
3 MP-3	X	-.006	2
4 MP-3	X	-.007	6
5 MP-2	X	-.008	3
6 MP-2	X	-.011	3
7 MP-2	X	-.012	5
8 MP-2	X	-.007	5
9 MP-4	X	-.009	5
10 MP-4	X	-.014	5
11 MP-2	X	-.004	1
12 MP-4	X	-.004	1
13 MP-3	X	-.006	1
14 MP-6	X	-.029	2.5
15 MP-8	X	-.026	2.5
16 MP-7	X	-.009	2
17 MP-7	X	-.009	6
18 MP-6	X	-.009	3
19 MP-6	X	-.009	3
20 MP-6	X	-.009	5
21 MP-6	X	-.005	5
22 MP-8	X	-.008	5
23 MP-8	X	-.012	5
24 MP-10	X	-.017	2.5
25 MP-12	X	-.014	2.5
26 MP-11	X	-.005	2
27 MP-11	X	-.006	6
28 MP-10	X	-.013	3
29 MP-10	X	-.013	3
30 MP-10	X	-.013	5
31 MP-10	X	-.01	5
32 MP-12	X	-.009	5
33 MP-12	X	-.016	5
34 MP-2	X	-.021	7.5
35 MP-4	X	-.019	7.5
36 MP-3	X	-.006	4
37 MP-3	X	-.007	8
38 MP-6	X	-.029	7.5
39 MP-8	X	-.026	7.5
40 MP-7	X	-.009	4
41 MP-7	X	-.009	8
42 MP-10	X	-.017	7.5
43 MP-12	X	-.014	7.5
44 MP-11	X	-.005	4
45 MP-11	X	-.006	8
46 MP-2	Z	.021	2.5
47 MP-4	Z	.019	2.5



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Member Point Loads (BLC 33 : 315 Wind - Ice) (Continued)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft,%)
48 MP-3	Z	.006	2
49 MP-3	Z	.007	6
50 MP-2	Z	.008	3
51 MP-2	Z	.011	3
52 MP-2	Z	.012	5
53 MP-2	Z	.007	5
54 MP-4	Z	.009	5
55 MP-4	Z	.014	5
56 MP-2	Z	.004	1
57 MP-4	Z	.004	1
58 MP-3	Z	.006	1
59 MP-6	Z	.029	2.5
60 MP-8	Z	.026	2.5
61 MP-7	Z	.009	2
62 MP-7	Z	.009	6
63 MP-6	Z	.009	3
64 MP-6	Z	.009	3
65 MP-6	Z	.009	5
66 MP-6	Z	.005	5
67 MP-8	Z	.008	5
68 MP-8	Z	.012	5
69 MP-10	Z	.017	2.5
70 MP-12	Z	.014	2.5
71 MP-11	Z	.005	2
72 MP-11	Z	.006	6
73 MP-10	Z	.013	3
74 MP-10	Z	.013	3
75 MP-10	Z	.013	5
76 MP-10	Z	.01	5
77 MP-12	Z	.009	5
78 MP-12	Z	.016	5
79 MP-2	Z	.021	7.5
80 MP-4	Z	.019	7.5
81 MP-3	Z	.006	4
82 MP-3	Z	.007	8
83 MP-6	Z	.029	7.5
84 MP-8	Z	.026	7.5
85 MP-7	Z	.009	4
86 MP-7	Z	.009	8
87 MP-10	Z	.017	7.5
88 MP-12	Z	.014	7.5
89 MP-11	Z	.005	4
90 MP-11	Z	.006	8

Member Point Loads (BLC 34 : 330 Wind - Ice)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft,%)
1 MP-2	X	-.031	2.5
2 MP-4	X	-.027	2.5
3 MP-3	X	-.009	2
4 MP-3	X	-.01	6
5 MP-2	X	-.008	3



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Member Point Loads (BLC 34 : 330 Wind - Ice) (Continued)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
6	MP-2	X	-0.12	3
7	MP-2	X	-0.13	5
8	MP-2	X	-0.07	5
9	MP-4	X	-0.1	5
10	MP-4	X	-0.16	5
11	MP-2	X	-0.05	1
12	MP-4	X	-0.05	1
13	MP-3	X	-0.07	1
14	MP-6	X	-0.33	2.5
15	MP-8	X	-0.3	2.5
16	MP-7	X	-0.1	2
17	MP-7	X	-0.11	6
18	MP-6	X	-0.12	3
19	MP-6	X	-0.12	3
20	MP-6	X	-0.12	5
21	MP-6	X	-0.07	5
22	MP-8	X	-0.1	5
23	MP-8	X	-0.16	5
24	MP-10	X	-0.18	2.5
25	MP-12	X	-0.14	2.5
26	MP-11	X	-0.05	2
27	MP-11	X	-0.07	6
28	MP-10	X	-0.16	3
29	MP-10	X	-0.16	3
30	MP-10	X	-0.16	5
31	MP-10	X	-0.12	5
32	MP-12	X	-0.11	5
33	MP-12	X	-0.19	5
34	MP-2	X	-0.31	7.5
35	MP-4	X	-0.27	7.5
36	MP-3	X	-0.09	4
37	MP-3	X	-0.1	8
38	MP-6	X	-0.33	7.5
39	MP-8	X	-0.3	7.5
40	MP-7	X	-0.1	4
41	MP-7	X	-0.11	8
42	MP-10	X	-0.18	7.5
43	MP-12	X	-0.14	7.5
44	MP-11	X	-0.05	4
45	MP-11	X	-0.07	8
46	MP-2	Z	0.18	2.5
47	MP-4	Z	0.16	2.5
48	MP-3	Z	0.05	2
49	MP-3	Z	0.06	6
50	MP-2	Z	0.05	3
51	MP-2	Z	0.07	3
52	MP-2	Z	0.07	5
53	MP-2	Z	0.04	5
54	MP-4	Z	0.06	5
55	MP-4	Z	0.09	5
56	MP-2	Z	0.03	1
57	MP-4	Z	0.03	1



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Member Point Loads (BLC 34 : 330 Wind - Ice) (Continued)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
58	MP-3	Z	0.04	1
59	MP-6	Z	0.19	2.5
60	MP-8	Z	0.17	2.5
61	MP-7	Z	0.06	2
62	MP-7	Z	0.06	6
63	MP-6	Z	0.07	3
64	MP-6	Z	0.07	3
65	MP-6	Z	0.07	5
66	MP-6	Z	0.04	5
67	MP-8	Z	0.06	5
68	MP-8	Z	0.09	5
69	MP-10	Z	0.1	2.5
70	MP-12	Z	0.08	2.5
71	MP-11	Z	0.03	2
72	MP-11	Z	0.04	6
73	MP-10	Z	0.09	3
74	MP-10	Z	0.09	3
75	MP-10	Z	0.09	5
76	MP-10	Z	0.07	5
77	MP-12	Z	0.07	5
78	MP-12	Z	0.11	5
79	MP-2	Z	0.18	7.5
80	MP-4	Z	0.16	7.5
81	MP-3	Z	0.05	4
82	MP-3	Z	0.06	8
83	MP-6	Z	0.19	7.5
84	MP-8	Z	0.17	7.5
85	MP-7	Z	0.06	4
86	MP-7	Z	0.06	8
87	MP-10	Z	0.1	7.5
88	MP-12	Z	0.08	7.5
89	MP-11	Z	0.03	4
90	MP-11	Z	0.04	8

Member Point Loads (BLC 37 : Seismic Load X)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
1	MP-2	X	-0.65	2.5
2	MP-4	X	-0.32	2.5
3	MP-3	X	-0.22	2
4	MP-3	X	-0.41	6
5	MP-2	X	-0.6	3
6	MP-2	X	-0.53	3
7	MP-2	X	-0.55	5
8	MP-2	X	-0.43	5
9	MP-4	X	-0.71	5
10	MP-4	X	-0.77	5
11	MP-2	X	-0.19	1
12	MP-4	X	-0.19	1
13	MP-3	X	-0.18	1
14	MP-6	X	-0.65	2.5
15	MP-8	X	-0.32	2.5



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Member Point Loads (BLC 37 : Seismic Load X) (Continued)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
16	MP-7	X	-0.22 2
17	MP-7	X	-0.41 6
18	MP-6	X	-0.53 3
19	MP-6	X	-0.53 3
20	MP-6	X	-0.53 5
21	MP-6	X	-0.43 5
22	MP-8	X	-0.71 5
23	MP-8	X	-0.77 5
24	MP-10	X	-0.65 2.5
25	MP-12	X	-0.32 2.5
26	MP-11	X	-0.22 2
27	MP-11	X	-0.41 6
28	MP-10	X	-0.53 3
29	MP-10	X	-0.53 3
30	MP-10	X	-0.53 5
31	MP-10	X	-0.71 5
32	MP-12	X	-0.06 5
33	MP-12	X	-0.77 5
34	MP-2	X	-0.65 7.5
35	MP-4	X	-0.32 7.5
36	MP-3	X	-0.22 4
37	MP-3	X	-0.41 8
38	MP-6	X	-0.65 7.5
39	MP-8	X	-0.32 7.5
40	MP-7	X	-0.22 4
41	MP-7	X	-0.41 8
42	MP-10	X	-0.65 7.5
43	MP-12	X	-0.32 7.5
44	MP-11	X	-0.22 4
45	MP-11	X	-0.41 8

Member Point Loads (BLC 38 : Seismic Load Z)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
1	MP-2	Z	-0.65 2.5
2	MP-4	Z	-0.32 2.5
3	MP-3	Z	-0.22 2
4	MP-3	Z	-0.41 6
5	MP-2	Z	-0.06 3
6	MP-2	Z	-0.53 3
7	MP-2	Z	-0.55 5
8	MP-2	Z	-0.43 5
9	MP-4	Z	-0.71 5
10	MP-4	Z	-0.77 5
11	MP-2	Z	-0.19 1
12	MP-4	Z	-0.19 1
13	MP-3	Z	-0.18 1
14	MP-6	Z	-0.65 2.5
15	MP-8	Z	-0.32 2.5
16	MP-7	Z	-0.22 2
17	MP-7	Z	-0.41 6
18	MP-6	Z	-0.53 3



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Member Point Loads (BLC 38 : Seismic Load Z) (Continued)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
19	MP-6	Z	-0.53 3
20	MP-6	Z	-0.53 5
21	MP-6	Z	-0.43 5
22	MP-8	Z	-0.71 5
23	MP-8	Z	-0.77 5
24	MP-10	Z	-0.65 2.5
25	MP-12	Z	-0.32 2.5
26	MP-11	Z	-0.22 2
27	MP-11	Z	-0.41 6
28	MP-10	Z	-0.53 3
29	MP-10	Z	-0.53 3
30	MP-10	Z	-0.53 5
31	MP-10	Z	-0.71 5
32	MP-12	Z	-0.06 5
33	MP-12	Z	-0.77 5
34	MP-2	Z	-0.65 7.5
35	MP-4	Z	-0.32 7.5
36	MP-3	Z	-0.22 4
37	MP-3	Z	-0.41 8
38	MP-6	Z	-0.65 7.5
39	MP-8	Z	-0.32 7.5
40	MP-7	Z	-0.22 4
41	MP-7	Z	-0.41 8
42	MP-10	Z	-0.65 7.5
43	MP-12	Z	-0.32 7.5
44	MP-11	Z	-0.22 4
45	MP-11	Z	-0.41 8

Member Distributed Loads (BLC 2 : 0 Wind - No Ice)

Member Label	Direction	Start Magnitude(lb/ft, ...)	End Magnitude(lb/ft, F...)	Start Location(ft, %)	End Location(ft, %)
1	FFTH-1	X	-0.01	-0.01	0 %100
2	FFTH-2	X	-0.005	-0.005	0 %100
3	FFTH-3	X	-0.005	-0.005	0 %100
4	GSI-1A	X	-0.003	-0.003	0 %100
5	GSI-1B	X	-0.003	-0.003	0 %100
6	GSI-2A	X	-0.007	-0.007	0 %100
7	GSI-2B	X	-0.005	-0.005	0 %100
8	GSI-3A	X	-0.003	-0.003	0 %100
9	GSI-3B	X	-0.003	-0.003	0 %100
10	INT1	X	-0.007	-0.007	0 %100
11	INT2	X	-0.003	-0.003	0 %100
12	INT3	X	-0.003	-0.003	0 %100
13	INT4	X	-0.003	-0.003	0 %100
14	INT5	X	-0.003	-0.003	0 %100
15	INT6	X	-0.007	-0.007	0 %100
16	MP-1	X	-0.009	-0.009	0 %100
17	MP-2	X	-0.009	-0.009	0 %100
18	MP-3	X	-0.009	-0.009	0 %100
19	MP-4	X	-0.009	-0.009	0 %100
20	MP-5	X	-0.009	-0.009	0 %100



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Member Distributed Loads (BLC 2 : 0 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F. ...)	Start Location(ft. %)	End Location(ft. %)	
21	MP-6	X	-0.09	-0.09	0	%100
22	MP-7	X	-0.09	-0.09	0	%100
23	MP-8	X	-0.09	-0.09	0	%100
24	MP-9	X	-0.09	-0.09	0	%100
25	MP-10	X	-0.09	-0.09	0	%100
26	MP-11	X	-0.09	-0.09	0	%100
27	MP-12	X	-0.09	-0.09	0	%100
28	SA-1	X	-0.17	-0.17	0	%100
29	SA-2	X	0	0	0	%100
30	SA-3	X	-0.17	-0.17	0	%100
31	SR-1	X	-0.09	-0.09	0	%100
32	SR-2	X	-0.04	-0.04	0	%100
33	SR-3	X	-0.04	-0.04	0	%100
34	SRC-1	X	-0.03	-0.03	0	%100
35	SRC-2	X	-0.06	-0.06	0	%100
36	SRC-3	X	-0.03	-0.03	0	%100

Member Distributed Loads (BLC 3 : 30 Wind - No Ice)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F. ...)	Start Location(ft. %)	End Location(ft. %)	
1	FFTH-1	X	-0.07	-0.07	0	%100
2	FFTH-2	X	0	0	0	%100
3	FFTH-3	X	-0.07	-0.07	0	%100
4	GSI-1A	X	-0.04	-0.04	0	%100
5	GSI-1B	X	-0.04	-0.04	0	%100
6	GSI-2A	X	-0.06	-0.06	0	%100
7	GSI-2B	X	-0.04	-0.04	0	%100
8	GSI-3A	X	0	0	0	%100
9	GSI-3B	X	0	0	0	%100
10	INT1	X	-0.05	-0.05	0	%100
11	INT2	X	-1e-6	-1e-6	0	%100
12	INT3	X	-1e-6	-1e-6	0	%100
13	INT4	X	-0.04	-0.04	0	%100
14	INT5	X	-0.04	-0.04	0	%100
15	INT6	X	-0.05	-0.05	0	%100
16	MP-1	X	-0.08	-0.08	0	%100
17	MP-2	X	-0.08	-0.08	0	%100
18	MP-3	X	-0.08	-0.08	0	%100
19	MP-4	X	-0.08	-0.08	0	%100
20	MP-5	X	-0.08	-0.08	0	%100
21	MP-6	X	-0.08	-0.08	0	%100
22	MP-7	X	-0.08	-0.08	0	%100
23	MP-8	X	-0.08	-0.08	0	%100
24	MP-9	X	-0.08	-0.08	0	%100
25	MP-10	X	-0.08	-0.08	0	%100
26	MP-11	X	-0.08	-0.08	0	%100
27	MP-12	X	-0.08	-0.08	0	%100
28	SA-1	X	-0.08	-0.08	0	%100
29	SA-2	X	-0.07	-0.07	0	%100
30	SA-3	X	-0.17	-0.17	0	%100
31	SR-1	X	-0.07	-0.07	0	%100
32	SR-2	X	0	0	0	%100



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Member Distributed Loads (BLC 3 : 30 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F. ...)	Start Location(ft. %)	End Location(ft. %)	
33	SR-3	X	-0.07	-0.07	0	%100
34	SRC-1	X	-0.04	-0.04	0	%100
35	SRC-2	X	-0.05	-0.05	0	%100
36	SRC-3	X	0	0	0	%100
37	FFTH-1	Z	-0.04	-0.04	0	%100
38	FFTH-2	Z	0	0	0	%100
39	FFTH-3	Z	-0.04	-0.04	0	%100
40	GSI-1A	Z	-0.03	-0.03	0	%100
41	GSI-1B	Z	-0.02	-0.02	0	%100
42	GSI-2A	Z	-0.03	-0.03	0	%100
43	GSI-2B	Z	-0.02	-0.02	0	%100
44	GSI-3A	Z	0	0	0	%100
45	GSI-3B	Z	0	0	0	%100
46	INT1	Z	-0.02	-0.02	0	%100
47	INT2	Z	-1e-6	-1e-6	0	%100
48	INT3	Z	-1e-6	-1e-6	0	%100
49	INT4	Z	-0.03	-0.03	0	%100
50	INT5	Z	-0.03	-0.03	0	%100
51	INT6	Z	-0.02	-0.02	0	%100
52	MP-1	Z	-0.04	-0.04	0	%100
53	MP-2	Z	-0.04	-0.04	0	%100
54	MP-3	Z	-0.04	-0.04	0	%100
55	MP-4	Z	-0.04	-0.04	0	%100
56	MP-5	Z	-0.04	-0.04	0	%100
57	MP-6	Z	-0.04	-0.04	0	%100
58	MP-7	Z	-0.04	-0.04	0	%100
59	MP-8	Z	-0.04	-0.04	0	%100
60	MP-9	Z	-0.04	-0.04	0	%100
61	MP-10	Z	-0.04	-0.04	0	%100
62	MP-11	Z	-0.04	-0.04	0	%100
63	MP-12	Z	-0.04	-0.04	0	%100
64	SA-1	Z	-0.04	-0.04	0	%100
65	SA-2	Z	-0.05	-0.05	0	%100
66	SA-3	Z	-0.09	-0.09	0	%100
67	SR-1	Z	-0.04	-0.04	0	%100
68	SR-2	Z	0	0	0	%100
69	SR-3	Z	-0.04	-0.04	0	%100
70	SRC-1	Z	-0.03	-0.03	0	%100
71	SRC-2	Z	-0.03	-0.03	0	%100
72	SRC-3	Z	0	0	0	%100

Member Distributed Loads (BLC 4 : 45 Wind - No Ice)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F. ...)	Start Location(ft. %)	End Location(ft. %)	
1	FFTH-1	X	-0.05	-0.05	0	%100
2	FFTH-2	X	-0.02	-0.02	0	%100
3	FFTH-3	X	-0.07	-0.07	0	%100
4	GSI-1A	X	-0.04	-0.04	0	%100
5	GSI-1B	X	-0.04	-0.04	0	%100
6	GSI-2A	X	-0.04	-0.04	0	%100
7	GSI-2B	X	-0.03	-0.03	0	%100
8	GSI-3A	X	-0.01	-0.01	0	%100



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Member Distributed Loads (BLC 4 : 45 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[lb/ft. ...]	End Magnitude[lb/ft. F. ...]	Start Location[ft. %]	End Location[ft. %]	
9	GSI-3B	X	-0.01	-0.01	0	%100
10	INT1	X	-0.03	-0.03	0	%100
11	INT2	X	-0.01	-0.01	0	%100
12	INT3	X	-0.01	-0.01	0	%100
13	INT4	X	-0.04	-0.04	0	%100
14	INT5	X	-0.04	-0.04	0	%100
15	INT6	X	-0.03	-0.03	0	%100
16	MP-1	X	-0.06	-0.06	0	%100
17	MP-2	X	-0.06	-0.06	0	%100
18	MP-3	X	-0.06	-0.06	0	%100
19	MP-4	X	-0.06	-0.06	0	%100
20	MP-5	X	-0.06	-0.06	0	%100
21	MP-6	X	-0.06	-0.06	0	%100
22	MP-7	X	-0.06	-0.06	0	%100
23	MP-8	X	-0.06	-0.06	0	%100
24	MP-9	X	-0.06	-0.06	0	%100
25	MP-10	X	-0.06	-0.06	0	%100
26	MP-11	X	-0.06	-0.06	0	%100
27	MP-12	X	-0.06	-0.06	0	%100
28	SA-1	X	-0.04	-0.04	0	%100
29	SA-2	X	-0.08	-0.08	0	%100
30	SA-3	X	-0.13	-0.13	0	%100
31	SR-1	X	-0.04	-0.04	0	%100
32	SR-2	X	-0.02	-0.02	0	%100
33	SR-3	X	-0.06	-0.06	0	%100
34	SRC-1	X	-0.04	-0.04	0	%100
35	SRC-2	X	-0.03	-0.03	0	%100
36	SRC-3	X	-0.00986	-0.00986	0	%100
37	FFTH-1	Z	-0.05	-0.05	0	%100
38	FFTH-2	Z	-0.02	-0.02	0	%100
39	FFTH-3	Z	-0.07	-0.07	0	%100
40	GSI-1A	Z	-0.05	-0.05	0	%100
41	GSI-1B	Z	-0.04	-0.04	0	%100
42	GSI-2A	Z	-0.04	-0.04	0	%100
43	GSI-2B	Z	-0.03	-0.03	0	%100
44	GSI-3A	Z	-0.01	-0.01	0	%100
45	GSI-3B	Z	-0.01	-0.01	0	%100
46	INT1	Z	-0.02	-0.02	0	%100
47	INT2	Z	-0.01	-0.01	0	%100
48	INT3	Z	-0.01	-0.01	0	%100
49	INT4	Z	-0.04	-0.04	0	%100
50	INT5	Z	-0.04	-0.04	0	%100
51	INT6	Z	-0.02	-0.02	0	%100
52	MP-1	Z	-0.06	-0.06	0	%100
53	MP-2	Z	-0.06	-0.06	0	%100
54	MP-3	Z	-0.06	-0.06	0	%100
55	MP-4	Z	-0.06	-0.06	0	%100
56	MP-5	Z	-0.06	-0.06	0	%100
57	MP-6	Z	-0.06	-0.06	0	%100
58	MP-7	Z	-0.06	-0.06	0	%100
59	MP-8	Z	-0.06	-0.06	0	%100
60	MP-9	Z	-0.06	-0.06	0	%100



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Member Distributed Loads (BLC 4 : 45 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[lb/ft. ...]	End Magnitude[lb/ft. F. ...]	Start Location[ft. %]	End Location[ft. %]	
61	MP-10	Z	-0.06	-0.06	0	%100
62	MP-11	Z	-0.06	-0.06	0	%100
63	MP-12	Z	-0.06	-0.06	0	%100
64	SA-1	Z	-0.03	-0.03	0	%100
65	SA-2	Z	-0.1	-0.1	0	%100
66	SA-3	Z	-0.12	-0.12	0	%100
67	SR-1	Z	-0.04	-0.04	0	%100
68	SR-2	Z	-0.02	-0.02	0	%100
69	SR-3	Z	-0.06	-0.06	0	%100
70	SRC-1	Z	-0.04	-0.04	0	%100
71	SRC-2	Z	-0.03	-0.03	0	%100
72	SRC-3	Z	-0.01	-0.01	0	%100

Member Distributed Loads (BLC 5 : 60 Wind - No Ice)

Member Label	Direction	Start Magnitude[lb/ft. ...]	End Magnitude[lb/ft. F. ...]	Start Location[ft. %]	End Location[ft. %]	
1	FFTH-1	X	-0.02	-0.02	0	%100
2	FFTH-2	X	-0.02	-0.02	0	%100
3	FFTH-3	X	-0.05	-0.05	0	%100
4	GSI-1A	X	-0.03	-0.03	0	%100
5	GSI-1B	X	-0.03	-0.03	0	%100
6	GSI-2A	X	-0.02	-0.02	0	%100
7	GSI-2B	X	-0.01	-0.01	0	%100
8	GSI-3A	X	-0.01	-0.01	0	%100
9	GSI-3B	X	-0.01	-0.01	0	%100
10	INT1	X	-0.02	-0.02	0	%100
11	INT2	X	-0.01	-0.01	0	%100
12	INT3	X	-0.01	-0.01	0	%100
13	INT4	X	-0.03	-0.03	0	%100
14	INT5	X	-0.03	-0.03	0	%100
15	INT6	X	-0.02	-0.02	0	%100
16	MP-1	X	-0.04	-0.04	0	%100
17	MP-2	X	-0.04	-0.04	0	%100
18	MP-3	X	-0.04	-0.04	0	%100
19	MP-4	X	-0.04	-0.04	0	%100
20	MP-5	X	-0.04	-0.04	0	%100
21	MP-6	X	-0.04	-0.04	0	%100
22	MP-7	X	-0.04	-0.04	0	%100
23	MP-8	X	-0.04	-0.04	0	%100
24	MP-9	X	-0.04	-0.04	0	%100
25	MP-10	X	-0.04	-0.04	0	%100
26	MP-11	X	-0.04	-0.04	0	%100
27	MP-12	X	-0.04	-0.04	0	%100
28	SA-1	X	0	0	0	%100
29	SA-2	X	-0.07	-0.07	0	%100
30	SA-3	X	-0.08	-0.08	0	%100
31	SR-1	X	-0.02	-0.02	0	%100
32	SR-2	X	-0.02	-0.02	0	%100
33	SR-3	X	-0.04	-0.04	0	%100
34	SRC-1	X	-0.03	-0.03	0	%100
35	SRC-2	X	-0.02	-0.02	0	%100
36	SRC-3	X	-0.01	-0.01	0	%100



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 Model Name : CCI BU No. 842869

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Member Distributed Loads (BLC 5 : 60 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft. F. ...)	Start Location(ft. %)	End Location(ft. %)	
37	FFTH-1	Z	-0.04	-0.04	0	%100
38	FFTH-2	Z	-0.04	-0.04	0	%100
39	FFTH-3	Z	-0.09	-0.09	0	%100
40	GSI-1A	Z	-0.06	-0.06	0	%100
41	GSI-1B	Z	-0.05	-0.05	0	%100
42	GSI-2A	Z	-0.03	-0.03	0	%100
43	GSI-2B	Z	-0.02	-0.02	0	%100
44	GSI-3A	Z	-0.03	-0.03	0	%100
45	GSI-3B	Z	-0.02	-0.02	0	%100
46	INT1	Z	-0.02	-0.02	0	%100
47	INT2	Z	-0.03	-0.03	0	%100
48	INT3	Z	-0.03	-0.03	0	%100
49	INT4	Z	-0.06	-0.06	0	%100
50	INT5	Z	-0.06	-0.06	0	%100
51	INT6	Z	-0.02	-0.02	0	%100
52	MP-1	Z	-0.08	-0.08	0	%100
53	MP-2	Z	-0.08	-0.08	0	%100
54	MP-3	Z	-0.08	-0.08	0	%100
55	MP-4	Z	-0.08	-0.08	0	%100
56	MP-5	Z	-0.08	-0.08	0	%100
57	MP-6	Z	-0.08	-0.08	0	%100
58	MP-7	Z	-0.08	-0.08	0	%100
59	MP-8	Z	-0.08	-0.08	0	%100
60	MP-9	Z	-0.08	-0.08	0	%100
61	MP-10	Z	-0.08	-0.08	0	%100
62	MP-11	Z	-0.08	-0.08	0	%100
63	MP-12	Z	-0.08	-0.08	0	%100
64	SA-1	Z	0	0	0	%100
65	SA-2	Z	-0.15	-0.15	0	%100
66	SA-3	Z	-0.13	-0.13	0	%100
67	SR-1	Z	-0.04	-0.04	0	%100
68	SR-2	Z	-0.04	-0.04	0	%100
69	SR-3	Z	-0.08	-0.08	0	%100
70	SRC-1	Z	-0.05	-0.05	0	%100
71	SRC-2	Z	-0.03	-0.03	0	%100
72	SRC-3	Z	-0.03	-0.03	0	%100

Member Distributed Loads (BLC 6 : 90 Wind - No Ice)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft. F. ...)	Start Location(ft. %)	End Location(ft. %)	
1	FFTH-1	Z	0	0	0	%100
2	FFTH-2	Z	-0.09	-0.09	0	%100
3	FFTH-3	Z	-0.09	-0.09	0	%100
4	GSI-1A	Z	-0.06	-0.06	0	%100
5	GSI-1B	Z	-0.05	-0.05	0	%100
6	GSI-2A	Z	0	0	0	%100
7	GSI-2B	Z	0	0	0	%100
8	GSI-3A	Z	-0.06	-0.06	0	%100
9	GSI-3B	Z	-0.05	-0.05	0	%100
10	INT1	Z	-1e-6	-1e-6	0	%100
11	INT2	Z	-0.06	-0.06	0	%100
12	INT3	Z	-0.06	-0.06	0	%100



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Member Distributed Loads (BLC 6 : 90 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft. F. ...)	Start Location(ft. %)	End Location(ft. %)	
13	INT4	Z	-0.06	-0.06	0	%100
14	INT5	Z	-0.06	-0.06	0	%100
15	INT6	Z	-1e-6	-1e-6	0	%100
16	MP-1	Z	-0.09	-0.09	0	%100
17	MP-2	Z	-0.09	-0.09	0	%100
18	MP-3	Z	-0.09	-0.09	0	%100
19	MP-4	Z	-0.09	-0.09	0	%100
20	MP-5	Z	-0.09	-0.09	0	%100
21	MP-6	Z	-0.09	-0.09	0	%100
22	MP-7	Z	-0.09	-0.09	0	%100
23	MP-8	Z	-0.09	-0.09	0	%100
24	MP-9	Z	-0.09	-0.09	0	%100
25	MP-10	Z	-0.09	-0.09	0	%100
26	MP-11	Z	-0.09	-0.09	0	%100
27	MP-12	Z	-0.09	-0.09	0	%100
28	SA-1	Z	-0.09	-0.09	0	%100
29	SA-2	Z	-0.2	-0.2	0	%100
30	SA-3	Z	-0.09	-0.09	0	%100
31	SR-1	Z	0	0	0	%100
32	SR-2	Z	-0.08	-0.08	0	%100
33	SR-3	Z	-0.08	-0.08	0	%100
34	SRC-1	Z	-0.05	-0.05	0	%100
35	SRC-2	Z	0	0	0	%100
36	SRC-3	Z	-0.05	-0.05	0	%100

Member Distributed Loads (BLC 7 : 120 Wind - No Ice)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft. F. ...)	Start Location(ft. %)	End Location(ft. %)	
1	FFTH-1	X	.002	.002	0	%100
2	FFTH-2	X	.005	.005	0	%100
3	FFTH-3	X	.002	.002	0	%100
4	GSI-1A	X	.001	.001	0	%100
5	GSI-1B	X	.001	.001	0	%100
6	GSI-2A	X	.002	.002	0	%100
7	GSI-2B	X	.001	.001	0	%100
8	GSI-3A	X	.003	.003	0	%100
9	GSI-3B	X	.003	.003	0	%100
10	INT1	X	.002	.002	0	%100
11	INT2	X	.003	.003	0	%100
12	INT3	X	.003	.003	0	%100
13	INT4	X	.001	.001	0	%100
14	INT5	X	.001	.001	0	%100
15	INT6	X	.002	.002	0	%100
16	MP-1	X	.004	.004	0	%100
17	MP-2	X	.004	.004	0	%100
18	MP-3	X	.004	.004	0	%100
19	MP-4	X	.004	.004	0	%100
20	MP-5	X	.004	.004	0	%100
21	MP-6	X	.004	.004	0	%100
22	MP-7	X	.004	.004	0	%100
23	MP-8	X	.004	.004	0	%100
24	MP-9	X	.004	.004	0	%100



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Member Distributed Loads (BLC 7 : 120 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[lb/ft. ...]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]	
25	MP-10	X	.004	.004	0	%100
26	MP-11	X	.004	.004	0	%100
27	MP-12	X	.004	.004	0	%100
28	SA-1	X	.008	.008	0	%100
29	SA-2	X	.007	.007	0	%100
30	SA-3	X	0	0	0	%100
31	SR-1	X	.002	.002	0	%100
32	SR-2	X	.004	.004	0	%100
33	SR-3	X	.002	.002	0	%100
34	SRC-1	X	.001	.001	0	%100
35	SRC-2	X	.002	.002	0	%100
36	SRC-3	X	.003	.003	0	%100
37	FFTH-1	Z	-.004	-.004	0	%100
38	FFTH-2	Z	-.009	-.009	0	%100
39	FFTH-3	Z	-.004	-.004	0	%100
40	GSI-1A	Z	-.003	-.003	0	%100
41	GSI-1B	Z	-.002	-.002	0	%100
42	GSI-2A	Z	-.003	-.003	0	%100
43	GSI-2B	Z	-.002	-.002	0	%100
44	GSI-3A	Z	-.006	-.006	0	%100
45	GSI-3B	Z	-.005	-.005	0	%100
46	INT1	Z	-.002	-.002	0	%100
47	INT2	Z	-.006	-.006	0	%100
48	INT3	Z	-.006	-.006	0	%100
49	INT4	Z	-.003	-.003	0	%100
50	INT5	Z	-.003	-.003	0	%100
51	INT6	Z	-.002	-.002	0	%100
52	MP-1	Z	-.008	-.008	0	%100
53	MP-2	Z	-.008	-.008	0	%100
54	MP-3	Z	-.008	-.008	0	%100
55	MP-4	Z	-.008	-.008	0	%100
56	MP-5	Z	-.008	-.008	0	%100
57	MP-6	Z	-.008	-.008	0	%100
58	MP-7	Z	-.008	-.008	0	%100
59	MP-8	Z	-.008	-.008	0	%100
60	MP-9	Z	-.008	-.008	0	%100
61	MP-10	Z	-.008	-.008	0	%100
62	MP-11	Z	-.008	-.008	0	%100
63	MP-12	Z	-.008	-.008	0	%100
64	SA-1	Z	-.013	-.013	0	%100
65	SA-2	Z	-.015	-.015	0	%100
66	SA-3	Z	0	0	0	%100
67	SR-1	Z	-.004	-.004	0	%100
68	SR-2	Z	-.008	-.008	0	%100
69	SR-3	Z	-.004	-.004	0	%100
70	SRC-1	Z	-.003	-.003	0	%100
71	SRC-2	Z	-.003	-.003	0	%100
72	SRC-3	Z	-.005	-.005	0	%100

Member Distributed Loads (BLC 8 : 135 Wind - No Ice)

Member Label	Direction	Start Magnitude[lb/ft. ...]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
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Member Distributed Loads (BLC 8 : 135 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[lb/ft. ...]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]	
1	FFTH-1	X	.005	.005	0	%100
2	FFTH-2	X	.007	.007	0	%100
3	FFTH-3	X	.002	.002	0	%100
4	GSI-1A	X	.001	.001	0	%100
5	GSI-1B	X	.001	.001	0	%100
6	GSI-2A	X	.004	.004	0	%100
7	GSI-2B	X	.003	.003	0	%100
8	GSI-3A	X	.004	.004	0	%100
9	GSI-3B	X	.004	.004	0	%100
10	INT1	X	.003	.003	0	%100
11	INT2	X	.004	.004	0	%100
12	INT3	X	.004	.004	0	%100
13	INT4	X	.001	.001	0	%100
14	INT5	X	.001	.001	0	%100
15	INT6	X	.003	.003	0	%100
16	MP-1	X	.006	.006	0	%100
17	MP-2	X	.006	.006	0	%100
18	MP-3	X	.006	.006	0	%100
19	MP-4	X	.006	.006	0	%100
20	MP-5	X	.006	.006	0	%100
21	MP-6	X	.006	.006	0	%100
22	MP-7	X	.006	.006	0	%100
23	MP-8	X	.006	.006	0	%100
24	MP-9	X	.006	.006	0	%100
25	MP-10	X	.006	.006	0	%100
26	MP-11	X	.006	.006	0	%100
27	MP-12	X	.006	.006	0	%100
28	SA-1	X	.013	.013	0	%100
29	SA-2	X	.008	.008	0	%100
30	SA-3	X	.004	.004	0	%100
31	SR-1	X	.004	.004	0	%100
32	SR-2	X	.006	.006	0	%100
33	SR-3	X	.002	.002	0	%100
34	SRC-1	X	.000986	.000986	0	%100
35	SRC-2	X	.003	.003	0	%100
36	SRC-3	X	.004	.004	0	%100
37	FFTH-1	Z	-.005	-.005	0	%100
38	FFTH-2	Z	-.007	-.007	0	%100
39	FFTH-3	Z	-.002	-.002	0	%100
40	GSI-1A	Z	-.001	-.001	0	%100
41	GSI-1B	Z	-.001	-.001	0	%100
42	GSI-2A	Z	-.004	-.004	0	%100
43	GSI-2B	Z	-.003	-.003	0	%100
44	GSI-3A	Z	-.005	-.005	0	%100
45	GSI-3B	Z	-.004	-.004	0	%100
46	INT1	Z	-.002	-.002	0	%100
47	INT2	Z	-.004	-.004	0	%100
48	INT3	Z	-.004	-.004	0	%100
49	INT4	Z	-.001	-.001	0	%100
50	INT5	Z	-.001	-.001	0	%100
51	INT6	Z	-.002	-.002	0	%100
52	MP-1	Z	-.006	-.006	0	%100



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Member Distributed Loads (BLC 8 : 135 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F. ...)	Start Location(ft. %)	End Location(ft. %)	
53	MP-2	Z	-0.06	-0.06	0	%100
54	MP-3	Z	-0.06	-0.06	0	%100
55	MP-4	Z	-0.06	-0.06	0	%100
56	MP-5	Z	-0.06	-0.06	0	%100
57	MP-6	Z	-0.06	-0.06	0	%100
58	MP-7	Z	-0.06	-0.06	0	%100
59	MP-8	Z	-0.06	-0.06	0	%100
60	MP-9	Z	-0.06	-0.06	0	%100
61	MP-10	Z	-0.06	-0.06	0	%100
62	MP-11	Z	-0.06	-0.06	0	%100
63	MP-12	Z	-0.06	-0.06	0	%100
64	SA-1	Z	-0.12	-0.12	0	%100
65	SA-2	Z	-0.01	-0.01	0	%100
66	SA-3	Z	-0.03	-0.03	0	%100
67	SR-1	Z	-0.04	-0.04	0	%100
68	SR-2	Z	-0.06	-0.06	0	%100
69	SR-3	Z	-0.02	-0.02	0	%100
70	SRC-1	Z	-0.01	-0.01	0	%100
71	SRC-2	Z	-0.03	-0.03	0	%100
72	SRC-3	Z	-0.04	-0.04	0	%100

Member Distributed Loads (BLC 9 : 150 Wind - No Ice)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F. ...)	Start Location(ft. %)	End Location(ft. %)	
1	FFTH-1	X	.007	.007	0	%100
2	FFTH-2	X	.007	.007	0	%100
3	FFTH-3	X	0	0	0	%100
4	GSI-1A	X	0	0	0	%100
5	GSI-1B	X	0	0	0	%100
6	GSI-2A	X	.006	.006	0	%100
7	GSI-2B	X	.004	.004	0	%100
8	GSI-3A	X	.004	.004	0	%100
9	GSI-3B	X	.004	.004	0	%100
10	INT1	X	.005	.005	0	%100
11	INT2	X	.004	.004	0	%100
12	INT3	X	.004	.004	0	%100
13	INT4	X	1e-6	1e-6	0	%100
14	INT5	X	1e-6	1e-6	0	%100
15	INT6	X	.005	.005	0	%100
16	MP-1	X	.008	.008	0	%100
17	MP-2	X	.008	.008	0	%100
18	MP-3	X	.008	.008	0	%100
19	MP-4	X	.008	.008	0	%100
20	MP-5	X	.008	.008	0	%100
21	MP-6	X	.008	.008	0	%100
22	MP-7	X	.008	.008	0	%100
23	MP-8	X	.008	.008	0	%100
24	MP-9	X	.008	.008	0	%100
25	MP-10	X	.008	.008	0	%100
26	MP-11	X	.008	.008	0	%100
27	MP-12	X	.008	.008	0	%100
28	SA-1	X	.017	.017	0	%100



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Member Distributed Loads (BLC 9 : 150 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F. ...)	Start Location(ft. %)	End Location(ft. %)	
29	SA-2	X	.007	.007	0	%100
30	SA-3	X	.008	.008	0	%100
31	SR-1	X	.007	.007	0	%100
32	SR-2	X	.007	.007	0	%100
33	SR-3	X	0	0	0	%100
34	SRC-1	X	0	0	0	%100
35	SRC-2	X	.005	.005	0	%100
36	SRC-3	X	.004	.004	0	%100
37	FFTH-1	Z	-0.04	-0.04	0	%100
38	FFTH-2	Z	-0.04	-0.04	0	%100
39	FFTH-3	Z	0	0	0	%100
40	GSI-1A	Z	0	0	0	%100
41	GSI-1B	Z	0	0	0	%100
42	GSI-2A	Z	-0.003	-0.003	0	%100
43	GSI-2B	Z	-0.002	-0.002	0	%100
44	GSI-3A	Z	-0.003	-0.003	0	%100
45	GSI-3B	Z	-0.002	-0.002	0	%100
46	INT1	Z	-0.002	-0.002	0	%100
47	INT2	Z	-0.003	-0.003	0	%100
48	INT3	Z	-0.003	-0.003	0	%100
49	INT4	Z	-1e-6	-1e-6	0	%100
50	INT5	Z	-1e-6	-1e-6	0	%100
51	INT6	Z	-0.002	-0.002	0	%100
52	MP-1	Z	-0.004	-0.004	0	%100
53	MP-2	Z	-0.004	-0.004	0	%100
54	MP-3	Z	-0.004	-0.004	0	%100
55	MP-4	Z	-0.004	-0.004	0	%100
56	MP-5	Z	-0.004	-0.004	0	%100
57	MP-6	Z	-0.004	-0.004	0	%100
58	MP-7	Z	-0.004	-0.004	0	%100
59	MP-8	Z	-0.004	-0.004	0	%100
60	MP-9	Z	-0.004	-0.004	0	%100
61	MP-10	Z	-0.004	-0.004	0	%100
62	MP-11	Z	-0.004	-0.004	0	%100
63	MP-12	Z	-0.004	-0.004	0	%100
64	SA-1	Z	-0.009	-0.009	0	%100
65	SA-2	Z	-0.005	-0.005	0	%100
66	SA-3	Z	-0.004	-0.004	0	%100
67	SR-1	Z	-0.004	-0.004	0	%100
68	SR-2	Z	-0.004	-0.004	0	%100
69	SR-3	Z	0	0	0	%100
70	SRC-1	Z	0	0	0	%100
71	SRC-2	Z	-0.003	-0.003	0	%100
72	SRC-3	Z	-0.003	-0.003	0	%100

Member Distributed Loads (BLC 10 : 180 Wind - No Ice)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F. ...)	Start Location(ft. %)	End Location(ft. %)	
1	FFTH-1	X	.01	.01	0	%100
2	FFTH-2	X	.005	.005	0	%100
3	FFTH-3	X	.005	.005	0	%100
4	GSI-1A	X	.003	.003	0	%100



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Member Distributed Loads (BLC 10 : 180 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[lb/ft. ...]	End Magnitude[lb/ft. F...]	Start Location[ft. %]	End Location[ft. %]	
5	GSI-1B	X	.003	.003	0	%100
6	GSI-2A	X	.007	.007	0	%100
7	GSI-2B	X	.005	.005	0	%100
8	GSI-3A	X	.003	.003	0	%100
9	GSI-3B	X	.003	.003	0	%100
10	INT1	X	.007	.007	0	%100
11	INT2	X	.003	.003	0	%100
12	INT3	X	.003	.003	0	%100
13	INT4	X	.003	.003	0	%100
14	INT5	X	.003	.003	0	%100
15	INT6	X	.007	.007	0	%100
16	MP-1	X	.009	.009	0	%100
17	MP-2	X	.009	.009	0	%100
18	MP-3	X	.009	.009	0	%100
19	MP-4	X	.009	.009	0	%100
20	MP-5	X	.009	.009	0	%100
21	MP-6	X	.009	.009	0	%100
22	MP-7	X	.009	.009	0	%100
23	MP-8	X	.009	.009	0	%100
24	MP-9	X	.009	.009	0	%100
25	MP-10	X	.009	.009	0	%100
26	MP-11	X	.009	.009	0	%100
27	MP-12	X	.009	.009	0	%100
28	SA-1	X	.017	.017	0	%100
29	SA-2	X	0	0	0	%100
30	SA-3	X	.017	.017	0	%100
31	SR-1	X	.009	.009	0	%100
32	SR-2	X	.004	.004	0	%100
33	SR-3	X	.004	.004	0	%100
34	SRC-1	X	.003	.003	0	%100
35	SRC-2	X	.006	.006	0	%100
36	SRC-3	X	.003	.003	0	%100

Member Distributed Loads (BLC 11 : 210 Wind - No Ice)

Member Label	Direction	Start Magnitude[lb/ft. ...]	End Magnitude[lb/ft. F...]	Start Location[ft. %]	End Location[ft. %]	
1	FFTH-1	X	.007	.007	0	%100
2	FFTH-2	X	0	0	0	%100
3	FFTH-3	X	.007	.007	0	%100
4	GSI-1A	X	.004	.004	0	%100
5	GSI-1B	X	.004	.004	0	%100
6	GSI-2A	X	.006	.006	0	%100
7	GSI-2B	X	.004	.004	0	%100
8	GSI-3A	X	0	0	0	%100
9	GSI-3B	X	0	0	0	%100
10	INT1	X	.005	.005	0	%100
11	INT2	X	1e-6	1e-6	0	%100
12	INT3	X	1e-6	1e-6	0	%100
13	INT4	X	.004	.004	0	%100
14	INT5	X	.004	.004	0	%100
15	INT6	X	.005	.005	0	%100
16	MP-1	X	.008	.008	0	%100



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Member Distributed Loads (BLC 11 : 210 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[lb/ft. ...]	End Magnitude[lb/ft. F...]	Start Location[ft. %]	End Location[ft. %]	
17	MP-2	X	.008	.008	0	%100
18	MP-3	X	.008	.008	0	%100
19	MP-4	X	.008	.008	0	%100
20	MP-5	X	.008	.008	0	%100
21	MP-6	X	.008	.008	0	%100
22	MP-7	X	.008	.008	0	%100
23	MP-8	X	.008	.008	0	%100
24	MP-9	X	.008	.008	0	%100
25	MP-10	X	.008	.008	0	%100
26	MP-11	X	.008	.008	0	%100
27	MP-12	X	.008	.008	0	%100
28	SA-1	X	.008	.008	0	%100
29	SA-2	X	.007	.007	0	%100
30	SA-3	X	.017	.017	0	%100
31	SR-1	X	.007	.007	0	%100
32	SR-2	X	0	0	0	%100
33	SR-3	X	.007	.007	0	%100
34	SRC-1	X	.004	.004	0	%100
35	SRC-2	X	.005	.005	0	%100
36	SRC-3	X	0	0	0	%100
37	FFTH-1	Z	.004	.004	0	%100
38	FFTH-2	Z	0	0	0	%100
39	FFTH-3	Z	.004	.004	0	%100
40	GSI-1A	Z	.003	.003	0	%100
41	GSI-1B	Z	.002	.002	0	%100
42	GSI-2A	Z	.003	.003	0	%100
43	GSI-2B	Z	.002	.002	0	%100
44	GSI-3A	Z	0	0	0	%100
45	GSI-3B	Z	0	0	0	%100
46	INT1	Z	.002	.002	0	%100
47	INT2	Z	1e-6	1e-6	0	%100
48	INT3	Z	1e-6	1e-6	0	%100
49	INT4	Z	.003	.003	0	%100
50	INT5	Z	.003	.003	0	%100
51	INT6	Z	.002	.002	0	%100
52	MP-1	Z	.004	.004	0	%100
53	MP-2	Z	.004	.004	0	%100
54	MP-3	Z	.004	.004	0	%100
55	MP-4	Z	.004	.004	0	%100
56	MP-5	Z	.004	.004	0	%100
57	MP-6	Z	.004	.004	0	%100
58	MP-7	Z	.004	.004	0	%100
59	MP-8	Z	.004	.004	0	%100
60	MP-9	Z	.004	.004	0	%100
61	MP-10	Z	.004	.004	0	%100
62	MP-11	Z	.004	.004	0	%100
63	MP-12	Z	.004	.004	0	%100
64	SA-1	Z	.004	.004	0	%100
65	SA-2	Z	.005	.005	0	%100
66	SA-3	Z	.009	.009	0	%100
67	SR-1	Z	.004	.004	0	%100
68	SR-2	Z	0	0	0	%100



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Member Distributed Loads (BLC 11 : 210 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft. F. ...)	Start Location(ft. %)	End Location(ft. %)	
69	SR-3	Z	.004	.004	0	%100
70	SRC-1	Z	.003	.003	0	%100
71	SRC-2	Z	.003	.003	0	%100
72	SRC-3	Z	0	0	0	%100

Member Distributed Loads (BLC 12 : 225 Wind - No Ice)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft. F. ...)	Start Location(ft. %)	End Location(ft. %)	
1	FFTH-1	X	.005	.005	0	%100
2	FFTH-2	X	.002	.002	0	%100
3	FFTH-3	X	.007	.007	0	%100
4	GSI-1A	X	.004	.004	0	%100
5	GSI-1B	X	.004	.004	0	%100
6	GSI-2A	X	.004	.004	0	%100
7	GSI-2B	X	.003	.003	0	%100
8	GSI-3A	X	.001	.001	0	%100
9	GSI-3B	X	.001	.001	0	%100
10	INT1	X	.003	.003	0	%100
11	INT2	X	.001	.001	0	%100
12	INT3	X	.001	.001	0	%100
13	INT4	X	.004	.004	0	%100
14	INT5	X	.004	.004	0	%100
15	INT6	X	.003	.003	0	%100
16	MP-1	X	.006	.006	0	%100
17	MP-2	X	.006	.006	0	%100
18	MP-3	X	.006	.006	0	%100
19	MP-4	X	.006	.006	0	%100
20	MP-5	X	.006	.006	0	%100
21	MP-6	X	.006	.006	0	%100
22	MP-7	X	.006	.006	0	%100
23	MP-8	X	.006	.006	0	%100
24	MP-9	X	.006	.006	0	%100
25	MP-10	X	.006	.006	0	%100
26	MP-11	X	.006	.006	0	%100
27	MP-12	X	.006	.006	0	%100
28	SA-1	X	.004	.004	0	%100
29	SA-2	X	.008	.008	0	%100
30	SA-3	X	.013	.013	0	%100
31	SR-1	X	.004	.004	0	%100
32	SR-2	X	.002	.002	0	%100
33	SR-3	X	.006	.006	0	%100
34	SRC-1	X	.004	.004	0	%100
35	SRC-2	X	.003	.003	0	%100
36	SRC-3	X	.000986	.000986	0	%100
37	FFTH-1	Z	.005	.005	0	%100
38	FFTH-2	Z	.002	.002	0	%100
39	FFTH-3	Z	.007	.007	0	%100
40	GSI-1A	Z	.005	.005	0	%100
41	GSI-1B	Z	.004	.004	0	%100
42	GSI-2A	Z	.004	.004	0	%100
43	GSI-2B	Z	.003	.003	0	%100
44	GSI-3A	Z	.001	.001	0	%100



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Member Distributed Loads (BLC 12 : 225 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft. F. ...)	Start Location(ft. %)	End Location(ft. %)	
45	GSI-3B	Z	.001	.001	0	%100
46	INT1	Z	.002	.002	0	%100
47	INT2	Z	.001	.001	0	%100
48	INT3	Z	.001	.001	0	%100
49	INT4	Z	.004	.004	0	%100
50	INT5	Z	.004	.004	0	%100
51	INT6	Z	.002	.002	0	%100
52	MP-1	Z	.006	.006	0	%100
53	MP-2	Z	.006	.006	0	%100
54	MP-3	Z	.006	.006	0	%100
55	MP-4	Z	.006	.006	0	%100
56	MP-5	Z	.006	.006	0	%100
57	MP-6	Z	.006	.006	0	%100
58	MP-7	Z	.006	.006	0	%100
59	MP-8	Z	.006	.006	0	%100
60	MP-9	Z	.006	.006	0	%100
61	MP-10	Z	.006	.006	0	%100
62	MP-11	Z	.006	.006	0	%100
63	MP-12	Z	.006	.006	0	%100
64	SA-1	Z	.003	.003	0	%100
65	SA-2	Z	.01	.01	0	%100
66	SA-3	Z	.012	.012	0	%100
67	SR-1	Z	.004	.004	0	%100
68	SR-2	Z	.002	.002	0	%100
69	SR-3	Z	.006	.006	0	%100
70	SRC-1	Z	.004	.004	0	%100
71	SRC-2	Z	.003	.003	0	%100
72	SRC-3	Z	.001	.001	0	%100

Member Distributed Loads (BLC 13 : 240 Wind - No Ice)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft. F. ...)	Start Location(ft. %)	End Location(ft. %)	
1	FFTH-1	X	.002	.002	0	%100
2	FFTH-2	X	.002	.002	0	%100
3	FFTH-3	X	.005	.005	0	%100
4	GSI-1A	X	.003	.003	0	%100
5	GSI-1B	X	.003	.003	0	%100
6	GSI-2A	X	.002	.002	0	%100
7	GSI-2B	X	.001	.001	0	%100
8	GSI-3A	X	.001	.001	0	%100
9	GSI-3B	X	.001	.001	0	%100
10	INT1	X	.002	.002	0	%100
11	INT2	X	.001	.001	0	%100
12	INT3	X	.001	.001	0	%100
13	INT4	X	.003	.003	0	%100
14	INT5	X	.003	.003	0	%100
15	INT6	X	.002	.002	0	%100
16	MP-1	X	.004	.004	0	%100
17	MP-2	X	.004	.004	0	%100
18	MP-3	X	.004	.004	0	%100
19	MP-4	X	.004	.004	0	%100
20	MP-5	X	.004	.004	0	%100



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Member Distributed Loads (BLC 13 : 240 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[lb/ft. ...]	End Magnitude[lb/ft. F...]	Start Location[ft. %]	End Location[ft. %]	
21	MP-6	X	.004	.004	0	%100
22	MP-7	X	.004	.004	0	%100
23	MP-8	X	.004	.004	0	%100
24	MP-9	X	.004	.004	0	%100
25	MP-10	X	.004	.004	0	%100
26	MP-11	X	.004	.004	0	%100
27	MP-12	X	.004	.004	0	%100
28	SA-1	X	0	0	0	%100
29	SA-2	X	.007	.007	0	%100
30	SA-3	X	.008	.008	0	%100
31	SR-1	X	.002	.002	0	%100
32	SR-2	X	.002	.002	0	%100
33	SR-3	X	.004	.004	0	%100
34	SRC-1	X	.003	.003	0	%100
35	SRC-2	X	.002	.002	0	%100
36	SRC-3	X	.001	.001	0	%100
37	FFTH-1	Z	.004	.004	0	%100
38	FFTH-2	Z	.004	.004	0	%100
39	FFTH-3	Z	.009	.009	0	%100
40	GSI-1A	Z	.006	.006	0	%100
41	GSI-1B	Z	.005	.005	0	%100
42	GSI-2A	Z	.003	.003	0	%100
43	GSI-2B	Z	.002	.002	0	%100
44	GSI-3A	Z	.003	.003	0	%100
45	GSI-3B	Z	.002	.002	0	%100
46	INT1	Z	.002	.002	0	%100
47	INT2	Z	.003	.003	0	%100
48	INT3	Z	.003	.003	0	%100
49	INT4	Z	.006	.006	0	%100
50	INT5	Z	.006	.006	0	%100
51	INT6	Z	.002	.002	0	%100
52	MP-1	Z	.008	.008	0	%100
53	MP-2	Z	.008	.008	0	%100
54	MP-3	Z	.008	.008	0	%100
55	MP-4	Z	.008	.008	0	%100
56	MP-5	Z	.008	.008	0	%100
57	MP-6	Z	.008	.008	0	%100
58	MP-7	Z	.008	.008	0	%100
59	MP-8	Z	.008	.008	0	%100
60	MP-9	Z	.008	.008	0	%100
61	MP-10	Z	.008	.008	0	%100
62	MP-11	Z	.008	.008	0	%100
63	MP-12	Z	.008	.008	0	%100
64	SA-1	Z	0	0	0	%100
65	SA-2	Z	.015	.015	0	%100
66	SA-3	Z	.013	.013	0	%100
67	SR-1	Z	.004	.004	0	%100
68	SR-2	Z	.004	.004	0	%100
69	SR-3	Z	.008	.008	0	%100
70	SRC-1	Z	.005	.005	0	%100
71	SRC-2	Z	.003	.003	0	%100
72	SRC-3	Z	.003	.003	0	%100



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Member Distributed Loads (BLC 14 : 270 Wind - No Ice)

Member Label	Direction	Start Magnitude[lb/ft. ...]	End Magnitude[lb/ft. F...]	Start Location[ft. %]	End Location[ft. %]	
1	FFTH-1	Z	0	0	0	%100
2	FFTH-2	Z	.009	.009	0	%100
3	FFTH-3	Z	.009	.009	0	%100
4	GSI-1A	Z	.006	.006	0	%100
5	GSI-1B	Z	.005	.005	0	%100
6	GSI-2A	Z	0	0	0	%100
7	GSI-2B	Z	0	0	0	%100
8	GSI-3A	Z	.006	.006	0	%100
9	GSI-3B	Z	.005	.005	0	%100
10	INT1	Z	1e-6	1e-6	0	%100
11	INT2	Z	.006	.006	0	%100
12	INT3	Z	.006	.006	0	%100
13	INT4	Z	.006	.006	0	%100
14	INT5	Z	.006	.006	0	%100
15	INT6	Z	1e-6	1e-6	0	%100
16	MP-1	Z	.009	.009	0	%100
17	MP-2	Z	.009	.009	0	%100
18	MP-3	Z	.009	.009	0	%100
19	MP-4	Z	.009	.009	0	%100
20	MP-5	Z	.009	.009	0	%100
21	MP-6	Z	.009	.009	0	%100
22	MP-7	Z	.009	.009	0	%100
23	MP-8	Z	.009	.009	0	%100
24	MP-9	Z	.009	.009	0	%100
25	MP-10	Z	.009	.009	0	%100
26	MP-11	Z	.009	.009	0	%100
27	MP-12	Z	.009	.009	0	%100
28	SA-1	Z	.009	.009	0	%100
29	SA-2	Z	.02	.02	0	%100
30	SA-3	Z	.009	.009	0	%100
31	SR-1	Z	0	0	0	%100
32	SR-2	Z	.008	.008	0	%100
33	SR-3	Z	.008	.008	0	%100
34	SRC-1	Z	.005	.005	0	%100
35	SRC-2	Z	0	0	0	%100
36	SRC-3	Z	.005	.005	0	%100

Member Distributed Loads (BLC 15 : 300 Wind - No Ice)

Member Label	Direction	Start Magnitude[lb/ft. ...]	End Magnitude[lb/ft. F...]	Start Location[ft. %]	End Location[ft. %]	
1	FFTH-1	X	-.002	-.002	0	%100
2	FFTH-2	X	-.005	-.005	0	%100
3	FFTH-3	X	-.002	-.002	0	%100
4	GSI-1A	X	-.001	-.001	0	%100
5	GSI-1B	X	-.001	-.001	0	%100
6	GSI-2A	X	-.002	-.002	0	%100
7	GSI-2B	X	-.001	-.001	0	%100
8	GSI-3A	X	-.003	-.003	0	%100
9	GSI-3B	X	-.003	-.003	0	%100
10	INT1	X	-.002	-.002	0	%100
11	INT2	X	-.003	-.003	0	%100
12	INT3	X	-.003	-.003	0	%100



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Member Distributed Loads (BLC 15 : 300 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[lb/ft. ...]	End Magnitude[lb/ft. F...]	Start Location[ft. %]	End Location[ft. %]	
13	INT4	X	-0.01	-0.01	0	%100
14	INT5	X	-0.01	-0.01	0	%100
15	INT6	X	-0.02	-0.02	0	%100
16	MP-1	X	-0.04	-0.04	0	%100
17	MP-2	X	-0.04	-0.04	0	%100
18	MP-3	X	-0.04	-0.04	0	%100
19	MP-4	X	-0.04	-0.04	0	%100
20	MP-5	X	-0.04	-0.04	0	%100
21	MP-6	X	-0.04	-0.04	0	%100
22	MP-7	X	-0.04	-0.04	0	%100
23	MP-8	X	-0.04	-0.04	0	%100
24	MP-9	X	-0.04	-0.04	0	%100
25	MP-10	X	-0.04	-0.04	0	%100
26	MP-11	X	-0.04	-0.04	0	%100
27	MP-12	X	-0.04	-0.04	0	%100
28	SA-1	X	-0.08	-0.08	0	%100
29	SA-2	X	-0.07	-0.07	0	%100
30	SA-3	X	0	0	0	%100
31	SR-1	X	-0.02	-0.02	0	%100
32	SR-2	X	-0.04	-0.04	0	%100
33	SR-3	X	-0.02	-0.02	0	%100
34	SRC-1	X	-0.01	-0.01	0	%100
35	SRC-2	X	-0.02	-0.02	0	%100
36	SRC-3	X	-0.03	-0.03	0	%100
37	FFTH-1	Z	0.04	0.04	0	%100
38	FFTH-2	Z	0.09	0.09	0	%100
39	FFTH-3	Z	0.04	0.04	0	%100
40	GSI-1A	Z	0.03	0.03	0	%100
41	GSI-1B	Z	0.02	0.02	0	%100
42	GSI-2A	Z	0.03	0.03	0	%100
43	GSI-2B	Z	0.02	0.02	0	%100
44	GSI-3A	Z	0.06	0.06	0	%100
45	GSI-3B	Z	0.05	0.05	0	%100
46	INT1	Z	0.02	0.02	0	%100
47	INT2	Z	0.06	0.06	0	%100
48	INT3	Z	0.06	0.06	0	%100
49	INT4	Z	0.03	0.03	0	%100
50	INT5	Z	0.03	0.03	0	%100
51	INT6	Z	0.02	0.02	0	%100
52	MP-1	Z	0.08	0.08	0	%100
53	MP-2	Z	0.08	0.08	0	%100
54	MP-3	Z	0.08	0.08	0	%100
55	MP-4	Z	0.08	0.08	0	%100
56	MP-5	Z	0.08	0.08	0	%100
57	MP-6	Z	0.08	0.08	0	%100
58	MP-7	Z	0.08	0.08	0	%100
59	MP-8	Z	0.08	0.08	0	%100
60	MP-9	Z	0.08	0.08	0	%100
61	MP-10	Z	0.08	0.08	0	%100
62	MP-11	Z	0.08	0.08	0	%100
63	MP-12	Z	0.08	0.08	0	%100
64	SA-1	Z	0.13	0.13	0	%100



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Member Distributed Loads (BLC 15 : 300 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[lb/ft. ...]	End Magnitude[lb/ft. F...]	Start Location[ft. %]	End Location[ft. %]	
65	SA-2	Z	0.15	0.15	0	%100
66	SA-3	Z	0	0	0	%100
67	SR-1	Z	0.04	0.04	0	%100
68	SR-2	Z	0.08	0.08	0	%100
69	SR-3	Z	0.04	0.04	0	%100
70	SRC-1	Z	0.03	0.03	0	%100
71	SRC-2	Z	0.03	0.03	0	%100
72	SRC-3	Z	0.05	0.05	0	%100

Member Distributed Loads (BLC 16 : 315 Wind - No Ice)

Member Label	Direction	Start Magnitude[lb/ft. ...]	End Magnitude[lb/ft. F...]	Start Location[ft. %]	End Location[ft. %]	
1	FFTH-1	X	-0.05	-0.05	0	%100
2	FFTH-2	X	-0.07	-0.07	0	%100
3	FFTH-3	X	-0.02	-0.02	0	%100
4	GSI-1A	X	-0.01	-0.01	0	%100
5	GSI-1B	X	-0.01	-0.01	0	%100
6	GSI-2A	X	-0.04	-0.04	0	%100
7	GSI-2B	X	-0.03	-0.03	0	%100
8	GSI-3A	X	-0.04	-0.04	0	%100
9	GSI-3B	X	-0.04	-0.04	0	%100
10	INT1	X	-0.03	-0.03	0	%100
11	INT2	X	-0.04	-0.04	0	%100
12	INT3	X	-0.04	-0.04	0	%100
13	INT4	X	-0.01	-0.01	0	%100
14	INT5	X	-0.01	-0.01	0	%100
15	INT6	X	-0.03	-0.03	0	%100
16	MP-1	X	-0.06	-0.06	0	%100
17	MP-2	X	-0.06	-0.06	0	%100
18	MP-3	X	-0.06	-0.06	0	%100
19	MP-4	X	-0.06	-0.06	0	%100
20	MP-5	X	-0.06	-0.06	0	%100
21	MP-6	X	-0.06	-0.06	0	%100
22	MP-7	X	-0.06	-0.06	0	%100
23	MP-8	X	-0.06	-0.06	0	%100
24	MP-9	X	-0.06	-0.06	0	%100
25	MP-10	X	-0.06	-0.06	0	%100
26	MP-11	X	-0.06	-0.06	0	%100
27	MP-12	X	-0.06	-0.06	0	%100
28	SA-1	X	-0.13	-0.13	0	%100
29	SA-2	X	-0.08	-0.08	0	%100
30	SA-3	X	-0.04	-0.04	0	%100
31	SR-1	X	-0.04	-0.04	0	%100
32	SR-2	X	-0.06	-0.06	0	%100
33	SR-3	X	-0.02	-0.02	0	%100
34	SRC-1	X	-0.00986	-0.00986	0	%100
35	SRC-2	X	-0.03	-0.03	0	%100
36	SRC-3	X	-0.04	-0.04	0	%100
37	FFTH-1	Z	0.05	0.05	0	%100
38	FFTH-2	Z	0.07	0.07	0	%100
39	FFTH-3	Z	0.02	0.02	0	%100
40	GSI-1A	Z	0.01	0.01	0	%100



Company : Tower Engineering Professionals
 Designer : GJS
 Job Number : TEP No. 217612.798269
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Member Distributed Loads (BLC 16 : 315 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[lb/ft. ...]	End Magnitude[lb/ft. F...]	Start Location[ft. %]	End Location[ft. %]	
41	GSI-1B	Z	.001	.001	0	%100
42	GSI-2A	Z	.004	.004	0	%100
43	GSI-2B	Z	.003	.003	0	%100
44	GSI-3A	Z	.005	.005	0	%100
45	GSI-3B	Z	.004	.004	0	%100
46	INT1	Z	.002	.002	0	%100
47	INT2	Z	.004	.004	0	%100
48	INT3	Z	.004	.004	0	%100
49	INT4	Z	.001	.001	0	%100
50	INT5	Z	.001	.001	0	%100
51	INT6	Z	.002	.002	0	%100
52	MP-1	Z	.006	.006	0	%100
53	MP-2	Z	.006	.006	0	%100
54	MP-3	Z	.006	.006	0	%100
55	MP-4	Z	.006	.006	0	%100
56	MP-5	Z	.006	.006	0	%100
57	MP-6	Z	.006	.006	0	%100
58	MP-7	Z	.006	.006	0	%100
59	MP-8	Z	.006	.006	0	%100
60	MP-9	Z	.006	.006	0	%100
61	MP-10	Z	.006	.006	0	%100
62	MP-11	Z	.006	.006	0	%100
63	MP-12	Z	.006	.006	0	%100
64	SA-1	Z	.012	.012	0	%100
65	SA-2	Z	.01	.01	0	%100
66	SA-3	Z	.003	.003	0	%100
67	SR-1	Z	.004	.004	0	%100
68	SR-2	Z	.006	.006	0	%100
69	SR-3	Z	.002	.002	0	%100
70	SRC-1	Z	.001	.001	0	%100
71	SRC-2	Z	.003	.003	0	%100
72	SRC-3	Z	.004	.004	0	%100

Member Distributed Loads (BLC 17 : 330 Wind - No Ice)

Member Label	Direction	Start Magnitude[lb/ft. ...]	End Magnitude[lb/ft. F...]	Start Location[ft. %]	End Location[ft. %]	
1	FFTH-1	X	-0.07	-0.07	0	%100
2	FFTH-2	X	-0.07	-0.07	0	%100
3	FFTH-3	X	0	0	0	%100
4	GSI-1A	X	0	0	0	%100
5	GSI-1B	X	0	0	0	%100
6	GSI-2A	X	-0.006	-0.006	0	%100
7	GSI-2B	X	-0.004	-0.004	0	%100
8	GSI-3A	X	-0.004	-0.004	0	%100
9	GSI-3B	X	-0.004	-0.004	0	%100
10	INT1	X	-0.005	-0.005	0	%100
11	INT2	X	-0.004	-0.004	0	%100
12	INT3	X	-0.004	-0.004	0	%100
13	INT4	X	-1e-6	-1e-6	0	%100
14	INT5	X	-1e-6	-1e-6	0	%100
15	INT6	X	-0.005	-0.005	0	%100
16	MP-1	X	-0.008	-0.008	0	%100



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Member Distributed Loads (BLC 17 : 330 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[lb/ft. ...]	End Magnitude[lb/ft. F...]	Start Location[ft. %]	End Location[ft. %]	
17	MP-2	X	-0.008	-0.008	0	%100
18	MP-3	X	-0.008	-0.008	0	%100
19	MP-4	X	-0.008	-0.008	0	%100
20	MP-5	X	-0.008	-0.008	0	%100
21	MP-6	X	-0.008	-0.008	0	%100
22	MP-7	X	-0.008	-0.008	0	%100
23	MP-8	X	-0.008	-0.008	0	%100
24	MP-9	X	-0.008	-0.008	0	%100
25	MP-10	X	-0.008	-0.008	0	%100
26	MP-11	X	-0.008	-0.008	0	%100
27	MP-12	X	-0.008	-0.008	0	%100
28	SA-1	X	-0.017	-0.017	0	%100
29	SA-2	X	-0.007	-0.007	0	%100
30	SA-3	X	-0.008	-0.008	0	%100
31	SR-1	X	-0.007	-0.007	0	%100
32	SR-2	X	-0.007	-0.007	0	%100
33	SR-3	X	0	0	0	%100
34	SRC-1	X	0	0	0	%100
35	SRC-2	X	-0.005	-0.005	0	%100
36	SRC-3	X	-0.004	-0.004	0	%100
37	FFTH-1	Z	.004	.004	0	%100
38	FFTH-2	Z	.004	.004	0	%100
39	FFTH-3	Z	0	0	0	%100
40	GSI-1A	Z	0	0	0	%100
41	GSI-1B	Z	0	0	0	%100
42	GSI-2A	Z	.003	.003	0	%100
43	GSI-2B	Z	.002	.002	0	%100
44	GSI-3A	Z	.003	.003	0	%100
45	GSI-3B	Z	.002	.002	0	%100
46	INT1	Z	.002	.002	0	%100
47	INT2	Z	.003	.003	0	%100
48	INT3	Z	.003	.003	0	%100
49	INT4	Z	1e-6	1e-6	0	%100
50	INT5	Z	1e-6	1e-6	0	%100
51	INT6	Z	.002	.002	0	%100
52	MP-1	Z	.004	.004	0	%100
53	MP-2	Z	.004	.004	0	%100
54	MP-3	Z	.004	.004	0	%100
55	MP-4	Z	.004	.004	0	%100
56	MP-5	Z	.004	.004	0	%100
57	MP-6	Z	.004	.004	0	%100
58	MP-7	Z	.004	.004	0	%100
59	MP-8	Z	.004	.004	0	%100
60	MP-9	Z	.004	.004	0	%100
61	MP-10	Z	.004	.004	0	%100
62	MP-11	Z	.004	.004	0	%100
63	MP-12	Z	.004	.004	0	%100
64	SA-1	Z	.009	.009	0	%100
65	SA-2	Z	.005	.005	0	%100
66	SA-3	Z	.004	.004	0	%100
67	SR-1	Z	.004	.004	0	%100
68	SR-2	Z	.004	.004	0	%100



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Member Distributed Loads (BLC 17 : 330 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F. ...)	Start Location(ft. %)	End Location(ft. %)
69	SR-3	Z	0	0	%100
70	SRC-1	Z	0	0	%100
71	SRC-2	Z	.003	.003	%100
72	SRC-3	Z	.003	.003	%100

Member Distributed Loads (BLC 18 : Ice Weight)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F. ...)	Start Location(ft. %)	End Location(ft. %)
1	FFTH-1	Y	-0.006	-0.006	0
2	FFTH-2	Y	-0.006	-0.006	0
3	FFTH-3	Y	-0.006	-0.006	0
4	GSI-1A	Y	-0.007	-0.007	0
5	GSI-1B	Y	-0.007	-0.007	0
6	GSI-2A	Y	-0.007	-0.007	0
7	GSI-2B	Y	-0.007	-0.007	0
8	GSI-3A	Y	-0.007	-0.007	0
9	GSI-3B	Y	-0.007	-0.007	0
10	INT1	Y	-0.003	-0.003	0
11	INT2	Y	-0.003	-0.003	0
12	INT3	Y	-0.003	-0.003	0
13	INT4	Y	-0.003	-0.003	0
14	INT5	Y	-0.003	-0.003	0
15	INT6	Y	-0.003	-0.003	0
16	MP-1	Y	-0.006	-0.006	0
17	MP-2	Y	-0.006	-0.006	0
18	MP-3	Y	-0.006	-0.006	0
19	MP-4	Y	-0.006	-0.006	0
20	MP-5	Y	-0.006	-0.006	0
21	MP-6	Y	-0.006	-0.006	0
22	MP-7	Y	-0.006	-0.006	0
23	MP-8	Y	-0.006	-0.006	0
24	MP-9	Y	-0.006	-0.006	0
25	MP-10	Y	-0.006	-0.006	0
26	MP-11	Y	-0.006	-0.006	0
27	MP-12	Y	-0.006	-0.006	0
28	SA-1	Y	-0.007	-0.007	0
29	SA-2	Y	-0.007	-0.007	0
30	SA-3	Y	-0.007	-0.007	0
31	SR-1	Y	-0.006	-0.006	0
32	SR-2	Y	-0.006	-0.006	0
33	SR-3	Y	-0.006	-0.006	0
34	SRC-1	Y	-0.006	-0.006	0
35	SRC-2	Y	-0.006	-0.006	0
36	SRC-3	Y	-0.006	-0.006	0

Member Distributed Loads (BLC 19 : 0 Wind - Ice)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F. ...)	Start Location(ft. %)	End Location(ft. %)
1	FFTH-1	X	-0.003	-0.003	0
2	FFTH-2	X	-0.003	-0.003	0
3	FFTH-3	X	-0.003	-0.003	0
4	GSI-1A	X	-0.002	-0.002	0
5	GSI-1B	X	-0.002	-0.002	0



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Member Distributed Loads (BLC 19 : 0 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F. ...)	Start Location(ft. %)	End Location(ft. %)
6	GSI-2A	X	-0.002	-0.002	0
7	GSI-2B	X	-0.002	-0.002	0
8	GSI-3A	X	-0.002	-0.002	0
9	GSI-3B	X	-0.002	-0.002	0
10	INT1	X	-0.003	-0.003	0
11	INT2	X	-0.002	-0.002	0
12	INT3	X	-0.002	-0.002	0
13	INT4	X	-0.002	-0.002	0
14	INT5	X	-0.002	-0.002	0
15	INT6	X	-0.003	-0.003	0
16	MP-1	X	-0.002	-0.002	0
17	MP-2	X	-0.002	-0.002	0
18	MP-3	X	-0.002	-0.002	0
19	MP-4	X	-0.002	-0.002	0
20	MP-5	X	-0.002	-0.002	0
21	MP-6	X	-0.002	-0.002	0
22	MP-7	X	-0.002	-0.002	0
23	MP-8	X	-0.002	-0.002	0
24	MP-9	X	-0.002	-0.002	0
25	MP-10	X	-0.002	-0.002	0
26	MP-11	X	-0.002	-0.002	0
27	MP-12	X	-0.002	-0.002	0
28	SA-1	X	-0.005	-0.005	0
29	SA-2	X	-0.004	-0.004	0
30	SA-3	X	-0.005	-0.005	0
31	SR-1	X	-0.003	-0.003	0
32	SR-2	X	-0.002	-0.002	0
33	SR-3	X	-0.002	-0.002	0
34	SRC-1	X	-0.002	-0.002	0
35	SRC-2	X	-0.002	-0.002	0
36	SRC-3	X	-0.002	-0.002	0

Member Distributed Loads (BLC 20 : 30 Wind - Ice)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F. ...)	Start Location(ft. %)	End Location(ft. %)
1	FFTH-1	X	-0.002	-0.002	0
2	FFTH-2	X	0	0	%100
3	FFTH-3	X	-0.002	-0.002	0
4	GSI-1A	X	-0.002	-0.002	0
5	GSI-1B	X	-0.001	-0.001	0
6	GSI-2A	X	-0.002	-0.002	0
7	GSI-2B	X	-0.002	-0.002	0
8	GSI-3A	X	0	0	%100
9	GSI-3B	X	0	0	%100
10	INT1	X	-0.002	-0.002	0
11	INT2	X	0	0	%100
12	INT3	X	0	0	%100
13	INT4	X	-0.002	-0.002	0
14	INT5	X	-0.002	-0.002	0
15	INT6	X	-0.002	-0.002	0
16	MP-1	X	-0.002	-0.002	0
17	MP-2	X	-0.002	-0.002	0



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Member Distributed Loads (BLC 20 : 30 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F...)	Start Location(ft.%)	End Location(ft.%)	
18	MP-3	X	-0.002	-0.002	0	%100
19	MP-4	X	-0.002	-0.002	0	%100
20	MP-5	X	-0.002	-0.002	0	%100
21	MP-6	X	-0.002	-0.002	0	%100
22	MP-7	X	-0.002	-0.002	0	%100
23	MP-8	X	-0.002	-0.002	0	%100
24	MP-9	X	-0.002	-0.002	0	%100
25	MP-10	X	-0.002	-0.002	0	%100
26	MP-11	X	-0.002	-0.002	0	%100
27	MP-12	X	-0.002	-0.002	0	%100
28	SA-1	X	-0.002	-0.002	0	%100
29	SA-2	X	-0.002	-0.002	0	%100
30	SA-3	X	-0.004	-0.004	0	%100
31	SR-1	X	-0.002	-0.002	0	%100
32	SR-2	X	0	0	0	%100
33	SR-3	X	-0.002	-0.002	0	%100
34	SRC-1	X	-0.001	-0.001	0	%100
35	SRC-2	X	-0.001	-0.001	0	%100
36	SRC-3	X	0	0	0	%100
37	FFTH-1	Z	-0.001	-0.001	0	%100
38	FFTH-2	Z	0	0	0	%100
39	FFTH-3	Z	-0.001	-0.001	0	%100
40	GSI-1A	Z	-0.000962	-0.000962	0	%100
41	GSI-1B	Z	-0.00089	-0.00089	0	%100
42	GSI-2A	Z	-0.000895	-0.000895	0	%100
43	GSI-2B	Z	-0.000815	-0.000815	0	%100
44	GSI-3A	Z	0	0	0	%100
45	GSI-3B	Z	0	0	0	%100
46	INT1	Z	-0.000934	-0.000934	0	%100
47	INT2	Z	0	0	0	%100
48	INT3	Z	0	0	0	%100
49	INT4	Z	-0.001	-0.001	0	%100
50	INT5	Z	-0.001	-0.001	0	%100
51	INT6	Z	-0.000934	-0.000934	0	%100
52	MP-1	Z	-0.001	-0.001	0	%100
53	MP-2	Z	-0.001	-0.001	0	%100
54	MP-3	Z	-0.001	-0.001	0	%100
55	MP-4	Z	-0.001	-0.001	0	%100
56	MP-5	Z	-0.001	-0.001	0	%100
57	MP-6	Z	-0.001	-0.001	0	%100
58	MP-7	Z	-0.001	-0.001	0	%100
59	MP-8	Z	-0.001	-0.001	0	%100
60	MP-9	Z	-0.001	-0.001	0	%100
61	MP-10	Z	-0.001	-0.001	0	%100
62	MP-11	Z	-0.001	-0.001	0	%100
63	MP-12	Z	-0.001	-0.001	0	%100
64	SA-1	Z	-0.001	-0.001	0	%100
65	SA-2	Z	-0.001	-0.001	0	%100
66	SA-3	Z	-0.002	-0.002	0	%100
67	SR-1	Z	-0.001	-0.001	0	%100
68	SR-2	Z	0	0	0	%100
69	SR-3	Z	-0.001	-0.001	0	%100



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Member Distributed Loads (BLC 20 : 30 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F...)	Start Location(ft.%)	End Location(ft.%)	
70	SRC-1	Z	-0.000805	-0.000805	0	%100
71	SRC-2	Z	-0.000739	-0.000739	0	%100
72	SRC-3	Z	0	0	0	%100

Member Distributed Loads (BLC 21 : 45 Wind - Ice)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F...)	Start Location(ft.%)	End Location(ft.%)	
1	FFTH-1	X	-0.002	-0.002	0	%100
2	FFTH-2	X	-0.0047	-0.0047	0	%100
3	FFTH-3	X	-0.002	-0.002	0	%100
4	GSI-1A	X	-0.001	-0.001	0	%100
5	GSI-1B	X	-0.001	-0.001	0	%100
6	GSI-2A	X	-0.001	-0.001	0	%100
7	GSI-2B	X	-0.001	-0.001	0	%100
8	GSI-3A	X	-0.00369	-0.00369	0	%100
9	GSI-3B	X	-0.00358	-0.00358	0	%100
10	INT1	X	-0.001	-0.001	0	%100
11	INT2	X	-0.00423	-0.00423	0	%100
12	INT3	X	-0.00423	-0.00423	0	%100
13	INT4	X	-0.002	-0.002	0	%100
14	INT5	X	-0.002	-0.002	0	%100
15	INT6	X	-0.001	-0.001	0	%100
16	MP-1	X	-0.002	-0.002	0	%100
17	MP-2	X	-0.002	-0.002	0	%100
18	MP-3	X	-0.002	-0.002	0	%100
19	MP-4	X	-0.002	-0.002	0	%100
20	MP-5	X	-0.002	-0.002	0	%100
21	MP-6	X	-0.002	-0.002	0	%100
22	MP-7	X	-0.002	-0.002	0	%100
23	MP-8	X	-0.002	-0.002	0	%100
24	MP-9	X	-0.002	-0.002	0	%100
25	MP-10	X	-0.002	-0.002	0	%100
26	MP-11	X	-0.002	-0.002	0	%100
27	MP-12	X	-0.002	-0.002	0	%100
28	SA-1	X	-0.000875	-0.000875	0	%100
29	SA-2	X	-0.002	-0.002	0	%100
30	SA-3	X	-0.003	-0.003	0	%100
31	SR-1	X	-0.001	-0.001	0	%100
32	SR-2	X	-0.00437	-0.00437	0	%100
33	SR-3	X	-0.002	-0.002	0	%100
34	SRC-1	X	-0.001	-0.001	0	%100
35	SRC-2	X	-0.00948	-0.00948	0	%100
36	SRC-3	X	-0.00322	-0.00322	0	%100
37	FFTH-1	Z	-0.001	-0.001	0	%100
38	FFTH-2	Z	-0.00057	-0.00057	0	%100
39	FFTH-3	Z	-0.002	-0.002	0	%100
40	GSI-1A	Z	-0.002	-0.002	0	%100
41	GSI-1B	Z	-0.001	-0.001	0	%100
42	GSI-2A	Z	-0.001	-0.001	0	%100
43	GSI-2B	Z	-0.000941	-0.000941	0	%100
44	GSI-3A	Z	-0.00407	-0.00407	0	%100
45	GSI-3B	Z	-0.00376	-0.00376	0	%100



Company : Tower Engineering Professionals
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Member Distributed Loads (BLC 21 : 45 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F. ...)	Start Location(ft. %)	End Location(ft. %)	
46	INT1	Z	-0.001	-0.001	0	%100
47	INT2	Z	-0.00463	-0.00463	0	%100
48	INT3	Z	-0.00463	-0.00463	0	%100
49	INT4	Z	-0.002	-0.002	0	%100
50	INT5	Z	-0.002	-0.002	0	%100
51	INT6	Z	-0.001	-0.001	0	%100
52	MP-1	Z	-0.002	-0.002	0	%100
53	MP-2	Z	-0.002	-0.002	0	%100
54	MP-3	Z	-0.002	-0.002	0	%100
55	MP-4	Z	-0.002	-0.002	0	%100
56	MP-5	Z	-0.002	-0.002	0	%100
57	MP-6	Z	-0.002	-0.002	0	%100
58	MP-7	Z	-0.002	-0.002	0	%100
59	MP-8	Z	-0.002	-0.002	0	%100
60	MP-9	Z	-0.002	-0.002	0	%100
61	MP-10	Z	-0.002	-0.002	0	%100
62	MP-11	Z	-0.002	-0.002	0	%100
63	MP-12	Z	-0.002	-0.002	0	%100
64	SA-1	Z	-0.000794	-0.000794	0	%100
65	SA-2	Z	-0.002	-0.002	0	%100
66	SA-3	Z	-0.003	-0.003	0	%100
67	SR-1	Z	-0.001	-0.001	0	%100
68	SR-2	Z	-0.00507	-0.00507	0	%100
69	SR-3	Z	-0.002	-0.002	0	%100
70	SRC-1	Z	-0.001	-0.001	0	%100
71	SRC-2	Z	-0.00853	-0.00853	0	%100
72	SRC-3	Z	-0.00034	-0.00034	0	%100

Member Distributed Loads (BLC 22 : 60 Wind - Ice)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F. ...)	Start Location(ft. %)	End Location(ft. %)	
1	FFTH-1	X	-0.00778	-0.00778	0	%100
2	FFTH-2	X	-0.00642	-0.00642	0	%100
3	FFTH-3	X	-0.001	-0.001	0	%100
4	GSI-1A	X	-0.001	-0.001	0	%100
5	GSI-1B	X	-0.00978	-0.00978	0	%100
6	GSI-2A	X	-0.00574	-0.00574	0	%100
7	GSI-2B	X	-0.00523	-0.00523	0	%100
8	GSI-3A	X	-0.00505	-0.00505	0	%100
9	GSI-3B	X	-0.00489	-0.00489	0	%100
10	INT1	X	-0.00648	-0.00648	0	%100
11	INT2	X	-0.00578	-0.00578	0	%100
12	INT3	X	-0.00578	-0.00578	0	%100
13	INT4	X	-0.001	-0.001	0	%100
14	INT5	X	-0.001	-0.001	0	%100
15	INT6	X	-0.00648	-0.00648	0	%100
16	MP-1	X	-0.001	-0.001	0	%100
17	MP-2	X	-0.001	-0.001	0	%100
18	MP-3	X	-0.001	-0.001	0	%100
19	MP-4	X	-0.001	-0.001	0	%100
20	MP-5	X	-0.001	-0.001	0	%100
21	MP-6	X	-0.001	-0.001	0	%100



Company : Tower Engineering Professionals
 Designer : GJS
 Job Number : TEP No. 217612.798269
 Model Name : CCI BU No. 842869

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Member Distributed Loads (BLC 22 : 60 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F. ...)	Start Location(ft. %)	End Location(ft. %)	
22	MP-7	X	-0.001	-0.001	0	%100
23	MP-8	X	-0.001	-0.001	0	%100
24	MP-9	X	-0.001	-0.001	0	%100
25	MP-10	X	-0.001	-0.001	0	%100
26	MP-11	X	-0.001	-0.001	0	%100
27	MP-12	X	-0.001	-0.001	0	%100
28	SA-1	X	0	0	0	%100
29	SA-2	X	-0.002	-0.002	0	%100
30	SA-3	X	-0.002	-0.002	0	%100
31	SR-1	X	-0.00693	-0.00693	0	%100
32	SR-2	X	-0.00597	-0.00597	0	%100
33	SR-3	X	-0.001	-0.001	0	%100
34	SRC-1	X	-0.00888	-0.00888	0	%100
35	SRC-2	X	-0.00474	-0.00474	0	%100
36	SRC-3	X	-0.0044	-0.0044	0	%100
37	FFTH-1	Z	-0.001	-0.001	0	%100
38	FFTH-2	Z	-0.001	-0.001	0	%100
39	FFTH-3	Z	-0.003	-0.003	0	%100
40	GSI-1A	Z	-0.002	-0.002	0	%100
41	GSI-1B	Z	-0.002	-0.002	0	%100
42	GSI-2A	Z	-0.00895	-0.00895	0	%100
43	GSI-2B	Z	-0.00815	-0.00815	0	%100
44	GSI-3A	Z	-0.00962	-0.00962	0	%100
45	GSI-3B	Z	-0.0089	-0.0089	0	%100
46	INT1	Z	-0.00934	-0.00934	0	%100
47	INT2	Z	-0.001	-0.001	0	%100
48	INT3	Z	-0.001	-0.001	0	%100
49	INT4	Z	-0.002	-0.002	0	%100
50	INT5	Z	-0.002	-0.002	0	%100
51	INT6	Z	-0.00934	-0.00934	0	%100
52	MP-1	Z	-0.002	-0.002	0	%100
53	MP-2	Z	-0.002	-0.002	0	%100
54	MP-3	Z	-0.002	-0.002	0	%100
55	MP-4	Z	-0.002	-0.002	0	%100
56	MP-5	Z	-0.002	-0.002	0	%100
57	MP-6	Z	-0.002	-0.002	0	%100
58	MP-7	Z	-0.002	-0.002	0	%100
59	MP-8	Z	-0.002	-0.002	0	%100
60	MP-9	Z	-0.002	-0.002	0	%100
61	MP-10	Z	-0.002	-0.002	0	%100
62	MP-11	Z	-0.002	-0.002	0	%100
63	MP-12	Z	-0.002	-0.002	0	%100
64	SA-1	Z	0	0	0	%100
65	SA-2	Z	-0.004	-0.004	0	%100
66	SA-3	Z	-0.003	-0.003	0	%100
67	SR-1	Z	-0.001	-0.001	0	%100
68	SR-2	Z	-0.001	-0.001	0	%100
69	SR-3	Z	-0.002	-0.002	0	%100
70	SRC-1	Z	-0.002	-0.002	0	%100
71	SRC-2	Z	-0.00739	-0.00739	0	%100
72	SRC-3	Z	-0.00805	-0.00805	0	%100



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 Designer : GJS
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 Model Name : CCI BU No. 842869

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Member Distributed Loads (BLC 23 : 90 Wind - Ice)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F. ...)	Start Location(ft.%)	End Location(ft.%)	
1	FFTH-1	Z	0	0	%100	
2	FFTH-2	Z	-0.003	-0.003	0	%100
3	FFTH-3	Z	-0.003	-0.003	0	%100
4	GSI-1A	Z	-0.002	-0.002	0	%100
5	GSI-1B	Z	-0.002	-0.002	0	%100
6	GSI-2A	Z	0	0	0	%100
7	GSI-2B	Z	0	0	0	%100
8	GSI-3A	Z	-0.002	-0.002	0	%100
9	GSI-3B	Z	-0.002	-0.002	0	%100
10	INT1	Z	0	0	0	%100
11	INT2	Z	-0.002	-0.002	0	%100
12	INT3	Z	-0.002	-0.002	0	%100
13	INT4	Z	-0.002	-0.002	0	%100
14	INT5	Z	-0.002	-0.002	0	%100
15	INT6	Z	0	0	0	%100
16	MP-1	Z	-0.003	-0.003	0	%100
17	MP-2	Z	-0.003	-0.003	0	%100
18	MP-3	Z	-0.003	-0.003	0	%100
19	MP-4	Z	-0.003	-0.003	0	%100
20	MP-5	Z	-0.003	-0.003	0	%100
21	MP-6	Z	-0.003	-0.003	0	%100
22	MP-7	Z	-0.003	-0.003	0	%100
23	MP-8	Z	-0.003	-0.003	0	%100
24	MP-9	Z	-0.003	-0.003	0	%100
25	MP-10	Z	-0.003	-0.003	0	%100
26	MP-11	Z	-0.003	-0.003	0	%100
27	MP-12	Z	-0.003	-0.003	0	%100
28	SA-1	Z	-0.002	-0.002	0	%100
29	SA-2	Z	-0.005	-0.005	0	%100
30	SA-3	Z	-0.002	-0.002	0	%100
31	SR-1	Z	0	0	0	%100
32	SR-2	Z	-0.002	-0.002	0	%100
33	SR-3	Z	-0.002	-0.002	0	%100
34	SRC-1	Z	-0.002	-0.002	0	%100
35	SRC-2	Z	0	0	0	%100
36	SRC-3	Z	-0.002	-0.002	0	%100

Member Distributed Loads (BLC 24 : 120 Wind - Ice)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F. ...)	Start Location(ft.%)	End Location(ft.%)	
1	FFTH-1	X	0.00778	0.00778	0	%100
2	FFTH-2	X	0.001	0.001	0	%100
3	FFTH-3	X	0.00642	0.00642	0	%100
4	GSI-1A	X	0.00505	0.00505	0	%100
5	GSI-1B	X	0.00489	0.00489	0	%100
6	GSI-2A	X	0.00574	0.00574	0	%100
7	GSI-2B	X	0.00523	0.00523	0	%100
8	GSI-3A	X	0.001	0.001	0	%100
9	GSI-3B	X	0.00978	0.00978	0	%100
10	INT1	X	0.00648	0.00648	0	%100
11	INT2	X	0.001	0.001	0	%100
12	INT3	X	0.001	0.001	0	%100



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Member Distributed Loads (BLC 24 : 120 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F. ...)	Start Location(ft.%)	End Location(ft.%)	
13	INT4	X	0.00578	0.00578	0	%100
14	INT5	X	0.00578	0.00578	0	%100
15	INT6	X	0.00648	0.00648	0	%100
16	MP-1	X	0.001	0.001	0	%100
17	MP-2	X	0.001	0.001	0	%100
18	MP-3	X	0.001	0.001	0	%100
19	MP-4	X	0.001	0.001	0	%100
20	MP-5	X	0.001	0.001	0	%100
21	MP-6	X	0.001	0.001	0	%100
22	MP-7	X	0.001	0.001	0	%100
23	MP-8	X	0.001	0.001	0	%100
24	MP-9	X	0.001	0.001	0	%100
25	MP-10	X	0.001	0.001	0	%100
26	MP-11	X	0.001	0.001	0	%100
27	MP-12	X	0.001	0.001	0	%100
28	SA-1	X	0.002	0.002	0	%100
29	SA-2	X	0.002	0.002	0	%100
30	SA-3	X	0	0	0	%100
31	SR-1	X	0.00693	0.00693	0	%100
32	SR-2	X	0.001	0.001	0	%100
33	SR-3	X	0.00597	0.00597	0	%100
34	SRC-1	X	0.0044	0.0044	0	%100
35	SRC-2	X	0.00474	0.00474	0	%100
36	SRC-3	X	0.0088	0.0088	0	%100
37	FFTH-1	Z	-0.001	-0.001	0	%100
38	FFTH-2	Z	-0.003	-0.003	0	%100
39	FFTH-3	Z	-0.001	-0.001	0	%100
40	GSI-1A	Z	-0.00962	-0.00962	0	%100
41	GSI-1B	Z	-0.0089	-0.0089	0	%100
42	GSI-2A	Z	-0.00895	-0.00895	0	%100
43	GSI-2B	Z	-0.00815	-0.00815	0	%100
44	GSI-3A	Z	-0.002	-0.002	0	%100
45	GSI-3B	Z	-0.002	-0.002	0	%100
46	INT1	Z	-0.00934	-0.00934	0	%100
47	INT2	Z	-0.002	-0.002	0	%100
48	INT3	Z	-0.002	-0.002	0	%100
49	INT4	Z	-0.001	-0.001	0	%100
50	INT5	Z	-0.001	-0.001	0	%100
51	INT6	Z	-0.00934	-0.00934	0	%100
52	MP-1	Z	-0.002	-0.002	0	%100
53	MP-2	Z	-0.002	-0.002	0	%100
54	MP-3	Z	-0.002	-0.002	0	%100
55	MP-4	Z	-0.002	-0.002	0	%100
56	MP-5	Z	-0.002	-0.002	0	%100
57	MP-6	Z	-0.002	-0.002	0	%100
58	MP-7	Z	-0.002	-0.002	0	%100
59	MP-8	Z	-0.002	-0.002	0	%100
60	MP-9	Z	-0.002	-0.002	0	%100
61	MP-10	Z	-0.002	-0.002	0	%100
62	MP-11	Z	-0.002	-0.002	0	%100
63	MP-12	Z	-0.002	-0.002	0	%100
64	SA-1	Z	-0.003	-0.003	0	%100



Company : Tower Engineering Professionals
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Member Distributed Loads (BLC 24 : 120 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F. ...)	Start Location(ft. %)	End Location(ft. %)	
65	SA-2	Z	-0.04	-0.04	0	%100
66	SA-3	Z	0	0	0	%100
67	SR-1	Z	-0.001	-0.001	0	%100
68	SR-2	Z	-0.002	-0.002	0	%100
69	SR-3	Z	-0.001	-0.001	0	%100
70	SRC-1	Z	-0.00805	-0.00805	0	%100
71	SRC-2	Z	-0.00739	-0.00739	0	%100
72	SRC-3	Z	-0.002	-0.002	0	%100

Member Distributed Loads (BLC 25 : 135 Wind - Ice)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F. ...)	Start Location(ft. %)	End Location(ft. %)	
1	FFTH-1	X	.002	.002	0	%100
2	FFTH-2	X	.002	.002	0	%100
3	FFTH-3	X	.00047	.00047	0	%100
4	GSI-1A	X	.000369	.000369	0	%100
5	GSI-1B	X	.000358	.000358	0	%100
6	GSI-2A	X	.001	.001	0	%100
7	GSI-2B	X	.001	.001	0	%100
8	GSI-3A	X	.001	.001	0	%100
9	GSI-3B	X	.001	.001	0	%100
10	INT1	X	.001	.001	0	%100
11	INT2	X	.002	.002	0	%100
12	INT3	X	.002	.002	0	%100
13	INT4	X	.000423	.000423	0	%100
14	INT5	X	.000423	.000423	0	%100
15	INT6	X	.001	.001	0	%100
16	MP-1	X	.002	.002	0	%100
17	MP-2	X	.002	.002	0	%100
18	MP-3	X	.002	.002	0	%100
19	MP-4	X	.002	.002	0	%100
20	MP-5	X	.002	.002	0	%100
21	MP-6	X	.002	.002	0	%100
22	MP-7	X	.002	.002	0	%100
23	MP-8	X	.002	.002	0	%100
24	MP-9	X	.002	.002	0	%100
25	MP-10	X	.002	.002	0	%100
26	MP-11	X	.002	.002	0	%100
27	MP-12	X	.002	.002	0	%100
28	SA-1	X	.003	.003	0	%100
29	SA-2	X	.002	.002	0	%100
30	SA-3	X	.000875	.000875	0	%100
31	SR-1	X	.001	.001	0	%100
32	SR-2	X	.002	.002	0	%100
33	SR-3	X	.000437	.000437	0	%100
34	SRC-1	X	.000322	.000322	0	%100
35	SRC-2	X	.000948	.000948	0	%100
36	SRC-3	X	.001	.001	0	%100
37	FFTH-1	Z	-.001	-.001	0	%100
38	FFTH-2	Z	-.002	-.002	0	%100
39	FFTH-3	Z	-.00057	-.00057	0	%100
40	GSI-1A	Z	-.000407	-.000407	0	%100



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Member Distributed Loads (BLC 25 : 135 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F. ...)	Start Location(ft. %)	End Location(ft. %)	
41	GSI-1B	Z	-.000376	-.000376	0	%100
42	GSI-2A	Z	-.001	-.001	0	%100
43	GSI-2B	Z	-.000941	-.000941	0	%100
44	GSI-3A	Z	-.002	-.002	0	%100
45	GSI-3B	Z	-.001	-.001	0	%100
46	INT1	Z	-.001	-.001	0	%100
47	INT2	Z	-.002	-.002	0	%100
48	INT3	Z	-.002	-.002	0	%100
49	INT4	Z	-.000463	-.000463	0	%100
50	INT5	Z	-.000463	-.000463	0	%100
51	INT6	Z	-.001	-.001	0	%100
52	MP-1	Z	-.002	-.002	0	%100
53	MP-2	Z	-.002	-.002	0	%100
54	MP-3	Z	-.002	-.002	0	%100
55	MP-4	Z	-.002	-.002	0	%100
56	MP-5	Z	-.002	-.002	0	%100
57	MP-6	Z	-.002	-.002	0	%100
58	MP-7	Z	-.002	-.002	0	%100
59	MP-8	Z	-.002	-.002	0	%100
60	MP-9	Z	-.002	-.002	0	%100
61	MP-10	Z	-.002	-.002	0	%100
62	MP-11	Z	-.002	-.002	0	%100
63	MP-12	Z	-.002	-.002	0	%100
64	SA-1	Z	-.003	-.003	0	%100
65	SA-2	Z	-.002	-.002	0	%100
66	SA-3	Z	-.000794	-.000794	0	%100
67	SR-1	Z	-.001	-.001	0	%100
68	SR-2	Z	-.002	-.002	0	%100
69	SR-3	Z	-.000507	-.000507	0	%100
70	SRC-1	Z	-.00034	-.00034	0	%100
71	SRC-2	Z	-.000853	-.000853	0	%100
72	SRC-3	Z	-.001	-.001	0	%100

Member Distributed Loads (BLC 26 : 150 Wind - Ice)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F. ...)	Start Location(ft. %)	End Location(ft. %)	
1	FFTH-1	X	.002	.002	0	%100
2	FFTH-2	X	.002	.002	0	%100
3	FFTH-3	X	0	0	0	%100
4	GSI-1A	X	0	0	0	%100
5	GSI-1B	X	0	0	0	%100
6	GSI-2A	X	.002	.002	0	%100
7	GSI-2B	X	.002	.002	0	%100
8	GSI-3A	X	.002	.002	0	%100
9	GSI-3B	X	.001	.001	0	%100
10	INT1	X	.002	.002	0	%100
11	INT2	X	.002	.002	0	%100
12	INT3	X	.002	.002	0	%100
13	INT4	X	0	0	0	%100
14	INT5	X	0	0	0	%100
15	INT6	X	.002	.002	0	%100
16	MP-1	X	.002	.002	0	%100



Company : Tower Engineering Professionals
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Member Distributed Loads (BLC 26 : 150 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F...)	Start Location(ft. %)	End Location(ft. %)	
17	MP-2	X	.002	.002	0	%100
18	MP-3	X	.002	.002	0	%100
19	MP-4	X	.002	.002	0	%100
20	MP-5	X	.002	.002	0	%100
21	MP-6	X	.002	.002	0	%100
22	MP-7	X	.002	.002	0	%100
23	MP-8	X	.002	.002	0	%100
24	MP-9	X	.002	.002	0	%100
25	MP-10	X	.002	.002	0	%100
26	MP-11	X	.002	.002	0	%100
27	MP-12	X	.002	.002	0	%100
28	SA-1	X	.004	.004	0	%100
29	SA-2	X	.002	.002	0	%100
30	SA-3	X	.002	.002	0	%100
31	SR-1	X	.002	.002	0	%100
32	SR-2	X	.002	.002	0	%100
33	SR-3	X	0	0	0	%100
34	SRC-1	X	0	0	0	%100
35	SRC-2	X	.001	.001	0	%100
36	SRC-3	X	.001	.001	0	%100
37	FFTH-1	Z	-.001	-.001	0	%100
38	FFTH-2	Z	-.001	-.001	0	%100
39	FFTH-3	Z	0	0	0	%100
40	GSI-1A	Z	0	0	0	%100
41	GSI-1B	Z	0	0	0	%100
42	GSI-2A	Z	-.000895	-.000895	0	%100
43	GSI-2B	Z	-.000815	-.000815	0	%100
44	GSI-3A	Z	-.000962	-.000962	0	%100
45	GSI-3B	Z	-.00089	-.00089	0	%100
46	INT1	Z	-.000934	-.000934	0	%100
47	INT2	Z	-.001	-.001	0	%100
48	INT3	Z	-.001	-.001	0	%100
49	INT4	Z	0	0	0	%100
50	INT5	Z	0	0	0	%100
51	INT6	Z	-.000934	-.000934	0	%100
52	MP-1	Z	-.001	-.001	0	%100
53	MP-2	Z	-.001	-.001	0	%100
54	MP-3	Z	-.001	-.001	0	%100
55	MP-4	Z	-.001	-.001	0	%100
56	MP-5	Z	-.001	-.001	0	%100
57	MP-6	Z	-.001	-.001	0	%100
58	MP-7	Z	-.001	-.001	0	%100
59	MP-8	Z	-.001	-.001	0	%100
60	MP-9	Z	-.001	-.001	0	%100
61	MP-10	Z	-.001	-.001	0	%100
62	MP-11	Z	-.001	-.001	0	%100
63	MP-12	Z	-.001	-.001	0	%100
64	SA-1	Z	-.002	-.002	0	%100
65	SA-2	Z	-.001	-.001	0	%100
66	SA-3	Z	-.001	-.001	0	%100
67	SR-1	Z	-.001	-.001	0	%100
68	SR-2	Z	-.001	-.001	0	%100



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

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F...)	Start Location(ft. %)	End Location(ft. %)	
69	SR-3	Z	0	0	0	%100
70	SRC-1	Z	0	0	0	%100
71	SRC-2	Z	-.000739	-.000739	0	%100
72	SRC-3	Z	-.000805	-.000805	0	%100

Member Distributed Loads (BLC 27 : 180 Wind - Ice)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F...)	Start Location(ft. %)	End Location(ft. %)	
1	FFTH-1	X	.003	.003	0	%100
2	FFTH-2	X	.003	.003	0	%100
3	FFTH-3	X	.003	.003	0	%100
4	GSI-1A	X	.002	.002	0	%100
5	GSI-1B	X	.002	.002	0	%100
6	GSI-2A	X	.002	.002	0	%100
7	GSI-2B	X	.002	.002	0	%100
8	GSI-3A	X	.002	.002	0	%100
9	GSI-3B	X	.002	.002	0	%100
10	INT1	X	.003	.003	0	%100
11	INT2	X	.002	.002	0	%100
12	INT3	X	.002	.002	0	%100
13	INT4	X	.002	.002	0	%100
14	INT5	X	.002	.002	0	%100
15	INT6	X	.003	.003	0	%100
16	MP-1	X	.002	.002	0	%100
17	MP-2	X	.002	.002	0	%100
18	MP-3	X	.002	.002	0	%100
19	MP-4	X	.002	.002	0	%100
20	MP-5	X	.002	.002	0	%100
21	MP-6	X	.002	.002	0	%100
22	MP-7	X	.002	.002	0	%100
23	MP-8	X	.002	.002	0	%100
24	MP-9	X	.002	.002	0	%100
25	MP-10	X	.002	.002	0	%100
26	MP-11	X	.002	.002	0	%100
27	MP-12	X	.002	.002	0	%100
28	SA-1	X	.005	.005	0	%100
29	SA-2	X	.004	.004	0	%100
30	SA-3	X	.005	.005	0	%100
31	SR-1	X	.003	.003	0	%100
32	SR-2	X	.002	.002	0	%100
33	SR-3	X	.002	.002	0	%100
34	SRC-1	X	.002	.002	0	%100
35	SRC-2	X	.002	.002	0	%100
36	SRC-3	X	.002	.002	0	%100

Member Distributed Loads (BLC 28 : 210 Wind - Ice)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F...)	Start Location(ft. %)	End Location(ft. %)	
1	FFTH-1	X	.002	.002	0	%100
2	FFTH-2	X	0	0	0	%100
3	FFTH-3	X	.002	.002	0	%100
4	GSI-1A	X	.002	.002	0	%100
5	GSI-1B	X	.001	.001	0	%100



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Member Distributed Loads (BLC 28 : 210 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F...)	Start Location(ft. %)	End Location(ft. %)	
6	GSI-2A	X	.002	.002	0	%100
7	GSI-2B	X	.002	.002	0	%100
8	GSI-3A	X	0	0	0	%100
9	GSI-3B	X	0	0	0	%100
10	INT1	X	.002	.002	0	%100
11	INT2	X	0	0	0	%100
12	INT3	X	0	0	0	%100
13	INT4	X	.002	.002	0	%100
14	INT5	X	.002	.002	0	%100
15	INT6	X	.002	.002	0	%100
16	MP-1	X	.002	.002	0	%100
17	MP-2	X	.002	.002	0	%100
18	MP-3	X	.002	.002	0	%100
19	MP-4	X	.002	.002	0	%100
20	MP-5	X	.002	.002	0	%100
21	MP-6	X	.002	.002	0	%100
22	MP-7	X	.002	.002	0	%100
23	MP-8	X	.002	.002	0	%100
24	MP-9	X	.002	.002	0	%100
25	MP-10	X	.002	.002	0	%100
26	MP-11	X	.002	.002	0	%100
27	MP-12	X	.002	.002	0	%100
28	SA-1	X	.002	.002	0	%100
29	SA-2	X	.002	.002	0	%100
30	SA-3	X	.004	.004	0	%100
31	SR-1	X	.002	.002	0	%100
32	SR-2	X	0	0	0	%100
33	SR-3	X	.002	.002	0	%100
34	SRC-1	X	.001	.001	0	%100
35	SRC-2	X	.001	.001	0	%100
36	SRC-3	X	0	0	0	%100
37	FFTH-1	Z	.001	.001	0	%100
38	FFTH-2	Z	0	0	0	%100
39	FFTH-3	Z	.001	.001	0	%100
40	GSI-1A	Z	.000962	.000962	0	%100
41	GSI-1B	Z	.00089	.00089	0	%100
42	GSI-2A	Z	.000895	.000895	0	%100
43	GSI-2B	Z	.000815	.000815	0	%100
44	GSI-3A	Z	0	0	0	%100
45	GSI-3B	Z	0	0	0	%100
46	INT1	Z	.000934	.000934	0	%100
47	INT2	Z	0	0	0	%100
48	INT3	Z	0	0	0	%100
49	INT4	Z	.001	.001	0	%100
50	INT5	Z	.001	.001	0	%100
51	INT6	Z	.000934	.000934	0	%100
52	MP-1	Z	.001	.001	0	%100
53	MP-2	Z	.001	.001	0	%100
54	MP-3	Z	.001	.001	0	%100
55	MP-4	Z	.001	.001	0	%100
56	MP-5	Z	.001	.001	0	%100
57	MP-6	Z	.001	.001	0	%100



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Member Distributed Loads (BLC 28 : 210 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F...)	Start Location(ft. %)	End Location(ft. %)	
58	MP-7	Z	.001	.001	0	%100
59	MP-8	Z	.001	.001	0	%100
60	MP-9	Z	.001	.001	0	%100
61	MP-10	Z	.001	.001	0	%100
62	MP-11	Z	.001	.001	0	%100
63	MP-12	Z	.001	.001	0	%100
64	SA-1	Z	.001	.001	0	%100
65	SA-2	Z	.001	.001	0	%100
66	SA-3	Z	.002	.002	0	%100
67	SR-1	Z	.001	.001	0	%100
68	SR-2	Z	0	0	0	%100
69	SR-3	Z	.001	.001	0	%100
70	SRC-1	Z	.000805	.000805	0	%100
71	SRC-2	Z	.000739	.000739	0	%100
72	SRC-3	Z	0	0	0	%100

Member Distributed Loads (BLC 29 : 225 Wind - Ice)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F...)	Start Location(ft. %)	End Location(ft. %)	
1	FFTH-1	X	.002	.002	0	%100
2	FFTH-2	X	.00047	.00047	0	%100
3	FFTH-3	X	.002	.002	0	%100
4	GSI-1A	X	.001	.001	0	%100
5	GSI-1B	X	.001	.001	0	%100
6	GSI-2A	X	.001	.001	0	%100
7	GSI-2B	X	.001	.001	0	%100
8	GSI-3A	X	.000369	.000369	0	%100
9	GSI-3B	X	.000358	.000358	0	%100
10	INT1	X	.001	.001	0	%100
11	INT2	X	.000423	.000423	0	%100
12	INT3	X	.000423	.000423	0	%100
13	INT4	X	.002	.002	0	%100
14	INT5	X	.002	.002	0	%100
15	INT6	X	.001	.001	0	%100
16	MP-1	X	.002	.002	0	%100
17	MP-2	X	.002	.002	0	%100
18	MP-3	X	.002	.002	0	%100
19	MP-4	X	.002	.002	0	%100
20	MP-5	X	.002	.002	0	%100
21	MP-6	X	.002	.002	0	%100
22	MP-7	X	.002	.002	0	%100
23	MP-8	X	.002	.002	0	%100
24	MP-9	X	.002	.002	0	%100
25	MP-10	X	.002	.002	0	%100
26	MP-11	X	.002	.002	0	%100
27	MP-12	X	.002	.002	0	%100
28	SA-1	X	.000875	.000875	0	%100
29	SA-2	X	.002	.002	0	%100
30	SA-3	X	.003	.003	0	%100
31	SR-1	X	.001	.001	0	%100
32	SR-2	X	.000437	.000437	0	%100
33	SR-3	X	.002	.002	0	%100



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Member Distributed Loads (BLC 29 : 225 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[lb/ft. ...]	End Magnitude[lb/ft. F. ...]	Start Location[ft. %]	End Location[ft. %]	
34	SRC-1	X	.001	.001	0	%100
35	SRC-2	X	.000948	.000948	0	%100
36	SRC-3	X	.000322	.000322	0	%100
37	FFTH-1	Z	.001	.001	0	%100
38	FFTH-2	Z	.00057	.00057	0	%100
39	FFTH-3	Z	.002	.002	0	%100
40	GSI-1A	Z	.002	.002	0	%100
41	GSI-1B	Z	.001	.001	0	%100
42	GSI-2A	Z	.001	.001	0	%100
43	GSI-2B	Z	.000941	.000941	0	%100
44	GSI-3A	Z	.000407	.000407	0	%100
45	GSI-3B	Z	.000376	.000376	0	%100
46	INT1	Z	.001	.001	0	%100
47	INT2	Z	.000463	.000463	0	%100
48	INT3	Z	.000463	.000463	0	%100
49	INT4	Z	.002	.002	0	%100
50	INT5	Z	.002	.002	0	%100
51	INT6	Z	.001	.001	0	%100
52	MP-1	Z	.002	.002	0	%100
53	MP-2	Z	.002	.002	0	%100
54	MP-3	Z	.002	.002	0	%100
55	MP-4	Z	.002	.002	0	%100
56	MP-5	Z	.002	.002	0	%100
57	MP-6	Z	.002	.002	0	%100
58	MP-7	Z	.002	.002	0	%100
59	MP-8	Z	.002	.002	0	%100
60	MP-9	Z	.002	.002	0	%100
61	MP-10	Z	.002	.002	0	%100
62	MP-11	Z	.002	.002	0	%100
63	MP-12	Z	.002	.002	0	%100
64	SA-1	Z	.000794	.000794	0	%100
65	SA-2	Z	.002	.002	0	%100
66	SA-3	Z	.003	.003	0	%100
67	SR-1	Z	.001	.001	0	%100
68	SR-2	Z	.000507	.000507	0	%100
69	SR-3	Z	.002	.002	0	%100
70	SRC-1	Z	.001	.001	0	%100
71	SRC-2	Z	.000853	.000853	0	%100
72	SRC-3	Z	.00034	.00034	0	%100

Member Distributed Loads (BLC 30 : 240 Wind - Ice)

Member Label	Direction	Start Magnitude[lb/ft. ...]	End Magnitude[lb/ft. F. ...]	Start Location[ft. %]	End Location[ft. %]	
1	FFTH-1	X	.000778	.000778	0	%100
2	FFTH-2	X	.000642	.000642	0	%100
3	FFTH-3	X	.001	.001	0	%100
4	GSI-1A	X	.001	.001	0	%100
5	GSI-1B	X	.000978	.000978	0	%100
6	GSI-2A	X	.000574	.000574	0	%100
7	GSI-2B	X	.000523	.000523	0	%100
8	GSI-3A	X	.000505	.000505	0	%100
9	GSI-3B	X	.000489	.000489	0	%100



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Member Distributed Loads (BLC 30 : 240 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[lb/ft. ...]	End Magnitude[lb/ft. F. ...]	Start Location[ft. %]	End Location[ft. %]	
10	INT1	X	.000648	.000648	0	%100
11	INT2	X	.000578	.000578	0	%100
12	INT3	X	.000578	.000578	0	%100
13	INT4	X	.001	.001	0	%100
14	INT5	X	.001	.001	0	%100
15	INT6	X	.000648	.000648	0	%100
16	MP-1	X	.001	.001	0	%100
17	MP-2	X	.001	.001	0	%100
18	MP-3	X	.001	.001	0	%100
19	MP-4	X	.001	.001	0	%100
20	MP-5	X	.001	.001	0	%100
21	MP-6	X	.001	.001	0	%100
22	MP-7	X	.001	.001	0	%100
23	MP-8	X	.001	.001	0	%100
24	MP-9	X	.001	.001	0	%100
25	MP-10	X	.001	.001	0	%100
26	MP-11	X	.001	.001	0	%100
27	MP-12	X	.001	.001	0	%100
28	SA-1	X	.002	.002	0	%100
29	SA-2	X	.002	.002	0	%100
30	SA-3	X	.002	.002	0	%100
31	SR-1	X	.000693	.000693	0	%100
32	SR-2	X	.000597	.000597	0	%100
33	SR-3	X	.001	.001	0	%100
34	SRC-1	X	.00088	.00088	0	%100
35	SRC-2	X	.000474	.000474	0	%100
36	SRC-3	X	.00044	.00044	0	%100
37	FFTH-1	Z	.001	.001	0	%100
38	FFTH-2	Z	.001	.001	0	%100
39	FFTH-3	Z	.003	.003	0	%100
40	GSI-1A	Z	.002	.002	0	%100
41	GSI-1B	Z	.002	.002	0	%100
42	GSI-2A	Z	.000895	.000895	0	%100
43	GSI-2B	Z	.000815	.000815	0	%100
44	GSI-3A	Z	.000962	.000962	0	%100
45	GSI-3B	Z	.00089	.00089	0	%100
46	INT1	Z	.000934	.000934	0	%100
47	INT2	Z	.001	.001	0	%100
48	INT3	Z	.001	.001	0	%100
49	INT4	Z	.002	.002	0	%100
50	INT5	Z	.002	.002	0	%100
51	INT6	Z	.000934	.000934	0	%100
52	MP-1	Z	.002	.002	0	%100
53	MP-2	Z	.002	.002	0	%100
54	MP-3	Z	.002	.002	0	%100
55	MP-4	Z	.002	.002	0	%100
56	MP-5	Z	.002	.002	0	%100
57	MP-6	Z	.002	.002	0	%100
58	MP-7	Z	.002	.002	0	%100
59	MP-8	Z	.002	.002	0	%100
60	MP-9	Z	.002	.002	0	%100
61	MP-10	Z	.002	.002	0	%100



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Member Distributed Loads (BLC 30 : 240 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[lb/ft. ...]	End Magnitude[lb/ft. F...]	Start Location[ft. %]	End Location[ft. %]	
62	MP-11	Z	.002	.002	0	%100
63	MP-12	Z	.002	.002	0	%100
64	SA-1	Z	0	0	0	%100
65	SA-2	Z	.004	.004	0	%100
66	SA-3	Z	.003	.003	0	%100
67	SR-1	Z	.001	.001	0	%100
68	SR-2	Z	.001	.001	0	%100
69	SR-3	Z	.002	.002	0	%100
70	SRC-1	Z	.002	.002	0	%100
71	SRC-2	Z	.000739	.000739	0	%100
72	SRC-3	Z	.000805	.000805	0	%100

Member Distributed Loads (BLC 31 : 270 Wind - Ice)

Member Label	Direction	Start Magnitude[lb/ft. ...]	End Magnitude[lb/ft. F...]	Start Location[ft. %]	End Location[ft. %]	
1	FFTH-1	Z	0	0	0	%100
2	FFTH-2	Z	.003	.003	0	%100
3	FFTH-3	Z	.003	.003	0	%100
4	GSI-1A	Z	.002	.002	0	%100
5	GSI-1B	Z	.002	.002	0	%100
6	GSI-2A	Z	0	0	0	%100
7	GSI-2B	Z	0	0	0	%100
8	GSI-3A	Z	.002	.002	0	%100
9	GSI-3B	Z	.002	.002	0	%100
10	INT1	Z	0	0	0	%100
11	INT2	Z	.002	.002	0	%100
12	INT3	Z	.002	.002	0	%100
13	INT4	Z	.002	.002	0	%100
14	INT5	Z	.002	.002	0	%100
15	INT6	Z	0	0	0	%100
16	MP-1	Z	.003	.003	0	%100
17	MP-2	Z	.003	.003	0	%100
18	MP-3	Z	.003	.003	0	%100
19	MP-4	Z	.003	.003	0	%100
20	MP-5	Z	.003	.003	0	%100
21	MP-6	Z	.003	.003	0	%100
22	MP-7	Z	.003	.003	0	%100
23	MP-8	Z	.003	.003	0	%100
24	MP-9	Z	.003	.003	0	%100
25	MP-10	Z	.003	.003	0	%100
26	MP-11	Z	.003	.003	0	%100
27	MP-12	Z	.003	.003	0	%100
28	SA-1	Z	.002	.002	0	%100
29	SA-2	Z	.005	.005	0	%100
30	SA-3	Z	.002	.002	0	%100
31	SR-1	Z	0	0	0	%100
32	SR-2	Z	.002	.002	0	%100
33	SR-3	Z	.002	.002	0	%100
34	SRC-1	Z	.002	.002	0	%100
35	SRC-2	Z	0	0	0	%100
36	SRC-3	Z	.002	.002	0	%100



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Member Distributed Loads (BLC 32 : 300 Wind - Ice)

Member Label	Direction	Start Magnitude[lb/ft. ...]	End Magnitude[lb/ft. F...]	Start Location[ft. %]	End Location[ft. %]	
1	FFTH-1	X	-0.00778	-0.00778	0	%100
2	FFTH-2	X	-.001	-.001	0	%100
3	FFTH-3	X	-.000642	-.000642	0	%100
4	GSI-1A	X	-.000505	-.000505	0	%100
5	GSI-1B	X	-.000489	-.000489	0	%100
6	GSI-2A	X	-.000574	-.000574	0	%100
7	GSI-2B	X	-.000523	-.000523	0	%100
8	GSI-3A	X	-.001	-.001	0	%100
9	GSI-3B	X	-.000978	-.000978	0	%100
10	INT1	X	-.000648	-.000648	0	%100
11	INT2	X	-.001	-.001	0	%100
12	INT3	X	-.001	-.001	0	%100
13	INT4	X	-.000578	-.000578	0	%100
14	INT5	X	-.000578	-.000578	0	%100
15	INT6	X	-.000648	-.000648	0	%100
16	MP-1	X	-.001	-.001	0	%100
17	MP-2	X	-.001	-.001	0	%100
18	MP-3	X	-.001	-.001	0	%100
19	MP-4	X	-.001	-.001	0	%100
20	MP-5	X	-.001	-.001	0	%100
21	MP-6	X	-.001	-.001	0	%100
22	MP-7	X	-.001	-.001	0	%100
23	MP-8	X	-.001	-.001	0	%100
24	MP-9	X	-.001	-.001	0	%100
25	MP-10	X	-.001	-.001	0	%100
26	MP-11	X	-.001	-.001	0	%100
27	MP-12	X	-.001	-.001	0	%100
28	SA-1	X	-.002	-.002	0	%100
29	SA-2	X	-.002	-.002	0	%100
30	SA-3	X	0	0	0	%100
31	SR-1	X	-.000693	-.000693	0	%100
32	SR-2	X	-.001	-.001	0	%100
33	SR-3	X	-.000597	-.000597	0	%100
34	SRC-1	X	-.00044	-.00044	0	%100
35	SRC-2	X	-.000474	-.000474	0	%100
36	SRC-3	X	-.00088	-.00088	0	%100
37	FFTH-1	Z	.001	.001	0	%100
38	FFTH-2	Z	.003	.003	0	%100
39	FFTH-3	Z	.001	.001	0	%100
40	GSI-1A	Z	.000962	.000962	0	%100
41	GSI-1B	Z	.00089	.00089	0	%100
42	GSI-2A	Z	.000895	.000895	0	%100
43	GSI-2B	Z	.000815	.000815	0	%100
44	GSI-3A	Z	.002	.002	0	%100
45	GSI-3B	Z	.002	.002	0	%100
46	INT1	Z	.000934	.000934	0	%100
47	INT2	Z	.002	.002	0	%100
48	INT3	Z	.002	.002	0	%100
49	INT4	Z	.001	.001	0	%100
50	INT5	Z	.001	.001	0	%100
51	INT6	Z	.000934	.000934	0	%100
52	MP-1	Z	.002	.002	0	%100



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 Designer : GJS
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 Model Name : CCI BU No. 842869

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Member Distributed Loads (BLC 32 : 300 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F. ...)	Start Location(ft. %)	End Location(ft. %)	
53	MP-2	Z	.002	.002	0	%100
54	MP-3	Z	.002	.002	0	%100
55	MP-4	Z	.002	.002	0	%100
56	MP-5	Z	.002	.002	0	%100
57	MP-6	Z	.002	.002	0	%100
58	MP-7	Z	.002	.002	0	%100
59	MP-8	Z	.002	.002	0	%100
60	MP-9	Z	.002	.002	0	%100
61	MP-10	Z	.002	.002	0	%100
62	MP-11	Z	.002	.002	0	%100
63	MP-12	Z	.002	.002	0	%100
64	SA-1	Z	.003	.003	0	%100
65	SA-2	Z	.004	.004	0	%100
66	SA-3	Z	0	0	0	%100
67	SR-1	Z	.001	.001	0	%100
68	SR-2	Z	.002	.002	0	%100
69	SR-3	Z	.001	.001	0	%100
70	SRC-1	Z	.000805	.000805	0	%100
71	SRC-2	Z	.000739	.000739	0	%100
72	SRC-3	Z	.002	.002	0	%100

Member Distributed Loads (BLC 33 : 315 Wind - Ice)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F. ...)	Start Location(ft. %)	End Location(ft. %)	
1	FFTH-1	X	-.002	-.002	0	%100
2	FFTH-2	X	-.002	-.002	0	%100
3	FFTH-3	X	-.00047	-.00047	0	%100
4	GSI-1A	X	-.000369	-.000369	0	%100
5	GSI-1B	X	-.000358	-.000358	0	%100
6	GSI-2A	X	-.001	-.001	0	%100
7	GSI-2B	X	-.001	-.001	0	%100
8	GSI-3A	X	-.001	-.001	0	%100
9	GSI-3B	X	-.001	-.001	0	%100
10	INT1	X	-.001	-.001	0	%100
11	INT2	X	-.002	-.002	0	%100
12	INT3	X	-.002	-.002	0	%100
13	INT4	X	-.000423	-.000423	0	%100
14	INT5	X	-.000423	-.000423	0	%100
15	INT6	X	-.001	-.001	0	%100
16	MP-1	X	-.002	-.002	0	%100
17	MP-2	X	-.002	-.002	0	%100
18	MP-3	X	-.002	-.002	0	%100
19	MP-4	X	-.002	-.002	0	%100
20	MP-5	X	-.002	-.002	0	%100
21	MP-6	X	-.002	-.002	0	%100
22	MP-7	X	-.002	-.002	0	%100
23	MP-8	X	-.002	-.002	0	%100
24	MP-9	X	-.002	-.002	0	%100
25	MP-10	X	-.002	-.002	0	%100
26	MP-11	X	-.002	-.002	0	%100
27	MP-12	X	-.002	-.002	0	%100
28	SA-1	X	-.003	-.003	0	%100



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Member Distributed Loads (BLC 33 : 315 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F. ...)	Start Location(ft. %)	End Location(ft. %)	
29	SA-2	X	-.002	-.002	0	%100
30	SA-3	X	-.000875	-.000875	0	%100
31	SR-1	X	-.001	-.001	0	%100
32	SR-2	X	-.002	-.002	0	%100
33	SR-3	X	-.000437	-.000437	0	%100
34	SRC-1	X	-.000322	-.000322	0	%100
35	SRC-2	X	-.000948	-.000948	0	%100
36	SRC-3	X	-.001	-.001	0	%100
37	FFTH-1	Z	.001	.001	0	%100
38	FFTH-2	Z	.002	.002	0	%100
39	FFTH-3	Z	.00057	.00057	0	%100
40	GSI-1A	Z	.000407	.000407	0	%100
41	GSI-1B	Z	.000376	.000376	0	%100
42	GSI-2A	Z	.001	.001	0	%100
43	GSI-2B	Z	.000941	.000941	0	%100
44	GSI-3A	Z	.002	.002	0	%100
45	GSI-3B	Z	.001	.001	0	%100
46	INT1	Z	.001	.001	0	%100
47	INT2	Z	.002	.002	0	%100
48	INT3	Z	.002	.002	0	%100
49	INT4	Z	.000463	.000463	0	%100
50	INT5	Z	.000463	.000463	0	%100
51	INT6	Z	.001	.001	0	%100
52	MP-1	Z	.002	.002	0	%100
53	MP-2	Z	.002	.002	0	%100
54	MP-3	Z	.002	.002	0	%100
55	MP-4	Z	.002	.002	0	%100
56	MP-5	Z	.002	.002	0	%100
57	MP-6	Z	.002	.002	0	%100
58	MP-7	Z	.002	.002	0	%100
59	MP-8	Z	.002	.002	0	%100
60	MP-9	Z	.002	.002	0	%100
61	MP-10	Z	.002	.002	0	%100
62	MP-11	Z	.002	.002	0	%100
63	MP-12	Z	.002	.002	0	%100
64	SA-1	Z	.003	.003	0	%100
65	SA-2	Z	.002	.002	0	%100
66	SA-3	Z	.000794	.000794	0	%100
67	SR-1	Z	.001	.001	0	%100
68	SR-2	Z	.002	.002	0	%100
69	SR-3	Z	.000507	.000507	0	%100
70	SRC-1	Z	.00034	.00034	0	%100
71	SRC-2	Z	.000853	.000853	0	%100
72	SRC-3	Z	.001	.001	0	%100

Member Distributed Loads (BLC 34 : 330 Wind - Ice)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft.F. ...)	Start Location(ft. %)	End Location(ft. %)	
1	FFTH-1	X	-.002	-.002	0	%100
2	FFTH-2	X	-.002	-.002	0	%100
3	FFTH-3	X	0	0	0	%100
4	GSI-1A	X	0	0	0	%100



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Member Distributed Loads (BLC 34 : 330 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft. F...)	Start Location(ft. %)	End Location(ft. %)	
5	GSI-1B	X	0	0	%100	
6	GSI-2A	X	-0.02	-0.02	0	%100
7	GSI-2B	X	-0.02	-0.02	0	%100
8	GSI-3A	X	-0.02	-0.02	0	%100
9	GSI-3B	X	-0.01	-0.01	0	%100
10	INT1	X	-0.02	-0.02	0	%100
11	INT2	X	-0.02	-0.02	0	%100
12	INT3	X	-0.02	-0.02	0	%100
13	INT4	X	0	0	0	%100
14	INT5	X	0	0	0	%100
15	INT6	X	-0.02	-0.02	0	%100
16	MP-1	X	-0.02	-0.02	0	%100
17	MP-2	X	-0.02	-0.02	0	%100
18	MP-3	X	-0.02	-0.02	0	%100
19	MP-4	X	-0.02	-0.02	0	%100
20	MP-5	X	-0.02	-0.02	0	%100
21	MP-6	X	-0.02	-0.02	0	%100
22	MP-7	X	-0.02	-0.02	0	%100
23	MP-8	X	-0.02	-0.02	0	%100
24	MP-9	X	-0.02	-0.02	0	%100
25	MP-10	X	-0.02	-0.02	0	%100
26	MP-11	X	-0.02	-0.02	0	%100
27	MP-12	X	-0.02	-0.02	0	%100
28	SA-1	X	-0.04	-0.04	0	%100
29	SA-2	X	-0.02	-0.02	0	%100
30	SA-3	X	-0.02	-0.02	0	%100
31	SR-1	X	-0.02	-0.02	0	%100
32	SR-2	X	-0.02	-0.02	0	%100
33	SR-3	X	0	0	0	%100
34	SRC-1	X	0	0	0	%100
35	SRC-2	X	-0.01	-0.01	0	%100
36	SRC-3	X	-0.01	-0.01	0	%100
37	FFTH-1	Z	.001	.001	0	%100
38	FFTH-2	Z	.001	.001	0	%100
39	FFTH-3	Z	0	0	0	%100
40	GSI-1A	Z	0	0	0	%100
41	GSI-1B	Z	0	0	0	%100
42	GSI-2A	Z	.000895	.000895	0	%100
43	GSI-2B	Z	.000815	.000815	0	%100
44	GSI-3A	Z	.000962	.000962	0	%100
45	GSI-3B	Z	.00089	.00089	0	%100
46	INT1	Z	.000934	.000934	0	%100
47	INT2	Z	.001	.001	0	%100
48	INT3	Z	.001	.001	0	%100
49	INT4	Z	0	0	0	%100
50	INT5	Z	0	0	0	%100
51	INT6	Z	.000934	.000934	0	%100
52	MP-1	Z	.001	.001	0	%100
53	MP-2	Z	.001	.001	0	%100
54	MP-3	Z	.001	.001	0	%100
55	MP-4	Z	.001	.001	0	%100
56	MP-5	Z	.001	.001	0	%100



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Member Distributed Loads (BLC 34 : 330 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft. F...)	Start Location(ft. %)	End Location(ft. %)	
57	MP-6	Z	.001	.001	0	%100
58	MP-7	Z	.001	.001	0	%100
59	MP-8	Z	.001	.001	0	%100
60	MP-9	Z	.001	.001	0	%100
61	MP-10	Z	.001	.001	0	%100
62	MP-11	Z	.001	.001	0	%100
63	MP-12	Z	.001	.001	0	%100
64	SA-1	Z	.002	.002	0	%100
65	SA-2	Z	.001	.001	0	%100
66	SA-3	Z	.001	.001	0	%100
67	SR-1	Z	.001	.001	0	%100
68	SR-2	Z	.001	.001	0	%100
69	SR-3	Z	0	0	0	%100
70	SRC-1	Z	0	0	0	%100
71	SRC-2	Z	.000739	.000739	0	%100
72	SRC-3	Z	.000805	.000805	0	%100

Member Distributed Loads (BLC 39 : BLC 1 Transient Area Loads)

Member Label	Direction	Start Magnitude(lb/ft. ...)	End Magnitude(lb/ft. F...)	Start Location(ft. %)	End Location(ft. %)	
1	FFTH-2	Y	-0.15	-0.384	0	.87
2	FFTH-2	Y	-0.384	-1.127	.87	1.74
3	FFTH-2	Y	-1.127	-1.556	1.74	2.61
4	FFTH-2	Y	-1.556	-.886	2.61	3.48
5	FFTH-2	Y	-.886	-.015	3.48	4.35
6	FFTH-3	Y	-.015	-.897	10.15	11.02
7	FFTH-3	Y	-.897	-1.557	11.02	11.89
8	FFTH-3	Y	-1.557	-1.13	11.89	12.76
9	FFTH-3	Y	-1.13	-.397	12.76	13.63
10	FFTH-3	Y	-.397	-.015	13.63	14.5
11	GSI-2A	Y	-.356	-4.574	0	.893
12	GSI-2A	Y	-4.574	-5.513	.893	1.785
13	GSI-2A	Y	-5.513	-5.527	1.785	2.678
14	GSI-2A	Y	-5.527	-4.591	2.678	3.57
15	GSI-2A	Y	-4.591	-.356	3.57	4.463
16	GSI-2B	Y	-1.579	-1.436	0	.52
17	GSI-2B	Y	-1.436	-1.448	.52	1.039
18	GSI-2B	Y	-1.448	-1.479	1.039	1.559
19	GSI-2B	Y	-1.479	-1.479	1.559	2.078
20	INT3	Y	-3.57	-6.217	0	.477
21	INT3	Y	-6.217	-8.988	.477	.954
22	INT3	Y	-8.988	-8.456	.954	1.431
23	INT3	Y	-8.456	-4.897	1.431	1.907
24	INT3	Y	-4.897	-1.738	1.907	2.384
25	INT4	Y	-3.808	-6.279	0	.477
26	INT4	Y	-6.279	-9.166	.477	.954
27	INT4	Y	-9.166	-8.416	.954	1.431
28	INT4	Y	-8.416	-4.654	1.431	1.907
29	INT4	Y	-4.654	-1.933	1.907	2.384
30	SA-2	Y	-.373	-2.266	2.647	3.176
31	SA-2	Y	-2.266	-8.429	3.176	3.706
32	SA-2	Y	-8.429	-15.107	3.706	4.235



Company : Tower Engineering Professionals
 Designer : GJS
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Member Distributed Loads (BLC 39 : BLC 1 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude(lb/ft...)	End Magnitude(lb/ft.F...)	Start Location(ft.%)	End Location(ft.%)
33	SA-2	-15.107	-13.786	4.235	4.765
34	SA-2	-13.786	-6.327	4.765	5.294
35	FFTH-1	-0.15	-.897	10.15	11.02
36	FFTH-1	-.897	-1.558	11.02	11.89
37	FFTH-1	-1.558	-1.118	11.89	12.76
38	FFTH-1	-1.118	-.384	12.76	13.63
39	FFTH-1	-.384	-0.15	13.63	14.5
40	FFTH-3	-0.15	-.384	0	.87
41	FFTH-3	-.384	-1.127	.87	1.74
42	FFTH-3	-1.127	-1.556	1.74	2.61
43	FFTH-3	-1.556	-.886	2.61	3.48
44	FFTH-3	-.886	-0.15	3.48	4.35
45	GSI-3A	-.356	-4.574	0	.893
46	GSI-3A	-4.574	-5.513	.893	1.785
47	GSI-3A	-5.513	-5.527	1.785	2.678
48	GSI-3A	-5.527	-4.591	2.678	3.57
49	GSI-3A	-4.591	-.356	3.57	4.463
50	GSI-3B	-1.842	-1.565	0	.52
51	GSI-3B	-1.565	-1.422	.52	1.039
52	GSI-3B	-1.422	-1.548	1.039	1.559
53	GSI-3B	-1.548	-1.806	1.559	2.078
54	INT5	-3.57	-6.217	0	.477
55	INT5	-6.217	-8.988	.477	.954
56	INT5	-8.988	-8.456	.954	1.431
57	INT5	-8.456	-4.897	1.431	1.907
58	INT5	-4.897	-1.738	1.907	2.384
59	INT6	-3.528	-6.187	0	.477
60	INT6	-6.187	-9.172	.477	.954
61	INT6	-9.172	-8.426	.954	1.431
62	INT6	-8.426	-4.664	1.431	1.907
63	INT6	-4.664	-1.942	1.907	2.384
64	SA-3	-.373	-2.266	2.647	3.176
65	SA-3	-2.266	-8.429	3.176	3.706
66	SA-3	-8.429	-15.107	3.706	4.235
67	SA-3	-15.107	-13.786	4.235	4.765
68	SA-3	-13.786	-6.327	4.765	5.294
69	FFTH-1	-0.15	-.384	0	.87
70	FFTH-1	-.384	-1.127	.87	1.74
71	FFTH-1	-1.127	-1.556	1.74	2.61
72	FFTH-1	-1.556	-.886	2.61	3.48
73	FFTH-1	-.886	-0.15	3.48	4.35
74	FFTH-2	-0.15	-.897	10.15	11.02
75	FFTH-2	-.897	-1.557	11.02	11.89
76	FFTH-2	-1.557	-1.13	11.89	12.76
77	FFTH-2	-1.13	-.397	12.76	13.63
78	FFTH-2	-.397	-0.15	13.63	14.5
79	GSI-1A	-.356	-4.574	0	.893
80	GSI-1A	-4.574	-5.513	.893	1.785
81	GSI-1A	-5.513	-5.527	1.785	2.678
82	GSI-1A	-5.527	-4.591	2.678	3.57
83	GSI-1A	-4.591	-.356	3.57	4.463
84	GSI-1B	-1.856	-1.579	0	.52



Company : Tower Engineering Professionals
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 Model Name : CCI BU No. 842869

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Member Distributed Loads (BLC 39 : BLC 1 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude(lb/ft...)	End Magnitude(lb/ft.F...)	Start Location(ft.%)	End Location(ft.%)
85	GSI-1B	-1.579	-1.436	.52	1.039
86	GSI-1B	-1.436	-1.448	1.039	1.559
87	GSI-1B	-1.448	-1.479	1.559	2.078
88	INT1	-3.57	-6.217	0	.477
89	INT1	-6.217	-8.988	.477	.954
90	INT1	-8.988	-8.456	.954	1.431
91	INT1	-8.456	-4.897	1.431	1.907
92	INT1	-4.897	-1.738	1.907	2.384
93	INT2	-3.808	-6.279	0	.477
94	INT2	-6.279	-9.166	.477	.954
95	INT2	-9.166	-8.416	.954	1.431
96	INT2	-8.416	-4.654	1.431	1.907
97	INT2	-4.654	-1.933	1.907	2.384
98	SA-1	-.373	-2.266	2.647	3.176
99	SA-1	-2.266	-8.429	3.176	3.706
100	SA-1	-8.429	-15.107	3.706	4.235
101	SA-1	-15.107	-13.786	4.235	4.765
102	SA-1	-13.786	-6.327	4.765	5.294

Member Distributed Loads (BLC 40 : BLC 18 Transient Area Loads)

Member Label	Direction	Start Magnitude(lb/ft...)	End Magnitude(lb/ft.F...)	Start Location(ft.%)	End Location(ft.%)
1	FFTH-2	-0.06	-.16	0	.87
2	FFTH-2	-.16	-.47	.87	1.74
3	FFTH-2	-.47	-.648	1.74	2.61
4	FFTH-2	-.648	-.369	2.61	3.48
5	FFTH-2	-.369	-.006	3.48	4.35
6	FFTH-3	-0.06	-.374	10.15	11.02
7	FFTH-3	-.374	-.649	11.02	11.89
8	FFTH-3	-.649	-.471	11.89	12.76
9	FFTH-3	-.471	-.165	12.76	13.63
10	FFTH-3	-.165	-.006	13.63	14.5
11	GSI-2A	-.148	-1.906	0	.893
12	GSI-2A	-1.906	-2.297	.893	1.785
13	GSI-2A	-2.297	-2.303	1.785	2.678
14	GSI-2A	-2.303	-1.913	2.678	3.57
15	GSI-2A	-1.913	-.148	3.57	4.463
16	GSI-2B	-.773	-.658	0	.52
17	GSI-2B	-.658	-.598	.52	1.039
18	GSI-2B	-.598	-.603	1.039	1.559
19	GSI-2B	-.603	-.616	1.559	2.078
20	INT3	-1.488	-2.591	0	.477
21	INT3	-2.591	-3.745	.477	.954
22	INT3	-3.745	-3.523	.954	1.431
23	INT3	-3.523	-2.04	1.431	1.907
24	INT3	-2.04	-.724	1.907	2.384
25	INT4	-1.587	-2.616	0	.477
26	INT4	-2.616	-3.819	.477	.954
27	INT4	-3.819	-3.507	.954	1.431
28	INT4	-3.507	-1.939	1.431	1.907
29	INT4	-1.939	-.805	1.907	2.384
30	SA-2	-1.155	-.944	2.647	3.176



Company : Tower Engineering Professionals
 Designer : GJS
 Job Number : TEP No. 217612.798269
 Model Name : CCI BU No. 842869

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Member Distributed Loads (BLC 40 : BLC 18 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude[lb/ft. ...]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
31	SA-2	Y	-944	-3.512	3.176
32	SA-2	Y	-3.512	-6.295	3.706
33	SA-2	Y	-6.295	-5.744	4.235
34	SA-2	Y	-5.744	-2.636	4.765
35	FFTH-1	Y	-0.06	-3.74	10.15
36	FFTH-1	Y	-3.74	-6.49	11.02
37	FFTH-1	Y	-6.49	-4.66	11.89
38	FFTH-1	Y	-4.66	-1.16	12.76
39	FFTH-1	Y	-1.16	-0.06	13.63
40	FFTH-3	Y	-0.06	-1.16	0
41	FFTH-3	Y	-1.16	-4.7	0.87
42	FFTH-3	Y	-4.7	-6.48	1.74
43	FFTH-3	Y	-6.48	-3.69	2.61
44	FFTH-3	Y	-3.69	-0.06	3.48
45	GSI-3A	Y	-1.148	-1.906	0
46	GSI-3A	Y	-1.906	-2.297	0.893
47	GSI-3A	Y	-2.297	-2.303	1.785
48	GSI-3A	Y	-2.303	-1.913	2.678
49	GSI-3A	Y	-1.913	-1.148	3.57
50	GSI-3B	Y	-768	-652	0
51	GSI-3B	Y	-652	-593	52
52	GSI-3B	Y	-593	-845	1.039
53	GSI-3B	Y	-845	-753	1.559
54	INT5	Y	-1.488	-2.591	0
55	INT5	Y	-2.591	-3.745	0.477
56	INT5	Y	-3.745	-3.523	0.954
57	INT5	Y	-3.523	-2.04	1.431
58	INT5	Y	-2.04	-7.24	1.907
59	INT6	Y	-1.47	-2.578	0
60	INT6	Y	-2.578	-3.822	0.477
61	INT6	Y	-3.822	-3.511	0.954
62	INT6	Y	-3.511	-1.943	1.431
63	INT6	Y	-1.943	-8.09	1.907
64	SA-3	Y	-1.155	-9.44	2.647
65	SA-3	Y	-9.44	-3.512	3.176
66	SA-3	Y	-3.512	-6.295	3.706
67	SA-3	Y	-6.295	-5.744	4.235
68	SA-3	Y	-5.744	-2.636	4.765
69	FFTH-1	Y	-0.06	-1.16	0
70	FFTH-1	Y	-1.16	-4.7	0.87
71	FFTH-1	Y	-4.7	-6.48	1.74
72	FFTH-1	Y	-6.48	-3.69	2.61
73	FFTH-1	Y	-3.69	-0.06	3.48
74	FFTH-2	Y	-0.06	-3.74	10.15
75	FFTH-2	Y	-3.74	-6.49	11.02
76	FFTH-2	Y	-6.49	-4.71	11.89
77	FFTH-2	Y	-4.71	-1.65	12.76
78	FFTH-2	Y	-1.65	-0.06	13.63
79	GSI-1A	Y	-1.148	-1.906	0
80	GSI-1A	Y	-1.906	-2.297	0.893
81	GSI-1A	Y	-2.297	-2.303	1.785
82	GSI-1A	Y	-2.303	-1.913	2.678



Company : Tower Engineering Professionals
 Designer : GJS
 Job Number : TEP No. 217612.798269
 Model Name : CCI BU No. 842869

Dec 22, 2022
 2:07 PM
 Checked By: RAL

Member Distributed Loads (BLC 40 : BLC 18 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude[lb/ft. ...]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
83	GSI-1A	Y	-1.913	-1.148	3.57
84	GSI-1B	Y	-7.73	-6.58	0
85	GSI-1B	Y	-6.58	-5.98	0.52
86	GSI-1B	Y	-5.98	-6.03	1.039
87	GSI-1B	Y	-6.03	-6.16	1.559
88	INT1	Y	-1.488	-2.591	0
89	INT1	Y	-2.591	-3.745	0.477
90	INT1	Y	-3.745	-3.523	0.954
91	INT1	Y	-3.523	-2.04	1.431
92	INT1	Y	-2.04	-7.24	1.907
93	INT2	Y	-1.587	-2.616	0
94	INT2	Y	-2.616	-3.819	0.477
95	INT2	Y	-3.819	-3.507	0.954
96	INT2	Y	-3.507	-1.939	1.431
97	INT2	Y	-1.939	-8.05	1.907
98	SA-1	Y	-1.155	-9.44	2.647
99	SA-1	Y	-9.44	-3.512	3.176
100	SA-1	Y	-3.512	-6.295	3.706
101	SA-1	Y	-6.295	-5.744	4.235
102	SA-1	Y	-5.744	-2.636	4.765

Member Area Loads (BLC 1 : Dead)

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]	
1	N172	N173	N176	N175	Y	Two Way	-0.12
2	N105A	N106A	N109A	N108A	Y	Two Way	-0.12
3	N117A	N118A	N121A	N120A	Y	Two Way	-0.12

Member Area Loads (BLC 18 : Ice Weight)

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]	
1	N172	N173	N176	N175	Y	Two Way	-0.05
2	N105A	N106A	N109A	N108A	Y	Two Way	-0.05
3	N117A	N118A	N121A	N120A	Y	Two Way	-0.05

Envelope Joint Reactions

Joint	X [k]	Y [k]	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC			
1	N124	max 1.723	2	2.641	34	589	6	158	14	1.046	6	-797	10
2		min -1.756	26	442	10	-589	14	-213	22	-1.047	14	-9.338	34
3	N114A	max .979	32	2.637	39	1.482	7	8.018	39	1.149	12	5.138	56
4		min -.963	8	.44	15	-1.509	31	.663	15	-1.148	4	.363	15
5	N126	max .954	18	2.713	45	1.514	21	-831	5	1.258	17	5.024	45
6		min -.938	10	.491	5	-1.486	13	-8.165	45	-1.258	9	.548	5
7	Totals:	max 3.402	2	7.453	42	3.364	6						
8		min -3.402	26	3.426	98	-3.364	30						



Company : Tower Engineering Professionals
 Designer : GJS
 Job Number : TEP No. 217612.798269
 Model Name : CCI BU No. 842869

Dec 22, 2022
 2:07 PM
 Checked By: RAL

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

Member	Shape	Code Check	Loc(ft)	LC	Shear Check	Lo	phi*P	phi*P	phi*	Eqn			
1	GS1-3A	PIPE 3.0	.392	2,231	42	.073	2.2	79.989	93.16	8.213	H1-		
2	GS1-1A	PIPE 3.0	.389	2,231	47	.075	2.1	79.989	93.16	8.213	H1-		
3	SA-1	HSS5X3X6	.383	0	45	.064	5.2	z	131	197	17.595	25.323	H1-
4	GS1-2A	PIPE 3.0	.378	2,231	34	.073	2.1	79.989	93.16	8.213	8.213	H1-	
5	SA-2	HSS5X3X6	.371	0	34	.054	5.2	z	131	197	17.595	25.323	H1-
6	SA-3	HSS5X3X6	.371	0	56	.067	0	y	131	197	17.595	25.323	H1-
7	MP-3	PIPE 2.5	.251	6,667	30	.075	6.6	32.594	50.715	3.596	3.596	H1-	
8	MP-11	PIPE 2.5	.250	6,667	25	.071	6.6	32.594	50.715	3.596	3.596	H1-	
9	MP-2	PIPE 2.5	.245	6,667	22	.074	6.6	32.594	50.715	3.596	3.596	H1-	
10	MP-7	PIPE 2.5	.245	6,667	19	.078	6.6	32.594	50.715	3.596	3.596	H1-	
11	MP-10	PIPE 2.5	.244	6,667	33	.065	6.6	32.594	50.715	3.596	3.596	H1-	
12	MP-6	PIPE 2.5	.239	6,667	27	.064	6.6	32.594	50.715	3.596	3.596	H1-	
13	SR-2	PIPE 2.5	.207	9,667	17	.083	13	2.453	80.858	4.316	4.316	H1-	
14	SR-1	PIPE 2.5	.188	9,667	11	.094	13	2.453	80.858	4.316	4.316	H1-	
15	SR-3	PIPE 2.5	.186	9,667	6	.083	13	2.453	80.858	4.316	4.316	H1-	
16	FFTH-3	PIPE 3.0	.178	3,776	23	.069	10	4.822	78.246	6.899	6.899	H1-	
17	FFTH-2	PIPE 3.0	.177	3,776	18	.067	10	4.822	78.246	6.899	6.899	H1-	
18	FFTH-1	PIPE 3.0	.173	3,625	26	.073	10	4.822	78.246	6.899	6.899	H1-	
19	MP-8	PIPE 2.5	.154	6,667	27	.077	6.6	32.594	50.715	3.596	3.596	H1-	
20	MP-4	PIPE 2.5	.150	6,667	22	.084	6.6	32.594	50.715	3.596	3.596	H1-	
21	MP-12	PIPE 2.5	.149	6,667	32	.078	6.6	32.594	50.715	3.596	3.596	H1-	
22	MP-1	PIPE 2.5	.143	6,667	63	.084	6.6	32.594	50.715	3.596	3.596	H1-	
23	SRC-3	PIPE 2.5	.120	0	26	.109	0	88.882	72.45	5.138	5.138	H1-	
24	SRC-1	PIPE 2.5	.116	0	32	.118	0	88.882	72.45	5.138	5.138	H1-	
25	MP-5	PIPE 2.5	.112	6,667	19	.089	6.6	32.594	50.715	3.596	3.596	H1-	
26	SRC-2	PIPE 2.5	.111	0	21	.106	0	88.882	72.45	5.138	5.138	H1-	
27	MP-9	PIPE 2.5	.108	6,667	24	.081	6.6	32.594	50.715	3.596	3.596	H1-	
28	GS1-1B	PIPE 3.0	.094	1,039	19	.102	1.0	90.123	93.15	8.213	8.213	H1-	
29	GS1-3B	PIPE 3.0	.094	1,039	30	.093	1.0	90.123	93.15	8.213	8.213	H1-	
30	GS1-2B	PIPE 3.0	.094	1,039	25	.093	1.0	90.123	93.15	8.213	8.213	H1-	
31	INT3	L1.5x1.5x4	.054	1,167	18	.019	0	z	13.438	22.275	.36	.834	H2-1
32	INT1	L1.5x1.5x4	.052	1,167	29	.019	0	z	13.438	22.275	.36	.834	H2-1
33	INT5	L1.5x1.5x4	.052	1,167	23	.023	0	z	13.438	22.275	.36	.834	H2-1
34	INT6	L1.5x1.5x4	.049	1,167	25	.029	0	y	13.438	22.275	.36	.834	H2-1
35	INT2	L1.5x1.5x4	.045	1,167	30	.030	0	y	13.438	22.275	.36	.834	H2-1
36	INT4	L1.5x1.5x4	.045	1,167	19	.028	0	y	13.438	22.275	.36	.834	H2-1

Envelope None Cold Formed Steel Code Checks

Member	Shape	Code Check	Loc(ft)	LC	Shear	Loc(ft)	Dir	LC	Pn[k]	Tn[k]	Mnyfk	Mnzfk	Cb	Cmy	Cmz	Eqn
No Data to Print ...																

APPENDIX D
ADDITIONAL CALCULATIONS



**TOWER
ENGINEERING
PROFESSIONALS**

CCI BU No. 842869

TEP No. 217612.798269

Analysis By: GJS 12/22/2022

Checked By: RAL 12/22/2022

Moment Bolt Group - Support Arm

Code Revisions:	ANSI/TIA-222-H
Bolt Type:	Headed Bolts

Connection Inputs:

Bolt Size:	0.750	in
# Bolts:	4	
Plate Width:	10.00	in
Plate Height:	10.00	in
Bolt H Gap:	7.00	in
Bolt V Gap:	7.00	in
Plate T:	0.750	in
Slip Member Ø:	N/A	in
Bolt Grade:	A325N	

Capacities:

Bolt Capacity=	27.7%	PASS
Plate Capacity=	36.4%	PASS

Bolt Properties:

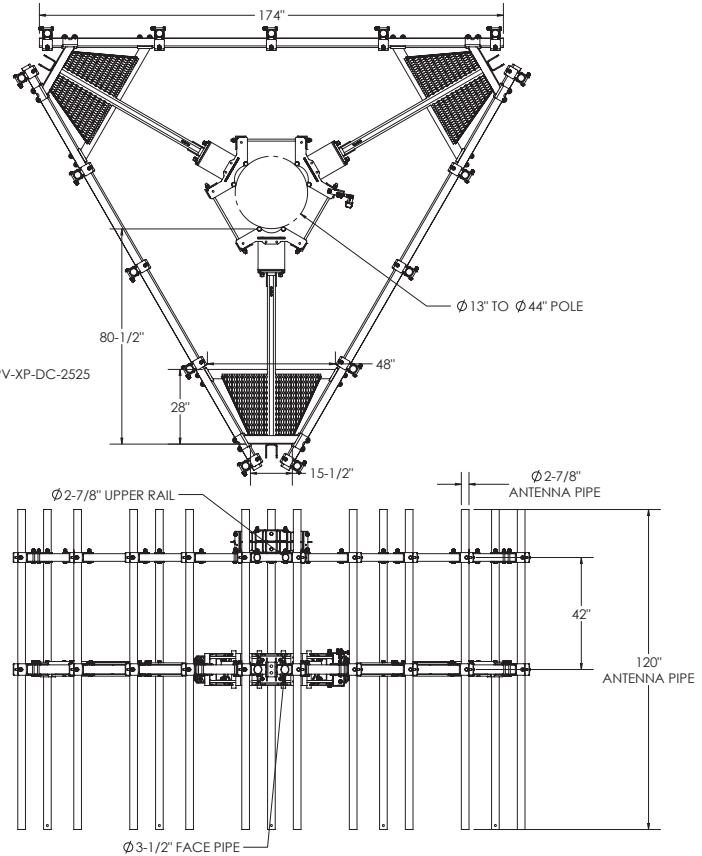
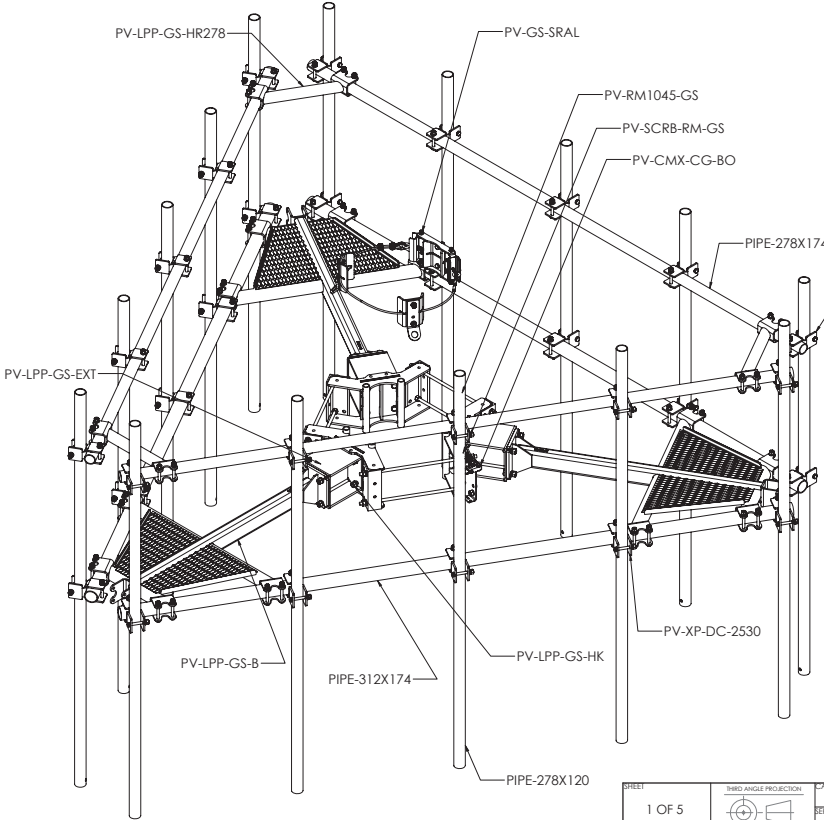
$F_{y_{bolt}}$:	92.0	ksi
$F_{u_{bolt}}$:	120.0	ksi
r:	4.9	in
J:	98.0	in ⁴ /in ²
A_{bolt} :	0.4	in ²
$A_{bolt, Net Tensile}$:	0.3	in ²
Pretension:	28.1	kips

Member Properties:

Member Shape:	Flat	
Plate F_y :	36.0	ksi
Plate F_u :	58.0	ksi
Member Height:	5.0	in
Member Width:	3.0	in

APPENDIX E
SUPPLEMENTAL DRAWINGS

PV-LPPGS-14M-HR25-HWLL - CEQ.53348
MONOPOLE GUARDIAN MOUNT



SHEET 1 OF 5	THIRD ANGLE PROJECTION	CATEGORY	02_Monopole	4			
		SERIES	01_Triangular	3			
DATE	SCALE	TYPE	PV-LPPGS_GUARDIAN	2			
8/10/2021	1:36	BY	DJN	1			
DIMENSIONS ARE IN INCHES		CHECKED	SJS	0	INITIAL RELEASE	11/17/20	
TOLERANCES U.N.O.		STATUS	APPROVED	REV	DESCRIPTION	DATE	
HOLES: +1/16", -1/32"							
ANGULAR: PROFILE ±1/4", BEND ±2"							
ALL OTHERS: ±1/16"							
MONOPOLE GUARDIAN MOUNT - ATT						DOCUMENT NUMBER	REV
LPPGS-ENG-14-R0							0

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PERFECTVISION. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PERFECTVISION IS PROHIBITED.

INCLUDED PARTS, WEIGHTS, EPA, & MOUNT CLASSIFICATION

Part Number	Description	Weight (lbs)	(EPA)A (ft2)*	(EPA)A 1/2" Radial Ice (ft2)	Included Parts										
					PV-RM1045-GS	PV-LPP-GS-B	PV-LPP-GS-HK	PV-LPP-GS-EXT	PV-LPP-GS-HR278	PV-XP-DC-2525	PV-XP-DC-2530	PIPE-278X120	PIPE-278X174	PIPE-312X174	PV-GS-SRAL
PV-LPPGS-14M-HR25-HWLL	14'6" Face, 13"-44" OD Pole, 2-7/8" OD Upper Rail, (15) 2-7/8" x 120" Pipe	3020	23.6	30.9	1	1	1	1	1	15	15	3	3	1	1

Size	(EPA)A (ft2)	(EPA)A 1/2" Radial Ice (ft2)
2-7/8" x 120"	2.3	3.1

* (EPA)A INCLUDES ALL STRUCTURAL MEMBERS INCLUDING CROSSOVER CONNECTIONS. IF DESIRED, ADD ANTENNA PIPE PER TABLE 2

MOUNT CLASSIFICATION INFORMATION:

- STANDARDS: TIA-222-G, TIA-222-H, TIA-5053
- MAX STRUCTURE HEIGHT: 400ft
- STRUCTURE CLASS: I OR II
- TOPOGRAPHIC CATEGORY: 1
- DESIGN WIND PRESSURE: 135psf
- DESIGN WIND PRESSURE (ICED): 15psf
- DESIGN ICE THICKNESS (RADIAL) 2.75"

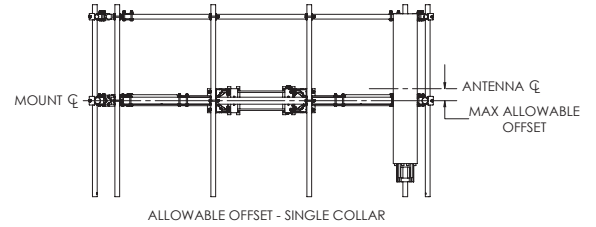
APPROVED MOUNT CLASSIFICATIONS:

Part Number	Maximum Antenna Centerline Offset			
	0in	6in	12in	24in
PV-LPPGS-14M-HR25-HWLL	M1450R(1050)-5[0]	M1450R(1050)-5[6]	M1300R(1000)-5[12]	M1000R(900)-5[24]

MOUNT EXCEEDS THE FOLLOWING REQUIREMENTS:

- HEAVY WLL

NOTE: ON POLES WITH THICKNESS 3/16" OR LESS, A KICKER AND SECONDARY COLLAR OR FURTHER POLE ANALYSIS SHALL BE REQUIRED.

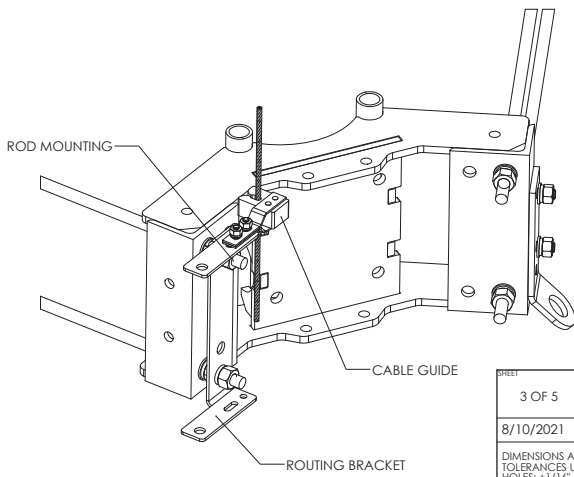
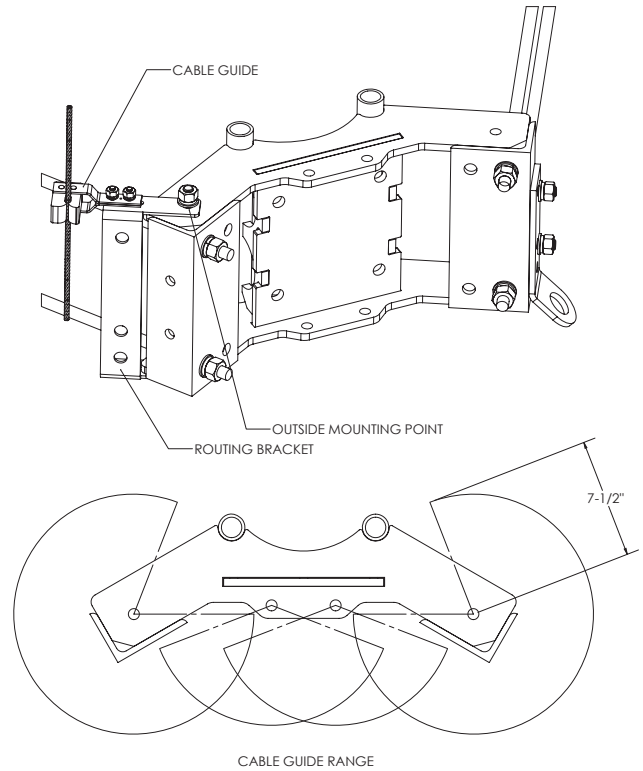
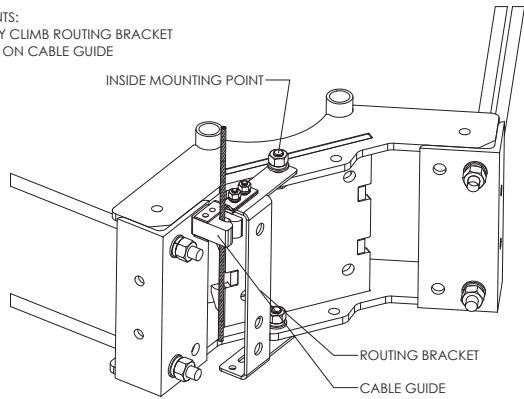


SHEET 2 OF 5	THIRD ANGLE PROJECTION	CATEGORY	02_Monopole	4	
		SERIES	01_Triangular	3	
8/10/2021	SCALE 1:36	TYPE	PV-LPPGS_GUARDIAN	2	
DIMENSIONS ARE IN INCHES TOLERANCES U.N.O. HOLES: +1/16", -1/32" ANGULAR: PROFILE ±1/4", BEND ±2" ALL OTHERS: ±1/16"		BY	DJN	1	MONOPOLE GUARDIAN MOUNT - ATT
		CHECKED	SJS	0	INITIAL RELEASE
		STATUS	APPROVED	REV	DESCRIPTION
				DATE	11/17/20
					DOCUMENT NUMBER LPPGS-ENG-14-R0
					REV 0

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SAFETY CLIMB ROUTING

INCLUDED COMPONENTS:
 PV-SCRB-RMGS - SAFETY CLIMB ROUTING BRACKET
 PV-CMX-CG-BO - BOLT ON CABLE GUIDE



SHEET	3 OF 5	THIRD ANGLE PROJECTION	CATEGORY	02_Monopole	4				
			SERIES	01_Triangular	3				
			TYPE	PV-LPPGS_GUARDIAN	2				
			BY	DJN	1				
			CHECKED	SJS	0	INITIAL RELEASE	11/17/20		
			STATUS	APPROVED	REV	DESCRIPTION	DATE		
DIMENSIONS ARE IN INCHES TOLERANCES U.N.O. HOLES: +1/16", -1/32" ANGULAR: PROFILE ±1/4", BEND ±2" ALL OTHERS: ±1/16"								MONOPOLE GUARDIAN MOUNT - ATT DOCUMENT NUMBER LPPGS-ENG-14-R0	REV 0



C:\PV\Shared\Carlson\WIP\Working Files\Engineering\Drawings

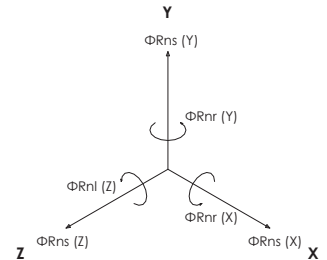
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PERFECTVISION. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PERFECTVISION IS PROHIBITED.

PV-XP-DC

DUALCROSS 90° CROSSOVER BRACKET

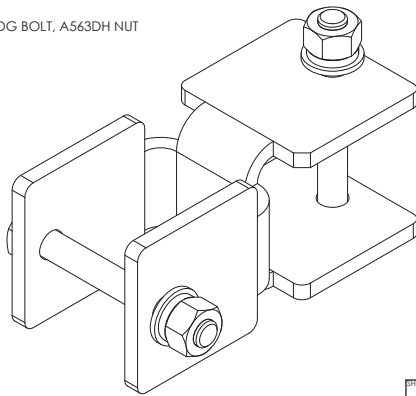
Table 7: Crossover Configurations and Capacities

Part Number	Weight	Pipe 1 Size (Vertical)	Pipe 2 Size (Horizontal)	Pipe 1 Bolt Size	Pipe 2 Bolt Size	Available Sliding Strength ($\Phi=0.7$)			Available Torsional Strength ($\Phi=0.7$)		Available Lateral Twist Strength ($\Phi=0.9$)
						ΦRns (X)	ΦRns (Y)	ΦRns (Z)	ΦRnr (X)	ΦRnr (Y)	ΦRnl (Z)
PV-XP-DC-2020	6.1	$\Phi 2.375$	$\Phi 2.375$	$\Phi 5/8 \times 4-1/2$	$\Phi 5/8 \times 4-1/2$	3.85	3.85	Fixed	6.0	6.0	14.0
PV-XP-DC-2025	7.0	$\Phi 2.375$	$\Phi 2.875$	$\Phi 5/8 \times 4-1/2$	$\Phi 5/8 \times 5$	3.85	3.85	Fixed	6.0	6.0	14.0
PV-XP-DC-2030	8.1	$\Phi 2.375$	$\Phi 3.5$	$\Phi 5/8 \times 4-1/2$	$\Phi 5/8 \times 5-1/2$	3.85	3.85	Fixed	6.8	6.0	14.0
PV-XP-DC-2525	8.0	$\Phi 2.875$	$\Phi 2.875$	$\Phi 5/8 \times 5$	$\Phi 5/8 \times 5$	3.85	3.85	Fixed	6.0	6.0	20.0
PV-XP-DC-2530	9.3	$\Phi 2.875$	$\Phi 3.5$	$\Phi 5/8 \times 5$	$\Phi 5/8 \times 5-1/2$	3.85	3.85	Fixed	6.8	6.0	20.0
PV-XP-DC-3030	10.7	$\Phi 3.5$	$\Phi 3.5$	$\Phi 5/8 \times 5-1/2$	$\Phi 5/8 \times 5-1/2$	3.85	3.85	Fixed	6.8	6.8	27.0
PV-XP-DC-3040	13.1	$\Phi 3.5$	$\Phi 4.5$	$\Phi 5/8 \times 5-1/2$	$\Phi 5/8 \times 6-1/2$	3.85	3.85	Fixed	6.8	6.8	27.0

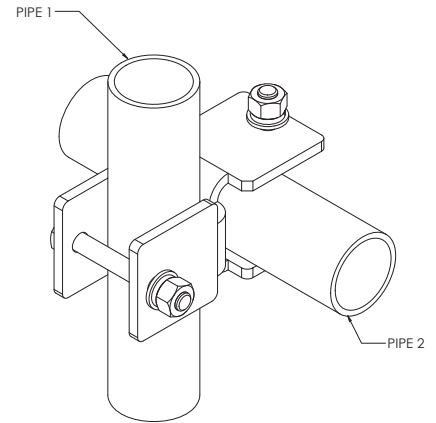


NOTES:

- CAPACITY VALUES EXPERIMENTALLY DETERMINED
- INSTALLATION REQUIREMENTS:
 - MINIMUM BOLT TORQUE: 100 FT-LBS
 - CLEAN, DRY ASSEMBLY
 - GALVANIZED BRACKET AND HARDWARE
 - COLORED WAX COATING ON NUTS
- MATERIALS
 - BRACKET: A36 HDG
 - HARDWARE: A325 HDG BOLT, A563DH NUT



PV-XP-DC
DUALCROSS 90° CROSSOVER



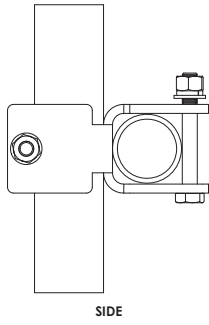
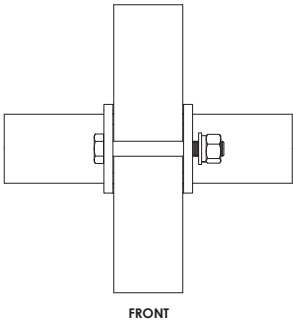
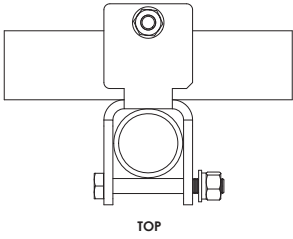
SHEET	4 OF 5	THIRD ANGLE PROJECTION	CATEGORY	02_Monopole	4				
			SERIES	01_Triangular	3				
			TYPE	PV-LPPGS_GUARDIAN	2				
DATE	8/10/2021	SCALE	1:2	BY	DJN	1			
				CHECKED	SJS	0	INITIAL RELEASE	11/17/20	
				STATUS	APPROVED	REV	DESCRIPTION	DATE	
DIMENSIONS ARE IN INCHES TOLERANCES U.N.O. HOLES: +1/16", -1/32" ANGULAR PROFILES: ±1/4", BEND ±2" ALL OTHERS: ±1/16"									MONOPOLE GUARDIAN MOUNT - ATT DOCUMENT NUMBER LPPGS-ENG-14-R0 REV 0



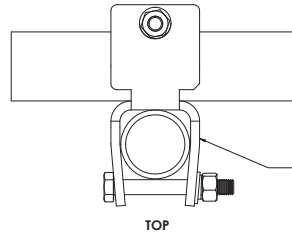
PV-XP-DC

DUALCROSS 90° CROSSOVER BRACKET

PRE-INSTALL ASSEMBLY:

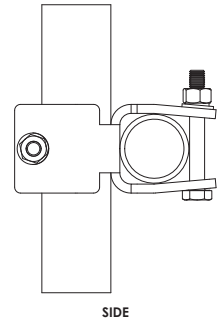
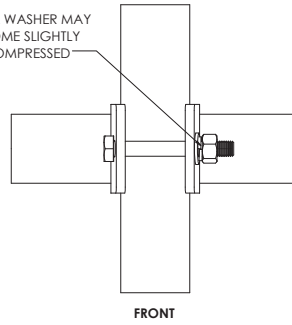


POST-INSTALL ASSEMBLY:



UNDER SPECIFIED BOLT TORQUE CONDITIONS, PLATES WILL FLEX AROUND PIPES

LOCK WASHER MAY BECOME SLIGHTLY UNCOMPRESSED



SHEET 5 OF 5	THIRD ANGLE PROJECTION 	CATEGORY	02_Monopole	4		PERFECT VISION [®]	
		SERIES	01_Triangular	3			
8/10/2021	SCALE 1:4	TYPE	PV-LPPGS_GUARDIAN	2			
DIMENSIONS ARE IN INCHES TOLERANCES U.N.O. HOLES: +1/16", -1/32" ANGULAR: PROFILE ±1/4", BEND ±2" ALL OTHERS: ±1/16"		BY	DJN	1		MONOPOLE GUARDIAN MOUNT - ATT	
		CHECKED	SJS	0	INITIAL RELEASE	11/17/20	
		STATUS	APPROVED	REV	DESCRIPTION	DATE	
						DOCUMENT NUMBER LPPGS-ENG-14-R0	REV 0

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RADIO FREQUENCY EMISSIONS ANALYSIS REPORT
EVALUATION OF HUMAN EXPOSURE POTENTIAL TO NON-IONIZING EMISSIONS



Site Name: MERIDEN WEST CENTRAL
AT&T Mobility FA# 10071118
Crown Castle Site# 842869
Site ID: CTL05378
Project Name: 5G NR 1SR CBAND
Address: 450-478 WEST MAIN STREET,
 MERIDEN, CT 06451
County: NEW HAVEN
Latitude: 41.5398919
Longitude: -72.8188989
Structure Type: MONOPOLE
Property Owner: HUNTER FAMILY LTD PRTSHP
Property Contact: VERONICA CHAPMAN

AT&T Existing Facility

Report Information

Report Writer: Monti Kumar **Report Generated Date:** 05-17-2023

Site Compliance Statement

Compliance Status	Compliant
Cumulative General Population % MPE (Ground Level)	1.2341%

May 17, 2023

Emissions Analysis for Site: **CTL05378– MERIDEN WEST CENTRAL**

MobileComm Professionals, Inc was directed to analyze the proposed AT&T facility located at **450-478 WEST MAIN STREET, MERIDEN, CT 06451**, for the purpose of determining whether the emissions from the Proposed AT&T Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of milliwatts per square centimeter (mW/cm^2) or microwatts per square centimeter ($\mu W/cm^2$). The number of mW/cm^2 or $\mu W/cm^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Public exposure to radio frequencies is regulated and enforced in units of milliwatts per square centimeter (mW/cm^2). The general population exposure limits for the 700 and 850 MHz Bands are approximately $0.467 mW/cm^2$ and $0.567 mW/cm^2$ respectively or $466.667 \mu W/cm^2$ and $566.667 \mu W/cm^2$ respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS), 2300 MHz (WCS), 3540 MHz (DoD Band) and 3840 MHz (C-Band) bands is $1 mW/cm^2$ or $1000 \mu W/cm^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.

1. Theoretical Calculations: Methods and Procedures

MobileComm Professionals, Inc has performed theoretical modeling of the site using a software tool, RoofMaster® Version 40.12.23.2022, which incorporates calculation methodologies detailed in FCC OET 65. RoofMaster® uses a cylindrical model for conservative power density predictions within the near field of the antenna where the antenna pattern has not truly formed yet. Within this area power density values tend to decrease based upon an inverse distance function. At the point where it is appropriate for modeling to change from near-field calculations to far-field calculations, the power decreases inversely with the square of the distance. The modeling is based on worst-case assumptions in terms of transmitter power and duty cycle. No losses were included in the power calculations unless they were specifically provided for the project.

In OET 65, a far field model is presented to calculate the spatial peak power density. The RoofMaster® implementation of this model incorporates antenna manufacturer's horizontal and vertical pattern data to determine the power density in all directions. This model yields the power density at a single point in space. In order to determine the spatial power density for comparison to the FCC limits, the average of several points calculated within the human profile (0-6') must be conducted. RoofMaster® calculates seven power density values between 0-6' above the specified study plane and performs a linear spatial average.

The following table details the antennas and operating parameters for the AT&T antenna system as well as any other antenna systems at the site. This is based on antenna information provided by the client and data compiled from other sources where necessary. The data below was input into Roofmaster® to perform the theoretical exposure calculations at the ground.

The theoretical calculations performed in Roofmaster® determine the cumulative exposure at all sample points at ground level (0-6' spatial average). The results from highest cumulative sample point at ground level surrounding the site are displayed in the table below. The contribution from directional antennas to the maximum cumulative totals varies greatly depending on location; therefore, the contribution from one antenna sector at the highest calculated exposure point may be greater or less than other sectors since sectorized directional antennas are pointed in different directions and there is not much overlapping exposure.

The contribution to the cumulative power density and % MPE for each antenna/frequency band is listed in the table. The cumulative power density and cumulative % MPE are displayed at the bottom of the table.



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2. Antenna Inventory & Power Data

Ant ID	Operator	Antenna Mfg	Antenna Model	Antenna Type	FREQ. (MHz)	TECH.	AZ. (°)	H B W (°)	Antenna Gain (dBd)	Antenna Aperture (ft)	#of Channels	Transmitter Power Per Channel (Watts)	Total ERP (Watts)	Total EIRP (Watts)	Height (ft)	Calculated Power Density ($\mu\text{W}/\text{cm}^2$)	Allowable MPE ($\mu\text{W}/\text{cm}^2$)	Calculated MPE%
1	AT&T	Quintel	QD6616-7	Panel	700	LTE(FN)	45	71	12.05	6	4	40.00	2286.23	3750.77	99.00	0.000512	466.67	0.000110
1	AT&T	Quintel	QD6616-7	Panel	700	LTE(B29)	45	71	12.05	6	2	40.00	1143.12	1875.38	99.00	0.000256	466.67	0.000055
1	AT&T	Quintel	QD6616-7	Panel	1900	LTE/5G	45	67	15.05	6	4	40.00	4561.63	7483.76	99.00	0.000306	1000.00	0.000031
1	AT&T	Quintel	QD6616-7	Panel	2100	LTE/5G	45	62	15.55	6	4	40.00	5118.23	8396.92	99.00	0.001799	1000.00	0.000180
2-1	AT&T	Ericsson	AIR 6419 B77G	Panel	3450	5G	45	11	23.5	2.55	64	54.22	12138.53	19914.34	100.77	0.000283	1000.00	0.000028
2-2	AT&T	Ericsson	AIR 6449 B77D	Panel	3840	5G	45	11	23.5	2.55	64	86.75	19421.64	31862.94	97.23	0.000452	1000.00	0.000045
3	AT&T	CCI	OPA65R-BU6D	Panel	700	LTE(B12)	45	73	12.15	6	4	40.00	2339.48	3838.13	99.00	0.000059	466.67	0.000013
3	AT&T	CCI	OPA65R-BU6D	Panel	850	5G	45	64	13.05	6	4	40.00	2878.19	4721.93	99.00	0.000037	566.67	0.000007
3	AT&T	CCI	OPA65R-BU6D	Panel	2300	LTE	45	55	16.05	6	4	25.00	3589.22	5888.44	99.00	0.000036	1000.00	0.000004
4	AT&T	Quintel	QD6616-7	Panel	700	LTE(FN)	175	71	12.05	6	4	40.00	2286.23	3750.77	99.00	0.107433	466.67	0.023021
4	AT&T	Quintel	QD6616-7	Panel	700	LTE(B29)	175	71	12.05	6	2	40.00	1143.12	1875.38	99.00	0.053716	466.67	0.011511
4	AT&T	Quintel	QD6616-7	Panel	1900	LTE/5G	175	67	15.05	6	4	40.00	4561.63	7483.76	99.00	0.123532	1000.00	0.012353
4	AT&T	Quintel	QD6616-7	Panel	2100	LTE/5G	175	62	15.55	6	4	40.00	5118.23	8396.92	99.00	0.151218	1000.00	0.015122
5-1	AT&T	Ericsson	AIR 6419 B77G	Panel	3450	5G	175	11	23.5	2.55	64	54.22	12138.53	19914.34	100.77	0.652286	1000.00	0.065229
5-2	AT&T	Ericsson	AIR 6449 B77D	Panel	3840	5G	175	11	23.5	2.55	64	86.75	19421.64	31862.94	97.23	1.043652	1000.00	0.104365
6	AT&T	CCI	OPA65R-BU6D	Panel	700	LTE(B12)	175	73	12.15	6	4	40.00	2339.48	3838.13	99.00	0.053178	466.67	0.011395
6	AT&T	CCI	OPA65R-BU6D	Panel	850	5G	175	64	13.05	6	4	40.00	2878.19	4721.93	99.00	0.064415	566.67	0.011367
6	AT&T	CCI	OPA65R-BU6D	Panel	2300	LTE	175	55	16.05	6	4	25.00	3589.22	5888.44	99.00	0.053314	1000.00	0.005331
7	AT&T	Quintel	QD6616-7	Panel	700	LTE(FN)	295	71	12.05	6	4	40.00	2286.23	3750.77	99.00	0.000745	466.67	0.000160
7	AT&T	Quintel	QD6616-7	Panel	700	LTE(B29)	295	71	12.05	6	2	40.00	1143.12	1875.38	99.00	0.000373	466.67	0.000080
7	AT&T	Quintel	QD6616-7	Panel	1900	LTE/5G	295	67	15.05	6	4	40.00	4561.63	7483.76	99.00	0.000010	1000.00	0.000001
7	AT&T	Quintel	QD6616-7	Panel	2100	LTE/5G	295	62	15.55	6	4	40.00	5118.23	8396.92	99.00	0.000079	1000.00	0.000008
8-1	AT&T	Ericsson	AIR 6419 B77G	Panel	3450	5G	295	11	23.5	2.55	64	54.22	12138.53	19914.34	100.77	0.000496	1000.00	0.000050
8-2	AT&T	Ericsson	AIR 6449 B77D	Panel	3840	5G	295	11	23.5	2.55	64	86.75	19421.64	31862.94	97.23	0.000794	1000.00	0.000079
9	AT&T	CCI	OPA65R-BU6D	Panel	700	LTE(B12)	295	73	12.15	6	4	40.00	2339.48	3838.13	99.00	0.118886	466.67	0.025476
9	AT&T	CCI	OPA65R-BU6D	Panel	850	5G	295	64	13.05	6	4	40.00	2878.19	4721.93	99.00	0.123704	566.67	0.021830
9	AT&T	CCI	OPA65R-BU6D	Panel	2300	LTE	295	55	16.05	6	4	25.00	3589.22	5888.44	99.00	0.109205	1000.00	0.010920

Table 2.1: Antenna Inventory & Power Data

*NOTE: 75% Duty Cycle and adjusted power reduction factor of 0.32 was applied to the AIR6449 & AIR6449 antennas per guidance from AT&T. Specifications were not available for the Ericsson AIR 6449 antenna. Per AT&T, specifications for the AIR 6449 antenna were used to model the 6449 due to its similarity.



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Ant ID	Operator	Antenna Mfg	Antenna Model	Antenna Type	FREQ. (MHz)	TECH.	AZ. (°)	H B W (°)	Antenna Gain (dBd)	Antenna Aperture (ft)	#of Channels	Transmitter Power Per Channel (Watts)	Total ERP (Watts)	Total EIRP (Watts)	Height (ft)	Calculated Power Density (μW/cm ²)	Allowable MPE (μW/cm ²)	Calculated MPE%
10	T-Mobile	Ericsson	KRC118023-1	Panel	1900	GSM	60	65.6	15.6	4.68	4	30.00	4356.94	7147.95	90.00	0.000017	1000.00	0.000002
10	T-Mobile	Ericsson	KRC118023-1	Panel	1900	UMTS	60	65.6	15.6	4.68	2	30.00	2178.47	3573.97	90.00	0.000008	1000.00	0.000001
10	T-Mobile	Ericsson	KRC118023-1	Panel	2100	UMTS	60	57.4	15.7	4.68	2	30.00	2229.21	3657.22	90.00	0.001799	1000.00	0.000210
11	T-Mobile	Ericsson	KRD901146-1	Panel	1900	LTE	60	63.3	15.35	4.94	2	60.00	4113.21	6748.10	90.00	0.000110	1000.00	0.000011
11	T-Mobile	Ericsson	KRD901146-1	Panel	2100	LTE	60	63.3	15.35	4.94	2	60.00	4113.21	6748.10	90.00	0.000004	1000.00	0.000000
12	T-Mobile	Ericsson	AIR6449_LTE_B41	Panel	2500	LTE	60	12.5	22.65	2.75	1	40.67	7485.61	12280.81	90.00	0.000728	1000.00	0.000073
12	T-Mobile	Ericsson	AIR6449_NR_B41	Panel	2500	5G	60	12.5	22.65	2.75	1	67.78	12476.02	20468.02	90.00	0.001213	1000.00	0.000121
13	T-Mobile	RFS	APXVAARR24_43-U-NA20	Panel	600	LTE	60	69	13.25	8	2	30.00	1130.19	1854.18	90.00	0.000213	400.00	0.000053
13	T-Mobile	RFS	APXVAARR24_43-U-NA20	Panel	600	5G	60	69	13.25	8	1	80.00	1506.92	2472.24	90.00	0.000284	400.00	0.000071
13	T-Mobile	RFS	APXVAARR24_43-U-NA20	Panel	700	LTE	60	64	13.65	8	2	30.00	1239.23	2033.06	90.00	0.000674	466.67	0.000144
13	T-Mobile	RFS	APXVAARR24_43-U-NA20	Panel	1900	LTE	60	63	16.05	8	2	60.00	8614.13	14132.25	90.00	0.000547	1000.00	0.000055
14	T-Mobile	Ericsson	KRC118023-1	Panel	1900	GSM	190	65.6	15.6	4.68	4	30.00	4356.94	7147.95	90.00	0.016091	1000.00	0.001609
14	T-Mobile	Ericsson	KRC118023-1	Panel	1900	UMTS	190	65.6	15.6	4.68	2	30.00	2178.47	3573.97	90.00	0.000123	1000.00	0.000025
14	T-Mobile	Ericsson	KRC118023-1	Panel	2100	UMTS	190	57.4	15.7	4.68	2	30.00	2229.21	3657.22	90.00	0.008045	1000.00	0.000805
15	T-Mobile	Ericsson	KRD901146-1	Panel	1900	LTE	190	63.3	15.35	4.94	2	60.00	4113.21	6748.10	90.00	0.192057	1000.00	0.019206
15	T-Mobile	Ericsson	KRD901146-1	Panel	2100	LTE	190	63.3	15.35	4.94	2	60.00	4113.21	6748.10	90.00	0.032687	1000.00	0.003269
16	T-Mobile	Ericsson	AIR6449_LTE_B41	Panel	2500	LTE	190	12.5	22.65	2.75	1	40.67	7485.61	12280.81	90.00	0.596442	1000.00	0.059644
16	T-Mobile	Ericsson	AIR6449_NR_B41	Panel	2500	5G	190	12.5	22.65	2.75	1	67.78	12476.02	20468.02	90.00	0.994067	1000.00	0.099407
17	T-Mobile	RFS	APXVAARR24_43-U-NA20	Panel	600	LTE	190	69	13.25	8	2	30.00	1130.19	1854.18	90.00	0.030832	400.00	0.007708
17	T-Mobile	RFS	APXVAARR24_43-U-NA20	Panel	600	5G	190	69	13.25	8	1	80.00	1506.92	2472.24	90.00	0.041110	400.00	0.010277
17	T-Mobile	RFS	APXVAARR24_43-U-NA20	Panel	700	LTE	190	64	13.65	8	2	30.00	1239.23	2033.06	90.00	0.024700	466.67	0.005293
17	T-Mobile	RFS	APXVAARR24_43-U-NA20	Panel	1900	LTE	190	63	16.05	8	2	60.00	8614.13	14132.25	90.00	0.093002	1000.00	0.009300
18	T-Mobile	Ericsson	KRC118023-1	Panel	1900	GSM	290	65.6	15.6	4.68	4	30.00	4356.94	7147.95	90.00	0.002346	1000.00	0.000235
18	T-Mobile	Ericsson	KRC118023-1	Panel	1900	UMTS	290	65.6	15.6	4.68	2	30.00	2178.47	3573.97	90.00	0.000079	1000.00	0.000007
18	T-Mobile	Ericsson	KRC118023-1	Panel	2100	UMTS	290	57.4	15.7	4.68	2	30.00	2229.21	3657.22	90.00	0.001173	1000.00	0.000117
19	T-Mobile	Ericsson	KRD901146-1	Panel	1900	LTE	290	63.3	15.35	4.94	2	60.00	4113.21	6748.10	90.00	0.000144	1000.00	0.000014
19	T-Mobile	Ericsson	KRD901146-1	Panel	2100	LTE	290	63.3	15.35	4.94	2	60.00	4113.21	6748.10	90.00	0.000048	1000.00	0.000005
20	T-Mobile	Ericsson	AIR6449_LTE_B41	Panel	2500	LTE	290	12.5	22.65	2.75	1	40.67	7485.61	12280.81	90.00	0.000596	1000.00	0.000060
20	T-Mobile	Ericsson	AIR6449_NR_B41	Panel	2500	5G	290	12.5	22.65	2.75	1	67.78	12476.02	20468.02	90.00	0.000993	1000.00	0.000099
21	T-Mobile	RFS	APXVAARR24_43-U-NA20	Panel	600	LTE	290	69	13.25	8	2	30.00	1130.19	1854.18	90.00	0.000171	400.00	0.000043
21	T-Mobile	RFS	APXVAARR24_43-U-NA20	Panel	600	5G	290	69	13.25	8	1	80.00	1506.92	2472.24	90.00	0.000229	400.00	0.000057
21	T-Mobile	RFS	APXVAARR24_43-U-NA20	Panel	700	LTE	290	64	13.65	8	2	30.00	1239.23	2033.06	90.00	0.000067	466.67	0.000014
21	T-Mobile	RFS	APXVAARR24_43-U-NA20	Panel	1900	LTE	290	63	16.05	8	2	60.00	8614.13	14132.25	90.00	0.002496	1000.00	0.000250

Table 2.2: Antenna Inventory & Power Data

*NOTE: 75% Duty Cycle and adjusted power reduction factor of 0.32 was applied to the AIR6449 & AIR6449 antennas per guidance from AT&T. Specifications were not available for the Ericsson AIR 6449 antenna. Per AT&T, specifications for the AIR 6449 antenna were used to model the 6449 due to its similarity.



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Ant ID	Operator	Antenna Mfg	Antenna Model	Antenna Type	FREQ. (MHz)	TECH.	AZ. (°)	H B W (°)	Antenna Gain (dBi)	Antenna Aperture (ft)	#of Channels	Transmitter Power Per Channel (Watts)	Total ERP (Watts)	Total EIRP (Watts)	Height (ft)	Calculated Power Density (μW/cm ²)	Allowable MPE (μW/cm ²)	Calculated MPE%
22	Verizon	Samsung	MT6407-77A	Panel	3700	5G	50	17	22.85	2.93	2	35.00	24050.72	39457.36	65.00	0.000798	1000.00	0.000080
23	Verizon	JMA Wireless	MX06FRO660-03	Panel	700	LTE	50	60.5	12.25	5.9	4	40.00	2393.98	3927.53	65.00	0.000548	466.67	0.000118
23	Verizon	JMA Wireless	MX06FRO660-03	Panel	850	LTE	50	53	11.85	5.9	4	40.00	2183.33	3581.95	65.00	0.001907	566.67	0.000337
23	Verizon	JMA Wireless	MX06FRO660-03	Panel	1900	LTE	50	55	15.85	5.9	4	40.00	5484.28	8997.46	65.00	0.000183	1000.00	0.000018
23	Verizon	JMA Wireless	MX06FRO660-03	Panel	2100	LTE	50	55.5	16.05	5.9	4	40.00	5742.75	9421.50	65.00	0.000125	1000.00	0.000013
24	Verizon	Amphenol	BXA-70063-6CF	Panel	850	UMTS	50	63	14.5	5.9	1	40.00	1004.75	1648.39	65.00	0.000022	566.67	0.000004
25	Verizon	Samsung	MT6407-77A	Panel	3700	5G	180	17	22.85	2.93	2	35.00	24050.72	39457.36	65.00	0.936421	1000.00	0.093642
26	Verizon	JMA Wireless	MX06FRO660-03	Panel	700	LTE	180	60.5	12.25	5.9	4	40.00	2393.98	3927.53	65.00	0.447695	466.67	0.095935
26	Verizon	JMA Wireless	MX06FRO660-03	Panel	850	LTE	180	53	11.85	5.9	4	40.00	2183.33	3581.95	65.00	0.482784	566.67	0.085197
27	Verizon	JMA Wireless	MX06FRO660-03	Panel	1900	LTE	180	55	15.85	5.9	4	40.00	5484.28	8997.46	65.00	0.001289	1000.00	0.000129
27	Verizon	JMA Wireless	MX06FRO660-03	Panel	2100	LTE	180	55.5	16.05	5.9	4	40.00	5742.75	9421.50	65.00	0.001219	1000.00	0.000122
28	Verizon	Amphenol	BXA-70063-6CF	Panel	850	UMTS	180	63	14.5	5.9	1	40.00	1004.75	1648.39	65.00	0.000008	566.67	0.000001
29	Verizon	Samsung	MT6407-77A	Panel	3700	5G	280	17	22.85	2.93	2	35.00	24050.72	39457.36	65.00	0.001081	1000.00	0.000108
30	Verizon	JMA Wireless	MX06FRO660-03	Panel	700	LTE	280	60.5	12.25	5.9	4	40.00	2393.98	3927.53	65.00	0.419204	466.67	0.089830
30	Verizon	JMA Wireless	MX06FRO660-03	Panel	850	LTE	280	53	11.85	5.9	4	40.00	2183.33	3581.95	65.00	0.374993	566.67	0.066175
31	Verizon	JMA Wireless	MX06FRO660-03	Panel	1900	LTE	280	55	15.85	5.9	4	40.00	5484.28	8997.46	65.00	0.000477	1000.00	0.000048
31	Verizon	JMA Wireless	MX06FRO660-03	Panel	2100	LTE	280	55.5	16.05	5.9	4	40.00	5742.75	9421.50	65.00	0.001495	1000.00	0.000149
32	Verizon	Amphenol	BXA-70063-6CF	Panel	850	UMTS	280	63	14.5	5.9	1	40.00	1004.75	1648.39	65.00	0.000044	566.67	0.000008
33	Sprint	RFS	APXVSP18-C-A20	Panel	850	LTE	320	65	13.35	6	1	20.00	385.50	632.46	79.00	0.000781	566.67	0.000138
33	Sprint	RFS	APXVSP18-C-A20	Panel	1900	CDMA/LTE	320	65	15.85	6	4	20.00	2742.14	4498.73	79.00	0.001480	1000.00	0.000148
34	Sprint	RFS	APXVTM14-ALU-I20	Panel	2500	CDMA/LTE	320	65	16.5	4.59	2	20.00	539.64	885.33	79.00	0.000137	1000.00	0.000014
35	Sprint	RFS	APXVSP18-C-A20	Panel	850	CDMA/LTE	150	65	13.35	6	1	20.00	385.50	632.46	79.00	0.018093	566.67	0.003193
35	Sprint	RFS	APXVSP18-C-A20	Panel	1900	CDMA/LTE	150	65	15.85	6	4	20.00	2742.14	4498.73	79.00	0.067166	1000.00	0.006717
36	Sprint	RFS	APXVTM14-ALU-I20	Panel	2500	CDMA/LTE	150	65	16.5	4.59	2	20.00	539.64	885.33	79.00	0.015124	1000.00	0.001512
37	Sprint	RFS	APXVSP18-C-A20	Panel	850	CDMA/LTE	220	65	13.35	6	1	20.00	385.50	632.46	79.00	0.000123	566.67	0.000022
37	Sprint	RFS	APXVSP18-C-A20	Panel	1900	CDMA/LTE	220	65	15.85	6	4	20.00	2742.14	4498.73	79.00	0.000004	1000.00	0.000000
38	Sprint	RFS	APXVTM14-ALU-I20	Panel	2500	CDMA/LTE	220	65	16.5	4.59	2	20.00	539.64	885.33	79.00	0.003531	1000.00	0.000353

Table 2.3: Antenna Inventory & Power Data

*NOTE: 75% Duty Cycle and adjusted power reduction factor of 0.32 was applied to the AIR6449 & AIR6449 antennas per guidance from AT&T. Specifications were not available for the Ericsson AIR 6449 antenna. Per AT&T, specifications for the AIR 6449 antenna were used to model the 6449 due to its similarity.

Ant ID	Operator	Antenna Mfg	Antenna Model	Antenna Type	FREQ. (MHz)	TECH.	AZ. (°)	H B W (°)	Antenna Gain (dBd)	Antenna Aperture (ft)	#of Channels	Transmitter Power Per Channel (Watts)	Total ERP (Watts)	Total EIRP (Watts)	Height (ft)	Calculated Power Density ($\mu\text{W}/\text{cm}^2$)	Allowable MPE ($\mu\text{W}/\text{cm}^2$)	Calculated MPE%
39	Dish	JMA Wireless	MX08FRO665-20	Panel	600	5G	0	68	11.45	6	4	30.00	1493.42	2450.09	55.00	0.000517	400.00	0.000129
39	Dish	JMA Wireless	MX08FRO665-20	Panel	1900	5G	0	62	16.15	6	4	40.00	5876.52	9640.95	55.00	0.000532	1000.00	0.000053
39	Dish	JMA Wireless	MX08FRO665-20	Panel	2190	5G	0	64	16.65	6	4	40.00	6593.56	10817.33	55.00	0.001225	1000.00	0.000122
40	Dish	JMA Wireless	MX08FRO665-20	Panel	600	5G	120	68	11.45	6	4	30.00	1493.42	2450.09	55.00	0.445641	400.00	0.111410
40	Dish	JMA Wireless	MX08FRO665-20	Panel	1900	5G	120	62	16.15	6	4	40.00	5876.52	9640.95	55.00	0.662195	1000.00	0.066219
40	Dish	JMA Wireless	MX08FRO665-20	Panel	2190	5G	120	64	16.65	6	4	40.00	6593.56	10817.33	55.00	0.528935	1000.00	0.052893
41	Dish	JMA Wireless	MX08FRO665-20	Panel	600	5G	240	68	11.45	6	4	30.00	1493.42	2450.09	55.00	0.000122	400.00	0.000030
41	Dish	JMA Wireless	MX08FRO665-20	Panel	1900	5G	240	62	16.15	6	4	40.00	5876.52	9640.95	55.00	0.000117	1000.00	0.000012
41	Dish	JMA Wireless	MX08FRO665-20	Panel	2190	5G	240	64	16.65	6	4	40.00	6593.56	10817.33	55.00	0.000047	1000.00	0.000005
42	Unknown	CommScope	DB201-A	Omni	850	LTE	360	360	3.18	2	1	60.00	111.21	182.45	100.00	0.024025	566.67	0.004240
43	Unknown	CommScope	DB201-A	Omni	850	LTE	360	360	3.18	2	1	60.00	111.21	182.45	100.00	0.028616	566.67	0.005050
44	Unknown	CommScope	DB201-A	Omni	850	LTE	360	360	3.18	2	1	60.00	111.21	182.45	100.00	0.022631	566.67	0.003994
45	Unknown	KMW	HB-X-AW-19-65-00T	Panel	2100	LTE	0	63	16.85	6	1	60.00	2589.11	4247.67	106.00	0.000346	1000.00	0.000035
46	Unknown	Andrew	DB432-A	Omni	850	LTE	360	360	3.18	2	1	60.00	337.40	553.54	97.00	0.018457	566.67	0.003257
47	Unknown	Andrew	DB432-A	Omni	850	LTE	360	360	3.18	2	1	60.00	337.40	553.54	97.00	0.032269	566.67	0.005695
48	Unknown	Andrew	DB432-A	Omni	850	LTE	360	360	3.18	2	1	60.00	337.40	553.54	97.00	0.000000	566.67	0.000000
49	Unknown	Andrew	DB432-A	Omni	850	LTE	360	360	3.18	2	1	60.00	337.40	553.54	97.00	0.000000	566.67	0.000000
Calculated Power Density ($\mu\text{W}/\text{cm}^2$)																9.246278%	Calculated MPE%	1.2341%

Table 2.4: Antenna Inventory & Power Data

*NOTE: 75% Duty Cycle and adjusted power reduction factor of 0.32 was applied to the AIR6449 & AIR6449 antennas per guidance from AT&T. Specifications were not available for the Ericsson AIR 6449 antenna. Per AT&T, specifications for the AIR 6449 antenna were used to model the 6449 due to its similarity.

3. Compliance Summary

The theoretical calculations performed for this analysis yielded results that were **within** the allowable limits for general public exposure to RF Emissions.

The anticipated composite MPE value for this site assuming all carriers present is 1.2341% of the allowable FCC established general public limit sampled at the ground level.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were within the allowable 100% threshold standard per the federal government.



AT&T SITE NUMBER:
CTL05378

BU #: 842869
MERIDEN WEST CENTRAL

450-478 WEST MAIN STREET
MERIDEN, CT 06451

EXISTING
100'-0" MONOPOLE

ISSUED FOR:

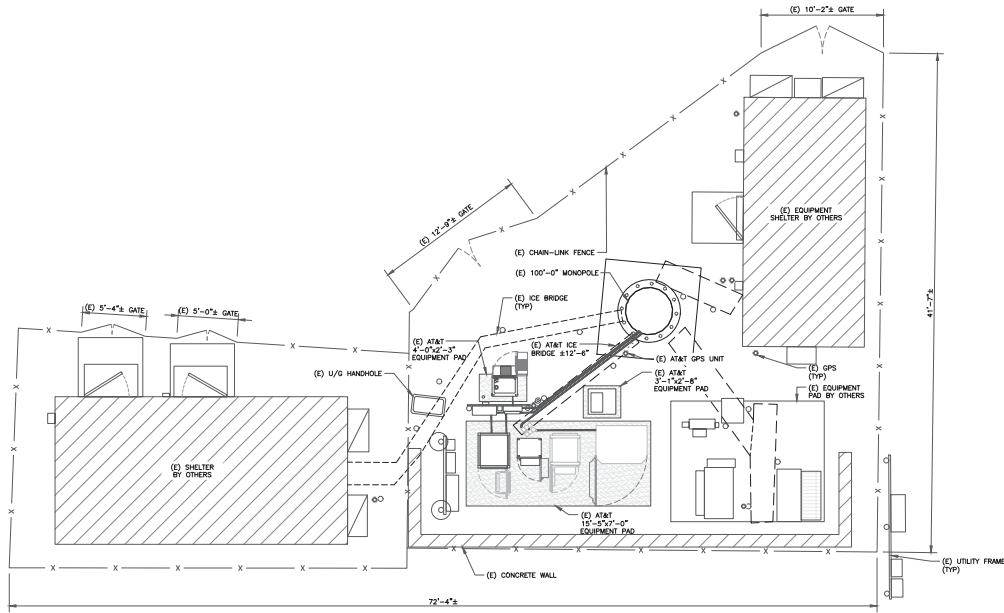
REV.	DATE	BY	DESCRIPTION	DES. Q2
B	4/16/23	XX	PRELIMINARY REVIEW	LR
0	8/22/23	XX	CONSTRUCTION	LR
1	11/09/23	TDC	CONSTRUCTION	LR
2	11/28/23	TDC	CONSTRUCTION	LR
3	1/11/24	XX	CONSTRUCTION	LR



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BER:23869C
Expires 3/31/24

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SHEET NUMBER: **C-1.1** REVISION: **3**

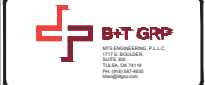


1 SITE PLAN
SCALE: 1/8"=1'-0" (FULL SIZE)
1/8"=1'-0" (1:144)



FINAL EQUIPMENT SCHEDULE
(VERIFY WITH CURRENT RFDS)

ALPHA																		
POSITION	ANTENNA				RADIO				DIPLEXER		TMA		SURGE PROTECTION		CABLES			
	TECH.	STATUS/MANUFACTURER MODEL	AZIMUTH	ELEVATION	QTY.	STATUS/MODEL	LOCATION	QTY.	STATUS	LOCATION	QTY.	STATUS/MODEL	QTY.	STATUS/MODEL	QTY.	STATUS/TYPE	SIZE	LENGTH
A2	LTE/5G	QUINTEL - OD6616-7	45°	99°-0'	1	(E) 4478 B14	TOWER	1	-	-	-	-	1	(E) DC6-48-60-18-BF	1	(E) 18 PAIR FIBER	3/8"	149'-0"
					1	(E) RRUS-32 B2	TOWER								2	(E) COAX	1-1/4"	149'-0"
					1	(E) RRUS-32 B66A	TOWER								2	(E) BANG DC	13/16"	149'-0"
A3	5G Dcd 5G CBAND	(N) ERICSSON - AIR6419 B770	45°	100°-9' 97°-3'	1	INTEGRATED WITHIN	TOWER	1	-	-	-	-	-	-	-	-	-	-
					1	(N) 4449 B5/B12	TOWER											
					1	(N) Y-CABLE	TOWER											
A4	LTE/5G	CCI - OPA65R-BLUDA	45°	99°-0'	1	(N) 4449 B5/B12	TOWER	1	-	-	-	-	-	-	-	-	-	-
					1	(E) RRUS-32 B30	TOWER											
BETA																		
B2	LTE/5G	QUINTEL - OD6616-7	170°	99°-0'	1	(E) 4478 B14	TOWER	1	-	-	-	-	1	(E) DC6-48-60-18-BF	1	(E) 18 PAIR FIBER	3/8"	149'-0"
					1	(E) RRUS-32 B2	TOWER								2	(E) COAX	1-1/4"	149'-0"
					1	(E) RRUS-32 B66A	TOWER								2	(E) BANG DC	13/16"	149'-0"
B3	5G Dcd 5G CBAND	(N) ERICSSON - AIR6419 B770	170°	100°-9' 97°-3'	1	INTEGRATED WITHIN	TOWER	1	-	-	-	-	-	-	-	-	-	-
					1	(N) 4449 B5/B12	TOWER											
					1	(N) Y-CABLE	TOWER											
B4	LTE/5G	CCI - OPA65R-BLUDA	170°	99°-0'	1	(N) 4449 B5/B12	TOWER	1	-	-	-	-	-	-	-	-	-	-
					1	(E) RRUS-32 B30	TOWER											
GAMMA																		
C2	LTE/5G	QUINTEL - OD6616-7	290°	99°-0'	1	(E) 4478 B14	TOWER	1	-	-	-	-	1	(N) DC9-48-60-24-BC-BV	2	(E) COAX	1-1/4"	149'-0"
					1	(E) RRUS-32 B2	TOWER								2	(E) COAX	1-1/4"	149'-0"
					1	(E) RRUS-32 B66A	TOWER								2	(E) BANG DC	13/16"	149'-0"
C3	5G Dcd 5G CBAND	(N) ERICSSON - AIR6419 B770	290°	100°-9' 97°-3'	1	INTEGRATED WITHIN	TOWER	1	-	-	-	-	-	-	-	-	-	-
					1	(N) 4449 B5/B12	TOWER											
					1	(N) Y-CABLE	TOWER											
C4	LTE/5G	CCI - OPA65R-BLUDA	290°	99°-0'	1	(N) 4449 B5/B12	TOWER	1	-	-	-	-	-	-	-	-	-	-
					1	(E) RRUS-32 B30	TOWER											



AT&T SITE NUMBER:
CTL05378

BU #: 842869
MERIDEN WEST CENTRAL

450-478 WEST MAIN STREET
MERIDEN, CT 06451

EXISTING
100'-0" MONOPOLE

ISSUED FOR:			
REV.	DATE	DESCRIPTION	DESIGN
B	4/10/21	XX PRELIMINARY REVIEW	LR
0	4/21/21	XX CONSTRUCTION	LR
1	11/20/20	TDC CONSTRUCTION	LR
2	11/20/20	TDC CONSTRUCTION	LR
3	11/24/20	XX CONSTRUCTION	LR



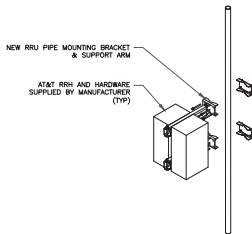
MTS ENGINEERING, P.L.L.C.
BER:236606
Expires 3/31/24

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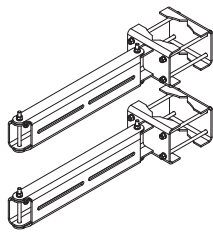
SHEET NUMBER: **C-3** REVISION: **3**

1 FINAL ANTENNA AND FEEDLINE SCHEDULE
SCALE: NOT TO SCALE

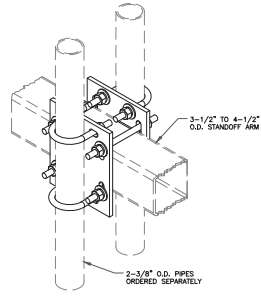
INSTALLER NOTES:
 1. COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRHs RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING.
 2. DO NOT OPEN RRH PACKAGES IN THE RAIN.
 3. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.
 4. RRHs SHALL NOT BE INSTALLED CLOSER THAN 8" TO ANTENNAS.



1 DUAL RRH MOUNTING DETAIL
 SCALE: NOT TO SCALE

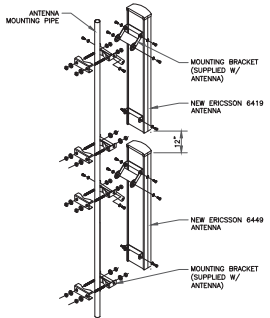


2 DUAL RADIO MOUNT
 SCALE: NOT TO SCALE



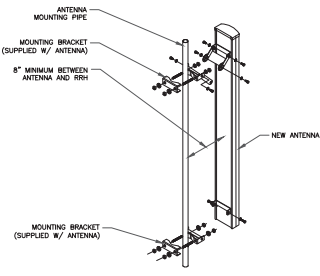
3 VALMONT - BBPM-K1
 SCALE: NOT TO SCALE

INSTALLER NOTE:
 ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.



4 STACKED ANTENNA MOUNTING DETAIL
 SCALE: NOT TO SCALE

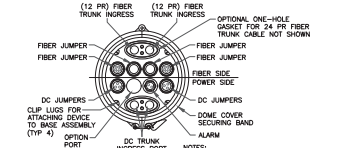
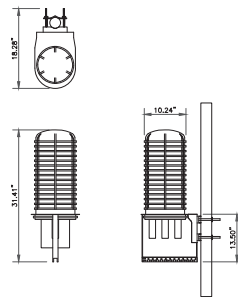
INSTALLER NOTE:
 1. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.
 2. 8" MINIMUM DISTANCE REQUIRED BETWEEN ANTENNA & RADIO. SEE GENERIC EXAMPLE DETAIL ON SHEET C-4.



5 ANTENNA MOUNTING DETAIL
 SCALE: NOT TO SCALE

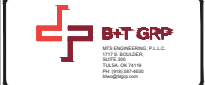
RAYCAP
 DC9-48-60-24-8C-EV

RAYCAP - DC9-48-60-24-8C-EV
 SIZE: 10.24x31.40 IN.
 WEIGHT: 28.2 LBS
 NOMINAL OPERATING VOLTAGE: 48 VDC
 VOLTAGE PROTECTION RATING: 330 V
 WIND LOADING: 150 MPH SUSTAINED (105.7 LBS)
 WIND LOADING: 190 MPH GUST (213.6 LBS)



NOTES:
 1. REMOVE CABLE SEALING GLAND AND INSTALL M20x1.5 METRIC TO-1\"/>

6 SQUID MOUNTING DETAIL
 SCALE: NOT TO SCALE



AT&T SITE NUMBER:
CTL05378

BU #: 842869
MERIDEN WEST CENTRAL

450-478 WEST MAIN STREET
 MERIDEN, CT 06451

EXISTING
 100'-0" MONOPOLE

ISSUED FOR:

REV	DATE	BY	DESCRIPTION	DES. Q2
B	4/10/23	XX	PRELIMINARY REVIEW	LR
0	4/20/23	XX	CONSTRUCTION	LR
1	11/09/23	TDC	CONSTRUCTION	LR
2	11/28/23	TDC	CONSTRUCTION	LR
3	1/13/24	XX	CONSTRUCTION	LR

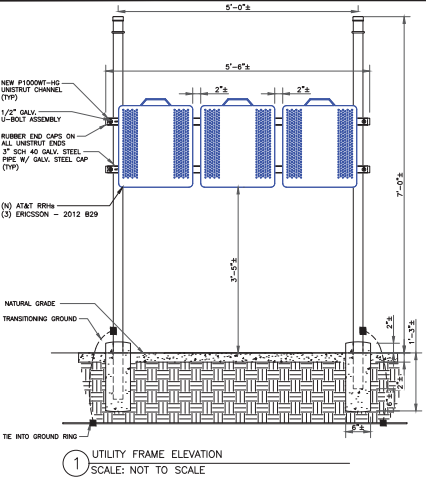


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 BER:2360805
 Expires: 3/31/24

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SHEET NUMBER: **C-4** REVISION: **3**

92899.009.01_84886_MERIDEN WEST CENTRAL.dwg - SheetC-4.1 - User: flcourder - Jan 03, 2024 - 6:09pm



2 NOT USED
 SCALE: NOT TO SCALE

3 NOT USED
 SCALE: NOT TO SCALE

4 NOT USED
 SCALE: NOT TO SCALE

5 NOT USED
 SCALE: NOT TO SCALE

6 NOT USED
 SCALE: NOT TO SCALE



AT&T SITE NUMBER:
CTL05378

BU #: 842869
MERIDEN WEST CENTRAL

450-478 WEST MAIN STREET
 MERIDEN, CT 06451

EXISTING
 100'-0" MONOPOLE

ISSUED FOR:

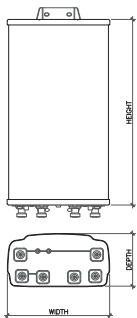
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B	4/16/23	XX	PRELIMINARY REVIEW	LR
0	8/22/23	XX	CONSTRUCTION	LR
1	11/20/23	TDC	CONSTRUCTION	LR
2	11/28/23	TDC	CONSTRUCTION	LR
3	1/1/24	XX	CONSTRUCTION	LR



MTS ENGINEERING P.L.L.C.
 BER:236606
 Expires 3/31/24

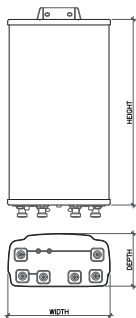
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SHEET NUMBER: **C-4.1** REVISION: **3**



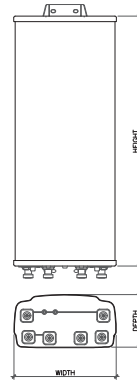
ANTENNA DIMENSIONS (INCHES)					
MANUFACTURER	MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
ERICSSON	AR 6449 877D	30.3"	15.87"	8.07"	81.6 LBS

1 ANTENNA DETAIL
SCALE: NOT TO SCALE



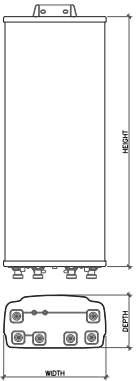
ANTENNA DIMENSIONS (INCHES)					
MANUFACTURER	MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
ERICSSON	AR6419 877G	31.1"	16.1"	7.3"	44 LBS

2 ANTENNA DETAIL
SCALE: NOT TO SCALE



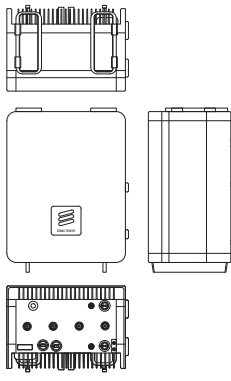
ANTENNA DIMENSIONS (INCHES)					
MANUFACTURER	MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
QUINTEL	QD6616-7	72.00"	22"	9.6"	114 LBS

3 ANTENNA DETAIL
SCALE: NOT TO SCALE



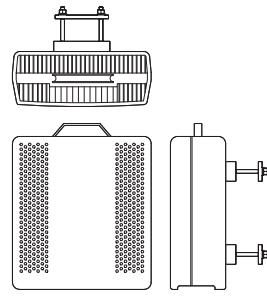
ANTENNA DIMENSIONS (INCHES)					
MANUFACTURER	MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
CCI	OP465R-BU6DA	71.2"	20.7"	7.7"	63.3 LBS

4 ANTENNA DETAIL
SCALE: NOT TO SCALE



ERICSSON - RADIO 4449
WEIGHT: 70.0 LBS
SIZE (HxWxD): 18.0x13.2x4 IN.

5 ERICSSON - RADIO 4449
SCALE: NOT TO SCALE



ERICSSON - RRUS 2012
WEIGHT (FULLY EQUIPPED): 52.9 LBS.
SIZE (HxWxD): 20.4x18.5x7.5 IN.

6 ERICSSON - RRUS 2012
SCALE: NOT TO SCALE



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450-478 WEST MAIN STREET
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EXISTING
100'-0" MONOPOLE

ISSUED FOR:				
REV	DATE	DRWN	DESCRIPTION	DES. Q2
0	4/10/21	XX	PRELIMINARY REVIEW	LR
0	8/21/21	XX	CONSTRUCTION	LR
1	11/20/21	TDC	CONSTRUCTION	LR
2	11/20/21	TDC	CONSTRUCTION	LR
3	11/24/21	XX	CONSTRUCTION	LR

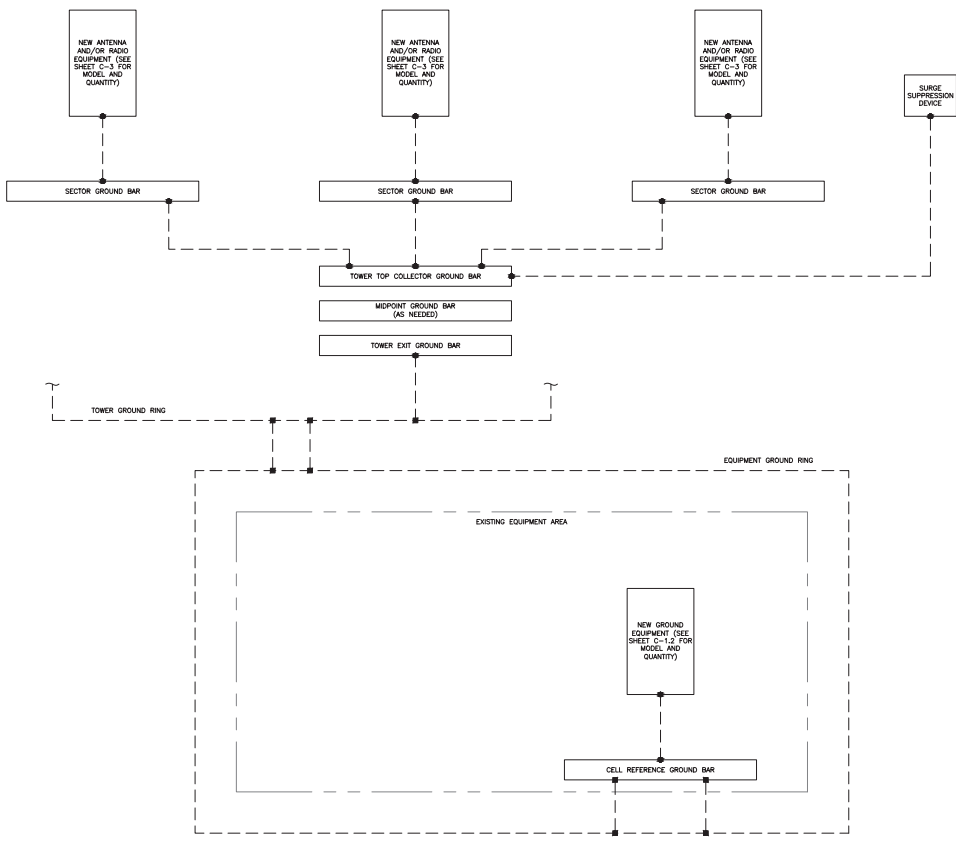


MTS ENGINEERING P.L.L.C.
BER:2366265
Expires: 3/31/24

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TO REPRODUCE THIS DOCUMENT.

SHEET NUMBER: C-5	REVISION: 3
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92899.009.01_84886_MERIDEN WEST CENTRAL.dwg - SheetC-1 - User: lbauder - Jan 03, 2024 - 6:09pm



1 GROUNDING SCHEMATIC
SCALE: NOT TO SCALE

GROUNDING PLAN LEGEND:

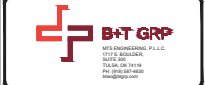
- GROUND WIRE
- EXOTHERMIC WELD
- MECHANICAL CONNECTION
- COPPER GROUND ROD
- ⊗ GROUND ROD W/ TEST WELL

CELL REFERENCE GROUND BARS: POINT OF GROUND REFERENCE FOR ALL COMMUNICATIONS EQUIPMENT FRAMES. ALL BONDS ARE MADE WITH #2 STRANDED GREEN INSULATED COPPER CONDUCTORS, BOND TO GROUND RING WITH (2) #2 SOLID TINNED COPPER CONDUITS (ATI-TP-76416 7.6.7).

HATCH PLATE GROUND BARS: BOND TO THE INTERIOR GROUND RING WITH (2) #2 STRANDED GREEN INSULATED COPPER CONDUCTORS. WHEN A HATCH-PLATE AND A CELL REFERENCE GROUND BAR ARE BOTH PRESENT, THE CELL SITE REFERENCE GROUND BAR MUST BE CONNECTED TO THE HATCH-PLATE AND TO THE INTERIOR GROUND RING USING (2) #2 STRANDED GREEN INSULATED COPPER CONDUCTORS.

EXTERIOR CABLE ENTRY POINT GROUND BARS: LOCATED AT THE ENTRANCE TO THE CELL SITE BUILDING, BOND TO GROUND RING WITH A #2 SOLID TINNED COPPER CONDUCTORS WITH AN EXOTHERMIC WELD AND INSPECTION SLEEVE (ATI-TP-76416 7.6.7.2).

DURING ALL DC POWER SYSTEM CHANGES INCLUDING DC SYSTEM CHANGE OUTS, RECTIFIER REPLACEMENTS OR ADDITIONS, BREAKER DISTRIBUTION CHANGES, BATTERY ADDITIONS, BATTERY REPLACEMENTS AND INSTALLATIONS OR CHANGES TO DC CONVERTER SYSTEMS IT SHALL BE REQUIRED THAT SERVICES CONTRACTORS VERIFY ALL DC POWER SYSTEMS ARE EQUIPPED WITH WASTES DC SYSTEM RETURN GROUND CONDUCTOR FROM THE DC POWER SYSTEM COMMON RETURN BUS DIRECTLY CONNECTED TO THE CELL SITE REFERENCE GROUND BAR PER TPI#300 SECTION H.6 AND TPI#416 FIGURE 7-11 REQUIREMENTS.



AT&T SITE NUMBER:
CTL05378

BU #: 842869
MERIDEN WEST CENTRAL

450-478 WEST MAIN STREET
MERIDEN, CT 06451

EXISTING
100'-0" MONOPOLE

ISSUED FOR:

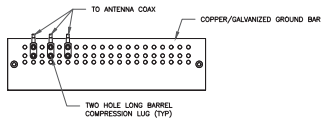
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1	8/21/23	XX	CONSTRUCTION	LR
1	11/09/23	TDC	CONSTRUCTION	LR
2	11/28/23	TDC	CONSTRUCTION	LR
3	1/1/24	XX	CONSTRUCTION	LR



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BER:2366065
Expires 3/31/24

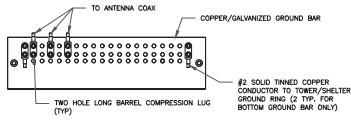
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SHEET NUMBER: **G-1** REVISION: **3**



- NOTES:
1. DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
 2. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
 3. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO ANTENNA MOUNT STEEL.

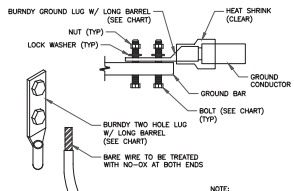
1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE



- NOTES:
1. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
 2. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
 3. GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

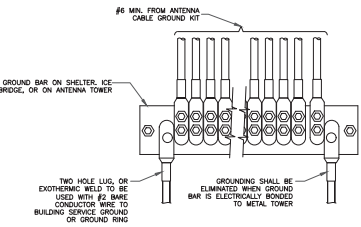
2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE

WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 SOLID TINNED	YA3C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 STRANDED	YA3C-2TC38	3/8" - 16 NC SS 2 BOLT
#2/0 STRANDED	YA26-2TC38	3/8" - 16 NC SS 2 BOLT
#4/0 STRANDED	YA28-2N	1/2" - 16 NC SS 2 BOLT



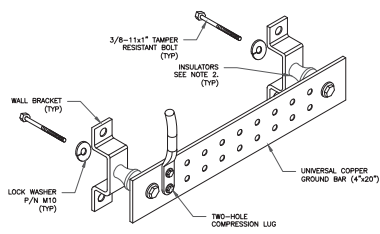
- NOTE:
- ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

3 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



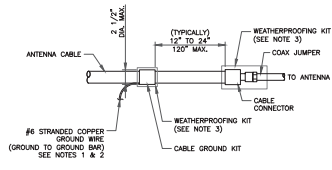
- NOTE:
- TWO HOLE LUG OR EXOTHERMIC WELD TO BE USED WITH #2 BARE CONDUCTOR WIRE TO BUILDING SERVICE GROUND OR GROUND RING
- GROUNDING SHALL BE ELIMINATED WHEN GROUND BAR IS ELECTRICALLY BONDED TO METAL TOWER

4 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



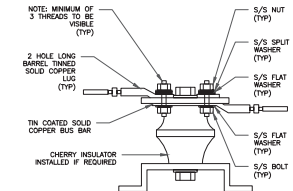
- NOTES:
1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER. PER THE GROUNDING DOWN CONDUCTOR POLICY (GAS-STD-1000). NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION. CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
 2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL. USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTER.

5 GROUND BAR DETAIL
SCALE: NOT TO SCALE

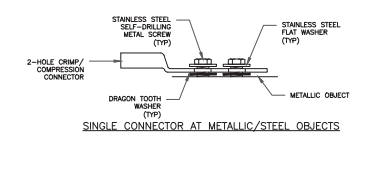
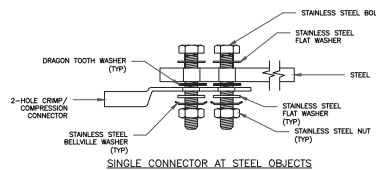
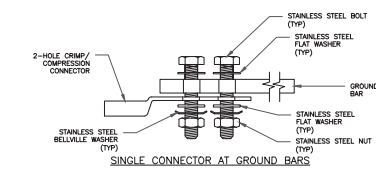


- NOTES:
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
 3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

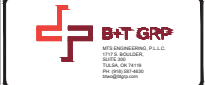
6 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE



8 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



AT&T SITE NUMBER:
CTL05378

BU #: 842869
MERIDEN WEST CENTRAL

450-478 WEST MAIN STREET
MERIDEN, CT 06451

EXISTING
100'-0" MONOPOLE

ISSUED FOR:

REV	DATE	BY	DESCRIPTION	DES. Q2
B	4/16/21	XX	PRELIMINARY REVIEW	LR
0	8/21/21	XX	CONSTRUCTION	LR
1	11/16/23	TDC	CONSTRUCTION	LR
2	11/26/23	TDC	CONSTRUCTION	LR
3	1/15/24	XX	CONSTRUCTION	LR



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Expires 3/31/24

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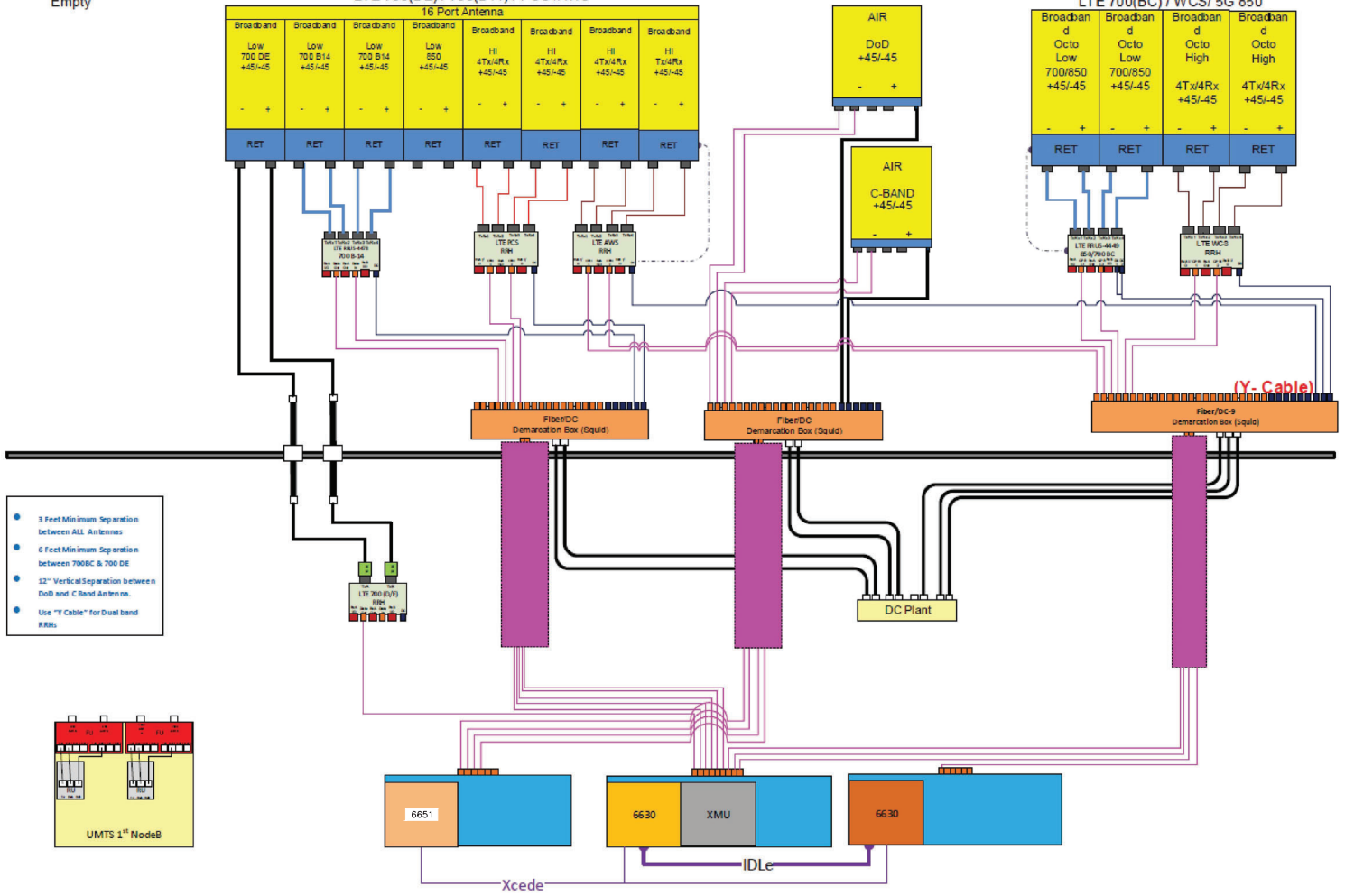
SHEET NUMBER: **G-2** REVISION: **3**

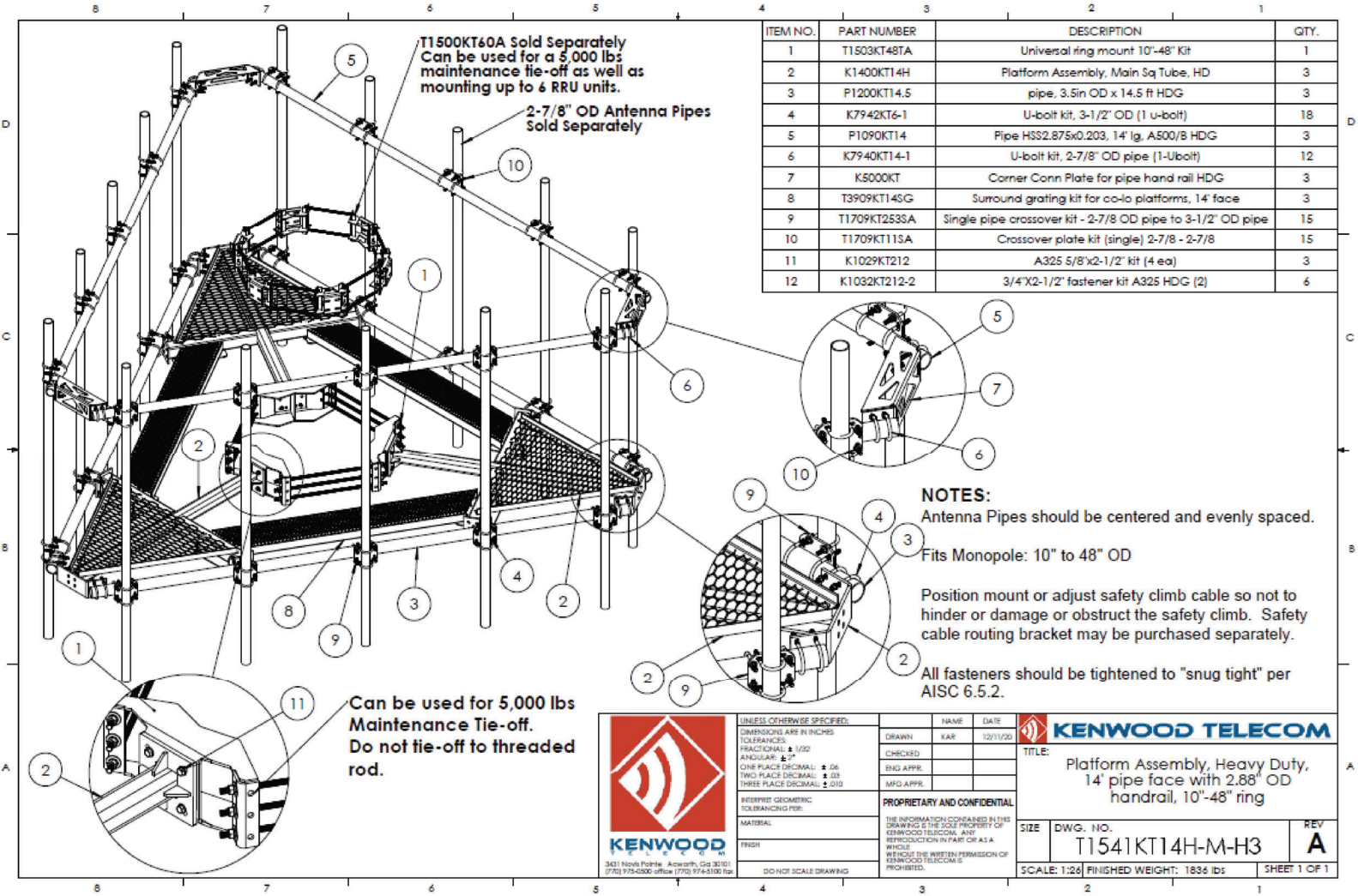
Antenna 1
Empty

Antenna 2
LTE 700(DE) / 700(B14) / PCS / AWS

Antenna 3
DoD + C band


Antenna 4
LTE 700(BC) / WCS / 5G 850





ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	T1503KT48TA	Universal ring mount 10'-48" Kit	1
2	K1400KT14H	Platform Assembly, Main Sq Tube, HD	3
3	P1200KT14.5	pipe, 3.5in OD x 14.5 ft HDG	3
4	K7942KT6-1	U-bolt kit, 3-1/2" OD (1 U-bolt)	18
5	P1090KT14	Pipe HSS2.875x0.203, 14' lg, A500/B HDG	3
6	K7940KT14-1	U-bolt kit, 2-7/8" OD pipe (1-U-bolt)	12
7	K5000KT	Corner Conn Plate for pipe hand rail HDG	3
8	T3909KT14SG	Surround grating kit for co-la platforms, 14' face	3
9	T1709KT253SA	Single pipe crossover kit - 2-7/8 OD pipe to 3-1/2" OD pipe	15
10	T1709KT11SA	Crossover plate kit (single) 2-7/8 - 2-7/8	15
11	K1029KT212	A325 5/8"x2-1/2" kit (4 ea)	3
12	K1032KT212-2	3/4"x2-1/2" fastener kit A325 HDG (2)	6

NOTES:
 Antenna Pipes should be centered and evenly spaced.
 Fits Monopole: 10" to 48" OD
 Position mount or adjust safety climb cable so not to hinder or damage or obstruct the safety climb. Safety cable routing bracket may be purchased separately.
 All fasteners should be tightened to "snug tight" per AISC 6.5.2.



KENWOOD
TELECOM

3421 Nevada Parkway, Alhambra, CA 91803
(770) 975-0500 office (770) 974-6100 fax

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL: ± 1/32
 ANGULAR: ± 1°
 ONE PLACE DECIMAL: ± .06
 TWO PLACE DECIMAL: ± .03
 THREE PLACE DECIMAL: ± .010

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL:

FINISH:

DO NOT SCALE DRAWING

NAME	DATE
DRAWN: KAR	12/11/20
CHECKED:	
ENG APPR:	
MFG APPR:	

PROPRIETARY AND CONFIDENTIAL

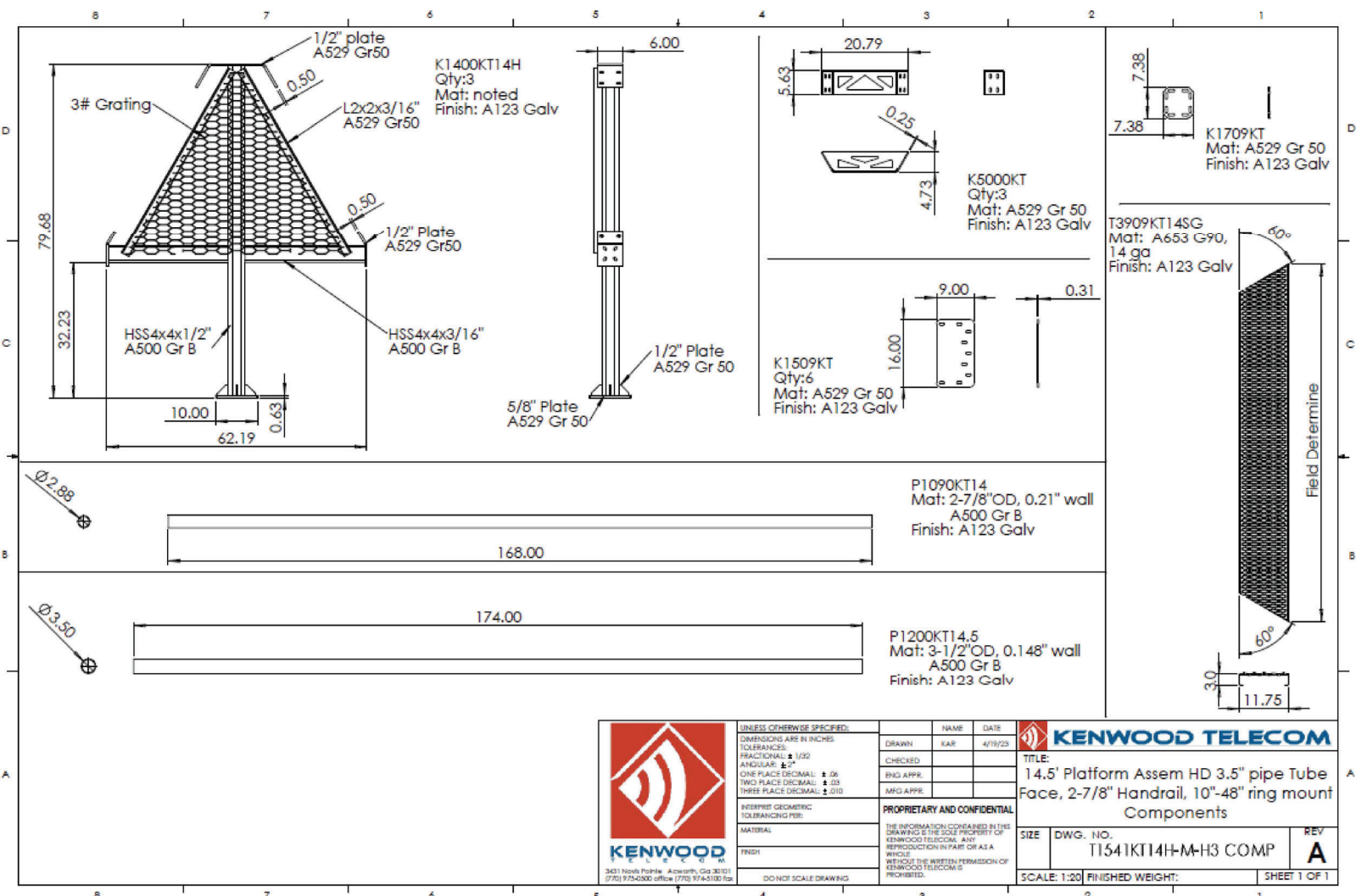
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KENWOOD TELECOM

TITLE: Platform Assembly, Heavy Duty, 14' pipe face with 2.88" OD handrail, 10'-48" ring

SIZE: DWG. NO. T1541KT14H-M-H3 REV **A**

SCALE: 1:24 FINISHED WEIGHT: 1836 lbs SHEET 1 OF 1



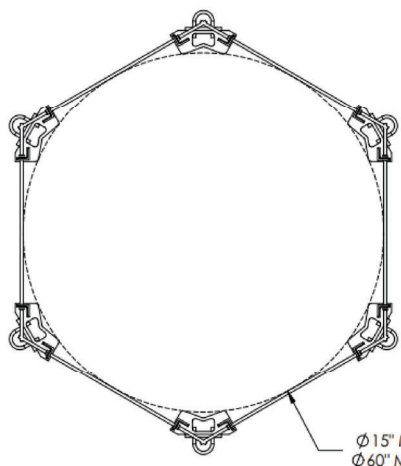
UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN INCHES		DRAWN	KAP 4/7/92
TOLERANCES:		CHECKED	
FRACTIONAL: ± 1/32		ENG APPR.	
ANGULAR: ± 2°		MFG APPR.	
ONE PLACE DECIMAL: ± .06			
TWO PLACE DECIMAL: ± .03			
THREE PLACE DECIMAL: ± .010			
INTERPRET GEOMETRIC TOLERANCING PER:		PROPRIETARY AND CONFIDENTIAL	
MATERIAL:		THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF KENWOOD TELECOM. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF KENWOOD TELECOM IS PROHIBITED.	
FINISH:		SIZE	
DO NOT SCALE DRAWING		DWG. NO.	

KENWOOD TELECOM
 TITLE:
 14.5' Platform Assem HD 3.5" pipe Tube Face, 2-7/8" Handrail, 10"-48" ring mount Components
 SCALE: 1:20 FINISHED WEIGHT:
 SHEET 1 OF 1

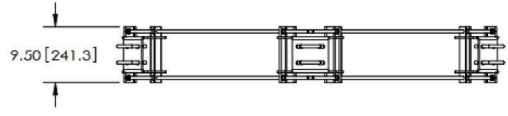
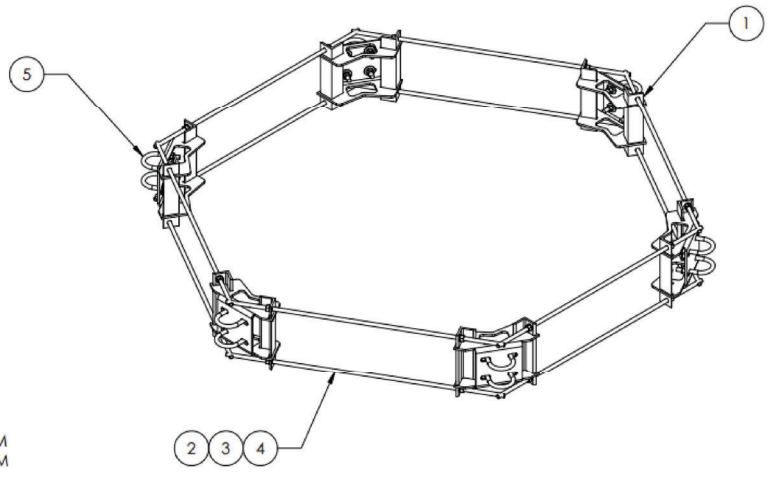
REV **A**

ITEM	PART NO.	DESCRIPTION	QTY.	WEIGHT
1	MTC320001	RRU Ringmount	6	10.52 LBS
2	GWL-04	1/2" GALV LOCK WASHER	24	0.09 LBS
3	GN-04	1/2" GALV HEX NUT	24	0.04 LBS
4	MT37936	1/2" X 36" GALV THREADED ROD	12	1.99 LBS
5	GUB-4240	1/2" X 2-1/2" X 4" GALV U-BOLT	12	0.57 LBS

REVISIONS			
REV.	ZONE	DESCRIPTION	BY
A		INITIAL RELEASE	MSM
B		ADDED U-BOLTS TO ASSEMBLY	DRR



Ø15" MINIMUM
Ø60" MAXIMUM



SUGGESTED CUT CHART

MOUNTING DIAMETER	ALLTHREAD LENGTH
Ø 15"	9.5"
Ø 20"	12.0"
Ø 25"	14.5"
Ø 30"	17.0"
Ø 35"	20.0"
Ø 40"	22.5"
Ø 45"	25.0"
Ø 50"	27.5"
Ø 55"	30.0"
Ø 60"	32.5"

- NOTES:
 1. ALL METRIC DIMENSIONS ARE IN BRACKETS.
 2. FIELD VERIFY ALL DIMENSIONS PRIOR TO CUTTING ALL-THREAD.

<small>These drawings and specifications are the property of Andrew Corporation and may be used only for the specific purpose indicated in writing by Andrew Corporation.</small> <small>ALL DIMENSIONS ARE IN INCHES U.S.S. TOLERANCES UNLESS OTHERWISE SPECIFIED:</small> <small>X = ± .12 ANGLES ±2°</small> <small>.XX = ± .06 FRACTIONS ±1/32</small> <small>.XXX = ± .031</small> <small>REMOVE BURRS AND BREAK EDGES OFF</small> <small>DO NOT SCALE THIS PRINT</small>		DRAWING NO. MSM REV. 1 of 2 DATE 11/29/11 REGION B	PART NAME RR-RM1560 DESCRIPTION 6-Sector RingMount 15" to 60" DRAWING BY A36, A509 PART NO. GALV A123 WEIGHT 97.31 KG	WESTCHESTER, IL 60154 ANDREW U.S.A.
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