Crown Castle
3 Corporate Park Drive, Suite 101
Clifton Park, NY 12065

August 25, 2022

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

RE: **Notice of Exempt Modification for T-Mobile: CT11161D**
Crown Site ID# 806369
439-455 Homestead Ave, Hartford, CT 06105
Latitude: 41° 47′ 1.61″ / Longitude: -72° 42′ 13.66″

Dear Ms. Bachman:

T-Mobile currently maintains nine (9) antennas at the 128' mount level on the existing 140' monopole tower located at 439-455 Homestead Ave, Hartford CT. The property is owned by Talar Properties LLC and the tower is owned by Crown Castle. T-Mobile now intends to replace six (6) antennas and ancillary equipment and install at the 128' level of the tower. 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:

Installed New:
(3) Ericsson Air 6419 B41 Antennas
(3) Commscope- W-65B-R1 Antennas
(3) Ericsson-Radio 4460 B25+ B66 RRU
(3) Hybrid Cable 6x24
Mount Modification by POD Group Engineers

Remove:
(3) Ericsson Air32 KRD0901146-1_B66A_B2A Antennas
(3) Ericsson Air21 KCR118023-1_B2A_B4P Antennas
(3) Generic Twin Style 1B-AWS TMAs
(9) Coaxial Cables 7/8"

Ground:

Install New

(1) 6160 Cabinet
(1.) B160 Battery Cabinet
(1) RP 6651
(1) PSU 4813 vR2A
(1) CRS IXRc V2

Remove:

(1) Equipment Cabinet
(2) DUW30
(6.) RU22

The original facility was approved by the Connecticut Siting Council via Certificate of Environmental Compatibility Docket No. 126 on April 9, 1990. The approval was given with conditions which this exempt modification complies with

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 Luke Bronin, Mayor, City of Hartford, CT, Charles Matthews, Director of Development Services, City of Hartford, CT and Talar Properties LLC, property owner. 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, T-Mobile 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.

Sincerely,

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

Attachments
cc:

Luke Bronin, Mayor
Hartford City Hall
550 Main Street, 2nd Floor, Room 200
Hartford, CT 06103
860-757-9040

Charles Matthews, Director of Development Services
City of Hartford
260 Constitutional Plaza, 1st Floor
Hartford, CT 06103
860-757-9040

Talar Properties LLC, Property Owner
705 N Mountain Road
Newington, CT 06111

Crown Castle, Tower Owner

DOCKET NO. 126 - AN APPLICATION OF METRO MOBILE CTS OF HARTFORD, INC., FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED FOR THE CONSTRUCTION, OPERATION, AND MAINTENANCE OF A CELLULAR TELEPHONE TOWER AND ASSOCIATED EQUIPMENT IN THE CITY OF HARTFORD, CONNECTICUT.	:	Connecticut Siting Council
	:	April 9, 1990

D E C I S I O N A N D O R D E R

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council finds that the effects associated with the construction, operation, and maintenance of a cellular telephone facility at the proposed Hartford site, including effects on the natural environment; ecological integrity and balance; forests and parks; air and water purity; and fish and wildlife are not significant either alone or cumulatively with other effects, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application, and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by Section 16-50k of the General Statutes of Connecticut (CGS), be issued to Metro Mobile CTS of Hartford, Inc., for the construction, operation, and maintenance of a cellular telecommunications tower, associated equipment, and building at the proposed site in Hartford, Connecticut.

The facility shall be constructed, operated, and maintained substantially as specified in the Council's record in this matter, and subject to the following conditions:

1. The monopole tower including antennas and associated equipment shall not exceed a height of 153 feet above ground level, 215 feet AMSL.

2. The facility shall be constructed in accordance with the State of Connecticut Basic Building Code.

3. The tower shall be designed and constructed to withstand 125 mph winds with two-inch radial ice accumulation.

4. The Certificate Holder shall prepare a Development and Management (D&M) plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of State Agencies. The D&M plan shall include detailed plans of the site preparation with a soil boring report; plans, design details, and specifications for the tower foundation; and a site plan with placement of the tower as far removed from abutting properties and structures as possible.

5. The Certificate Holder shall prepare the D&M plan in consultation with the City of Hartford, which may provide its comments to the Council within 20 days of submission to the City.

6. The Certificate Holder shall comply with existing and any future radio frequency (RF) standard promulgated by State or federal regulatory agencies. Upon the establishment of any new governmental RF standards, the facility granted in this Decision and Order shall be brought into compliance with such standards.

7. The Certificate Holder shall provide the Council a recalculated report of power density if and when additional channels over the proposed 90 channels, higher wattage over the proposed 100 watts per channel, or if other circumstances in operation cause a change in power density above the levels originally calculated in the application.

8. The Certificate Holder shall permit public or private entities to share space on the tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.

9. If this facility does not initially provide, or permanently ceases to provide, cellular service following the completion of construction, this Decision and Order shall be void, and the tower and all associated equipment in this application shall be dismantled and removed or reapplication of any new use shall be made to the Council before any such new use is made.

10. Unless otherwise approved by the Council, this Decision and Order shall be void if construction authorized herein is not completed within three years of the effective date of this Decision and Order.

Pursuant to Section 16-50p of the CGS, we hereby direct that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below. A notice of issuance shall be published in the Hartford Courant.

By this Decision and Order, the Council disposes of the legal rights, duties, and privileges of each party named or admitted to the proceeding in accordance with Section 16-50j-17 of the Regulations of State Agencies.

The parties or intervenors to this proceeding are:

(Applicant)

Metro Mobile CTS of
Hartford, Inc.
100 Corporate Drive
Windsor, CT 06095
Attn: Gary N. Schulman
Vice President and
General Manager

(Its Representative)

Robinson & Cole
One Commercial Plaza
Hartford, CT 06103-3597
Attn: Earl W. Phillips
Jr., Esq.

(Intervenor)

SNET Cellular, Inc.
227 Church Street
New Haven, CT 06506

(Its Representative)

Peter J. Tyrrell
Senior Attorney
SNET Cellular, Inc.
227 Church Street
Room 1021
New Haven, CT 06506

JAW

4248E

CERTIFICATION

The undersigned members of the Connecticut Siting Council hereby certify that they have heard this case in Docket No. 126 - An application of Metro Mobile CTS of Hartford, Inc., for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance, and operation of a cellular telephone tower and associated equipment in the City of Hartford, Connecticut, or read the record thereof, and that we voted as follows:

Dated at New Britain, Connecticut the 9th day of April, 1990.

Council Members	Vote Cast
Gloria Dibble Pond Chairperson	Yes
Commissioner Peter Boucher Designee: Robert A. Pulito	Yes
Commissioner Leslie Carothers Designee: Brian Emerick	Yes
Harry E. Covey	Yes
Mortimer A. Gelston	Yes
Daniel P. Lynch, Jr.	Yes
Paulann H. Sheets	Abstain
William H. Smith	Yes
Colin C. Tait	Yes

Unofficial Property Record Card - Hartford, CT

General Property Data

Parcel ID	152-181-002	**Account Number**	
Prior Parcel ID			
Property Owner	TALAR PROPERTIES LLC	**Property Location**	441-455 HOMESTEAD AVE
		Property Use	VAC LAND IND
Mailing Address	705 N MOUNTAIN RD	**Most Recent Sale Date**	3/7/2001
		Legal Reference	04350-0044
City	NEWINGTON	**Grantor**	HUDSON ASSOCIATES
Mailing State	CT Zip 06111-1412	**Sale Price**	0
ParcelZoning	CX-1	**Land Area**	79,715.000 acres

Current Property Assessment

Card 1 Value	Building Value	Xtra Features Value	Land Value	Total Value
	0	0	213,360	213,360

Building Description

Building Style	N/A	**Foundation Type**	N/A	**Flooring Type**	N/A
# of Living Units	0	**Frame Type**	N/A	**Basement Floor**	N/A
Year Built	N/A	**Roof Structure**	N/A	**Heating Type**	N/A
Building Grade	N/A	**Roof Cover**	N/A	**Heating Fuel**	N/A
Building Condition	N/A	**Siding**	N/A	**Air Conditioning**	0%
Finished Area (SF)	0	**Interior Walls**	N/A	**# of Bsmt Garages**	0
Number Rooms	0	**# of Bedrooms**	0	**# of Full Baths**	0
# of 3/4 Baths	0	**# of 1/2 Baths**	0	**# of Other Fixtures**	0

Legal Description

Narrative Description of Property

This property contains 79,715.000 acres of land mainly classified as VAC LAND IND with a(n) N/A style building, built about N/A , having N/A exterior and N/A roof cover, with 0 commercial unit(s) and 0 residential unit(s), 0 room(s), 0 bedroom(s), 0 bath(s), 0 half bath(s).

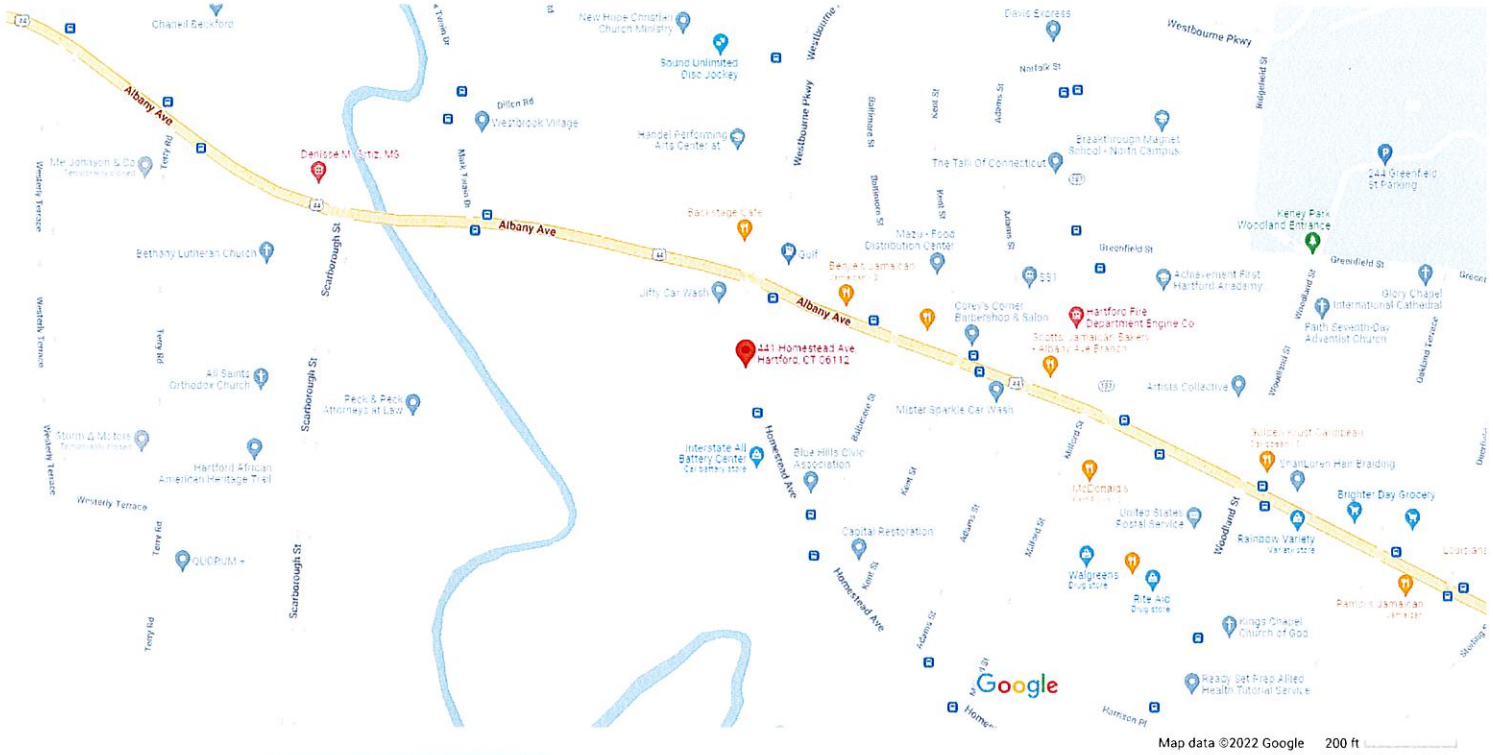
Property Images

SKETCH

07/16/2020

Disclaimer: This information is believed to be correct but is subject to change and is not warranteed.

441 Homestead Ave



441 Homestead Ave

Directions Save Nearby Send to phone Share

441 Homestead Ave, Hartford, CT 06112

Q7MW+9Q Hartford, Connecticut

Photos

Barbadora, Jeff

From: TrackingUpdates@fedex.com
Sent: Friday, August 26, 2022 10:26 AM
To: Barbadora, Jeff
Subject: FedEx Shipment 777765569584: Your package has been delivered

Hi. Your package was delivered Fri, 08/26/2022 at 10:18am.

Delivered to 550 MAIN ST, HARTFORD, CT 06103
Received by G.GABBY

OBTAIN PROOF OF DELIVERY

TRACKING NUMBER 777765569584

FROM	Jeff Barbadora 1800 W. Park Drive WESTBOROUGH, MA, US, 01581
TO	City of Hartford Luke Bronin, Mayor 550 Main Street 2nd Floor, Room 200 HARTFORD, CT, US, 06103
REFERENCE	799001.7680
SHIPPER REFERENCE	799001.7680
SHIP DATE	Thu 8/25/2022 05:43 PM
DELIVERED TO	Receptionist/Front Desk
PACKAGING TYPE	FedEx Envelope
ORIGIN	WESTBOROUGH, MA, US, 01581
DESTINATION	HARTFORD, CT, US, 06103
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	0.50 LB
SERVICE TYPE	FedEx Priority Overnight

Barbadora, Jeff

From: TrackingUpdates@fedex.com
Sent: Friday, August 26, 2022 9:33 AM
To: Barbadora, Jeff
Subject: FedEx Shipment 777765594508: Your package has been delivered

Hi. Your package was delivered Fri, 08/26/2022 at 9:26am.

Delivered to 260 CONSTITUTION PLZ 1, HARTFORD, CT 06103

OBTAIN PROOF OF DELIVERY

TRACKING NUMBER 777765594508

FROM	Jeff Barbadora 1800 W. Park Drive WESTBOROUGH, MA, US, 01581
TO	City of Hartford Charles Matthews, Director 260 Constitutional Plaza, 1st Floor HARTFORD, CT, US, 06103
REFERENCE	799001.7680
SHIPPER REFERENCE	799001.7680
SHIP DATE	Thu 8/25/2022 05:43 PM
PACKAGING TYPE	FedEx Envelope
ORIGIN	WESTBOROUGH, MA, US, 01581
DESTINATION	HARTFORD, CT, US, 06103
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	0.50 LB
SERVICE TYPE	FedEx Priority Overnight

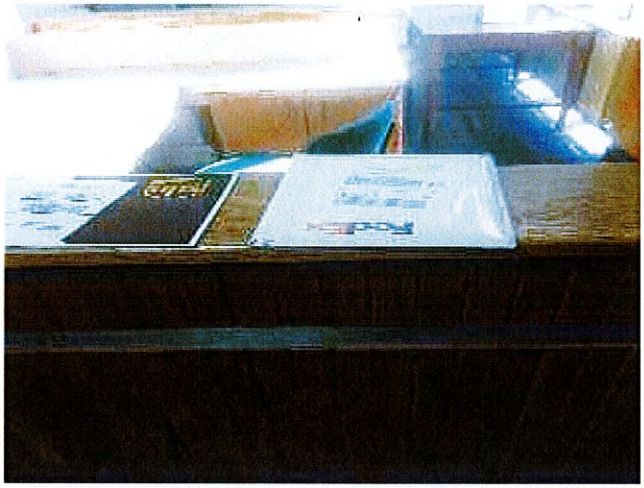
Barbadora, Jeff

From: TrackingUpdates@fedex.com
Sent: Friday, August 26, 2022 9:30 AM
To: Barbadora, Jeff
Subject: FedEx Shipment 777765635247: Your package has been delivered
Attachments: DeliveryPicture.jpeg

Hi. Your package was delivered Fri, 08/26/2022 at 9:20am.

Delivered to 705 N MOUNTAIN RD, NEWINGTON, CT 06111

OBTAIN PROOF OF DELIVERY



Delivery picture not showing? View in browser.

TRACKING NUMBER	777765635247
FROM	Jeff Barbadora 1800 W. Park Drive WESTBOROUGH, MA, US, 01581
TO	Talar Properties LLC Property Owner 705 N Mountain Road NEWINGTON, CT, US, 06111
REFERENCE	799001.7680
SHIPPER REFERENCE	799001.7680
SHIP DATE	Thu 8/25/2022 05:43 PM
DELIVERED TO	Residence
PACKAGING TYPE	FedEx Envelope
ORIGIN	WESTBOROUGH, MA, US, 01581
DESTINATION	NEWINGTON, CT, US, 06111
SPECIAL HANDLING	Deliver Weekday Residential Delivery
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	0.50 LB
SERVICE TYPE	FedEx Priority Overnight

Date: **April 26, 2022**

MORRISON HERSHFIELD

Morrison Hershfield
1455 Lincoln Parkway. Suite 500
Atlanta, GA 30346
(770) 379-8500

Subject:	**Structural Analysis Report**	
Carrier Designation:	***T-Mobile* Co-Locate**	
	Site Number:	CT11161D
	Site Name:	CT161/Jn of Albany_1
Crown Castle Designation:	**BU Number:**	806369
	Site Name:	HRT 094 943225
	JDE Job Number:	709263
	Work Order Number:	2103827
	Order Number:	608638 Rev. 0
Engineering Firm Designation:	**Morrison Hershfield Project Number:** CN9-394R3 / 2200039	
Site Data:	**439-455 Homestead Ave, Hartford, Hartford County, CT 06105** **Latitude *41° 47' 1.61"*, Longitude *-72° 42' 13.66"*** **140 Foot – Valmont Monopole Tower**	

Morrison Hershfield is 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 – 46.2%**

This analysis utilizes an ultimate 3-second gust wind speed of 117 mph as required by the 2018 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Respectfully submitted by:

G. Lance Cooke, P.E. (CT License No. PEN.0028133)
Senior Engineer

Digitally signed by G. Lance Cooke
Date: 2022.04.26 11:28:05-07'00'

TABLE OF CONTENTS

1) INTRODUCTION

This tower is a 140 ft valmont monopole tower mapped by Tower Engineering Professionals, Inc., in July of 2008

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	117 mph
Exposure Category:	B
Topographic Factor:	1
Ice Thickness:	1.5 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)
126.0	128.0	3	commscope	VV-65A-R1_TMO w/ Mount Pipe	3 2	1-5/8 1-3/8
		3	ericsson	AIR 6419 B41_TMO w/ Mount Pipe		
		3	rfs/celwave	APXVAARR24_43-U-NA20 w/ Mount Pipe		
		3	ericsson	RADIO 4449 B71 B85A_T-MOBILE		
		3	ericsson	RADIO 4460 B2/B25 B66_TMO		
	126.0	1	Site Pro 1	Platform Reinforcement Kit [#PRK-1245]		
		1	-	Platform Mount [LP 713-1]		

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)
140.0	142.0	2	raycap	RRFDC-3315-PF-48	8	1-5/8
	140.0	3	amphenol	BXA-80063-4BF-EDIN-X w/ Mount Pipe		
		3	commscope	NHH-65B-R2B		
		3	commscope	NHHSS-65B-R2B		
		3	samsung telecommunications	MT6407-77A w/ Mount Pipe		
		3	samsung telecommunications	CBRS RT4401-48A		
		3	samsung telecommunications	RF4439D-25A		
		6	samsung telecommunications	RF4440D-13A		
		3	-	Side-By-Side Mounting Kit [#BSAMNT-SBS-1-2]		
		1	-	Platform Mount (LP 101-1)		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
117.0	120.0	3	ericsson	RRUS 8843 B2/B66A_CCIV2	6 6 2 4	1-5/8 7/8 3/8 2C
		3	raycap	DC6-48-60-18-8F		
	117.0	2	cci antennas	DMP65R-BU6D w/ Mount Pipe		
		1	cci antennas	DMP65R-BU8D w/ Mount Pipe		
		2	cci antennas	TPA65R-BU6D w/ Mount Pipe		
		1	cci antennas	TPA65R-BU8D w/ Mount Pipe		
		3	ericsson	AIR 6419 B77G w/ Mount Pipe		
		3	ericsson	AIR 6449 N77 w/ Mount Pipe		
		3	ericsson	RADIO 4478 B14		
		3	ericsson	RRUS-32 B30		
		3	ericsson	RRUS 4449 B5/B12		
		1	-	Miscellaneous [NA 507-1]		
		1	-	Platform Mount [LP 712-1]		
104.0	104.0	3	alcatel lucent	800MHz 2X50W RRH W/FILTER	-	-
		3	alcatel lucent	PCS 1900MHz 4x45W-65MHz		
		1	-	Pipe Mount [PM 601-3]		
103.0	105.0	3	ericsson	AIR6449 B41_T-MOBILE w/ Mount Pipe	3	1-5/8
		3	rfs/celwave	APXVAALL24_43-U-NA20_TMO w/ Mount Pipe		
		3	ericsson	RADIO 4460 B2/B25 B66_TMO		
		3	ericsson	Radio 4480_TMOV2		
	103.0	1	-	Platform Mount [LP 713-1]		
93.0	93.0	3	jma wireless	MX08FRO665-21 w/ Mount Pipe	1	1-1/2
		3	fujitsu	TA08025-B604		
		3	fujitsu	TA08025-B605		
		1	raycap	RDIDC-9181-PF-48		
		1	tower mounts	Commscope MC-PK8-DSH		
74.0	80.0	1	antel	BCD-87010	1	7/8
	74.0	1	-	Side Arm Mount [SO 702-1]		
50.0	52.0	1	lucent	KS24019-L112A	1	7/8
	50.0	1	-	Side Arm Mount [SO 701-1]		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
4-GEOTECHNICAL REPORTS	2294838	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	2294380	CCISITES
4-TOWER MANUFACTURER DRAWINGS	2294379	CCISITES

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) 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. Morrison Hershfield 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	140 - 86.83	Pole	TP39.223x26.216x0.3125	1	-27.94	2319.28	32.9	Pass
L2	86.83 - 38	Pole	TP50.56x37.2109x0.4063	2	-43.02	3892.16	45.1	Pass
L3	38 - 0	Pole	TP59.05x48.0329x0.5	3	-63.88	5790.26	43.4	Pass
							Summary	
						Pole (L2)	45.1	Pass
						Rating =	45.1	Pass

Table 5 - Tower Component Stresses vs. Capacity – LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	46.2	Pass
1	Base Plate		15.1	Pass
1	Base Foundation (Structure)	0	31.8	Pass
1	Base Foundation (Soil Interaction)		42.6	Pass

Structure Rating (max from all components) =	46.2%*

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.

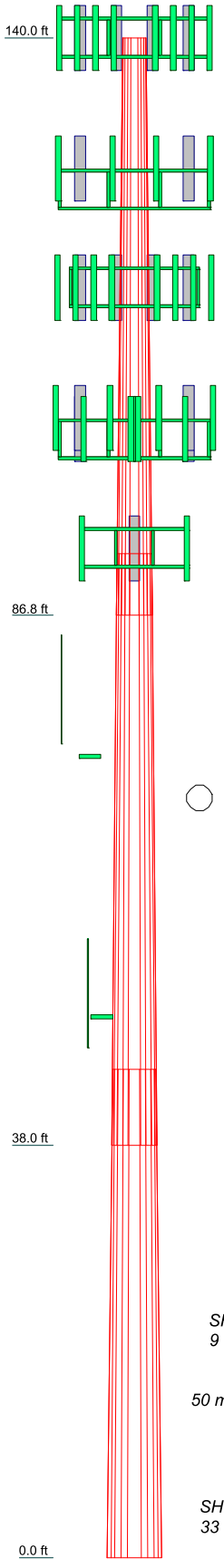
4.1) Recommendations

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

Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (K)
1	53.17	12	0.3125	5.67	26.2160	39.2230		5.9
2	54.50	12	0.4063	7.00	37.2109	50.5600	A572-65	10.5
3	45.00	12	0.5000		48.0329	59.0500		13.1
								29.5



ALL REACTIONS ARE FACTORED

AXIAL 105 K

SHEAR 9 K

MOMENT 879 kip-ft

TORQUE 0 kip-ft
50 mph WIND - 1.5000 in ICE

AXIAL 64 K

SHEAR 33 K

MOMENT 3214 kip-ft

TORQUE 1 kip-ft
REACTIONS - 117 mph WIND

MATERIAL STRENGTH

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

TOWER DESIGN NOTES

1. Tower is located in Hartford County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-H Standard.
3. Tower designed for a 117 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.50 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 0.00 ft
8. TOWER RATING: 45.1%

Morrison Hershfield
Consulting Engineers
1455 Lincoln Parkway. Suite 500
Atlanta, GA 30346
Phone: (770) 379-8500
FAX: (770) 379-8501

Job: CN9-394R3 / 2200039			
Project: 806369 / HRT 094 943225			
Client: Crown Castle USA	Drawn by: AP	App'd:	
Code: TIA-222-H	Date: 04/26/22	Scale: NTS	
Path: C:\Users\Apeeta\Desktop\Old works\CN9-394R3 SA\Analysis\CN9-394R3 BU_806369 WO_2103827.eri		Dwg No. E-1	

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 Hartford County, Connecticut.
Tower base elevation above sea level: 60.00 ft.
Basic wind speed of 117 mph.
Risk Category II.
Exposure Category B.
Simplified Topographic Factor Procedure for wind speed-up calculations is used.
Topographic Category: 1.
Crest Height: 0.00 ft.
Nominal ice thickness of 1.5000 in.
Ice thickness is considered to increase with height.
Ice density of 56 pcf.
A wind speed of 50 mph is used in combination with ice.
Temperature drop of 50 °F.
Deflections calculated using a wind speed of 60 mph.
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

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

Tapered Pole Section Geometry

Section	*Elevation*	*Section Length*	*Splice Length*	*Number of Sides*	*Top Diameter*	*Bottom Diameter*	*Wall Thickness*	*Bend Radius*	*Pole Grade*
	ft	*ft*	*ft*		*in*	*in*	*in*	*in*	
L1	140.00-86.83	53.17	5.67	12	26.2160	39.2230	0.3125	1.2500	A572-65 (65 ksi)
L2	86.83-38.00	54.50	7.00	12	37.2109	50.5600	0.4063	1.6250	A572-65 (65 ksi)
L3	38.00-0.00	45.00		12	48.0329	59.0500	0.5000	2.0000	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	It/Q in^2	w in	w/t
L1	27.0306	26.0654	2232.3752	9.2735	13.5799	164.3883	4523.3974	12.8286	6.1884	19.803
	40.4964	39.1537	7566.4519	13.9300	20.3175	372.4103	15331.6830	19.2703	9.6743	30.958
L2	39.8181	48.1451	8324.2452	13.1761	19.2753	431.8614	16867.1776	23.6956	8.8838	21.868
	52.2003	65.6074	21064.2222	17.9550	26.1901	804.2825	42681.8251	32.2900	12.4613	30.674
L3	51.3252	76.5280	22069.6751	17.0168	24.8811	887.0069	44719.1451	37.6648	11.5328	23.066
	60.9567	94.2655	41247.0150	20.9609	30.5879	1348.4749	83577.6350	46.3946	14.4854	28.971

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 140.00-86.83				1	1	1			
L2 86.83-38.00				1	1	1			
L3 38.00-0.00				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 plf
******										
Climbing Pegs	A	No	Surface Ar (CaAa)	140.00 - 0.00	1	1	-0.050 0.050	0.7050		1.80
Safety Line 3/8"	A	No	Surface Ar (CaAa)	140.00 - 0.00	1	1	0.000 0.000	0.3750		0.22
***										
HCS 6X12 4AWG(1-5/8)	C	No	Surface Ar (CaAa)	126.00 - 0.00	3	3	0.400 0.500	1.6600		2.40
******										
***										
HB158-21U6S24-xxM_TMO(1-5/8)	A	No	Surface Ar (CaAa)	103.00 - 0.00	3	2	-0.130 -0.100	1.9960		2.50
******										
***										
CU12PSM9P6XXX(1-1/2)	B	No	Surface Ar (CaAa)	93.00 - 0.00	1	1	0.000 0.000	1.6000		2.35
******										
LDF5-50A(7/8)	B	No	Surface Ar (CaAa)	74.00 - 0.00	1	1	-0.100 -0.100	1.0900		0.33
******										
LDF5-50A(7/8)	B	No	Surface Ar (CaAa)	50.00 - 0.00	1	1	-0.150 -0.100	1.0900		0.33
******										

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight plf
******									
LDF7-50A(1-5/8)	B	No	No	Inside Pole	140.00 - 0.00	6	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
							2" Ice	0.00	0.82
HB158-1-08U8-S8J18(1-5/8)	B	No	No	Inside Pole	140.00 - 0.00	1	No Ice	0.00	1.30
							1/2" Ice	0.00	1.30
							1" Ice	0.00	1.30
							2" Ice	0.00	1.30
***									
HB158-21U6S12-XXXM-01(1-5/8)	B	No	No	Inside Pole	140.00 - 0.00	1	No Ice	0.00	1.90
							1/2" Ice	0.00	1.90
							1" Ice	0.00	1.90
							2" Ice	0.00	1.90
******									
HCS 6X12 6AWG(1-3/8)	A	No	No	Inside Pole	126.00 - 0.00	2	No Ice	0.00	1.70
							1/2" Ice	0.00	1.70
							1" Ice	0.00	1.70
							2" Ice	0.00	1.70
******									
LDF7-50A(1-5/8)	C	No	No	Inside Pole	117.00 - 0.00	6	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
							2" Ice	0.00	0.82
FB-L98B-034-XXX(3/8)	C	No	No	Inside Pole	117.00 - 0.00	1	No Ice	0.00	0.06
							1/2" Ice	0.00	0.06
							1" Ice	0.00	0.06
							2" Ice	0.00	0.06
FB-L98B-034-XXXXXX(3/8)	C	No	No	Inside Pole	117.00 - 0.00	1	No Ice	0.00	0.05
							1/2" Ice	0.00	0.05
							1" Ice	0.00	0.05
							2" Ice	0.00	0.05
2" Conduit	C	No	No	Inside Pole	117.00 - 0.00	3	No Ice	0.00	2.80
							1/2" Ice	0.00	2.80
							1" Ice	0.00	2.80
							2" Ice	0.00	2.80
***									
PWRT-606-S(7/8)	C	No	No	Inside Pole	117.00 - 0.00	6	No Ice	0.00	0.89
							1/2" Ice	0.00	0.89
							1" Ice	0.00	0.89
							2" Ice	0.00	0.89
2" Conduit	C	No	No	Inside Pole	117.00 - 0.00	1	No Ice	0.00	2.80
							1/2" Ice	0.00	2.80
							1" Ice	0.00	2.80
							2" Ice	0.00	2.80
******									

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	140.00-86.83	A	0.000	0.000	12.197	0.000	0.36
		B	0.000	0.000	0.987	0.000	0.45
		C	0.000	0.000	19.507	0.000	0.93
L2	86.83-38.00	A	0.000	0.000	24.767	0.000	0.63
		B	0.000	0.000	13.045	0.000	0.53
		C	0.000	0.000	24.317	0.000	1.40
L3	38.00-0.00	A	0.000	0.000	19.274	0.000	0.49
		B	0.000	0.000	14.364	0.000	0.42
		C	0.000	0.000	18.924	0.000	1.09

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_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	140.00-86.83	A	1.441	0.000	0.000	50.280	0.000	0.91
		B		0.000	0.000	2.765	0.000	0.48
		C		0.000	0.000	38.493	0.000	1.31
L2	86.83-38.00	A	1.358	0.000	0.000	75.371	0.000	1.49
		B		0.000	0.000	40.948	0.000	1.00
		C		0.000	0.000	47.986	0.000	1.88
L3	38.00-0.00	A	1.203	0.000	0.000	56.609	0.000	1.11
		B		0.000	0.000	45.327	0.000	0.92
		C		0.000	0.000	36.556	0.000	1.43

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
L1	140.00-86.83	-2.7361	0.6411	-4.1235	-0.0061
L2	86.83-38.00	-3.1847	-0.1525	-3.8194	-1.2450
L3	38.00-0.00	-2.8812	-0.5034	-3.2944	-1.9276

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	2	Climbing Pegs	86.83 - 140.00	1.0000	1.0000
L1	3	Safety Line 3/8"	86.83 - 140.00	1.0000	1.0000
L1	19	HCS 6X12 4AWG(1-5/8)	86.83 - 126.00	1.0000	1.0000
L1	35	HB158-21U6S24-xxM_TMO(1-5/8)	86.83 - 103.00	1.0000	1.0000
L1	39	CU12PSM9P6XXX(1-1/2)	86.83 - 93.00	1.0000	1.0000
L2	2	Climbing Pegs	38.00 - 86.83	1.0000	1.0000
L2	3	Safety Line 3/8"	38.00 - 86.83	1.0000	1.0000
L2	19	HCS 6X12 4AWG(1-5/8)	38.00 - 86.83	1.0000	1.0000
L2	35	HB158-21U6S24-xxM_TMO(1-5/8)	38.00 - 86.83	1.0000	1.0000
L2	39	CU12PSM9P6XXX(1-1/2)	38.00 - 86.83	1.0000	1.0000
L2	41	LDF5-50A(7/8)	38.00 - 74.00	1.0000	1.0000
L2	43	LDF5-50A(7/8)	38.00 - 50.00	1.0000	1.0000
L3	2	Climbing Pegs	0.00 - 38.00	1.0000	1.0000
L3	3	Safety Line 3/8"	0.00 - 38.00	1.0000	1.0000
L3	19	HCS 6X12 4AWG(1-5/8)	0.00 - 38.00	1.0000	1.0000
L3	35	HB158-21U6S24-xxM_TMO(1-5/8)	0.00 - 38.00	1.0000	1.0000
L3	39	CU12PSM9P6XXX(1-1/2)	0.00 - 38.00	1.0000	1.0000
L3	41	LDF5-50A(7/8)	0.00 - 38.00	1.0000	1.0000
L3	43	LDF5-50A(7/8)	0.00 - 38.00	1.0000	1.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
******									
BXA-80063-4BF-EDIN-X w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.62 4.99 5.36 6.13	3.47 4.04 4.63 5.83	0.03 0.07 0.12 0.23
BXA-80063-4BF-EDIN-X w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.62 4.99 5.36 6.13	3.47 4.04 4.63 5.83	0.03 0.07 0.12 0.23
BXA-80063-4BF-EDIN-X w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.62 4.99 5.36 6.13	3.47 4.04 4.63 5.83	0.03 0.07 0.12 0.23
RRFDC-3315-PF-48	B	From Leg	4.00 0.00 2.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.79 4.04 4.30 4.84	2.51 2.73 2.95 3.42	0.03 0.06 0.10 0.18
6' x 2" Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.92 2.29 3.06	1.43 1.92 2.29 3.06	0.02 0.03 0.05 0.09
6' x 2" Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.92 2.29 3.06	1.43 1.92 2.29 3.06	0.02 0.03 0.05 0.09
6' x 2" Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.92 2.29 3.06	1.43 1.92 2.29 3.06	0.02 0.03 0.05 0.09
Platform Mount (LP 101-1)	C	None		0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	35.83 40.98 46.57 60.46	35.83 40.98 46.57 60.46	1.50 2.32 3.26 5.51
***									
NHH-65B-R2B	A	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.16 4.56 4.98 5.84	2.49 2.88 3.27 4.08	0.04 0.09 0.15 0.28
NHH-65B-R2B	B	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.16 4.56 4.98 5.84	2.49 2.88 3.27 4.08	0.04 0.09 0.15 0.28
NHH-65B-R2B	C	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.16 4.56 4.98 5.84	2.49 2.88 3.27 4.08	0.04 0.09 0.15 0.28
NHHSS-65B-R2B	A	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.97 4.36 4.76 5.58	2.38 2.75 3.12 3.90	0.07 0.12 0.17 0.30

Description	*Face or Leg*	*Offset Type*	*Offsets: Horz Lateral Vert* *ft* *ft* *ft*	*Azimuth Adjustment* *°*	*Placement* *ft*		*C_AA_A Front* *ft^2*	*C_AA_A Side* *ft^2*	*Weight* *K*
NHHSS-65B-R2B	B	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.97 4.36 4.76 5.58	2.38 2.75 3.12 3.90	0.07 0.12 0.17 0.30
NHHSS-65B-R2B	C	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.97 4.36 4.76 5.58	2.38 2.75 3.12 3.90	0.07 0.12 0.17 0.30
MT6407-77A w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.91 5.26 5.61 6.36	2.68 3.14 3.62 4.63	0.10 0.14 0.18 0.29
MT6407-77A w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.91 5.26 5.61 6.36	2.68 3.14 3.62 4.63	0.10 0.14 0.18 0.29
MT6407-77A w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.91 5.26 5.61 6.36	2.68 3.14 3.62 4.63	0.10 0.14 0.18 0.29
CBRS RT4401-48A	A	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.99 1.12 1.26 1.55	0.50 0.60 0.70 0.94	0.02 0.03 0.04 0.06
CBRS RT4401-48A	B	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.99 1.12 1.26 1.55	0.50 0.60 0.70 0.94	0.02 0.03 0.04 0.06
CBRS RT4401-48A	C	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.99 1.12 1.26 1.55	0.50 0.60 0.70 0.94	0.02 0.03 0.04 0.06
RF4439D-25A	A	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.87 2.03 2.21 2.59	1.25 1.39 1.54 1.87	0.07 0.09 0.11 0.17
RF4439D-25A	B	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.87 2.03 2.21 2.59	1.25 1.39 1.54 1.87	0.07 0.09 0.11 0.17
RF4439D-25A	C	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.87 2.03 2.21 2.59	1.25 1.39 1.54 1.87	0.07 0.09 0.11 0.17
(2) RF4440D-13A	A	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.87 2.03 2.21 2.59	1.13 1.27 1.41 1.72	0.07 0.09 0.11 0.16
(2) RF4440D-13A	B	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.87 2.03 2.21 2.59	1.13 1.27 1.41 1.72	0.07 0.09 0.11 0.16

Description	*Face or Leg*	*Offset Type*	*Offsets: Horz Lateral Vert ft ft ft*	*Azimuth Adjustment ° *	*Placement ft*		*C_AA_A Front ft^2*	*C_AA_A Side ft^2*	*Weight K*
(2) RF4440D-13A	C	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.87 2.03 2.21 2.59	1.13 1.27 1.41 1.72	0.07 0.09 0.11 0.16
RRFDC-3315-PF-48	C	From Leg	4.00 0.00 2.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.79 4.04 4.30 4.84	2.51 2.73 2.95 3.42	0.03 0.06 0.10 0.18
Side-By-Side Mounting Kit [#BSAMNT-SBS-1-2]	A	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.38 3.40 4.45 5.91	2.38 3.40 4.45 5.91	0.04 0.05 0.08 0.15
Side-By-Side Mounting Kit [#BSAMNT-SBS-1-2]	B	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.38 3.40 4.45 5.91	2.38 3.40 4.45 5.91	0.04 0.05 0.08 0.15
Side-By-Side Mounting Kit [#BSAMNT-SBS-1-2]	C	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.38 3.40 4.45 5.91	2.38 3.40 4.45 5.91	0.04 0.05 0.08 0.15
******									
APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	14.69 15.46 16.23 17.82	6.87 7.55 8.25 9.67	0.19 0.31 0.46 0.79
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	14.69 15.46 16.23 17.82	6.87 7.55 8.25 9.67	0.19 0.31 0.46 0.79
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	14.69 15.46 16.23 17.82	6.87 7.55 8.25 9.67	0.19 0.31 0.46 0.79
RADIO 4449 B71 B85A_T-MOBILE	A	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.97 2.15 2.33 2.72	1.59 1.75 1.92 2.28	0.07 0.09 0.12 0.17
RADIO 4449 B71 B85A_T-MOBILE	B	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.97 2.15 2.33 2.72	1.59 1.75 1.92 2.28	0.07 0.09 0.12 0.17
RADIO 4449 B71 B85A_T-MOBILE	C	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.97 2.15 2.33 2.72	1.59 1.75 1.92 2.28	0.07 0.09 0.12 0.17
(2) 12' Hor x 2.5" x 2.5" Angle Mount	A	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.00 6.23 7.48 9.62	0.02 0.07 0.14 0.32	0.07 0.10 0.14 0.24
(2) 12' Hor x 2.5" x 2.5" Angle Mount	B	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice	5.00 6.23 7.48 9.62	0.02 0.07 0.14 0.32	0.07 0.10 0.14 0.24

Description	*Face or Leg*	*Offset Type*	*Offsets: Horz Lateral Vert* *ft* *ft* *ft*	*Azimuth Adjustment* *°*	*Placement* *ft*		*C_AA_A Front* *ft^2*	*C_AA_A Side* *ft^2*	*Weight* *K*
						2" Ice			
(2) 12' Hor x 2.5" x 2.5" Angle Mount	C	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.00 6.23 7.48 9.62	0.02 0.07 0.14 0.32	0.07 0.10 0.14 0.24
6' x 2" Mount Pipe	A	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.92 2.29 3.06	1.43 1.92 2.29 3.06	0.02 0.03 0.05 0.09
6' x 2" Mount Pipe	B	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.92 2.29 3.06	1.43 1.92 2.29 3.06	0.02 0.03 0.05 0.09
6' x 2" Mount Pipe	C	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.92 2.29 3.06	1.43 1.92 2.29 3.06	0.02 0.03 0.05 0.09
Platform Mount [LP 713-1]	C	None		0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	32.89 35.76 38.76 45.26	32.89 35.76 38.76 45.26	1.51 2.23 3.03 4.86
***									
VV-65A-R1_TMO w/ Mount Pipe	A	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.46 4.91 5.36 6.32	2.69 3.10 3.52 4.41	0.05 0.10 0.15 0.28
VV-65A-R1_TMO w/ Mount Pipe	B	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.46 4.91 5.36 6.32	2.69 3.10 3.52 4.41	0.05 0.10 0.15 0.28
VV-65A-R1_TMO w/ Mount Pipe	C	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.46 4.91 5.36 6.32	2.69 3.10 3.52 4.41	0.05 0.10 0.15 0.28
AIR 6419 B41_TMO w/ Mount Pipe	A	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	6.58 7.06 7.57 8.62	3.50 3.90 4.32 5.20	0.11 0.16 0.22 0.36
AIR 6419 B41_TMO w/ Mount Pipe	B	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	6.58 7.06 7.57 8.62	3.50 3.90 4.32 5.20	0.11 0.16 0.22 0.36
AIR 6419 B41_TMO w/ Mount Pipe	C	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	6.58 7.06 7.57 8.62	3.50 3.90 4.32 5.20	0.11 0.16 0.22 0.36
RADIO 4460 B2/B25 B66_TMO	A	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.14 2.32 2.51 2.91	1.69 1.85 2.02 2.39	0.11 0.13 0.16 0.22
RADIO 4460 B2/B25 B66_TMO	B	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice 1/2" Ice	2.14 2.32 2.51	1.69 1.85 2.02	0.11 0.13 0.16

Description	*Face or Leg*	*Offset Type*	*Offsets: Horz Lateral Vert* ft ft ft	*Azimuth Adjustment* °	*Placement* ft		*C_AA_A Front* ft^2	*C_AA_A Side* ft^2	*Weight* K
						1" Ice	2.91	2.39	0.22
						2" Ice			
RADIO 4460 B2/B25 B66_TMO	C	From Leg	4.00 0.00 2.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.14 2.32 2.51 2.91	1.69 1.85 2.02 2.39	0.11 0.13 0.16 0.22
Platform Reinforcement Kit [#PRK-1245]	C	None		0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	11.84 16.96 22.08 32.32	11.84 16.96 22.08 32.32	0.47 0.61 0.75 1.03
******									
DMP65R-BU8D w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	15.89 16.81 17.76 19.70	7.89 8.74 9.60 11.37	0.14 0.25 0.38 0.68
DMP65R-BU6D w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	11.96 12.70 13.46 15.02	5.97 6.63 7.30 8.69	0.11 0.20 0.30 0.53
DMP65R-BU6D w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	11.96 12.70 13.46 15.02	5.97 6.63 7.30 8.69	0.11 0.20 0.30 0.53
DC6-48-60-18-8F	A	From Leg	1.00 0.00 3.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.92 1.46 1.64 2.04	0.92 1.46 1.64 2.04	0.02 0.04 0.06 0.11
DC6-48-60-18-8F	B	From Leg	1.00 0.00 3.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.92 1.46 1.64 2.04	0.92 1.46 1.64 2.04	0.02 0.04 0.06 0.11
DC6-48-60-18-8F	C	From Leg	1.00 0.00 3.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.92 1.46 1.64 2.04	0.92 1.46 1.64 2.04	0.02 0.04 0.06 0.11
RRUS-32 B30	A	From Leg	4.00 0.00 0.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.31 3.56 3.81 4.33	2.42 2.64 2.86 3.32	0.08 0.10 0.14 0.21
RRUS-32 B30	B	From Leg	4.00 0.00 0.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.31 3.56 3.81 4.33	2.42 2.64 2.86 3.32	0.08 0.10 0.14 0.21
RRUS-32 B30	C	From Leg	4.00 0.00 0.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.31 3.56 3.81 4.33	2.42 2.64 2.86 3.32	0.08 0.10 0.14 0.21
RRUS 4449 B5/B12	A	From Leg	4.00 0.00 0.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.97 2.14 2.33 2.72	1.41 1.56 1.73 2.07	0.07 0.09 0.11 0.16
RRUS 4449 B5/B12	B	From Leg	4.00 0.00	0.0000	117.00	No Ice 1/2"	1.97 2.14	1.41 1.56	0.07 0.09

Description	*Face or Leg*	*Offset Type*	*Offsets: Horz Lateral Vert ft ft ft*	*Azimuth Adjustment ° *	*Placement ft*		*C_AA_A Front ft^2*	*C_AA_A Side ft^2*	*Weight K*
			0.00			Ice	2.33	1.73	0.11
						1" Ice	2.72	2.07	0.16
						2" Ice			
RRUS 4449 B5/B12	C	From Leg	4.00	0.0000	117.00	No Ice	1.97	1.41	0.07
			0.00			1/2"	2.14	1.56	0.09
			0.00			Ice	2.33	1.73	0.11
						1" Ice	2.72	2.07	0.16
						2" Ice			
RRUS 8843 B2/B66A_CCIV2	A	From Leg	4.00	0.0000	117.00	No Ice	1.98	1.70	0.08
			0.00			1/2"	2.16	1.86	0.10
			3.00			Ice	2.34	2.04	0.12
						1" Ice	2.73	2.41	0.18
						2" Ice			
RRUS 8843 B2/B66A_CCIV2	B	From Leg	4.00	0.0000	117.00	No Ice	1.98	1.70	0.08
			0.00			1/2"	2.16	1.86	0.10
			3.00			Ice	2.34	2.04	0.12
						1" Ice	2.73	2.41	0.18
						2" Ice			
RRUS 8843 B2/B66A_CCIV2	C	From Leg	4.00	0.0000	117.00	No Ice	1.98	1.70	0.08
			0.00			1/2"	2.16	1.86	0.10
			3.00			Ice	2.34	2.04	0.12
						1" Ice	2.73	2.41	0.18
						2" Ice			
Miscellaneous [NA 507-1]	C	None		0.0000	117.00	No Ice	4.56	4.56	0.25
						1/2"	6.39	6.39	0.31
						Ice	8.18	8.18	0.40
						1" Ice	11.66	11.66	0.66
						2" Ice			
Platform Mount [LP 712-1]	C	None		0.0000	117.00	No Ice	24.56	24.56	1.34
						1/2"	27.92	27.92	1.91
						Ice	31.27	31.27	2.55
						1" Ice	37.98	37.98	3.97
						2" Ice			
***									
AIR 6419 B77G w/ Mount Pipe	A	From Leg	4.00	0.0000	117.00	No Ice	4.32	2.49	0.08
			0.00			1/2"	4.74	2.84	0.11
			0.00			Ice	5.17	3.21	0.15
						1" Ice	6.09	4.00	0.24
						2" Ice			
AIR 6419 B77G w/ Mount Pipe	B	From Leg	4.00	0.0000	117.00	No Ice	4.32	2.49	0.08
			0.00			1/2"	4.74	2.84	0.11
			0.00			Ice	5.17	3.21	0.15
						1" Ice	6.09	4.00	0.24
						2" Ice			
AIR 6419 B77G w/ Mount Pipe	C	From Leg	4.00	0.0000	117.00	No Ice	4.32	2.49	0.08
			0.00			1/2"	4.74	2.84	0.11
			0.00			Ice	5.17	3.21	0.15
						1" Ice	6.09	4.00	0.24
						2" Ice			
AIR 6449 N77 w/ Mount Pipe	A	From Leg	4.00	0.0000	117.00	No Ice	3.65	2.72	0.11
			0.00			1/2"	3.99	3.03	0.15
			0.00			Ice	4.35	3.36	0.20
						1" Ice	5.11	4.05	0.31
						2" Ice			
AIR 6449 N77 w/ Mount Pipe	B	From Leg	4.00	0.0000	117.00	No Ice	3.65	2.72	0.11
			0.00			1/2"	3.99	3.03	0.15
			0.00			Ice	4.35	3.36	0.20
						1" Ice	5.11	4.05	0.31
						2" Ice			
AIR 6449 N77 w/ Mount Pipe	C	From Leg	4.00	0.0000	117.00	No Ice	3.65	2.72	0.11
			0.00			1/2"	3.99	3.03	0.15
			0.00			Ice	4.35	3.36	0.20
						1" Ice	5.11	4.05	0.31
						2" Ice			
TPA65R-BU8D w/ Mount	B	From Leg	4.00	0.0000	117.00	No Ice	15.94	7.91	0.12

Description	*Face or Leg*	*Offset Type*	*Offsets: Horz Lateral Vert* ft ft ft	*Azimuth Adjustment* °	*Placement* ft		C_AA_A *Front* ft^2	C_AA_A *Side* ft^2	*Weight* K
Pipe			0.00 0.00			1/2" Ice 1" Ice 2" Ice	16.87 17.82 19.76	8.76 9.63 11.40	0.24 0.36 0.67
TPA65R-BU6D w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	12.25 13.00 13.76 15.34	6.05 6.71 7.39 8.79	0.10 0.19 0.28 0.52
TPA65R-BU6D w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	12.25 13.00 13.76 15.34	6.05 6.71 7.39 8.79	0.10 0.19 0.28 0.52
RADIO 4478 B14	A	From Leg	4.00 0.00 0.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.02 2.20 2.39 2.78	1.25 1.40 1.55 1.89	0.06 0.08 0.10 0.15
RADIO 4478 B14	B	From Leg	4.00 0.00 0.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.02 2.20 2.39 2.78	1.25 1.40 1.55 1.89	0.06 0.08 0.10 0.15
RADIO 4478 B14	C	From Leg	4.00 0.00 0.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.02 2.20 2.39 2.78	1.25 1.40 1.55 1.89	0.06 0.08 0.10 0.15
******									
PCS 1900MHz 4x45W-65MHz	A	From Leg	1.00 0.00 0.00	0.0000	104.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.32 2.53 2.74 3.19	2.24 2.44 2.65 3.09	0.06 0.08 0.11 0.17
PCS 1900MHz 4x45W-65MHz	B	From Leg	1.00 0.00 0.00	0.0000	104.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.32 2.53 2.74 3.19	2.24 2.44 2.65 3.09	0.06 0.08 0.11 0.17
PCS 1900MHz 4x45W-65MHz	C	From Leg	1.00 0.00 0.00	0.0000	104.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.32 2.53 2.74 3.19	2.24 2.44 2.65 3.09	0.06 0.08 0.11 0.17
800MHz 2X50W RRH W/FILTER	A	From Leg	1.00 0.00 0.00	0.0000	104.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.06 2.24 2.43 2.83	1.93 2.11 2.29 2.68	0.06 0.09 0.11 0.17
800MHz 2X50W RRH W/FILTER	B	From Leg	1.00 0.00 0.00	0.0000	104.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.06 2.24 2.43 2.83	1.93 2.11 2.29 2.68	0.06 0.09 0.11 0.17
800MHz 2X50W RRH W/FILTER	C	From Leg	1.00 0.00 0.00	0.0000	104.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.06 2.24 2.43 2.83	1.93 2.11 2.29 2.68	0.06 0.09 0.11 0.17
Pipe Mount [PM 601-3]	C	None		0.0000	104.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.17 3.79 4.42 5.76	3.17 3.79 4.42 5.76	0.20 0.23 0.28 0.40

Description	*Face or Leg*	*Offset Type*	*Offsets: Horz Lateral Vert* ft ft ft	*Azimuth Adjustment* °	*Placement* ft		C_AA_A *Front* ft^2	C_AA_A *Side* ft^2	*Weight* K
******									
6' x 2" Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	103.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.92 2.29 3.06	1.43 1.92 2.29 3.06	0.02 0.03 0.05 0.09
6' x 2" Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	103.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.92 2.29 3.06	1.43 1.92 2.29 3.06	0.02 0.03 0.05 0.09
6' x 2" Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	103.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.92 2.29 3.06	1.43 1.92 2.29 3.06	0.02 0.03 0.05 0.09
Platform Mount [LP 713-1]	C	None		0.0000	103.00	No Ice 1/2" Ice 1" Ice 2" Ice	32.89 35.76 38.76 45.26	32.89 35.76 38.76 45.26	1.51 2.23 3.03 4.86
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AIR6449 B41_T-MOBILE w/ Mount Pipe	A	From Leg	4.00 0.00 2.00	0.0000	103.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.19 5.59 6.02 6.90	2.71 3.04 3.38 4.12	0.13 0.17 0.23 0.35
AIR6449 B41_T-MOBILE w/ Mount Pipe	B	From Leg	4.00 0.00 2.00	0.0000	103.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.19 5.59 6.02 6.90	2.71 3.04 3.38 4.12	0.13 0.17 0.23 0.35
AIR6449 B41_T-MOBILE w/ Mount Pipe	C	From Leg	4.00 0.00 2.00	0.0000	103.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.19 5.59 6.02 6.90	2.71 3.04 3.38 4.12	0.13 0.17 0.23 0.35
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	A	From Leg	4.00 0.00 2.00	0.0000	103.00	No Ice 1/2" Ice 1" Ice 2" Ice	14.69 15.46 16.23 17.82	6.87 7.55 8.25 9.67	0.18 0.31 0.45 0.78
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	B	From Leg	4.00 0.00 2.00	0.0000	103.00	No Ice 1/2" Ice 1" Ice 2" Ice	14.69 15.46 16.23 17.82	6.87 7.55 8.25 9.67	0.18 0.31 0.45 0.78
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	C	From Leg	4.00 0.00 2.00	0.0000	103.00	No Ice 1/2" Ice 1" Ice 2" Ice	14.69 15.46 16.23 17.82	6.87 7.55 8.25 9.67	0.18 0.31 0.45 0.78
Radio 4480_TMOV2	A	From Leg	4.00 0.00 2.00	0.0000	103.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.88 3.09 3.31 3.78	1.40 1.56 1.73 2.09	0.08 0.10 0.13 0.19
Radio 4480_TMOV2	B	From Leg	4.00 0.00 2.00	0.0000	103.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.88 3.09 3.31 3.78	1.40 1.56 1.73 2.09	0.08 0.10 0.13 0.19
Radio 4480_TMOV2	C	From Leg	4.00 0.00 2.00	0.0000	103.00	No Ice 1/2" Ice	2.88 3.09 3.31	1.40 1.56 1.73	0.08 0.10 0.13

Description	*Face or Leg*	*Offset Type*	*Offsets: Horz Lateral Vert* *ft* *ft* *ft*	*Azimuth Adjustment* *°*	*Placement* *ft*		C_AA_A *Front* *ft²*	C_AA_A *Side* *ft²*	*Weight* *K*
						1" Ice	3.78	2.09	0.19
						2" Ice			
RADIO 4460 B2/B25 B66_TMO	A	From Leg	4.00	0.0000	103.00	No Ice	2.14	1.69	0.11
			0.00			1/2"	2.32	1.85	0.13
			2.00			Ice	2.51	2.02	0.16
						1" Ice	2.91	2.39	0.22
						2" Ice			
RADIO 4460 B2/B25 B66_TMO	B	From Leg	4.00	0.0000	103.00	No Ice	2.14	1.69	0.11
			0.00			1/2"	2.32	1.85	0.13
			2.00			Ice	2.51	2.02	0.16
						1" Ice	2.91	2.39	0.22
						2" Ice			
RADIO 4460 B2/B25 B66_TMO	C	From Leg	4.00	0.0000	103.00	No Ice	2.14	1.69	0.11
			0.00			1/2"	2.32	1.85	0.13
			2.00			Ice	2.51	2.02	0.16
						1" Ice	2.91	2.39	0.22
						2" Ice			
******									
*******									
MX08FRO665-21 w/ Mount Pipe	A	From Leg	4.00	0.0000	93.00	No Ice	8.01	4.23	0.11
			0.00			1/2"	8.52	4.69	0.19
			0.00			Ice	9.04	5.16	0.29
						1" Ice	10.11	6.12	0.52
						2" Ice			
MX08FRO665-21 w/ Mount Pipe	B	From Leg	4.00	0.0000	93.00	No Ice	8.01	4.23	0.11
			0.00			1/2"	8.52	4.69	0.19
			0.00			Ice	9.04	5.16	0.29
						1" Ice	10.11	6.12	0.52
						2" Ice			
MX08FRO665-21 w/ Mount Pipe	C	From Leg	4.00	0.0000	93.00	No Ice	8.01	4.23	0.11
			0.00			1/2"	8.52	4.69	0.19
			0.00			Ice	9.04	5.16	0.29
						1" Ice	10.11	6.12	0.52
						2" Ice			
RDIDC-9181-PF-48	A	From Leg	4.00	0.0000	93.00	No Ice	2.01	1.17	0.02
			0.00			1/2"	2.19	1.31	0.04
			0.00			Ice	2.37	1.46	0.06
						1" Ice	2.76	1.78	0.11
						2" Ice			
TA08025-B604	A	From Leg	4.00	0.0000	93.00	No Ice	1.96	0.98	0.06
			0.00			1/2"	2.14	1.11	0.08
			0.00			Ice	2.32	1.25	0.10
						1" Ice	2.71	1.55	0.15
						2" Ice			
TA08025-B604	B	From Leg	4.00	0.0000	93.00	No Ice	1.96	0.98	0.06
			0.00			1/2"	2.14	1.11	0.08
			0.00			Ice	2.32	1.25	0.10
						1" Ice	2.71	1.55	0.15
						2" Ice			
TA08025-B604	C	From Leg	4.00	0.0000	93.00	No Ice	1.96	0.98	0.06
			0.00			1/2"	2.14	1.11	0.08
			0.00			Ice	2.32	1.25	0.10
						1" Ice	2.71	1.55	0.15
						2" Ice			
TA08025-B605	A	From Leg	4.00	0.0000	93.00	No Ice	1.96	1.13	0.08
			0.00			1/2"	2.14	1.27	0.09
			0.00			Ice	2.32	1.41	0.11
						1" Ice	2.71	1.72	0.16
						2" Ice			
TA08025-B605	B	From Leg	4.00	0.0000	93.00	No Ice	1.96	1.13	0.08
			0.00			1/2"	2.14	1.27	0.09
			0.00			Ice	2.32	1.41	0.11
						1" Ice	2.71	1.72	0.16
						2" Ice			
TA08025-B605	C	From Leg	4.00	0.0000	93.00	No Ice	1.96	1.13	0.08

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.00 0.00			1/2" Ice 1" Ice 2" Ice	2.14 2.32 2.71	1.27 1.41 1.72	0.09 0.11 0.16
(2) 8' x 2" Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	93.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.90 2.73 3.40 4.40	1.90 2.73 3.40 4.40	0.03 0.04 0.06 0.12
(2) 8' x 2" Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	93.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.90 2.73 3.40 4.40	1.90 2.73 3.40 4.40	0.03 0.04 0.06 0.12
(2) 8' x 2" Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	93.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.90 2.73 3.40 4.40	1.90 2.73 3.40 4.40	0.03 0.04 0.06 0.12
Commscope MC-PK8-DSH	C	None		0.0000	93.00	No Ice 1/2" Ice 1" Ice 2" Ice	34.24 62.95 91.66 149.08	34.24 62.95 91.66 149.08	1.75 2.10 2.45 3.15
*******									
BCD-87010	C	From Leg	6.00 0.00 6.00	0.0000	74.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.90 4.05 5.21 7.01	2.90 4.05 5.21 7.01	0.03 0.05 0.08 0.16
Side Arm Mount [SO 702-1]	C	From Leg	3.00 0.00 0.00	0.0000	74.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.62 0.74 0.89 1.25	1.49 2.07 2.54 3.55	0.03 0.04 0.06 0.12
******									
KS24019-L112A	C	From Leg	3.00 0.00 2.00	0.0000	50.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.14 0.20 0.26 0.41	0.14 0.20 0.26 0.41	0.01 0.01 0.01 0.02
Side Arm Mount [SO 701-1]	C	From Leg	1.50 0.00 0.00	0.0000	50.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.85 1.14 1.43 2.01	1.67 2.34 3.01 4.35	0.07 0.08 0.09 0.12
*******									

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

Comb. No.	Description
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

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	140 - 86.83	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-58.27	-0.18	-1.26
			Max. Mx	20	-27.94	608.48	0.77
			Max. My	14	-27.94	-1.14	-605.01
			Max. Vy	20	-23.39	608.48	0.77
			Max. Vx	14	23.31	-1.14	-605.01
			Max. Torque	6			-0.93
L2	86.83 - 38	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-78.87	2.64	-1.94
			Max. Mx	20	-43.03	1840.28	3.02
			Max. My	14	-43.03	-2.62	-1832.45
			Max. Vy	20	-28.33	1840.28	3.02
			Max. Vx	14	28.27	-2.62	-1832.45
			Max. Torque	22			1.25
L3	38 - 0	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-105.29	3.74	-1.47
			Max. Mx	20	-63.88	3210.85	6.09
			Max. My	14	-63.88	-5.05	-3199.82
			Max. Vy	20	-32.50	3210.85	6.09
			Max. Vx	14	32.44	-5.05	-3199.82
			Max. Torque	22			1.25

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	36	105.29	8.54	0.02
	Max. H_x	20	63.90	32.47	0.07
	Max. H_z	2	63.90	0.07	32.42
	Max. M_x	2	3197.66	0.07	32.42
	Max. M_z	8	3206.63	-32.47	-0.07
	Max. Torsion	22	1.25	28.16	16.27
	Min. Vert	5	47.92	-16.18	28.04
	Min. H_x	8	63.90	-32.47	-0.07
	Min. H_z	14	63.90	-0.07	-32.42
	Min. M_x	14	-3199.82	-0.07	-32.42
	Min. M_z	20	-3210.85	32.47	0.07
	Min. Torsion	10	-1.25	-28.16	-16.27

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	53.25	0.00	0.00	0.86	1.71	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	63.90	-0.07	-32.42	-3197.66	9.28	-0.47
0.9 Dead+1.0 Wind 0 deg - No Ice	47.92	-0.07	-32.42	-3173.32	8.69	-0.47
1.2 Dead+1.0 Wind 30 deg - No Ice	63.90	16.18	-28.04	-2765.53	-1596.06	0.18
0.9 Dead+1.0 Wind 30 deg - No Ice	47.92	16.18	-28.04	-2744.51	-1584.28	0.17
1.2 Dead+1.0 Wind 60 deg - No Ice	63.90	28.09	-16.15	-1592.09	-2773.17	0.78
0.9 Dead+1.0 Wind 60 deg - No Ice	47.92	28.09	-16.15	-1580.10	-2752.32	0.77
1.2 Dead+1.0 Wind 90 deg - No Ice	63.90	32.47	0.07	8.25	-3206.63	1.17
0.9 Dead+1.0 Wind 90 deg - No Ice	47.92	32.47	0.07	7.91	-3182.45	1.17
1.2 Dead+1.0 Wind 120 deg - No Ice	63.90	28.16	16.27	1606.65	-2780.33	1.25
0.9 Dead+1.0 Wind 120 deg - No Ice	47.92	28.16	16.27	1594.01	-2759.43	1.24
1.2 Dead+1.0 Wind 150 deg - No Ice	63.90	16.30	28.11	2774.85	-1608.47	0.99
0.9 Dead+1.0 Wind 150 deg - No Ice	47.92	16.30	28.11	2753.22	-1596.60	0.99
1.2 Dead+1.0 Wind 180 deg - No Ice	63.90	0.07	32.42	3199.82	-5.05	0.47
0.9 Dead+1.0 Wind 180 deg - No Ice	47.92	0.07	32.42	3174.92	-5.54	0.47
1.2 Dead+1.0 Wind 210 deg - No Ice	63.90	-16.18	28.04	2767.69	1600.29	-0.17
0.9 Dead+1.0 Wind 210 deg - No Ice	47.92	-16.18	28.04	2746.11	1587.43	-0.17
1.2 Dead+1.0 Wind 240 deg - No Ice	63.90	-28.09	16.15	1594.24	2777.39	-0.77
0.9 Dead+1.0 Wind 240 deg - No Ice	47.92	-28.09	16.15	1581.70	2755.46	-0.77

Load Combination	Vertical	$Shear_x$	$Shear_z$	Overturning Moment, M_x	Overturning Moment, M_z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
1.2 Dead+1.0 Wind 270 deg - No Ice	63.90	-32.47	-0.07	-6.09	3210.85	-1.17
0.9 Dead+1.0 Wind 270 deg - No Ice	47.92	-32.47	-0.07	-6.31	3185.59	-1.17
1.2 Dead+1.0 Wind 300 deg - No Ice	63.90	-28.16	-16.27	-1604.49	2784.55	-1.25
0.9 Dead+1.0 Wind 300 deg - No Ice	47.92	-28.16	-16.27	-1592.41	2762.57	-1.25
1.2 Dead+1.0 Wind 330 deg - No Ice	63.90	-16.30	-28.11	-2772.69	1612.69	-0.99
0.9 Dead+1.0 Wind 330 deg - No Ice	47.92	-16.30	-28.11	-2751.62	1599.74	-0.99
1.2 Dead+1.0 Ice+1.0 Temp	105.29	0.00	0.00	1.47	3.74	-0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	105.29	-0.02	-8.53	-871.92	5.62	-0.24
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	105.29	4.25	-7.38	-754.05	-432.20	-0.03
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	105.29	7.38	-4.25	-433.69	-753.15	0.19
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	105.29	8.54	0.02	3.32	-871.23	0.35
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	105.29	7.40	4.28	439.89	-754.80	0.43
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	105.29	4.28	7.40	759.04	-435.07	0.38
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	105.29	0.02	8.53	875.25	2.31	0.24
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	105.29	-4.25	7.38	757.39	440.12	0.03
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	105.29	-7.38	4.25	437.03	761.07	-0.19
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	105.29	-8.54	-0.02	0.01	879.15	-0.35
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	105.29	-7.40	-4.28	-436.56	762.72	-0.43
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	105.29	-4.28	-7.40	-755.70	442.99	-0.38
Dead+Wind 0 deg - Service	53.25	-0.02	-8.03	-787.98	3.52	-0.12
Dead+Wind 30 deg - Service	53.25	4.01	-6.95	-681.41	-392.39	0.04
Dead+Wind 60 deg - Service	53.25	6.96	-4.00	-392.01	-682.69	0.19
Dead+Wind 90 deg - Service	53.25	8.05	0.02	2.66	-789.59	0.29
Dead+Wind 120 deg - Service	53.25	6.98	4.03	396.86	-684.45	0.31
Dead+Wind 150 deg - Service	53.25	4.04	6.97	684.97	-395.45	0.25
Dead+Wind 180 deg - Service	53.25	0.02	8.03	789.77	-0.01	0.12
Dead+Wind 210 deg - Service	53.25	-4.01	6.95	683.20	395.90	-0.04
Dead+Wind 240 deg - Service	53.25	-6.96	4.00	393.80	686.19	-0.19
Dead+Wind 270 deg - Service	53.25	-8.05	-0.02	-0.87	793.10	-0.29
Dead+Wind 300 deg - Service	53.25	-6.98	-4.03	-395.08	687.96	-0.31
Dead+Wind 330 deg - Service	53.25	-4.04	-6.97	-683.18	398.96	-0.25

Solution Summary

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX	PY	PZ	PX	PY	PZ	% Error
	K	K	K	K	K	K	
1	0.00	-53.25	0.00	0.00	53.25	0.00	0.000%
2	-0.07	-63.90	-32.42	0.07	63.90	32.42	0.000%
3	-0.07	-47.92	-32.42	0.07	47.92	32.42	0.000%

Load Comb.	Sum of Applied Forces PX K	PY K	PZ K	Sum of Reactions PX K	PY K	PZ K	% Error
4	16.18	-63.90	-28.04	-16.18	63.90	28.04	0.000%
5	16.18	-47.92	-28.04	-16.18	47.92	28.04	0.000%
6	28.09	-63.90	-16.15	-28.09	63.90	16.15	0.000%
7	28.09	-47.92	-16.15	-28.09	47.92	16.15	0.000%
8	32.47	-63.90	0.07	-32.47	63.90	-0.07	0.000%
9	32.47	-47.92	0.07	-32.47	47.92	-0.07	0.000%
10	28.16	-63.90	16.27	-28.16	63.90	-16.27	0.000%
11	28.16	-47.92	16.27	-28.16	47.92	-16.27	0.000%
12	16.30	-63.90	28.11	-16.30	63.90	-28.11	0.000%
13	16.30	-47.92	28.11	-16.30	47.92	-28.11	0.000%
14	0.07	-63.90	32.42	-0.07	63.90	-32.42	0.000%
15	0.07	-47.92	32.42	-0.07	47.92	-32.42	0.000%
16	-16.18	-63.90	28.04	16.18	63.90	-28.04	0.000%
17	-16.18	-47.92	28.04	16.18	47.92	-28.04	0.000%
18	-28.09	-63.90	16.15	28.09	63.90	-16.15	0.000%
19	-28.09	-47.92	16.15	28.09	47.92	-16.15	0.000%
20	-32.47	-63.90	-0.07	32.47	63.90	0.07	0.000%
21	-32.47	-47.92	-0.07	32.47	47.92	0.07	0.000%
22	-28.16	-63.90	-16.27	28.16	63.90	16.27	0.000%
23	-28.16	-47.92	-16.27	28.16	47.92	16.27	0.000%
24	-16.30	-63.90	-28.11	16.30	63.90	28.11	0.000%
25	-16.30	-47.92	-28.11	16.30	47.92	28.11	0.000%
26	0.00	-105.29	0.00	0.00	105.29	0.00	0.000%
27	-0.02	-105.29	-8.53	0.02	105.29	8.53	0.000%
28	4.25	-105.29	-7.38	-4.25	105.29	7.38	0.000%
29	7.38	-105.29	-4.25	-7.38	105.29	4.25	0.000%
30	8.54	-105.29	0.02	-8.54	105.29	-0.02	0.000%
31	7.40	-105.29	4.28	-7.40	105.29	-4.28	0.000%
32	4.28	-105.29	7.40	-4.28	105.29	-7.40	0.000%
33	0.02	-105.29	8.53	-0.02	105.29	-8.53	0.000%
34	-4.25	-105.29	7.38	4.25	105.29	-7.38	0.000%
35	-7.38	-105.29	4.25	7.38	105.29	-4.25	0.000%
36	-8.54	-105.29	-0.02	8.54	105.29	0.02	0.000%
37	-7.40	-105.29	-4.28	7.40	105.29	4.28	0.000%
38	-4.28	-105.29	-7.40	4.28	105.29	7.40	0.000%
39	-0.02	-53.25	-8.03	0.02	53.25	8.03	0.000%
40	4.01	-53.25	-6.95	-4.01	53.25	6.95	0.000%
41	6.96	-53.25	-4.00	-6.96	53.25	4.00	0.000%
42	8.05	-53.25	0.02	-8.05	53.25	-0.02	0.000%
43	6.98	-53.25	4.03	-6.98	53.25	-4.03	0.000%
44	4.04	-53.25	6.97	-4.04	53.25	-6.97	0.000%
45	0.02	-53.25	8.03	-0.02	53.25	-8.03	0.000%
46	-4.01	-53.25	6.95	4.01	53.25	-6.95	0.000%
47	-6.96	-53.25	4.00	6.96	53.25	-4.00	0.000%
48	-8.05	-53.25	-0.02	8.05	53.25	0.02	0.000%
49	-6.98	-53.25	-4.03	6.98	53.25	4.03	0.000%
50	-4.04	-53.25	-6.97	4.04	53.25	6.97	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	0.00006575
3	Yes	4	0.00000001	0.00003435
4	Yes	5	0.00000001	0.00005552
5	Yes	4	0.00000001	0.00095403
6	Yes	5	0.00000001	0.00005354
7	Yes	4	0.00000001	0.00091928
8	Yes	4	0.00000001	0.00011158
9	Yes	4	0.00000001	0.00007003
10	Yes	5	0.00000001	0.00005717
11	Yes	4	0.00000001	0.00098176
12	Yes	5	0.00000001	0.00005466
13	Yes	4	0.00000001	0.00093803
14	Yes	4	0.00000001	0.00006442

15	Yes	4	0.00000001	0.00003324
16	Yes	5	0.00000001	0.00005430
17	Yes	4	0.00000001	0.00093162
18	Yes	5	0.00000001	0.00005658
19	Yes	4	0.00000001	0.00097120
20	Yes	4	0.00000001	0.00010006
21	Yes	4	0.00000001	0.00006160
22	Yes	5	0.00000001	0.00005422
23	Yes	4	0.00000001	0.00093031
24	Yes	5	0.00000001	0.00005645
25	Yes	4	0.00000001	0.00096922
26	Yes	4	0.00000001	0.00000001
27	Yes	4	0.00000001	0.00086592
28	Yes	4	0.00000001	0.00091302
29	Yes	4	0.00000001	0.00091381
30	Yes	4	0.00000001	0.00086910
31	Yes	4	0.00000001	0.00092384
32	Yes	4	0.00000001	0.00092340
33	Yes	4	0.00000001	0.00087413
34	Yes	4	0.00000001	0.00092555
35	Yes	4	0.00000001	0.00092716
36	Yes	4	0.00000001	0.00087608
37	Yes	4	0.00000001	0.00092348
38	Yes	4	0.00000001	0.00092155
39	Yes	4	0.00000001	0.00001213
40	Yes	4	0.00000001	0.00002994
41	Yes	4	0.00000001	0.00002780
42	Yes	4	0.00000001	0.00001323
43	Yes	4	0.00000001	0.00003152
44	Yes	4	0.00000001	0.00002862
45	Yes	4	0.00000001	0.00001217
46	Yes	4	0.00000001	0.00002867
47	Yes	4	0.00000001	0.00003129
48	Yes	4	0.00000001	0.00001320
49	Yes	4	0.00000001	0.00002821
50	Yes	4	0.00000001	0.00003066

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	140 - 86.83	11.303	48	0.6719	0.0011
L2	92.5 - 38	5.095	48	0.5240	0.0004
L3	45 - 0	1.183	49	0.2379	0.0002

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
140.00	BXA-80063-4BF-EDIN-X w/ Mount Pipe	48	11.303	0.6719	0.0011	99422
126.00	APXVAARR24_43-U-NA20 w/ Mount Pipe	48	9.357	0.6389	0.0009	35508
117.00	DMP65R-BU8D w/ Mount Pipe	48	8.137	0.6149	0.0007	21613
104.00	PCS 1900MHz 4x45W-65MHz	48	6.459	0.5725	0.0005	13808
103.00	6' x 2" Mount Pipe	48	6.335	0.5688	0.0005	13435
93.00	MX08FRO665-21 w/ Mount Pipe	48	5.151	0.5264	0.0004	10669
74.00	BCD-87010	49	3.217	0.4213	0.0003	9281
50.00	KS24019-L112A	49	1.448	0.2687	0.0002	8083

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	140 - 86.83	45.837	22	2.7262	0.0044
L2	92.5 - 38	20.660	22	2.1262	0.0017
L3	45 - 0	4.795	22	0.9647	0.0006

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
140.00	BXA-80063-4BF-EDIN-X w/ Mount Pipe	22	45.837	2.7262	0.0044	24584
126.00	APXVAARR24_43-U-NA20 w/ Mount Pipe	22	37.946	2.5923	0.0035	8779
117.00	DMP65R-BU8D w/ Mount Pipe	22	32.998	2.4949	0.0029	5343
104.00	PCS 1900MHz 4x45W-65MHz	22	26.192	2.3230	0.0022	3412
103.00	6' x 2" Mount Pipe	22	25.690	2.3078	0.0022	3320
93.00	MX08FRO665-21 w/ Mount Pipe	22	20.889	2.1359	0.0017	2635
74.00	BCD-87010	22	13.044	1.7093	0.0011	2290
50.00	KS24019-L112A	22	5.868	1.0897	0.0007	1994

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L1	140 - 86.83 (1)	TP39.223x26.216x0.3125	53.17	0.00	0.0	37.7580	-27.94	2208.84	0.013
L2	86.83 - 38 (2)	TP50.56x37.2109x0.4063	54.50	0.00	0.0	63.3645	-43.02	3706.82	0.012
L3	38 - 0 (3)	TP59.05x48.0329x0.5	45.00	0.00	0.0	94.2655	-63.88	5514.53	0.012

Pole Bending Design Data

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L1	140 - 86.83 (1)	TP39.223x26.216x0.3125	608.68	1838.14	0.331	0.00	1838.14	0.000
L2	86.83 - 38 (2)	TP50.56x37.2109x0.4063	1841.21	3995.66	0.461	0.00	3995.66	0.000
L3	38 - 0 (3)	TP59.05x48.0329x0.5	3213.74	7247.00	0.443	0.00	7247.00	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	140 - 86.83 (1)	TP39.223x26.216x0.3125	23.41	662.65	0.035	0.43	2187.20	0.000
L2	86.83 - 38 (2)	TP50.56x37.2109x0.4063	28.38	1112.05	0.026	1.25	4738.27	0.000
L3	38 - 0 (3)	TP59.05x48.0329x0.5	32.54	1654.36	0.020	1.25	8520.33	0.000

Pole Interaction Design Data

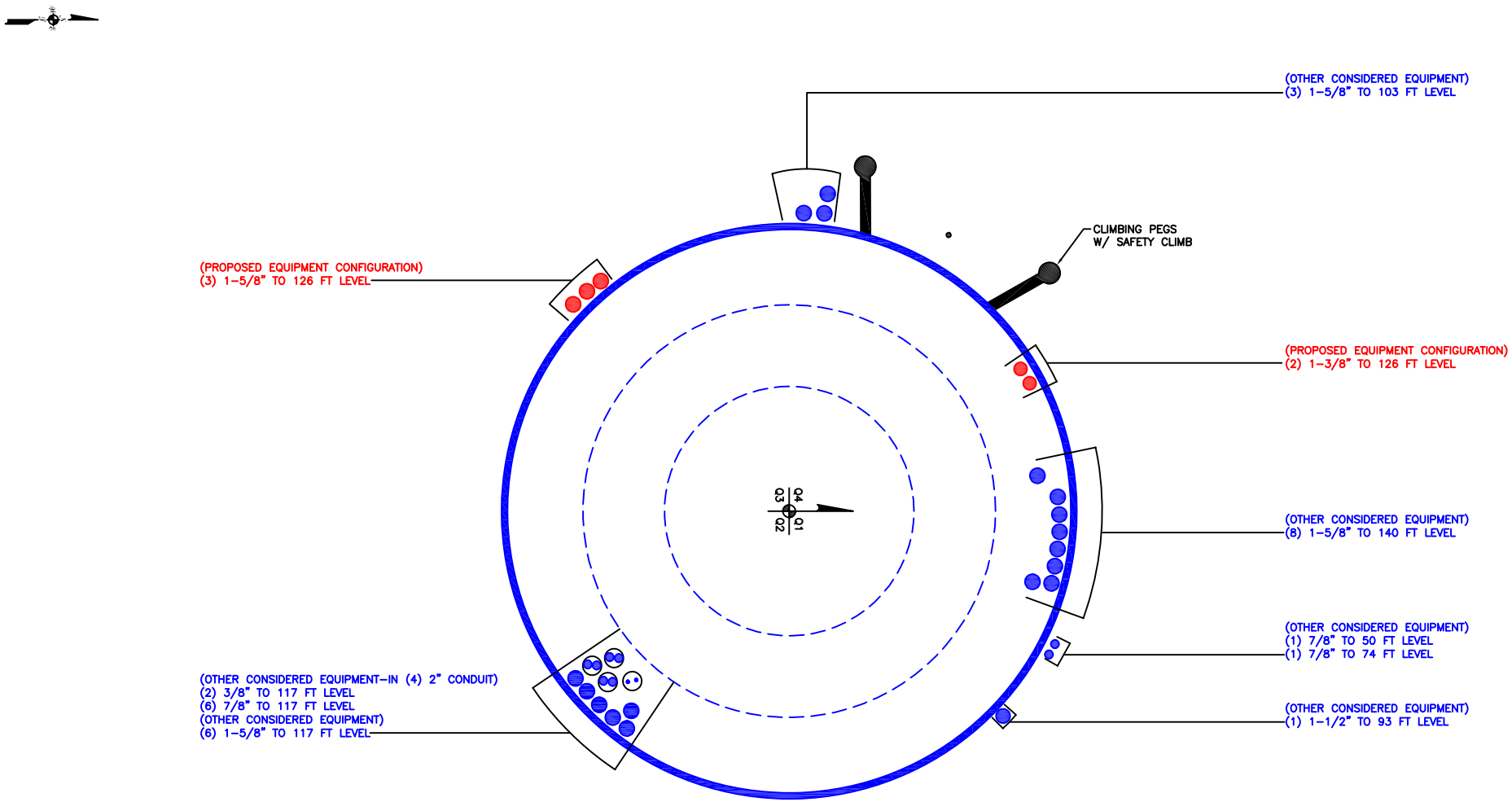
Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	140 - 86.83 (1)	0.013	0.331	0.000	0.035	0.000	0.345	1.050	4.8.2
L2	86.83 - 38 (2)	0.012	0.461	0.000	0.026	0.000	0.473	1.050	4.8.2
L3	38 - 0 (3)	0.012	0.443	0.000	0.020	0.000	0.455	1.050	4.8.2

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	140 - 86.83	Pole	TP39.223x26.216x0.3125	1	-27.94	2319.28	32.9	Pass
L2	86.83 - 38	Pole	TP50.56x37.2109x0.4063	2	-43.02	3892.16	45.1	Pass
L3	38 - 0	Pole	TP59.05x48.0329x0.5	3	-63.88	5790.26	43.4	Pass
							Summary	
						Pole (L2)	45.1	Pass
						RATING =	**45.1**	**Pass**

APPENDIX B

BASE LEVEL DRAWING



BUSINESS UNIT: 806369 TOWER ID: C_BASELEVEL

APPENDIX C

ADDITIONAL CALCULATIONS

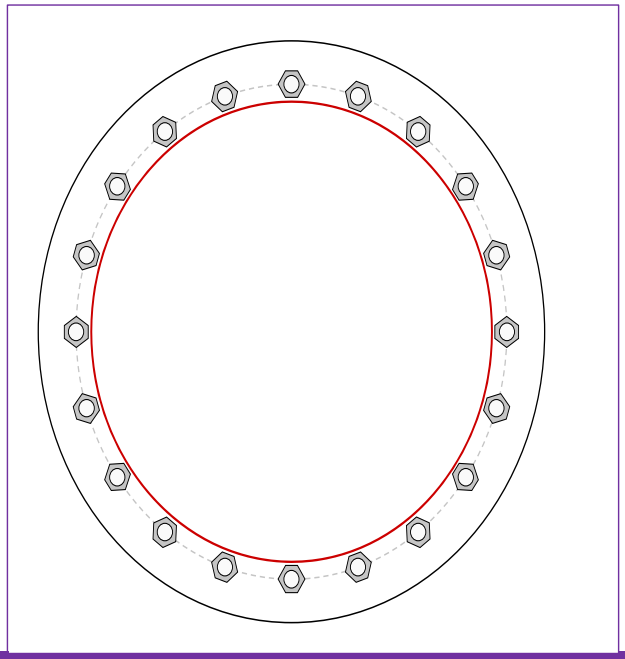
Monopole Base Plate Connection

Site Info	
BU #	806369
Site Name	HRT 094 943225
Order #	556516 Rev. 0

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
l_{ar} (in)	0.25

Applied Loads	
Moment (kip-ft)	3213.74
Axial Force (kips)	63.88
Shear Force (kips)	32.54

**TIA-222-H Section 15.5 Applied*



Connection Properties

Anchor Rod Data

(20) 2-1/4" ø bolts (A615-75 N; Fy=75 ksi, Fu=100 ksi) on 63.5" BC

Base Plate Data

74.641" OD x 3" Plate (A572-60; Fy=60 ksi, Fu=75 ksi)

Stiffener Data

N/A

Pole Data

59.05" x 0.5" 12-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

Analysis Results

Anchor Rod Summary		*(units of kips, kip-in)*
Pu_t = 118.21	ϕPn_t = 243.75	**Stress Rating**
Vu = 1.63	ϕVn = 149.1	**46.2%**
Mu = n/a	ϕMn = n/a	**Pass**

Base Plate Summary		
Max Stress (ksi):	8.59	(Flexural)
Allowable Stress (ksi):	54	
Stress Rating:	**15.1%**	**Pass**

Drilled Pier Foundation

BU # :	806369
Site Name:	HRT 094 943225
Order Number:	608638 Rev. 0
TIA-222 Revison:	H
Tower Type:	Monopole

Check Limitation	
Apply TIA-222-H Section 15.5:	☑
N/A	☐
Additional Longitudinal Rebar	
Input Effective Depths (else Actual):	☐
Shear Design Options	
Check Shear along Depth of Pier:	☑
Utilize Shear-Friction Methodology:	☐
Override Critical Depth:	☐

Go to Soil Calculations

Applied Loads	Comp.	Uplift
Moment (kip-ft)	3213.74	
Axial Force (kips)	63.9	
Shear Force (kips)	32.52	

Material Properties		
Concrete Strength, f'c:	3	ksi
Rebar Strength, Fy:	60	ksi
Tie Yield Strength, Fyt:	40	ksi

Pier Design Data		
Depth	47	ft
Ext. Above Grade	0	ft
Pier Section 1		
From 0' below grade to 47' below grade		
Pier Diameter	7.5	ft
Rebar Quantity	52	
Rebar Size	10	
Rebar Cage Diameter	82	in
Tie Size	4	
Tie Spacing		in

Rebar & Pier Options
Embedded Pole Inputs
Belled Pier Inputs

Analysis Results		
Soil Lateral Check	*Compression*	*Uplift*
$D_{v=0}$ (ft from TOC)	7.54	-
Soil Safety Factor	7.94	-
Max Moment (kip-ft)	3402.60	-
Rating*	*16.0%*	-
Soil Vertical Check	*Compression*	*Uplift*
Skin Friction (kips)	406.44	-
End Bearing (kips)	298.21	-
Weight of Concrete (kips)	251.31	-
Total Capacity (kips)	704.65	-
Axial (kips)	315.21	-
Rating*	*42.6%*	-
Reinforced Concrete Flexure	*Compression*	*Uplift*
Critical Depth (ft from TOC)	7.45	-
Critical Moment (kip-ft)	3402.56	-
Critical Moment Capacity	10731.93	-
Rating*	*30.2%*	-
Reinforced Concrete Shear	*Compression*	*Uplift*
Critical Depth (ft from TOC)	25.52	-
Critical Shear (kip)	188.67	-
Critical Shear Capacity	565.17	-
Rating*	*31.8%*	-

Structural Foundation Rating*	**31.8%**
Soil Interaction Rating*	**42.6%**

*Rating per TIA-222-H Section 15.5

Soil Profile

Groundwater Depth	10	# of Layers	8

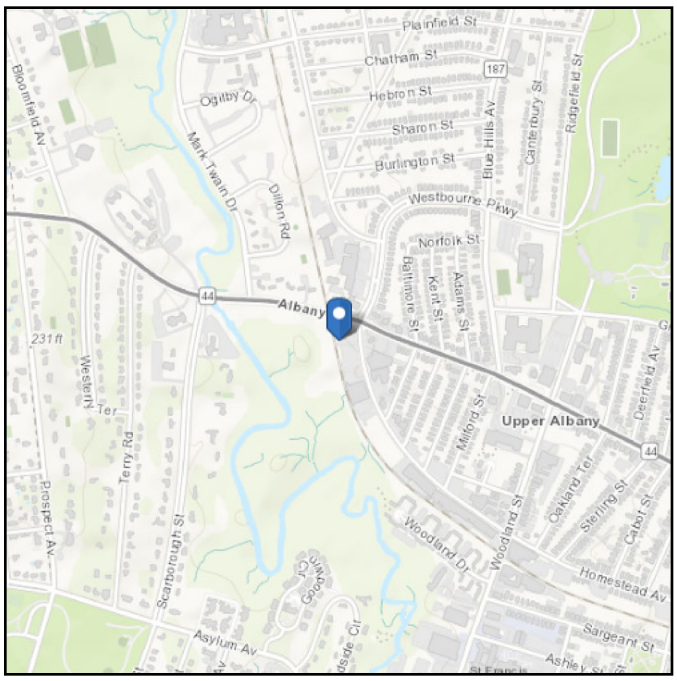
Layer	Top (ft)	Bottom (ft)	Thickness (ft)	γ_{soil} (pcf)	$\gamma_{concrete}$ (pcf)	Cohesion (ksf)	Angle of Friction (degrees)	Calculated Ultimate Skin Friction Comp (ksf)	Calculated Ultimate Skin Friction Uplift (ksf)	Ultimate Skin Friction Comp Override (ksf)	Ultimate Skin Friction Uplift Override (ksf)	Ult. Gross Bearing Capacity (ksf)	SPT Blow Count	Soil Type
1	0	2	2	105	150	0	0	0.000	0.000	0.00	0.00			Cohesionless
2	2	3.75	1.75	100	150	0	0	0.000	0.000	0.00	0.00			Cohesionless
3	3.75	5	1.25	100	150	0.5	30	0.000	0.000	0.00	0.00			Cohesionless
4	5	10	5	100	150	0.5	30	0.000	0.000	0.60	0.60			Cohesionless
5	10	25	15	36	87.6	0.1	27	0.000	0.000	0.40	0.40			Cohesionless
6	25	35	10	36	87.6	0.1	27	0.000	0.000	0.60	0.60			Cohesionless
7	35	45	10	41	87.6	0.2	0	0.11	0.11	0.60	0.60			Cohesive
8	45	47	2	41	87.6	0	32	0.00	0.00	1.00	1.00	9		Cohesionless

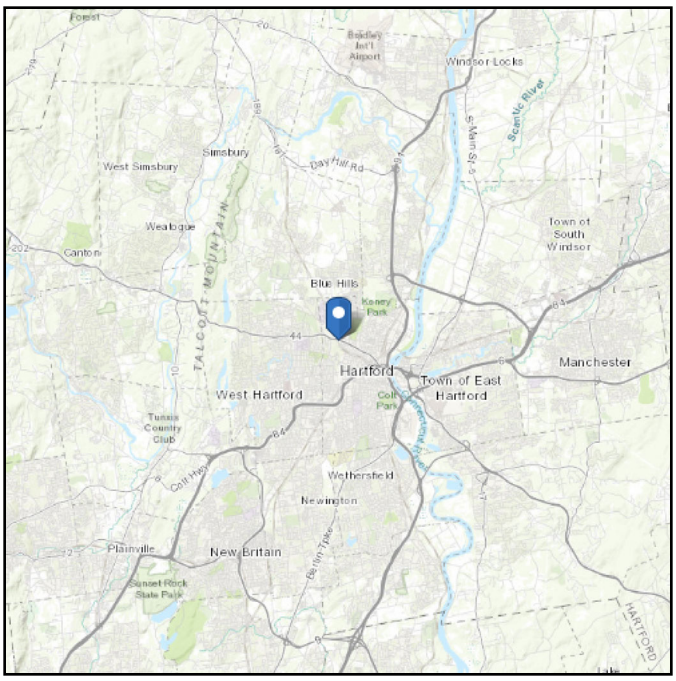
ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-16
Risk Category: II
Soil Class: D - Stiff Soil

Elevation: 60.06 ft (NAVD 88)
Latitude: 41.783781
Longitude: -72.703794





Wind

Results:

Wind Speed	117 Vmph
10-year MRI	75 Vmph
25-year MRI	84 Vmph
50-year MRI	90 Vmph
100-year MRI	97 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: Mon Apr 25 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.

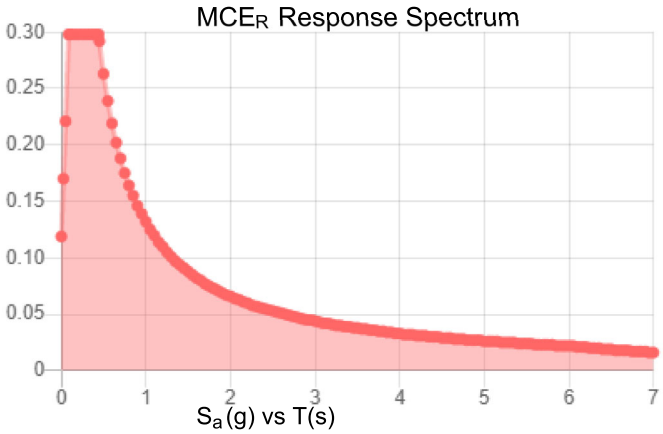
Seismic

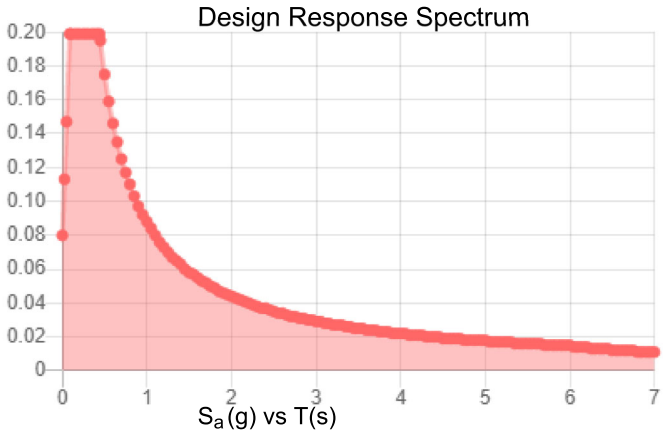
Site Soil Class: D - Stiff Soil

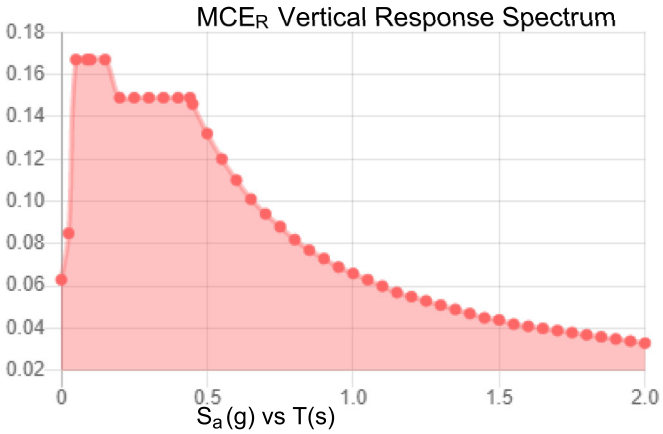
Results:

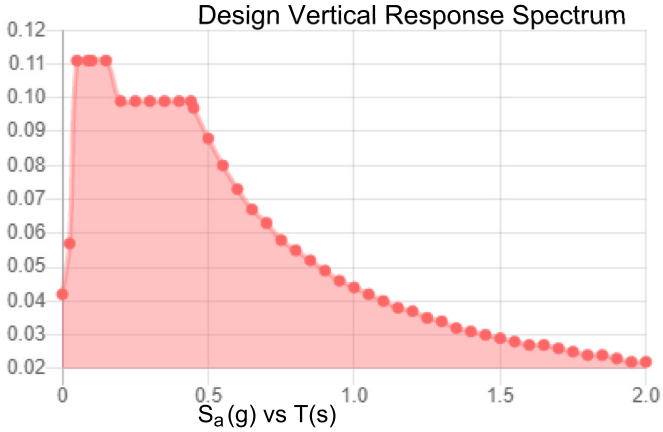
S_S :	0.186	S_{D1} :	0.088
S_1 :	0.055	T_L :	6
F_a :	1.6	PGA :	0.1
F_v :	2.4	PGA_M :	0.16
S_{MS} :	0.298	F_{PGA} :	1.6
S_{M1} :	0.132	I_e :	1
S_{DS} :	0.199	C_v :	0.7

Seismic Design Category B









Data Accessed: **Mon Apr 25 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:	1.50 in.
Concurrent Temperature:	5 F
Gust Speed	50 mph
Data Source:	Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8
Date Accessed:	Mon Apr 25 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.

Date: **April 19, 2022**

POD Group
1033 E Turkeyfoot Lake Rd. Suite 206
Akron, OH 44312
(330) 961.7432
mhoudeshell@podgrp.com

Subject:	**Mount Analysis - Conditional Passing Report**	
Carrier Designation:	**T-Mobile**	
	Carrier Site Number:	**CT11161D**
	Carrier Site Name:	**CT161/Jn of Albany_1**
Crown Castle Designation:	**Crown Castle BU Number:**	**806369**
	Crown Castle Site Name:	**HRT 094 943225**
	Crown Castle JDE Job Number:	**709263**
	Crown Castle Order Number:	**608638 Rev.0**
Engineering Firm Designation:	**POD Report Designation:**	**22-126971**
Site Data:	**439-455 Homestead Ave., Hartford, Hartford County, CT 06105** **Latitude 41°47'01.61" Longitude -72°42'13.66"**	
Structure Information:	**Tower Height & Type:**	**140 ft Monopole**
	Mount Elevation:	**126 ft**
	Mount Type:	**12.83 ft Platform w/ Support Rails**

POD Group is pleased to submit this "Mount Analysis - Conditional Passing Report" to determine the structural integrity of T-Mobile's antenna mounting system with the proposed appurtenance and equipment addition on the abovementioned 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:

12.83 ft Platform w/ Support Rails(Multiple Sector) **Sufficient***
***See Section 4.1 of this report for the loading and structural modifications required in order for the mount to support the loading listed in Table 1.**

This analysis utilizes an ultimate 3-second gust wind speed of 125 mph as required by the 2018 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Respectfully submitted by:

Jason Cheronis, PE Connecticut
PE #: PEN.0032793

STATE OF CONNECTICUT
JASON CHERONIS
PEN.0032793
LICENSED
PROFESSIONAL ENGINEER

Jason Cheronis
Digitally signed by Jason Cheronis
Date: 2022.04.19 15:44:57 -04'00'

TABLE OF CONTENTS

1) INTRODUCTION

This is an existing 3-sector 12.83' platform with support rails, mapped by Tower Engineering Professional.

2) ANALYSIS CRITERIA

Building Code:	2018 Connecticut Building Code & 2015 IBC
TIA-222 Revision:	TIA-222-H
Risk Category:	II
Ultimate Wind Speed:	125 mph
Exposure Category:	B
Topographic Factor at Base:	1.000
Topographic Factor at Mount:	1.000
Ice Thickness:	1.5 in
Wind Speed with Ice:	50 mph
Seismic S_s:	0.181
Seismic S_1:	0.064
Live Loading Wind Speed:	30 mph
Man Live Load at Mid/End-Points:	250 lb
Man Live Load at Mount Pipes:	500 lb

Table 1 - Proposed Equipment Configuration

Mount Centerline (ft)	Antenna Centerline (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Mount / Modification Details	Note
126	128	3	COMMSCOPE	VV-65A-R1_TMO	12.83 ft Platform w/ Support Rails	-
		3	ERICSSON	AIR 6419 B41_TMO		
		3	RFS/CELWAVE	APXVAARR24_43-U-NA20		
		3	ERICSSON	RADIO 4449 B71 B85A_T-MOBILE		
		3	ERICSSON	RADIO 4460 B2/B25 B66_TMO		

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

Document	Remarks	Reference	Source
Crown Application	-	Crown Castle App #: 608638 Rev.0 Dated: 04/12/2022	Crown Castle
RFDS	-	T-Mobile File Name: CT11161D Dated: 03/22/2022	Crown Castle
Structural Analysis	-	Black & Veatch Corp. Report #: 400087 Dated: 09/11/2019	Crown Castle
Mount Mapping Report	-	Tower Engineering Professionals TEP #: 25689.177485 Dated: 9/17/2018	Crown Castle
Previous Mount Modification Analysis	-	POD Group Project #: 20-65646 Dated: 06/19/2020	POD Group

3.1) Analysis Method

RISA-3D (Version 17.0), a commercially available analysis software package, was used to create a three-dimensional model of the antenna mounting system and calculate member stresses for various loading cases. Selected output from the analysis are included in the Appendices.

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

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

3.2) Assumptions

1) The antenna mounting system was properly fabricated, installed, and maintained in good condition in accordance with its original design, TIA Standards, and/or manufacturer's specifications. This is not a condition assessment of the mount, structure, or foundation.
2) The configuration of antennas, mounts, and other appurtenances are as specified in Table 1 and the referenced drawings.
3) All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
4) The weight of the mount was increased 10% in the analysis to account for connections, coax, and jumpers.
5) The purpose of this report is to assess the feasibility of adding appurtenances usually accompanied by transmission lines to the structure. *POD Group* does not analyze the fabrication of the mount or structure (including welding).
6) The analysis will be required to be revised if the existing conditions in the field differ from those shown in the above-referenced documents or assumed in this analysis. No allowance was made for any damaged, missing, or rusted members.
7) Steel grades have been assumed as follows, unless noted otherwise:
    a. Channel, Angle, Plate — ASTM A36 (GR 36)
    b. HSS (Rectangular) — ASTM 500 (GR B-46)
    c. Pipe — ASTM A53 (GR 35)
    d. Connection Bolts — ASTM A325

If any of these assumptions are not valid or have been made in error, this analysis may be affected, and *POD Group* should be allowed to review any new information to determine its effect on the structural integrity of the mount.

4) ANALYSIS RESULTS

Table 3 - Mount Component Stresses vs. Capacity (12.83 ft Platform w/ Support Rails)

Notes	Component	Critical Member	Centerline (ft)	% Capacity	Pass / Fail
1	Standoff	SO2	126	27.6	Pass
	Face	FACE2		89.5	Pass
	Mount Pipe	MP BETA2		60.7	Pass
	Rail	RAIL3c		72.4	Pass
	Corner	CORNER		54.9	Pass
	Support	SUP2		26.1	Pass
	Kicker	KICKER2		26.4	Pass
	Plate	PLATE2		67.0	Pass
	Standoff	SO3		27.6	Pass
	Standoff Flange Plate Bolts	-		4.6	Pass
	Standoff Flange Plate	-		14.3	Pass
	Kicker Flange Plate Bolts	-		3.2	Pass
	Kicker Flange Plate	-		18.7	Pass
	Bolts	-		2.9	Pass

Structure Rating (max from all components) =	**89.5%**

Notes:
1) See additional documentation in “Appendix C – Software Analysis Output” and “Appendix D – Additional Calculations” for calculations supporting the % capacity

4.1) Recommendations

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

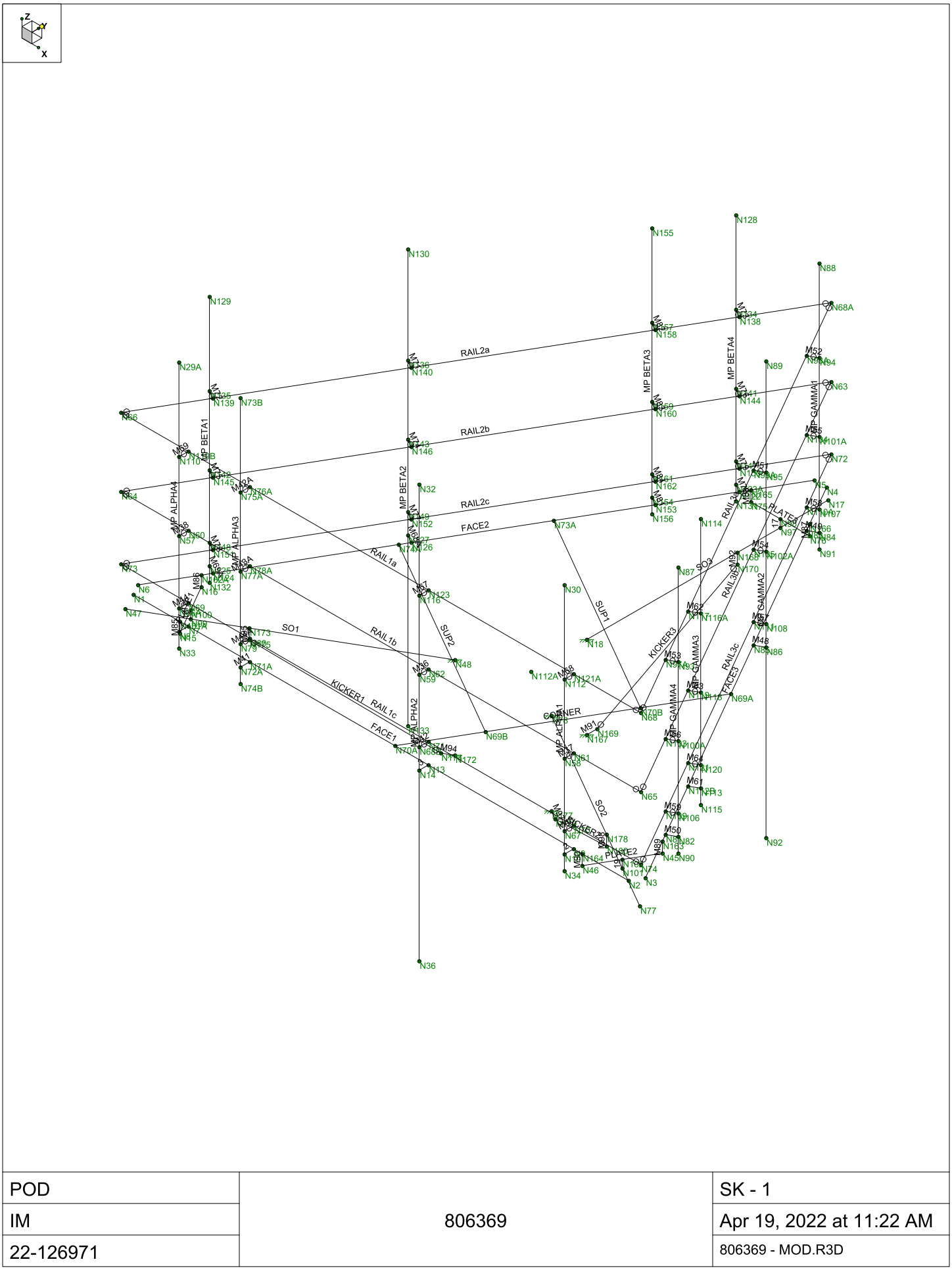
1. Installation of a Kicker support, SitePro1 P/N: PRK-1245, connected to the mount standoff at 3’-8” from the tower flange plate, and connected to the tower 2 ft bellow the mount standoff

- All critical measurements and manufacturer specifications for the above specified modification part shall be field verified prior to material ordering.
- The contractor shall provide shop drawings to POD Group prior to material ordering and/or fabrication of the above specified modification part.
- Any substitutes, additions, or alterations shall be approved by POD Group prior to material ordering and/or fabrication.

If any of these guidelines are not met, POD Group shall not be held liable.

APPENDIX A

Wire Frame and Rendered Models



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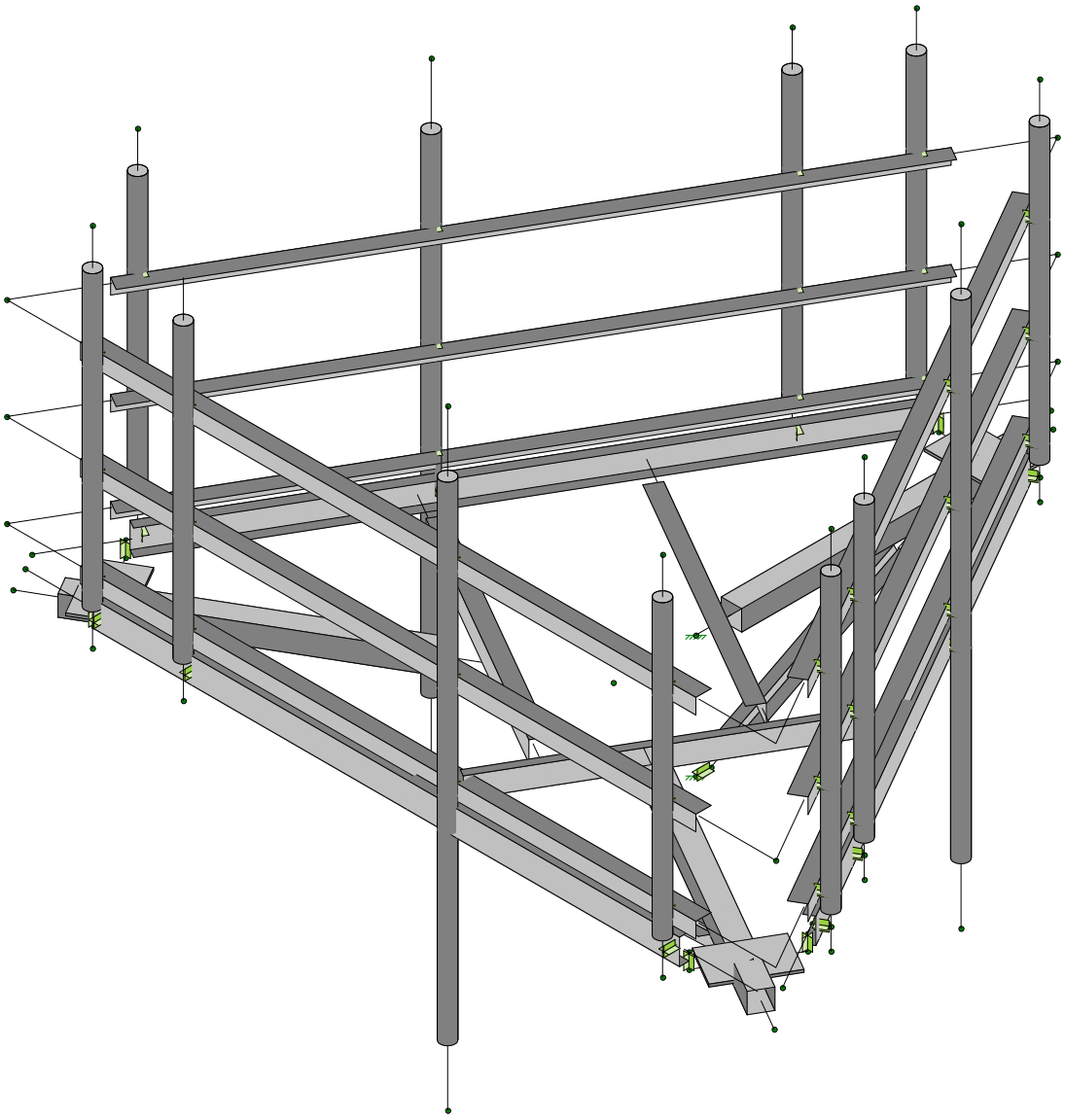

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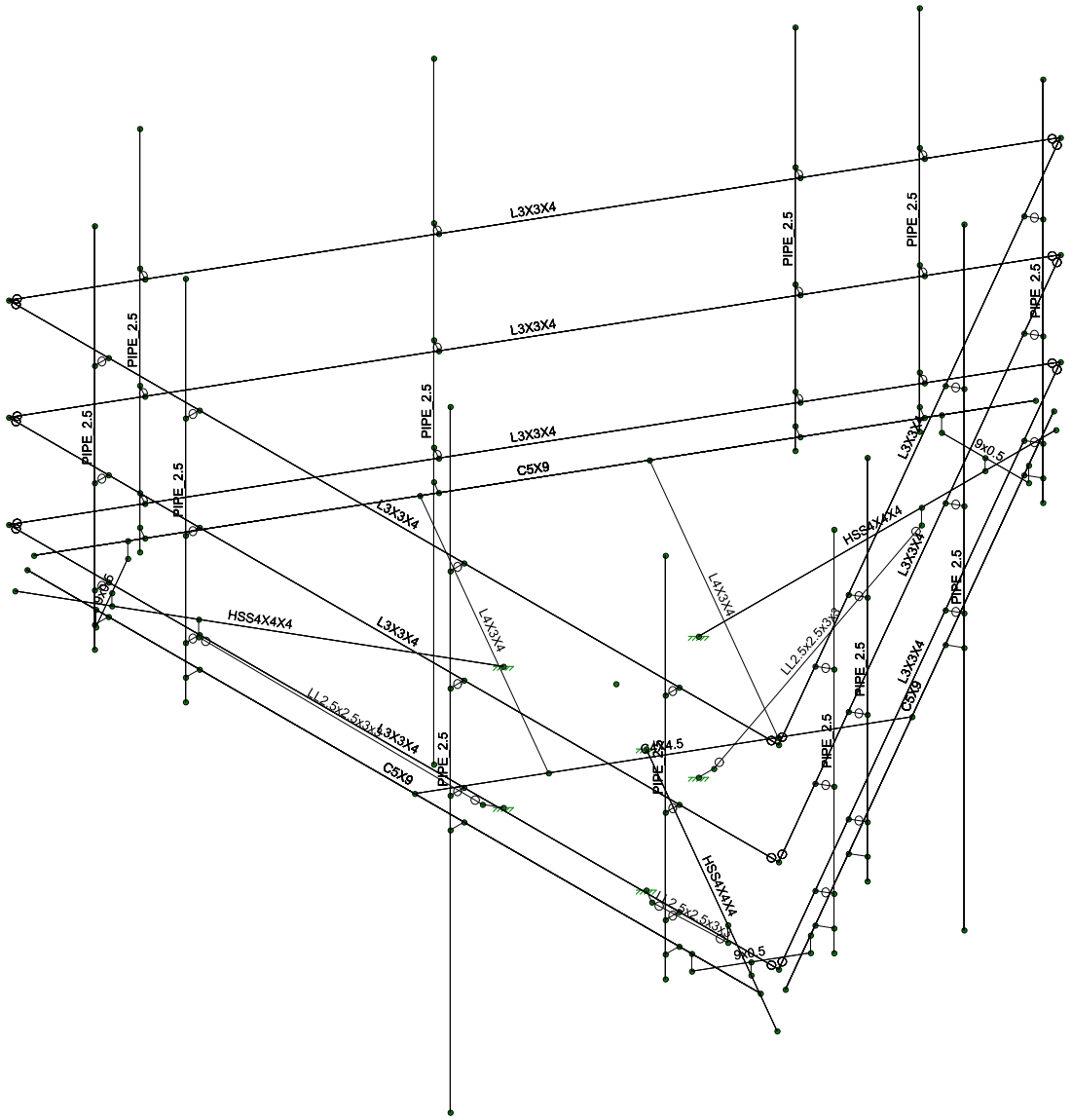

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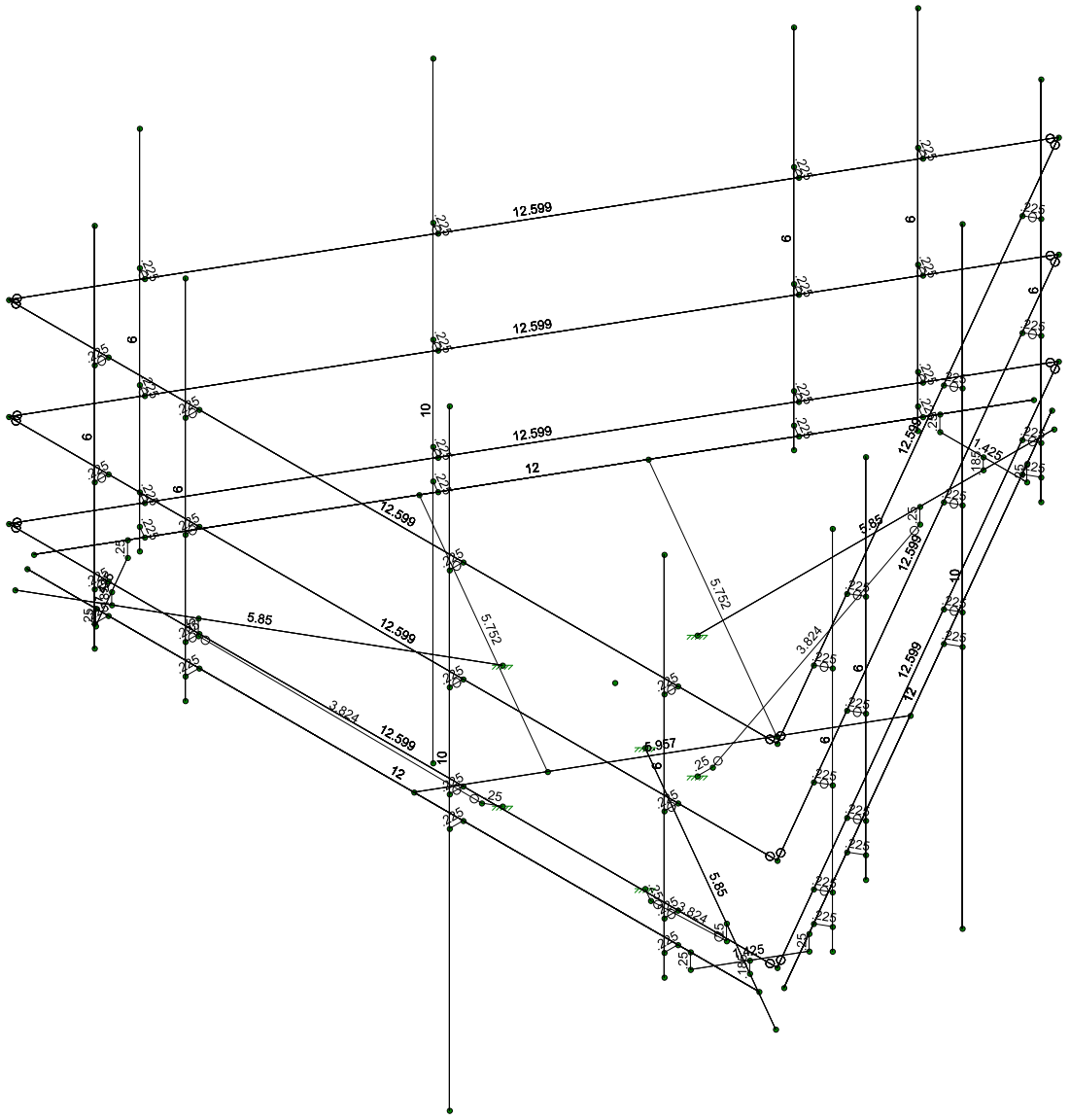
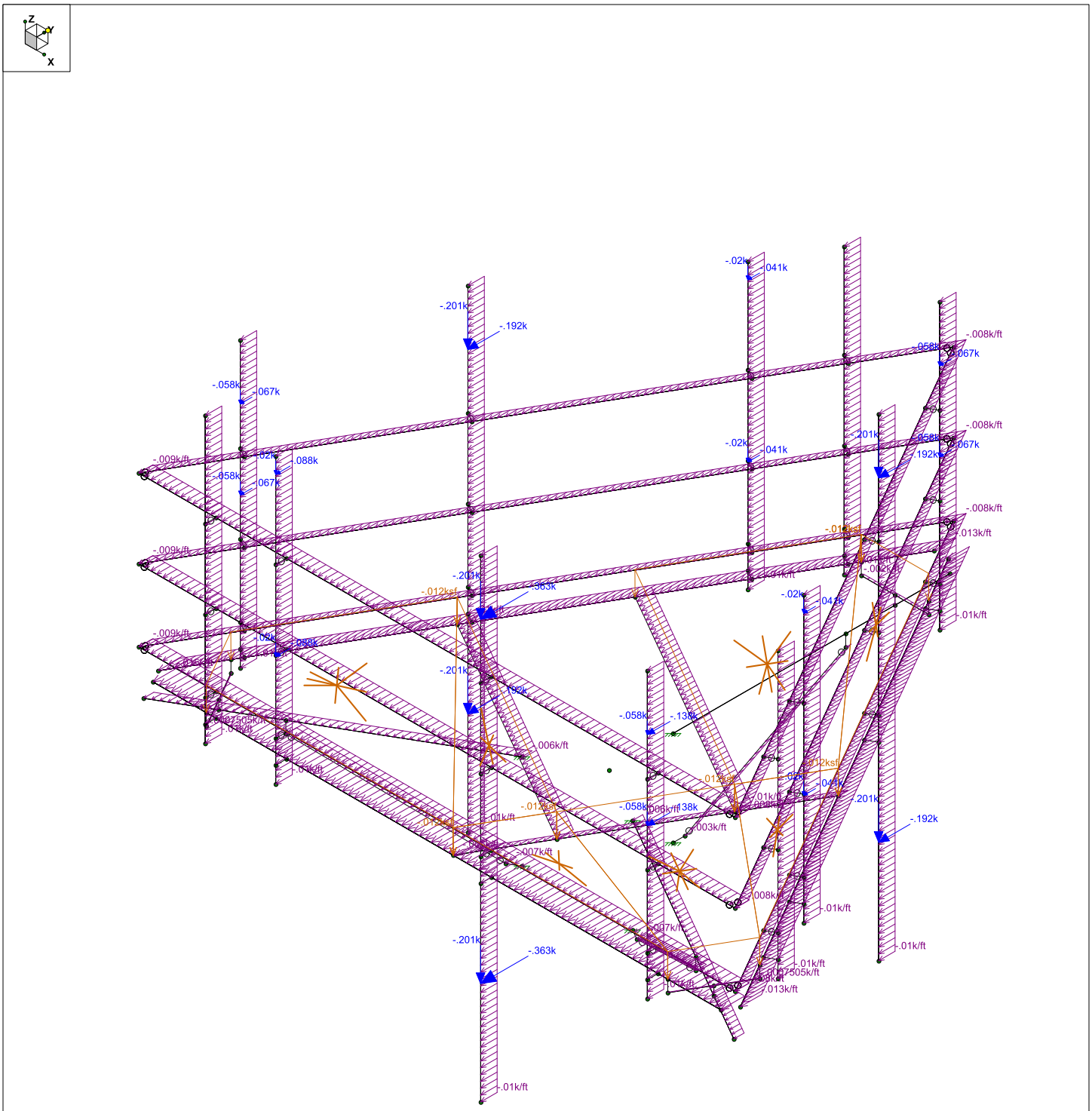


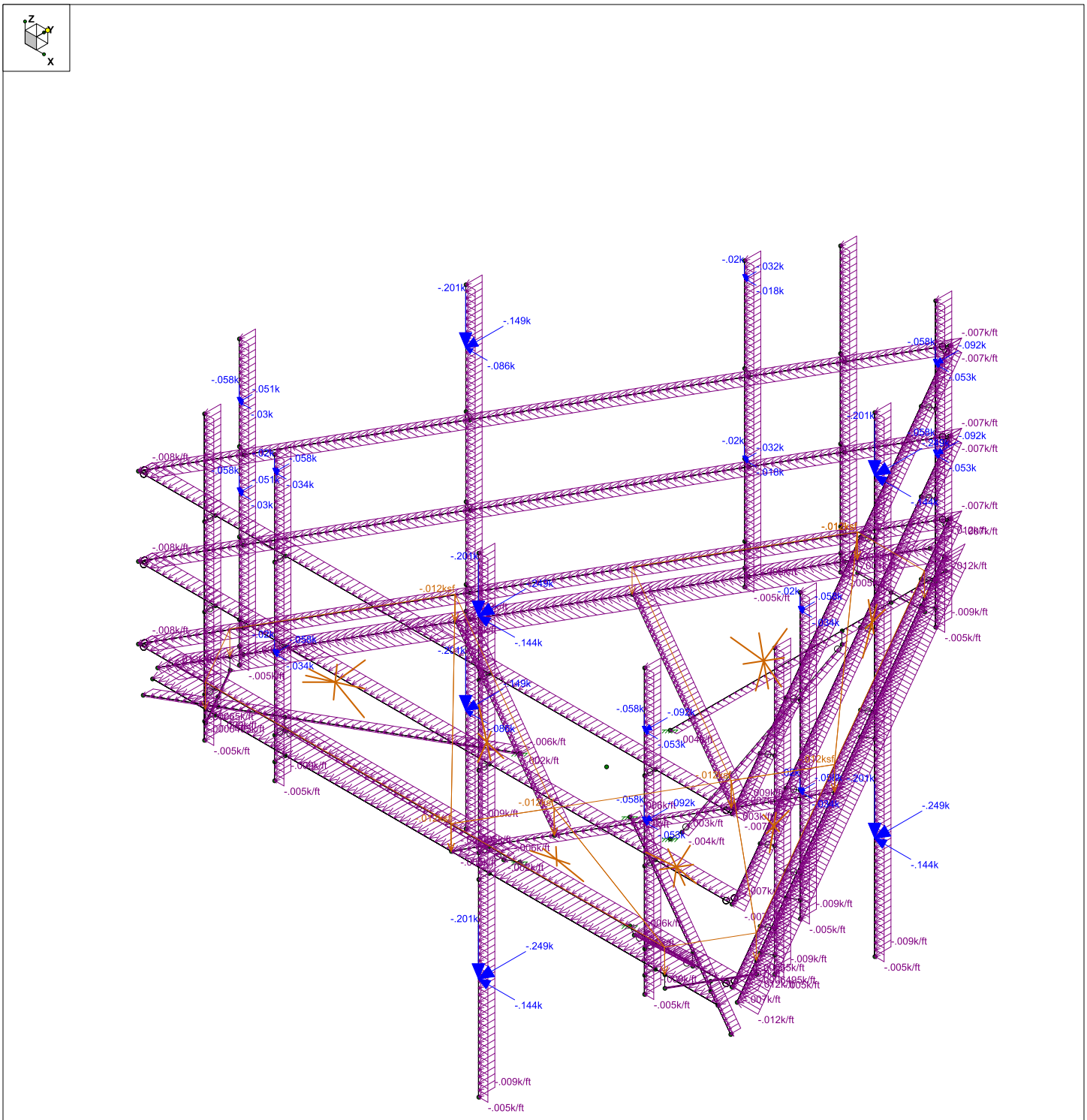
Member Length (ft) Displayed

POD	806369	SK - 4
IM		Apr 19, 2022 at 11:23 AM
22-126971		806369 - MOD.R3D



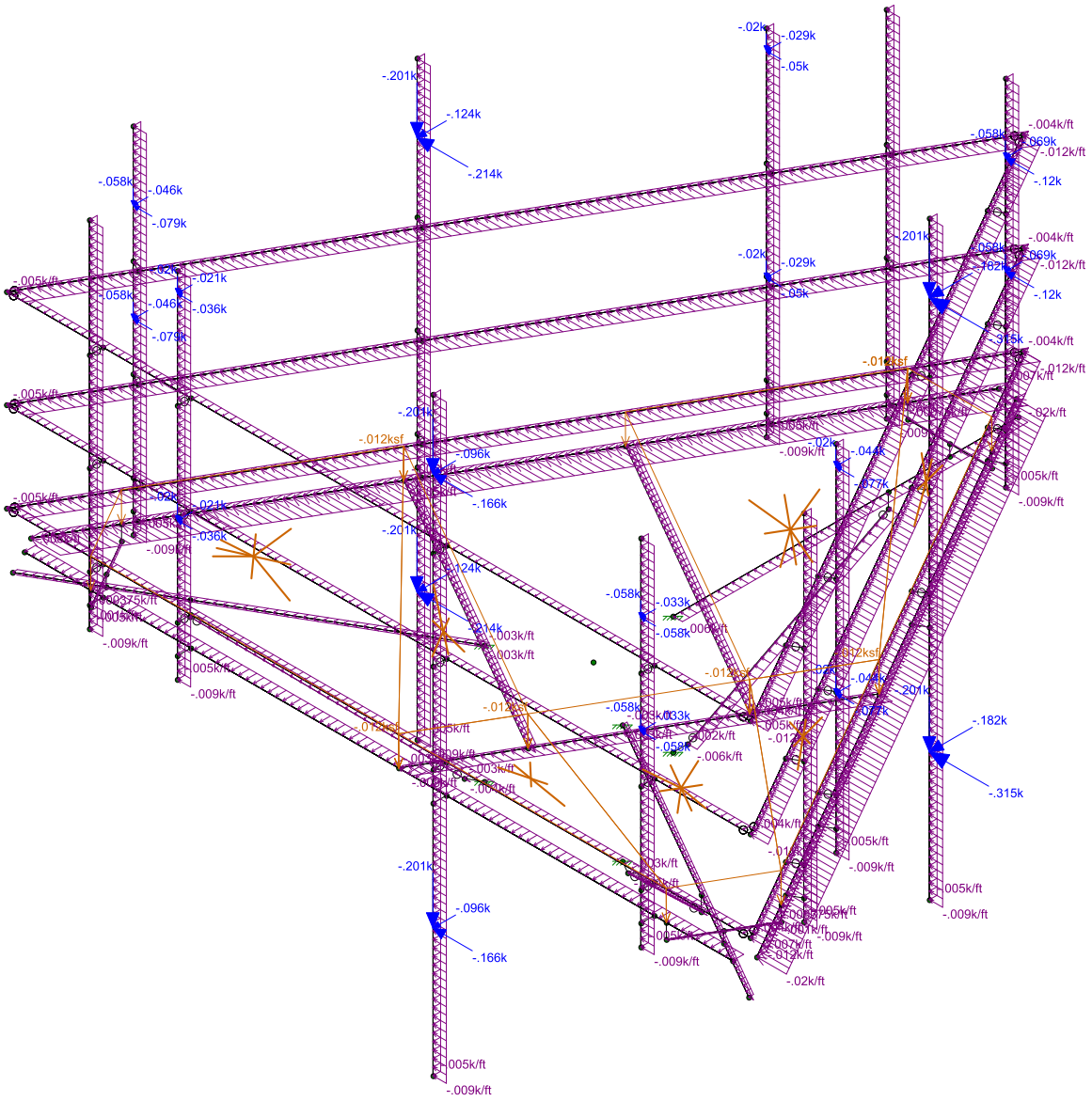
Loads: LC 2, 1.2D + 1.0W(0)

POD	806369	SK - 5
IM		Apr 19, 2022 at 11:23 AM
22-126971		806369 - MOD.R3D



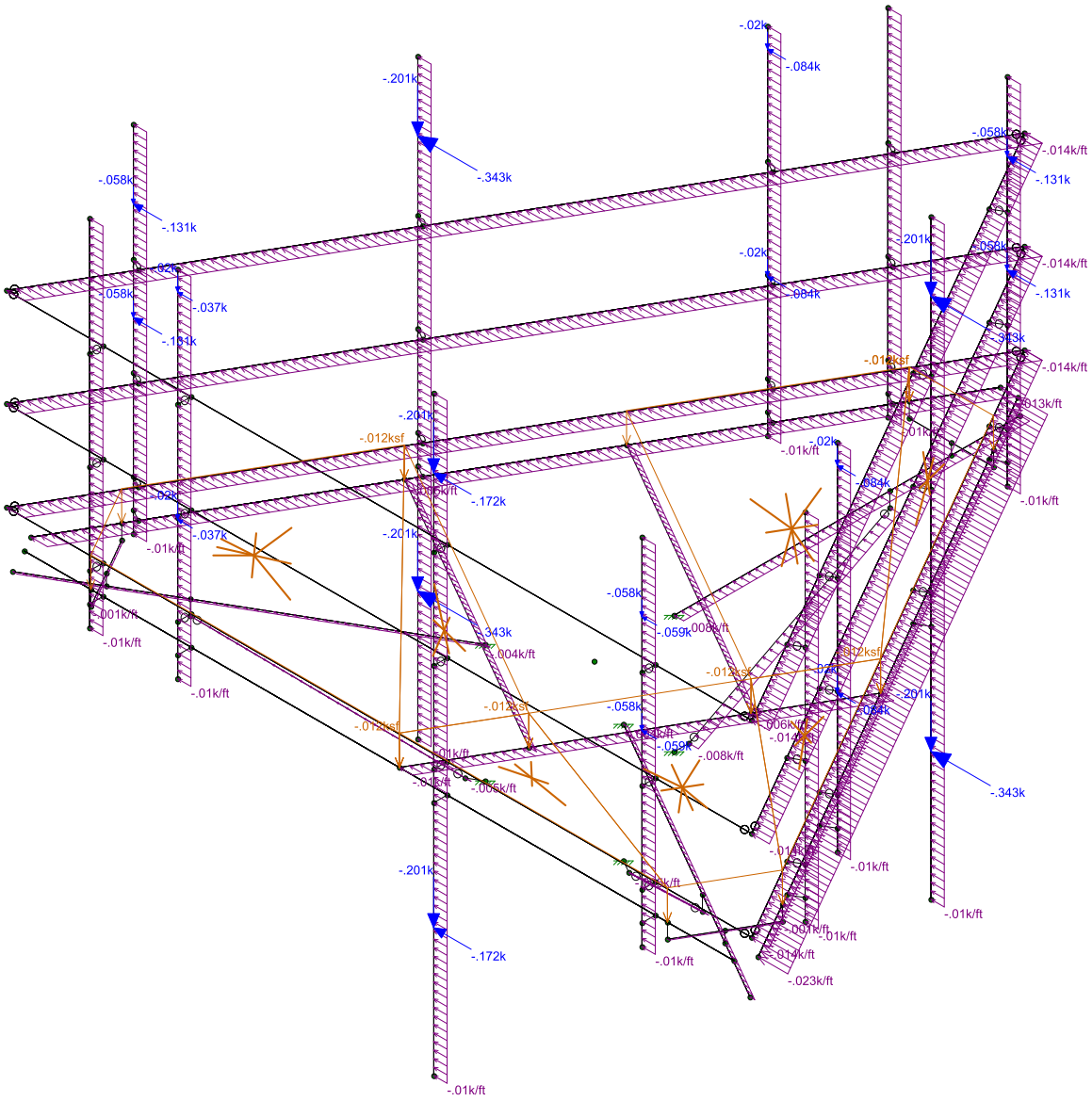
Loads: LC 5, 1.2D + 1.0W(30)

POD	806369	SK - 6
IM		Apr 19, 2022 at 11:24 AM
22-126971		806369 - MOD.R3D



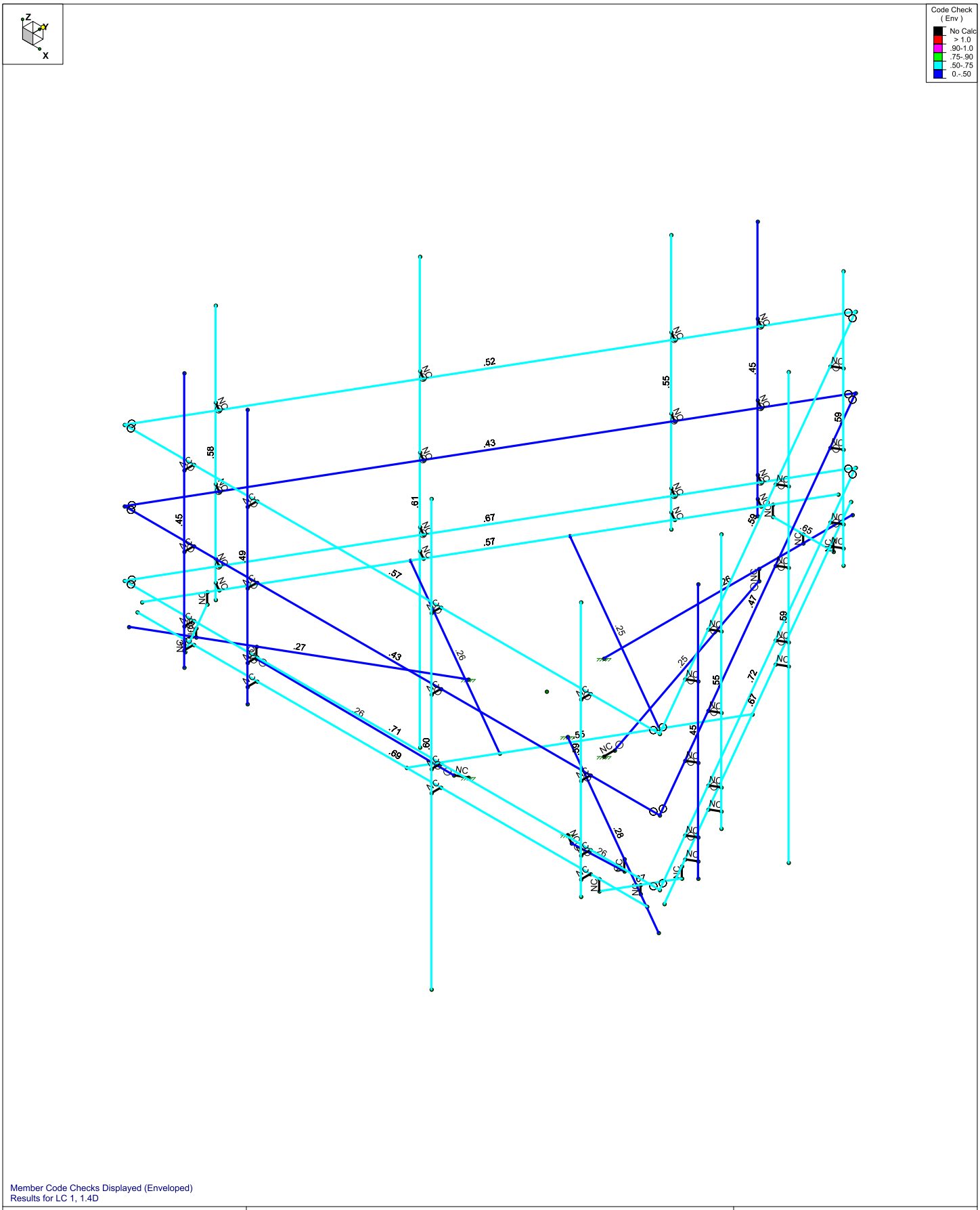
Loads: LC 8, 1.2D + 1.0W(60)

POD	806369	SK - 7
IM		Apr 19, 2022 at 11:25 AM
22-126971		806369 - MOD.R3D



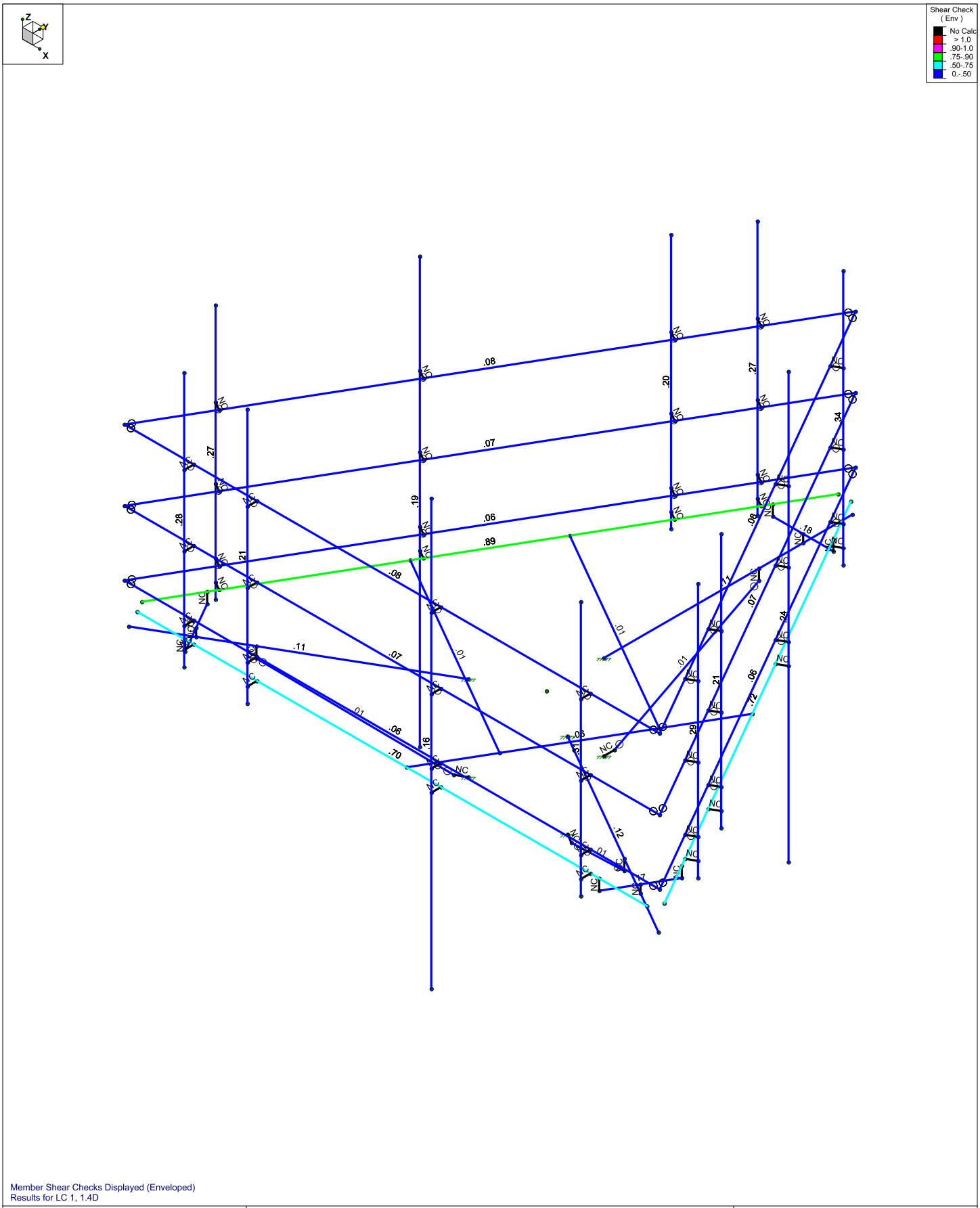
Loads: LC 11, 1.2D + 1.0W(90)

POD	806369	SK - 8
IM		Apr 19, 2022 at 11:25 AM
22-126971		806369 - MOD.R3D



Member Code Checks Displayed (Enveloped)
Results for LC 1, 1.4D

POD	806369	SK - 9
IM		Apr 19, 2022 at 11:25 AM
22-126971		806369 - MOD.R3D



Member Shear Checks Displayed (Enveloped)
Results for LC 1, 1.4D

POD	806369	SK - 10
IM		Apr 19, 2022 at 11:25 AM
22-126971		806369 - MOD.R3D

APPENDIX B

Software Input Calculations

POD
POWER OF DESIGN

POD Job #	**22-126971**
Site Number	**806369**
Site Name	**HRT 094 943225**

General Site Information

Mount Type	SFP	Risk Category	II	I (seismic)	1			Use CFD	Yes
V (Wind Speed)	125	I(ice)	1	Sms	0.298				
Zs	64			Sm1	0.132				width (ft) height (ft)
ti	1.5	Ss	0.186	Sds	0.198			Front Outer Dimensions	12.5 3.67
Vi	50	S1	0.055	Sd1	0.088				
Kzt	1	Soil Site Class	D (assumed)	Seismic Design Category	B				
Exposure	B	Fa	1.600						
zg	1200	Fv	2.400	Seismic Analysis Not Required					
α	7			R	2	TIA-222-H 16.7			
Kmin	0.7	Tower Type	Monopole	As	1	TIA-222-H 16.7			
G_H	1	Tower Height	140	Cs, Min	0.03	TIA-222-H 2.7.7.1.1			
Ke	1.00			Cs	0.0992	TIA-222-H 2.7.7.1.1			
K_D	0.95								
K_a	0.9								

Appurtenance Information

Model	Shielded	% Shielded	Centerline	Centerline on MP	Spacing (in)	Azimuth	Sector	Quantity	MP #
VV-65A-R1_TMO			128	4	40	10	A/C	1	3
AIR 6419 B41_TMO			128	4	20	10	A/C	1	1
APXVAARR24_43-U-NA20			128	5.5	80	10	A/C	1	2
VV-65A-R1_TMO			128	4	40	-10	B	1	3
AIR 6419 B41_TMO			128	4	20	-10	B	1	1
APXVAARR24_43-U-NA20			128	5.5	80	-10	B	1	2
RADIO 4449 B71 B85A_T-MOBILE			128	5.5	80		A/B/C	1	2
RADIO 4460 B2/B25 B66_TMO			128	5.5	80		A/B/C	1	2

Mount Information

Elevation (ft)	126	Grating Thickness (in)	1
K_z	1.06	Grating Ice Weight (k/ft²)	0.020
Kiz	1.14		
tiz	1.72		

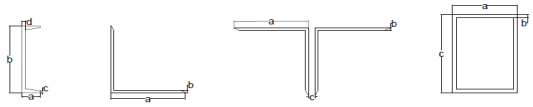
	Length (ft)	Width (in)	Centerline
Mount Pipes	10	2.875	128

Round Members

Member	Length (ft)	Width (in)		Frame Member	# of Members

Flat Members

Member	Length (ft)	Width (in)	Shape	A	B	C	D		Frame Member	# of Members
FACE ON	12	5	Channel	2	5	0.375	0.375		Yes	2
FACE OFF	12	5	Channel	2	5	0.375	0.375		No	1
RAIL ON	12.59	3	Angle	3	0.25				Yes	6
RAIL OFF	12.59	3	Angle	3	0.25				No	3
SO	5.85	4	Square HSS	4	0.25	4			No	3
PLATE	1.4	0.5	Channel		0.5		9		No	3
SUP	5.7	4	Angle	3	0.25				No	2
CORNER	5.9	4	Channel	1.5	4	0.375	0.375		No	1
KICKER MOD	3.824	2.5	D. Angle	2.5	0.1875	0.1875			No	3



Version 3.54

Appurtenance Wind Calculations

Model	Height	Width	Depth	Weight (lbs)	Kz	qz (lb/ft$_2$)	$(EPA)_N$ (ft^2)	$(EPA)_T$(ft^2)	Wind Force (Kips) Front	Side	Alpha	Beta	Gamma
VV-65A-R1_TMO	54.7	12.0	4.6	33.3	1.06	40.20	4.48	1.74	0.180	0.070	0.167	0.167	0.073
AIR 6419 B41_TMO	36.3	20.9	9.0	96.5	1.06	40.20	7.00	2.83	0.281	0.114	0.262	0.262	0.119
APXVAARR24_43-U-NA20	95.9	24.0	8.7	153.3	1.06	40.20	14.67	5.32	0.590	0.214	0.546	0.546	0.225
VV-65A-R1_TMO	54.7	12.0	4.6	33.3	1.06	40.20	4.48	1.74	0.180	0.070	0.135	0.135	0.073
AIR 6419 B41_TMO	36.3	20.9	9.0	96.5	1.06	40.20	7.00	2.83	0.281	0.114	0.212	0.212	0.119
APXVAARR24_43-U-NA20	95.9	24.0	8.7	153.3	1.06	40.20	14.67	5.32	0.590	0.214	0.434	0.434	0.225
RADIO 4449 B71 B85A_T-Mo	17.9	13.2	10.6	73.2	1.06	40.20	1.77	1.43	0.071	0.057	0.068	0.068	0.057
RADIO 4460 B2/B25 B66_TA	17.0	15.1	11.9	109.0	1.06	40.20	1.93	1.52	0.077	0.061	0.073	0.073	0.061

Appurtenance Ice Calculations

Model	tiz (in)	Height	Width	Depth	Weight (lbs)	Kiz	qz (lb/ft$_2$)	$(EPA)_N$ (ft^2)	$(EPA)_T$(ft^2)	Wind Force (Kips) Front	Side	Alpha	Beta	Gamma
VV-65A-R1_TMO	1.72	58.14	15.44	8.04	135.83	1.15	6.43	5.52	2.89	0.035	0.019	0.036	0.036	0.020
AIR 6419 B41_TMO	1.72	39.69	24.35	12.46	168.42	1.15	6.43	8.01	3.90	0.051	0.025	0.052	0.052	0.027
APXVAARR24_43-U-NA20	1.72	99.34	27.44	12.14	422.89	1.15	6.43	15.63	6.91	0.101	0.044	0.100	0.100	0.048
VV-65A-R1_TMO	1.72	58.14	15.44	8.04	135.83	1.15	6.43	5.52	2.89	0.035	0.019	0.025	0.025	0.020
AIR 6419 B41_TMO	1.72	39.69	24.35	12.46	168.42	1.15	6.43	8.01	3.90	0.051	0.025	0.036	0.036	0.027
APXVAARR24_43-U-NA20	1.72	99.34	27.44	12.14	422.89	1.15	6.43	15.63	6.91	0.101	0.044	0.070	0.070	0.048
RADIO 4449 B71 B85A_T-Mo	1.72	21.35	16.64	14.07	80.42	1.15	6.43	1.56	1.32	0.010	0.008	0.010	0.010	0.008
RADIO 4460 B2/B25 B66_TA	1.72	20.44	18.54	15.34	89.25	1.15	6.43	1.66	1.37	0.011	0.009	0.010	0.010	0.009

Round Members

Member	q_z (lb/ft^2)	Ar	C	Wind Calculations Rr	Cf	EPA (ft^2)	Load (k/ft)	Width (in)	Weight (k/ft)	Ice Calculations q_z (lb/ft^2)	Arice	Rrice	Cf	EPA (ft^2)	Load (k/ft)

Flat Members

Member	q_z (lb/ft^2)	Af	Wind Calculations Cf	EPA	Load (k/ft)	Width (in)	Weight (k/ft)	Ice Calculations q_z (lb/ft^2)	Arice	Rrice	Cf	EPA	Load (k/ft)
FACE ON	40.02	10.00	1.79	8.05	0.027	8.43	0.02	6.40	16.86	1.00	1.79	13.57	0.007
FACE OFF	40.02	5.00	2.00	9.00	0.015	8.43	0.02	6.40	8.43	1.00	2.00	15.17	0.004
RAIL ON	40.02	18.89	1.79	5.07	0.016	6.43	0.01	6.40	40.48	1.00	1.79	10.86	0.006
RAIL OFF	40.02	9.44	2.00	5.67	0.009	6.43	0.01	6.40	20.24	1.00	2.00	12.14	0.003
SO	40.02	5.85	1.25	2.19	0.008	7.43	0.02	6.40	10.87	1.00	1.25	4.07	0.002
PLATE	40.02	0.18	2.00	0.11	0.002	3.93	0.02	6.40	1.38	1.00	2.00	0.83	0.002
SUP	40.02	3.80	2.00	3.42	0.012	7.43	0.01	6.40	7.06	1.00	2.00	6.35	0.004
CORNER	40.02	1.97	2.00	3.54	0.012	7.43	0.01	6.40	3.65	1.00	2.00	6.58	0.004
KICKER MOD	40.02	2.39	2.00	1.43	0.008	5.93	0.02	6.40	5.67	1.00	2.00	3.40	0.003

Appurtenance Seismic Calculations

Model	Weight	Sds	ρ	Cs	As	Ev	Eh
VV-65A-R1_TMO	33.3	0.198	1.000	0.099	1.000	0.001	0.003
AIR 6419 B41_TMO	96.5	0.198	1.000	0.099	1.000	0.004	0.010
APXVAARR24_43-U-NA20	153.3	0.198	1.000	0.099	1.000	0.006	0.015
VV-65A-R1_TMO	33.3	0.198	1.000	0.099	1.000	0.001	0.003
AIR 6419 B41_TMO	96.5	0.198	1.000	0.099	1.000	0.004	0.010
APXVAARR24_43-U-NA20	153.3	0.198	1.000	0.099	1.000	0.006	0.015
RADIO 4449 B71 B85A_T-Mo	73.2	0.198	1.000	0.099	1.000	0.003	0.007
RADIO 4460 B2/B25 B66_TA	109.0	0.198	1.000	0.099	1.000	0.004	0.011

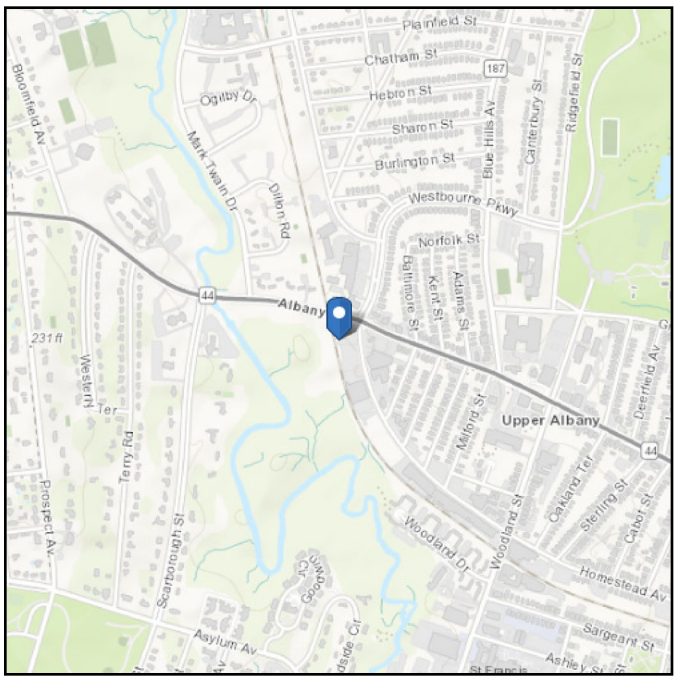
Version 3.54

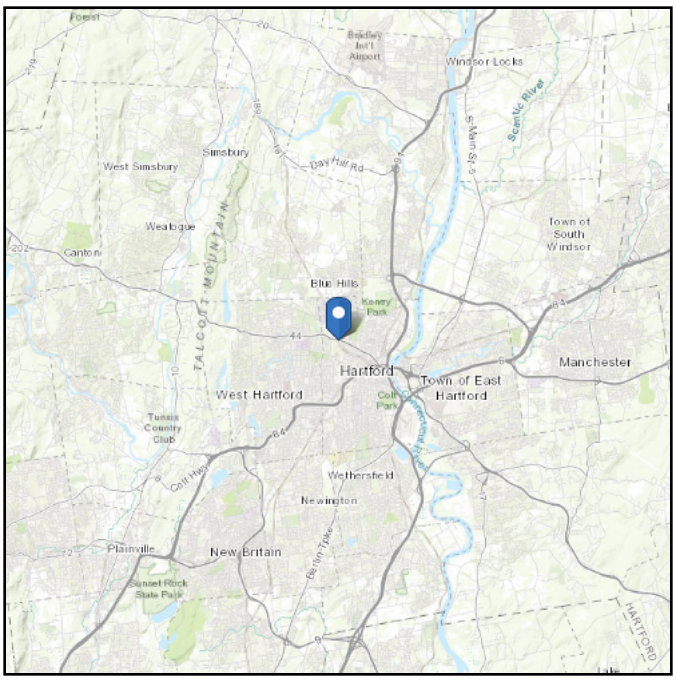
ASCE 7 Hazards Report

Address:
No Address at This Location

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

Elevation: 60.06 ft (NAVD 88)
Latitude: 41.783781
Longitude: -72.703794





Wind

Results:

Wind Speed	Vmph
10-year MRI	75 Vmph
25-year MRI	84 Vmph
50-year MRI	90 Vmph
100-year MRI	97 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: Tue Apr 19 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.

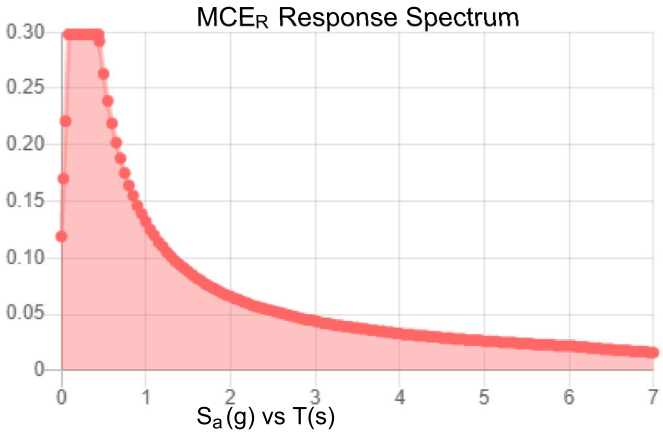
Seismic

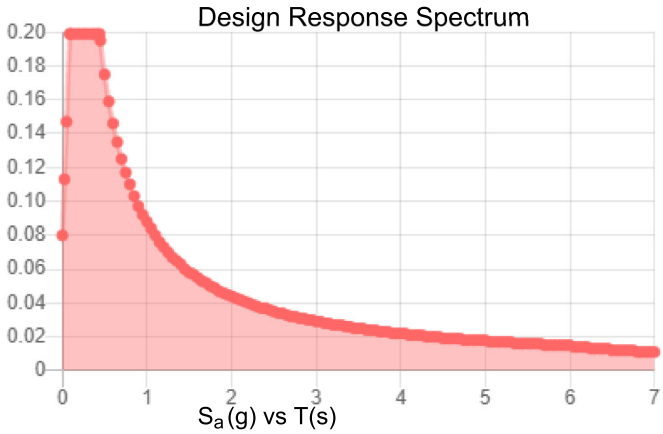
Site Soil Class: D - Default (see Section 11.4.3)

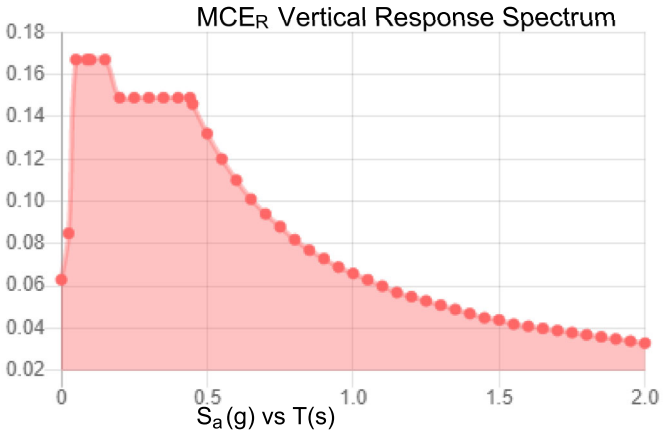
Results:

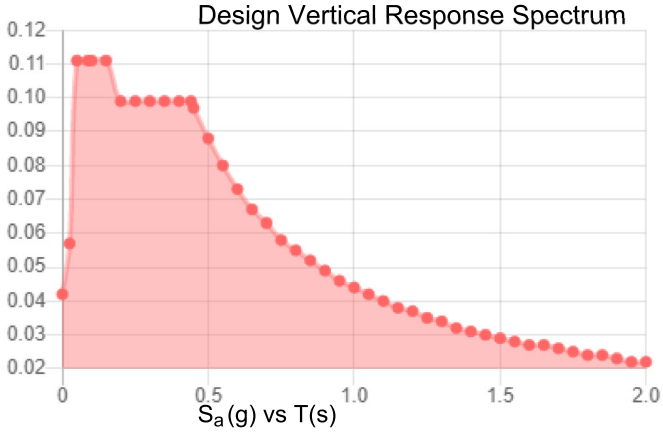
S_S :	0.186	S_{D1} :	0.088
S_1 :	0.055	T_L :	6
F_a :	1.6	PGA :	0.1
F_v :	2.4	PGA_M :	0.16
S_{MS} :	0.298	F_{PGA} :	1.6
S_{M1} :	0.132	I_e :	1
S_{DS} :	0.199	C_v :	0.7

Seismic Design Category B









Data Accessed: **Tue Apr 19 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:	1.50 in.
Concurrent Temperature:	5 F
Gust Speed	50 mph
Data Source:	Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8
Date Accessed:	Tue Apr 19 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.

APPENDIX C

Software Analysis Output

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate...	Section/Shape	Type	Design List	Material	Design ...
1	SUP2	N74A	N69B		270	L4X3X4	Beam	Single Angle	A36 Gr.36	Typical
2	SUP1	N70B	N73A		90	L4X3X4	Beam	Single Angle	A36 Gr.36	Typical
3	SO3	N18	N17			HSS4X4X4	Beam	SquareTube	A500 Gr.B R...	Typical
4	SO2	N78	N77			HSS4X4X4	Beam	SquareTube	A500 Gr.B R...	Typical
5	SO1	N48	N47			HSS4X4X4	Beam	SquareTube	A500 Gr.B R...	Typical
6	RAIL3c	N74	N72		90	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical
7	RAIL3b	N65	N63		90	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical
8	RAIL3a	N68	N68A		90	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical
9	RAIL2c	N72	N73		90	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical
10	RAIL2b	N63	N64		90	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical
11	RAIL2a	N68A	N66		90	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical
12	RAIL1c	N73	N74		270	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical
13	RAIL1b	N64	N65		270	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical
14	RAIL1a	N66	N68		270	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical
15	PLATE3	N75	N76			9x0.5	Beam	RECT	A36 Gr.36	Typical
16	PLATE2	N45	N46			9x0.5	Beam	RECT	A36 Gr.36	Typical
17	PLATE1	N15	N16			9x0.5	Beam	RECT	A36 Gr.36	Typical
18	MP GAMMA4	N90	N87			PIPE_2.5	Beam	Pipe	A53 Gr.B	Typical
19	MP GAMMA3	N115	N114			PIPE_2.5	Beam	Pipe	A53 Gr.B	Typical
20	MP GAMMA2	N92	N89			PIPE_2.5	Beam	Pipe	A53 Gr.B	Typical
21	MP GAMMA1	N91	N88			PIPE_2.5	Beam	Pipe	A53 Gr.B	Typical
22	MP BETA4	N131	N128			PIPE_2.5	Beam	Pipe	A53 Gr.B	Typical
23	MP BETA3	N156	N155			PIPE_2.5	Beam	Pipe	A53 Gr.B	Typical
24	MP BETA2	N133	N130			PIPE_2.5	Beam	Pipe	A53 Gr.B	Typical
25	MP BETA1	N132	N129			PIPE_2.5	Beam	Pipe	A53 Gr.B	Typical
26	MP ALPHA4	N33	N29A			PIPE_2.5	Beam	Pipe	A53 Gr.B	Typical
27	MP ALPHA3	N74B	N73B			PIPE_2.5	Beam	Pipe	A53 Gr.B	Typical
28	MP ALPHA2	N36	N32			PIPE_2.5	Beam	Pipe	A53 Gr.B	Typical
29	MP ALPHA1	N34	N30			PIPE_2.5	Beam	Pipe	A53 Gr.B	Typical
30	M98	N178	N180		120	RIGID	None	None	RIGID	Typical
31	M97	N177	N179			RIGID	None	None	RIGID	Typical
32	M95	N173	N175		240	RIGID	None	None	RIGID	Typical
33	M94	N172	N174		180	RIGID	None	None	RIGID	Typical
34	M92	N168	N170			RIGID	None	None	RIGID	Typical
35	M91	N167	N169			RIGID	None	None	RIGID	Typical
36	M90	N46	N164			RIGID	None	None	RIGID	Typical
37	M89	N45	N163			RIGID	None	None	RIGID	Typical
38	M88	N75	N165			RIGID	None	None	RIGID	Typical
39	M87	N76	N166			RIGID	None	None	RIGID	Typical
40	M86	N16	N162A			RIGID	None	None	RIGID	Typical
41	M85	N15	N161A			RIGID	None	None	RIGID	Typical
42	M84	N162	N161			RIGID	None	None	RIGID	Typical
43	M83	N160	N159			RIGID	None	None	RIGID	Typical
44	M82	N158	N157			RIGID	None	None	RIGID	Typical
45	M81	N153	N154			RIGID	None	None	RIGID	Typical
46	M79	N150	N147			RIGID	None	None	RIGID	Typical
47	M78	N151	N148			RIGID	None	None	RIGID	Typical
48	M77	N152	N149			RIGID	None	None	RIGID	Typical
49	M76	N144	N141			RIGID	None	None	RIGID	Typical
50	M75	N145	N142			RIGID	None	None	RIGID	Typical
51	M74	N146	N143			RIGID	None	None	RIGID	Typical
52	M73	N138	N134			RIGID	None	None	RIGID	Typical
53	M72	N139	N135			RIGID	None	None	RIGID	Typical
54	M71	N140	N136			RIGID	None	None	RIGID	Typical
55	M70	N122	N123A			RIGID	None	None	RIGID	Typical
56	M69A	N124	N125			RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate...	Section/Shape	Type	Design List	Material	Design ...
57	M69	N119B	N110			RIGID	None	None	RIGID	Typical
58	M68A	N126	N127			RIGID	None	None	RIGID	Typical
59	M68	N121A	N112			RIGID	None	None	RIGID	Typical
60	M67	N123	N116			RIGID	None	None	RIGID	Typical
61	M64	N121	N120			RIGID	None	None	RIGID	Typical
62	M63	N119	N118			RIGID	None	None	RIGID	Typical
63	M62	N117	N116A			RIGID	None	None	RIGID	Typical
64	M61	N112B	N113			RIGID	None	None	RIGID	Typical
65	M59	N109	N106			RIGID	None	None	RIGID	Typical
66	M58	N110A	N107			RIGID	None	None	RIGID	Typical
67	M57	N111	N108			RIGID	None	None	RIGID	Typical
68	M56	N103	N100A			RIGID	None	None	RIGID	Typical
69	M55	N104	N101A			RIGID	None	None	RIGID	Typical
70	M54	N105	N102A			RIGID	None	None	RIGID	Typical
71	M53	N97A	N93			RIGID	None	None	RIGID	Typical
72	M52	N98A	N94			RIGID	None	None	RIGID	Typical
73	M51	N99A	N95			RIGID	None	None	RIGID	Typical
74	M50	N81	N82			RIGID	None	None	RIGID	Typical
75	M49	N83	N84			RIGID	None	None	RIGID	Typical
76	M48	N85	N86			RIGID	None	None	RIGID	Typical
77	M44A	N80	N79			RIGID	None	None	RIGID	Typical
78	M44	N69	N66A			RIGID	None	None	RIGID	Typical
79	M43A	N78A	N77A			RIGID	None	None	RIGID	Typical
80	M43	N70	N67			RIGID	None	None	RIGID	Typical
81	M42A	N76A	N75A			RIGID	None	None	RIGID	Typical
82	M42	N71	N68B			RIGID	None	None	RIGID	Typical
83	M41	N71A	N72A			RIGID	None	None	RIGID	Typical
84	M38	N60	N57			RIGID	None	None	RIGID	Typical
85	M37	N61	N58			RIGID	None	None	RIGID	Typical
86	M36	N62	N59			RIGID	None	None	RIGID	Typical
87	KICKER3	N169	N170		180	LL2.5x2.5x3x3	Beam	Double Angle (3/8 Gap)	A36 Gr.36	Typical
88	KICKER2	N179	N180		75.985	LL2.5x2.5x3x3	Beam	Double Angle (3/8 Gap)	A36 Gr.36	Typical
89	KICKER1	N174	N175		284.015	LL2.5x2.5x3x3	Beam	Double Angle (3/8 Gap)	A36 Gr.36	Typical
90	FACE3	N3	N4		90	C5X9	Beam	Channel	A36 Gr.36	Typical
91	FACE2	N5	N6		90	C5X9	Beam	Channel	A36 Gr.36	Typical
92	FACE1	N1	N2		270	C5X9	Beam	Channel	A36 Gr.36	Typical
93	CORNER	N70A	N69A		270	C4X4.5	Beam	Channel	A36 Gr.36	Typical
94	19	N101	N102			RIGID	None	None	RIGID	Typical
95	18	N99	N100			RIGID	None	None	RIGID	Typical
96	17	N97	N98			RIGID	None	None	RIGID	Typical
97	3	N13	N14			RIGID	None	None	RIGID	Typical
98	2	N9	N10			RIGID	None	None	RIGID	Typical
99	1	N7	N8			RIGID	None	None	RIGID	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	SUP2						Yes				None
2	SUP1						Yes				None
3	SO3						Yes				None
4	SO2						Yes				None
5	SO1						Yes				None
6	RAIL3c	OOOOXO	OOOOXO				Yes	Default			None
7	RAIL3b	OOOOXO	OOOOXO				Yes	Default			None
8	RAIL3a	OOOOXO	OOOOXO				Yes	Default			None
9	RAIL2c	OOOOXO	OOOOXO				Yes	Default			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
10	RAIL2b	OOOOXO	OOOOXO				Yes	Default			None
11	RAIL2a	OOOOXO	OOOOXO				Yes	Default			None
12	RAIL1c	OOOOXO	OOOOXO				Yes	Default			None
13	RAIL1b	OOOOXO	OOOOXO				Yes	Default			None
14	RAIL1a	OOOOXO	OOOOXO				Yes	Default			None
15	PLATE3						Yes	Default			None
16	PLATE2						Yes	Default			None
17	PLATE1						Yes	Default			None
18	MP GAMM...						Yes				None
19	MP GAMM...						Yes				None
20	MP GAMM...						Yes				None
21	MP GAMM...						Yes				None
22	MP BETA4						Yes				None
23	MP BETA3						Yes				None
24	MP BETA2						Yes				None
25	MP BETA1						Yes				None
26	MP ALPHA4						Yes				None
27	MP ALPHA3						Yes				None
28	MP ALPHA2						Yes				None
29	MP ALPHA1						Yes				None
30	M98						Yes	** NA **			None
31	M97						Yes	** NA **			None
32	M95						Yes	** NA **			None
33	M94						Yes	** NA **			None
34	M92						Yes	** NA **			None
35	M91						Yes	** NA **			None
36	M90						Yes	** NA **			None
37	M89						Yes	** NA **			None
38	M88						Yes	** NA **			None
39	M87						Yes	** NA **			None
40	M86						Yes	** NA **			None
41	M85						Yes	** NA **			None
42	M84		OOOXOO				Yes	** NA **			None
43	M83		OOOXOO				Yes	** NA **			None
44	M82		OOOXOO				Yes	** NA **			None
45	M81						Yes	** NA **			None
46	M79		OOOXOO				Yes	** NA **			None
47	M78		OOOXOO				Yes	** NA **			None
48	M77		OOOXOO				Yes	** NA **			None
49	M76		OOOXOO				Yes	** NA **			None
50	M75		OOOXOO				Yes	** NA **			None
51	M74		OOOXOO				Yes	** NA **			None
52	M73		OOOXOO				Yes	** NA **			None
53	M72		OOOXOO				Yes	** NA **			None
54	M71		OOOXOO				Yes	** NA **			None
55	M70						Yes	** NA **			None
56	M69A						Yes	** NA **			None
57	M69		OOOXOO				Yes	** NA **			None
58	M68A						Yes	** NA **			None
59	M68		OOOXOO				Yes	** NA **			None
60	M67		OOOXOO				Yes	** NA **			None
61	M64		OOOXOO				Yes	** NA **			None
62	M63		OOOXOO				Yes	** NA **			None
63	M62		OOOXOO				Yes	** NA **			None
64	M61						Yes	** NA **			None
65	M59		OOOXOO				Yes	** NA **			None
66	M58		OOOXOO				Yes	** NA **			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
67	M57		OOOXOO				Yes	** NA **			None
68	M56		OOOXOO				Yes	** NA **			None
69	M55		OOOXOO				Yes	** NA **			None
70	M54		OOOXOO				Yes	** NA **			None
71	M53		OOOXOO				Yes	** NA **			None
72	M52		OOOXOO				Yes	** NA **			None
73	M51		OOOXOO				Yes	** NA **			None
74	M50						Yes	** NA **			None
75	M49						Yes	** NA **			None
76	M48						Yes	** NA **			None
77	M44A		OOOXOO				Yes	** NA **			None
78	M44		OOOXOO				Yes	** NA **			None
79	M43A		OOOXOO				Yes	** NA **			None
80	M43		OOOXOO				Yes	** NA **			None
81	M42A		OOOXOO				Yes	** NA **			None
82	M42		OOOXOO				Yes	** NA **			None
83	M41						Yes	** NA **			None
84	M38		OOOXOO				Yes	** NA **			None
85	M37		OOOXOO				Yes	** NA **			None
86	M36		OOOXOO				Yes	** NA **			None
87	KICKER3	OOOOOX	OOOOOX				Yes	Default			None
88	KICKER2	OOOOOX	OOOOOX				Yes	Default			None
89	KICKER1	OOOOOX	OOOOOX				Yes	Default			None
90	FACE3						Yes				None
91	FACE2						Yes				None
92	FACE1						Yes	Default			None
93	CORNER						Yes	Default			None
94	19						Yes	** NA **			None
95	18						Yes	** NA **			None
96	17						Yes	** NA **			None
97	3						Yes	** NA **			None
98	2						Yes	** NA **			None
99	1						Yes	** NA **			None

Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torq...	Kyy	Kzz	Cb	Functi...
1	SUP2	L4X3X4	5.752			Lbyy						Lateral
2	SUP1	L4X3X4	5.752			Lbyy						Lateral
3	SO3	HSS4X4X4	5.85			Lbyy						Lateral
4	SO2	HSS4X4X4	5.85			Lbyy						Lateral
5	SO1	HSS4X4X4	5.85			Lbyy						Lateral
6	RAIL3c	L3X3X4	12.599			Lbyy						Lateral
7	RAIL3b	L3X3X4	12.599			Lbyy						Lateral
8	RAIL3a	L3X3X4	12.599			Lbyy						Lateral
9	RAIL2c	L3X3X4	12.599			Lbyy						Lateral
10	RAIL2b	L3X3X4	12.599			Lbyy						Lateral
11	RAIL2a	L3X3X4	12.599			Lbyy						Lateral
12	RAIL1c	L3X3X4	12.599			Lbyy						Lateral
13	RAIL1b	L3X3X4	12.599			Lbyy						Lateral
14	RAIL1a	L3X3X4	12.599			Lbyy						Lateral
15	PLATE3	9x0.5	1.425			Lbyy						Lateral
16	PLATE2	9x0.5	1.425			Lbyy						Lateral
17	PLATE1	9x0.5	1.425			Lbyy						Lateral
18	MP GAMMA4	PIPE_2.5	6			Lbyy						Lateral
19	MP GAMMA3	PIPE_2.5	6			Lbyy						Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torq...	Kyy	Kzz	Cb	Functi...
20	MP GAMMA2	PIPE_2.5	10			Lbyy						Lateral
21	MP GAMMA1	PIPE_2.5	6			Lbyy						Lateral
22	MP BETA4	PIPE_2.5	6			Lbyy						Lateral
23	MP BETA3	PIPE_2.5	6			Lbyy						Lateral
24	MP BETA2	PIPE_2.5	10			Lbyy						Lateral
25	MP BETA1	PIPE_2.5	6			Lbyy						Lateral
26	MP ALPHA4	PIPE_2.5	6			Lbyy						Lateral
27	MP ALPHA3	PIPE_2.5	6			Lbyy						Lateral
28	MP ALPHA2	PIPE_2.5	10			Lbyy						Lateral
29	MP ALPHA1	PIPE_2.5	6			Lbyy						Lateral
30	KICKER3	LL2.5x2.5x...	3.824			Lbyy						Lateral
31	KICKER2	LL2.5x2.5x...	3.824			Lbyy						Lateral
32	KICKER1	LL2.5x2.5x...	3.824			Lbyy						Lateral
33	FACE3	C5X9	12			Lbyy						Lateral
34	FACE2	C5X9	12			Lbyy						Lateral
35	FACE1	C5X9	12			Lbyy						Lateral
36	CORNER	C4X4.5	5.957			Lbyy						Lateral

Hot Rolled Steel Properties

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

Member Point Loads (BLC 1 : Live Load)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	FACE1	Z	-.5	0

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.088	5.667
2	MP ALPHA3	Y	-.088	2.333
3	MP GAMMA3	Y	-.041	5.667
4	MP GAMMA3	Y	-.041	2.333
5	MP ALPHA1	Y	-.138	4.833
6	MP ALPHA1	Y	-.138	3.167
7	MP GAMMA1	Y	-.067	4.833
8	MP GAMMA1	Y	-.067	3.167
9	MP ALPHA2	Y	-.289	8.833
10	MP ALPHA2	Y	-.289	2.167
11	MP GAMMA2	Y	-.129	8.833
12	MP GAMMA2	Y	-.129	2.167
13	MP BETA3	Y	-.041	5.667
14	MP BETA3	Y	-.041	2.333
15	MP BETA1	Y	-.067	4.833
16	MP BETA1	Y	-.067	3.167
17	MP BETA2	Y	-.129	8.833
18	MP BETA2	Y	-.129	2.167

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
19	MP ALPHA2	Y	-.036	8.833
20	MP ALPHA2	Y	-.036	2.167
21	MP BETA2	Y	-.03	8.833
22	MP BETA2	Y	-.03	2.167
23	MP GAMMA2	Y	-.03	8.833
24	MP GAMMA2	Y	-.03	2.167
25	MP ALPHA2	Y	-.039	8.833
26	MP ALPHA2	Y	-.039	2.167
27	MP BETA2	Y	-.033	8.833
28	MP BETA2	Y	-.033	2.167
29	MP GAMMA2	Y	-.033	8.833
30	MP GAMMA2	Y	-.033	2.167

Member Point Loads (BLC 3 : Dead Load)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Z	-.017	5.667
2	MP ALPHA3	Z	-.017	2.333
3	MP GAMMA3	Z	-.017	5.667
4	MP GAMMA3	Z	-.017	2.333
5	MP ALPHA1	Z	-.048	4.833
6	MP ALPHA1	Z	-.048	3.167
7	MP GAMMA1	Z	-.048	4.833
8	MP GAMMA1	Z	-.048	3.167
9	MP ALPHA2	Z	-.077	8.833
10	MP ALPHA2	Z	-.077	2.167
11	MP GAMMA2	Z	-.077	8.833
12	MP GAMMA2	Z	-.077	2.167
13	MP BETA3	Z	-.017	5.667
14	MP BETA3	Z	-.017	2.333
15	MP BETA1	Z	-.048	4.833
16	MP BETA1	Z	-.048	3.167
17	MP BETA2	Z	-.077	8.833
18	MP BETA2	Z	-.077	2.167
19	MP ALPHA2	Z	-.037	8.833
20	MP ALPHA2	Z	-.037	2.167
21	MP BETA2	Z	-.037	8.833
22	MP BETA2	Z	-.037	2.167
23	MP GAMMA2	Z	-.037	8.833
24	MP GAMMA2	Z	-.037	2.167
25	MP ALPHA2	Z	-.054	8.833
26	MP ALPHA2	Z	-.054	2.167
27	MP BETA2	Z	-.054	8.833
28	MP BETA2	Z	-.054	2.167
29	MP GAMMA2	Z	-.054	8.833
30	MP GAMMA2	Z	-.054	2.167

Member Point Loads (BLC 4 : Wind Load (30))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.058	5.667
2	MP ALPHA3	Y	-.058	2.333
3	MP ALPHA3	X	-.034	5.667
4	MP ALPHA3	X	-.034	2.333
5	MP GAMMA3	Y	-.058	5.667
6	MP GAMMA3	Y	-.058	2.333
7	MP GAMMA3	X	-.034	5.667
8	MP GAMMA3	X	-.034	2.333

Member Point Loads (BLC 4 : Wind Load (30)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
9	MP ALPHA1	Y	-.092	4.833
10	MP ALPHA1	Y	-.092	3.167
11	MP ALPHA1	X	-.053	4.833
12	MP ALPHA1	X	-.053	3.167
13	MP GAMMA1	Y	-.092	4.833
14	MP GAMMA1	Y	-.092	3.167
15	MP GAMMA1	X	-.053	4.833
16	MP GAMMA1	X	-.053	3.167
17	MP ALPHA2	Y	-.188	8.833
18	MP ALPHA2	Y	-.188	2.167
19	MP ALPHA2	X	-.109	8.833
20	MP ALPHA2	X	-.109	2.167
21	MP GAMMA2	Y	-.188	8.833
22	MP GAMMA2	Y	-.188	2.167
23	MP GAMMA2	X	-.109	8.833
24	MP GAMMA2	X	-.109	2.167
25	MP BETA3	Y	-.032	5.667
26	MP BETA3	Y	-.032	2.333
27	MP BETA3	X	-.018	5.667
28	MP BETA3	X	-.018	2.333
29	MP BETA1	Y	-.051	4.833
30	MP BETA1	Y	-.051	3.167
31	MP BETA1	X	-.03	4.833
32	MP BETA1	X	-.03	3.167
33	MP BETA2	Y	-.098	8.833
34	MP BETA2	Y	-.098	2.167
35	MP BETA2	X	-.056	8.833
36	MP BETA2	X	-.056	2.167
37	MP ALPHA2	Y	-.029	8.833
38	MP ALPHA2	Y	-.029	2.167
39	MP ALPHA2	X	-.017	8.833
40	MP ALPHA2	X	-.017	2.167
41	MP BETA2	Y	-.025	8.833
42	MP BETA2	Y	-.025	2.167
43	MP BETA2	X	-.014	8.833
44	MP BETA2	X	-.014	2.167
45	MP GAMMA2	Y	-.029	8.833
46	MP GAMMA2	Y	-.029	2.167
47	MP GAMMA2	X	-.017	8.833
48	MP GAMMA2	X	-.017	2.167
49	MP ALPHA2	Y	-.032	8.833
50	MP ALPHA2	Y	-.032	2.167
51	MP ALPHA2	X	-.018	8.833
52	MP ALPHA2	X	-.018	2.167
53	MP BETA2	Y	-.026	8.833
54	MP BETA2	Y	-.026	2.167
55	MP BETA2	X	-.015	8.833
56	MP BETA2	X	-.015	2.167
57	MP GAMMA2	Y	-.032	8.833
58	MP GAMMA2	Y	-.032	2.167
59	MP GAMMA2	X	-.018	8.833
60	MP GAMMA2	X	-.018	2.167

Member Point Loads (BLC 5 : Wind Load (60))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.021	5.667

Member Point Loads (BLC 5 : Wind Load (60)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
2	MP ALPHA3	Y	-.021	2.333
3	MP ALPHA3	X	-.036	5.667
4	MP ALPHA3	X	-.036	2.333
5	MP GAMMA3	Y	-.044	5.667
6	MP GAMMA3	Y	-.044	2.333
7	MP GAMMA3	X	-.077	5.667
8	MP GAMMA3	X	-.077	2.333
9	MP ALPHA1	Y	-.033	4.833
10	MP ALPHA1	Y	-.033	3.167
11	MP ALPHA1	X	-.058	4.833
12	MP ALPHA1	X	-.058	3.167
13	MP GAMMA1	Y	-.069	4.833
14	MP GAMMA1	Y	-.069	3.167
15	MP GAMMA1	X	-.12	4.833
16	MP GAMMA1	X	-.12	3.167
17	MP ALPHA2	Y	-.064	8.833
18	MP ALPHA2	Y	-.064	2.167
19	MP ALPHA2	X	-.112	8.833
20	MP ALPHA2	X	-.112	2.167
21	MP GAMMA2	Y	-.145	8.833
22	MP GAMMA2	Y	-.145	2.167
23	MP GAMMA2	X	-.25	8.833
24	MP GAMMA2	X	-.25	2.167
25	MP BETA3	Y	-.029	5.667
26	MP BETA3	Y	-.029	2.333
27	MP BETA3	X	-.05	5.667
28	MP BETA3	X	-.05	2.333
29	MP BETA1	Y	-.046	4.833
30	MP BETA1	Y	-.046	3.167
31	MP BETA1	X	-.079	4.833
32	MP BETA1	X	-.079	3.167
33	MP BETA2	Y	-.092	8.833
34	MP BETA2	Y	-.092	2.167
35	MP BETA2	X	-.16	8.833
36	MP BETA2	X	-.16	2.167
37	MP ALPHA2	Y	-.015	8.833
38	MP ALPHA2	Y	-.015	2.167
39	MP ALPHA2	X	-.026	8.833
40	MP ALPHA2	X	-.026	2.167
41	MP BETA2	Y	-.015	8.833
42	MP BETA2	Y	-.015	2.167
43	MP BETA2	X	-.026	8.833
44	MP BETA2	X	-.026	2.167
45	MP GAMMA2	Y	-.018	8.833
46	MP GAMMA2	Y	-.018	2.167
47	MP GAMMA2	X	-.031	8.833
48	MP GAMMA2	X	-.031	2.167
49	MP ALPHA2	Y	-.016	8.833
50	MP ALPHA2	Y	-.016	2.167
51	MP ALPHA2	X	-.028	8.833
52	MP ALPHA2	X	-.028	2.167
53	MP BETA2	Y	-.016	8.833
54	MP BETA2	Y	-.016	2.167
55	MP BETA2	X	-.028	8.833
56	MP BETA2	X	-.028	2.167
57	MP GAMMA2	Y	-.019	8.833
58	MP GAMMA2	Y	-.019	2.167

Member Point Loads (BLC 5 : Wind Load (60)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
59	MP GAMMA2	X	-.034	8.833
60	MP GAMMA2	X	-.034	2.167

Member Point Loads (BLC 6 : Wind Load (90))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	X	-.037	5.667
2	MP ALPHA3	X	-.037	2.333
3	MP GAMMA3	X	-.084	5.667
4	MP GAMMA3	X	-.084	2.333
5	MP ALPHA1	X	-.059	4.833
6	MP ALPHA1	X	-.059	3.167
7	MP GAMMA1	X	-.131	4.833
8	MP GAMMA1	X	-.131	3.167
9	MP ALPHA2	X	-.113	8.833
10	MP ALPHA2	X	-.113	2.167
11	MP GAMMA2	X	-.273	8.833
12	MP GAMMA2	X	-.273	2.167
13	MP BETA3	X	-.084	5.667
14	MP BETA3	X	-.084	2.333
15	MP BETA1	X	-.131	4.833
16	MP BETA1	X	-.131	3.167
17	MP BETA2	X	-.273	8.833
18	MP BETA2	X	-.273	2.167
19	MP ALPHA2	X	-.029	8.833
20	MP ALPHA2	X	-.029	2.167
21	MP BETA2	X	-.034	8.833
22	MP BETA2	X	-.034	2.167
23	MP GAMMA2	X	-.034	8.833
24	MP GAMMA2	X	-.034	2.167
25	MP ALPHA2	X	-.03	8.833
26	MP ALPHA2	X	-.03	2.167
27	MP BETA2	X	-.037	8.833
28	MP BETA2	X	-.037	2.167
29	MP GAMMA2	X	-.037	8.833
30	MP GAMMA2	X	-.037	2.167

Member Point Loads (BLC 7 : Wind Load (120))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.029	5.667
2	MP ALPHA3	Y	.029	2.333
3	MP ALPHA3	X	-.05	5.667
4	MP ALPHA3	X	-.05	2.333
5	MP GAMMA3	Y	.029	5.667
6	MP GAMMA3	Y	.029	2.333
7	MP GAMMA3	X	-.05	5.667
8	MP GAMMA3	X	-.05	2.333
9	MP ALPHA1	Y	.046	4.833
10	MP ALPHA1	Y	.046	3.167
11	MP ALPHA1	X	-.079	4.833
12	MP ALPHA1	X	-.079	3.167
13	MP GAMMA1	Y	.046	4.833
14	MP GAMMA1	Y	.046	3.167
15	MP GAMMA1	X	-.079	4.833
16	MP GAMMA1	X	-.079	3.167
17	MP ALPHA2	Y	.092	8.833
18	MP ALPHA2	Y	.092	2.167

Member Point Loads (BLC 7 : Wind Load (120)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
19	MP ALPHA2	X	-.16	8.833
20	MP ALPHA2	X	-.16	2.167
21	MP GAMMA2	Y	.092	8.833
22	MP GAMMA2	Y	.092	2.167
23	MP GAMMA2	X	-.16	8.833
24	MP GAMMA2	X	-.16	2.167
25	MP BETA3	Y	.044	5.667
26	MP BETA3	Y	.044	2.333
27	MP BETA3	X	-.077	5.667
28	MP BETA3	X	-.077	2.333
29	MP BETA1	Y	.069	4.833
30	MP BETA1	Y	.069	3.167
31	MP BETA1	X	-.12	4.833
32	MP BETA1	X	-.12	3.167
33	MP BETA2	Y	.145	8.833
34	MP BETA2	Y	.145	2.167
35	MP BETA2	X	-.25	8.833
36	MP BETA2	X	-.25	2.167
37	MP ALPHA2	Y	.015	8.833
38	MP ALPHA2	Y	.015	2.167
39	MP ALPHA2	X	-.026	8.833
40	MP ALPHA2	X	-.026	2.167
41	MP BETA2	Y	.018	8.833
42	MP BETA2	Y	.018	2.167
43	MP BETA2	X	-.031	8.833
44	MP BETA2	X	-.031	2.167
45	MP GAMMA2	Y	.015	8.833
46	MP GAMMA2	Y	.015	2.167
47	MP GAMMA2	X	-.026	8.833
48	MP GAMMA2	X	-.026	2.167
49	MP ALPHA2	Y	.016	8.833
50	MP ALPHA2	Y	.016	2.167
51	MP ALPHA2	X	-.028	8.833
52	MP ALPHA2	X	-.028	2.167
53	MP BETA2	Y	.019	8.833
54	MP BETA2	Y	.019	2.167
55	MP BETA2	X	-.034	8.833
56	MP BETA2	X	-.034	2.167
57	MP GAMMA2	Y	.016	8.833
58	MP GAMMA2	Y	.016	2.167
59	MP GAMMA2	X	-.028	8.833
60	MP GAMMA2	X	-.028	2.167

Member Point Loads (BLC 8 : Wind Load (150))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.072	5.667
2	MP ALPHA3	Y	.072	2.333
3	MP ALPHA3	X	-.042	5.667
4	MP ALPHA3	X	-.042	2.333
5	MP GAMMA3	Y	.032	5.667
6	MP GAMMA3	Y	.032	2.333
7	MP GAMMA3	X	-.018	5.667
8	MP GAMMA3	X	-.018	2.333
9	MP ALPHA1	Y	.113	4.833
10	MP ALPHA1	Y	.113	3.167
11	MP ALPHA1	X	-.065	4.833

Member Point Loads (BLC 8 : Wind Load (150)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
12	MP ALPHA1	X	-.065	3.167
13	MP GAMMA1	Y	.051	4.833
14	MP GAMMA1	Y	.051	3.167
15	MP GAMMA1	X	-.03	4.833
16	MP GAMMA1	X	-.03	3.167
17	MP ALPHA2	Y	.236	8.833
18	MP ALPHA2	Y	.236	2.167
19	MP ALPHA2	X	-.136	8.833
20	MP ALPHA2	X	-.136	2.167
21	MP GAMMA2	Y	.098	8.833
22	MP GAMMA2	Y	.098	2.167
23	MP GAMMA2	X	-.056	8.833
24	MP GAMMA2	X	-.056	2.167
25	MP BETA3	Y	.058	5.667
26	MP BETA3	Y	.058	2.333
27	MP BETA3	X	-.034	5.667
28	MP BETA3	X	-.034	2.333
29	MP BETA1	Y	.092	4.833
30	MP BETA1	Y	.092	3.167
31	MP BETA1	X	-.053	4.833
32	MP BETA1	X	-.053	3.167
33	MP BETA2	Y	.188	8.833
34	MP BETA2	Y	.188	2.167
35	MP BETA2	X	-.109	8.833
36	MP BETA2	X	-.109	2.167
37	MP ALPHA2	Y	.029	8.833
38	MP ALPHA2	Y	.029	2.167
39	MP ALPHA2	X	-.017	8.833
40	MP ALPHA2	X	-.017	2.167
41	MP BETA2	Y	.029	8.833
42	MP BETA2	Y	.029	2.167
43	MP BETA2	X	-.017	8.833
44	MP BETA2	X	-.017	2.167
45	MP GAMMA2	Y	.025	8.833
46	MP GAMMA2	Y	.025	2.167
47	MP GAMMA2	X	-.014	8.833
48	MP GAMMA2	X	-.014	2.167
49	MP ALPHA2	Y	.032	8.833
50	MP ALPHA2	Y	.032	2.167
51	MP ALPHA2	X	-.018	8.833
52	MP ALPHA2	X	-.018	2.167
53	MP BETA2	Y	.032	8.833
54	MP BETA2	Y	.032	2.167
55	MP BETA2	X	-.018	8.833
56	MP BETA2	X	-.018	2.167
57	MP GAMMA2	Y	.026	8.833
58	MP GAMMA2	Y	.026	2.167
59	MP GAMMA2	X	-.015	8.833
60	MP GAMMA2	X	-.015	2.167

Member Point Loads (BLC 9 : Wind Load (180))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.088	5.667
2	MP ALPHA3	Y	.088	2.333
3	MP GAMMA3	Y	.041	5.667
4	MP GAMMA3	Y	.041	2.333

Member Point Loads (BLC 9 : Wind Load (180)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
5	MP ALPHA1	Y	.138	4.833
6	MP ALPHA1	Y	.138	3.167
7	MP GAMMA1	Y	.067	4.833
8	MP GAMMA1	Y	.067	3.167
9	MP ALPHA2	Y	.289	8.833
10	MP ALPHA2	Y	.289	2.167
11	MP GAMMA2	Y	.129	8.833
12	MP GAMMA2	Y	.129	2.167
13	MP BETA3	Y	.041	5.667
14	MP BETA3	Y	.041	2.333
15	MP BETA1	Y	.067	4.833
16	MP BETA1	Y	.067	3.167
17	MP BETA2	Y	.129	8.833
18	MP BETA2	Y	.129	2.167
19	MP ALPHA2	Y	.036	8.833
20	MP ALPHA2	Y	.036	2.167
21	MP BETA2	Y	.03	8.833
22	MP BETA2	Y	.03	2.167
23	MP GAMMA2	Y	.03	8.833
24	MP GAMMA2	Y	.03	2.167
25	MP ALPHA2	Y	.039	8.833
26	MP ALPHA2	Y	.039	2.167
27	MP BETA2	Y	.033	8.833
28	MP BETA2	Y	.033	2.167
29	MP GAMMA2	Y	.033	8.833
30	MP GAMMA2	Y	.033	2.167

Member Point Loads (BLC 10 : Wind Load (210))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.058	5.667
2	MP ALPHA3	Y	.058	2.333
3	MP ALPHA3	X	.034	5.667
4	MP ALPHA3	X	.034	2.333
5	MP GAMMA3	Y	.058	5.667
6	MP GAMMA3	Y	.058	2.333
7	MP GAMMA3	X	.034	5.667
8	MP GAMMA3	X	.034	2.333
9	MP ALPHA1	Y	.092	4.833
10	MP ALPHA1	Y	.092	3.167
11	MP ALPHA1	X	.053	4.833
12	MP ALPHA1	X	.053	3.167
13	MP GAMMA1	Y	.092	4.833
14	MP GAMMA1	Y	.092	3.167
15	MP GAMMA1	X	.053	4.833
16	MP GAMMA1	X	.053	3.167
17	MP ALPHA2	Y	.188	8.833
18	MP ALPHA2	Y	.188	2.167
19	MP ALPHA2	X	.109	8.833
20	MP ALPHA2	X	.109	2.167
21	MP GAMMA2	Y	.188	8.833
22	MP GAMMA2	Y	.188	2.167
23	MP GAMMA2	X	.109	8.833
24	MP GAMMA2	X	.109	2.167
25	MP BETA3	Y	.032	5.667
26	MP BETA3	Y	.032	2.333
27	MP BETA3	X	.018	5.667

Member Point Loads (BLC 10 : Wind Load (210)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
28	MP BETA3	X	.018	2.333
29	MP BETA1	Y	.051	4.833
30	MP BETA1	Y	.051	3.167
31	MP BETA1	X	.03	4.833
32	MP BETA1	X	.03	3.167
33	MP BETA2	Y	.098	8.833
34	MP BETA2	Y	.098	2.167
35	MP BETA2	X	.056	8.833
36	MP BETA2	X	.056	2.167
37	MP ALPHA2	Y	.029	8.833
38	MP ALPHA2	Y	.029	2.167
39	MP ALPHA2	X	.017	8.833
40	MP ALPHA2	X	.017	2.167
41	MP BETA2	Y	.025	8.833
42	MP BETA2	Y	.025	2.167
43	MP BETA2	X	.014	8.833
44	MP BETA2	X	.014	2.167
45	MP GAMMA2	Y	.029	8.833
46	MP GAMMA2	Y	.029	2.167
47	MP GAMMA2	X	.017	8.833
48	MP GAMMA2	X	.017	2.167
49	MP ALPHA2	Y	.032	8.833
50	MP ALPHA2	Y	.032	2.167
51	MP ALPHA2	X	.018	8.833
52	MP ALPHA2	X	.018	2.167
53	MP BETA2	Y	.026	8.833
54	MP BETA2	Y	.026	2.167
55	MP BETA2	X	.015	8.833
56	MP BETA2	X	.015	2.167
57	MP GAMMA2	Y	.032	8.833
58	MP GAMMA2	Y	.032	2.167
59	MP GAMMA2	X	.018	8.833
60	MP GAMMA2	X	.018	2.167

Member Point Loads (BLC 11 : Wind Load (240))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.021	5.667
2	MP ALPHA3	Y	.021	2.333
3	MP ALPHA3	X	.036	5.667
4	MP ALPHA3	X	.036	2.333
5	MP GAMMA3	Y	.044	5.667
6	MP GAMMA3	Y	.044	2.333
7	MP GAMMA3	X	.077	5.667
8	MP GAMMA3	X	.077	2.333
9	MP ALPHA1	Y	.033	4.833
10	MP ALPHA1	Y	.033	3.167
11	MP ALPHA1	X	.058	4.833
12	MP ALPHA1	X	.058	3.167
13	MP GAMMA1	Y	.069	4.833
14	MP GAMMA1	Y	.069	3.167
15	MP GAMMA1	X	.12	4.833
16	MP GAMMA1	X	.12	3.167
17	MP ALPHA2	Y	.064	8.833
18	MP ALPHA2	Y	.064	2.167
19	MP ALPHA2	X	.112	8.833
20	MP ALPHA2	X	.112	2.167

Member Point Loads (BLC 11 : Wind Load (240)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
21	MP GAMMA2	Y	.145	8.833
22	MP GAMMA2	Y	.145	2.167
23	MP GAMMA2	X	.25	8.833
24	MP GAMMA2	X	.25	2.167
25	MP BETA3	Y	.029	5.667
26	MP BETA3	Y	.029	2.333
27	MP BETA3	X	.05	5.667
28	MP BETA3	X	.05	2.333
29	MP BETA1	Y	.046	4.833
30	MP BETA1	Y	.046	3.167
31	MP BETA1	X	.079	4.833
32	MP BETA1	X	.079	3.167
33	MP BETA2	Y	.092	8.833
34	MP BETA2	Y	.092	2.167
35	MP BETA2	X	.16	8.833
36	MP BETA2	X	.16	2.167
37	MP ALPHA2	Y	.015	8.833
38	MP ALPHA2	Y	.015	2.167
39	MP ALPHA2	X	.026	8.833
40	MP ALPHA2	X	.026	2.167
41	MP BETA2	Y	.015	8.833
42	MP BETA2	Y	.015	2.167
43	MP BETA2	X	.026	8.833
44	MP BETA2	X	.026	2.167
45	MP GAMMA2	Y	.018	8.833
46	MP GAMMA2	Y	.018	2.167
47	MP GAMMA2	X	.031	8.833
48	MP GAMMA2	X	.031	2.167
49	MP ALPHA2	Y	.016	8.833
50	MP ALPHA2	Y	.016	2.167
51	MP ALPHA2	X	.028	8.833
52	MP ALPHA2	X	.028	2.167
53	MP BETA2	Y	.016	8.833
54	MP BETA2	Y	.016	2.167
55	MP BETA2	X	.028	8.833
56	MP BETA2	X	.028	2.167
57	MP GAMMA2	Y	.019	8.833
58	MP GAMMA2	Y	.019	2.167
59	MP GAMMA2	X	.034	8.833
60	MP GAMMA2	X	.034	2.167

Member Point Loads (BLC 12 : Wind Load (270))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	X	.037	5.667
2	MP ALPHA3	X	.037	2.333
3	MP GAMMA3	X	.084	5.667
4	MP GAMMA3	X	.084	2.333
5	MP ALPHA1	X	.059	4.833
6	MP ALPHA1	X	.059	3.167
7	MP GAMMA1	X	.131	4.833
8	MP GAMMA1	X	.131	3.167
9	MP ALPHA2	X	.113	8.833
10	MP ALPHA2	X	.113	2.167
11	MP GAMMA2	X	.273	8.833
12	MP GAMMA2	X	.273	2.167
13	MP BETA3	X	.084	5.667

Member Point Loads (BLC 12 : Wind Load (270)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
14	MP BETA3	X	.084	2.333
15	MP BETA1	X	.131	4.833
16	MP BETA1	X	.131	3.167
17	MP BETA2	X	.273	8.833
18	MP BETA2	X	.273	2.167
19	MP ALPHA2	X	.029	8.833
20	MP ALPHA2	X	.029	2.167
21	MP BETA2	X	.034	8.833
22	MP BETA2	X	.034	2.167
23	MP GAMMA2	X	.034	8.833
24	MP GAMMA2	X	.034	2.167
25	MP ALPHA2	X	.03	8.833
26	MP ALPHA2	X	.03	2.167
27	MP BETA2	X	.037	8.833
28	MP BETA2	X	.037	2.167
29	MP GAMMA2	X	.037	8.833
30	MP GAMMA2	X	.037	2.167

Member Point Loads (BLC 13 : Wind Load (300))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.029	5.667
2	MP ALPHA3	Y	-.029	2.333
3	MP ALPHA3	X	.05	5.667
4	MP ALPHA3	X	.05	2.333
5	MP GAMMA3	Y	-.029	5.667
6	MP GAMMA3	Y	-.029	2.333
7	MP GAMMA3	X	.05	5.667
8	MP GAMMA3	X	.05	2.333
9	MP ALPHA1	Y	-.046	4.833
10	MP ALPHA1	Y	-.046	3.167
11	MP ALPHA1	X	.079	4.833
12	MP ALPHA1	X	.079	3.167
13	MP GAMMA1	Y	-.046	4.833
14	MP GAMMA1	Y	-.046	3.167
15	MP GAMMA1	X	.079	4.833
16	MP GAMMA1	X	.079	3.167
17	MP ALPHA2	Y	-.092	8.833
18	MP ALPHA2	Y	-.092	2.167
19	MP ALPHA2	X	.16	8.833
20	MP ALPHA2	X	.16	2.167
21	MP GAMMA2	Y	-.092	8.833
22	MP GAMMA2	Y	-.092	2.167
23	MP GAMMA2	X	.16	8.833
24	MP GAMMA2	X	.16	2.167
25	MP BETA3	Y	-.044	5.667
26	MP BETA3	Y	-.044	2.333
27	MP BETA3	X	.077	5.667
28	MP BETA3	X	.077	2.333
29	MP BETA1	Y	-.069	4.833
30	MP BETA1	Y	-.069	3.167
31	MP BETA1	X	.12	4.833
32	MP BETA1	X	.12	3.167
33	MP BETA2	Y	-.145	8.833
34	MP BETA2	Y	-.145	2.167
35	MP BETA2	X	.25	8.833
36	MP BETA2	X	.25	2.167

Member Point Loads (BLC 13 : Wind Load (300)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
37	MP ALPHA2	Y	-.015	8.833
38	MP ALPHA2	Y	-.015	2.167
39	MP ALPHA2	X	.026	8.833
40	MP ALPHA2	X	.026	2.167
41	MP BETA2	Y	-.018	8.833
42	MP BETA2	Y	-.018	2.167
43	MP BETA2	X	.031	8.833
44	MP BETA2	X	.031	2.167
45	MP GAMMA2	Y	-.015	8.833
46	MP GAMMA2	Y	-.015	2.167
47	MP GAMMA2	X	.026	8.833
48	MP GAMMA2	X	.026	2.167
49	MP ALPHA2	Y	-.016	8.833
50	MP ALPHA2	Y	-.016	2.167
51	MP ALPHA2	X	.028	8.833
52	MP ALPHA2	X	.028	2.167
53	MP BETA2	Y	-.019	8.833
54	MP BETA2	Y	-.019	2.167
55	MP BETA2	X	.034	8.833
56	MP BETA2	X	.034	2.167
57	MP GAMMA2	Y	-.016	8.833
58	MP GAMMA2	Y	-.016	2.167
59	MP GAMMA2	X	.028	8.833
60	MP GAMMA2	X	.028	2.167

Member Point Loads (BLC 14 : Wind Load (330))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.072	5.667
2	MP ALPHA3	Y	-.072	2.333
3	MP ALPHA3	X	.042	5.667
4	MP ALPHA3	X	.042	2.333
5	MP GAMMA3	Y	-.032	5.667
6	MP GAMMA3	Y	-.032	2.333
7	MP GAMMA3	X	.018	5.667
8	MP GAMMA3	X	.018	2.333
9	MP ALPHA1	Y	-.113	4.833
10	MP ALPHA1	Y	-.113	3.167
11	MP ALPHA1	X	.065	4.833
12	MP ALPHA1	X	.065	3.167
13	MP GAMMA1	Y	-.051	4.833
14	MP GAMMA1	Y	-.051	3.167
15	MP GAMMA1	X	.03	4.833
16	MP GAMMA1	X	.03	3.167
17	MP ALPHA2	Y	-.236	8.833
18	MP ALPHA2	Y	-.236	2.167
19	MP ALPHA2	X	.136	8.833
20	MP ALPHA2	X	.136	2.167
21	MP GAMMA2	Y	-.098	8.833
22	MP GAMMA2	Y	-.098	2.167
23	MP GAMMA2	X	.056	8.833
24	MP GAMMA2	X	.056	2.167
25	MP BETA3	Y	-.058	5.667
26	MP BETA3	Y	-.058	2.333
27	MP BETA3	X	.034	5.667
28	MP BETA3	X	.034	2.333
29	MP BETA1	Y	-.092	4.833

Member Point Loads (BLC 14 : Wind Load (330)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
30	MP BETA1	Y	-.092	3.167
31	MP BETA1	X	.053	4.833
32	MP BETA1	X	.053	3.167
33	MP BETA2	Y	-.188	8.833
34	MP BETA2	Y	-.188	2.167
35	MP BETA2	X	.109	8.833
36	MP BETA2	X	.109	2.167
37	MP ALPHA2	Y	-.029	8.833
38	MP ALPHA2	Y	-.029	2.167
39	MP ALPHA2	X	.017	8.833
40	MP ALPHA2	X	.017	2.167
41	MP BETA2	Y	-.029	8.833
42	MP BETA2	Y	-.029	2.167
43	MP BETA2	X	.017	8.833
44	MP BETA2	X	.017	2.167
45	MP GAMMA2	Y	-.025	8.833
46	MP GAMMA2	Y	-.025	2.167
47	MP GAMMA2	X	.014	8.833
48	MP GAMMA2	X	.014	2.167
49	MP ALPHA2	Y	-.032	8.833
50	MP ALPHA2	Y	-.032	2.167
51	MP ALPHA2	X	.018	8.833
52	MP ALPHA2	X	.018	2.167
53	MP BETA2	Y	-.032	8.833
54	MP BETA2	Y	-.032	2.167
55	MP BETA2	X	.018	8.833
56	MP BETA2	X	.018	2.167
57	MP GAMMA2	Y	-.026	8.833
58	MP GAMMA2	Y	-.026	2.167
59	MP GAMMA2	X	.015	8.833
60	MP GAMMA2	X	.015	2.167

Member Point Loads (BLC 15 : Maintanence (0))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.005	5.667
2	MP ALPHA3	Y	-.005	2.333
3	MP GAMMA3	Y	-.002	5.667
4	MP GAMMA3	Y	-.002	2.333
5	MP ALPHA1	Y	-.008	4.833
6	MP ALPHA1	Y	-.008	3.167
7	MP GAMMA1	Y	-.004	4.833
8	MP GAMMA1	Y	-.004	3.167
9	MP ALPHA2	Y	-.017	8.833
10	MP ALPHA2	Y	-.017	2.167
11	MP GAMMA2	Y	-.007	8.833
12	MP GAMMA2	Y	-.007	2.167
13	MP BETA3	Y	-.002	5.667
14	MP BETA3	Y	-.002	2.333
15	MP BETA1	Y	-.004	4.833
16	MP BETA1	Y	-.004	3.167
17	MP BETA2	Y	-.007	8.833
18	MP BETA2	Y	-.007	2.167
19	MP ALPHA2	Y	-.002	8.833
20	MP ALPHA2	Y	-.002	2.167
21	MP BETA2	Y	-.002	8.833
22	MP BETA2	Y	-.002	2.167

Member Point Loads (BLC 15 : Maintanence (0)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
23	MP GAMMA2	Y	-.002	8.833
24	MP GAMMA2	Y	-.002	2.167
25	MP ALPHA2	Y	-.002	8.833
26	MP ALPHA2	Y	-.002	2.167
27	MP BETA2	Y	-.002	8.833
28	MP BETA2	Y	-.002	2.167
29	MP GAMMA2	Y	-.002	8.833
30	MP GAMMA2	Y	-.002	2.167

Member Point Loads (BLC 16 : Maintanence (30))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.003	5.667
2	MP ALPHA3	Y	-.003	2.333
3	MP ALPHA3	X	-.002	5.667
4	MP ALPHA3	X	-.002	2.333
5	MP GAMMA3	Y	-.003	5.667
6	MP GAMMA3	Y	-.003	2.333
7	MP GAMMA3	X	-.002	5.667
8	MP GAMMA3	X	-.002	2.333
9	MP ALPHA1	Y	-.005	4.833
10	MP ALPHA1	Y	-.005	3.167
11	MP ALPHA1	X	-.003	4.833
12	MP ALPHA1	X	-.003	3.167
13	MP GAMMA1	Y	-.005	4.833
14	MP GAMMA1	Y	-.005	3.167
15	MP GAMMA1	X	-.003	4.833
16	MP GAMMA1	X	-.003	3.167
17	MP ALPHA2	Y	-.011	8.833
18	MP ALPHA2	Y	-.011	2.167
19	MP ALPHA2	X	-.006	8.833
20	MP ALPHA2	X	-.006	2.167
21	MP GAMMA2	Y	-.011	8.833
22	MP GAMMA2	Y	-.011	2.167
23	MP GAMMA2	X	-.006	8.833
24	MP GAMMA2	X	-.006	2.167
25	MP BETA3	Y	-.002	5.667
26	MP BETA3	Y	-.002	2.333
27	MP BETA3	X	-.001	5.667
28	MP BETA3	X	-.001	2.333
29	MP BETA1	Y	-.003	4.833
30	MP BETA1	Y	-.003	3.167
31	MP BETA1	X	-.002	4.833
32	MP BETA1	X	-.002	3.167
33	MP BETA2	Y	-.006	8.833
34	MP BETA2	Y	-.006	2.167
35	MP BETA2	X	-.003	8.833
36	MP BETA2	X	-.003	2.167
37	MP ALPHA2	Y	-.002	8.833
38	MP ALPHA2	Y	-.002	2.167
39	MP ALPHA2	X	-.000977	8.833
40	MP ALPHA2	X	-.000977	2.167
41	MP BETA2	Y	-.001	8.833
42	MP BETA2	Y	-.001	2.167
43	MP BETA2	X	-.000827	8.833
44	MP BETA2	X	-.000827	2.167
45	MP GAMMA2	Y	-.002	8.833

Member Point Loads (BLC 16 : Maintanence (30)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
46	MP GAMMA2	Y	-.002	2.167
47	MP GAMMA2	X	-.000977	8.833
48	MP GAMMA2	X	-.000977	2.167
49	MP ALPHA2	Y	-.002	8.833
50	MP ALPHA2	Y	-.002	2.167
51	MP ALPHA2	X	-.001	8.833
52	MP ALPHA2	X	-.001	2.167
53	MP BETA2	Y	-.002	8.833
54	MP BETA2	Y	-.002	2.167
55	MP BETA2	X	-.000878	8.833
56	MP BETA2	X	-.000878	2.167
57	MP GAMMA2	Y	-.002	8.833
58	MP GAMMA2	Y	-.002	2.167
59	MP GAMMA2	X	-.001	8.833
60	MP GAMMA2	X	-.001	2.167

Member Point Loads (BLC 17 : Maintanence (60))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.001	5.667
2	MP ALPHA3	Y	-.001	2.333
3	MP ALPHA3	X	-.002	5.667
4	MP ALPHA3	X	-.002	2.333
5	MP GAMMA3	Y	-.003	5.667
6	MP GAMMA3	Y	-.003	2.333
7	MP GAMMA3	X	-.004	5.667
8	MP GAMMA3	X	-.004	2.333
9	MP ALPHA1	Y	-.002	4.833
10	MP ALPHA1	Y	-.002	3.167
11	MP ALPHA1	X	-.003	4.833
12	MP ALPHA1	X	-.003	3.167
13	MP GAMMA1	Y	-.004	4.833
14	MP GAMMA1	Y	-.004	3.167
15	MP GAMMA1	X	-.007	4.833
16	MP GAMMA1	X	-.007	3.167
17	MP ALPHA2	Y	-.004	8.833
18	MP ALPHA2	Y	-.004	2.167
19	MP ALPHA2	X	-.006	8.833
20	MP ALPHA2	X	-.006	2.167
21	MP GAMMA2	Y	-.008	8.833
22	MP GAMMA2	Y	-.008	2.167
23	MP GAMMA2	X	-.014	8.833
24	MP GAMMA2	X	-.014	2.167
25	MP BETA3	Y	-.002	5.667
26	MP BETA3	Y	-.002	2.333
27	MP BETA3	X	-.003	5.667
28	MP BETA3	X	-.003	2.333
29	MP BETA1	Y	-.003	4.833
30	MP BETA1	Y	-.003	3.167
31	MP BETA1	X	-.005	4.833
32	MP BETA1	X	-.005	3.167
33	MP BETA2	Y	-.005	8.833
34	MP BETA2	Y	-.005	2.167
35	MP BETA2	X	-.009	8.833
36	MP BETA2	X	-.009	2.167
37	MP ALPHA2	Y	-.000877	8.833
38	MP ALPHA2	Y	-.000877	2.167

Member Point Loads (BLC 17 : Maintanence (60)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
39	MP ALPHA2	X	-.002	8.833
40	MP ALPHA2	X	-.002	2.167
41	MP BETA2	Y	-.000877	8.833
42	MP BETA2	Y	-.000877	2.167
43	MP BETA2	X	-.002	8.833
44	MP BETA2	X	-.002	2.167
45	MP GAMMA2	Y	-.001	8.833
46	MP GAMMA2	Y	-.001	2.167
47	MP GAMMA2	X	-.002	8.833
48	MP GAMMA2	X	-.002	2.167
49	MP ALPHA2	Y	-.000937	8.833
50	MP ALPHA2	Y	-.000937	2.167
51	MP ALPHA2	X	-.002	8.833
52	MP ALPHA2	X	-.002	2.167
53	MP BETA2	Y	-.000937	8.833
54	MP BETA2	Y	-.000937	2.167
55	MP BETA2	X	-.002	8.833
56	MP BETA2	X	-.002	2.167
57	MP GAMMA2	Y	-.001	8.833
58	MP GAMMA2	Y	-.001	2.167
59	MP GAMMA2	X	-.002	8.833
60	MP GAMMA2	X	-.002	2.167

Member Point Loads (BLC 18 : Maintanence (90))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	X	-.002	5.667
2	MP ALPHA3	X	-.002	2.333
3	MP GAMMA3	X	-.005	5.667
4	MP GAMMA3	X	-.005	2.333
5	MP ALPHA1	X	-.003	4.833
6	MP ALPHA1	X	-.003	3.167
7	MP GAMMA1	X	-.008	4.833
8	MP GAMMA1	X	-.008	3.167
9	MP ALPHA2	X	-.006	8.833
10	MP ALPHA2	X	-.006	2.167
11	MP GAMMA2	X	-.016	8.833
12	MP GAMMA2	X	-.016	2.167
13	MP BETA3	X	-.005	5.667
14	MP BETA3	X	-.005	2.333
15	MP BETA1	X	-.008	4.833
16	MP BETA1	X	-.008	3.167
17	MP BETA2	X	-.016	8.833
18	MP BETA2	X	-.016	2.167
19	MP ALPHA2	X	-.002	8.833
20	MP ALPHA2	X	-.002	2.167
21	MP BETA2	X	-.002	8.833
22	MP BETA2	X	-.002	2.167
23	MP GAMMA2	X	-.002	8.833
24	MP GAMMA2	X	-.002	2.167
25	MP ALPHA2	X	-.002	8.833
26	MP ALPHA2	X	-.002	2.167
27	MP BETA2	X	-.002	8.833
28	MP BETA2	X	-.002	2.167
29	MP GAMMA2	X	-.002	8.833
30	MP GAMMA2	X	-.002	2.167

Member Point Loads (BLC 19 : Maintanence (120))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.002	5.667
2	MP ALPHA3	Y	.002	2.333
3	MP ALPHA3	X	-.003	5.667
4	MP ALPHA3	X	-.003	2.333
5	MP GAMMA3	Y	.002	5.667
6	MP GAMMA3	Y	.002	2.333
7	MP GAMMA3	X	-.003	5.667
8	MP GAMMA3	X	-.003	2.333
9	MP ALPHA1	Y	.003	4.833
10	MP ALPHA1	Y	.003	3.167
11	MP ALPHA1	X	-.005	4.833
12	MP ALPHA1	X	-.005	3.167
13	MP GAMMA1	Y	.003	4.833
14	MP GAMMA1	Y	.003	3.167
15	MP GAMMA1	X	-.005	4.833
16	MP GAMMA1	X	-.005	3.167
17	MP ALPHA2	Y	.005	8.833
18	MP ALPHA2	Y	.005	2.167
19	MP ALPHA2	X	-.009	8.833
20	MP ALPHA2	X	-.009	2.167
21	MP GAMMA2	Y	.005	8.833
22	MP GAMMA2	Y	.005	2.167
23	MP GAMMA2	X	-.009	8.833
24	MP GAMMA2	X	-.009	2.167
25	MP BETA3	Y	.003	5.667
26	MP BETA3	Y	.003	2.333
27	MP BETA3	X	-.004	5.667
28	MP BETA3	X	-.004	2.333
29	MP BETA1	Y	.004	4.833
30	MP BETA1	Y	.004	3.167
31	MP BETA1	X	-.007	4.833
32	MP BETA1	X	-.007	3.167
33	MP BETA2	Y	.008	8.833
34	MP BETA2	Y	.008	2.167
35	MP BETA2	X	-.014	8.833
36	MP BETA2	X	-.014	2.167
37	MP ALPHA2	Y	.000877	8.833
38	MP ALPHA2	Y	.000877	2.167
39	MP ALPHA2	X	-.002	8.833
40	MP ALPHA2	X	-.002	2.167
41	MP BETA2	Y	.001	8.833
42	MP BETA2	Y	.001	2.167
43	MP BETA2	X	-.002	8.833
44	MP BETA2	X	-.002	2.167
45	MP GAMMA2	Y	.000877	8.833
46	MP GAMMA2	Y	.000877	2.167
47	MP GAMMA2	X	-.002	8.833
48	MP GAMMA2	X	-.002	2.167
49	MP ALPHA2	Y	.000937	8.833
50	MP ALPHA2	Y	.000937	2.167
51	MP ALPHA2	X	-.002	8.833
52	MP ALPHA2	X	-.002	2.167
53	MP BETA2	Y	.001	8.833
54	MP BETA2	Y	.001	2.167
55	MP BETA2	X	-.002	8.833
56	MP BETA2	X	-.002	2.167
57	MP GAMMA2	Y	.000937	8.833

Member Point Loads (BLC 19 : Maintanence (120)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
58	MP GAMMA2	Y	.000937	2.167
59	MP GAMMA2	X	-.002	8.833
60	MP GAMMA2	X	-.002	2.167

Member Point Loads (BLC 20 : Maintanence (150))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.004	5.667
2	MP ALPHA3	Y	.004	2.333
3	MP ALPHA3	X	-.002	5.667
4	MP ALPHA3	X	-.002	2.333
5	MP GAMMA3	Y	.002	5.667
6	MP GAMMA3	Y	.002	2.333
7	MP GAMMA3	X	-.001	5.667
8	MP GAMMA3	X	-.001	2.333
9	MP ALPHA1	Y	.007	4.833
10	MP ALPHA1	Y	.007	3.167
11	MP ALPHA1	X	-.004	4.833
12	MP ALPHA1	X	-.004	3.167
13	MP GAMMA1	Y	.003	4.833
14	MP GAMMA1	Y	.003	3.167
15	MP GAMMA1	X	-.002	4.833
16	MP GAMMA1	X	-.002	3.167
17	MP ALPHA2	Y	.014	8.833
18	MP ALPHA2	Y	.014	2.167
19	MP ALPHA2	X	-.008	8.833
20	MP ALPHA2	X	-.008	2.167
21	MP GAMMA2	Y	.006	8.833
22	MP GAMMA2	Y	.006	2.167
23	MP GAMMA2	X	-.003	8.833
24	MP GAMMA2	X	-.003	2.167
25	MP BETA3	Y	.003	5.667
26	MP BETA3	Y	.003	2.333
27	MP BETA3	X	-.002	5.667
28	MP BETA3	X	-.002	2.333
29	MP BETA1	Y	.005	4.833
30	MP BETA1	Y	.005	3.167
31	MP BETA1	X	-.003	4.833
32	MP BETA1	X	-.003	3.167
33	MP BETA2	Y	.011	8.833
34	MP BETA2	Y	.011	2.167
35	MP BETA2	X	-.006	8.833
36	MP BETA2	X	-.006	2.167
37	MP ALPHA2	Y	.002	8.833
38	MP ALPHA2	Y	.002	2.167
39	MP ALPHA2	X	-.000977	8.833
40	MP ALPHA2	X	-.000977	2.167
41	MP BETA2	Y	.002	8.833
42	MP BETA2	Y	.002	2.167
43	MP BETA2	X	-.000977	8.833
44	MP BETA2	X	-.000977	2.167
45	MP GAMMA2	Y	.001	8.833
46	MP GAMMA2	Y	.001	2.167
47	MP GAMMA2	X	-.000827	8.833
48	MP GAMMA2	X	-.000827	2.167
49	MP ALPHA2	Y	.002	8.833
50	MP ALPHA2	Y	.002	2.167

Member Point Loads (BLC 20 : Maintanence (150)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
51	MP ALPHA2	X	-.001	8.833
52	MP ALPHA2	X	-.001	2.167
53	MP BETA2	Y	.002	8.833
54	MP BETA2	Y	.002	2.167
55	MP BETA2	X	-.001	8.833
56	MP BETA2	X	-.001	2.167
57	MP GAMMA2	Y	.002	8.833
58	MP GAMMA2	Y	.002	2.167
59	MP GAMMA2	X	-.000878	8.833
60	MP GAMMA2	X	-.000878	2.167

Member Point Loads (BLC 21 : Maintanence (180))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.005	5.667
2	MP ALPHA3	Y	.005	2.333
3	MP GAMMA3	Y	.002	5.667
4	MP GAMMA3	Y	.002	2.333
5	MP ALPHA1	Y	.008	4.833
6	MP ALPHA1	Y	.008	3.167
7	MP GAMMA1	Y	.004	4.833
8	MP GAMMA1	Y	.004	3.167
9	MP ALPHA2	Y	.017	8.833
10	MP ALPHA2	Y	.017	2.167
11	MP GAMMA2	Y	.007	8.833
12	MP GAMMA2	Y	.007	2.167
13	MP BETA3	Y	.002	5.667
14	MP BETA3	Y	.002	2.333
15	MP BETA1	Y	.004	4.833
16	MP BETA1	Y	.004	3.167
17	MP BETA2	Y	.007	8.833
18	MP BETA2	Y	.007	2.167
19	MP ALPHA2	Y	.002	8.833
20	MP ALPHA2	Y	.002	2.167
21	MP BETA2	Y	.002	8.833
22	MP BETA2	Y	.002	2.167
23	MP GAMMA2	Y	.002	8.833
24	MP GAMMA2	Y	.002	2.167
25	MP ALPHA2	Y	.002	8.833
26	MP ALPHA2	Y	.002	2.167
27	MP BETA2	Y	.002	8.833
28	MP BETA2	Y	.002	2.167
29	MP GAMMA2	Y	.002	8.833
30	MP GAMMA2	Y	.002	2.167

Member Point Loads (BLC 22 : Maintanence (210))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.003	5.667
2	MP ALPHA3	Y	.003	2.333
3	MP ALPHA3	X	.002	5.667
4	MP ALPHA3	X	.002	2.333
5	MP GAMMA3	Y	.003	5.667
6	MP GAMMA3	Y	.003	2.333
7	MP GAMMA3	X	.002	5.667
8	MP GAMMA3	X	.002	2.333
9	MP ALPHA1	Y	.005	4.833
10	MP ALPHA1	Y	.005	3.167

Member Point Loads (BLC 22 : Maintanence (210)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
11	MP ALPHA1	X	.003	4.833
12	MP ALPHA1	X	.003	3.167
13	MP GAMMA1	Y	.005	4.833
14	MP GAMMA1	Y	.005	3.167
15	MP GAMMA1	X	.003	4.833
16	MP GAMMA1	X	.003	3.167
17	MP ALPHA2	Y	.011	8.833
18	MP ALPHA2	Y	.011	2.167
19	MP ALPHA2	X	.006	8.833
20	MP ALPHA2	X	.006	2.167
21	MP GAMMA2	Y	.011	8.833
22	MP GAMMA2	Y	.011	2.167
23	MP GAMMA2	X	.006	8.833
24	MP GAMMA2	X	.006	2.167
25	MP BETA3	Y	.002	5.667
26	MP BETA3	Y	.002	2.333
27	MP BETA3	X	.001	5.667
28	MP BETA3	X	.001	2.333
29	MP BETA1	Y	.003	4.833
30	MP BETA1	Y	.003	3.167
31	MP BETA1	X	.002	4.833
32	MP BETA1	X	.002	3.167
33	MP BETA2	Y	.006	8.833
34	MP BETA2	Y	.006	2.167
35	MP BETA2	X	.003	8.833
36	MP BETA2	X	.003	2.167
37	MP ALPHA2	Y	.002	8.833
38	MP ALPHA2	Y	.002	2.167
39	MP ALPHA2	X	.000977	8.833
40	MP ALPHA2	X	.000977	2.167
41	MP BETA2	Y	.001	8.833
42	MP BETA2	Y	.001	2.167
43	MP BETA2	X	.000827	8.833
44	MP BETA2	X	.000827	2.167
45	MP GAMMA2	Y	.002	8.833
46	MP GAMMA2	Y	.002	2.167
47	MP GAMMA2	X	.000977	8.833
48	MP GAMMA2	X	.000977	2.167
49	MP ALPHA2	Y	.002	8.833
50	MP ALPHA2	Y	.002	2.167
51	MP ALPHA2	X	.001	8.833
52	MP ALPHA2	X	.001	2.167
53	MP BETA2	Y	.002	8.833
54	MP BETA2	Y	.002	2.167
55	MP BETA2	X	.000878	8.833
56	MP BETA2	X	.000878	2.167
57	MP GAMMA2	Y	.002	8.833
58	MP GAMMA2	Y	.002	2.167
59	MP GAMMA2	X	.001	8.833
60	MP GAMMA2	X	.001	2.167

Member Point Loads (BLC 23 : Maintanence (240))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.001	5.667
2	MP ALPHA3	Y	.001	2.333
3	MP ALPHA3	X	.002	5.667

Member Point Loads (BLC 23 : Maintanence (240)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
4	MP ALPHA3	X	.002	2.333
5	MP GAMMA3	Y	.003	5.667
6	MP GAMMA3	Y	.003	2.333
7	MP GAMMA3	X	.004	5.667
8	MP GAMMA3	X	.004	2.333
9	MP ALPHA1	Y	.002	4.833
10	MP ALPHA1	Y	.002	3.167
11	MP ALPHA1	X	.003	4.833
12	MP ALPHA1	X	.003	3.167
13	MP GAMMA1	Y	.004	4.833
14	MP GAMMA1	Y	.004	3.167
15	MP GAMMA1	X	.007	4.833
16	MP GAMMA1	X	.007	3.167
17	MP ALPHA2	Y	.004	8.833
18	MP ALPHA2	Y	.004	2.167
19	MP ALPHA2	X	.006	8.833
20	MP ALPHA2	X	.006	2.167
21	MP GAMMA2	Y	.008	8.833
22	MP GAMMA2	Y	.008	2.167
23	MP GAMMA2	X	.014	8.833
24	MP GAMMA2	X	.014	2.167
25	MP BETA3	Y	.002	5.667
26	MP BETA3	Y	.002	2.333
27	MP BETA3	X	.003	5.667
28	MP BETA3	X	.003	2.333
29	MP BETA1	Y	.003	4.833
30	MP BETA1	Y	.003	3.167
31	MP BETA1	X	.005	4.833
32	MP BETA1	X	.005	3.167
33	MP BETA2	Y	.005	8.833
34	MP BETA2	Y	.005	2.167
35	MP BETA2	X	.009	8.833
36	MP BETA2	X	.009	2.167
37	MP ALPHA2	Y	.000877	8.833
38	MP ALPHA2	Y	.000877	2.167
39	MP ALPHA2	X	.002	8.833
40	MP ALPHA2	X	.002	2.167
41	MP BETA2	Y	.000877	8.833
42	MP BETA2	Y	.000877	2.167
43	MP BETA2	X	.002	8.833
44	MP BETA2	X	.002	2.167
45	MP GAMMA2	Y	.001	8.833
46	MP GAMMA2	Y	.001	2.167
47	MP GAMMA2	X	.002	8.833
48	MP GAMMA2	X	.002	2.167
49	MP ALPHA2	Y	.000937	8.833
50	MP ALPHA2	Y	.000937	2.167
51	MP ALPHA2	X	.002	8.833
52	MP ALPHA2	X	.002	2.167
53	MP BETA2	Y	.000937	8.833
54	MP BETA2	Y	.000937	2.167
55	MP BETA2	X	.002	8.833
56	MP BETA2	X	.002	2.167
57	MP GAMMA2	Y	.001	8.833
58	MP GAMMA2	Y	.001	2.167
59	MP GAMMA2	X	.002	8.833
60	MP GAMMA2	X	.002	2.167

Member Point Loads (BLC 24 : Maintanence (270))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	X	.002	5.667
2	MP ALPHA3	X	.002	2.333
3	MP GAMMA3	X	.005	5.667
4	MP GAMMA3	X	.005	2.333
5	MP ALPHA1	X	.003	4.833
6	MP ALPHA1	X	.003	3.167
7	MP GAMMA1	X	.008	4.833
8	MP GAMMA1	X	.008	3.167
9	MP ALPHA2	X	.006	8.833
10	MP ALPHA2	X	.006	2.167
11	MP GAMMA2	X	.016	8.833
12	MP GAMMA2	X	.016	2.167
13	MP BETA3	X	.005	5.667
14	MP BETA3	X	.005	2.333
15	MP BETA1	X	.008	4.833
16	MP BETA1	X	.008	3.167
17	MP BETA2	X	.016	8.833
18	MP BETA2	X	.016	2.167
19	MP ALPHA2	X	.002	8.833
20	MP ALPHA2	X	.002	2.167
21	MP BETA2	X	.002	8.833
22	MP BETA2	X	.002	2.167
23	MP GAMMA2	X	.002	8.833
24	MP GAMMA2	X	.002	2.167
25	MP ALPHA2	X	.002	8.833
26	MP ALPHA2	X	.002	2.167
27	MP BETA2	X	.002	8.833
28	MP BETA2	X	.002	2.167
29	MP GAMMA2	X	.002	8.833
30	MP GAMMA2	X	.002	2.167

Member Point Loads (BLC 25 : Maintanence (300))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.002	5.667
2	MP ALPHA3	Y	-.002	2.333
3	MP ALPHA3	X	.003	5.667
4	MP ALPHA3	X	.003	2.333
5	MP GAMMA3	Y	-.002	5.667
6	MP GAMMA3	Y	-.002	2.333
7	MP GAMMA3	X	.003	5.667
8	MP GAMMA3	X	.003	2.333
9	MP ALPHA1	Y	-.003	4.833
10	MP ALPHA1	Y	-.003	3.167
11	MP ALPHA1	X	.005	4.833
12	MP ALPHA1	X	.005	3.167
13	MP GAMMA1	Y	-.003	4.833
14	MP GAMMA1	Y	-.003	3.167
15	MP GAMMA1	X	.005	4.833
16	MP GAMMA1	X	.005	3.167
17	MP ALPHA2	Y	-.005	8.833
18	MP ALPHA2	Y	-.005	2.167
19	MP ALPHA2	X	.009	8.833
20	MP ALPHA2	X	.009	2.167
21	MP GAMMA2	Y	-.005	8.833
22	MP GAMMA2	Y	-.005	2.167
23	MP GAMMA2	X	.009	8.833

Member Point Loads (BLC 25 : Maintanence (300)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
24	MP GAMMA2	X	.009	2.167
25	MP BETA3	Y	-.003	5.667
26	MP BETA3	Y	-.003	2.333
27	MP BETA3	X	.004	5.667
28	MP BETA3	X	.004	2.333
29	MP BETA1	Y	-.004	4.833
30	MP BETA1	Y	-.004	3.167
31	MP BETA1	X	.007	4.833
32	MP BETA1	X	.007	3.167
33	MP BETA2	Y	-.008	8.833
34	MP BETA2	Y	-.008	2.167
35	MP BETA2	X	.014	8.833
36	MP BETA2	X	.014	2.167
37	MP ALPHA2	Y	-.000877	8.833
38	MP ALPHA2	Y	-.000877	2.167
39	MP ALPHA2	X	.002	8.833
40	MP ALPHA2	X	.002	2.167
41	MP BETA2	Y	-.001	8.833
42	MP BETA2	Y	-.001	2.167
43	MP BETA2	X	.002	8.833
44	MP BETA2	X	.002	2.167
45	MP GAMMA2	Y	-.000877	8.833
46	MP GAMMA2	Y	-.000877	2.167
47	MP GAMMA2	X	.002	8.833
48	MP GAMMA2	X	.002	2.167
49	MP ALPHA2	Y	-.000937	8.833
50	MP ALPHA2	Y	-.000937	2.167
51	MP ALPHA2	X	.002	8.833
52	MP ALPHA2	X	.002	2.167
53	MP BETA2	Y	-.001	8.833
54	MP BETA2	Y	-.001	2.167
55	MP BETA2	X	.002	8.833
56	MP BETA2	X	.002	2.167
57	MP GAMMA2	Y	-.000937	8.833
58	MP GAMMA2	Y	-.000937	2.167
59	MP GAMMA2	X	.002	8.833
60	MP GAMMA2	X	.002	2.167

Member Point Loads (BLC 26 : Maintanence (330))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.004	5.667
2	MP ALPHA3	Y	-.004	2.333
3	MP ALPHA3	X	.002	5.667
4	MP ALPHA3	X	.002	2.333
5	MP GAMMA3	Y	-.002	5.667
6	MP GAMMA3	Y	-.002	2.333
7	MP GAMMA3	X	.001	5.667
8	MP GAMMA3	X	.001	2.333
9	MP ALPHA1	Y	-.007	4.833
10	MP ALPHA1	Y	-.007	3.167
11	MP ALPHA1	X	.004	4.833
12	MP ALPHA1	X	.004	3.167
13	MP GAMMA1	Y	-.003	4.833
14	MP GAMMA1	Y	-.003	3.167
15	MP GAMMA1	X	.002	4.833
16	MP GAMMA1	X	.002	3.167

Member Point Loads (BLC 26 : Maintanence (330)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
17	MP ALPHA2	Y	-.014	8.833
18	MP ALPHA2	Y	-.014	2.167
19	MP ALPHA2	X	.008	8.833
20	MP ALPHA2	X	.008	2.167
21	MP GAMMA2	Y	-.006	8.833
22	MP GAMMA2	Y	-.006	2.167
23	MP GAMMA2	X	.003	8.833
24	MP GAMMA2	X	.003	2.167
25	MP BETA3	Y	-.003	5.667
26	MP BETA3	Y	-.003	2.333
27	MP BETA3	X	.002	5.667
28	MP BETA3	X	.002	2.333
29	MP BETA1	Y	-.005	4.833
30	MP BETA1	Y	-.005	3.167
31	MP BETA1	X	.003	4.833
32	MP BETA1	X	.003	3.167
33	MP BETA2	Y	-.011	8.833
34	MP BETA2	Y	-.011	2.167
35	MP BETA2	X	.006	8.833
36	MP BETA2	X	.006	2.167
37	MP ALPHA2	Y	-.002	8.833
38	MP ALPHA2	Y	-.002	2.167
39	MP ALPHA2	X	.000977	8.833
40	MP ALPHA2	X	.000977	2.167
41	MP BETA2	Y	-.002	8.833
42	MP BETA2	Y	-.002	2.167
43	MP BETA2	X	.000977	8.833
44	MP BETA2	X	.000977	2.167
45	MP GAMMA2	Y	-.001	8.833
46	MP GAMMA2	Y	-.001	2.167
47	MP GAMMA2	X	.000827	8.833
48	MP GAMMA2	X	.000827	2.167
49	MP ALPHA2	Y	-.002	8.833
50	MP ALPHA2	Y	-.002	2.167
51	MP ALPHA2	X	.001	8.833
52	MP ALPHA2	X	.001	2.167
53	MP BETA2	Y	-.002	8.833
54	MP BETA2	Y	-.002	2.167
55	MP BETA2	X	.001	8.833
56	MP BETA2	X	.001	2.167
57	MP GAMMA2	Y	-.002	8.833
58	MP GAMMA2	Y	-.002	2.167
59	MP GAMMA2	X	.000878	8.833
60	MP GAMMA2	X	.000878	2.167

Member Point Loads (BLC 27 : Ice Dead Load)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Z	-.068	5.667
2	MP ALPHA3	Z	-.068	2.333
3	MP GAMMA3	Z	-.068	5.667
4	MP GAMMA3	Z	-.068	2.333
5	MP ALPHA1	Z	-.084	4.833
6	MP ALPHA1	Z	-.084	3.167
7	MP GAMMA1	Z	-.084	4.833
8	MP GAMMA1	Z	-.084	3.167
9	MP ALPHA2	Z	-.211	8.833

Member Point Loads (BLC 27 : Ice Dead Load) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
10	MP ALPHA2	Z	-.211	2.167
11	MP GAMMA2	Z	-.211	8.833
12	MP GAMMA2	Z	-.211	2.167
13	MP BETA3	Z	-.068	5.667
14	MP BETA3	Z	-.068	2.333
15	MP BETA1	Z	-.084	4.833
16	MP BETA1	Z	-.084	3.167
17	MP BETA2	Z	-.211	8.833
18	MP BETA2	Z	-.211	2.167
19	MP ALPHA2	Z	-.04	8.833
20	MP ALPHA2	Z	-.04	2.167
21	MP BETA2	Z	-.04	8.833
22	MP BETA2	Z	-.04	2.167
23	MP GAMMA2	Z	-.04	8.833
24	MP GAMMA2	Z	-.04	2.167
25	MP ALPHA2	Z	-.045	8.833
26	MP ALPHA2	Z	-.045	2.167
27	MP BETA2	Z	-.045	8.833
28	MP BETA2	Z	-.045	2.167
29	MP GAMMA2	Z	-.045	8.833
30	MP GAMMA2	Z	-.045	2.167

Member Point Loads (BLC 28 : Ice Wind Load (0))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.017	5.667
2	MP ALPHA3	Y	-.017	2.333
3	MP GAMMA3	Y	-.009	5.667
4	MP GAMMA3	Y	-.009	2.333
5	MP ALPHA1	Y	-.025	4.833
6	MP ALPHA1	Y	-.025	3.167
7	MP GAMMA1	Y	-.012	4.833
8	MP GAMMA1	Y	-.012	3.167
9	MP ALPHA2	Y	-.049	8.833
10	MP ALPHA2	Y	-.049	2.167
11	MP GAMMA2	Y	-.023	8.833
12	MP GAMMA2	Y	-.023	2.167
13	MP BETA3	Y	-.009	5.667
14	MP BETA3	Y	-.009	2.333
15	MP BETA1	Y	-.012	4.833
16	MP BETA1	Y	-.012	3.167
17	MP BETA2	Y	-.023	8.833
18	MP BETA2	Y	-.023	2.167
19	MP ALPHA2	Y	-.005	8.833
20	MP ALPHA2	Y	-.005	2.167
21	MP BETA2	Y	-.004	8.833
22	MP BETA2	Y	-.004	2.167
23	MP GAMMA2	Y	-.004	8.833
24	MP GAMMA2	Y	-.004	2.167
25	MP ALPHA2	Y	-.005	8.833
26	MP ALPHA2	Y	-.005	2.167
27	MP BETA2	Y	-.005	8.833
28	MP BETA2	Y	-.005	2.167
29	MP GAMMA2	Y	-.005	8.833
30	MP GAMMA2	Y	-.005	2.167

Member Point Loads (BLC 29 : Ice Wind Load (30))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.011	5.667
2	MP ALPHA3	Y	-.011	2.333
3	MP ALPHA3	X	-.006	5.667
4	MP ALPHA3	X	-.006	2.333
5	MP GAMMA3	Y	-.011	5.667
6	MP GAMMA3	Y	-.011	2.333
7	MP GAMMA3	X	-.006	5.667
8	MP GAMMA3	X	-.006	2.333
9	MP ALPHA1	Y	-.016	4.833
10	MP ALPHA1	Y	-.016	3.167
11	MP ALPHA1	X	-.009	4.833
12	MP ALPHA1	X	-.009	3.167
13	MP GAMMA1	Y	-.016	4.833
14	MP GAMMA1	Y	-.016	3.167
15	MP GAMMA1	X	-.009	4.833
16	MP GAMMA1	X	-.009	3.167
17	MP ALPHA2	Y	-.03	8.833
18	MP ALPHA2	Y	-.03	2.167
19	MP ALPHA2	X	-.018	8.833
20	MP ALPHA2	X	-.018	2.167
21	MP GAMMA2	Y	-.03	8.833
22	MP GAMMA2	Y	-.03	2.167
23	MP GAMMA2	X	-.018	8.833
24	MP GAMMA2	X	-.018	2.167
25	MP BETA3	Y	-.009	5.667
26	MP BETA3	Y	-.009	2.333
27	MP BETA3	X	-.005	5.667
28	MP BETA3	X	-.005	2.333
29	MP BETA1	Y	-.012	4.833
30	MP BETA1	Y	-.012	3.167
31	MP BETA1	X	-.007	4.833
32	MP BETA1	X	-.007	3.167
33	MP BETA2	Y	-.021	8.833
34	MP BETA2	Y	-.021	2.167
35	MP BETA2	X	-.012	8.833
36	MP BETA2	X	-.012	2.167
37	MP ALPHA2	Y	-.004	8.833
38	MP ALPHA2	Y	-.004	2.167
39	MP ALPHA2	X	-.002	8.833
40	MP ALPHA2	X	-.002	2.167
41	MP BETA2	Y	-.004	8.833
42	MP BETA2	Y	-.004	2.167
43	MP BETA2	X	-.002	8.833
44	MP BETA2	X	-.002	2.167
45	MP GAMMA2	Y	-.004	8.833
46	MP GAMMA2	Y	-.004	2.167
47	MP GAMMA2	X	-.002	8.833
48	MP GAMMA2	X	-.002	2.167
49	MP ALPHA2	Y	-.004	8.833
50	MP ALPHA2	Y	-.004	2.167
51	MP ALPHA2	X	-.003	8.833
52	MP ALPHA2	X	-.003	2.167
53	MP BETA2	Y	-.004	8.833
54	MP BETA2	Y	-.004	2.167
55	MP BETA2	X	-.002	8.833
56	MP BETA2	X	-.002	2.167
57	MP GAMMA2	Y	-.004	8.833

Member Point Loads (BLC 29 : Ice Wind Load (30)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
58	MP GAMMA2	Y	-.004	2.167
59	MP GAMMA2	X	-.003	8.833
60	MP GAMMA2	X	-.003	2.167

Member Point Loads (BLC 30 : Ice Wind Load (60))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.005	5.667
2	MP ALPHA3	Y	-.005	2.333
3	MP ALPHA3	X	-.008	5.667
4	MP ALPHA3	X	-.008	2.333
5	MP GAMMA3	Y	-.009	5.667
6	MP GAMMA3	Y	-.009	2.333
7	MP GAMMA3	X	-.015	5.667
8	MP GAMMA3	X	-.015	2.333
9	MP ALPHA1	Y	-.006	4.833
10	MP ALPHA1	Y	-.006	3.167
11	MP ALPHA1	X	-.011	4.833
12	MP ALPHA1	X	-.011	3.167
13	MP GAMMA1	Y	-.012	4.833
14	MP GAMMA1	Y	-.012	3.167
15	MP GAMMA1	X	-.022	4.833
16	MP GAMMA1	X	-.022	3.167
17	MP ALPHA2	Y	-.011	8.833
18	MP ALPHA2	Y	-.011	2.167
19	MP ALPHA2	X	-.02	8.833
20	MP ALPHA2	X	-.02	2.167
21	MP GAMMA2	Y	-.024	8.833
22	MP GAMMA2	Y	-.024	2.167
23	MP GAMMA2	X	-.042	8.833
24	MP GAMMA2	X	-.042	2.167
25	MP BETA3	Y	-.007	5.667
26	MP BETA3	Y	-.007	2.333
27	MP BETA3	X	-.012	5.667
28	MP BETA3	X	-.012	2.333
29	MP BETA1	Y	-.01	4.833
30	MP BETA1	Y	-.01	3.167
31	MP BETA1	X	-.017	4.833
32	MP BETA1	X	-.017	3.167
33	MP BETA2	Y	-.019	8.833
34	MP BETA2	Y	-.019	2.167
35	MP BETA2	X	-.032	8.833
36	MP BETA2	X	-.032	2.167
37	MP ALPHA2	Y	-.002	8.833
38	MP ALPHA2	Y	-.002	2.167
39	MP ALPHA2	X	-.004	8.833
40	MP ALPHA2	X	-.004	2.167
41	MP BETA2	Y	-.002	8.833
42	MP BETA2	Y	-.002	2.167
43	MP BETA2	X	-.004	8.833
44	MP BETA2	X	-.004	2.167
45	MP GAMMA2	Y	-.003	8.833
46	MP GAMMA2	Y	-.003	2.167
47	MP GAMMA2	X	-.004	8.833
48	MP GAMMA2	X	-.004	2.167
49	MP ALPHA2	Y	-.002	8.833
50	MP ALPHA2	Y	-.002	2.167

Member Point Loads (BLC 30 : Ice Wind Load (60)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
51	MP ALPHA2	X	-.004	8.833
52	MP ALPHA2	X	-.004	2.167
53	MP BETA2	Y	-.002	8.833
54	MP BETA2	Y	-.002	2.167
55	MP BETA2	X	-.004	8.833
56	MP BETA2	X	-.004	2.167
57	MP GAMMA2	Y	-.003	8.833
58	MP GAMMA2	Y	-.003	2.167
59	MP GAMMA2	X	-.005	8.833
60	MP GAMMA2	X	-.005	2.167

Member Point Loads (BLC 31 : Ice Wind Load (90))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	X	-.01	5.667
2	MP ALPHA3	X	-.01	2.333
3	MP GAMMA3	X	-.018	5.667
4	MP GAMMA3	X	-.018	2.333
5	MP ALPHA1	X	-.013	4.833
6	MP ALPHA1	X	-.013	3.167
7	MP GAMMA1	X	-.026	4.833
8	MP GAMMA1	X	-.026	3.167
9	MP ALPHA2	X	-.024	8.833
10	MP ALPHA2	X	-.024	2.167
11	MP GAMMA2	X	-.05	8.833
12	MP GAMMA2	X	-.05	2.167
13	MP BETA3	X	-.018	5.667
14	MP BETA3	X	-.018	2.333
15	MP BETA1	X	-.026	4.833
16	MP BETA1	X	-.026	3.167
17	MP BETA2	X	-.05	8.833
18	MP BETA2	X	-.05	2.167
19	MP ALPHA2	X	-.004	8.833
20	MP ALPHA2	X	-.004	2.167
21	MP BETA2	X	-.005	8.833
22	MP BETA2	X	-.005	2.167
23	MP GAMMA2	X	-.005	8.833
24	MP GAMMA2	X	-.005	2.167
25	MP ALPHA2	X	-.004	8.833
26	MP ALPHA2	X	-.004	2.167
27	MP BETA2	X	-.005	8.833
28	MP BETA2	X	-.005	2.167
29	MP GAMMA2	X	-.005	8.833
30	MP GAMMA2	X	-.005	2.167

Member Point Loads (BLC 32 : Ice Wind Load (120))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.007	5.667
2	MP ALPHA3	Y	.007	2.333
3	MP ALPHA3	X	-.012	5.667
4	MP ALPHA3	X	-.012	2.333
5	MP GAMMA3	Y	.007	5.667
6	MP GAMMA3	Y	.007	2.333
7	MP GAMMA3	X	-.012	5.667
8	MP GAMMA3	X	-.012	2.333
9	MP ALPHA1	Y	.01	4.833
10	MP ALPHA1	Y	.01	3.167

Member Point Loads (BLC 32 : Ice Wind Load (120)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
11	MP ALPHA1	X	-.017	4.833
12	MP ALPHA1	X	-.017	3.167
13	MP GAMMA1	Y	.01	4.833
14	MP GAMMA1	Y	.01	3.167
15	MP GAMMA1	X	-.017	4.833
16	MP GAMMA1	X	-.017	3.167
17	MP ALPHA2	Y	.019	8.833
18	MP ALPHA2	Y	.019	2.167
19	MP ALPHA2	X	-.032	8.833
20	MP ALPHA2	X	-.032	2.167
21	MP GAMMA2	Y	.019	8.833
22	MP GAMMA2	Y	.019	2.167
23	MP GAMMA2	X	-.032	8.833
24	MP GAMMA2	X	-.032	2.167
25	MP BETA3	Y	.009	5.667
26	MP BETA3	Y	.009	2.333
27	MP BETA3	X	-.015	5.667
28	MP BETA3	X	-.015	2.333
29	MP BETA1	Y	.012	4.833
30	MP BETA1	Y	.012	3.167
31	MP BETA1	X	-.022	4.833
32	MP BETA1	X	-.022	3.167
33	MP BETA2	Y	.024	8.833
34	MP BETA2	Y	.024	2.167
35	MP BETA2	X	-.042	8.833
36	MP BETA2	X	-.042	2.167
37	MP ALPHA2	Y	.002	8.833
38	MP ALPHA2	Y	.002	2.167
39	MP ALPHA2	X	-.004	8.833
40	MP ALPHA2	X	-.004	2.167
41	MP BETA2	Y	.003	8.833
42	MP BETA2	Y	.003	2.167
43	MP BETA2	X	-.004	8.833
44	MP BETA2	X	-.004	2.167
45	MP GAMMA2	Y	.002	8.833
46	MP GAMMA2	Y	.002	2.167
47	MP GAMMA2	X	-.004	8.833
48	MP GAMMA2	X	-.004	2.167
49	MP ALPHA2	Y	.002	8.833
50	MP ALPHA2	Y	.002	2.167
51	MP ALPHA2	X	-.004	8.833
52	MP ALPHA2	X	-.004	2.167
53	MP BETA2	Y	.003	8.833
54	MP BETA2	Y	.003	2.167
55	MP BETA2	X	-.005	8.833
56	MP BETA2	X	-.005	2.167
57	MP GAMMA2	Y	.002	8.833
58	MP GAMMA2	Y	.002	2.167
59	MP GAMMA2	X	-.004	8.833
60	MP GAMMA2	X	-.004	2.167

Member Point Loads (BLC 33 : Ice Wind Load (150))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.016	5.667
2	MP ALPHA3	Y	.016	2.333
3	MP ALPHA3	X	-.009	5.667

Member Point Loads (BLC 33 : Ice Wind Load (150)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
4	MP ALPHA3	X	-.009	2.333
5	MP GAMMA3	Y	.009	5.667
6	MP GAMMA3	Y	.009	2.333
7	MP GAMMA3	X	-.005	5.667
8	MP GAMMA3	X	-.005	2.333
9	MP ALPHA1	Y	.022	4.833
10	MP ALPHA1	Y	.022	3.167
11	MP ALPHA1	X	-.013	4.833
12	MP ALPHA1	X	-.013	3.167
13	MP GAMMA1	Y	.012	4.833
14	MP GAMMA1	Y	.012	3.167
15	MP GAMMA1	X	-.007	4.833
16	MP GAMMA1	X	-.007	3.167
17	MP ALPHA2	Y	.043	8.833
18	MP ALPHA2	Y	.043	2.167
19	MP ALPHA2	X	-.025	8.833
20	MP ALPHA2	X	-.025	2.167
21	MP GAMMA2	Y	.021	8.833
22	MP GAMMA2	Y	.021	2.167
23	MP GAMMA2	X	-.012	8.833
24	MP GAMMA2	X	-.012	2.167
25	MP BETA3	Y	.011	5.667
26	MP BETA3	Y	.011	2.333
27	MP BETA3	X	-.006	5.667
28	MP BETA3	X	-.006	2.333
29	MP BETA1	Y	.016	4.833
30	MP BETA1	Y	.016	3.167
31	MP BETA1	X	-.009	4.833
32	MP BETA1	X	-.009	3.167
33	MP BETA2	Y	.03	8.833
34	MP BETA2	Y	.03	2.167
35	MP BETA2	X	-.018	8.833
36	MP BETA2	X	-.018	2.167
37	MP ALPHA2	Y	.004	8.833
38	MP ALPHA2	Y	.004	2.167
39	MP ALPHA2	X	-.002	8.833
40	MP ALPHA2	X	-.002	2.167
41	MP BETA2	Y	.004	8.833
42	MP BETA2	Y	.004	2.167
43	MP BETA2	X	-.002	8.833
44	MP BETA2	X	-.002	2.167
45	MP GAMMA2	Y	.004	8.833
46	MP GAMMA2	Y	.004	2.167
47	MP GAMMA2	X	-.002	8.833
48	MP GAMMA2	X	-.002	2.167
49	MP ALPHA2	Y	.004	8.833
50	MP ALPHA2	Y	.004	2.167
51	MP ALPHA2	X	-.003	8.833
52	MP ALPHA2	X	-.003	2.167
53	MP BETA2	Y	.004	8.833
54	MP BETA2	Y	.004	2.167
55	MP BETA2	X	-.003	8.833
56	MP BETA2	X	-.003	2.167
57	MP GAMMA2	Y	.004	8.833
58	MP GAMMA2	Y	.004	2.167
59	MP GAMMA2	X	-.002	8.833
60	MP GAMMA2	X	-.002	2.167

Member Point Loads (BLC 34 : Ice Wind Load (180))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.017	5.667
2	MP ALPHA3	Y	.017	2.333
3	MP GAMMA3	Y	.009	5.667
4	MP GAMMA3	Y	.009	2.333
5	MP ALPHA1	Y	.025	4.833
6	MP ALPHA1	Y	.025	3.167
7	MP GAMMA1	Y	.012	4.833
8	MP GAMMA1	Y	.012	3.167
9	MP ALPHA2	Y	.049	8.833
10	MP ALPHA2	Y	.049	2.167
11	MP GAMMA2	Y	.023	8.833
12	MP GAMMA2	Y	.023	2.167
13	MP BETA3	Y	.009	5.667
14	MP BETA3	Y	.009	2.333
15	MP BETA1	Y	.012	4.833
16	MP BETA1	Y	.012	3.167
17	MP BETA2	Y	.023	8.833
18	MP BETA2	Y	.023	2.167
19	MP ALPHA2	Y	.005	8.833
20	MP ALPHA2	Y	.005	2.167
21	MP BETA2	Y	.004	8.833
22	MP BETA2	Y	.004	2.167
23	MP GAMMA2	Y	.004	8.833
24	MP GAMMA2	Y	.004	2.167
25	MP ALPHA2	Y	.005	8.833
26	MP ALPHA2	Y	.005	2.167
27	MP BETA2	Y	.005	8.833
28	MP BETA2	Y	.005	2.167
29	MP GAMMA2	Y	.005	8.833
30	MP GAMMA2	Y	.005	2.167

Member Point Loads (BLC 35 : Ice Wind Load (210))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.011	5.667
2	MP ALPHA3	Y	.011	2.333
3	MP ALPHA3	X	.006	5.667
4	MP ALPHA3	X	.006	2.333
5	MP GAMMA3	Y	.011	5.667
6	MP GAMMA3	Y	.011	2.333
7	MP GAMMA3	X	.006	5.667
8	MP GAMMA3	X	.006	2.333
9	MP ALPHA1	Y	.016	4.833
10	MP ALPHA1	Y	.016	3.167
11	MP ALPHA1	X	.009	4.833
12	MP ALPHA1	X	.009	3.167
13	MP GAMMA1	Y	.016	4.833
14	MP GAMMA1	Y	.016	3.167
15	MP GAMMA1	X	.009	4.833
16	MP GAMMA1	X	.009	3.167
17	MP ALPHA2	Y	.03	8.833
18	MP ALPHA2	Y	.03	2.167
19	MP ALPHA2	X	.018	8.833
20	MP ALPHA2	X	.018	2.167
21	MP GAMMA2	Y	.03	8.833
22	MP GAMMA2	Y	.03	2.167
23	MP GAMMA2	X	.018	8.833

Member Point Loads (BLC 35 : Ice Wind Load (210)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
24	MP GAMMA2	X	.018	2.167
25	MP BETA3	Y	.009	5.667
26	MP BETA3	Y	.009	2.333
27	MP BETA3	X	.005	5.667
28	MP BETA3	X	.005	2.333
29	MP BETA1	Y	.012	4.833
30	MP BETA1	Y	.012	3.167
31	MP BETA1	X	.007	4.833
32	MP BETA1	X	.007	3.167
33	MP BETA2	Y	.021	8.833
34	MP BETA2	Y	.021	2.167
35	MP BETA2	X	.012	8.833
36	MP BETA2	X	.012	2.167
37	MP ALPHA2	Y	.004	8.833
38	MP ALPHA2	Y	.004	2.167
39	MP ALPHA2	X	.002	8.833
40	MP ALPHA2	X	.002	2.167
41	MP BETA2	Y	.004	8.833
42	MP BETA2	Y	.004	2.167
43	MP BETA2	X	.002	8.833
44	MP BETA2	X	.002	2.167
45	MP GAMMA2	Y	.004	8.833
46	MP GAMMA2	Y	.004	2.167
47	MP GAMMA2	X	.002	8.833
48	MP GAMMA2	X	.002	2.167
49	MP ALPHA2	Y	.004	8.833
50	MP ALPHA2	Y	.004	2.167
51	MP ALPHA2	X	.003	8.833
52	MP ALPHA2	X	.003	2.167
53	MP BETA2	Y	.004	8.833
54	MP BETA2	Y	.004	2.167
55	MP BETA2	X	.002	8.833
56	MP BETA2	X	.002	2.167
57	MP GAMMA2	Y	.004	8.833
58	MP GAMMA2	Y	.004	2.167
59	MP GAMMA2	X	.003	8.833
60	MP GAMMA2	X	.003	2.167

Member Point Loads (BLC 36 : Ice Wind Load (240))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.005	5.667
2	MP ALPHA3	Y	.005	2.333
3	MP ALPHA3	X	.008	5.667
4	MP ALPHA3	X	.008	2.333
5	MP GAMMA3	Y	.009	5.667
6	MP GAMMA3	Y	.009	2.333
7	MP GAMMA3	X	.015	5.667
8	MP GAMMA3	X	.015	2.333
9	MP ALPHA1	Y	.006	4.833
10	MP ALPHA1	Y	.006	3.167
11	MP ALPHA1	X	.011	4.833
12	MP ALPHA1	X	.011	3.167
13	MP GAMMA1	Y	.012	4.833
14	MP GAMMA1	Y	.012	3.167
15	MP GAMMA1	X	.022	4.833
16	MP GAMMA1	X	.022	3.167

Member Point Loads (BLC 36 : Ice Wind Load (240)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
17	MP ALPHA2	Y	.011	8.833
18	MP ALPHA2	Y	.011	2.167
19	MP ALPHA2	X	.02	8.833
20	MP ALPHA2	X	.02	2.167
21	MP GAMMA2	Y	.024	8.833
22	MP GAMMA2	Y	.024	2.167
23	MP GAMMA2	X	.042	8.833
24	MP GAMMA2	X	.042	2.167
25	MP BETA3	Y	.007	5.667
26	MP BETA3	Y	.007	2.333
27	MP BETA3	X	.012	5.667
28	MP BETA3	X	.012	2.333
29	MP BETA1	Y	.01	4.833
30	MP BETA1	Y	.01	3.167
31	MP BETA1	X	.017	4.833
32	MP BETA1	X	.017	3.167
33	MP BETA2	Y	.019	8.833
34	MP BETA2	Y	.019	2.167
35	MP BETA2	X	.032	8.833
36	MP BETA2	X	.032	2.167
37	MP ALPHA2	Y	.002	8.833
38	MP ALPHA2	Y	.002	2.167
39	MP ALPHA2	X	.004	8.833
40	MP ALPHA2	X	.004	2.167
41	MP BETA2	Y	.002	8.833
42	MP BETA2	Y	.002	2.167
43	MP BETA2	X	.004	8.833
44	MP BETA2	X	.004	2.167
45	MP GAMMA2	Y	.003	8.833
46	MP GAMMA2	Y	.003	2.167
47	MP GAMMA2	X	.004	8.833
48	MP GAMMA2	X	.004	2.167
49	MP ALPHA2	Y	.002	8.833
50	MP ALPHA2	Y	.002	2.167
51	MP ALPHA2	X	.004	8.833
52	MP ALPHA2	X	.004	2.167
53	MP BETA2	Y	.002	8.833
54	MP BETA2	Y	.002	2.167
55	MP BETA2	X	.004	8.833
56	MP BETA2	X	.004	2.167
57	MP GAMMA2	Y	.003	8.833
58	MP GAMMA2	Y	.003	2.167
59	MP GAMMA2	X	.005	8.833
60	MP GAMMA2	X	.005	2.167

Member Point Loads (BLC 37 : Ice Wind Load (270))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	X	.01	5.667
2	MP ALPHA3	X	.01	2.333
3	MP GAMMA3	X	.018	5.667
4	MP GAMMA3	X	.018	2.333
5	MP ALPHA1	X	.013	4.833
6	MP ALPHA1	X	.013	3.167
7	MP GAMMA1	X	.026	4.833
8	MP GAMMA1	X	.026	3.167
9	MP ALPHA2	X	.024	8.833

Member Point Loads (BLC 37 : Ice Wind Load (270)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
10	MP ALPHA2	X	.024	2.167
11	MP GAMMA2	X	.05	8.833
12	MP GAMMA2	X	.05	2.167
13	MP BETA3	X	.018	5.667
14	MP BETA3	X	.018	2.333
15	MP BETA1	X	.026	4.833
16	MP BETA1	X	.026	3.167
17	MP BETA2	X	.05	8.833
18	MP BETA2	X	.05	2.167
19	MP ALPHA2	X	.004	8.833
20	MP ALPHA2	X	.004	2.167
21	MP BETA2	X	.005	8.833
22	MP BETA2	X	.005	2.167
23	MP GAMMA2	X	.005	8.833
24	MP GAMMA2	X	.005	2.167
25	MP ALPHA2	X	.004	8.833
26	MP ALPHA2	X	.004	2.167
27	MP BETA2	X	.005	8.833
28	MP BETA2	X	.005	2.167
29	MP GAMMA2	X	.005	8.833
30	MP GAMMA2	X	.005	2.167

Member Point Loads (BLC 38 : Ice Wind Load (300))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.007	5.667
2	MP ALPHA3	Y	-.007	2.333
3	MP ALPHA3	X	.012	5.667
4	MP ALPHA3	X	.012	2.333
5	MP GAMMA3	Y	-.007	5.667
6	MP GAMMA3	Y	-.007	2.333
7	MP GAMMA3	X	.012	5.667
8	MP GAMMA3	X	.012	2.333
9	MP ALPHA1	Y	-.01	4.833
10	MP ALPHA1	Y	-.01	3.167
11	MP ALPHA1	X	.017	4.833
12	MP ALPHA1	X	.017	3.167
13	MP GAMMA1	Y	-.01	4.833
14	MP GAMMA1	Y	-.01	3.167
15	MP GAMMA1	X	.017	4.833
16	MP GAMMA1	X	.017	3.167
17	MP ALPHA2	Y	-.019	8.833
18	MP ALPHA2	Y	-.019	2.167
19	MP ALPHA2	X	.032	8.833
20	MP ALPHA2	X	.032	2.167
21	MP GAMMA2	Y	-.019	8.833
22	MP GAMMA2	Y	-.019	2.167
23	MP GAMMA2	X	.032	8.833
24	MP GAMMA2	X	.032	2.167
25	MP BETA3	Y	-.009	5.667
26	MP BETA3	Y	-.009	2.333
27	MP BETA3	X	.015	5.667
28	MP BETA3	X	.015	2.333
29	MP BETA1	Y	-.012	4.833
30	MP BETA1	Y	-.012	3.167
31	MP BETA1	X	.022	4.833
32	MP BETA1	X	.022	3.167

Member Point Loads (BLC 38 : Ice Wind Load (300)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
33	MP BETA2	Y	-.024	8.833
34	MP BETA2	Y	-.024	2.167
35	MP BETA2	X	.042	8.833
36	MP BETA2	X	.042	2.167
37	MP ALPHA2	Y	-.002	8.833
38	MP ALPHA2	Y	-.002	2.167
39	MP ALPHA2	X	.004	8.833
40	MP ALPHA2	X	.004	2.167
41	MP BETA2	Y	-.003	8.833
42	MP BETA2	Y	-.003	2.167
43	MP BETA2	X	.004	8.833
44	MP BETA2	X	.004	2.167
45	MP GAMMA2	Y	-.002	8.833
46	MP GAMMA2	Y	-.002	2.167
47	MP GAMMA2	X	.004	8.833
48	MP GAMMA2	X	.004	2.167
49	MP ALPHA2	Y	-.002	8.833
50	MP ALPHA2	Y	-.002	2.167
51	MP ALPHA2	X	.004	8.833
52	MP ALPHA2	X	.004	2.167
53	MP BETA2	Y	-.003	8.833
54	MP BETA2	Y	-.003	2.167
55	MP BETA2	X	.005	8.833
56	MP BETA2	X	.005	2.167
57	MP GAMMA2	Y	-.002	8.833
58	MP GAMMA2	Y	-.002	2.167
59	MP GAMMA2	X	.004	8.833
60	MP GAMMA2	X	.004	2.167

Member Point Loads (BLC 39 : Ice Wind Load (330))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.016	5.667
2	MP ALPHA3	Y	-.016	2.333
3	MP ALPHA3	X	.009	5.667
4	MP ALPHA3	X	.009	2.333
5	MP GAMMA3	Y	-.009	5.667
6	MP GAMMA3	Y	-.009	2.333
7	MP GAMMA3	X	.005	5.667
8	MP GAMMA3	X	.005	2.333
9	MP ALPHA1	Y	-.022	4.833
10	MP ALPHA1	Y	-.022	3.167
11	MP ALPHA1	X	.013	4.833
12	MP ALPHA1	X	.013	3.167
13	MP GAMMA1	Y	-.012	4.833
14	MP GAMMA1	Y	-.012	3.167
15	MP GAMMA1	X	.007	4.833
16	MP GAMMA1	X	.007	3.167
17	MP ALPHA2	Y	-.043	8.833
18	MP ALPHA2	Y	-.043	2.167
19	MP ALPHA2	X	.025	8.833
20	MP ALPHA2	X	.025	2.167
21	MP GAMMA2	Y	-.021	8.833
22	MP GAMMA2	Y	-.021	2.167
23	MP GAMMA2	X	.012	8.833
24	MP GAMMA2	X	.012	2.167
25	MP BETA3	Y	-.011	5.667

Member Point Loads (BLC 39 : Ice Wind Load (330)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
26	MP BETA3	Y	-.011	2.333
27	MP BETA3	X	.006	5.667
28	MP BETA3	X	.006	2.333
29	MP BETA1	Y	-.016	4.833
30	MP BETA1	Y	-.016	3.167
31	MP BETA1	X	.009	4.833
32	MP BETA1	X	.009	3.167
33	MP BETA2	Y	-.03	8.833
34	MP BETA2	Y	-.03	2.167
35	MP BETA2	X	.018	8.833
36	MP BETA2	X	.018	2.167
37	MP ALPHA2	Y	-.004	8.833
38	MP ALPHA2	Y	-.004	2.167
39	MP ALPHA2	X	.002	8.833
40	MP ALPHA2	X	.002	2.167
41	MP BETA2	Y	-.004	8.833
42	MP BETA2	Y	-.004	2.167
43	MP BETA2	X	.002	8.833
44	MP BETA2	X	.002	2.167
45	MP GAMMA2	Y	-.004	8.833
46	MP GAMMA2	Y	-.004	2.167
47	MP GAMMA2	X	.002	8.833
48	MP GAMMA2	X	.002	2.167
49	MP ALPHA2	Y	-.004	8.833
50	MP ALPHA2	Y	-.004	2.167
51	MP ALPHA2	X	.003	8.833
52	MP ALPHA2	X	.003	2.167
53	MP BETA2	Y	-.004	8.833
54	MP BETA2	Y	-.004	2.167
55	MP BETA2	X	.003	8.833
56	MP BETA2	X	.003	2.167
57	MP GAMMA2	Y	-.004	8.833
58	MP GAMMA2	Y	-.004	2.167
59	MP GAMMA2	X	.002	8.833
60	MP GAMMA2	X	.002	2.167

Member Point Loads (BLC 40 : Earthquake (x-direction))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	X	-.002	5.667
2	MP ALPHA3	X	-.002	2.333
3	MP GAMMA3	X	-.002	5.667
4	MP GAMMA3	X	-.002	2.333
5	MP ALPHA1	X	-.005	4.833
6	MP ALPHA1	X	-.005	3.167
7	MP GAMMA1	X	-.005	4.833
8	MP GAMMA1	X	-.005	3.167
9	MP ALPHA2	X	-.007	8.833
10	MP ALPHA2	X	-.007	2.167
11	MP GAMMA2	X	-.007	8.833
12	MP GAMMA2	X	-.007	2.167
13	MP BETA3	X	-.002	5.667
14	MP BETA3	X	-.002	2.333
15	MP BETA1	X	-.005	4.833
16	MP BETA1	X	-.005	3.167
17	MP BETA2	X	-.007	8.833
18	MP BETA2	X	-.007	2.167

Member Point Loads (BLC 40 : Earthquake (x-direction)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
19	MP ALPHA2	X	-.004	8.833
20	MP ALPHA2	X	-.004	2.167
21	MP BETA2	X	-.004	8.833
22	MP BETA2	X	-.004	2.167
23	MP GAMMA2	X	-.004	8.833
24	MP GAMMA2	X	-.004	2.167
25	MP ALPHA2	X	-.005	8.833
26	MP ALPHA2	X	-.005	2.167
27	MP BETA2	X	-.005	8.833
28	MP BETA2	X	-.005	2.167
29	MP GAMMA2	X	-.005	8.833
30	MP GAMMA2	X	-.005	2.167

Member Point Loads (BLC 41 : Earthquake (y-direction))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.002	5.667
2	MP ALPHA3	Y	-.002	2.333
3	MP GAMMA3	Y	-.002	5.667
4	MP GAMMA3	Y	-.002	2.333
5	MP ALPHA1	Y	-.005	4.833
6	MP ALPHA1	Y	-.005	3.167
7	MP GAMMA1	Y	-.005	4.833
8	MP GAMMA1	Y	-.005	3.167
9	MP ALPHA2	Y	-.007	8.833
10	MP ALPHA2	Y	-.007	2.167
11	MP GAMMA2	Y	-.007	8.833
12	MP GAMMA2	Y	-.007	2.167
13	MP BETA3	Y	-.002	5.667
14	MP BETA3	Y	-.002	2.333
15	MP BETA1	Y	-.005	4.833
16	MP BETA1	Y	-.005	3.167
17	MP BETA2	Y	-.007	8.833
18	MP BETA2	Y	-.007	2.167
19	MP ALPHA2	Y	-.004	8.833
20	MP ALPHA2	Y	-.004	2.167
21	MP BETA2	Y	-.004	8.833
22	MP BETA2	Y	-.004	2.167
23	MP GAMMA2	Y	-.004	8.833
24	MP GAMMA2	Y	-.004	2.167
25	MP ALPHA2	Y	-.005	8.833
26	MP ALPHA2	Y	-.005	2.167
27	MP BETA2	Y	-.005	8.833
28	MP BETA2	Y	-.005	2.167
29	MP GAMMA2	Y	-.005	8.833
30	MP GAMMA2	Y	-.005	2.167

Member Point Loads (BLC 42 : Earthquake (z-direction))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Z	-.000643	5.667
2	MP ALPHA3	Z	-.000643	2.333
3	MP GAMMA3	Z	-.000643	5.667
4	MP GAMMA3	Z	-.000643	2.333
5	MP ALPHA1	Z	-.002	4.833
6	MP ALPHA1	Z	-.002	3.167
7	MP GAMMA1	Z	-.002	4.833
8	MP GAMMA1	Z	-.002	3.167

Member Point Loads (BLC 42 : Earthquake (z-direction)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
9	MP ALPHA2	Z	-.003	8.833
10	MP ALPHA2	Z	-.003	2.167
11	MP GAMMA2	Z	-.003	8.833
12	MP GAMMA2	Z	-.003	2.167
13	MP BETA3	Z	-.000643	5.667
14	MP BETA3	Z	-.000643	2.333
15	MP BETA1	Z	-.002	4.833
16	MP BETA1	Z	-.002	3.167
17	MP BETA2	Z	-.003	8.833
18	MP BETA2	Z	-.003	2.167
19	MP ALPHA2	Z	-.001	8.833
20	MP ALPHA2	Z	-.001	2.167
21	MP BETA2	Z	-.001	8.833
22	MP BETA2	Z	-.001	2.167
23	MP GAMMA2	Z	-.001	8.833
24	MP GAMMA2	Z	-.001	2.167
25	MP ALPHA2	Z	-.002	8.833
26	MP ALPHA2	Z	-.002	2.167
27	MP BETA2	Z	-.002	8.833
28	MP BETA2	Z	-.002	2.167
29	MP GAMMA2	Z	-.002	8.833
30	MP GAMMA2	Z	-.002	2.167

Member Distributed Loads (BLC 2 : Wind Load (0))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PY	-.012	-.012	0	0
2	SUP1	PY	-.012	-.012	0	0
3	SO3	PY	-.008	-.008	0	0
4	SO2	PY	-.008	-.008	0	0
5	SO1	PY	-.008	-.008	0	0
6	RAIL3c	PY	-.016	-.016	0	0
7	RAIL3b	PY	-.016	-.016	0	0
8	RAIL3a	PY	-.016	-.016	0	0
9	RAIL2c	PY	-.016	-.016	0	0
10	RAIL2b	PY	-.016	-.016	0	0
11	RAIL2a	PY	-.016	-.016	0	0
12	RAIL1c	PY	-.009	-.009	0	0
13	RAIL1b	PY	-.009	-.009	0	0
14	RAIL1a	PY	-.009	-.009	0	0
15	PLATE3	PY	-.002	-.002	0	0
16	PLATE2	PY	-.002	-.002	0	0
17	PLATE1	PY	-.002	-.002	0	0
18	MP GAMMA4	PY	-.01	-.01	0	0
19	MP GAMMA3	PY	-.01	-.01	0	0
20	MP GAMMA2	PY	-.01	-.01	0	0
21	MP GAMMA1	PY	-.01	-.01	0	0
22	MP BETA4	PY	-.01	-.01	0	0
23	MP BETA3	PY	-.01	-.01	0	0
24	MP BETA2	PY	-.01	-.01	0	0
25	MP BETA1	PY	-.01	-.01	0	0
26	MP ALPHA4	PY	-.01	-.01	0	0
27	MP ALPHA3	PY	-.01	-.01	0	0
28	MP ALPHA2	PY	-.01	-.01	0	0
29	MP ALPHA1	PY	-.01	-.01	0	0
30	KICKER3	PY	-.008	-.008	0	0

Member Distributed Loads (BLC 2 : Wind Load (0)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
31	KICKER2	PY	-.008	-.008	0	0
32	KICKER1	PY	-.008	-.008	0	0
33	FACE3	PY	-.027	-.027	0	0
34	FACE2	PY	-.027	-.027	0	0
35	FACE1	PY	-.015	-.015	0	0
36	CORNER	PY	-.012	-.012	0	0

Member Distributed Loads (BLC 4 : Wind Load (30))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PY	-.01	-.01	0	0
2	SUP1	PY	-.01	-.01	0	0
3	SO3	PY	-.006	-.006	0	0
4	SO2	PY	-.006	-.006	0	0
5	SO1	PY	-.006	-.006	0	0
6	RAIL3c	PY	-.014	-.014	0	0
7	RAIL3b	PY	-.014	-.014	0	0
8	RAIL3a	PY	-.014	-.014	0	0
9	RAIL2c	PY	-.014	-.014	0	0
10	RAIL2b	PY	-.014	-.014	0	0
11	RAIL2a	PY	-.014	-.014	0	0
12	RAIL1c	PY	-.008	-.008	0	0
13	RAIL1b	PY	-.008	-.008	0	0
14	RAIL1a	PY	-.008	-.008	0	0
15	PLATE3	PY	-.001	-.001	0	0
16	PLATE2	PY	-.001	-.001	0	0
17	PLATE1	PY	-.001	-.001	0	0
18	MP GAMMA4	PY	-.009	-.009	0	0
19	MP GAMMA3	PY	-.009	-.009	0	0
20	MP GAMMA2	PY	-.009	-.009	0	0
21	MP GAMMA1	PY	-.009	-.009	0	0
22	MP BETA4	PY	-.009	-.009	0	0
23	MP BETA3	PY	-.009	-.009	0	0
24	MP BETA2	PY	-.009	-.009	0	0
25	MP BETA1	PY	-.009	-.009	0	0
26	MP ALPHA4	PY	-.009	-.009	0	0
27	MP ALPHA3	PY	-.009	-.009	0	0
28	MP ALPHA2	PY	-.009	-.009	0	0
29	MP ALPHA1	PY	-.009	-.009	0	0
30	KICKER3	PY	-.006	-.006	0	0
31	KICKER2	PY	-.006	-.006	0	0
32	KICKER1	PY	-.006	-.006	0	0
33	FACE3	PY	-.023	-.023	0	0
34	FACE2	PY	-.023	-.023	0	0
35	FACE1	PY	-.013	-.013	0	0
36	CORNER	PY	-.01	-.01	0	0
37	SUP2	PX	-.006	-.006	0	0
38	SUP1	PX	-.006	-.006	0	0
39	SO3	PX	-.004	-.004	0	0
40	SO2	PX	-.004	-.004	0	0
41	SO1	PX	-.004	-.004	0	0
42	RAIL3c	PX	-.008	-.008	0	0
43	RAIL3b	PX	-.008	-.008	0	0
44	RAIL3a	PX	-.008	-.008	0	0
45	RAIL2c	PX	-.008	-.008	0	0
46	RAIL2b	PX	-.008	-.008	0	0
47	RAIL2a	PX	-.008	-.008	0	0

Member Distributed Loads (BLC 4 : Wind Load (30)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
48	RAIL1c	PX	-.005	-.005	0	0
49	RAIL1b	PX	-.005	-.005	0	0
50	RAIL1a	PX	-.005	-.005	0	0
51	PLATE3	PX	-.00075	-.00075	0	0
52	PLATE2	PX	-.00075	-.00075	0	0
53	PLATE1	PX	-.00075	-.00075	0	0
54	MP GAMMA4	PX	-.005	-.005	0	0
55	MP GAMMA3	PX	-.005	-.005	0	0
56	MP GAMMA2	PX	-.005	-.005	0	0
57	MP GAMMA1	PX	-.005	-.005	0	0
58	MP BETA4	PX	-.005	-.005	0	0
59	MP BETA3	PX	-.005	-.005	0	0
60	MP BETA2	PX	-.005	-.005	0	0
61	MP BETA1	PX	-.005	-.005	0	0
62	MP ALPHA4	PX	-.005	-.005	0	0
63	MP ALPHA3	PX	-.005	-.005	0	0
64	MP ALPHA2	PX	-.005	-.005	0	0
65	MP ALPHA1	PX	-.005	-.005	0	0
66	KICKER3	PX	-.004	-.004	0	0
67	KICKER2	PX	-.004	-.004	0	0
68	KICKER1	PX	-.004	-.004	0	0
69	FACE3	PX	-.013	-.013	0	0
70	FACE2	PX	-.013	-.013	0	0
71	FACE1	PX	-.008	-.008	0	0
72	CORNER	PX	-.006	-.006	0	0

Member Distributed Loads (BLC 5 : Wind Load (60))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PY	-.006	-.006	0	0
2	SUP1	PY	-.006	-.006	0	0
3	SO3	PY	-.004	-.004	0	0
4	SO2	PY	-.004	-.004	0	0
5	SO1	PY	-.004	-.004	0	0
6	RAIL3c	PY	-.008	-.008	0	0
7	RAIL3b	PY	-.008	-.008	0	0
8	RAIL3a	PY	-.008	-.008	0	0
9	RAIL2c	PY	-.008	-.008	0	0
10	RAIL2b	PY	-.008	-.008	0	0
11	RAIL2a	PY	-.008	-.008	0	0
12	RAIL1c	PY	-.005	-.005	0	0
13	RAIL1b	PY	-.005	-.005	0	0
14	RAIL1a	PY	-.005	-.005	0	0
15	PLATE3	PY	-.00075	-.00075	0	0
16	PLATE2	PY	-.00075	-.00075	0	0
17	PLATE1	PY	-.00075	-.00075	0	0
18	MP GAMMA4	PY	-.005	-.005	0	0
19	MP GAMMA3	PY	-.005	-.005	0	0
20	MP GAMMA2	PY	-.005	-.005	0	0
21	MP GAMMA1	PY	-.005	-.005	0	0
22	MP BETA4	PY	-.005	-.005	0	0
23	MP BETA3	PY	-.005	-.005	0	0
24	MP BETA2	PY	-.005	-.005	0	0
25	MP BETA1	PY	-.005	-.005	0	0
26	MP ALPHA4	PY	-.005	-.005	0	0
27	MP ALPHA3	PY	-.005	-.005	0	0
28	MP ALPHA2	PY	-.005	-.005	0	0

Member Distributed Loads (BLC 5 : Wind Load (60)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
29	MP ALPHA1	PY	-.005	-.005	0	0
30	KICKER3	PY	-.004	-.004	0	0
31	KICKER2	PY	-.004	-.004	0	0
32	KICKER1	PY	-.004	-.004	0	0
33	FACE3	PY	-.013	-.013	0	0
34	FACE2	PY	-.013	-.013	0	0
35	FACE1	PY	-.008	-.008	0	0
36	CORNER	PY	-.006	-.006	0	0
37	SUP2	PX	-.01	-.01	0	0
38	SUP1	PX	-.01	-.01	0	0
39	SO3	PX	-.006	-.006	0	0
40	SO2	PX	-.006	-.006	0	0
41	SO1	PX	-.006	-.006	0	0
42	RAIL3c	PX	-.014	-.014	0	0
43	RAIL3b	PX	-.014	-.014	0	0
44	RAIL3a	PX	-.014	-.014	0	0
45	RAIL2c	PX	-.014	-.014	0	0
46	RAIL2b	PX	-.014	-.014	0	0
47	RAIL2a	PX	-.014	-.014	0	0
48	RAIL1c	PX	-.008	-.008	0	0
49	RAIL1b	PX	-.008	-.008	0	0
50	RAIL1a	PX	-.008	-.008	0	0
51	PLATE3	PX	-.001	-.001	0	0
52	PLATE2	PX	-.001	-.001	0	0
53	PLATE1	PX	-.001	-.001	0	0
54	MP GAMMA4	PX	-.009	-.009	0	0
55	MP GAMMA3	PX	-.009	-.009	0	0
56	MP GAMMA2	PX	-.009	-.009	0	0
57	MP GAMMA1	PX	-.009	-.009	0	0
58	MP BETA4	PX	-.009	-.009	0	0
59	MP BETA3	PX	-.009	-.009	0	0
60	MP BETA2	PX	-.009	-.009	0	0
61	MP BETA1	PX	-.009	-.009	0	0
62	MP ALPHA4	PX	-.009	-.009	0	0
63	MP ALPHA3	PX	-.009	-.009	0	0
64	MP ALPHA2	PX	-.009	-.009	0	0
65	MP ALPHA1	PX	-.009	-.009	0	0
66	KICKER3	PX	-.006	-.006	0	0
67	KICKER2	PX	-.006	-.006	0	0
68	KICKER1	PX	-.006	-.006	0	0
69	FACE3	PX	-.023	-.023	0	0
70	FACE2	PX	-.023	-.023	0	0
71	FACE1	PX	-.013	-.013	0	0
72	CORNER	PX	-.01	-.01	0	0

Member Distributed Loads (BLC 6 : Wind Load (90))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PX	-.012	-.012	0	0
2	SUP1	PX	-.012	-.012	0	0
3	SO3	PX	-.008	-.008	0	0
4	SO2	PX	-.008	-.008	0	0
5	SO1	PX	-.008	-.008	0	0
6	RAIL3c	PX	-.016	-.016	0	0
7	RAIL3b	PX	-.016	-.016	0	0
8	RAIL3a	PX	-.016	-.016	0	0
9	RAIL2c	PX	-.016	-.016	0	0

Member Distributed Loads (BLC 6 : Wind Load (90)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
10	RAIL2b	PX	-.016	-.016	0	0
11	RAIL2a	PX	-.016	-.016	0	0
12	RAIL1c	PX	-.009	-.009	0	0
13	RAIL1b	PX	-.009	-.009	0	0
14	RAIL1a	PX	-.009	-.009	0	0
15	PLATE3	PX	-.002	-.002	0	0
16	PLATE2	PX	-.002	-.002	0	0
17	PLATE1	PX	-.002	-.002	0	0
18	MP GAMMA4	PX	-.01	-.01	0	0
19	MP GAMMA3	PX	-.01	-.01	0	0
20	MP GAMMA2	PX	-.01	-.01	0	0
21	MP GAMMA1	PX	-.01	-.01	0	0
22	MP BETA4	PX	-.01	-.01	0	0
23	MP BETA3	PX	-.01	-.01	0	0
24	MP BETA2	PX	-.01	-.01	0	0
25	MP BETA1	PX	-.01	-.01	0	0
26	MP ALPHA4	PX	-.01	-.01	0	0
27	MP ALPHA3	PX	-.01	-.01	0	0
28	MP ALPHA2	PX	-.01	-.01	0	0
29	MP ALPHA1	PX	-.01	-.01	0	0
30	KICKER3	PX	-.008	-.008	0	0
31	KICKER2	PX	-.008	-.008	0	0
32	KICKER1	PX	-.008	-.008	0	0
33	FACE3	PX	-.027	-.027	0	0
34	FACE1	PX	-.027	-.027	0	0
35	FACE2	PX	-.015	-.015	0	0
36	CORNER	PX	-.012	-.012	0	0

Member Distributed Loads (BLC 7 : Wind Load (120))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PY	.006	.006	0	0
2	SUP1	PY	.006	.006	0	0
3	SO3	PY	.004	.004	0	0
4	SO2	PY	.004	.004	0	0
5	SO1	PY	.004	.004	0	0
6	RAIL3c	PY	.008	.008	0	0
7	RAIL3b	PY	.008	.008	0	0
8	RAIL3a	PY	.008	.008	0	0
9	RAIL2c	PY	.008	.008	0	0
10	RAIL2b	PY	.008	.008	0	0
11	RAIL2a	PY	.008	.008	0	0
12	RAIL1c	PY	.005	.005	0	0
13	RAIL1b	PY	.005	.005	0	0
14	RAIL1a	PY	.005	.005	0	0
15	PLATE3	PY	.00075	.00075	0	0
16	PLATE2	PY	.00075	.00075	0	0
17	PLATE1	PY	.00075	.00075	0	0
18	MP GAMMA4	PY	.005	.005	0	0
19	MP GAMMA3	PY	.005	.005	0	0
20	MP GAMMA2	PY	.005	.005	0	0
21	MP GAMMA1	PY	.005	.005	0	0
22	MP BETA4	PY	.005	.005	0	0
23	MP BETA3	PY	.005	.005	0	0
24	MP BETA2	PY	.005	.005	0	0
25	MP BETA1	PY	.005	.005	0	0
26	MP ALPHA4	PY	.005	.005	0	0

Member Distributed Loads (BLC 7 : Wind Load (120)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
27	MP ALPHA3	PY	.005	.005	0	0
28	MP ALPHA2	PY	.005	.005	0	0
29	MP ALPHA1	PY	.005	.005	0	0
30	KICKER3	PY	.004	.004	0	0
31	KICKER2	PY	.004	.004	0	0
32	KICKER1	PY	.004	.004	0	0
33	FACE3	PY	.013	.013	0	0
34	FACE1	PY	.013	.013	0	0
35	FACE2	PY	.008	.008	0	0
36	CORNER	PY	.006	.006	0	0
37	SUP2	PX	-.01	-.01	0	0
38	SUP1	PX	-.01	-.01	0	0
39	SO3	PX	-.006	-.006	0	0
40	SO2	PX	-.006	-.006	0	0
41	SO1	PX	-.006	-.006	0	0
42	RAIL3c	PX	-.014	-.014	0	0
43	RAIL3b	PX	-.014	-.014	0	0
44	RAIL3a	PX	-.014	-.014	0	0
45	RAIL2c	PX	-.014	-.014	0	0
46	RAIL2b	PX	-.014	-.014	0	0
47	RAIL2a	PX	-.014	-.014	0	0
48	RAIL1c	PX	-.008	-.008	0	0
49	RAIL1b	PX	-.008	-.008	0	0
50	RAIL1a	PX	-.008	-.008	0	0
51	PLATE3	PX	-.001	-.001	0	0
52	PLATE2	PX	-.001	-.001	0	0
53	PLATE1	PX	-.001	-.001	0	0
54	MP GAMMA4	PX	-.009	-.009	0	0
55	MP GAMMA3	PX	-.009	-.009	0	0
56	MP GAMMA2	PX	-.009	-.009	0	0
57	MP GAMMA1	PX	-.009	-.009	0	0
58	MP BETA4	PX	-.009	-.009	0	0
59	MP BETA3	PX	-.009	-.009	0	0
60	MP BETA2	PX	-.009	-.009	0	0
61	MP BETA1	PX	-.009	-.009	0	0
62	MP ALPHA4	PX	-.009	-.009	0	0
63	MP ALPHA3	PX	-.009	-.009	0	0
64	MP ALPHA2	PX	-.009	-.009	0	0
65	MP ALPHA1	PX	-.009	-.009	0	0
66	KICKER3	PX	-.006	-.006	0	0
67	KICKER2	PX	-.006	-.006	0	0
68	KICKER1	PX	-.006	-.006	0	0
69	FACE3	PX	-.023	-.023	0	0
70	FACE1	PX	-.023	-.023	0	0
71	FACE2	PX	-.013	-.013	0	0
72	CORNER	PX	-.01	-.01	0	0

Member Distributed Loads (BLC 8 : Wind Load (150))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PY	.01	.01	0	0
2	SUP1	PY	.01	.01	0	0
3	SO3	PY	.006	.006	0	0
4	SO2	PY	.006	.006	0	0
5	SO1	PY	.006	.006	0	0
6	RAIL3c	PY	.014	.014	0	0
7	RAIL3b	PY	.014	.014	0	0

Member Distributed Loads (BLC 8 : Wind Load (150)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
8	RAIL3a	PY	.014	.014	0	0
9	RAIL2c	PY	.014	.014	0	0
10	RAIL2b	PY	.014	.014	0	0
11	RAIL2a	PY	.014	.014	0	0
12	RAIL1c	PY	.008	.008	0	0
13	RAIL1b	PY	.008	.008	0	0
14	RAIL1a	PY	.008	.008	0	0
15	PLATE3	PY	.001	.001	0	0
16	PLATE2	PY	.001	.001	0	0
17	PLATE1	PY	.001	.001	0	0
18	MP GAMMA4	PY	.009	.009	0	0
19	MP GAMMA3	PY	.009	.009	0	0
20	MP GAMMA2	PY	.009	.009	0	0
21	MP GAMMA1	PY	.009	.009	0	0
22	MP BETA4	PY	.009	.009	0	0
23	MP BETA3	PY	.009	.009	0	0
24	MP BETA2	PY	.009	.009	0	0
25	MP BETA1	PY	.009	.009	0	0
26	MP ALPHA4	PY	.009	.009	0	0
27	MP ALPHA3	PY	.009	.009	0	0
28	MP ALPHA2	PY	.009	.009	0	0
29	MP ALPHA1	PY	.009	.009	0	0
30	KICKER3	PY	.006	.006	0	0
31	KICKER2	PY	.006	.006	0	0
32	KICKER1	PY	.006	.006	0	0
33	FACE3	PY	.023	.023	0	0
34	FACE1	PY	.023	.023	0	0
35	FACE2	PY	.013	.013	0	0
36	CORNER	PY	.01	.01	0	0
37	SUP2	PX	-.006	-.006	0	0
38	SUP1	PX	-.006	-.006	0	0
39	SO3	PX	-.004	-.004	0	0
40	SO2	PX	-.004	-.004	0	0
41	SO1	PX	-.004	-.004	0	0
42	RAIL3c	PX	-.008	-.008	0	0
43	RAIL3b	PX	-.008	-.008	0	0
44	RAIL3a	PX	-.008	-.008	0	0
45	RAIL2c	PX	-.008	-.008	0	0
46	RAIL2b	PX	-.008	-.008	0	0
47	RAIL2a	PX	-.008	-.008	0	0
48	RAIL1c	PX	-.005	-.005	0	0
49	RAIL1b	PX	-.005	-.005	0	0
50	RAIL1a	PX	-.005	-.005	0	0
51	PLATE3	PX	-.00075	-.00075	0	0
52	PLATE2	PX	-.00075	-.00075	0	0
53	PLATE1	PX	-.00075	-.00075	0	0
54	MP GAMMA4	PX	-.005	-.005	0	0
55	MP GAMMA3	PX	-.005	-.005	0	0
56	MP GAMMA2	PX	-.005	-.005	0	0
57	MP GAMMA1	PX	-.005	-.005	0	0
58	MP BETA4	PX	-.005	-.005	0	0
59	MP BETA3	PX	-.005	-.005	0	0
60	MP BETA2	PX	-.005	-.005	0	0
61	MP BETA1	PX	-.005	-.005	0	0
62	MP ALPHA4	PX	-.005	-.005	0	0
63	MP ALPHA3	PX	-.005	-.005	0	0
64	MP ALPHA2	PX	-.005	-.005	0	0

Member Distributed Loads (BLC 8 : Wind Load (150)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
65	MP ALPHA1	PX	-.005	-.005	0	0
66	KICKER3	PX	-.004	-.004	0	0
67	KICKER2	PX	-.004	-.004	0	0
68	KICKER1	PX	-.004	-.004	0	0
69	FACE3	PX	-.013	-.013	0	0
70	FACE1	PX	-.013	-.013	0	0
71	FACE2	PX	-.008	-.008	0	0
72	CORNER	PX	-.006	-.006	0	0

Member Distributed Loads (BLC 9 : Wind Load (180))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PY	.012	.012	0	0
2	SUP1	PY	.012	.012	0	0
3	SO3	PY	.008	.008	0	0
4	SO2	PY	.008	.008	0	0
5	SO1	PY	.008	.008	0	0
6	RAIL3c	PY	.016	.016	0	0
7	RAIL3b	PY	.016	.016	0	0
8	RAIL3a	PY	.016	.016	0	0
9	RAIL2c	PY	.016	.016	0	0
10	RAIL2b	PY	.016	.016	0	0
11	RAIL2a	PY	.016	.016	0	0
12	RAIL1c	PY	.009	.009	0	0
13	RAIL1b	PY	.009	.009	0	0
14	RAIL1a	PY	.009	.009	0	0
15	PLATE3	PY	.002	.002	0	0
16	PLATE2	PY	.002	.002	0	0
17	PLATE1	PY	.002	.002	0	0
18	MP GAMMA4	PY	.01	.01	0	0
19	MP GAMMA3	PY	.01	.01	0	0
20	MP GAMMA2	PY	.01	.01	0	0
21	MP GAMMA1	PY	.01	.01	0	0
22	MP BETA4	PY	.01	.01	0	0
23	MP BETA3	PY	.01	.01	0	0
24	MP BETA2	PY	.01	.01	0	0
25	MP BETA1	PY	.01	.01	0	0
26	MP ALPHA4	PY	.01	.01	0	0
27	MP ALPHA3	PY	.01	.01	0	0
28	MP ALPHA2	PY	.01	.01	0	0
29	MP ALPHA1	PY	.01	.01	0	0
30	KICKER3	PY	.008	.008	0	0
31	KICKER2	PY	.008	.008	0	0
32	KICKER1	PY	.008	.008	0	0
33	FACE3	PY	.027	.027	0	0
34	FACE1	PY	.027	.027	0	0
35	FACE2	PY	.015	.015	0	0
36	CORNER	PY	.012	.012	0	0

Member Distributed Loads (BLC 10 : Wind Load (210))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PY	.01	.01	0	0
2	SUP1	PY	.01	.01	0	0
3	SO3	PY	.006	.006	0	0
4	SO2	PY	.006	.006	0	0
5	SO1	PY	.006	.006	0	0
6	RAIL3c	PY	.014	.014	0	0

Member Distributed Loads (BLC 10 : Wind Load (210)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
7	RAIL3b	PY	.014	.014	0	0
8	RAIL3a	PY	.014	.014	0	0
9	RAIL2c	PY	.014	.014	0	0
10	RAIL2b	PY	.014	.014	0	0
11	RAIL2a	PY	.014	.014	0	0
12	RAIL1c	PY	.008	.008	0	0
13	RAIL1b	PY	.008	.008	0	0
14	RAIL1a	PY	.008	.008	0	0
15	PLATE3	PY	.001	.001	0	0
16	PLATE2	PY	.001	.001	0	0
17	PLATE1	PY	.001	.001	0	0
18	MP GAMMA4	PY	.009	.009	0	0
19	MP GAMMA3	PY	.009	.009	0	0
20	MP GAMMA2	PY	.009	.009	0	0
21	MP GAMMA1	PY	.009	.009	0	0
22	MP BETA4	PY	.009	.009	0	0
23	MP BETA3	PY	.009	.009	0	0
24	MP BETA2	PY	.009	.009	0	0
25	MP BETA1	PY	.009	.009	0	0
26	MP ALPHA4	PY	.009	.009	0	0
27	MP ALPHA3	PY	.009	.009	0	0
28	MP ALPHA2	PY	.009	.009	0	0
29	MP ALPHA1	PY	.009	.009	0	0
30	KICKER3	PY	.006	.006	0	0
31	KICKER2	PY	.006	.006	0	0
32	KICKER1	PY	.006	.006	0	0
33	FACE1	PY	.023	.023	0	0
34	FACE2	PY	.023	.023	0	0
35	FACE3	PY	.013	.013	0	0
36	CORNER	PY	.01	.01	0	0
37	SUP2	PX	.006	.006	0	0
38	SUP1	PX	.006	.006	0	0
39	SO3	PX	.004	.004	0	0
40	SO2	PX	.004	.004	0	0
41	SO1	PX	.004	.004	0	0
42	RAIL3c	PX	.008	.008	0	0
43	RAIL3b	PX	.008	.008	0	0
44	RAIL3a	PX	.008	.008	0	0
45	RAIL2c	PX	.008	.008	0	0
46	RAIL2b	PX	.008	.008	0	0
47	RAIL2a	PX	.008	.008	0	0
48	RAIL1c	PX	.005	.005	0	0
49	RAIL1b	PX	.005	.005	0	0
50	RAIL1a	PX	.005	.005	0	0
51	PLATE3	PX	.00075	.00075	0	0
52	PLATE2	PX	.00075	.00075	0	0
53	PLATE1	PX	.00075	.00075	0	0
54	MP GAMMA4	PX	.005	.005	0	0
55	MP GAMMA3	PX	.005	.005	0	0
56	MP GAMMA2	PX	.005	.005	0	0
57	MP GAMMA1	PX	.005	.005	0	0
58	MP BETA4	PX	.005	.005	0	0
59	MP BETA3	PX	.005	.005	0	0
60	MP BETA2	PX	.005	.005	0	0
61	MP BETA1	PX	.005	.005	0	0
62	MP ALPHA4	PX	.005	.005	0	0
63	MP ALPHA3	PX	.005	.005	0	0

Member Distributed Loads (BLC 10 : Wind Load (210)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
64	MP ALPHA2	PX	.005	.005	0	0
65	MP ALPHA1	PX	.005	.005	0	0
66	KICKER3	PX	.004	.004	0	0
67	KICKER2	PX	.004	.004	0	0
68	KICKER1	PX	.004	.004	0	0
69	FACE1	PX	.013	.013	0	0
70	FACE2	PX	.013	.013	0	0
71	FACE3	PX	.008	.008	0	0
72	CORNER	PX	.006	.006	0	0

Member Distributed Loads (BLC 11 : Wind Load (240))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PY	.006	.006	0	0
2	SUP1	PY	.006	.006	0	0
3	SO3	PY	.004	.004	0	0
4	SO2	PY	.004	.004	0	0
5	SO1	PY	.004	.004	0	0
6	RAIL3c	PY	.008	.008	0	0
7	RAIL3b	PY	.008	.008	0	0
8	RAIL3a	PY	.008	.008	0	0
9	RAIL2c	PY	.008	.008	0	0
10	RAIL2b	PY	.008	.008	0	0
11	RAIL2a	PY	.008	.008	0	0
12	RAIL1c	PY	.005	.005	0	0
13	RAIL1b	PY	.005	.005	0	0
14	RAIL1a	PY	.005	.005	0	0
15	PLATE3	PY	.00075	.00075	0	0
16	PLATE2	PY	.00075	.00075	0	0
17	PLATE1	PY	.00075	.00075	0	0
18	MP GAMMA4	PY	.005	.005	0	0
19	MP GAMMA3	PY	.005	.005	0	0
20	MP GAMMA2	PY	.005	.005	0	0
21	MP GAMMA1	PY	.005	.005	0	0
22	MP BETA4	PY	.005	.005	0	0
23	MP BETA3	PY	.005	.005	0	0
24	MP BETA2	PY	.005	.005	0	0
25	MP BETA1	PY	.005	.005	0	0
26	MP ALPHA4	PY	.005	.005	0	0
27	MP ALPHA3	PY	.005	.005	0	0
28	MP ALPHA2	PY	.005	.005	0	0
29	MP ALPHA1	PY	.005	.005	0	0
30	KICKER3	PY	.004	.004	0	0
31	KICKER2	PY	.004	.004	0	0
32	KICKER1	PY	.004	.004	0	0
33	FACE1	PY	.013	.013	0	0
34	FACE2	PY	.013	.013	0	0
35	FACE3	PY	.008	.008	0	0
36	CORNER	PY	.006	.006	0	0
37	SUP2	PX	.01	.01	0	0
38	SUP1	PX	.01	.01	0	0
39	SO3	PX	.006	.006	0	0
40	SO2	PX	.006	.006	0	0
41	SO1	PX	.006	.006	0	0
42	RAIL3c	PX	.014	.014	0	0
43	RAIL3b	PX	.014	.014	0	0
44	RAIL3a	PX	.014	.014	0	0

Member Distributed Loads (BLC 11 : Wind Load (240)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
45	RAIL2c	PX	.014	.014	0	0
46	RAIL2b	PX	.014	.014	0	0
47	RAIL2a	PX	.014	.014	0	0
48	RAIL1c	PX	.008	.008	0	0
49	RAIL1b	PX	.008	.008	0	0
50	RAIL1a	PX	.008	.008	0	0
51	PLATE3	PX	.001	.001	0	0
52	PLATE2	PX	.001	.001	0	0
53	PLATE1	PX	.001	.001	0	0
54	MP GAMMA4	PX	.009	.009	0	0
55	MP GAMMA3	PX	.009	.009	0	0
56	MP GAMMA2	PX	.009	.009	0	0
57	MP GAMMA1	PX	.009	.009	0	0
58	MP BETA4	PX	.009	.009	0	0
59	MP BETA3	PX	.009	.009	0	0
60	MP BETA2	PX	.009	.009	0	0
61	MP BETA1	PX	.009	.009	0	0
62	MP ALPHA4	PX	.009	.009	0	0
63	MP ALPHA3	PX	.009	.009	0	0
64	MP ALPHA2	PX	.009	.009	0	0
65	MP ALPHA1	PX	.009	.009	0	0
66	KICKER3	PX	.006	.006	0	0
67	KICKER2	PX	.006	.006	0	0
68	KICKER1	PX	.006	.006	0	0
69	FACE1	PX	.023	.023	0	0
70	FACE2	PX	.023	.023	0	0
71	FACE3	PX	.013	.013	0	0
72	CORNER	PX	.01	.01	0	0

Member Distributed Loads (BLC 12 : Wind Load (270))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PX	.012	.012	0	0
2	SUP1	PX	.012	.012	0	0
3	SO3	PX	.008	.008	0	0
4	SO2	PX	.008	.008	0	0
5	SO1	PX	.008	.008	0	0
6	RAIL3c	PX	.016	.016	0	0
7	RAIL3b	PX	.016	.016	0	0
8	RAIL3a	PX	.016	.016	0	0
9	RAIL2c	PX	.016	.016	0	0
10	RAIL2b	PX	.016	.016	0	0
11	RAIL2a	PX	.016	.016	0	0
12	RAIL1c	PX	.009	.009	0	0
13	RAIL1b	PX	.009	.009	0	0
14	RAIL1a	PX	.009	.009	0	0
15	PLATE3	PX	.002	.002	0	0
16	PLATE2	PX	.002	.002	0	0
17	PLATE1	PX	.002	.002	0	0
18	MP GAMMA4	PX	.01	.01	0	0
19	MP GAMMA3	PX	.01	.01	0	0
20	MP GAMMA2	PX	.01	.01	0	0
21	MP GAMMA1	PX	.01	.01	0	0
22	MP BETA4	PX	.01	.01	0	0
23	MP BETA3	PX	.01	.01	0	0
24	MP BETA2	PX	.01	.01	0	0
25	MP BETA1	PX	.01	.01	0	0

Member Distributed Loads (BLC 12 : Wind Load (270)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
26	MP ALPHA4	PX	.01	.01	0	0
27	MP ALPHA3	PX	.01	.01	0	0
28	MP ALPHA2	PX	.01	.01	0	0
29	MP ALPHA1	PX	.01	.01	0	0
30	KICKER3	PX	.008	.008	0	0
31	KICKER2	PX	.008	.008	0	0
32	KICKER1	PX	.008	.008	0	0
33	FACE1	PX	.027	.027	0	0
34	FACE2	PX	.027	.027	0	0
35	FACE3	PX	.015	.015	0	0
36	CORNER	PX	.012	.012	0	0

Member Distributed Loads (BLC 13 : Wind Load (300))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PY	-.006	-.006	0	0
2	SUP1	PY	-.006	-.006	0	0
3	SO3	PY	-.004	-.004	0	0
4	SO2	PY	-.004	-.004	0	0
5	SO1	PY	-.004	-.004	0	0
6	RAIL3c	PY	-.008	-.008	0	0
7	RAIL3b	PY	-.008	-.008	0	0
8	RAIL3a	PY	-.008	-.008	0	0
9	RAIL2c	PY	-.008	-.008	0	0
10	RAIL2b	PY	-.008	-.008	0	0
11	RAIL2a	PY	-.008	-.008	0	0
12	RAIL1c	PY	-.005	-.005	0	0
13	RAIL1b	PY	-.005	-.005	0	0
14	RAIL1a	PY	-.005	-.005	0	0
15	PLATE3	PY	-.00075	-.00075	0	0
16	PLATE2	PY	-.00075	-.00075	0	0
17	PLATE1	PY	-.00075	-.00075	0	0
18	MP GAMMA4	PY	-.005	-.005	0	0
19	MP GAMMA3	PY	-.005	-.005	0	0
20	MP GAMMA2	PY	-.005	-.005	0	0
21	MP GAMMA1	PY	-.005	-.005	0	0
22	MP BETA4	PY	-.005	-.005	0	0
23	MP BETA3	PY	-.005	-.005	0	0
24	MP BETA2	PY	-.005	-.005	0	0
25	MP BETA1	PY	-.005	-.005	0	0
26	MP ALPHA4	PY	-.005	-.005	0	0
27	MP ALPHA3	PY	-.005	-.005	0	0
28	MP ALPHA2	PY	-.005	-.005	0	0
29	MP ALPHA1	PY	-.005	-.005	0	0
30	KICKER3	PY	-.004	-.004	0	0
31	KICKER2	PY	-.004	-.004	0	0
32	KICKER1	PY	-.004	-.004	0	0
33	FACE1	PY	-.013	-.013	0	0
34	FACE2	PY	-.013	-.013	0	0
35	FACE3	PY	-.008	-.008	0	0
36	CORNER	PY	-.006	-.006	0	0
37	SUP2	PX	.01	.01	0	0
38	SUP1	PX	.01	.01	0	0
39	SO3	PX	.006	.006	0	0
40	SO2	PX	.006	.006	0	0
41	SO1	PX	.006	.006	0	0
42	RAIL3c	PX	.014	.014	0	0

Member Distributed Loads (BLC 13 : Wind Load (300)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
43	RAIL3b	PX	.014	.014	0	0
44	RAIL3a	PX	.014	.014	0	0
45	RAIL2c	PX	.014	.014	0	0
46	RAIL2b	PX	.014	.014	0	0
47	RAIL2a	PX	.014	.014	0	0
48	RAIL1c	PX	.008	.008	0	0
49	RAIL1b	PX	.008	.008	0	0
50	RAIL1a	PX	.008	.008	0	0
51	PLATE3	PX	.001	.001	0	0
52	PLATE2	PX	.001	.001	0	0
53	PLATE1	PX	.001	.001	0	0
54	MP GAMMA4	PX	.009	.009	0	0
55	MP GAMMA3	PX	.009	.009	0	0
56	MP GAMMA2	PX	.009	.009	0	0
57	MP GAMMA1	PX	.009	.009	0	0
58	MP BETA4	PX	.009	.009	0	0
59	MP BETA3	PX	.009	.009	0	0
60	MP BETA2	PX	.009	.009	0	0
61	MP BETA1	PX	.009	.009	0	0
62	MP ALPHA4	PX	.009	.009	0	0
63	MP ALPHA3	PX	.009	.009	0	0
64	MP ALPHA2	PX	.009	.009	0	0
65	MP ALPHA1	PX	.009	.009	0	0
66	KICKER3	PX	.006	.006	0	0
67	KICKER2	PX	.006	.006	0	0
68	KICKER1	PX	.006	.006	0	0
69	FACE1	PX	.023	.023	0	0
70	FACE2	PX	.023	.023	0	0
71	FACE3	PX	.013	.013	0	0
72	CORNER	PX	.01	.01	0	0

Member Distributed Loads (BLC 14 : Wind Load (330))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PY	-.01	-.01	0	0
2	SUP1	PY	-.01	-.01	0	0
3	SO3	PY	-.006	-.006	0	0
4	SO2	PY	-.006	-.006	0	0
5	SO1	PY	-.006	-.006	0	0
6	RAIL3c	PY	-.014	-.014	0	0
7	RAIL3b	PY	-.014	-.014	0	0
8	RAIL3a	PY	-.014	-.014	0	0
9	RAIL2c	PY	-.014	-.014	0	0
10	RAIL2b	PY	-.014	-.014	0	0
11	RAIL2a	PY	-.014	-.014	0	0
12	RAIL1c	PY	-.008	-.008	0	0
13	RAIL1b	PY	-.008	-.008	0	0
14	RAIL1a	PY	-.008	-.008	0	0
15	PLATE3	PY	-.001	-.001	0	0
16	PLATE2	PY	-.001	-.001	0	0
17	PLATE1	PY	-.001	-.001	0	0
18	MP GAMMA4	PY	-.009	-.009	0	0
19	MP GAMMA3	PY	-.009	-.009	0	0
20	MP GAMMA2	PY	-.009	-.009	0	0
21	MP GAMMA1	PY	-.009	-.009	0	0
22	MP BETA4	PY	-.009	-.009	0	0
23	MP BETA3	PY	-.009	-.009	0	0

Member Distributed Loads (BLC 14 : Wind Load (330)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
24	MP BETA2	PY	-.009	-.009	0	0
25	MP BETA1	PY	-.009	-.009	0	0
26	MP ALPHA4	PY	-.009	-.009	0	0
27	MP ALPHA3	PY	-.009	-.009	0	0
28	MP ALPHA2	PY	-.009	-.009	0	0
29	MP ALPHA1	PY	-.009	-.009	0	0
30	KICKER3	PY	-.006	-.006	0	0
31	KICKER2	PY	-.006	-.006	0	0
32	KICKER1	PY	-.006	-.006	0	0
33	FACE3	PY	-.023	-.023	0	0
34	FACE2	PY	-.023	-.023	0	0
35	FACE1	PY	-.013	-.013	0	0
36	CORNER	PY	-.01	-.01	0	0
37	SUP2	PX	.006	.006	0	0
38	SUP1	PX	.006	.006	0	0
39	SO3	PX	.004	.004	0	0
40	SO2	PX	.004	.004	0	0
41	SO1	PX	.004	.004	0	0
42	RAIL3c	PX	.008	.008	0	0
43	RAIL3b	PX	.008	.008	0	0
44	RAIL3a	PX	.008	.008	0	0
45	RAIL2c	PX	.008	.008	0	0
46	RAIL2b	PX	.008	.008	0	0
47	RAIL2a	PX	.008	.008	0	0
48	RAIL1c	PX	.005	.005	0	0
49	RAIL1b	PX	.005	.005	0	0
50	RAIL1a	PX	.005	.005	0	0
51	PLATE3	PX	.00075	.00075	0	0
52	PLATE2	PX	.00075	.00075	0	0
53	PLATE1	PX	.00075	.00075	0	0
54	MP GAMMA4	PX	.005	.005	0	0
55	MP GAMMA3	PX	.005	.005	0	0
56	MP GAMMA2	PX	.005	.005	0	0
57	MP GAMMA1	PX	.005	.005	0	0
58	MP BETA4	PX	.005	.005	0	0
59	MP BETA3	PX	.005	.005	0	0
60	MP BETA2	PX	.005	.005	0	0
61	MP BETA1	PX	.005	.005	0	0
62	MP ALPHA4	PX	.005	.005	0	0
63	MP ALPHA3	PX	.005	.005	0	0
64	MP ALPHA2	PX	.005	.005	0	0
65	MP ALPHA1	PX	.005	.005	0	0
66	KICKER3	PX	.004	.004	0	0
67	KICKER2	PX	.004	.004	0	0
68	KICKER1	PX	.004	.004	0	0
69	FACE3	PX	.013	.013	0	0
70	FACE2	PX	.013	.013	0	0
71	FACE1	PX	.008	.008	0	0
72	CORNER	PX	.006	.006	0	0

Member Distributed Loads (BLC 15 : Maintanence (0))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PY	-.000692	-.000692	0	0
2	SUP1	PY	-.000692	-.000692	0	0
3	SO3	PY	-.000432	-.000432	0	0
4	SO2	PY	-.000432	-.000432	0	0

Member Distributed Loads (BLC 15 : Maintanence (0)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
5	SO1	PY	-.000432	-.000432	0	0
6	RAIL3c	PY	-.000928	-.000928	0	0
7	RAIL3b	PY	-.000928	-.000928	0	0
8	RAIL3a	PY	-.000928	-.000928	0	0
9	RAIL2c	PY	-.000928	-.000928	0	0
10	RAIL2b	PY	-.000928	-.000928	0	0
11	RAIL2a	PY	-.000928	-.000928	0	0
12	RAIL1c	PY	-.000519	-.000519	0	0
13	RAIL1b	PY	-.000519	-.000519	0	0
14	RAIL1a	PY	-.000519	-.000519	0	0
15	PLATE3	PY	-8.6e-5	-8.6e-5	0	0
16	PLATE2	PY	-8.6e-5	-8.6e-5	0	0
17	PLATE1	PY	-8.6e-5	-8.6e-5	0	0
18	MP GAMMA4	PY	-.000599	-.000599	0	0
19	MP GAMMA3	PY	-.000599	-.000599	0	0
20	MP GAMMA2	PY	-.000599	-.000599	0	0
21	MP GAMMA1	PY	-.000599	-.000599	0	0
22	MP BETA4	PY	-.000599	-.000599	0	0
23	MP BETA3	PY	-.000599	-.000599	0	0
24	MP BETA2	PY	-.000599	-.000599	0	0
25	MP BETA1	PY	-.000599	-.000599	0	0
26	MP ALPHA4	PY	-.000599	-.000599	0	0
27	MP ALPHA3	PY	-.000599	-.000599	0	0
28	MP ALPHA2	PY	-.000599	-.000599	0	0
29	MP ALPHA1	PY	-.000599	-.000599	0	0
30	KICKER3	PY	-.000432	-.000432	0	0
31	KICKER2	PY	-.000432	-.000432	0	0
32	KICKER1	PY	-.000432	-.000432	0	0
33	FACE3	PY	-.002	-.002	0	0
34	FACE2	PY	-.002	-.002	0	0
35	FACE1	PY	-.000865	-.000865	0	0
36	CORNER	PY	-.000692	-.000692	0	0

Member Distributed Loads (BLC 16 : Maintanence (30))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PY	-.000599	-.000599	0	0
2	SUP1	PY	-.000599	-.000599	0	0
3	SO3	PY	-.000374	-.000374	0	0
4	SO2	PY	-.000374	-.000374	0	0
5	SO1	PY	-.000374	-.000374	0	0
6	RAIL3c	PY	-.000803	-.000803	0	0
7	RAIL3b	PY	-.000803	-.000803	0	0
8	RAIL3a	PY	-.000803	-.000803	0	0
9	RAIL2c	PY	-.000803	-.000803	0	0
10	RAIL2b	PY	-.000803	-.000803	0	0
11	RAIL2a	PY	-.000803	-.000803	0	0
12	RAIL1c	PY	-.000449	-.000449	0	0
13	RAIL1b	PY	-.000449	-.000449	0	0
14	RAIL1a	PY	-.000449	-.000449	0	0
15	PLATE3	PY	-7.5e-5	-7.5e-5	0	0
16	PLATE2	PY	-7.5e-5	-7.5e-5	0	0
17	PLATE1	PY	-7.5e-5	-7.5e-5	0	0
18	MP GAMMA4	PY	-.000519	-.000519	0	0
19	MP GAMMA3	PY	-.000519	-.000519	0	0
20	MP GAMMA2	PY	-.000519	-.000519	0	0
21	MP GAMMA1	PY	-.000519	-.000519	0	0

Member Distributed Loads (BLC 16 : Maintanence (30)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
22	MP BETA4	PY	-.000519	-.000519	0	0
23	MP BETA3	PY	-.000519	-.000519	0	0
24	MP BETA2	PY	-.000519	-.000519	0	0
25	MP BETA1	PY	-.000519	-.000519	0	0
26	MP ALPHA4	PY	-.000519	-.000519	0	0
27	MP ALPHA3	PY	-.000519	-.000519	0	0
28	MP ALPHA2	PY	-.000519	-.000519	0	0
29	MP ALPHA1	PY	-.000519	-.000519	0	0
30	KICKER3	PY	-.000374	-.000374	0	0
31	KICKER2	PY	-.000374	-.000374	0	0
32	KICKER1	PY	-.000374	-.000374	0	0
33	FACE3	PY	-.001	-.001	0	0
34	FACE2	PY	-.001	-.001	0	0
35	FACE1	PY	-.000749	-.000749	0	0
36	CORNER	PY	-.000599	-.000599	0	0
37	SUP2	PX	-.000346	-.000346	0	0
38	SUP1	PX	-.000346	-.000346	0	0
39	SO3	PX	-.000216	-.000216	0	0
40	SO2	PX	-.000216	-.000216	0	0
41	SO1	PX	-.000216	-.000216	0	0
42	RAIL3c	PX	-.000464	-.000464	0	0
43	RAIL3b	PX	-.000464	-.000464	0	0
44	RAIL3a	PX	-.000464	-.000464	0	0
45	RAIL2c	PX	-.000464	-.000464	0	0
46	RAIL2b	PX	-.000464	-.000464	0	0
47	RAIL2a	PX	-.000464	-.000464	0	0
48	RAIL1c	PX	-.000259	-.000259	0	0
49	RAIL1b	PX	-.000259	-.000259	0	0
50	RAIL1a	PX	-.000259	-.000259	0	0
51	PLATE3	PX	-4.3e-5	-4.3e-5	0	0
52	PLATE2	PX	-4.3e-5	-4.3e-5	0	0
53	PLATE1	PX	-4.3e-5	-4.3e-5	0	0
54	MP GAMMA4	PX	-.0003	-.0003	0	0
55	MP GAMMA3	PX	-.0003	-.0003	0	0
56	MP GAMMA2	PX	-.0003	-.0003	0	0
57	MP GAMMA1	PX	-.0003	-.0003	0	0
58	MP BETA4	PX	-.0003	-.0003	0	0
59	MP BETA3	PX	-.0003	-.0003	0	0
60	MP BETA2	PX	-.0003	-.0003	0	0
61	MP BETA1	PX	-.0003	-.0003	0	0
62	MP ALPHA4	PX	-.0003	-.0003	0	0
63	MP ALPHA3	PX	-.0003	-.0003	0	0
64	MP ALPHA2	PX	-.0003	-.0003	0	0
65	MP ALPHA1	PX	-.0003	-.0003	0	0
66	KICKER3	PX	-.000216	-.000216	0	0
67	KICKER2	PX	-.000216	-.000216	0	0
68	KICKER1	PX	-.000216	-.000216	0	0
69	FACE3	PX	-.000773	-.000773	0	0
70	FACE2	PX	-.000773	-.000773	0	0
71	FACE1	PX	-.000432	-.000432	0	0
72	CORNER	PX	-.000346	-.000346	0	0

Member Distributed Loads (BLC 17 : Maintanence (60))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PY	-.000346	-.000346	0	0
2	SUP1	PY	-.000346	-.000346	0	0

Member Distributed Loads (BLC 17 : Maintanence (60)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
3	SO3	PY	-.000216	-.000216	0	0
4	SO2	PY	-.000216	-.000216	0	0
5	SO1	PY	-.000216	-.000216	0	0
6	RAIL3c	PY	-.000464	-.000464	0	0
7	RAIL3b	PY	-.000464	-.000464	0	0
8	RAIL3a	PY	-.000464	-.000464	0	0
9	RAIL2c	PY	-.000464	-.000464	0	0
10	RAIL2b	PY	-.000464	-.000464	0	0
11	RAIL2a	PY	-.000464	-.000464	0	0
12	RAIL1c	PY	-.000259	-.000259	0	0
13	RAIL1b	PY	-.000259	-.000259	0	0
14	RAIL1a	PY	-.000259	-.000259	0	0
15	PLATE3	PY	-4.3e-5	-4.3e-5	0	0
16	PLATE2	PY	-4.3e-5	-4.3e-5	0	0
17	PLATE1	PY	-4.3e-5	-4.3e-5	0	0
18	MP GAMMA4	PY	-.0003	-.0003	0	0
19	MP GAMMA3	PY	-.0003	-.0003	0	0
20	MP GAMMA2	PY	-.0003	-.0003	0	0
21	MP GAMMA1	PY	-.0003	-.0003	0	0
22	MP BETA4	PY	-.0003	-.0003	0	0
23	MP BETA3	PY	-.0003	-.0003	0	0
24	MP BETA2	PY	-.0003	-.0003	0	0
25	MP BETA1	PY	-.0003	-.0003	0	0
26	MP ALPHA4	PY	-.0003	-.0003	0	0
27	MP ALPHA3	PY	-.0003	-.0003	0	0
28	MP ALPHA2	PY	-.0003	-.0003	0	0
29	MP ALPHA1	PY	-.0003	-.0003	0	0
30	KICKER3	PY	-.000216	-.000216	0	0
31	KICKER2	PY	-.000216	-.000216	0	0
32	KICKER1	PY	-.000216	-.000216	0	0
33	FACE3	PY	-.000773	-.000773	0	0
34	FACE2	PY	-.000773	-.000773	0	0
35	FACE1	PY	-.000432	-.000432	0	0
36	CORNER	PY	-.000346	-.000346	0	0
37	SUP2	PX	-.000599	-.000599	0	0
38	SUP1	PX	-.000599	-.000599	0	0
39	SO3	PX	-.000374	-.000374	0	0
40	SO2	PX	-.000374	-.000374	0	0
41	SO1	PX	-.000374	-.000374	0	0
42	RAIL3c	PX	-.000803	-.000803	0	0
43	RAIL3b	PX	-.000803	-.000803	0	0
44	RAIL3a	PX	-.000803	-.000803	0	0
45	RAIL2c	PX	-.000803	-.000803	0	0
46	RAIL2b	PX	-.000803	-.000803	0	0
47	RAIL2a	PX	-.000803	-.000803	0	0
48	RAIL1c	PX	-.000449	-.000449	0	0
49	RAIL1b	PX	-.000449	-.000449	0	0
50	RAIL1a	PX	-.000449	-.000449	0	0
51	PLATE3	PX	-7.5e-5	-7.5e-5	0	0
52	PLATE2	PX	-7.5e-5	-7.5e-5	0	0
53	PLATE1	PX	-7.5e-5	-7.5e-5	0	0
54	MP GAMMA4	PX	-.000519	-.000519	0	0
55	MP GAMMA3	PX	-.000519	-.000519	0	0
56	MP GAMMA2	PX	-.000519	-.000519	0	0
57	MP GAMMA1	PX	-.000519	-.000519	0	0
58	MP BETA4	PX	-.000519	-.000519	0	0
59	MP BETA3	PX	-.000519	-.000519	0	0

Member Distributed Loads (BLC 17 : Maintanence (60)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
60	MP BETA2	PX	-.000519	-.000519	0	0
61	MP BETA1	PX	-.000519	-.000519	0	0
62	MP ALPHA4	PX	-.000519	-.000519	0	0
63	MP ALPHA3	PX	-.000519	-.000519	0	0
64	MP ALPHA2	PX	-.000519	-.000519	0	0
65	MP ALPHA1	PX	-.000519	-.000519	0	0
66	KICKER3	PX	-.000374	-.000374	0	0
67	KICKER2	PX	-.000374	-.000374	0	0
68	KICKER1	PX	-.000374	-.000374	0	0
69	FACE3	PX	-.001	-.001	0	0
70	FACE2	PX	-.001	-.001	0	0
71	FACE1	PX	-.000749	-.000749	0	0
72	CORNER	PX	-.000599	-.000599	0	0

Member Distributed Loads (BLC 18 : Maintanence (90))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PX	-.000692	-.000692	0	0
2	SUP1	PX	-.000692	-.000692	0	0
3	SO3	PX	-.000432	-.000432	0	0
4	SO2	PX	-.000432	-.000432	0	0
5	SO1	PX	-.000432	-.000432	0	0
6	RAIL3c	PX	-.000928	-.000928	0	0
7	RAIL3b	PX	-.000928	-.000928	0	0
8	RAIL3a	PX	-.000928	-.000928	0	0
9	RAIL2c	PX	-.000928	-.000928	0	0
10	RAIL2b	PX	-.000928	-.000928	0	0
11	RAIL2a	PX	-.000928	-.000928	0	0
12	RAIL1c	PX	-.000519	-.000519	0	0
13	RAIL1b	PX	-.000519	-.000519	0	0
14	RAIL1a	PX	-.000519	-.000519	0	0
15	PLATE3	PX	-8.6e-5	-8.6e-5	0	0
16	PLATE2	PX	-8.6e-5	-8.6e-5	0	0
17	PLATE1	PX	-8.6e-5	-8.6e-5	0	0
18	MP GAMMA4	PX	-.000599	-.000599	0	0
19	MP GAMMA3	PX	-.000599	-.000599	0	0
20	MP GAMMA2	PX	-.000599	-.000599	0	0
21	MP GAMMA1	PX	-.000599	-.000599	0	0
22	MP BETA4	PX	-.000599	-.000599	0	0
23	MP BETA3	PX	-.000599	-.000599	0	0
24	MP BETA2	PX	-.000599	-.000599	0	0
25	MP BETA1	PX	-.000599	-.000599	0	0
26	MP ALPHA4	PX	-.000599	-.000599	0	0
27	MP ALPHA3	PX	-.000599	-.000599	0	0
28	MP ALPHA2	PX	-.000599	-.000599	0	0
29	MP ALPHA1	PX	-.000599	-.000599	0	0
30	KICKER3	PX	-.000432	-.000432	0	0
31	KICKER2	PX	-.000432	-.000432	0	0
32	KICKER1	PX	-.000432	-.000432	0	0
33	FACE3	PX	-.002	-.002	0	0
34	FACE1	PX	-.002	-.002	0	0
35	FACE2	PX	-.000865	-.000865	0	0
36	CORNER	PX	-.000692	-.000692	0	0

Member Distributed Loads (BLC 19 : Maintanence (120))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PY	.000346	.000346	0	0

Member Distributed Loads (BLC 19 : Maintanence (120)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
2	SUP1	PY	.000346	.000346	0	0
3	SO3	PY	.000216	.000216	0	0
4	SO2	PY	.000216	.000216	0	0
5	SO1	PY	.000216	.000216	0	0
6	RAIL3c	PY	.000464	.000464	0	0
7	RAIL3b	PY	.000464	.000464	0	0
8	RAIL3a	PY	.000464	.000464	0	0
9	RAIL2c	PY	.000464	.000464	0	0
10	RAIL2b	PY	.000464	.000464	0	0
11	RAIL2a	PY	.000464	.000464	0	0
12	RAIL1c	PY	.000259	.000259	0	0
13	RAIL1b	PY	.000259	.000259	0	0
14	RAIL1a	PY	.000259	.000259	0	0
15	PLATE3	PY	4.3e-5	4.3e-5	0	0
16	PLATE2	PY	4.3e-5	4.3e-5	0	0
17	PLATE1	PY	4.3e-5	4.3e-5	0	0
18	MP GAMMA4	PY	.0003	.0003	0	0
19	MP GAMMA3	PY	.0003	.0003	0	0
20	MP GAMMA2	PY	.0003	.0003	0	0
21	MP GAMMA1	PY	.0003	.0003	0	0
22	MP BETA4	PY	.0003	.0003	0	0
23	MP BETA3	PY	.0003	.0003	0	0
24	MP BETA2	PY	.0003	.0003	0	0
25	MP BETA1	PY	.0003	.0003	0	0
26	MP ALPHA4	PY	.0003	.0003	0	0
27	MP ALPHA3	PY	.0003	.0003	0	0
28	MP ALPHA2	PY	.0003	.0003	0	0
29	MP ALPHA1	PY	.0003	.0003	0	0
30	KICKER3	PY	.000216	.000216	0	0
31	KICKER2	PY	.000216	.000216	0	0
32	KICKER1	PY	.000216	.000216	0	0
33	FACE3	PY	.000773	.000773	0	0
34	FACE1	PY	.000773	.000773	0	0
35	FACE2	PY	.000432	.000432	0	0
36	CORNER	PY	.000346	.000346	0	0
37	SUP2	PX	-.000599	-.000599	0	0
38	SUP1	PX	-.000599	-.000599	0	0
39	SO3	PX	-.000374	-.000374	0	0
40	SO2	PX	-.000374	-.000374	0	0
41	SO1	PX	-.000374	-.000374	0	0
42	RAIL3c	PX	-.000803	-.000803	0	0
43	RAIL3b	PX	-.000803	-.000803	0	0
44	RAIL3a	PX	-.000803	-.000803	0	0
45	RAIL2c	PX	-.000803	-.000803	0	0
46	RAIL2b	PX	-.000803	-.000803	0	0
47	RAIL2a	PX	-.000803	-.000803	0	0
48	RAIL1c	PX	-.000449	-.000449	0	0
49	RAIL1b	PX	-.000449	-.000449	0	0
50	RAIL1a	PX	-.000449	-.000449	0	0
51	PLATE3	PX	-7.5e-5	-7.5e-5	0	0
52	PLATE2	PX	-7.5e-5	-7.5e-5	0	0
53	PLATE1	PX	-7.5e-5	-7.5e-5	0	0
54	MP GAMMA4	PX	-.000519	-.000519	0	0
55	MP GAMMA3	PX	-.000519	-.000519	0	0
56	MP GAMMA2	PX	-.000519	-.000519	0	0
57	MP GAMMA1	PX	-.000519	-.000519	0	0
58	MP BETA4	PX	-.000519	-.000519	0	0

Member Distributed Loads (BLC 19 : Maintanence (120)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
59	MP BETA3	PX	-.000519	-.000519	0	0
60	MP BETA2	PX	-.000519	-.000519	0	0
61	MP BETA1	PX	-.000519	-.000519	0	0
62	MP ALPHA4	PX	-.000519	-.000519	0	0
63	MP ALPHA3	PX	-.000519	-.000519	0	0
64	MP ALPHA2	PX	-.000519	-.000519	0	0
65	MP ALPHA1	PX	-.000519	-.000519	0	0
66	KICKER3	PX	-.000374	-.000374	0	0
67	KICKER2	PX	-.000374	-.000374	0	0
68	KICKER1	PX	-.000374	-.000374	0	0
69	FACE3	PX	-.001	-.001	0	0
70	FACE1	PX	-.001	-.001	0	0
71	FACE2	PX	-.000749	-.000749	0	0
72	CORNER	PX	-.000599	-.000599	0	0

Member Distributed Loads (BLC 20 : Maintanence (150))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PY	.000599	.000599	0	0
2	SUP1	PY	.000599	.000599	0	0
3	SO3	PY	.000374	.000374	0	0
4	SO2	PY	.000374	.000374	0	0
5	SO1	PY	.000374	.000374	0	0
6	RAIL3c	PY	.000803	.000803	0	0
7	RAIL3b	PY	.000803	.000803	0	0
8	RAIL3a	PY	.000803	.000803	0	0
9	RAIL2c	PY	.000803	.000803	0	0
10	RAIL2b	PY	.000803	.000803	0	0
11	RAIL2a	PY	.000803	.000803	0	0
12	RAIL1c	PY	.000449	.000449	0	0
13	RAIL1b	PY	.000449	.000449	0	0
14	RAIL1a	PY	.000449	.000449	0	0
15	PLATE3	PY	7.5e-5	7.5e-5	0	0
16	PLATE2	PY	7.5e-5	7.5e-5	0	0
17	PLATE1	PY	7.5e-5	7.5e-5	0	0
18	MP GAMMA4	PY	.000519	.000519	0	0
19	MP GAMMA3	PY	.000519	.000519	0	0
20	MP GAMMA2	PY	.000519	.000519	0	0
21	MP GAMMA1	PY	.000519	.000519	0	0
22	MP BETA4	PY	.000519	.000519	0	0
23	MP BETA3	PY	.000519	.000519	0	0
24	MP BETA2	PY	.000519	.000519	0	0
25	MP BETA1	PY	.000519	.000519	0	0
26	MP ALPHA4	PY	.000519	.000519	0	0
27	MP ALPHA3	PY	.000519	.000519	0	0
28	MP ALPHA2	PY	.000519	.000519	0	0
29	MP ALPHA1	PY	.000519	.000519	0	0
30	KICKER3	PY	.000374	.000374	0	0
31	KICKER2	PY	.000374	.000374	0	0
32	KICKER1	PY	.000374	.000374	0	0
33	FACE3	PY	.001	.001	0	0
34	FACE1	PY	.001	.001	0	0
35	FACE2	PY	.000749	.000749	0	0
36	CORNER	PY	.000599	.000599	0	0
37	SUP2	PX	-.000346	-.000346	0	0
38	SUP1	PX	-.000346	-.000346	0	0
39	SO3	PX	-.000216	-.000216	0	0

Member Distributed Loads (BLC 20 : Maintanence (150)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
40	SO2	PX	-.000216	-.000216	0	0
41	SO1	PX	-.000216	-.000216	0	0
42	RAIL3c	PX	-.000464	-.000464	0	0
43	RAIL3b	PX	-.000464	-.000464	0	0
44	RAIL3a	PX	-.000464	-.000464	0	0
45	RAIL2c	PX	-.000464	-.000464	0	0
46	RAIL2b	PX	-.000464	-.000464	0	0
47	RAIL2a	PX	-.000464	-.000464	0	0
48	RAIL1c	PX	-.000259	-.000259	0	0
49	RAIL1b	PX	-.000259	-.000259	0	0
50	RAIL1a	PX	-.000259	-.000259	0	0
51	PLATE3	PX	-4.3e-5	-4.3e-5	0	0
52	PLATE2	PX	-4.3e-5	-4.3e-5	0	0
53	PLATE1	PX	-4.3e-5	-4.3e-5	0	0
54	MP GAMMA4	PX	-.0003	-.0003	0	0
55	MP GAMMA3	PX	-.0003	-.0003	0	0
56	MP GAMMA2	PX	-.0003	-.0003	0	0
57	MP GAMMA1	PX	-.0003	-.0003	0	0
58	MP BETA4	PX	-.0003	-.0003	0	0
59	MP BETA3	PX	-.0003	-.0003	0	0
60	MP BETA2	PX	-.0003	-.0003	0	0
61	MP BETA1	PX	-.0003	-.0003	0	0
62	MP ALPHA4	PX	-.0003	-.0003	0	0
63	MP ALPHA3	PX	-.0003	-.0003	0	0
64	MP ALPHA2	PX	-.0003	-.0003	0	0
65	MP ALPHA1	PX	-.0003	-.0003	0	0
66	KICKER3	PX	-.000216	-.000216	0	0
67	KICKER2	PX	-.000216	-.000216	0	0
68	KICKER1	PX	-.000216	-.000216	0	0
69	FACE3	PX	-.000773	-.000773	0	0
70	FACE1	PX	-.000773	-.000773	0	0
71	FACE2	PX	-.000432	-.000432	0	0
72	CORNER	PX	-.000346	-.000346	0	0

Member Distributed Loads (BLC 21 : Maintanence (180))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PY	.000692	.000692	0	0
2	SUP1	PY	.000692	.000692	0	0
3	SO3	PY	.000432	.000432	0	0
4	SO2	PY	.000432	.000432	0	0
5	SO1	PY	.000432	.000432	0	0
6	RAIL3c	PY	.000928	.000928	0	0
7	RAIL3b	PY	.000928	.000928	0	0
8	RAIL3a	PY	.000928	.000928	0	0
9	RAIL2c	PY	.000928	.000928	0	0
10	RAIL2b	PY	.000928	.000928	0	0
11	RAIL2a	PY	.000928	.000928	0	0
12	RAIL1c	PY	.000519	.000519	0	0
13	RAIL1b	PY	.000519	.000519	0	0
14	RAIL1a	PY	.000519	.000519	0	0
15	PLATE3	PY	8.6e-5	8.6e-5	0	0
16	PLATE2	PY	8.6e-5	8.6e-5	0	0
17	PLATE1	PY	8.6e-5	8.6e-5	0	0
18	MP GAMMA4	PY	.000599	.000599	0	0
19	MP GAMMA3	PY	.000599	.000599	0	0
20	MP GAMMA2	PY	.000599	.000599	0	0

Member Distributed Loads (BLC 21 : Maintanence (180)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
21	MP GAMMA1	PY	.000599	.000599	0	0
22	MP BETA4	PY	.000599	.000599	0	0
23	MP BETA3	PY	.000599	.000599	0	0
24	MP BETA2	PY	.000599	.000599	0	0
25	MP BETA1	PY	.000599	.000599	0	0
26	MP ALPHA4	PY	.000599	.000599	0	0
27	MP ALPHA3	PY	.000599	.000599	0	0
28	MP ALPHA2	PY	.000599	.000599	0	0
29	MP ALPHA1	PY	.000599	.000599	0	0
30	KICKER3	PY	.000432	.000432	0	0
31	KICKER2	PY	.000432	.000432	0	0
32	KICKER1	PY	.000432	.000432	0	0
33	FACE3	PY	.002	.002	0	0
34	FACE1	PY	.002	.002	0	0
35	FACE2	PY	.000865	.000865	0	0
36	CORNER	PY	.000692	.000692	0	0

Member Distributed Loads (BLC 22 : Maintanence (210))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PY	.000599	.000599	0	0
2	SUP1	PY	.000599	.000599	0	0
3	SO3	PY	.000374	.000374	0	0
4	SO2	PY	.000374	.000374	0	0
5	SO1	PY	.000374	.000374	0	0
6	RAIL3c	PY	.000803	.000803	0	0
7	RAIL3b	PY	.000803	.000803	0	0
8	RAIL3a	PY	.000803	.000803	0	0
9	RAIL2c	PY	.000803	.000803	0	0
10	RAIL2b	PY	.000803	.000803	0	0
11	RAIL2a	PY	.000803	.000803	0	0
12	RAIL1c	PY	.000449	.000449	0	0
13	RAIL1b	PY	.000449	.000449	0	0
14	RAIL1a	PY	.000449	.000449	0	0
15	PLATE3	PY	7.5e-5	7.5e-5	0	0
16	PLATE2	PY	7.5e-5	7.5e-5	0	0
17	PLATE1	PY	7.5e-5	7.5e-5	0	0
18	MP GAMMA4	PY	.000519	.000519	0	0
19	MP GAMMA3	PY	.000519	.000519	0	0
20	MP GAMMA2	PY	.000519	.000519	0	0
21	MP GAMMA1	PY	.000519	.000519	0	0
22	MP BETA4	PY	.000519	.000519	0	0
23	MP BETA3	PY	.000519	.000519	0	0
24	MP BETA2	PY	.000519	.000519	0	0
25	MP BETA1	PY	.000519	.000519	0	0
26	MP ALPHA4	PY	.000519	.000519	0	0
27	MP ALPHA3	PY	.000519	.000519	0	0
28	MP ALPHA2	PY	.000519	.000519	0	0
29	MP ALPHA1	PY	.000519	.000519	0	0
30	KICKER3	PY	.000374	.000374	0	0
31	KICKER2	PY	.000374	.000374	0	0
32	KICKER1	PY	.000374	.000374	0	0
33	FACE1	PY	.001	.001	0	0
34	FACE2	PY	.001	.001	0	0
35	FACE3	PY	.000749	.000749	0	0
36	CORNER	PY	.000599	.000599	0	0
37	SUP2	PX	.000346	.000346	0	0

Member Distributed Loads (BLC 22 : Maintanence (210)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
38	SUP1	PX	.000346	.000346	0	0
39	SO3	PX	.000216	.000216	0	0
40	SO2	PX	.000216	.000216	0	0
41	SO1	PX	.000216	.000216	0	0
42	RAIL3c	PX	.000464	.000464	0	0
43	RAIL3b	PX	.000464	.000464	0	0
44	RAIL3a	PX	.000464	.000464	0	0
45	RAIL2c	PX	.000464	.000464	0	0
46	RAIL2b	PX	.000464	.000464	0	0
47	RAIL2a	PX	.000464	.000464	0	0
48	RAIL1c	PX	.000259	.000259	0	0
49	RAIL1b	PX	.000259	.000259	0	0
50	RAIL1a	PX	.000259	.000259	0	0
51	PLATE3	PX	4.3e-5	4.3e-5	0	0
52	PLATE2	PX	4.3e-5	4.3e-5	0	0
53	PLATE1	PX	4.3e-5	4.3e-5	0	0
54	MP GAMMA4	PX	.0003	.0003	0	0
55	MP GAMMA3	PX	.0003	.0003	0	0
56	MP GAMMA2	PX	.0003	.0003	0	0
57	MP GAMMA1	PX	.0003	.0003	0	0
58	MP BETA4	PX	.0003	.0003	0	0
59	MP BETA3	PX	.0003	.0003	0	0
60	MP BETA2	PX	.0003	.0003	0	0
61	MP BETA1	PX	.0003	.0003	0	0
62	MP ALPHA4	PX	.0003	.0003	0	0
63	MP ALPHA3	PX	.0003	.0003	0	0
64	MP ALPHA2	PX	.0003	.0003	0	0
65	MP ALPHA1	PX	.0003	.0003	0	0
66	KICKER3	PX	.000216	.000216	0	0
67	KICKER2	PX	.000216	.000216	0	0
68	KICKER1	PX	.000216	.000216	0	0
69	FACE1	PX	.000773	.000773	0	0
70	FACE2	PX	.000773	.000773	0	0
71	FACE3	PX	.000432	.000432	0	0
72	CORNER	PX	.000346	.000346	0	0

Member Distributed Loads (BLC 23 : Maintanence (240))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PY	.000346	.000346	0	0
2	SUP1	PY	.000346	.000346	0	0
3	SO3	PY	.000216	.000216	0	0
4	SO2	PY	.000216	.000216	0	0
5	SO1	PY	.000216	.000216	0	0
6	RAIL3c	PY	.000464	.000464	0	0
7	RAIL3b	PY	.000464	.000464	0	0
8	RAIL3a	PY	.000464	.000464	0	0
9	RAIL2c	PY	.000464	.000464	0	0
10	RAIL2b	PY	.000464	.000464	0	0
11	RAIL2a	PY	.000464	.000464	0	0
12	RAIL1c	PY	.000259	.000259	0	0
13	RAIL1b	PY	.000259	.000259	0	0
14	RAIL1a	PY	.000259	.000259	0	0
15	PLATE3	PY	4.3e-5	4.3e-5	0	0
16	PLATE2	PY	4.3e-5	4.3e-5	0	0
17	PLATE1	PY	4.3e-5	4.3e-5	0	0
18	MP GAMMA4	PY	.0003	.0003	0	0

Member Distributed Loads (BLC 23 : Maintanence (240)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
19	MP GAMMA3	PY	.0003	.0003	0	0
20	MP GAMMA2	PY	.0003	.0003	0	0
21	MP GAMMA1	PY	.0003	.0003	0	0
22	MP BETA4	PY	.0003	.0003	0	0
23	MP BETA3	PY	.0003	.0003	0	0
24	MP BETA2	PY	.0003	.0003	0	0
25	MP BETA1	PY	.0003	.0003	0	0
26	MP ALPHA4	PY	.0003	.0003	0	0
27	MP ALPHA3	PY	.0003	.0003	0	0
28	MP ALPHA2	PY	.0003	.0003	0	0
29	MP ALPHA1	PY	.0003	.0003	0	0
30	KICKER3	PY	.000216	.000216	0	0
31	KICKER2	PY	.000216	.000216	0	0
32	KICKER1	PY	.000216	.000216	0	0
33	FACE1	PY	.000773	.000773	0	0
34	FACE2	PY	.000773	.000773	0	0
35	FACE3	PY	.000432	.000432	0	0
36	CORNER	PY	.000346	.000346	0	0
37	SUP2	PX	.000599	.000599	0	0
38	SUP1	PX	.000599	.000599	0	0
39	SO3	PX	.000374	.000374	0	0
40	SO2	PX	.000374	.000374	0	0
41	SO1	PX	.000374	.000374	0	0
42	RAIL3c	PX	.000803	.000803	0	0
43	RAIL3b	PX	.000803	.000803	0	0
44	RAIL3a	PX	.000803	.000803	0	0
45	RAIL2c	PX	.000803	.000803	0	0
46	RAIL2b	PX	.000803	.000803	0	0
47	RAIL2a	PX	.000803	.000803	0	0
48	RAIL1c	PX	.000449	.000449	0	0
49	RAIL1b	PX	.000449	.000449	0	0
50	RAIL1a	PX	.000449	.000449	0	0
51	PLATE3	PX	7.5e-5	7.5e-5	0	0
52	PLATE2	PX	7.5e-5	7.5e-5	0	0
53	PLATE1	PX	7.5e-5	7.5e-5	0	0
54	MP GAMMA4	PX	.000519	.000519	0	0
55	MP GAMMA3	PX	.000519	.000519	0	0
56	MP GAMMA2	PX	.000519	.000519	0	0
57	MP GAMMA1	PX	.000519	.000519	0	0
58	MP BETA4	PX	.000519	.000519	0	0
59	MP BETA3	PX	.000519	.000519	0	0
60	MP BETA2	PX	.000519	.000519	0	0
61	MP BETA1	PX	.000519	.000519	0	0
62	MP ALPHA4	PX	.000519	.000519	0	0
63	MP ALPHA3	PX	.000519	.000519	0	0
64	MP ALPHA2	PX	.000519	.000519	0	0
65	MP ALPHA1	PX	.000519	.000519	0	0
66	KICKER3	PX	.000374	.000374	0	0
67	KICKER2	PX	.000374	.000374	0	0
68	KICKER1	PX	.000374	.000374	0	0
69	FACE1	PX	.001	.001	0	0
70	FACE2	PX	.001	.001	0	0
71	FACE3	PX	.000749	.000749	0	0
72	CORNER	PX	.000599	.000599	0	0

Member Distributed Loads (BLC 24 : Maintanence (270))

Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]

Member Distributed Loads (BLC 24 : Maintanence (270)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PX	.000692	.000692	0	0
2	SUP1	PX	.000692	.000692	0	0
3	SO3	PX	.000432	.000432	0	0
4	SO2	PX	.000432	.000432	0	0
5	SO1	PX	.000432	.000432	0	0
6	RAIL3c	PX	.000928	.000928	0	0
7	RAIL3b	PX	.000928	.000928	0	0
8	RAIL3a	PX	.000928	.000928	0	0
9	RAIL2c	PX	.000928	.000928	0	0
10	RAIL2b	PX	.000928	.000928	0	0
11	RAIL2a	PX	.000928	.000928	0	0
12	RAIL1c	PX	.000519	.000519	0	0
13	RAIL1b	PX	.000519	.000519	0	0
14	RAIL1a	PX	.000519	.000519	0	0
15	PLATE3	PX	8.6e-5	8.6e-5	0	0
16	PLATE2	PX	8.6e-5	8.6e-5	0	0
17	PLATE1	PX	8.6e-5	8.6e-5	0	0
18	MP GAMMA4	PX	.000599	.000599	0	0
19	MP GAMMA3	PX	.000599	.000599	0	0
20	MP GAMMA2	PX	.000599	.000599	0	0
21	MP GAMMA1	PX	.000599	.000599	0	0
22	MP BETA4	PX	.000599	.000599	0	0
23	MP BETA3	PX	.000599	.000599	0	0
24	MP BETA2	PX	.000599	.000599	0	0
25	MP BETA1	PX	.000599	.000599	0	0
26	MP ALPHA4	PX	.000599	.000599	0	0
27	MP ALPHA3	PX	.000599	.000599	0	0
28	MP ALPHA2	PX	.000599	.000599	0	0
29	MP ALPHA1	PX	.000599	.000599	0	0
30	KICKER3	PX	.000432	.000432	0	0
31	KICKER2	PX	.000432	.000432	0	0
32	KICKER1	PX	.000432	.000432	0	0
33	FACE1	PX	.002	.002	0	0
34	FACE2	PX	.002	.002	0	0
35	FACE3	PX	.000865	.000865	0	0
36	CORNER	PX	.000692	.000692	0	0

Member Distributed Loads (BLC 25 : Maintanence (300))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PY	-.000346	-.000346	0	0
2	SUP1	PY	-.000346	-.000346	0	0
3	SO3	PY	-.000216	-.000216	0	0
4	SO2	PY	-.000216	-.000216	0	0
5	SO1	PY	-.000216	-.000216	0	0
6	RAIL3c	PY	-.000464	-.000464	0	0
7	RAIL3b	PY	-.000464	-.000464	0	0
8	RAIL3a	PY	-.000464	-.000464	0	0
9	RAIL2c	PY	-.000464	-.000464	0	0
10	RAIL2b	PY	-.000464	-.000464	0	0
11	RAIL2a	PY	-.000464	-.000464	0	0
12	RAIL1c	PY	-.000259	-.000259	0	0
13	RAIL1b	PY	-.000259	-.000259	0	0
14	RAIL1a	PY	-.000259	-.000259	0	0
15	PLATE3	PY	-4.3e-5	-4.3e-5	0	0
16	PLATE2	PY	-4.3e-5	-4.3e-5	0	0
17	PLATE1	PY	-4.3e-5	-4.3e-5	0	0

Member Distributed Loads (BLC 25 : Maintanence (300)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
18	MP GAMMA4	PY	-.0003	-.0003	0	0
19	MP GAMMA3	PY	-.0003	-.0003	0	0
20	MP GAMMA2	PY	-.0003	-.0003	0	0
21	MP GAMMA1	PY	-.0003	-.0003	0	0
22	MP BETA4	PY	-.0003	-.0003	0	0
23	MP BETA3	PY	-.0003	-.0003	0	0
24	MP BETA2	PY	-.0003	-.0003	0	0
25	MP BETA1	PY	-.0003	-.0003	0	0
26	MP ALPHA4	PY	-.0003	-.0003	0	0
27	MP ALPHA3	PY	-.0003	-.0003	0	0
28	MP ALPHA2	PY	-.0003	-.0003	0	0
29	MP ALPHA1	PY	-.0003	-.0003	0	0
30	KICKER3	PY	-.000216	-.000216	0	0
31	KICKER2	PY	-.000216	-.000216	0	0
32	KICKER1	PY	-.000216	-.000216	0	0
33	FACE1	PY	-.000773	-.000773	0	0
34	FACE2	PY	-.000773	-.000773	0	0
35	FACE3	PY	-.000432	-.000432	0	0
36	CORNER	PY	-.000346	-.000346	0	0
37	SUP2	PX	.000599	.000599	0	0
38	SUP1	PX	.000599	.000599	0	0
39	SO3	PX	.000374	.000374	0	0
40	SO2	PX	.000374	.000374	0	0
41	SO1	PX	.000374	.000374	0	0
42	RAIL3c	PX	.000803	.000803	0	0
43	RAIL3b	PX	.000803	.000803	0	0
44	RAIL3a	PX	.000803	.000803	0	0
45	RAIL2c	PX	.000803	.000803	0	0
46	RAIL2b	PX	.000803	.000803	0	0
47	RAIL2a	PX	.000803	.000803	0	0
48	RAIL1c	PX	.000449	.000449	0	0
49	RAIL1b	PX	.000449	.000449	0	0
50	RAIL1a	PX	.000449	.000449	0	0
51	PLATE3	PX	7.5e-5	7.5e-5	0	0
52	PLATE2	PX	7.5e-5	7.5e-5	0	0
53	PLATE1	PX	7.5e-5	7.5e-5	0	0
54	MP GAMMA4	PX	.000519	.000519	0	0
55	MP GAMMA3	PX	.000519	.000519	0	0
56	MP GAMMA2	PX	.000519	.000519	0	0
57	MP GAMMA1	PX	.000519	.000519	0	0
58	MP BETA4	PX	.000519	.000519	0	0
59	MP BETA3	PX	.000519	.000519	0	0
60	MP BETA2	PX	.000519	.000519	0	0
61	MP BETA1	PX	.000519	.000519	0	0
62	MP ALPHA4	PX	.000519	.000519	0	0
63	MP ALPHA3	PX	.000519	.000519	0	0
64	MP ALPHA2	PX	.000519	.000519	0	0
65	MP ALPHA1	PX	.000519	.000519	0	0
66	KICKER3	PX	.000374	.000374	0	0
67	KICKER2	PX	.000374	.000374	0	0
68	KICKER1	PX	.000374	.000374	0	0
69	FACE1	PX	.001	.001	0	0
70	FACE2	PX	.001	.001	0	0
71	FACE3	PX	.000749	.000749	0	0
72	CORNER	PX	.000599	.000599	0	0

Member Distributed Loads (BLC 26 : Maintanence (330))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PY	-.000599	-.000599	0	0
2	SUP1	PY	-.000599	-.000599	0	0
3	SO3	PY	-.000374	-.000374	0	0
4	SO2	PY	-.000374	-.000374	0	0
5	SO1	PY	-.000374	-.000374	0	0
6	RAIL3c	PY	-.000803	-.000803	0	0
7	RAIL3b	PY	-.000803	-.000803	0	0
8	RAIL3a	PY	-.000803	-.000803	0	0
9	RAIL2c	PY	-.000803	-.000803	0	0
10	RAIL2b	PY	-.000803	-.000803	0	0
11	RAIL2a	PY	-.000803	-.000803	0	0
12	RAIL1c	PY	-.000449	-.000449	0	0
13	RAIL1b	PY	-.000449	-.000449	0	0
14	RAIL1a	PY	-.000449	-.000449	0	0
15	PLATE3	PY	-7.5e-5	-7.5e-5	0	0
16	PLATE2	PY	-7.5e-5	-7.5e-5	0	0
17	PLATE1	PY	-7.5e-5	-7.5e-5	0	0
18	MP GAMMA4	PY	-.000519	-.000519	0	0
19	MP GAMMA3	PY	-.000519	-.000519	0	0
20	MP GAMMA2	PY	-.000519	-.000519	0	0
21	MP GAMMA1	PY	-.000519	-.000519	0	0
22	MP BETA4	PY	-.000519	-.000519	0	0
23	MP BETA3	PY	-.000519	-.000519	0	0
24	MP BETA2	PY	-.000519	-.000519	0	0
25	MP BETA1	PY	-.000519	-.000519	0	0
26	MP ALPHA4	PY	-.000519	-.000519	0	0
27	MP ALPHA3	PY	-.000519	-.000519	0	0
28	MP ALPHA2	PY	-.000519	-.000519	0	0
29	MP ALPHA1	PY	-.000519	-.000519	0	0
30	KICKER3	PY	-.000374	-.000374	0	0
31	KICKER2	PY	-.000374	-.000374	0	0
32	KICKER1	PY	-.000374	-.000374	0	0
33	FACE3	PY	-.001	-.001	0	0
34	FACE2	PY	-.001	-.001	0	0
35	FACE1	PY	-.000749	-.000749	0	0
36	CORNER	PY	-.000599	-.000599	0	0
37	SUP2	PX	.000346	.000346	0	0
38	SUP1	PX	.000346	.000346	0	0
39	SO3	PX	.000216	.000216	0	0
40	SO2	PX	.000216	.000216	0	0
41	SO1	PX	.000216	.000216	0	0
42	RAIL3c	PX	.000464	.000464	0	0
43	RAIL3b	PX	.000464	.000464	0	0
44	RAIL3a	PX	.000464	.000464	0	0
45	RAIL2c	PX	.000464	.000464	0	0
46	RAIL2b	PX	.000464	.000464	0	0
47	RAIL2a	PX	.000464	.000464	0	0
48	RAIL1c	PX	.000259	.000259	0	0
49	RAIL1b	PX	.000259	.000259	0	0
50	RAIL1a	PX	.000259	.000259	0	0
51	PLATE3	PX	4.3e-5	4.3e-5	0	0
52	PLATE2	PX	4.3e-5	4.3e-5	0	0
53	PLATE1	PX	4.3e-5	4.3e-5	0	0
54	MP GAMMA4	PX	.0003	.0003	0	0
55	MP GAMMA3	PX	.0003	.0003	0	0
56	MP GAMMA2	PX	.0003	.0003	0	0
57	MP GAMMA1	PX	.0003	.0003	0	0

Member Distributed Loads (BLC 26 : Maintanence (330)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	MP BETA4	PX	.0003	.0003	0	0
59	MP BETA3	PX	.0003	.0003	0	0
60	MP BETA2	PX	.0003	.0003	0	0
61	MP BETA1	PX	.0003	.0003	0	0
62	MP ALPHA4	PX	.0003	.0003	0	0
63	MP ALPHA3	PX	.0003	.0003	0	0
64	MP ALPHA2	PX	.0003	.0003	0	0
65	MP ALPHA1	PX	.0003	.0003	0	0
66	KICKER3	PX	.000216	.000216	0	0
67	KICKER2	PX	.000216	.000216	0	0
68	KICKER1	PX	.000216	.000216	0	0
69	FACE3	PX	.000773	.000773	0	0
70	FACE2	PX	.000773	.000773	0	0
71	FACE1	PX	.000432	.000432	0	0
72	CORNER	PX	.000346	.000346	0	0

Member Distributed Loads (BLC 27 : Ice Dead Load)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	Z	-.013	-.013	0	0
2	SUP1	Z	-.013	-.013	0	0
3	SO3	Z	-.015	-.015	0	0
4	SO2	Z	-.015	-.015	0	0
5	SO1	Z	-.015	-.015	0	0
6	RAIL3c	Z	-.013	-.013	0	0
7	RAIL3b	Z	-.013	-.013	0	0
8	RAIL3a	Z	-.013	-.013	0	0
9	RAIL2c	Z	-.013	-.013	0	0
10	RAIL2b	Z	-.013	-.013	0	0
11	RAIL2a	Z	-.013	-.013	0	0
12	RAIL1c	Z	-.013	-.013	0	0
13	RAIL1b	Z	-.013	-.013	0	0
14	RAIL1a	Z	-.013	-.013	0	0
15	PLATE3	Z	-.017	-.017	0	0
16	PLATE2	Z	-.017	-.017	0	0
17	PLATE1	Z	-.017	-.017	0	0
18	MP GAMMA4	Z	-.01	-.01	0	0
19	MP GAMMA3	Z	-.01	-.01	0	0
20	MP GAMMA2	Z	-.01	-.01	0	0
21	MP GAMMA1	Z	-.01	-.01	0	0
22	MP BETA4	Z	-.01	-.01	0	0
23	MP BETA3	Z	-.01	-.01	0	0
24	MP BETA2	Z	-.01	-.01	0	0
25	MP BETA1	Z	-.01	-.01	0	0
26	MP ALPHA4	Z	-.01	-.01	0	0
27	MP ALPHA3	Z	-.01	-.01	0	0
28	MP ALPHA2	Z	-.01	-.01	0	0
29	MP ALPHA1	Z	-.01	-.01	0	0
30	KICKER3	Z	-.018	-.018	0	0
31	KICKER2	Z	-.018	-.018	0	0
32	KICKER1	Z	-.018	-.018	0	0
33	FACE3	Z	-.017	-.017	0	0
34	FACE2	Z	-.017	-.017	0	0
35	FACE1	Z	-.017	-.017	0	0
36	CORNER	Z	-.015	-.015	0	0

Member Distributed Loads (BLC 28 : Ice Wind Load (0))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PY	-.004	-.004	0	0
2	SUP1	PY	-.004	-.004	0	0
3	SO3	PY	-.002	-.002	0	0
4	SO2	PY	-.002	-.002	0	0
5	SO1	PY	-.002	-.002	0	0
6	RAIL3c	PY	-.006	-.006	0	0
7	RAIL3b	PY	-.006	-.006	0	0
8	RAIL3a	PY	-.006	-.006	0	0
9	RAIL2c	PY	-.006	-.006	0	0
10	RAIL2b	PY	-.006	-.006	0	0
11	RAIL2a	PY	-.006	-.006	0	0
12	RAIL1c	PY	-.003	-.003	0	0
13	RAIL1b	PY	-.003	-.003	0	0
14	RAIL1a	PY	-.003	-.003	0	0
15	PLATE3	PY	-.002	-.002	0	0
16	PLATE2	PY	-.002	-.002	0	0
17	PLATE1	PY	-.002	-.002	0	0
18	MP GAMMA4	PY	-.004	-.004	0	0
19	MP GAMMA3	PY	-.004	-.004	0	0
20	MP GAMMA2	PY	-.004	-.004	0	0
21	MP GAMMA1	PY	-.004	-.004	0	0
22	MP BETA4	PY	-.004	-.004	0	0
23	MP BETA3	PY	-.004	-.004	0	0
24	MP BETA2	PY	-.004	-.004	0	0
25	MP BETA1	PY	-.004	-.004	0	0
26	MP ALPHA4	PY	-.004	-.004	0	0
27	MP ALPHA3	PY	-.004	-.004	0	0
28	MP ALPHA2	PY	-.004	-.004	0	0
29	MP ALPHA1	PY	-.004	-.004	0	0
30	KICKER3	PY	-.003	-.003	0	0
31	KICKER2	PY	-.003	-.003	0	0
32	KICKER1	PY	-.003	-.003	0	0
33	FACE3	PY	-.007	-.007	0	0
34	FACE2	PY	-.007	-.007	0	0
35	FACE1	PY	-.004	-.004	0	0
36	CORNER	PY	-.004	-.004	0	0

Member Distributed Loads (BLC 29 : Ice Wind Load (30))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PY	-.003	-.003	0	0
2	SUP1	PY	-.003	-.003	0	0
3	SO3	PY	-.002	-.002	0	0
4	SO2	PY	-.002	-.002	0	0
5	SO1	PY	-.002	-.002	0	0
6	RAIL3c	PY	-.005	-.005	0	0
7	RAIL3b	PY	-.005	-.005	0	0
8	RAIL3a	PY	-.005	-.005	0	0
9	RAIL2c	PY	-.005	-.005	0	0
10	RAIL2b	PY	-.005	-.005	0	0
11	RAIL2a	PY	-.005	-.005	0	0
12	RAIL1c	PY	-.003	-.003	0	0
13	RAIL1b	PY	-.003	-.003	0	0
14	RAIL1a	PY	-.003	-.003	0	0
15	PLATE3	PY	-.002	-.002	0	0
16	PLATE2	PY	-.002	-.002	0	0
17	PLATE1	PY	-.002	-.002	0	0

Member Distributed Loads (BLC 29 : Ice Wind Load (30)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
18	MP GAMMA4	PY	-.003	-.003	0	0
19	MP GAMMA3	PY	-.003	-.003	0	0
20	MP GAMMA2	PY	-.003	-.003	0	0
21	MP GAMMA1	PY	-.003	-.003	0	0
22	MP BETA4	PY	-.003	-.003	0	0
23	MP BETA3	PY	-.003	-.003	0	0
24	MP BETA2	PY	-.003	-.003	0	0
25	MP BETA1	PY	-.003	-.003	0	0
26	MP ALPHA4	PY	-.003	-.003	0	0
27	MP ALPHA3	PY	-.003	-.003	0	0
28	MP ALPHA2	PY	-.003	-.003	0	0
29	MP ALPHA1	PY	-.003	-.003	0	0
30	KICKER3	PY	-.002	-.002	0	0
31	KICKER2	PY	-.002	-.002	0	0
32	KICKER1	PY	-.002	-.002	0	0
33	FACE3	PY	-.006	-.006	0	0
34	FACE2	PY	-.006	-.006	0	0
35	FACE1	PY	-.004	-.004	0	0
36	CORNER	PY	-.003	-.003	0	0
37	SUP2	PX	-.002	-.002	0	0
38	SUP1	PX	-.002	-.002	0	0
39	SO3	PX	-.001	-.001	0	0
40	SO2	PX	-.001	-.001	0	0
41	SO1	PX	-.001	-.001	0	0
42	RAIL3c	PX	-.003	-.003	0	0
43	RAIL3b	PX	-.003	-.003	0	0
44	RAIL3a	PX	-.003	-.003	0	0
45	RAIL2c	PX	-.003	-.003	0	0
46	RAIL2b	PX	-.003	-.003	0	0
47	RAIL2a	PX	-.003	-.003	0	0
48	RAIL1c	PX	-.002	-.002	0	0
49	RAIL1b	PX	-.002	-.002	0	0
50	RAIL1a	PX	-.002	-.002	0	0
51	PLATE3	PX	-.000944	-.000944	0	0
52	PLATE2	PX	-.000944	-.000944	0	0
53	PLATE1	PX	-.000944	-.000944	0	0
54	MP GAMMA4	PX	-.002	-.002	0	0
55	MP GAMMA3	PX	-.002	-.002	0	0
56	MP GAMMA2	PX	-.002	-.002	0	0
57	MP GAMMA1	PX	-.002	-.002	0	0
58	MP BETA4	PX	-.002	-.002	0	0
59	MP BETA3	PX	-.002	-.002	0	0
60	MP BETA2	PX	-.002	-.002	0	0
61	MP BETA1	PX	-.002	-.002	0	0
62	MP ALPHA4	PX	-.002	-.002	0	0
63	MP ALPHA3	PX	-.002	-.002	0	0
64	MP ALPHA2	PX	-.002	-.002	0	0
65	MP ALPHA1	PX	-.002	-.002	0	0
66	KICKER3	PX	-.001	-.001	0	0
67	KICKER2	PX	-.001	-.001	0	0
68	KICKER1	PX	-.001	-.001	0	0
69	FACE3	PX	-.004	-.004	0	0
70	FACE2	PX	-.004	-.004	0	0
71	FACE1	PX	-.002	-.002	0	0
72	CORNER	PX	-.002	-.002	0	0

Member Distributed Loads (BLC 30 : Ice Wind Load (60))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PY	-.002	-.002	0	0
2	SUP1	PY	-.002	-.002	0	0
3	SO3	PY	-.001	-.001	0	0
4	SO2	PY	-.001	-.001	0	0
5	SO1	PY	-.001	-.001	0	0
6	RAIL3c	PY	-.003	-.003	0	0
7	RAIL3b	PY	-.003	-.003	0	0
8	RAIL3a	PY	-.003	-.003	0	0
9	RAIL2c	PY	-.003	-.003	0	0
10	RAIL2b	PY	-.003	-.003	0	0
11	RAIL2a	PY	-.003	-.003	0	0
12	RAIL1c	PY	-.002	-.002	0	0
13	RAIL1b	PY	-.002	-.002	0	0
14	RAIL1a	PY	-.002	-.002	0	0
15	PLATE3	PY	-.000944	-.000944	0	0
16	PLATE2	PY	-.000944	-.000944	0	0
17	PLATE1	PY	-.000944	-.000944	0	0
18	MP GAMMA4	PY	-.002	-.002	0	0
19	MP GAMMA3	PY	-.002	-.002	0	0
20	MP GAMMA2	PY	-.002	-.002	0	0
21	MP GAMMA1	PY	-.002	-.002	0	0
22	MP BETA4	PY	-.002	-.002	0	0
23	MP BETA3	PY	-.002	-.002	0	0
24	MP BETA2	PY	-.002	-.002	0	0
25	MP BETA1	PY	-.002	-.002	0	0
26	MP ALPHA4	PY	-.002	-.002	0	0
27	MP ALPHA3	PY	-.002	-.002	0	0
28	MP ALPHA2	PY	-.002	-.002	0	0
29	MP ALPHA1	PY	-.002	-.002	0	0
30	KICKER3	PY	-.001	-.001	0	0
31	KICKER2	PY	-.001	-.001	0	0
32	KICKER1	PY	-.001	-.001	0	0
33	FACE3	PY	-.004	-.004	0	0
34	FACE2	PY	-.004	-.004	0	0
35	FACE1	PY	-.002	-.002	0	0
36	CORNER	PY	-.002	-.002	0	0
37	SUP2	PX	-.003	-.003	0	0
38	SUP1	PX	-.003	-.003	0	0
39	SO3	PX	-.002	-.002	0	0
40	SO2	PX	-.002	-.002	0	0
41	SO1	PX	-.002	-.002	0	0
42	RAIL3c	PX	-.005	-.005	0	0
43	RAIL3b	PX	-.005	-.005	0	0
44	RAIL3a	PX	-.005	-.005	0	0
45	RAIL2c	PX	-.005	-.005	0	0
46	RAIL2b	PX	-.005	-.005	0	0
47	RAIL2a	PX	-.005	-.005	0	0
48	RAIL1c	PX	-.003	-.003	0	0
49	RAIL1b	PX	-.003	-.003	0	0
50	RAIL1a	PX	-.003	-.003	0	0
51	PLATE3	PX	-.002	-.002	0	0
52	PLATE2	PX	-.002	-.002	0	0
53	PLATE1	PX	-.002	-.002	0	0
54	MP GAMMA4	PX	-.003	-.003	0	0
55	MP GAMMA3	PX	-.003	-.003	0	0
56	MP GAMMA2	PX	-.003	-.003	0	0
57	MP GAMMA1	PX	-.003	-.003	0	0

Member Distributed Loads (BLC 30 : Ice Wind Load (60)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	MP BETA4	PX	-.003	-.003	0	0
59	MP BETA3	PX	-.003	-.003	0	0
60	MP BETA2	PX	-.003	-.003	0	0
61	MP BETA1	PX	-.003	-.003	0	0
62	MP ALPHA4	PX	-.003	-.003	0	0
63	MP ALPHA3	PX	-.003	-.003	0	0
64	MP ALPHA2	PX	-.003	-.003	0	0
65	MP ALPHA1	PX	-.003	-.003	0	0
66	KICKER3	PX	-.002	-.002	0	0
67	KICKER2	PX	-.002	-.002	0	0
68	KICKER1	PX	-.002	-.002	0	0
69	FACE3	PX	-.006	-.006	0	0
70	FACE2	PX	-.006	-.006	0	0
71	FACE1	PX	-.004	-.004	0	0
72	CORNER	PX	-.003	-.003	0	0

Member Distributed Loads (BLC 31 : Ice Wind Load (90))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PX	-.004	-.004	0	0
2	SUP1	PX	-.004	-.004	0	0
3	SO3	PX	-.002	-.002	0	0
4	SO2	PX	-.002	-.002	0	0
5	SO1	PX	-.002	-.002	0	0
6	RAIL3c	PX	-.006	-.006	0	0
7	RAIL3b	PX	-.006	-.006	0	0
8	RAIL3a	PX	-.006	-.006	0	0
9	RAIL2c	PX	-.006	-.006	0	0
10	RAIL2b	PX	-.006	-.006	0	0
11	RAIL2a	PX	-.006	-.006	0	0
12	RAIL1c	PX	-.003	-.003	0	0
13	RAIL1b	PX	-.003	-.003	0	0
14	RAIL1a	PX	-.003	-.003	0	0
15	PLATE3	PX	-.002	-.002	0	0
16	PLATE2	PX	-.002	-.002	0	0
17	PLATE1	PX	-.002	-.002	0	0
18	MP GAMMA4	PX	-.004	-.004	0	0
19	MP GAMMA3	PX	-.004	-.004	0	0
20	MP GAMMA2	PX	-.004	-.004	0	0
21	MP GAMMA1	PX	-.004	-.004	0	0
22	MP BETA4	PX	-.004	-.004	0	0
23	MP BETA3	PX	-.004	-.004	0	0
24	MP BETA2	PX	-.004	-.004	0	0
25	MP BETA1	PX	-.004	-.004	0	0
26	MP ALPHA4	PX	-.004	-.004	0	0
27	MP ALPHA3	PX	-.004	-.004	0	0
28	MP ALPHA2	PX	-.004	-.004	0	0
29	MP ALPHA1	PX	-.004	-.004	0	0
30	KICKER3	PX	-.003	-.003	0	0
31	KICKER2	PX	-.003	-.003	0	0
32	KICKER1	PX	-.003	-.003	0	0
33	FACE3	PX	-.007	-.007	0	0
34	FACE1	PX	-.007	-.007	0	0
35	FACE2	PX	-.004	-.004	0	0
36	CORNER	PX	-.004	-.004	0	0

Member Distributed Loads (BLC 32 : Ice Wind Load (120))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PY	.002	.002	0	0
2	SUP1	PY	.002	.002	0	0
3	SO3	PY	.001	.001	0	0
4	SO2	PY	.001	.001	0	0
5	SO1	PY	.001	.001	0	0
6	RAIL3c	PY	.003	.003	0	0
7	RAIL3b	PY	.003	.003	0	0
8	RAIL3a	PY	.003	.003	0	0
9	RAIL2c	PY	.003	.003	0	0
10	RAIL2b	PY	.003	.003	0	0
11	RAIL2a	PY	.003	.003	0	0
12	RAIL1c	PY	.002	.002	0	0
13	RAIL1b	PY	.002	.002	0	0
14	RAIL1a	PY	.002	.002	0	0
15	PLATE3	PY	.000944	.000944	0	0
16	PLATE2	PY	.000944	.000944	0	0
17	PLATE1	PY	.000944	.000944	0	0
18	MP GAMMA4	PY	.002	.002	0	0
19	MP GAMMA3	PY	.002	.002	0	0
20	MP GAMMA2	PY	.002	.002	0	0
21	MP GAMMA1	PY	.002	.002	0	0
22	MP BETA4	PY	.002	.002	0	0
23	MP BETA3	PY	.002	.002	0	0
24	MP BETA2	PY	.002	.002	0	0
25	MP BETA1	PY	.002	.002	0	0
26	MP ALPHA4	PY	.002	.002	0	0
27	MP ALPHA3	PY	.002	.002	0	0
28	MP ALPHA2	PY	.002	.002	0	0
29	MP ALPHA1	PY	.002	.002	0	0
30	KICKER3	PY	.001	.001	0	0
31	KICKER2	PY	.001	.001	0	0
32	KICKER1	PY	.001	.001	0	0
33	FACE3	PY	.004	.004	0	0
34	FACE1	PY	.004	.004	0	0
35	FACE2	PY	.002	.002	0	0
36	CORNER	PY	.002	.002	0	0
37	SUP2	PX	-.003	-.003	0	0
38	SUP1	PX	-.003	-.003	0	0
39	SO3	PX	-.002	-.002	0	0
40	SO2	PX	-.002	-.002	0	0
41	SO1	PX	-.002	-.002	0	0
42	RAIL3c	PX	-.005	-.005	0	0
43	RAIL3b	PX	-.005	-.005	0	0
44	RAIL3a	PX	-.005	-.005	0	0
45	RAIL2c	PX	-.005	-.005	0	0
46	RAIL2b	PX	-.005	-.005	0	0
47	RAIL2a	PX	-.005	-.005	0	0
48	RAIL1c	PX	-.003	-.003	0	0
49	RAIL1b	PX	-.003	-.003	0	0
50	RAIL1a	PX	-.003	-.003	0	0
51	PLATE3	PX	-.002	-.002	0	0
52	PLATE2	PX	-.002	-.002	0	0
53	PLATE1	PX	-.002	-.002	0	0
54	MP GAMMA4	PX	-.003	-.003	0	0
55	MP GAMMA3	PX	-.003	-.003	0	0
56	MP GAMMA2	PX	-.003	-.003	0	0
57	MP GAMMA1	PX	-.003	-.003	0	0

Member Distributed Loads (BLC 32 : Ice Wind Load (120)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	MP BETA4	PX	-.003	-.003	0	0
59	MP BETA3	PX	-.003	-.003	0	0
60	MP BETA2	PX	-.003	-.003	0	0
61	MP BETA1	PX	-.003	-.003	0	0
62	MP ALPHA4	PX	-.003	-.003	0	0
63	MP ALPHA3	PX	-.003	-.003	0	0
64	MP ALPHA2	PX	-.003	-.003	0	0
65	MP ALPHA1	PX	-.003	-.003	0	0
66	KICKER3	PX	-.002	-.002	0	0
67	KICKER2	PX	-.002	-.002	0	0
68	KICKER1	PX	-.002	-.002	0	0
69	FACE3	PX	-.006	-.006	0	0
70	FACE1	PX	-.006	-.006	0	0
71	FACE2	PX	-.004	-.004	0	0
72	CORNER	PX	-.003	-.003	0	0

Member Distributed Loads (BLC 33 : Ice Wind Load (150))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PY	.003	.003	0	0
2	SUP1	PY	.003	.003	0	0
3	SO3	PY	.002	.002	0	0
4	SO2	PY	.002	.002	0	0
5	SO1	PY	.002	.002	0	0
6	RAIL3c	PY	.005	.005	0	0
7	RAIL3b	PY	.005	.005	0	0
8	RAIL3a	PY	.005	.005	0	0
9	RAIL2c	PY	.005	.005	0	0
10	RAIL2b	PY	.005	.005	0	0
11	RAIL2a	PY	.005	.005	0	0
12	RAIL1c	PY	.003	.003	0	0
13	RAIL1b	PY	.003	.003	0	0
14	RAIL1a	PY	.003	.003	0	0
15	PLATE3	PY	.002	.002	0	0
16	PLATE2	PY	.002	.002	0	0
17	PLATE1	PY	.002	.002	0	0
18	MP GAMMA4	PY	.003	.003	0	0
19	MP GAMMA3	PY	.003	.003	0	0
20	MP GAMMA2	PY	.003	.003	0	0
21	MP GAMMA1	PY	.003	.003	0	0
22	MP BETA4	PY	.003	.003	0	0
23	MP BETA3	PY	.003	.003	0	0
24	MP BETA2	PY	.003	.003	0	0
25	MP BETA1	PY	.003	.003	0	0
26	MP ALPHA4	PY	.003	.003	0	0
27	MP ALPHA3	PY	.003	.003	0	0
28	MP ALPHA2	PY	.003	.003	0	0
29	MP ALPHA1	PY	.003	.003	0	0
30	KICKER3	PY	.002	.002	0	0
31	KICKER2	PY	.002	.002	0	0
32	KICKER1	PY	.002	.002	0	0
33	FACE3	PY	.006	.006	0	0
34	FACE1	PY	.006	.006	0	0
35	FACE2	PY	.004	.004	0	0
36	CORNER	PY	.003	.003	0	0
37	SUP2	PX	-.002	-.002	0	0
38	SUP1	PX	-.002	-.002	0	0

Member Distributed Loads (BLC 33 : Ice Wind Load (150)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
39	SO3	PX	-.001	-.001	0	0
40	SO2	PX	-.001	-.001	0	0
41	SO1	PX	-.001	-.001	0	0
42	RAIL3c	PX	-.003	-.003	0	0
43	RAIL3b	PX	-.003	-.003	0	0
44	RAIL3a	PX	-.003	-.003	0	0
45	RAIL2c	PX	-.003	-.003	0	0
46	RAIL2b	PX	-.003	-.003	0	0
47	RAIL2a	PX	-.003	-.003	0	0
48	RAIL1c	PX	-.002	-.002	0	0
49	RAIL1b	PX	-.002	-.002	0	0
50	RAIL1a	PX	-.002	-.002	0	0
51	PLATE3	PX	-.000944	-.000944	0	0
52	PLATE2	PX	-.000944	-.000944	0	0
53	PLATE1	PX	-.000944	-.000944	0	0
54	MP GAMMA4	PX	-.002	-.002	0	0
55	MP GAMMA3	PX	-.002	-.002	0	0
56	MP GAMMA2	PX	-.002	-.002	0	0
57	MP GAMMA1	PX	-.002	-.002	0	0
58	MP BETA4	PX	-.002	-.002	0	0
59	MP BETA3	PX	-.002	-.002	0	0
60	MP BETA2	PX	-.002	-.002	0	0
61	MP BETA1	PX	-.002	-.002	0	0
62	MP ALPHA4	PX	-.002	-.002	0	0
63	MP ALPHA3	PX	-.002	-.002	0	0
64	MP ALPHA2	PX	-.002	-.002	0	0
65	MP ALPHA1	PX	-.002	-.002	0	0
66	KICKER3	PX	-.001	-.001	0	0
67	KICKER2	PX	-.001	-.001	0	0
68	KICKER1	PX	-.001	-.001	0	0
69	FACE3	PX	-.004	-.004	0	0
70	FACE1	PX	-.004	-.004	0	0
71	FACE2	PX	-.002	-.002	0	0
72	CORNER	PX	-.002	-.002	0	0

Member Distributed Loads (BLC 34 : Ice Wind Load (180))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PY	.004	.004	0	0
2	SUP1	PY	.004	.004	0	0
3	SO3	PY	.002	.002	0	0
4	SO2	PY	.002	.002	0	0
5	SO1	PY	.002	.002	0	0
6	RAIL3c	PY	.006	.006	0	0
7	RAIL3b	PY	.006	.006	0	0
8	RAIL3a	PY	.006	.006	0	0
9	RAIL2c	PY	.006	.006	0	0
10	RAIL2b	PY	.006	.006	0	0
11	RAIL2a	PY	.006	.006	0	0
12	RAIL1c	PY	.003	.003	0	0
13	RAIL1b	PY	.003	.003	0	0
14	RAIL1a	PY	.003	.003	0	0
15	PLATE3	PY	.002	.002	0	0
16	PLATE2	PY	.002	.002	0	0
17	PLATE1	PY	.002	.002	0	0
18	MP GAMMA4	PY	.004	.004	0	0
19	MP GAMMA3	PY	.004	.004	0	0

Member Distributed Loads (BLC 34 : Ice Wind Load (180)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
20	MP GAMMA2	PY	.004	.004	0	0
21	MP GAMMA1	PY	.004	.004	0	0
22	MP BETA4	PY	.004	.004	0	0
23	MP BETA3	PY	.004	.004	0	0
24	MP BETA2	PY	.004	.004	0	0
25	MP BETA1	PY	.004	.004	0	0
26	MP ALPHA4	PY	.004	.004	0	0
27	MP ALPHA3	PY	.004	.004	0	0
28	MP ALPHA2	PY	.004	.004	0	0
29	MP ALPHA1	PY	.004	.004	0	0
30	KICKER3	PY	.003	.003	0	0
31	KICKER2	PY	.003	.003	0	0
32	KICKER1	PY	.003	.003	0	0
33	FACE3	PY	.007	.007	0	0
34	FACE1	PY	.007	.007	0	0
35	FACE2	PY	.004	.004	0	0
36	CORNER	PY	.004	.004	0	0

Member Distributed Loads (BLC 35 : Ice Wind Load (210))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PY	.003	.003	0	0
2	SUP1	PY	.003	.003	0	0
3	SO3	PY	.002	.002	0	0
4	SO2	PY	.002	.002	0	0
5	SO1	PY	.002	.002	0	0
6	RAIL3c	PY	.005	.005	0	0
7	RAIL3b	PY	.005	.005	0	0
8	RAIL3a	PY	.005	.005	0	0
9	RAIL2c	PY	.005	.005	0	0
10	RAIL2b	PY	.005	.005	0	0
11	RAIL2a	PY	.005	.005	0	0
12	RAIL1c	PY	.003	.003	0	0
13	RAIL1b	PY	.003	.003	0	0
14	RAIL1a	PY	.003	.003	0	0
15	PLATE3	PY	.002	.002	0	0
16	PLATE2	PY	.002	.002	0	0
17	PLATE1	PY	.002	.002	0	0
18	MP GAMMA4	PY	.003	.003	0	0
19	MP GAMMA3	PY	.003	.003	0	0
20	MP GAMMA2	PY	.003	.003	0	0
21	MP GAMMA1	PY	.003	.003	0	0
22	MP BETA4	PY	.003	.003	0	0
23	MP BETA3	PY	.003	.003	0	0
24	MP BETA2	PY	.003	.003	0	0
25	MP BETA1	PY	.003	.003	0	0
26	MP ALPHA4	PY	.003	.003	0	0
27	MP ALPHA3	PY	.003	.003	0	0
28	MP ALPHA2	PY	.003	.003	0	0
29	MP ALPHA1	PY	.003	.003	0	0
30	KICKER3	PY	.002	.002	0	0
31	KICKER2	PY	.002	.002	0	0
32	KICKER1	PY	.002	.002	0	0
33	FACE1	PY	.006	.006	0	0
34	FACE2	PY	.006	.006	0	0
35	FACE3	PY	.004	.004	0	0
36	CORNER	PY	.003	.003	0	0

Member Distributed Loads (BLC 35 : Ice Wind Load (210)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
37	SUP2	PX	.002	.002	0	0
38	SUP1	PX	.002	.002	0	0
39	SO3	PX	.001	.001	0	0
40	SO2	PX	.001	.001	0	0
41	SO1	PX	.001	.001	0	0
42	RAIL3c	PX	.003	.003	0	0
43	RAIL3b	PX	.003	.003	0	0
44	RAIL3a	PX	.003	.003	0	0
45	RAIL2c	PX	.003	.003	0	0
46	RAIL2b	PX	.003	.003	0	0
47	RAIL2a	PX	.003	.003	0	0
48	RAIL1c	PX	.002	.002	0	0
49	RAIL1b	PX	.002	.002	0	0
50	RAIL1a	PX	.002	.002	0	0
51	PLATE3	PX	.000944	.000944	0	0
52	PLATE2	PX	.000944	.000944	0	0
53	PLATE1	PX	.000944	.000944	0	0
54	MP GAMMA4	PX	.002	.002	0	0
55	MP GAMMA3	PX	.002	.002	0	0
56	MP GAMMA2	PX	.002	.002	0	0
57	MP GAMMA1	PX	.002	.002	0	0
58	MP BETA4	PX	.002	.002	0	0
59	MP BETA3	PX	.002	.002	0	0
60	MP BETA2	PX	.002	.002	0	0
61	MP BETA1	PX	.002	.002	0	0
62	MP ALPHA4	PX	.002	.002	0	0
63	MP ALPHA3	PX	.002	.002	0	0
64	MP ALPHA2	PX	.002	.002	0	0
65	MP ALPHA1	PX	.002	.002	0	0
66	KICKER3	PX	.001	.001	0	0
67	KICKER2	PX	.001	.001	0	0
68	KICKER1	PX	.001	.001	0	0
69	FACE1	PX	.004	.004	0	0
70	FACE2	PX	.004	.004	0	0
71	FACE3	PX	.002	.002	0	0
72	CORNER	PX	.002	.002	0	0

Member Distributed Loads (BLC 36 : Ice Wind Load (240))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PY	.002	.002	0	0
2	SUP1	PY	.002	.002	0	0
3	SO3	PY	.001	.001	0	0
4	SO2	PY	.001	.001	0	0
5	SO1	PY	.001	.001	0	0
6	RAIL3c	PY	.003	.003	0	0
7	RAIL3b	PY	.003	.003	0	0
8	RAIL3a	PY	.003	.003	0	0
9	RAIL2c	PY	.003	.003	0	0
10	RAIL2b	PY	.003	.003	0	0
11	RAIL2a	PY	.003	.003	0	0
12	RAIL1c	PY	.002	.002	0	0
13	RAIL1b	PY	.002	.002	0	0
14	RAIL1a	PY	.002	.002	0	0
15	PLATE3	PY	.000944	.000944	0	0
16	PLATE2	PY	.000944	.000944	0	0
17	PLATE1	PY	.000944	.000944	0	0

Member Distributed Loads (BLC 36 : Ice Wind Load (240)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
18	MP GAMMA4	PY	.002	.002	0	0
19	MP GAMMA3	PY	.002	.002	0	0
20	MP GAMMA2	PY	.002	.002	0	0
21	MP GAMMA1	PY	.002	.002	0	0
22	MP BETA4	PY	.002	.002	0	0
23	MP BETA3	PY	.002	.002	0	0
24	MP BETA2	PY	.002	.002	0	0
25	MP BETA1	PY	.002	.002	0	0
26	MP ALPHA4	PY	.002	.002	0	0
27	MP ALPHA3	PY	.002	.002	0	0
28	MP ALPHA2	PY	.002	.002	0	0
29	MP ALPHA1	PY	.002	.002	0	0
30	KICKER3	PY	.001	.001	0	0
31	KICKER2	PY	.001	.001	0	0
32	KICKER1	PY	.001	.001	0	0
33	FACE1	PY	.004	.004	0	0
34	FACE2	PY	.004	.004	0	0
35	FACE3	PY	.002	.002	0	0
36	CORNER	PY	.002	.002	0	0
37	SUP2	PX	.003	.003	0	0
38	SUP1	PX	.003	.003	0	0
39	SO3	PX	.002	.002	0	0
40	SO2	PX	.002	.002	0	0
41	SO1	PX	.002	.002	0	0
42	RAIL3c	PX	.005	.005	0	0
43	RAIL3b	PX	.005	.005	0	0
44	RAIL3a	PX	.005	.005	0	0
45	RAIL2c	PX	.005	.005	0	0
46	RAIL2b	PX	.005	.005	0	0
47	RAIL2a	PX	.005	.005	0	0
48	RAIL1c	PX	.003	.003	0	0
49	RAIL1b	PX	.003	.003	0	0
50	RAIL1a	PX	.003	.003	0	0
51	PLATE3	PX	.002	.002	0	0
52	PLATE2	PX	.002	.002	0	0
53	PLATE1	PX	.002	.002	0	0
54	MP GAMMA4	PX	.003	.003	0	0
55	MP GAMMA3	PX	.003	.003	0	0
56	MP GAMMA2	PX	.003	.003	0	0
57	MP GAMMA1	PX	.003	.003	0	0
58	MP BETA4	PX	.003	.003	0	0
59	MP BETA3	PX	.003	.003	0	0
60	MP BETA2	PX	.003	.003	0	0
61	MP BETA1	PX	.003	.003	0	0
62	MP ALPHA4	PX	.003	.003	0	0
63	MP ALPHA3	PX	.003	.003	0	0
64	MP ALPHA2	PX	.003	.003	0	0
65	MP ALPHA1	PX	.003	.003	0	0
66	KICKER3	PX	.002	.002	0	0
67	KICKER2	PX	.002	.002	0	0
68	KICKER1	PX	.002	.002	0	0
69	FACE1	PX	.006	.006	0	0
70	FACE2	PX	.006	.006	0	0
71	FACE3	PX	.004	.004	0	0
72	CORNER	PX	.003	.003	0	0

Member Distributed Loads (BLC 37 : Ice Wind Load (270))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PX	.004	.004	0	0
2	SUP1	PX	.004	.004	0	0
3	SO3	PX	.002	.002	0	0
4	SO2	PX	.002	.002	0	0
5	SO1	PX	.002	.002	0	0
6	RAIL3c	PX	.006	.006	0	0
7	RAIL3b	PX	.006	.006	0	0
8	RAIL3a	PX	.006	.006	0	0
9	RAIL2c	PX	.006	.006	0	0
10	RAIL2b	PX	.006	.006	0	0
11	RAIL2a	PX	.006	.006	0	0
12	RAIL1c	PX	.003	.003	0	0
13	RAIL1b	PX	.003	.003	0	0
14	RAIL1a	PX	.003	.003	0	0
15	PLATE3	PX	.002	.002	0	0
16	PLATE2	PX	.002	.002	0	0
17	PLATE1	PX	.002	.002	0	0
18	MP GAMMA4	PX	.004	.004	0	0
19	MP GAMMA3	PX	.004	.004	0	0
20	MP GAMMA2	PX	.004	.004	0	0
21	MP GAMMA1	PX	.004	.004	0	0
22	MP BETA4	PX	.004	.004	0	0
23	MP BETA3	PX	.004	.004	0	0
24	MP BETA2	PX	.004	.004	0	0
25	MP BETA1	PX	.004	.004	0	0
26	MP ALPHA4	PX	.004	.004	0	0
27	MP ALPHA3	PX	.004	.004	0	0
28	MP ALPHA2	PX	.004	.004	0	0
29	MP ALPHA1	PX	.004	.004	0	0
30	KICKER3	PX	.003	.003	0	0
31	KICKER2	PX	.003	.003	0	0
32	KICKER1	PX	.003	.003	0	0
33	FACE1	PX	.007	.007	0	0
34	FACE2	PX	.007	.007	0	0
35	FACE3	PX	.004	.004	0	0
36	CORNER	PX	.004	.004	0	0

Member Distributed Loads (BLC 38 : Ice Wind Load (300))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PY	-.002	-.002	0	0
2	SUP1	PY	-.002	-.002	0	0
3	SO3	PY	-.001	-.001	0	0
4	SO2	PY	-.001	-.001	0	0
5	SO1	PY	-.001	-.001	0	0
6	RAIL3c	PY	-.003	-.003	0	0
7	RAIL3b	PY	-.003	-.003	0	0
8	RAIL3a	PY	-.003	-.003	0	0
9	RAIL2c	PY	-.003	-.003	0	0
10	RAIL2b	PY	-.003	-.003	0	0
11	RAIL2a	PY	-.003	-.003	0	0
12	RAIL1c	PY	-.002	-.002	0	0
13	RAIL1b	PY	-.002	-.002	0	0
14	RAIL1a	PY	-.002	-.002	0	0
15	PLATE3	PY	-.000944	-.000944	0	0
16	PLATE2	PY	-.000944	-.000944	0	0
17	PLATE1	PY	-.000944	-.000944	0	0

Member Distributed Loads (BLC 38 : Ice Wind Load (300)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
18	MP GAMMA4	PY	-.002	-.002	0	0
19	MP GAMMA3	PY	-.002	-.002	0	0
20	MP GAMMA2	PY	-.002	-.002	0	0
21	MP GAMMA1	PY	-.002	-.002	0	0
22	MP BETA4	PY	-.002	-.002	0	0
23	MP BETA3	PY	-.002	-.002	0	0
24	MP BETA2	PY	-.002	-.002	0	0
25	MP BETA1	PY	-.002	-.002	0	0
26	MP ALPHA4	PY	-.002	-.002	0	0
27	MP ALPHA3	PY	-.002	-.002	0	0
28	MP ALPHA2	PY	-.002	-.002	0	0
29	MP ALPHA1	PY	-.002	-.002	0	0
30	KICKER3	PY	-.001	-.001	0	0
31	KICKER2	PY	-.001	-.001	0	0
32	KICKER1	PY	-.001	-.001	0	0
33	FACE1	PY	-.004	-.004	0	0
34	FACE2	PY	-.004	-.004	0	0
35	FACE3	PY	-.002	-.002	0	0
36	CORNER	PY	-.002	-.002	0	0
37	SUP2	PX	.003	.003	0	0
38	SUP1	PX	.003	.003	0	0
39	SO3	PX	.002	.002	0	0
40	SO2	PX	.002	.002	0	0
41	SO1	PX	.002	.002	0	0
42	RAIL3c	PX	.005	.005	0	0
43	RAIL3b	PX	.005	.005	0	0
44	RAIL3a	PX	.005	.005	0	0
45	RAIL2c	PX	.005	.005	0	0
46	RAIL2b	PX	.005	.005	0	0
47	RAIL2a	PX	.005	.005	0	0
48	RAIL1c	PX	.003	.003	0	0
49	RAIL1b	PX	.003	.003	0	0
50	RAIL1a	PX	.003	.003	0	0
51	PLATE3	PX	.002	.002	0	0
52	PLATE2	PX	.002	.002	0	0
53	PLATE1	PX	.002	.002	0	0
54	MP GAMMA4	PX	.003	.003	0	0
55	MP GAMMA3	PX	.003	.003	0	0
56	MP GAMMA2	PX	.003	.003	0	0
57	MP GAMMA1	PX	.003	.003	0	0
58	MP BETA4	PX	.003	.003	0	0
59	MP BETA3	PX	.003	.003	0	0
60	MP BETA2	PX	.003	.003	0	0
61	MP BETA1	PX	.003	.003	0	0
62	MP ALPHA4	PX	.003	.003	0	0
63	MP ALPHA3	PX	.003	.003	0	0
64	MP ALPHA2	PX	.003	.003	0	0
65	MP ALPHA1	PX	.003	.003	0	0
66	KICKER3	PX	.002	.002	0	0
67	KICKER2	PX	.002	.002	0	0
68	KICKER1	PX	.002	.002	0	0
69	FACE1	PX	.006	.006	0	0
70	FACE2	PX	.006	.006	0	0
71	FACE3	PX	.004	.004	0	0
72	CORNER	PX	.003	.003	0	0

Member Distributed Loads (BLC 39 : Ice Wind Load (330))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP2	PY	-.003	-.003	0	0
2	SUP1	PY	-.003	-.003	0	0
3	SO3	PY	-.002	-.002	0	0
4	SO2	PY	-.002	-.002	0	0
5	SO1	PY	-.002	-.002	0	0
6	RAIL3c	PY	-.005	-.005	0	0
7	RAIL3b	PY	-.005	-.005	0	0
8	RAIL3a	PY	-.005	-.005	0	0
9	RAIL2c	PY	-.005	-.005	0	0
10	RAIL2b	PY	-.005	-.005	0	0
11	RAIL2a	PY	-.005	-.005	0	0
12	RAIL1c	PY	-.003	-.003	0	0
13	RAIL1b	PY	-.003	-.003	0	0
14	RAIL1a	PY	-.003	-.003	0	0
15	PLATE3	PY	-.002	-.002	0	0
16	PLATE2	PY	-.002	-.002	0	0
17	PLATE1	PY	-.002	-.002	0	0
18	MP GAMMA4	PY	-.003	-.003	0	0
19	MP GAMMA3	PY	-.003	-.003	0	0
20	MP GAMMA2	PY	-.003	-.003	0	0
21	MP GAMMA1	PY	-.003	-.003	0	0
22	MP BETA4	PY	-.003	-.003	0	0
23	MP BETA3	PY	-.003	-.003	0	0
24	MP BETA2	PY	-.003	-.003	0	0
25	MP BETA1	PY	-.003	-.003	0	0
26	MP ALPHA4	PY	-.003	-.003	0	0
27	MP ALPHA3	PY	-.003	-.003	0	0
28	MP ALPHA2	PY	-.003	-.003	0	0
29	MP ALPHA1	PY	-.003	-.003	0	0
30	KICKER3	PY	-.002	-.002	0	0
31	KICKER2	PY	-.002	-.002	0	0
32	KICKER1	PY	-.002	-.002	0	0
33	FACE3	PY	-.006	-.006	0	0
34	FACE2	PY	-.006	-.006	0	0
35	FACE1	PY	-.004	-.004	0	0
36	CORNER	PY	-.003	-.003	0	0
37	SUP2	PX	.002	.002	0	0
38	SUP1	PX	.002	.002	0	0
39	SO3	PX	.001	.001	0	0
40	SO2	PX	.001	.001	0	0
41	SO1	PX	.001	.001	0	0
42	RAIL3c	PX	.003	.003	0	0
43	RAIL3b	PX	.003	.003	0	0
44	RAIL3a	PX	.003	.003	0	0
45	RAIL2c	PX	.003	.003	0	0
46	RAIL2b	PX	.003	.003	0	0
47	RAIL2a	PX	.003	.003	0	0
48	RAIL1c	PX	.002	.002	0	0
49	RAIL1b	PX	.002	.002	0	0
50	RAIL1a	PX	.002	.002	0	0
51	PLATE3	PX	.000944	.000944	0	0
52	PLATE2	PX	.000944	.000944	0	0
53	PLATE1	PX	.000944	.000944	0	0
54	MP GAMMA4	PX	.002	.002	0	0
55	MP GAMMA3	PX	.002	.002	0	0
56	MP GAMMA2	PX	.002	.002	0	0
57	MP GAMMA1	PX	.002	.002	0	0

Member Distributed Loads (BLC 39 : Ice Wind Load (330)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	MP BETA4	PX	.002	.002	0	0
59	MP BETA3	PX	.002	.002	0	0
60	MP BETA2	PX	.002	.002	0	0
61	MP BETA1	PX	.002	.002	0	0
62	MP ALPHA4	PX	.002	.002	0	0
63	MP ALPHA3	PX	.002	.002	0	0
64	MP ALPHA2	PX	.002	.002	0	0
65	MP ALPHA1	PX	.002	.002	0	0
66	KICKER3	PX	.001	.001	0	0
67	KICKER2	PX	.001	.001	0	0
68	KICKER1	PX	.001	.001	0	0
69	FACE3	PX	.004	.004	0	0
70	FACE2	PX	.004	.004	0	0
71	FACE1	PX	.002	.002	0	0
72	CORNER	PX	.002	.002	0	0

Member Distributed Loads (BLC 43 : BLC 3 Transient Area Loads)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP1	Z	-.008	-.011	.575	2.876
2	SUP1	Z	-.011	-.013	2.876	5.177
3	FACE3	Z	-.01	-.011	6	9.6
4	FACE2	Z	-.019	-.016	1.2	2.4
5	FACE2	Z	-.016	-.011	2.4	3.6
6	FACE2	Z	-.011	-.004	3.6	4.8
7	CORNER	Z	-.009	-.009	4.355	5.957
8	FACE3	Z	-.0002273	-.002	4.8	6.24
9	FACE3	Z	-.002	-.004	6.24	7.68
10	FACE3	Z	-.004	-.008	7.68	9.12
11	FACE3	Z	-.008	-.006	9.12	10.56
12	FACE3	Z	-.006	-.0002273	10.56	12
13	FACE2	Z	-.003	-.003	.549	1.549
14	SUP2	Z	-.011	-.011	.882	2.809
15	M41	Z	-.042	-.042	0	.225
16	FACE2	Z	-.001	-.013	7.2	8.8
17	FACE2	Z	-.013	-.012	8.8	10.4
18	FACE2	Z	-.012	-.001	10.4	12
19	FACE1	Z	-.002	-.007	0	1.44
20	FACE1	Z	-.007	-.011	1.44	2.88
21	FACE1	Z	-.011	-.015	2.88	4.32
22	FACE1	Z	-.015	-.008	4.32	5.76
23	FACE1	Z	-.008	-.0002225	5.76	7.2
24	SUP2	Z	-.0003193	-.003	0	1.035
25	SUP2	Z	-.003	-.005	1.035	2.071
26	SUP2	Z	-.005	-.01	2.071	3.106
27	SUP2	Z	-.01	-.012	3.106	4.141
28	SUP2	Z	-.012	-.007	4.141	5.177
29	CORNER	Z	-.007	-.007	.097	1.603
30	FACE3	Z	-.0002591	-.002	0	1.2
31	FACE3	Z	-.002	-.005	1.2	2.4
32	FACE3	Z	-.005	-.008	2.4	3.6
33	FACE3	Z	-.008	-.007	3.6	4.8
34	FACE3	Z	-.007	-.002	4.8	6
35	CORNER	Z	-.005	-.005	4.161	5.161
36	M50	Z	-.03	-.03	0	.225
37	FACE3	Z	-.011	-.011	1.705	3.532
38	FACE1	Z	-.011	-.011	8.468	10.295

Member Distributed Loads (BLC 43 : BLC 3 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
39	CORNER	Z	-.011	-.011	1.693	4.264
40	2	Z	-.03	-.03	0	.225
41	FACE1	Z	-.002	-.007	6	7.2
42	FACE1	Z	-.007	-.008	7.2	8.4
43	FACE1	Z	-.008	-.005	8.4	9.6
44	FACE1	Z	-.005	-.002	9.6	10.8
45	FACE1	Z	-.002	-.0002591	10.8	12
46	CORNER	Z	-.005	-.005	.797	1.797

Member Distributed Loads (BLC 44 : BLC 27 Transient Area Loads)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUP1	Z	-.016	-.021	.575	2.876
2	SUP1	Z	-.021	-.027	2.876	5.177
3	FACE3	Z	-.019	-.021	6	9.6
4	FACE2	Z	-.038	-.032	1.2	2.4
5	FACE2	Z	-.032	-.022	2.4	3.6
6	FACE2	Z	-.022	-.007	3.6	4.8
7	CORNER	Z	-.019	-.019	4.355	5.957
8	FACE3	Z	-.0004533	-.004	4.8	6.24
9	FACE3	Z	-.004	-.008	6.24	7.68
10	FACE3	Z	-.008	-.015	7.68	9.12
11	FACE3	Z	-.015	-.013	9.12	10.56
12	FACE3	Z	-.013	-.0004533	10.56	12
13	FACE2	Z	-.007	-.007	.549	1.549
14	SUP2	Z	-.022	-.022	.882	2.809
15	M41	Z	-.083	-.083	0	.225
16	FACE2	Z	-.003	-.026	7.2	8.8
17	FACE2	Z	-.026	-.024	8.8	10.4
18	FACE2	Z	-.024	-.003	10.4	12
19	FACE1	Z	-.004	-.013	0	1.44
20	FACE1	Z	-.013	-.022	1.44	2.88
21	FACE1	Z	-.022	-.03	2.88	4.32
22	FACE1	Z	-.03	-.017	4.32	5.76
23	FACE1	Z	-.017	-.000445	5.76	7.2
24	SUP2	Z	-.0006408	-.007	0	1.035
25	SUP2	Z	-.007	-.011	1.035	2.071
26	SUP2	Z	-.011	-.02	2.071	3.106
27	SUP2	Z	-.02	-.024	3.106	4.141
28	SUP2	Z	-.024	-.014	4.141	5.177
29	CORNER	Z	-.014	-.014	.096	1.603
30	FACE3	Z	-.0005344	-.003	0	1.2
31	FACE3	Z	-.003	-.009	1.2	2.4
32	FACE3	Z	-.009	-.016	2.4	3.6
33	FACE3	Z	-.016	-.014	3.6	4.8
34	FACE3	Z	-.014	-.003	4.8	6
35	CORNER	Z	-.01	-.01	4.162	5.162
36	M50	Z	-.06	-.06	0	.225
37	FACE3	Z	-.023	-.023	1.705	3.532
38	FACE1	Z	-.023	-.023	8.468	10.295
39	CORNER	Z	-.021	-.021	1.693	4.264
40	2	Z	-.06	-.06	0	.225
41	FACE1	Z	-.004	-.014	6	7.2
42	FACE1	Z	-.014	-.016	7.2	8.4
43	FACE1	Z	-.016	-.009	8.4	9.6
44	FACE1	Z	-.009	-.003	9.6	10.8
45	FACE1	Z	-.003	-.0005183	10.8	12

Member Distributed Loads (BLC 44 : BLC 27 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
46	CORNER	Z	-.01	-.01	.797	1.797

Member Area Loads (BLC 3 : Dead Load)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N165	N73A	N70B	N69A	Z	Two Way	-.01
2	N165	N69A	N166		Z	Two Way	-.01
3	N74A	N162A	N161A	N70A	Z	Two Way	-.01
4	N70A	N69B	N74A		Z	Two Way	-.01
5	N69A	N70B	N163		Z	Two Way	-.01
6	N70B	N69B	N164	N163	Z	Two Way	-.01
7	N69B	N70A	N164		Z	Two Way	-.01

Member Area Loads (BLC 27 : Ice Dead Load)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N165	N73A	N70B	N69A	Z	Two Way	-.02
2	N165	N69A	N166		Z	Two Way	-.02
3	N74A	N162A	N161A	N70A	Z	Two Way	-.02
4	N70A	N69B	N74A		Z	Two Way	-.02
5	N69A	N70B	N163		Z	Two Way	-.02
6	N70B	N69B	N164	N163	Z	Two Way	-.02
7	N69B	N70A	N164		Z	Two Way	-.02

Envelope Joint Reactions

	Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N48	max	8.34	9	5.003	8	.3	26	.232	8	.316	26	.919	26
2		min	-2.72	26	-1.878	26	-.618	8	-.109	26	-.431	8	-.906	8
3	N18	max	.527	11	2.915	2	.275	2	.308	2	.035	35	1.67	29
4		min	-.537	29	-9.555	21	-.592	20	-.467	20	-.097	17	-1.629	11
5	N78	max	3.066	14	5.058	32	.314	14	.193	32	.468	32	1.004	2
6		min	-8.589	33	-1.897	14	-.636	32	-.159	14	-.301	14	-1.061	20
7	N167	max	.181	11	9.22	21	4.792	21	1.198	21	.237	11	.49	29
8		min	-.165	29	.202	2	.116	2	.029	2	-.231	29	-.507	11
9	N172	max	.023	26	-.064	26	4.825	9	.1	26	1.025	9	.242	26
10		min	-8.056	9	-4.613	9	.015	26	-.639	9	.058	26	-.259	8
11	N177	max	8.247	33	.006	14	4.951	33	.051	14	-.02	14	.271	2
12		min	-.076	14	-4.776	33	-.025	14	-.627	33	-1.068	33	-.311	20
13	Totals:	max	5.418	11	5.005	2	11.963	9						
14		min	-5.418	29	-5.076	20	4.634	26						

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
1	Live Load	DL					1			
2	Wind Load (0)	DL					30	36		
3	Dead Load	DL			-1.1		30		7	
4	Wind Load (30)	DL					60	72		
5	Wind Load (60)	DL					60	72		
6	Wind Load (90)	DL					30	36		
7	Wind Load (120)	DL					60	72		
8	Wind Load (150)	DL					60	72		
9	Wind Load (180)	DL					30	36		
10	Wind Load (210)	DL					60	72		
11	Wind Load (240)	DL					60	72		

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
12	Wind Load (270)	DL					30	36		
13	Wind Load (300)	DL					60	72		
14	Wind Load (330)	DL					60	72		
15	Maintanence (0)	DL					30	36		
16	Maintanence (30)	DL					60	72		
17	Maintanence (60)	DL					60	72		
18	Maintanence (90)	DL					30	36		
19	Maintanence (120)	DL					60	72		
20	Maintanence (150)	DL					60	72		
21	Maintanence (180)	DL					30	36		
22	Maintanence (210)	DL					60	72		
23	Maintanence (240)	DL					60	72		
24	Maintanence (270)	DL					30	36		
25	Maintanence (300)	DL					60	72		
26	Maintanence (330)	DL					60	72		
27	Ice Dead Load	DL					30	36	7	
28	Ice Wind Load (0)	DL					30	36		
29	Ice Wind Load (30)	DL					60	72		
30	Ice Wind Load (60)	DL					60	72		
31	Ice Wind Load (90)	DL					30	36		
32	Ice Wind Load (120)	DL					60	72		
33	Ice Wind Load (150)	DL					60	72		
34	Ice Wind Load (180)	DL					30	36		
35	Ice Wind Load (210)	DL					60	72		
36	Ice Wind Load (240)	DL					60	72		
37	Ice Wind Load (270)	DL					30	36		
38	Ice Wind Load (300)	DL					60	72		
39	Ice Wind Load (330)	DL					60	72		
40	Earthquake (x-directi...	DL	-.106				30			
41	Earthquake (y-directio...	DL		-.106			30			
42	Earthquake (z-directi...	DL			-.042		30			
43	BLC 3 Transient Area...	None						46		
44	BLC 27 Transient Are...	None						46		

Load Combinations

	Description	So...	P...	S...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...
1	1.4D	Yes	Y		3	1.4																		
2	1.2D + 1.0W(0)	Yes	Y		3	1.2	2	1																
3	1.2D + 1.0Di + 1.0W...	Yes	Y		3	1.2	27	1	28	1														
4	1.2D + 1.5L + 1.0Wl(...	Yes	Y		3	1.2	1	1.5	15	1														
5	1.2D + 1.0W(30)	Yes	Y		3	1.2	4	1																
6	1.2D + 1.0Di + 1.0W...	Yes	Y		3	1.2	27	1	29	1														
7	1.2D + 1.5L + 1.0Wl(...	Yes	Y		3	1.2	1	1.5	16	1														
8	1.2D + 1.0W(60)	Yes	Y		3	1.2	5	1																
9	1.2D + 1.0Di + 1.0W...	Yes	Y		3	1.2	27	1	30	1														
10	1.2D + 1.5L + 1.0Wl(...	Yes	Y		3	1.2	1	1.5	17	1														
11	1.2D + 1.0W(90)	Yes	Y		3	1.2	6	1																
12	1.2D + 1.0Di + 1.0W...	Yes	Y		3	1.2	27	1	31	1														
13	1.2D + 1.5L + 1.0Wl(...	Yes	Y		3	1.2	1	1.5	18	1														
14	1.2D + 1.0W(120)	Yes	Y		3	1.2	7	1																
15	1.2D + 1.0Di + 1.0W...	Yes	Y		3	1.2	27	1	32	1														
16	1.2D + 1.5L + 1.0Wl(...	Yes	Y		3	1.2	1	1.5	19	1														
17	1.2D + 1.0W(150)	Yes	Y		3	1.2	8	1																
18	1.2D + 1.0Di + 1.0W...	Yes	Y		3	1.2	27	1	33	1														
19	1.2D + 1.5L + 1.0Wl(...	Yes	Y		3	1.2	1	1.5	20	1														

Load Combinations (Continued)

	Description	So..	P...	S...	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..
20	1.2D + 1.0W(180)	Yes	Y		3	1.2	9	1																
21	1.2D + 1.0Di + 1.0W...	Yes	Y		3	1.2	27	1	34	1														
22	1.2D + 1.5L + 1.0Wl(...	Yes	Y		3	1.2	1	1.5	21	1														
23	1.2D + 1.0W(210)	Yes	Y		3	1.2	10	1																
24	1.2D + 1.0Di + 1.0W...	Yes	Y		3	1.2	27	1	35	1														
25	1.2D + 1.5L + 1.0Wl(...	Yes	Y		3	1.2	1	1.5	22	1														
26	1.2D + 1.0W(240)	Yes	Y		3	1.2	11	1																
27	1.2D + 1.0Di + 1.0W...	Yes	Y		3	1.2	27	1	36	1														
28	1.2D + 1.5L + 1.0Wl(...	Yes	Y		3	1.2	1	1.5	23	1														
29	1.2D + 1.0W(270)	Yes	Y		3	1.2	12	1																
30	1.2D + 1.0Di + 1.0W...	Yes	Y		3	1.2	27	1	37	1														
31	1.2D + 1.5L + 1.0Wl(...	Yes	Y		3	1.2	1	1.5	24	1														
32	1.2D + 1.0W(300)	Yes	Y		3	1.2	13	1																
33	1.2D + 1.0Di + 1.0W...	Yes	Y		3	1.2	27	1	38	1														
34	1.2D + 1.5L + 1.0Wl(...	Yes	Y		3	1.2	1	1.5	25	1														
35	1.2D + 1.0W(330)	Yes	Y		3	1.2	14	1																
36	1.2D + 1.0Di + 1.0W...	Yes	Y		3	1.2	27	1	39	1														
37	1.2D + 1.5L + 1.0Wl(...	Yes	Y		3	1.2	1	1.5	26	1														
38	1.2D + 1.0E(x) + 1.0...	Yes	Y		3	1.2	40	1	42	1	1	1												
39	1.2D + 1.0E(y) + 1.0...	Yes	Y		3	1.2	41	1	42	1	1	1												
40	1.2D - 1.0E(x) + 1.0...	Yes	Y		3	1.2	40	-1	42	1	1	1												
41	1.2D - 1.0E(y) + 1.0...	Yes	Y		3	1.2	41	-1	42	1	1	1												

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

	Member	Shape	Code Che...	Loc[ft]	LC	Shear C...	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*P...	phi*M...	phi*M...	Cb	Eqn
1	RAIL3c	L3X3X4	.724	7.218	21	.058	0	z	32	4.87	46.656	1.688	2.726	1....	H2-1
2	RAIL1c	L3X3X4	.715	6.956	33	.058	12.599	z	32	4.87	46.656	1.688	2.849	1....	H2-1
3	FACE1	C5X9	.686	1.125	8	.699	10.75	y	24	6.799	85.536	1.909	11.043	1....	H1-1a
4	RAIL2c	L3X3X4	.675	6.825	9	.060	12.599	z	11	4.87	46.656	1.688	2.855	1....	H2-1
5	FACE3	C5X9	.673	10.75	26	.722	10.75	y	12	6.799	85.536	1.909	11.853	1....	H1-1b
6	PLATE2	9x0.5	.670	.712	33	.170	.712	y	11	69.661	145.8	1.519	26.718	1....	H1-1b
7	PLATE1	9x0.5	.658	.712	9	.173	.712	y	23	69.661	145.8	1.519	27.338	1....	H1-1b
8	PLATE3	9x0.5	.652	.712	21	.179	.712	y	5	69.661	145.8	1.519	26.916	1....	H1-1b
9	MP BETA2	PIPE_2.5	.607	4.063	8	.193	4.063		2	22.373	50.715	3.596	3.596	2....	H1-1b
10	MP ALPHA2	PIPE_2.5	.599	4.063	29	.159	4.063		29	22.373	50.715	3.596	3.596	2....	H1-1b
11	MP ALPHA1	PIPE_2.5	.595	.375	30	.305	.375		20	37.774	50.715	3.596	3.596	3....	H1-1b
12	RAIL3a	L3X3X4	.593	7.481	26	.075	0	z	29	4.87	46.656	1.688	2.769	1....	H2-1
13	MP GAMMA2	PIPE_2.5	.592	4.063	14	.240	4.063		14	22.373	50.715	3.596	3.596	2....	H1-1b
14	MP GAMMA1	PIPE_2.5	.587	.375	18	.339	.375		8	37.774	50.715	3.596	3.596	4....	H1-1b
15	MP BETA1	PIPE_2.5	.582	.375	5	.275	.375		32	37.774	50.715	3.596	3.596	2....	H1-1b
16	FACE2	C5X9	.573	10.75	11	.895	7.25	z	14	6.799	85.536	1.909	11.853	2....	H1-1a
17	RAIL1a	L3X3X4	.565	7.481	2	.081	12.599	z	35	4.87	46.656	1.688	2.781	1....	H2-1
18	MP GAMMA3	PIPE_2.5	.554	.375	35	.209	.375		9	37.774	50.715	3.596	3.596	2....	H1-1b
19	CORNER	C4X4.5	.549	0	11	.065	1.551	z	11	11.715	43.416	1.093	5.535	1....	H1-1b
20	MP BETA3	PIPE_2.5	.549	.375	26	.195	.375		30	37.774	50.715	3.596	3.596	2....	H1-1b
21	RAIL2a	L3X3X4	.520	7.481	14	.082	12.599	z	11	4.87	46.656	1.688	2.789	1....	H2-1
22	MP ALPHA3	PIPE_2.5	.487	.375	14	.215	.375		18	37.774	50.715	3.596	3.596	1....	H1-1b
23	RAIL3b	L3X3X4	.472	11.024	26	.070	12.599	z	23	4.87	46.656	1.688	2.507	1....	H2-1
24	MP GAMMA4	PIPE_2.5	.449	.375	35	.287	.813		26	37.774	50.715	3.596	3.596	2....	H1-1b
25	MP ALPHA4	PIPE_2.5	.447	.375	11	.276	.813		2	37.774	50.715	3.596	3.596	2....	H1-1b
26	MP BETA4	PIPE_2.5	.445	.375	26	.268	.813		14	37.774	50.715	3.596	3.596	2....	H1-1b
27	RAIL1b	L3X3X4	.433	11.024	2	.072	12.599	z	35	4.87	46.656	1.688	2.485	1....	H2-1
28	RAIL2b	L3X3X4	.431	11.024	14	.074	12.599	z	11	4.87	46.656	1.688	2.591	1....	H2-1
29	SO2	HSS4X...	.276	3.656	30	.116	3.656	z	33	120.901	139.5...	16.181	16.181	1....	H1-1b
30	SO1	HSS4X...	.267	3.656	9	.111	3.656	z	9	120.901	139.5...	16.181	16.181	1....	H1-1b

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

	Member	Shape	Code Che...	Loc[ft]	LC	Shear C...	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*P...	phi*M...	phi*M...	Cb	Eqn
31	KICKER2	LL2.5x2...	.264	2.35	30	.008	0	z	20	44.827	58.32	3.954	2.55	1....	H1-1a
32	SO3	HSS4X...	.263	3.656	21	.113	3.656	z	18	120.901	139.5...	16.181	16.181	1....	H1-1b
33	SUP2	L4X3X4	.261	0	26	.012	0	z	26	29.625	54.756	1.844	4.889	1....	H2-1
34	KICKER1	LL2.5x2...	.257	.916	9	.006	0	z	35	44.827	58.32	3.954	2.55	2....	H1-1a
35	KICKER3	LL2.5x2...	.251	1.314	27	.012	0	z	11	44.827	58.32	3.954	2.55	1....	H1-1a
36	SUP1	L4X3X4	.245	0	20	.011	5.752	z	2	29.625	54.756	1.844	4.835	1....	H2-1

APPENDIX D

Additional Calculations

POD
POWER OF DESIGN

POD Job #	**22-126971**
Site Number	**806369**
Site Name	**HRT 094 943225**

Connection Type	Single Shear

RISA 3D Forces

Axial (Bolts)	0.369	kips
Shear (Bolts)	0.407	kips
Axial Force (Member)	0.407	kips

Bolt/Member Information

Member Label	RAIL1a	
# of Bolts	1	
Diameter	0.625	inches
Bolt Grade	A325	
Member Grade	A36	
Threads Included?	Yes	
L_b	0	inches
L_c	1	inches
t	0.25	inches

Shear Capacity	**2.9%**
Axial Capacity	**1.8%**
Bearing Capacity	**2.5%**
Combined Capacity	**0.1%**

Ver 1.0 - 2/28/2020

POD Job #	**22-126971**
Site Number	**806369**
Site Name	**HRT 094 943225**

Standoff Flange Plate

Calculations Based on *TIA-222-H*

Reactions from RISA-3D

Moment	0.467	ft-kip
Axial	8.589	kips
Shear	9.555	kips

Capacities

Bolts	*4.6%*
Flange Plate	*14.3%*

Bolt Information

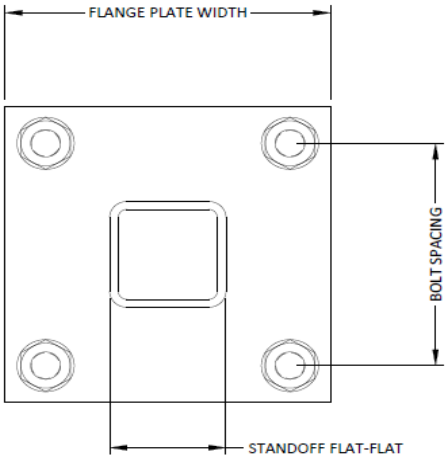
Grade	A325	
Threads in Shear Plane	Included	
Diameter	0.625	in.
Bolt Spacing	6	in.
Number of Rods	4	

Flange Plate Inforation

Width	8	in.
Thickness	0.75	in.
Grade	A36	

Standoff Information

Standoff Member	HSS	
Flat-Flat	4	in.
Thickness	0.25	in.



Bolt Calculations

ϕ	0.75	
A_{nt}	0.226	in^2
A_b	0.307	in^2
Fu	120	ksi
ϕR_{nV}	13.81	kips
ϕR_{nt}	20.34	kips
V	2.39	kips
F	2.61	kips
Capacity	4.6%	

Flange Plate Calculations

ϕ	0.9	
Fy	36	ksi
t_{min}	0.15	in
Z	1.1	in^3
ϕM_n	36.5	in-kip
M_u	5.2	in-kip
Capacity	14.3%	

Ver 1.0 - 3/5/2019

POD Job #	**22-126971**
Site Number	**806369**
Site Name	**HRT 094 943225**

Kicker Flange Plate

Calculations Based on *TIA-222-H*

Reactions from RISA-3D

Moment	1.198	ft-kip
Axial	0.181	kips
Shear	9.22	kips

Capacities

Bolts	*3.2%*
Flange Plate	*18.7%*

Bolt Information

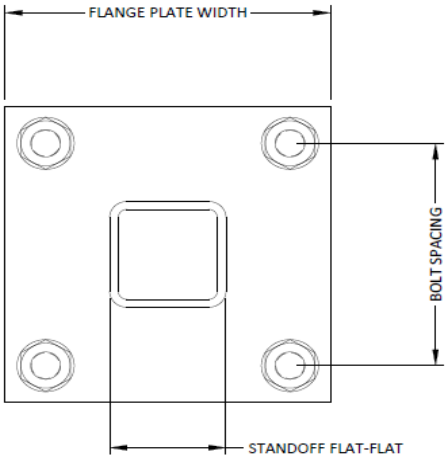
Grade	A325	
Threads in Shear Plane	Included	
Diameter	0.625	in.
Bolt Spacing	6	in.
Number of Rods	4	

Flange Plate Inforation

Width	8	in.
Thickness	0.75	in.
Grade	A36	

Standoff Information

Standoff Member	HSS	
Flat-Flat	0.5	in.
Thickness	0.5	in.



Bolt Calculations

ϕ	0.75	
A_{nt}	0.226	in^2
A_b	0.307	in^2
Fu	120	ksi
ϕR_{nV}	13.81	kips
ϕR_{nt}	20.34	kips
V	2.31	kips
F	1.24	kips
Capacity	3.2%	

Flange Plate Calculations

ϕ	0.9	
Fy	36	ksi
t_{min}	0.20	in
Z	1.1	in^3
ϕM_n	36.5	in-kip
M_u	6.8	in-kip
Capacity	18.7%	

Ver 1.0 - 3/5/2019

EBI Consulting

environmental | engineering | due diligence

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

T-Mobile Existing Facility

Site ID: CT11161D

CT161/Jn of Albany_1
439-455 Homestead Avenue
Hartford, Connecticut 06105

July 11, 2022

Site Compliance Summary	
Compliance Status:	**COMPLIANT**
Site total MPE% of FCC general population allowable limit:	**47.29%**

21 B Street, Burlington, MA 01803 · Tel: (781) 273.2500 · Fax: (781) 273.3311

July 11, 2022

T-Mobile
Attn: Jason Overbey, RF Manager
35 Griffin Road South
Bloomfield, Connecticut 06002

Emissions Analysis for Site: CT11161D - CT161/Jn of Albany_1

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **439-455 Homestead Avenue** in **Hartford, Connecticut** for the purpose of determining whether the emissions from the Proposed T-Mobile 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 97-01and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu W/cm^2$). The number of $\mu W/cm^2$ 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 population 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 population 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 microwatts per square centimeter ($\mu W/cm^2$). The general population exposure limits for the 600 MHz and 700 MHz frequency bands are approximately 400 $\mu W/cm^2$ and 467 $\mu W/cm^2$, respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 11 GHz frequency bands is 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.

CALCULATIONS

Calculations were done for the proposed T-Mobile Wireless antenna facility located at 439-455 Homestead Avenue in Hartford, Connecticut using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since T-Mobile is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was focused at the base of the tower. For this report, the sample point is the top of a 6-foot person standing at the base of the tower.

For all calculations, all equipment was calculated using the following assumptions:

1) 1 LTE channel (600 MHz Band) was considered for each sector of the proposed installation. This Channel has a transmit power of 40 Watts.

2) 1 NR channel (600 MHz Band) was considered for each sector of the proposed installation. This Channel has a transmit power of 80 Watts.

3) 1 LTE channel (700 MHz Band) was considered for each sector of the proposed installation. This Channel has a transmit power of 40 Watts per Channel.

4) 1 GSM channel (PCS Band - 1900 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 10 Watts per Channel.

5) 1 LTE channel (PCS Band - 1900 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 160 Watts per Channel.

6) 1 LTE channel (AWS Band – 2100 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 160 Watts per Channel.

7) 1 LTE Traffic channel (LTE 1C and 2C BRS Band - 2500 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 60 Watts.

8) 1 LTE Broadcast channel (LTE 1C and 2C BRS Band - 2500 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 20 Watts.

9) 1 NR Traffic channel (BRS Band - 2500 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 120 Watts.

10) 1 NR Broadcast channel (BRS Band - 2500 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 40 Watts.

11) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.

12) For the following calculations, the sample point was the top of a 6-foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used in this direction. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.

13) The antennas used in this modeling are the Ericsson AIR 6419 for the 2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz channel(s), the RFS APXVAARR24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz channel(s), the Commscope VV-65A-R1 for the 1900 MHz / 1900 MHz / 2100 MHz channel(s) in Sector A, the Ericsson AIR 6419 for the 2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz channel(s), the RFS APXVAARR24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz channel(s), the Commscope VV-65A-R1 for the 1900 MHz / 1900 MHz / 2100 MHz channel(s) in Sector B, the Ericsson AIR 6419 for the 2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz channel(s), the RFS APXVAARR24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz channel(s), the Commscope VV-65A-R1 for the 1900 MHz / 1900 MHz / 2100 MHz channel(s) in Sector C. This is based on feedback from the carrier with regard to anticipated antenna selection. All Antenna gain values and associated transmit power levels are shown in the Site Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used for all

calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.

14) The antenna mounting height centerline of the proposed antennas is 128 feet above ground level (AGL).

15) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.

16) All calculations were done with respect to uncontrolled / general population threshold limits.

T-Mobile Site Inventory and Power Data

Sector:	A	Sector:	B	Sector:	C
Antenna #:	1	Antenna #:	1	Antenna #:	1
Make / Model:	Ericsson AIR 6419	Make / Model:	Ericsson AIR 6419	Make / Model:	Ericsson AIR 6419
Frequency Bands:	2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz	Frequency Bands:	2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz	Frequency Bands:	2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz
Gain:	22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd	Gain:	22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd	Gain:	22.05 dBd / 15.55 dBd / 22.05 dBd / 15.55 dBd
Height (AGL):	128 feet	Height (AGL):	128 feet	Height (AGL):	128 feet
Channel Count:	4	Channel Count:	4	Channel Count:	4
Total TX Power (W):	240.00 Watts	Total TX Power (W):	240.00 Watts	Total TX Power (W):	240.00 Watts
ERP (W):	31,011.95	ERP (W):	31,011.95	ERP (W):	31,011.95
Antenna A1 MPE %:	**7.49%**	Antenna B1 MPE %:	**7.49%**	Antenna C1 MPE %:	**7.49%**
Antenna #:	**2**	Antenna #:	**2**	Antenna #:	**2**
Make / Model:	RFS APXVAARR24_43-U-NA20	Make / Model:	RFS APXVAARR24_43-U-NA20	Make / Model:	RFS APXVAARR24_43-U-NA20
Frequency Bands:	600 MHz / 600 MHz / 700 MHz	Frequency Bands:	600 MHz / 600 MHz / 700 MHz	Frequency Bands:	600 MHz / 600 MHz / 700 MHz
Gain:	12.95 dBd / 12.95 dBd / 13.35 dBd	Gain:	12.95 dBd / 12.95 dBd / 13.35 dBd	Gain:	12.95 dBd / 12.95 dBd / 13.35 dBd
Height (AGL):	128 feet	Height (AGL):	128 feet	Height (AGL):	128 feet
Channel Count:	3	Channel Count:	3	Channel Count:	3
Total TX Power (W):	160.00 Watts	Total TX Power (W):	160.00 Watts	Total TX Power (W):	160.00 Watts
ERP (W):	3,231.99	ERP (W):	3,231.99	ERP (W):	3,231.99
Antenna A2 MPE %:	**1.88%**	Antenna B2 MPE %:	**1.88%**	Antenna C2 MPE %:	**1.88%**
Antenna #:	**3**	Antenna #:	**3**	Antenna #:	**3**
Make / Model:	Commscope VV-65A-R1	Make / Model:	Commscope VV-65A-R1	Make / Model:	Commscope VV-65A-R1
Frequency Bands:	1900 MHz / 1900 MHz / 2100 MHz	Frequency Bands:	1900 MHz / 1900 MHz / 2100 MHz	Frequency Bands:	1900 MHz / 1900 MHz / 2100 MHz
Gain:	15.55 dBd / 15.55 dBd / 16.05 dBd	Gain:	15.55 dBd / 15.55 dBd / 16.05 dBd	Gain:	15.55 dBd / 15.55 dBd / 16.05 dBd
Height (AGL):	128 feet	Height (AGL):	128 feet	Height (AGL):	128 feet
Channel Count:	3	Channel Count:	3	Channel Count:	3
Total TX Power (W):	330.00 Watts	Total TX Power (W):	330.00 Watts	Total TX Power (W):	330.00 Watts
ERP (W):	12,545.15	ERP (W):	12,545.15	ERP (W):	12,545.15
Antenna A3 MPE %:	**3.03%**	Antenna B3 MPE %:	**3.03%**	Antenna C3 MPE %:	**3.03%**

Site Composite MPE %	
Carrier	**MPE %**
T-Mobile (Max at Sector A):	12.40%
Sprint	1.23%
Clearwire	0.19%
Sensus (CL&P)	0.25%
Metro PCS	1.57%
Verizon	2.87%
AT&T	28.78%
Site Total MPE % :	47.29%

T-Mobile MPE % Per Sector	
T-Mobile Sector A Total:	12.40%
T-Mobile Sector B Total:	12.40%
T-Mobile Sector C Total:	12.40%
Site Total MPE % :	47.29%

T-Mobile Maximum MPE Power Values (Sector A)

T-Mobile Frequency Band / Technology (Sector A)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density (μW/cm²)	Frequency (MHz)	Allowable MPE (μW/cm²)	Calculated % MPE
T-Mobile 2500 MHz LTE 1C & 2C Traffic	1	9619.47	128.0	23.24	2500 MHz LTE 1C & 2C Traffic	1000	2.32%
T-Mobile 2500 MHz LTE 1C & 2C Broadcast	1	717.84	128.0	1.73	2500 MHz LTE 1C & 2C Broadcast	1000	0.17%
T-Mobile 2500 MHz NR Traffic	1	19238.94	128.0	46.47	2500 MHz NR Traffic	1000	4.65%
T-Mobile 2500 MHz NR Broadcast	1	1435.69	128.0	3.47	2500 MHz NR Broadcast	1000	0.35%
T-Mobile 600 MHz LTE	1	788.97	128.0	1.91	600 MHz LTE	400	0.48%
T-Mobile 600 MHz NR	1	1577.94	128.0	3.81	600 MHz NR	400	0.95%
T-Mobile 700 MHz LTE	1	865.09	128.0	2.09	700 MHz LTE	467	0.45%
T-Mobile 1900 MHz GSM	1	358.92	128.0	0.87	1900 MHz GSM	1000	0.09%
T-Mobile 1900 MHz LTE	1	5742.75	128.0	13.87	1900 MHz LTE	1000	1.39%
T-Mobile 2100 MHz LTE	1	6443.47	128.0	15.56	2100 MHz LTE	1000	1.56%
						Total:	**12.40%**

• NOTE: Totals may vary by approximately 0.01% due to summation of remainders in calculations.

Summary

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

The anticipated maximum composite contributions from the T-Mobile facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

T-Mobile Sector	Power Density Value (%)
Sector A:	12.40%
Sector B:	12.40%
Sector C:	12.40%
T-Mobile Maximum MPE % (Sector A):	12.40%
Site Total:	47.29%
Site Compliance Status:	**COMPLIANT**

The anticipated composite MPE value for this site assuming all carriers present is **47.29%** of the allowable FCC established general population limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

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 well within the allowable 100% threshold standard per the federal government.

T-Mobile

T-MOBILE SITE NUMBER: CT11161D
T-MOBILE SITE NAME: CT161/JN OF ALBANY_1
SITE TYPE: MONOPOLE
TOWER HEIGHT: 140'-0"

BUSINESS UNIT #: 806369
SITE ADDRESS: 439-455 HOMESTEAD AVE HARTFORD, CT 06105
COUNTY: HARTFORD
JURISDICTION: HARTFORD COUNTY

T-MOBILE ANCHOR SITE CONFIGURATION: 67E5998E_1XAIR+1OP+1QP

SITE INFORMATION

CROWN CASTLE USA INC. SITE NAME:	HRT 094 943225
SITE ADDRESS:	439-455 HOMESTEAD AVE HARTFORD, CT 06105
COUNTY:	HARTFORD
MAP/PARCEL #:	152-181-002
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41.78371900° (41° 47' 1.61")
LONGITUDE:	-72.70374300° (-72° 42' 13.66")
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	±54 FT
CURRENT ZONING:	CX-1
JURISDICTION:	HARTFORD COUNTY
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	TALAR PROPERTIES, LLC. 705 N MOUNTAIN RD NEWINGTON, CT
TOWER OWNER:	CROWN CASTLE 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	T-MOBILE 12920 SE 38TH STREET BELLEVUE, WA 98006
ELECTRIC PROVIDER:	CONNECTICUT LIGHT AND POWER
TELCO PROVIDER:	TBD

PROJECT TEAM

A&E FIRM:	INFINIGY 500 WEST OFFICE CENTER DRIVE / SUITE 150 FORT WASHINGTON, PA 19034
CROWN CASTLE USA INC. DISTRICT CONTACTS:	3 CORPORATE PARK DRIVE, SUITE 101 CLIFTON PARK, NY 12065
	PATRICIA PELON - PROJECT MANAGER TRICIA.PELON@CROWNCASTLE.COM
	JASON D'AMICO - CONSTRUCTION MANAGER JASON.DAMICO@CROWNCASTLE.COM

DRAWING INDEX

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ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 11X17. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

PROJECT DESCRIPTION

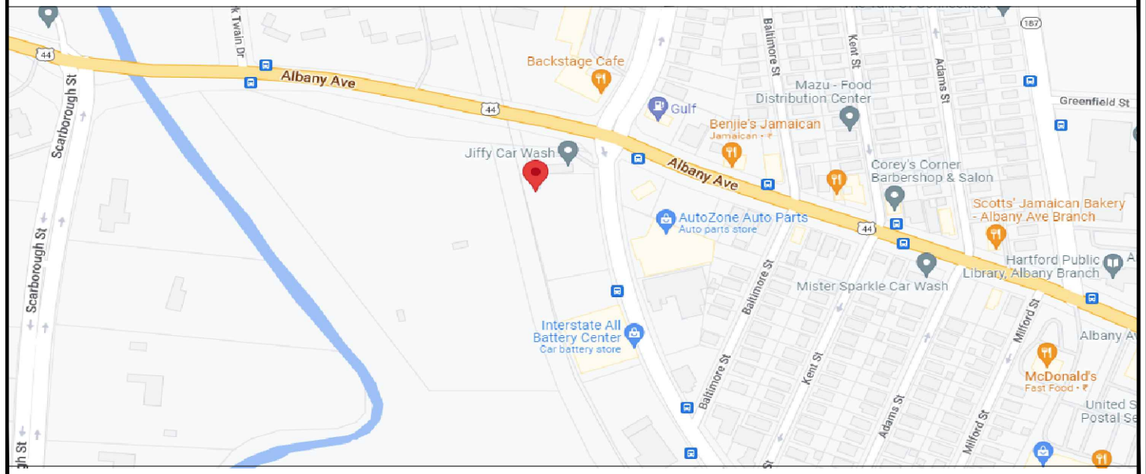
THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.

TOWER SCOPE OF WORK:
- REMOVE (6) ANTENNAS
- REMOVE (3) TMAS
- REMOVE (9) COAX CABLES
- INSTALL (6) ANTENNAS
- INSTALL (3) RRHS
- INSTALL (3) HYBRID CABLES

GROUND SCOPE OF WORK:
- REMOVE (1) EQUIPMENT CABINET
- REMOVE (2) DUW30 FROM (E) RBS 6131 CABINET
- REMOVE (6) RU22 FROM (E) RBS 6131 CABINET
- INSTALL (1) 6160 & (1) B160 BATTERY CABINET
- INSTALL (1) PSU4813 VOLTAGE BOOSTER IN (P) CABINET
- INSTALL (1) CSR IXRE ROUTER IN (P) CABINET
- INSTALL (1) RP6651 IN (P) CABINET

NOTE:
PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN NOC AT (800) 788-7011 & CROWN CONSTRUCTION MANAGER.

LOCATION MAP



NO SCALE

APPLICABLE CODES/REFERENCE DOCUMENTS

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

CODE TYPE	CODE
BUILDING	2018 CT STATE BUILDING CODE
MECHANICAL	2015 IMC
ELECTRICAL	2017 NEC

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS: DATED:	MORRISON HERSHFIELD 04/26/2022
MOUNT ANALYSIS: DATED:	POD GROUP 04/19/2022
RFDS REVISION: DATED:	5 03/22/2022
ORDER ID: REVISION:	608638 0

CALL CONNECTICUT ONE CALL (800) 922-4455 CBYD.COM CALL 2 WORKING DAYS BEFORE YOU DIG!

APPROVALS

APPROVAL	SIGNATURE	DATE
PROPERTY OWNER OR REP.		
LAND USE PLANNER		
T-MOBILE		
OPERATIONS		
RF		
NETWORK		
BACKHAUL		
CONSTRUCTION MANAGER		

THE PARTIES ABOVE HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES AND MODIFICATIONS THEY MAY IMPOSE.

T-Mobile
12920 SE 38TH STREET
BELLEVUE, WA 98006

CROWN CASTLE
3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

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T-MOBILE SITE NUMBER:
CT11161D

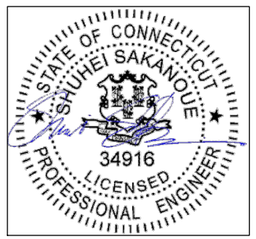
BU #: **806369**
HRT 094 943225

439-455 HOMESTEAD AVE
HARTFORD, CT 06105

EXISTING 140'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	05/06/2022	RCD	PRELIMINARY	SS
B	08/08/2022	RCD	PRELIMINARY	SS
0	08/22/2022	RCD	100% FINALS	SS



08/22/2022

SHEET NUMBER: T-1
REVISION: 0

CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

1. NOTICE TO PROCEED– NO WORK SHALL COMMENCE PRIOR TO CROWN CASTLE USA INC. WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN CASTLE USA INC. NOC AT 800–788–7011 & THE CROWN CASTLE USA INC. CONSTRUCTION MANAGER.
2. "LOOK UP" – CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT:
THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR CROWN CASTLE USA INC. POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.
3. PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LIMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING. AFTER ONSITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL REQUIREMENTS.
4. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN, AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND CROWN CASTLE USA INC. STANDARD CED–STD–10253, INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA–322 (LATEST EDITION).
5. ALL SITE WORK TO COMPLY WITH QAS–STD–10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE," CED–STD–10294 "STANDARD FOR INSTALLATION OF MOUNTS AND APPURTENANCES," AND LATEST VERSION OF ANSI/TIA–1019–A–2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."
6. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY CROWN CASTLE USA INC. PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
9. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
10. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES.
11. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS, LATEST APPROVED REVISION.
12. CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
13. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, TOWER OWNER, CROWN CASTLE USA INC., AND/OR LOCAL UTILITIES.
14. THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS.
15. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS.
16. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
17. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS.
18. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
19. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
20. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
21. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.
22. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION
CARRIER: T–MOBILE
TOWER OWNER: CROWN CASTLE USA INC.
2. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
3. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.
4. NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.
5. SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.
6. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CROWN CASTLE.
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
8. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
9. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
10. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND CROWN CASTLE PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
11. CONTRACTOR IS TO PERFORM A SITE INVESTIGATION AND IS TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN DRAWINGS.
12. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF CROWN CASTLE USA INC.
13. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
14. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST–IN–PLACE CONCRETE.
2. UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf.
3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90°f AT TIME OF PLACEMENT.
4. CONCRETE EXPOSED TO FREEZE–THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER–TO–CEMENT RATIO (W/C) OF 0.45.
5. ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (Fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:
#4 BARS AND SMALLER............40 ksi
#5 BARS AND LARGER............60 ksi
6. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH............3"
CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 BARS AND LARGER............2"
#5 BARS AND SMALLER............1–1/2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
SLAB AND WALLS............3/4"
BEAMS AND COLUMNS............1–1/2"
7. A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

GREENFIELD GROUNDING NOTES:

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
2. THE CONTRACTOR SHALL PERFORM IEEE FALL–OF–POTENTAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
6. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 BARE SOLID TINNED COPPER FOR OUTDOOR BTS.
7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.
8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
15. APPROVED ANTIOXIDANT COATINGS (i.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
17. MISCELLANEOUS ELECTRICAL AND NON–ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
18. BOND ALL METALLIC OBJECTS WITHIN 6 ft OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR.
19. GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON–METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 3/4" NON–METALLIC, FLEXIBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD–WELD TERMINATION POINT. THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).
21. BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY).

ELECTRICAL INSTALLATION NOTES:

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
2. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
4.1. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.
4.2. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 22,000 AIC MINIMUM. VERYIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE PRE THE GOVERNING JURISDICTION.
5. EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR–CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
6. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (i.e. PANEL BOARD AND CIRCUIT ID'S).
7. PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
8. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
9. ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THHW, THWN, THWN–2, XHHW, XHHW–2, THW, THW–2, RHW, OR RHW–2 INSULATION UNLESS OTHERWISE SPECIFIED.
10. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THHW, THWN, THWN–2, XHHW, XHHW–2, THW, THW–2, RHW, OR RHW–2 INSULATION UNLESS OTHERWISE SPECIFIED.
11. POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI–CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.
12. POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI–CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH TYPE THHW, THWN, THWN–2, XHHW, XHHW–2, THW, THW–2, RHW, OR RHW–2 INSULATION UNLESS OTHERWISE SPECIFIED.
13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP–STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75° C (90° C IF AVAILABLE).
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
15. ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
16. ELECTRICAL METALLIC TUBING (EMT) OR METAL–CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
17. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
18. LIQUID–TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID–TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION–TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND THE NEC.
21. WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREMOLD SPECMATE WIREWAY).
22. SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).
23. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON–PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES (i.e. POWDER–ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.
24. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY–COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3R (OR BETTER) FOR EXTERIOR LOCATIONS.
25. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY–COATED OR NON–CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
26. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
27. THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR CROWN CASTLE USA INC. BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
28. THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
29. INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "T–MOBILE".
30. ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

CONDUCTOR COLOR CODE

SYSTEM	CONDUCTOR	COLOR
120/240V, 1Ø	A PHASE	BLACK
	B PHASE	RED
	NEUTRAL	WHITE
	GROUND	GREEN
120/208V, 3Ø	A PHASE	BLACK
	B PHASE	RED
	C PHASE	BLUE
	NEUTRAL	WHITE
	GROUND	GREEN
277/480V, 3Ø	A PHASE	BROWN
	B PHASE	ORANGE OR PURPLE
	C PHASE	YELLOW
	NEUTRAL	GREY
	GROUND	GREEN
DC VOLTAGE	POS (+)	RED**
	NEG (–)	BLACK**

* SEE NEC 210.5(C)(1) AND (2)
** POLARITY MARKED AT TERMINATION

APWA UNIFORM COLOR CODE:

WHITE	PROPOSED EXCAVATION
PINK	TEMPORARY SURVEY MARKINGS
RED	ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES
YELLOW	GAS, OIL, STEAM, PETROLEUM, OR GASEOUS MATERIALS
ORANGE	COMMUNICATION, ALARM OR SIGNAL LINES, CABLES, OR CONDUIT AND TRAFFIC LOOPS
BLUE	POTABLE WATER
PURPLE	RECLAIMED WATER, IRRIGATION, AND SLURRY LINES
GREEN	SEWERS AND DRAIN LINES

ABBREVIATIONS:

ANT	ANTENNA
(E)	EXISTING
FIF	FACILITY INTERFACE FRAME
GEN	GENERATOR
GPS	GLOBAL POSITIONING SYSTEM
GSM	GLOBAL SYSTEM FOR MOBILE
LTE	LONG TERM EVOLUTION
MGB	MASTER GROUND BAR
MW	MICROWAVE
(N)	NEW
NEC	NATIONAL ELECTRIC CODE
(P)	PROPOSED
PP	POWER PLANT
QTY	QUANTITY
RECT	RECTIFIER
RBS	RADIO BASE STATION
RET	REMOTE ELECTRIC TILT
RFDS	RADIO FREQUENCY DATA SHEET
RRH	REMOTE RADIO HEAD
RRU	REMOTE RADIO UNIT
SIAD	SMART INTEGRATED DEVICE
TMA	TOWER MOUNTED AMPLIFIER
TYP	TYPICAL
UMTS	UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM
W.P.	WORK POINT

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BU #: **806369**
HRT 094 943225

439-455 HOMESTEAD AVE
HARTFORD, CT 06105

EXISTING 140'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	05/06/2022	RCD	PRELIMINARY	SS
B	08/08/2022	RCD	PRELIMINARY	SS
0	08/22/2022	RCD	100% FINALS	SS

STATE OF CONNECTICUT
SHUHEI SAKANOUE
34916
LICENSED PROFESSIONAL ENGINEER

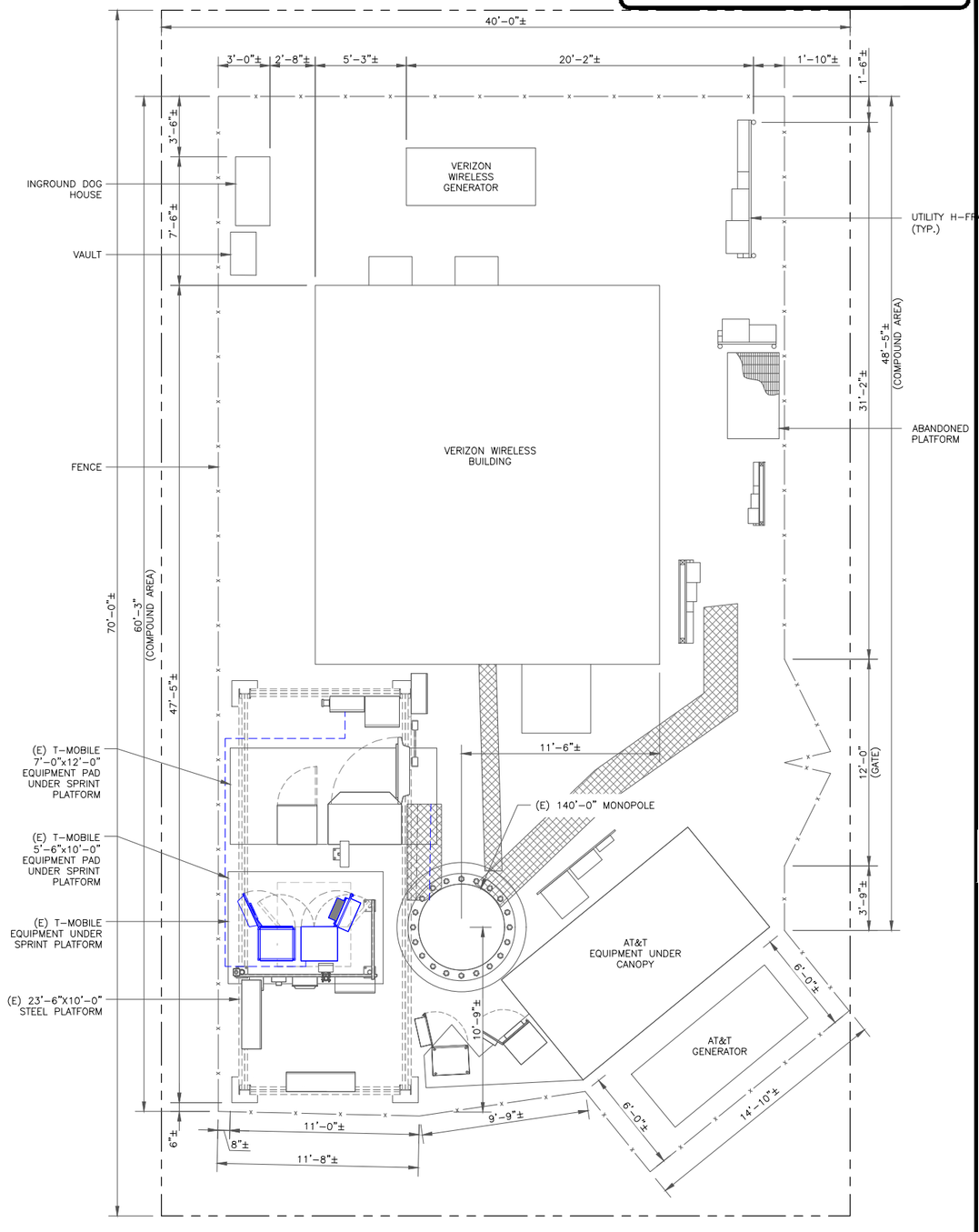
08/22/2022

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET NUMBER:	REVISION:
T-2	0

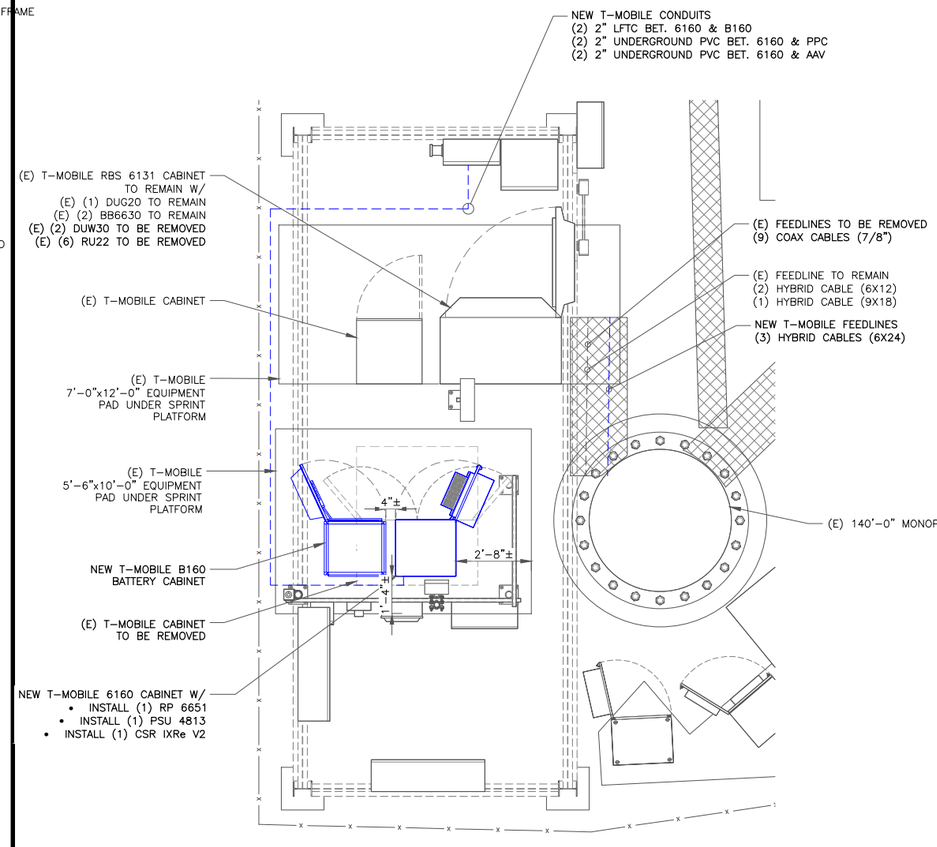
NOTE:

1. PLANS BASED ON SITE PLAN PROVIDED BY TOWER OWNER AND SITE VISIT PERFORMED BY INFINIGY. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATION/ORIENTATION OF EXISTING T-MOBILE EQUIPMENT.



1 SITE PLAN
SCALE: 4' 3' 2' 1' 0 4' — 1/4"=1'-0" (FULL SIZE) 1/8"=1'-0" (11x17)

N



2 ENLARGED SITE PLAN
SCALE: 2' 1' 0 2' — 3/8"=1'-0" (FULL SIZE) 3/16"=1'-0" (11x17)

N

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EXISTING 140'-0" MONOPOLE

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STATE OF CONNECTICUT
SHUHEI SAKAMOTO
34916
LICENSED PROFESSIONAL ENGINEER

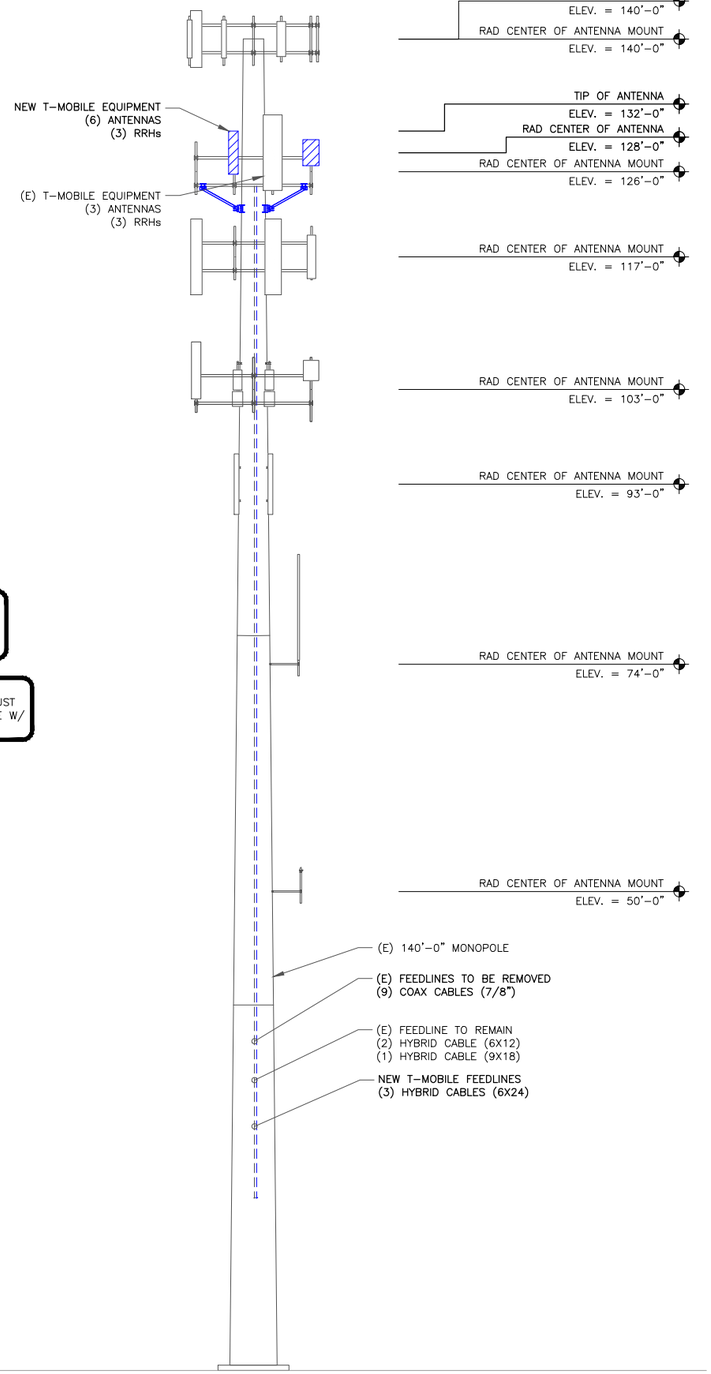
08/22/2022

SHEET NUMBER: C-1

REVISION: 0

NOTES:

1. ELEVATION BASED ON DRAWING PROVIDED BY TOWER OWNER. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATION/ORIENTATION OF EXISTING EQUIPMENT.
2. INFINIGY HAS NOT EVALUATED THE TOWER OR MOUNT STRUCTURE AND ASSUMES NO RESPONSIBILITY FOR THEIR STRUCTURAL INTEGRITY REGARDING PROPOSED LOADINGS. FINAL INSTALLATION SHALL COMPLY WITH RESULTS OF PASSING STRUCTURAL ANALYSES PERFORMED BY OTHERS.



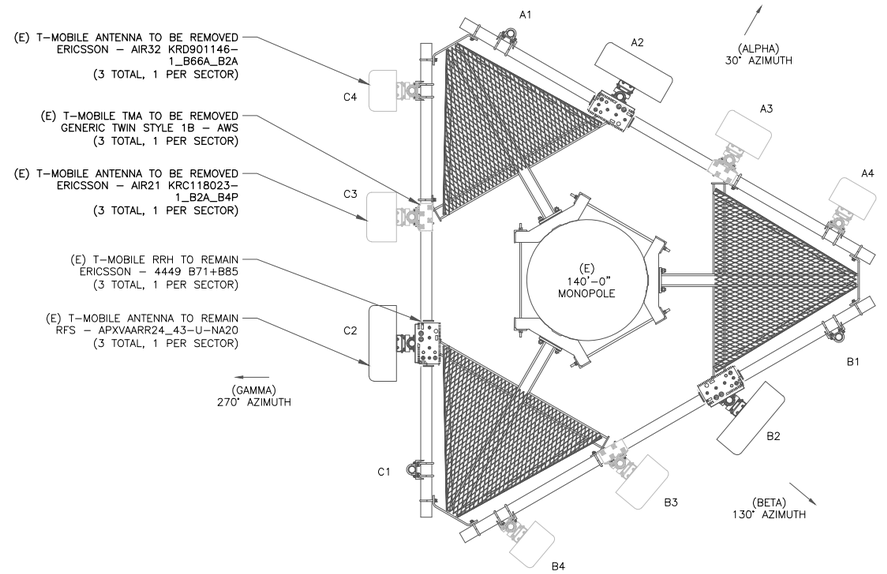
T-MOBILE EQUIPMENT

ANTENNA CL: 128'-0"
MOUNT CL: 126'-0"

ANY AND ALL TOWER MOUNTED EQUIPMENT MUST NOT TRAP OR INTERFERE W/ EXISTING SAFETY CLIMB

1 FINAL ELEVATION

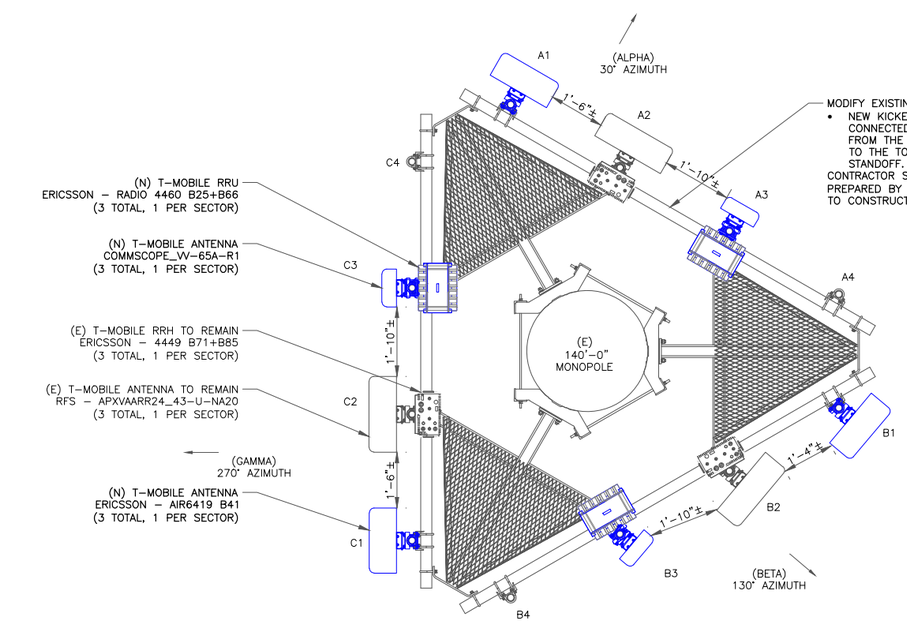
SCALE: 2' 1' 0 2' 3/8"=1'-0" (FULL SIZE) 3/16"=1'-0" (11x17)



2 EXISTINGL ANTENNA LAYOUT

SCALE: 1' 6" 0 1' 1"=1'-0" (FULL SIZE) 1/2"=1'-0" (11x17)

N



MODIFY EXISTING T-MOBILE PLATFORM MOUNT WITH

- NEW KICKER SUPPORT, SITEPRO1 P/N: PRK-1245, CONNECTED TO THE MOUNT STANDOFF AT 3'-8" FROM THE TOWER FLANGE PLATE, AND CONNECTED TO THE TOWER 2 FT BELLOW THE MOUNT STANDOFF.

CONTRACTOR SHALL REFER TO THE NEW MA PREPARED BY POD GROUP ON 04/19/2022 PRIOR TO CONSTRUCTION.

3 FINAL ANTENNA LAYOUT

SCALE: 1' 6" 0 1' 1"=1'-0" (FULL SIZE) 1/2"=1'-0" (11x17)

N

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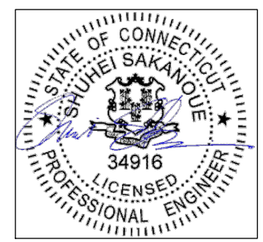


08/22/2022

SHEET NUMBER: C-2

REVISION: 0

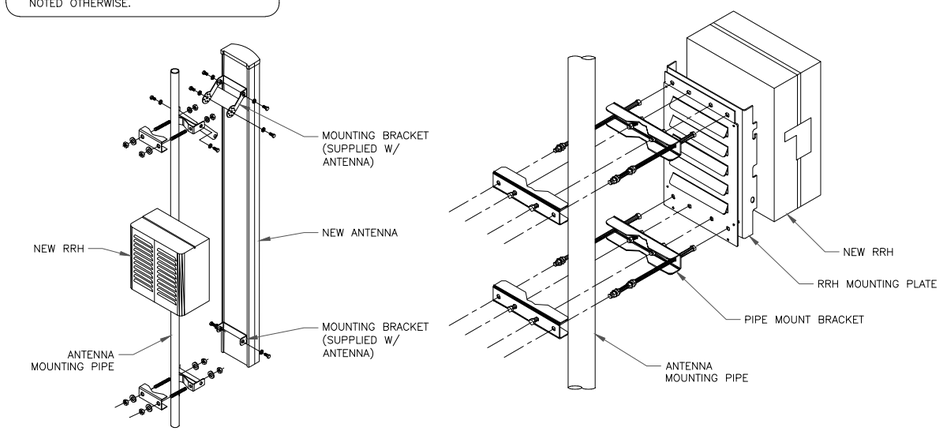
ANTENNA SCHEDULE

SECTOR	POS.	TECHNOLOGY	RAD CENTER	AZIMUTH	ANTENNA MANUFACTURER	ANTENNA MODEL	MECH. TILT	ELECT. TILT	TOWER MOUNTED EQUIPMENT	FEEDLINE TYPE
ALPHA	A1	L2500. N2500	128'-0"	30°	ERICSSON	ERICSSON – AIR6419 B41	0	–	–	(2) 6X12 HYBRID
ALPHA	A2	L700, L600, N600	128'-0"	30°	RFS	RFS – APXVAARR24_43-UNA20	0	–	(1) ERICSSON – RRUS 4449 B71/B85	(1) 9X18 HYBRID
ALPHA	A3	L2100, L1900, G1900	128'-0"	30°	COMMSCOPE	COMMSCOPE – VV-65A-R1	0	–	(1) ERICSSON – RRUS 4460 B25+B66	(2) 6X24 HYBRID 50M IN LENGTH
BETA	B1	L2500. N2500	128'-0"	130°	ERICSSON	ERICSSON – AIR6419 B41	0	–	–	–
BETA	B2	L700, L600, N600	128'-0"	130°	RFS	RFS – APXVAARR24_43-UNA20	0	–	(1) ERICSSON – RRUS 4449 B71/B85	–
BETA	B3	L2100, L1900, G1900	128'-0"	130°	COMMSCOPE	COMMSCOPE – VV-65A-R1	0	–	(1) ERICSSON – RRUS 4460 B25+B66	–
GAMMA	C1	L2500. N2500	128'-0"	270°	ERICSSON	ERICSSON – AIR6419 B41	0	–	–	–
GAMMA	C2	L700, L600, N600	128'-0"	270°	RFS	RFS – APXVAARR24_43-UNA20	0	–	(1) ERICSSON – RRUS 4449 B71/B85	–
GAMMA	C3	L2100, L1900, G1900	128'-0"	270°	COMMSCOPE	COMMSCOPE – VV-65A-R1	0	–	(1) ERICSSON – RRUS 4460 B25+B66	–

1 ANTENNA AND CABLE 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.



NOTE:

1. CONTRACTOR SHALL INSTALL 3RD DUAL RRH MOUNT TO ACCOMMODATE ALL RRH BRACKETS HOLES IF NECESSARY.

2 ANTENNA WITH RRH MOUNTING DETAIL
SCALE: NOT TO SCALE

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STATE OF CONNECTICUT
SHUHEI SAKANOUE
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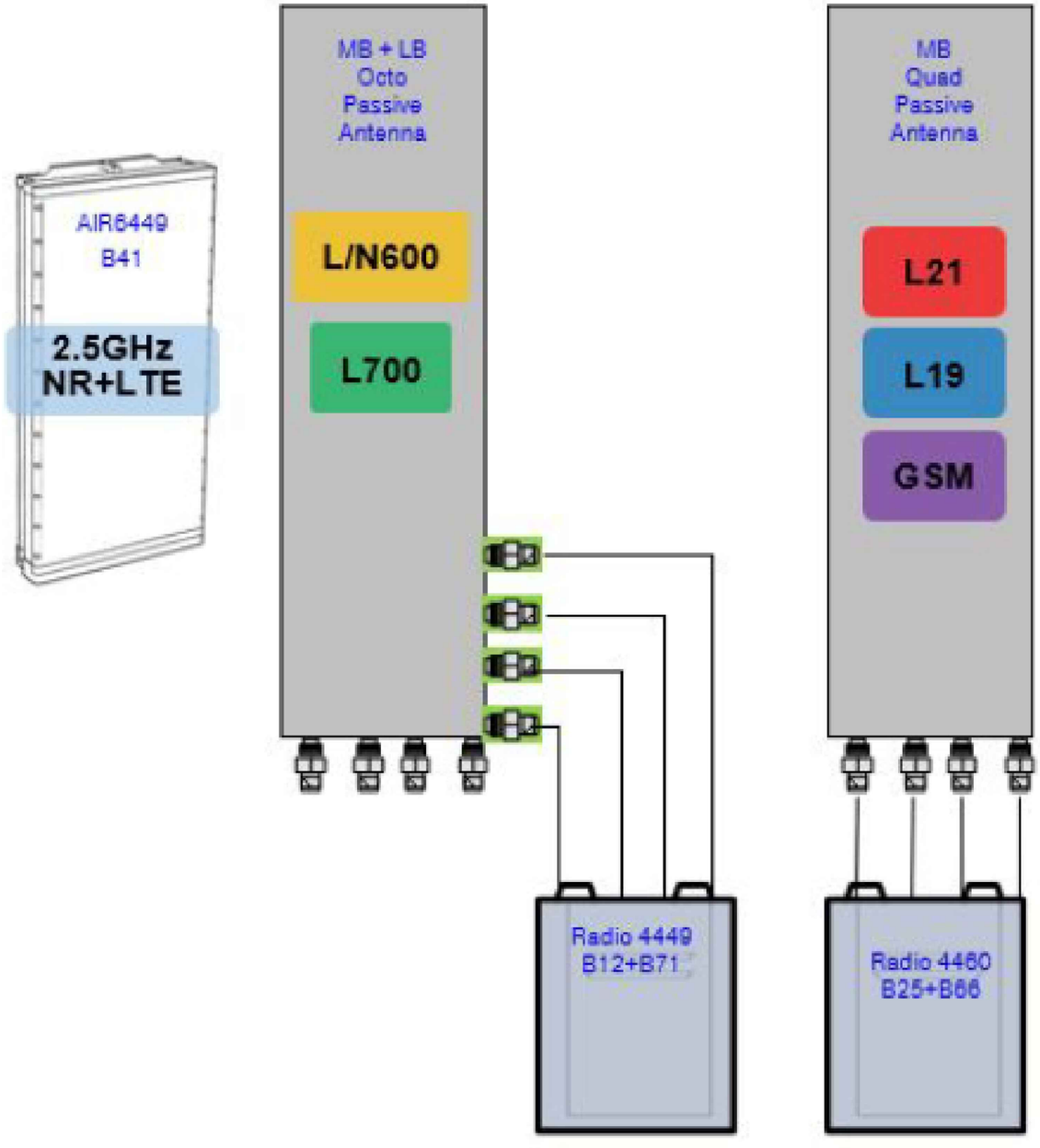
LICENSED PROFESSIONAL ENGINEER

08/22/2022

SHEET NUMBER: C-3

REVISION: 0



1 PLUMBING DIAGRAM
SCALE: NOT TO SCALE

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EXISTING 140'-0" MONOPOLE

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0	08/22/2022	RCD	100% FINALS	SS

STATE OF CONNECTICUT
SHUHEI SAKANOUE
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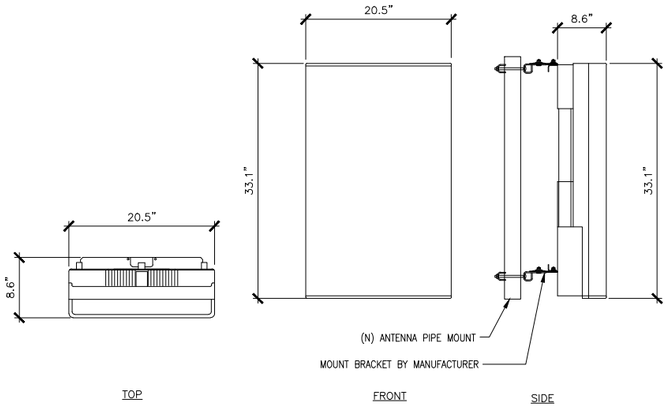
LICENSED PROFESSIONAL ENGINEER

08/22/2022

SHEET NUMBER: C-4

REVISION: 0

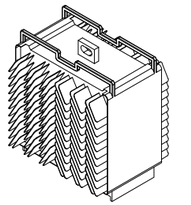
MANUFACTURER: ERICSSON
MODEL: AIR6449 B41
WEIGHT: 104 LBS (W/ MOUNT BRACKET 113)
DIMENSIONS: 33.1"H. X 20.5"W. X 8.6"D.
FREQUENCY: REFER TO RF DATA SHEET

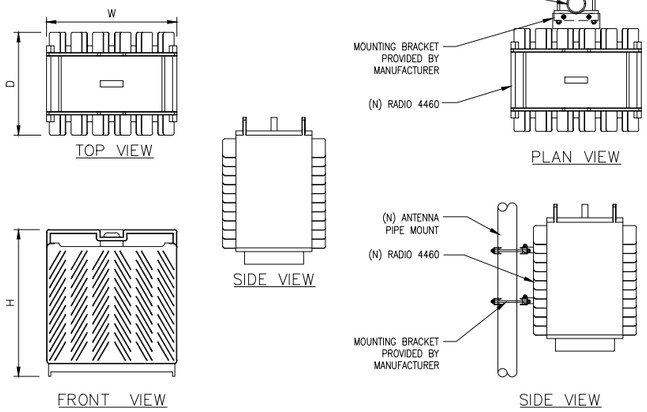


1 (N) AIR6419 B41 ANTENNA SPEC
SCALE: NOT TO SCALE

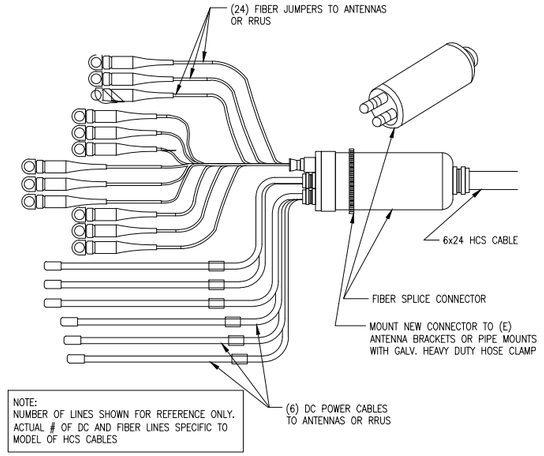
ERICSSON RADIO-4460 B25 B66

DIMENSIONS, WxDxH:	17.0"x15.1"x11.9"
MAX OUTPUT POWER:	4x80W (2x(2x80W))
TOTAL WEIGHT:	109 lbs
TEMPERATURE:	-40° TO 55° C





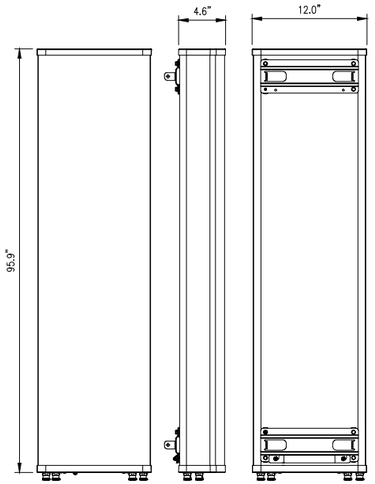
2 (N) RADIO 4460 SPEC
SCALE: NOT TO SCALE



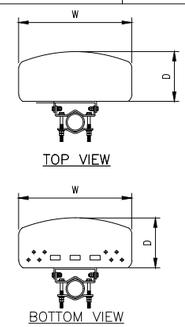
3 (N) 6X24 HCS CABLE DETAIL
SCALE: NOT TO SCALE

4 NOT USED
SCALE: NOT TO SCALE

5 NOT USED
SCALE: NOT TO SCALE



COMMSCOPE ANTENNAS	
MODEL	WEIGHT (lb)
VV-65A-R1	33.3
WEIGHT W/ MOUNTING BRACKET (lb):	-



6 (N) COMMSCOPE - VV-65A-R1 ANTENNA SPEC
SCALE: NOT TO SCALE

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T-MOBILE SITE NUMBER:
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BU #: **806369**
HRT 094 943225

439-455 HOMESTEAD AVE
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EXISTING 140'-0" MONOPOLE

ISSUED FOR:

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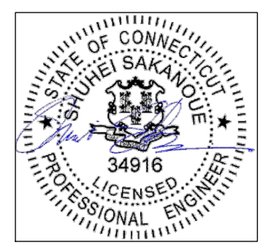
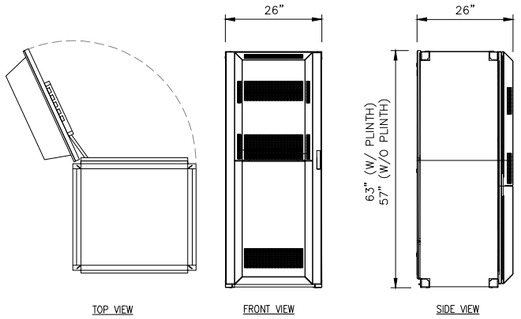
0	08/22/2022	RCD	100% FINALS	SS



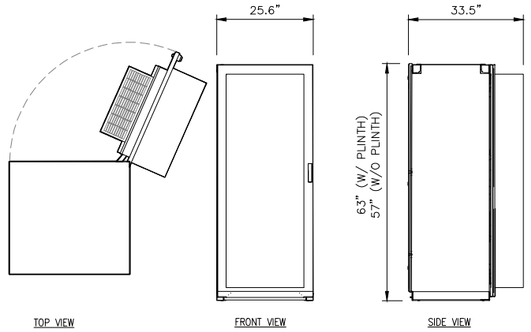
08/22/2022

SHEET NUMBER: C-5
REVISION: 0



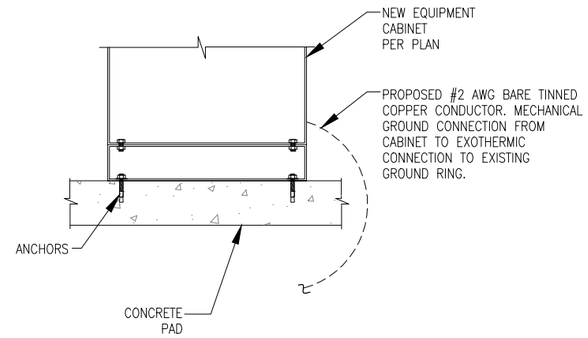
ERICSSON MODEL NO.:	B160
RACK SPACE:	19U
DIMENSIONS, HxWxD:	63"x26"x26" (W/ 6" PLINTH)
CABINET WEIGHT, EMPTY:	485 LBS
MAXIMUM WEIGHT:	2100± LBS

1 (N) B160 CABINET DETAIL
SCALE: NOT TO SCALE

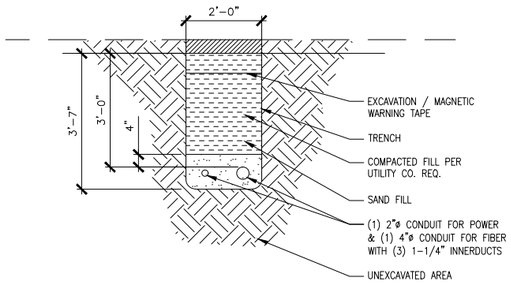


ERICSSON MODEL NO.:	6160
RACK SPACE:	19U
DIMENSIONS, HxWxD:	63"x25.6"x25.6" (W/ 6" PLINTH)
CABINET WEIGHT, EMPTY:	410 LBS
MAXIMUM WEIGHT:	770± LBS

2 (N) 6160 CABINET DETAIL
SCALE: NOT TO SCALE



3 (N) EQUIPMENT CABINET MOUNTING DETAIL
SCALE: NOT TO SCALE



4 (N) CONDUIT TRENCH DETAIL
SCALE: NOT TO SCALE

5 NOT USED
SCALE: NOT TO SCALE

6 NOT USED
SCALE: NOT TO SCALE

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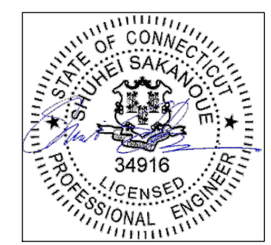


08/22/2022

SHEET NUMBER: C-6

REVISION: 0

T-MOBILE PANEL SCHEDULE

MAIN: 200A MAIN BREAKER			**VOTAGE/PHASE:** 120/240V, 1-PHASE, 3-WIRE						**SHORT CIRCUIT CURRENT RATING:** --		
MOUNTING: INSIDE PPC ENCLOSURE			**ENCLOSURE:** NEMA 3R						**SURGE PROTECTION DEVICE:** YES		
DESCRIPTION	**LOAD (VA)**	**C or NC**	**C/B**	**CIR No.**	**SE LOADS (VA)**		**CIR No.**	**C/B**	**C or NC**	**LOAD (VA)**	**DESCRIPTION**
					A	**B**					
SPARE		NC	50	1			15	100	NC		GEN PLUG
				2			17				
6160	**3500**	**C**	**150**	3	**7000**		18	125	NC	3500	6131
	3500			4		**7000**	19			3500	
6160 GFI	**180**	**NC**	**20**	5	**180**		20	20	NC	180	GFCI
				6			21	20	NC	200	LIGHT
				7			22				
				8			23				
SPARE		NC	50	9			24				
				10			25				
				11			26				
				12			27				
				13			28				
				14			29				
				15			30				
BASE LOAD (VA) =					7180	7000					
25% OF CONTINUOUS LOAD (VA) =					1795	1750					
TOTAL LOAD (VA) =					8975	8750					
TOTAL LOAD (A) =					75	73					

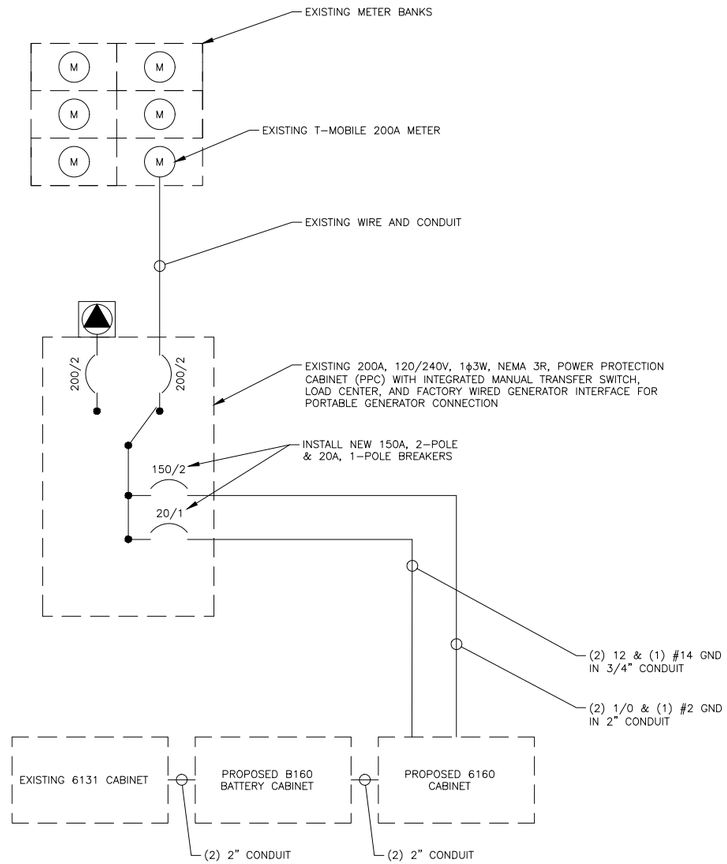
C = CONTINUOUS LOAD; NC = NON-CONTINUOUS LOAD

NEW BREAKER TO BE SAME TYPE AND HAVE SAME AIC RATING AS EXISTING. CUSTOMER HAS NOT PROVIDED LOADS FOR EQUIPMENT CABINETS THEREFORE THE CABINET LOADS SHOWN ARE ESTIMATED VALUES.

1 AC PANEL SCHEDULE
SCALE: NOT TO SCALE

NOTES:

1. ALL NEW CONDUCTORS TO BE INSTALLED SHALL BE COPPER. ALL CONDUCTORS SHALL BE THHW, THWN, THWN-2, XHHW, OR XHHW-2 UNLESS NOTED OTHERWISE.
2. CONTRACTOR IS TO FIELD VERIFY ALL EXISTING ITEMS SHOWN ON THE ELECTRICAL ONE-LINE DIAGRAM AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
3. ALL GROUNDING AND BONDING PER THE NEC.



2 ONE LINE DIAGRAM
SCALE: NOT TO SCALE

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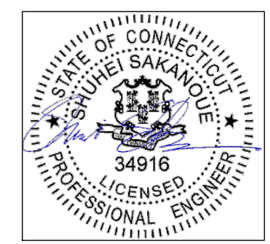
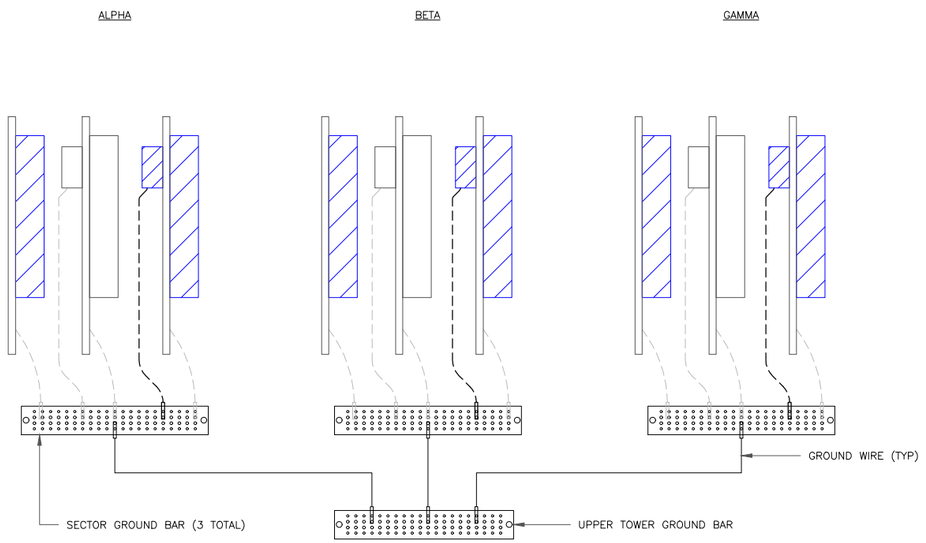


08/22/2022

SHEET NUMBER: E-1

REVISION: 0



NOTE:

ALL NEW GROUNDS TO BE #6 STRANDED COPPER WITH GREEN INSULATION UNLESS NOTED OTHERWISE.

1 ANTENNA GROUNDING DIAGRAM
SCALE: NOT TO SCALE

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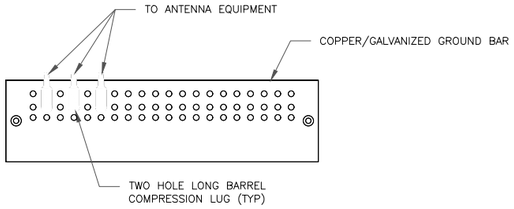
SHUHEI SAKANOUE
34916
LICENSED
PROFESSIONAL ENGINEER

08/22/2022

SHEET NUMBER: G-1

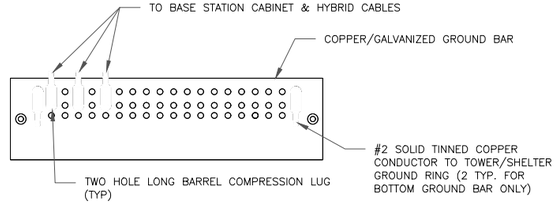
REVISION: 0



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.

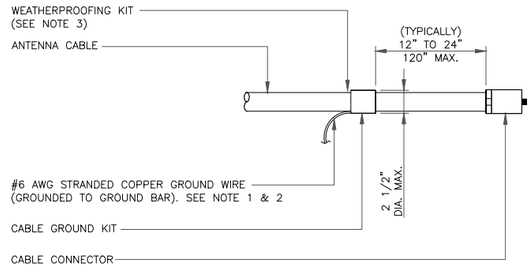
1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE



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.

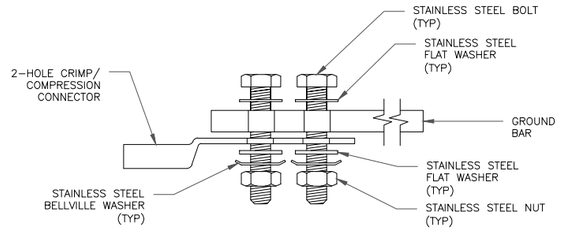
2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE



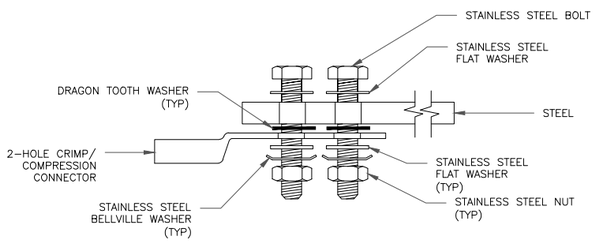
NOTES:

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.

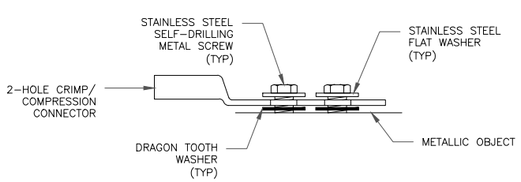
3 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS



SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

4 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE

5 NOT USED
SCALE: NOT TO SCALE

6 NOT USED
SCALE: NOT TO SCALE

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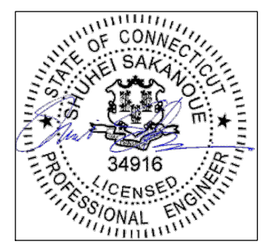

08/22/2022

SHEET NUMBER: G-2

REVISION: 0