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

June 27, 2022

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

RE: **Notice of Exempt Modification for T-Mobile: CT11127A**
Crown Site ID#806358
1432 Old Waterbury Road, Southbury, CT 06488
Latitude: 41° 29′ 36.92″ / Longitude: -73° 9′ 54.98″

Dear Ms. Bachman:

T-Mobile currently maintains six (6) antennas at the 207-foot mount on the existing 226-foot monopole tower located at 1432 Old Waterbury Road, Southbury, CT. The property and tower are owned by Crown Castle. T-Mobile now intends to add three (3) new antennas, replace six (6) antennas and ancillary equipment at the 207ft level. This modification/proposal includes hardware that is both 4G (LTE) and 5G capable through remote software configuration and either or both services may be turned on or off at various times.

Panned Modification:

Tower:

Installed New:
(3) RFS APXVAALL24_43_U-NA20 Antennas
(3) Ericsson AIR449 B41 Antennas
(3) Commscope - W-65-R1 Antennas
(3) Ericsson-Radio 4480 B71+ B85 RRU
(3) Ericsson-Radio 4460 B25+ B66 RRU
(1) Hybrid Cable (1-3/8")
(1) Platform Mount Modification

Remove:
(3) Commscope-LNX-6515DS-A1M Antennas
(3) RFS APXV18_206516S-C-A20 Antennas
(3) Commscope ATSBT-TOP-MF-4G Bias T's
(3) Ericsson KRY 112 489/2 TMAs

Ground:

Install New:
(1) B160 Battery Cabinet
(2) PSU 4813 Voltage Booster
(1.) 6160 Cabinet
(1.) IXRe Router

(2.) BB 6648

Remove:
(12) Cabinet Radios

The facility was approved by the Connecticut Siting Council in Docket No. 88 on March 13, 1988. The approval was given with Conditions which this exempt modification follows.

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 Jeff Manville, First Selectman, Town of Southbury, Taianna Kern, Land Use Inspector/Enforcement Officer, Town of Southbury. Crown Castle is both the tower and land 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:

Jeff Manville, First Selectman
Town of Southbury
501 Main Street South
Southbury, CT 06488
(203) 262-0647

Taianna Kern, Land Use Inspector/Enforcement Officer
Town of Southbury Zoning Dept
501 Main Street South, 3rd Floor
Southbury, CT 06488
(203) 262-0665

Crown Castle – Property & Tower Owner

DOCKET NO. 88 - AN APPLICATION OF METRO MOBILE CTS OF NEW HAVEN, INC., FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED FOR CELLULAR TELEPHONE ANTENNAS AND ASSOCIATED EQUIPMENT IN THE TOWN OF SOUTHBURY, CONNECTICUT	:	CONNECTICUT SITING COUNCIL
	:	MARCH 3, 1988

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

Pursuant to the forgoing opinion, the Connecticut Siting Council hereby 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 New Haven, Inc. for the construction, operation, and maintenance of a cellular telephone tower site and associated equipment at the "M/A-Southbury" alternative site on Old Waterbury Road in the Town of Southbury, Connecticut. The "M-Southbury" site on Luther Drive is hereby denied.

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

1. The monopole tower at the Southbury site shall be no taller than necessary to provide the proposed service, and in no event shall exceed a total height of 243 feet, including antennas and associated equipment, or violate the air space of Oxford Airport as determined by the Federal Aviation Administration (FAA).
2. The facility shall be constructed in accordance with all applicable federal, state, and municipal laws and regulations.
3. Unless necessary to comply with condition number 2, above, no lights shall be installed on this tower.

4. The Certificate Holder shall prepare a development and management (D&M) plan for the Southbury site in compliance with sections 16-50j-75 through 16-50j-77 of the Regulations of State Agencies. The D&M plan shall provide for permanent evergreen screening around the outside perimeter of the eight-foot chain link fence which will surround the site. The D&M shall also document the final height of the tower as approved by the FAA.

5. The Certificate Holder or its successor shall notify the Council if and when directional antennas or any equipment other than that listed in this application is added to this facility.

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

7. If this facility does not provide or permanently ceases to provide cellular service following 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 for any new use shall be made to the Council before any such new use is made.

8. The Certificate Holder shall comply with any future radio frequency (RF) standards 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.

9. Unless otherwise approved by the Council, this Decision and Order shall be void if all construction authorized herein is not completed within three years of the issuance of this Decision and Order, or within three years of the completion of any appeal taken in this Decision and Order.

Pursuant to CGS Section 16-50p, we hereby direct that a copy of this Decision and Order be served on each person listed below. A notice of the issuance shall be published in the Waterbury Republican and Newtown Bee.

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:

Metro Mobile CTS of New Haven, Inc. (applicant)
50 Rockland Road
South Norwalk, CT 06854

Mr. Howard L. Slater, Esq. (its representative)
Ms. Jennifer Young Gaudet
Byrne, Slater, Sandler,
Shulman & Rouse, P.C.
330 Main Street
P.O. Box 3216
Hartford, CT 06103

Fleishman and Walsh, P.C. (party)
1725 N Street, N.W.
Washington, D.C. 20036

SNET Cellular, Inc. (intervenor)
Peter J. Tyrrell, Esq.
227 Church Street
New Haven, CT 06506

Dennis Roberts (intervenor)
Martha J. Roberts
306 Luther Drive
Southbury, CT 06488

Carol A. Herskowitz (intervenor)
First Selectman
Town of Southbury
Town Hall
501 Main Street South
Southbury, CT 06488

Duncan M. Graham (party)
Executive Director
Council of Governments
Of The Central Naugatuck Valley
20 East Main Street
Waterbury, CT 06702

1033E

CERTIFICATION

The undersigned members of the Connecticut Siting Council hereby certify that they have heard this case in Docket 88 or read the record thereof, and that we voted as follows:

Dated at New Britain, Connecticut the 3rd day of March, 1988.

Council Members	Vote Cast
Gloria Dibble Pond Chairperson	Yes
Commissioner Peter Boucher Designee: Roland Miller	Yes
Commissioner Leslie Carothers Designee: Brian Emerick	Yes
Owen L. Clark	Absent
Fred J. Doocy	Yes
Mortimer A. Gelston	Yes
James G. Horsfall	Yes
William H. Smith	Yes
Colin C. Tait	Absent

1060E-2

1432 OLD WATERBURY ROAD

Location	1432 OLD WATERBURY ROAD	**Mblu**	46/ 8/ 10A/ /
Acct#	00537702	**Owner**	CROWN ATLANTIC CO LLC
Assessment	$83,230	**Appraisal**	$118,900
PID	6366	**Building Count**	1

Current Value

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2017	$38,900	$80,000	$118,900

Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2017	$27,230	$56,000	$83,230

Owner of Record

Owner	CROWN ATLANTIC CO LLC
Co-Owner	4017 WASHINGTON RD
Address	P M BOX 353 MCMURRAY, PA 15317

Sale Price	$220,000
Certificate	
Book & Page	0484/0720
Sale Date	04/11/2005
Instrument	24

Ownership History

Ownership History					
Owner	**Sale Price**	**Certificate**	**Book & Page**	**Instrument**	**Sale Date**
CROWN ATLANTIC CO LLC	$220,000		0484/0720	24	04/11/2005
VOLPE BUILDERS INC	$0		0297/1245	25	06/28/1995
C/O NEXTEL DBA SMART OF NY	$0		0000/0000	25	

Building Information

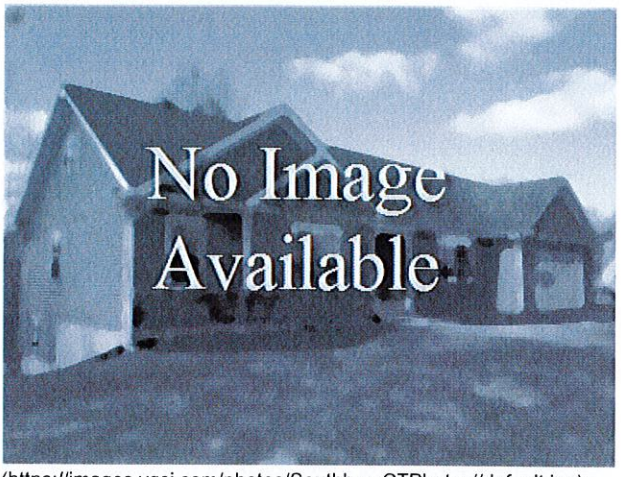
Building 1 : Section 1

Year Built:
Living Area: 0
Replacement Cost: $0
Building Percent Good:

Replacement Cost
Less Depreciation: $0

Building Attributes	
Field	**Description**
Style	Outbuildings
Model	
Grade:	
Stories	
Occupancy	
Exterior Wall 1	
Exterior Wall 2	
Roof Structure	
Roof Cover	
Interior Wall 1	
Interior Wall 2	
Interior Flr 1	
Interior Flr 2	
Heat Fuel	
Heat Type:	
AC Percent	
Total Bedrooms:	
Full Bthrms:	
Half Baths:	
Extra Fixtures	
Total Rooms:	
Bath Style:	
Kitchen Style:	
Num Kitchens	
Pln FPL:	
Det FPL:	
Gas Fireplace(s)	
% Attic Fin	
LF Dormer	
Foundation	
Bsmt Gar(s)	
Bsmt %	
SF FBM	
SF Rec Rm	
Fin Bsmt Qual	
Bsmt Access	
Fndtn Cndtn	

Building Photo



(https://images.vgsi.com/photos/SouthburyCTPhotos//default.jpg)

Building Layout

Building Layout
(https://images.vgsi.com/photos/SouthburyCTPhotos//Sketches/6366_636

Building Sub-Areas (sq ft)	Legend
No Data for Building Sub-Areas	

Basement	

Extra Features

Extra Features	Legend
No Data for Extra Features	

Land

Land Use

Use Code	302
Description	Industrial OB
Zone	M-2
Neighborhood	
Alt Land Appr	No
Category	

Land Line Valuation

Size (Acres)	0.00
Frontage	0
Depth	0
Assessed Value	$56,000
Appraised Value	$80,000

Outbuildings

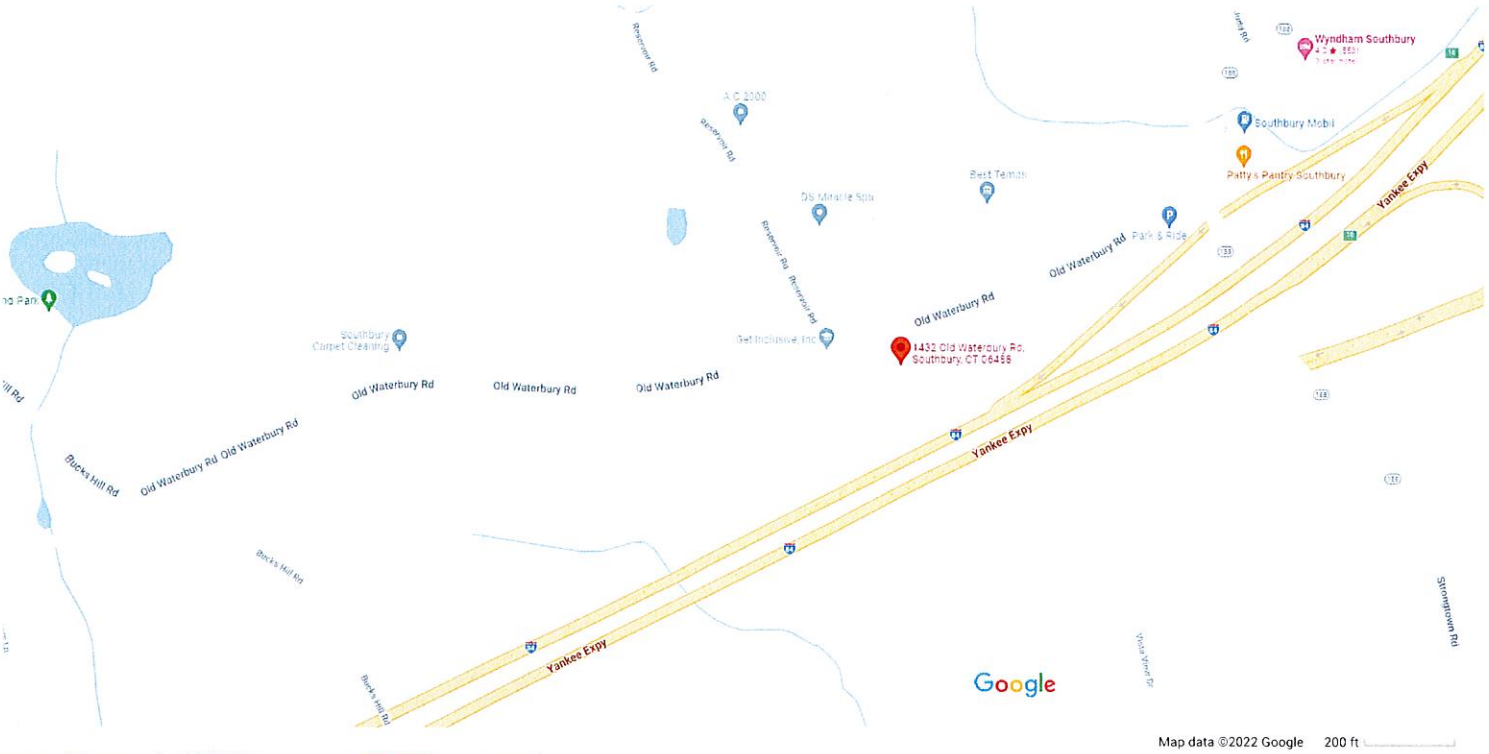
Outbuildings						Legend
Code	**Description**	**Sub Code**	**Sub Description**	**Size**	**Value**	**Bldg #**
SHD1	Shed Cell	CEL	Cell	360.00 S.F.	$14,400	1
FN3	Fence-6' Chain			400.00 L.F.	$1,800	1
SHD1	Shed Cell	CEL	Cell	180.00 S.F.	$7,200	1
SHD1	Shed Cell	CEL	Cell	180.00 S.F.	$7,200	1
SHD1	Shed Cell	CEL	Cell	180.00 S.F.	$7,200	1
FN4	Fence-8' Chain			200.00 L.F.	$1,100	1

Valuation History

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2021	$38,900	$80,000	$118,900
2017	$38,900	$80,000	$118,900
2016	$14,400	$80,000	$94,400

Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2021	$27,230	$56,000	$83,230
2017	$27,230	$56,000	$83,230
2016	$10,080	$56,000	$66,080

1432 Old Waterbury Rd



1432 Old Waterbury Rd

Southbury, CT 06488
Building

Directions Save Nearby Send to phone Share

Photos

At this location

Anvil CT LLP
5.0 (6)
Steel fabricator · 1432 Old Waterbury Rd #9
Closes soon · 4PM · Opens 8AM Mon

Denis V. Dmitriyev

Barbadora, Jeff

From: TrackingUpdates@fedex.com
Sent: Tuesday, June 28, 2022 9:53 AM
To: Barbadora, Jeff
Subject: FedEx Shipment 777239233080: Your package has been delivered

Hi. Your package was delivered Tue, 06/28/2022 at 9:49am.

Delivered to 501 MAIN ST S, SOUTHBURY, CT 06488

OBTAIN PROOF OF DELIVERY

TRACKING NUMBER 777239233080

FROM	Jeff Barbadora 1800 W. Park Drive WESTBOROUGH, MA, US, 01581
TO	Town of Southbury Jeff Manville - First Selectman 501 Main Street South SOUTHBURY, CT, US, 06488
REFERENCE	799001.7680
SHIPPER REFERENCE	799001.7680
SHIP DATE	Mon 6/27/2022 05:19 PM
DELIVERED TO	Residence
PACKAGING TYPE	FedEx Envelope
ORIGIN	WESTBOROUGH, MA, US, 01581
DESTINATION	SOUTHBURY, CT, US, 06488
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	1.00 LB
SERVICE TYPE	FedEx Priority Overnight

Barbadora, Jeff

From: TrackingUpdates@fedex.com
Sent: Tuesday, June 28, 2022 9:53 AM
To: Barbadora, Jeff
Subject: FedEx Shipment 777239262683: Your package has been delivered

Hi. Your package was delivered Tue, 06/28/2022 at 9:49am.

Delivered to 501 MAIN ST S, SOUTHBURY, CT 06488

OBTAIN PROOF OF DELIVERY

TRACKING NUMBER 777239262683

FROM	Jeff Barbadora 1800 W. Park Drive WESTBOROUGH, MA, US, 01581
TO	Town of Southbury Taianna Kern, Land Use Inspector 501 Main Street South 3rd Floor SOUTHBURY, CT, US, 06488
REFERENCE	799001.7680
SHIPPER REFERENCE	799001.7680
SHIP DATE	Mon 6/27/2022 05:19 PM
DELIVERED TO	Residence
PACKAGING TYPE	FedEx Envelope
ORIGIN	WESTBOROUGH, MA, US, 01581
DESTINATION	SOUTHBURY, CT, US, 06488
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	1.00 LB
SERVICE TYPE	FedEx Priority Overnight

Date: **April 8, 2022**

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

Subject:	**Mount Analysis – Conditionally Passing Report**	
Carrier Designation:	**T-Mobile**	
	Carrier Site ID:	**CT11127A**
	Carrier Site Name:	**Middlebury/ I-84 X 16**
Crown Castle Designation:	**Crown Castle BU Number:**	**806358**
	Crown Castle Site Name:	**NHV 109 943107**
	Crown Castle JDE Job Number:	**614600**
	Crown Castle Order Number:	**524459 Rev.4**
Engineering Firm Designation:	**POD Report Designation:**	**22-125995**
Site Data:	**1432 Old Waterbury Road, Southbury, New Haven County, CT 06488** **Latitude 41° 29' 36.92" Longitude -73° 9' 54.98"**	
Structure Information:	**Tower Height & Type:**	**226 ft Monopole**
	Mount Elevation:	**207 ft**
	Mount Type:	**10.8 ft Platform with Support Rails**

POD Group is pleased to submit this "Mount Analysis – Conditionally 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:

10.8 ft Platform with Support Rails **Sufficient***

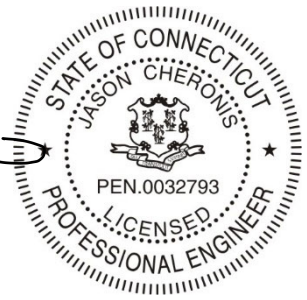
***See Section 4.1 of this report for the loading and structural modifications required in order for the mount to support the loading listed in Table 1.**

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

Mount structural analysis prepared by: Alec Perkins

Respectfully submitted by:

4/11/22



Jason Cheronis, P.E.
Connecticut PE #: PEN.0032793

TABLE OF CONTENTS

1) INTRODUCTION

This is an existing 10.8 ft Platform with Support Rails.

The proposed modifications prepared by POD Group, in June of 2020 have been considered in this analysis. Reinforcement consists of a support rail kit.

2) ANALYSIS CRITERIA

Building Code: 2015 IBC & 2018 CSBC
TIA-222 Revision: TIA-222-H
Risk Category: II
Ultimate Wind Speed: 119 mph
Exposure Category: B
Topographic Factor at Base: 1.000
Topographic Factor at Mount: 1.000
Ice Thickness: 1 in
Wind Speed with Ice: 50 mph
Seismic S_s: 0.195
Seismic S_1: 0.065
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 - Final Equipment Configuration

Mount Centerline (ft)	Antenna Centerline (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Mount / Modification Details	Note
207	207	3	ERICSSON	AIR6449 B41	10.8 ft Platform with Support Rails	-
		3	RFS/CELWAVE	APXVAALL24_43-U-NA20_ TMO		
		3	COMMSCOPE	VV-65A-R1_TMO		
		3	ERICSSON	RADIO 4460 B2/B25 B66_TMO		
		3	ERICSSON	RADIO 4480_TMOV2		

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

Document	Remarks	Reference	Source
Crown Application	-	Crown Castle App #: 524459 Rev.4 Dated: 06/09/2020	Crown Castle
Proposed Base Levels Drawings	-	Crown Castle Sheet #: A1-205 Dated: 04/01/2022	Crown Castle
RFDS	-	Crown Castle File Name: CT11127A Dated: 12/08/2021	Crown Castle
Structural Analysis	-	Crown Castle Project #: 1966319 Dated: 06/04/2021	Crown Castle
Support Rail Specification Sheet	-	SitePro1 Part #: HRK12-HD Dated: 03/31/2015	SitePro1
Previous Mount Modification Analysis	-	POD Group Project #: 20-66148 Dated: 06/30/2020	POD Group

3.1) Analysis Method

RISA-3D (Version 17.0.4), a commercially available analysis software package, was used to create a three-dimensional model of the antenna mounting system and calculate member stresses for various loading cases. 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 are included in Appendices 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.
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) Member sizes have been assumed from photos of the site and experience with similar mounting systems. If the sizes assumed in this report differ from the actual member sizes, POD Group shall be contacted immediately, and the results of the analysis shall be considered null and void.
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, Solid Round, 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 (10.8 ft Low Profile Platform)

Notes	Component	Critical Member	Centerline (ft)	% Capacity	Pass / Fail
1	Corners	CORNER1	207	60.5	Pass
	Standoffs	SO1		55.7	Pass
	Mount Pipes	MP GAMMA1		37.0	Pass
	Faces	FACE1		35.0	Pass
	Connection Angles	CONNANGLE1		34.0	Pass
	Channel Supports	SUPPORT1		26.9	Pass
	Support Rails	M RAIL1		26.7	Pass
	Rail Angles	R ANGLE1		18.8	Pass
	Ladders	LADDER1		18.5	Pass
	Rail Pipes	M PIPE1		12.2	Pass
	Rungs	RUNG1		11.1	Pass

Structure Rating (max from all components) =	**60.5%**

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 structural modifications listed below must be completed.

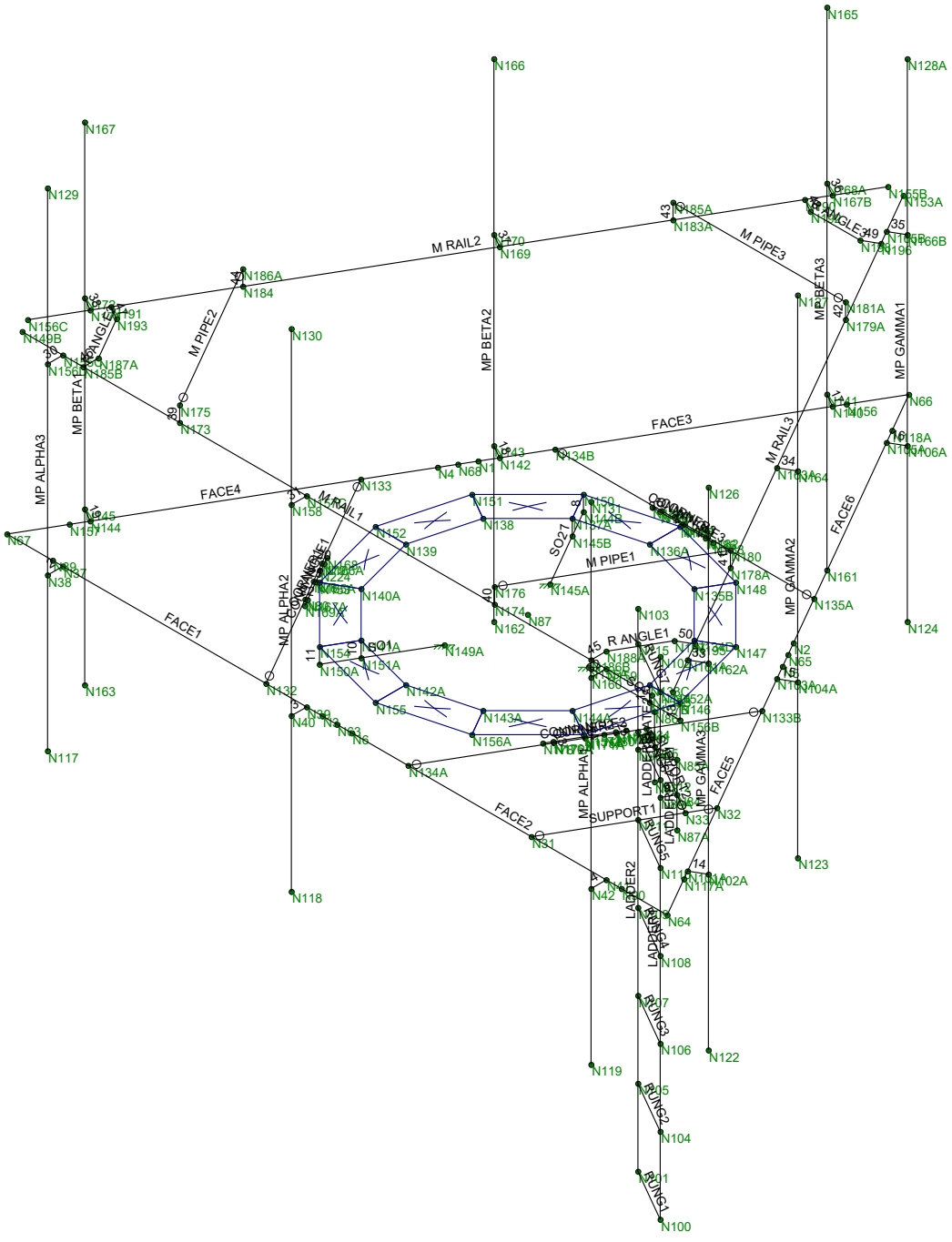
1. Reinforcement designed by POD Group (Project #: 20-66148) to be installed per the design firms’ recommendations.
2. The reinforcement consists of installation of a Support Rail Kit (SitePro1 P/N: HRK12-HD) 3’-0” above the existing face. The support rail members need to be trimmed to 10’-4”.

    - 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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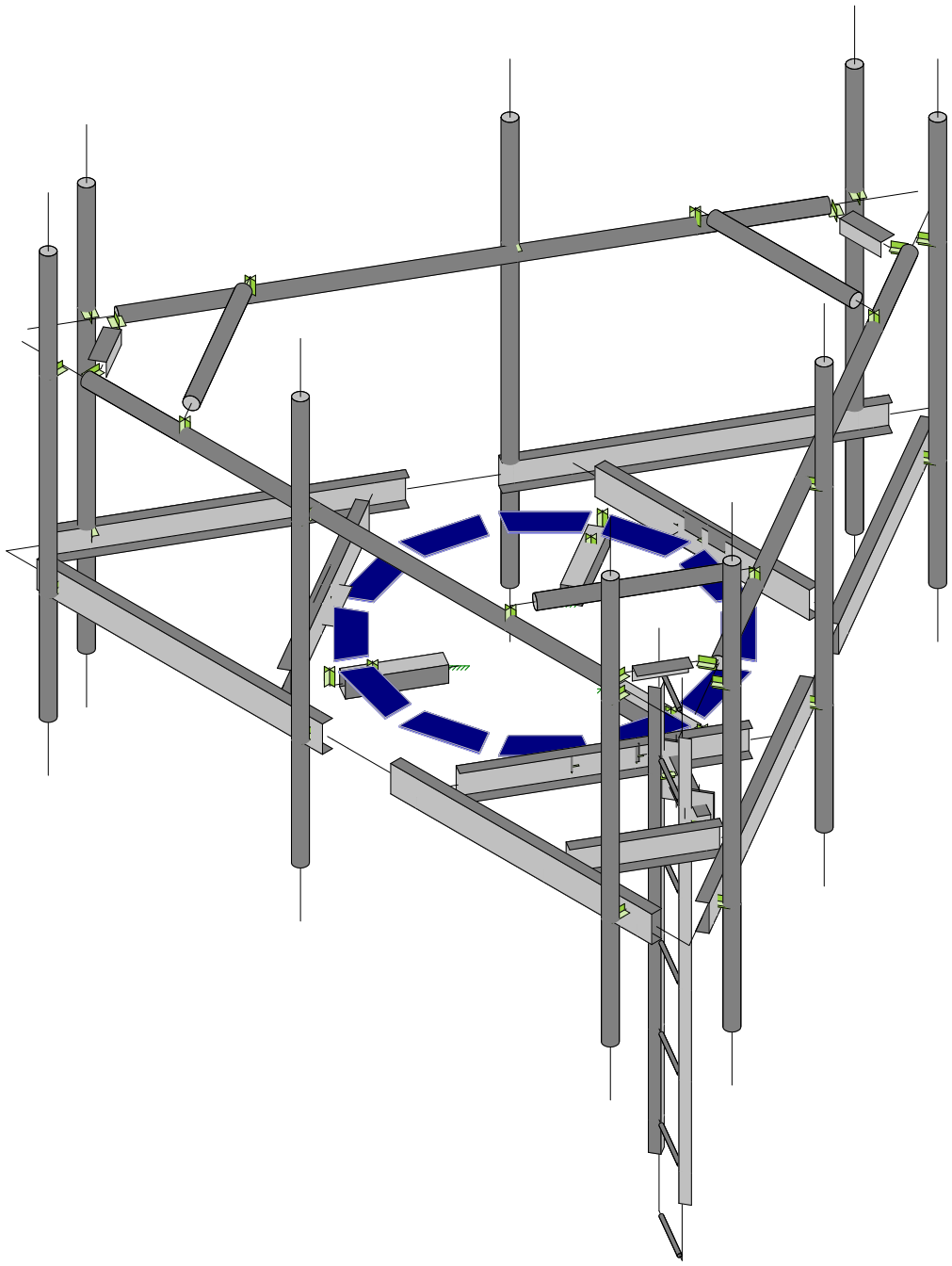

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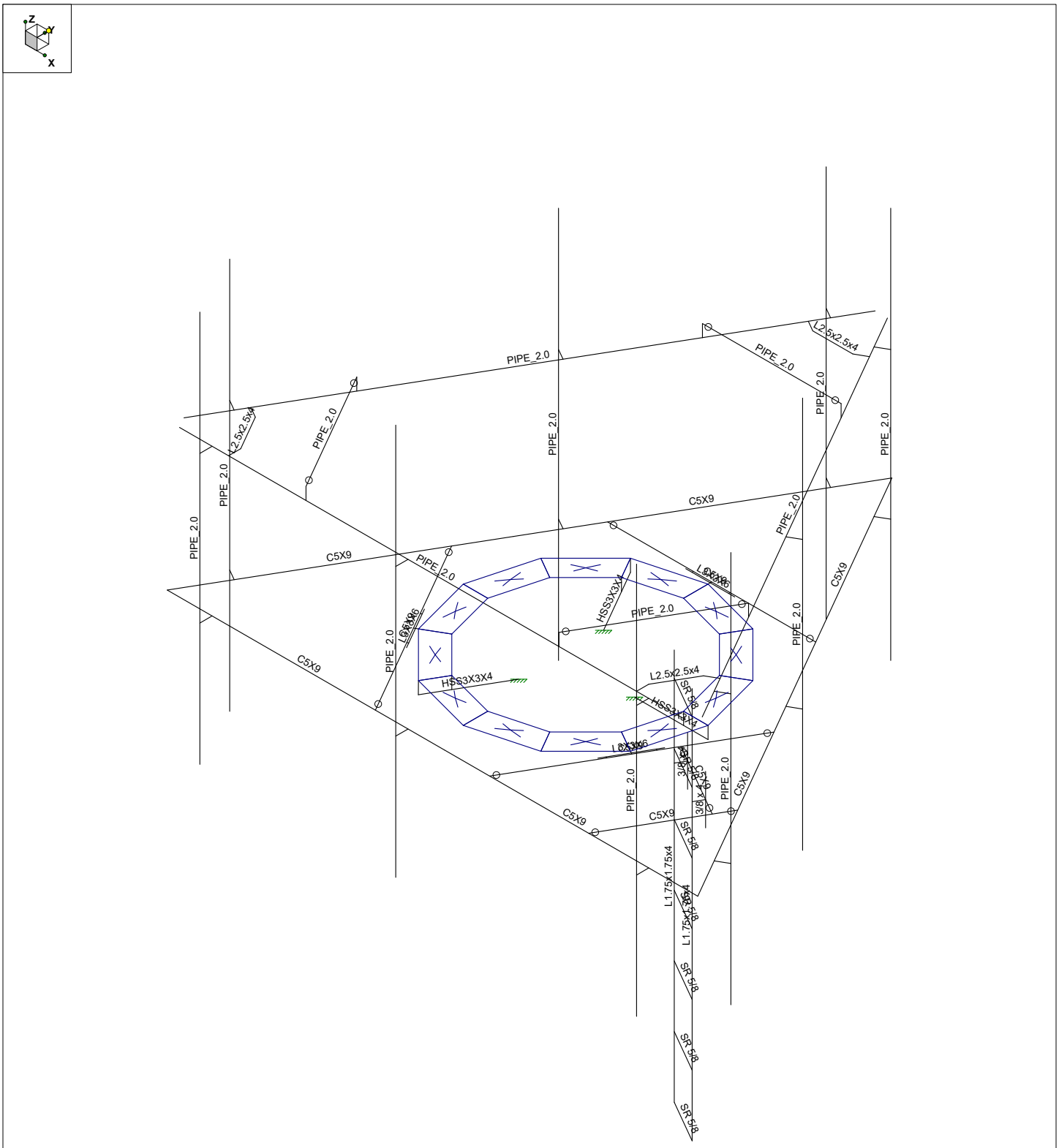

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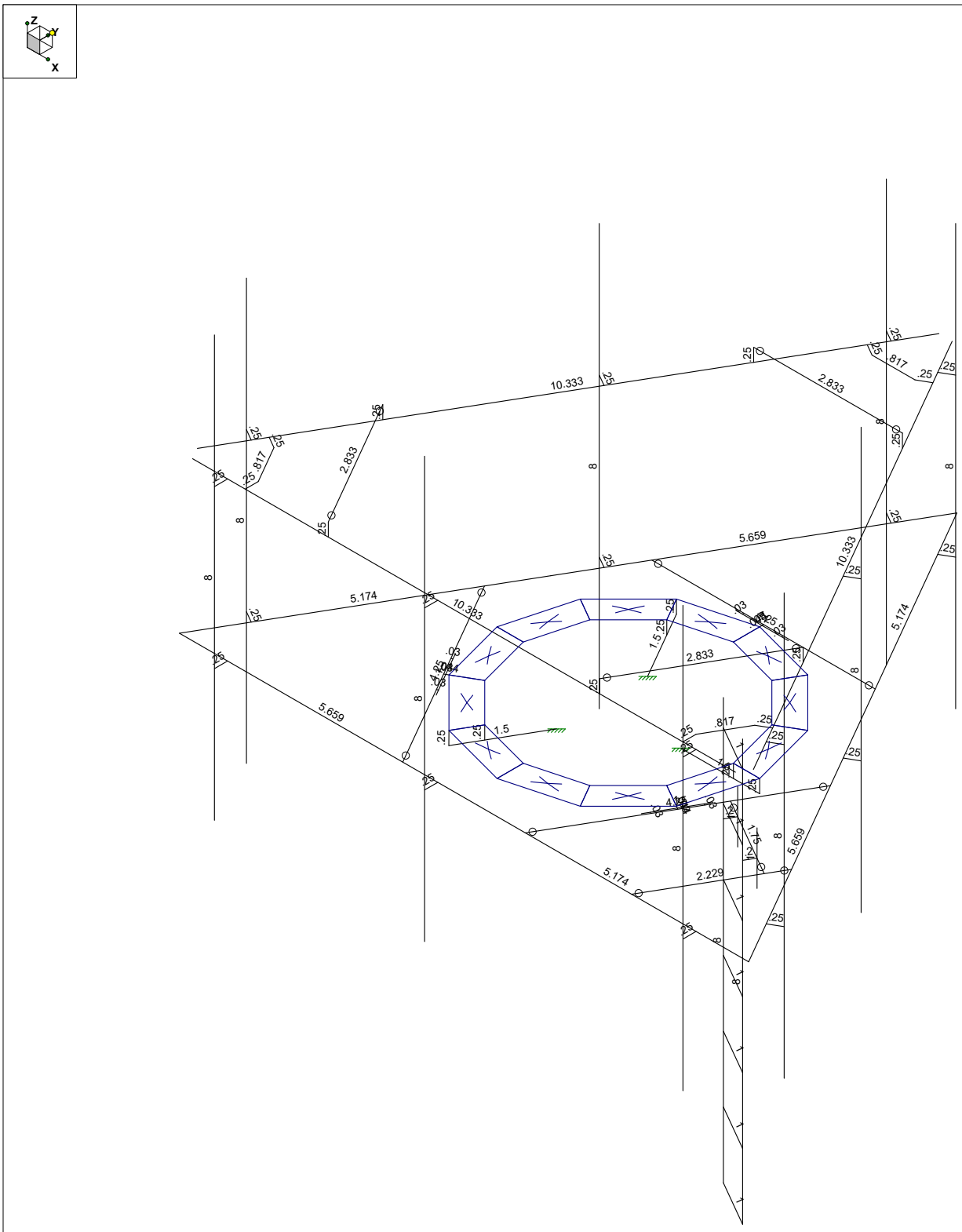

Member Length (ft) Displayed

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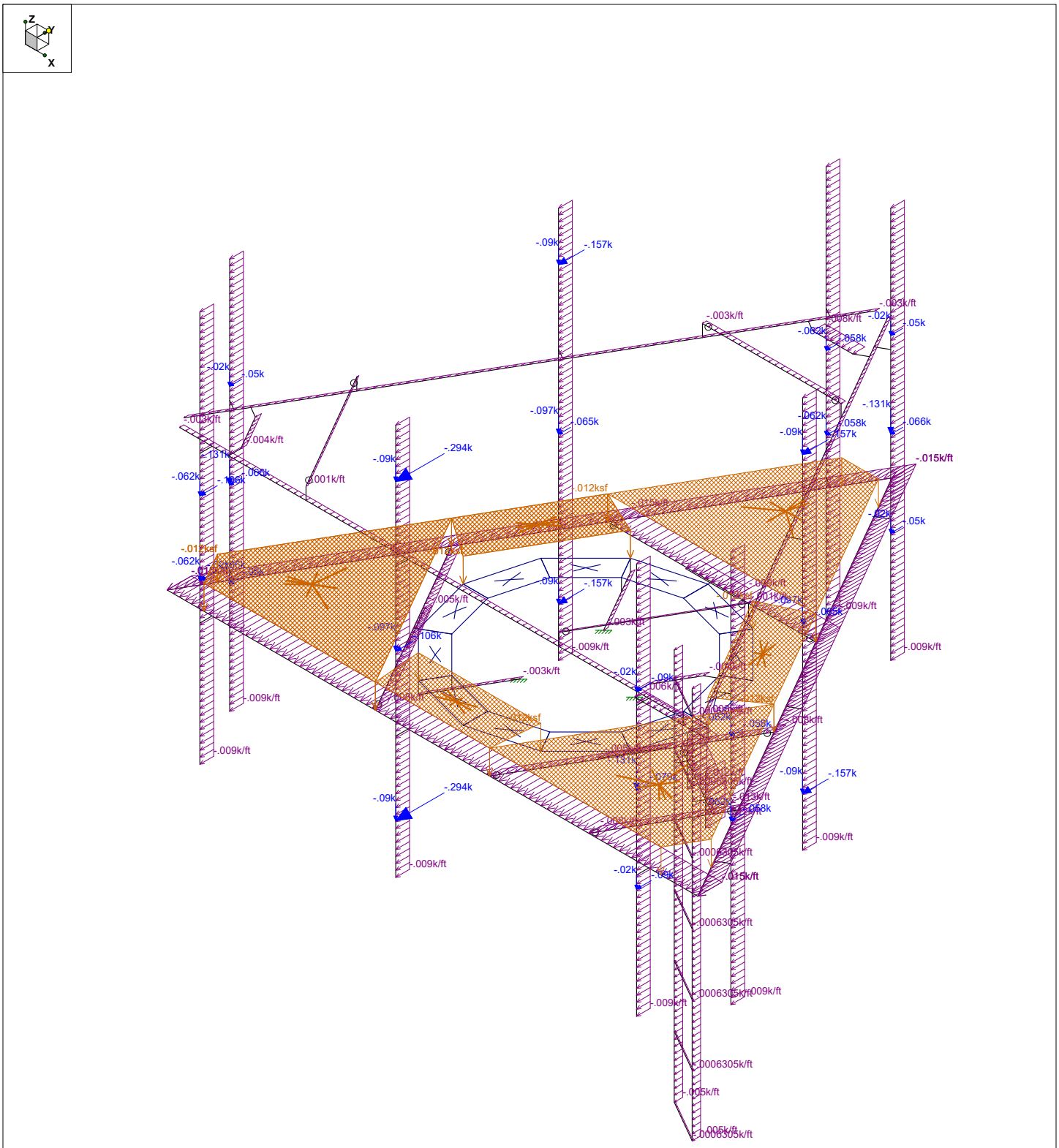
22-125995		806358.r3d



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

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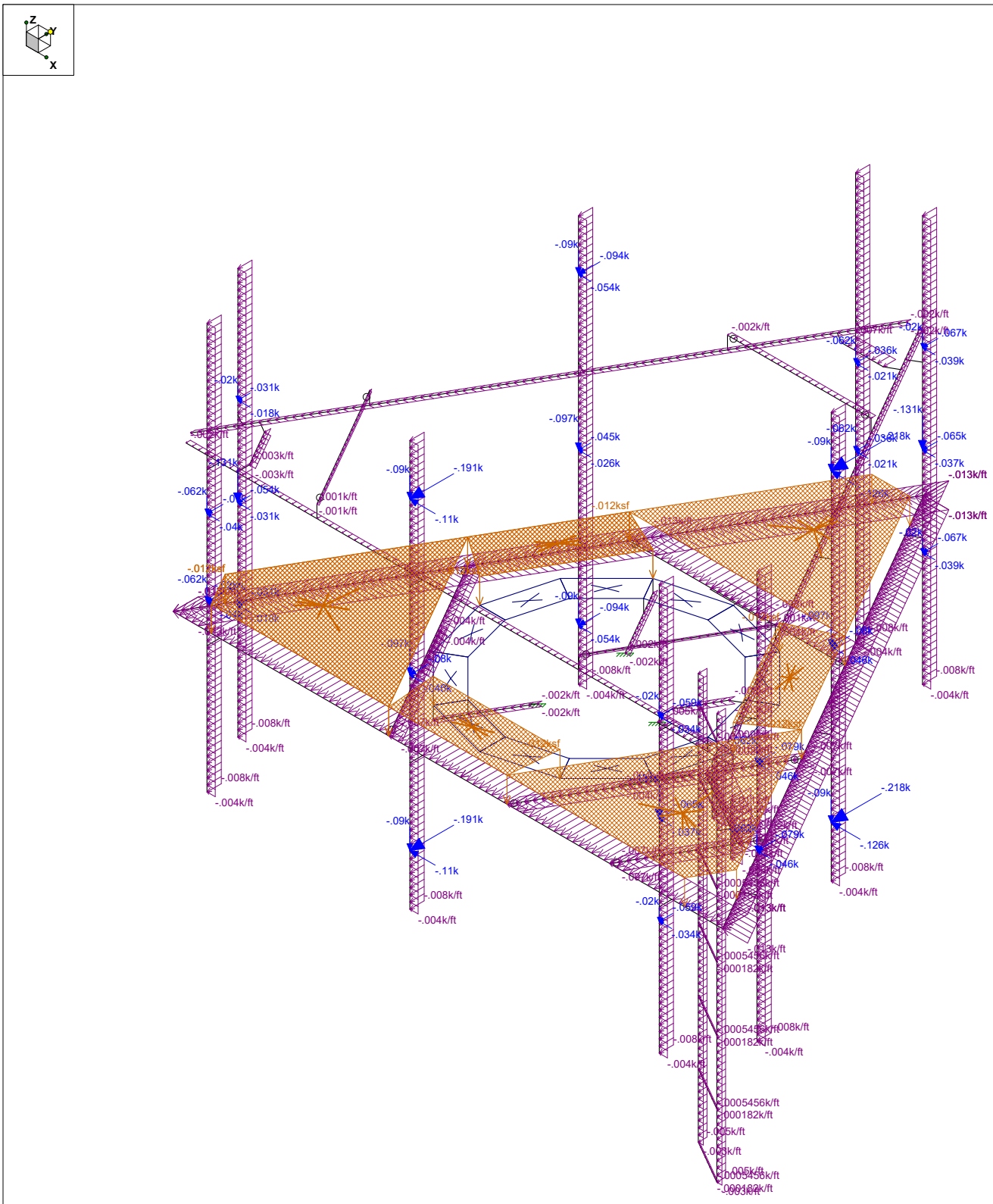
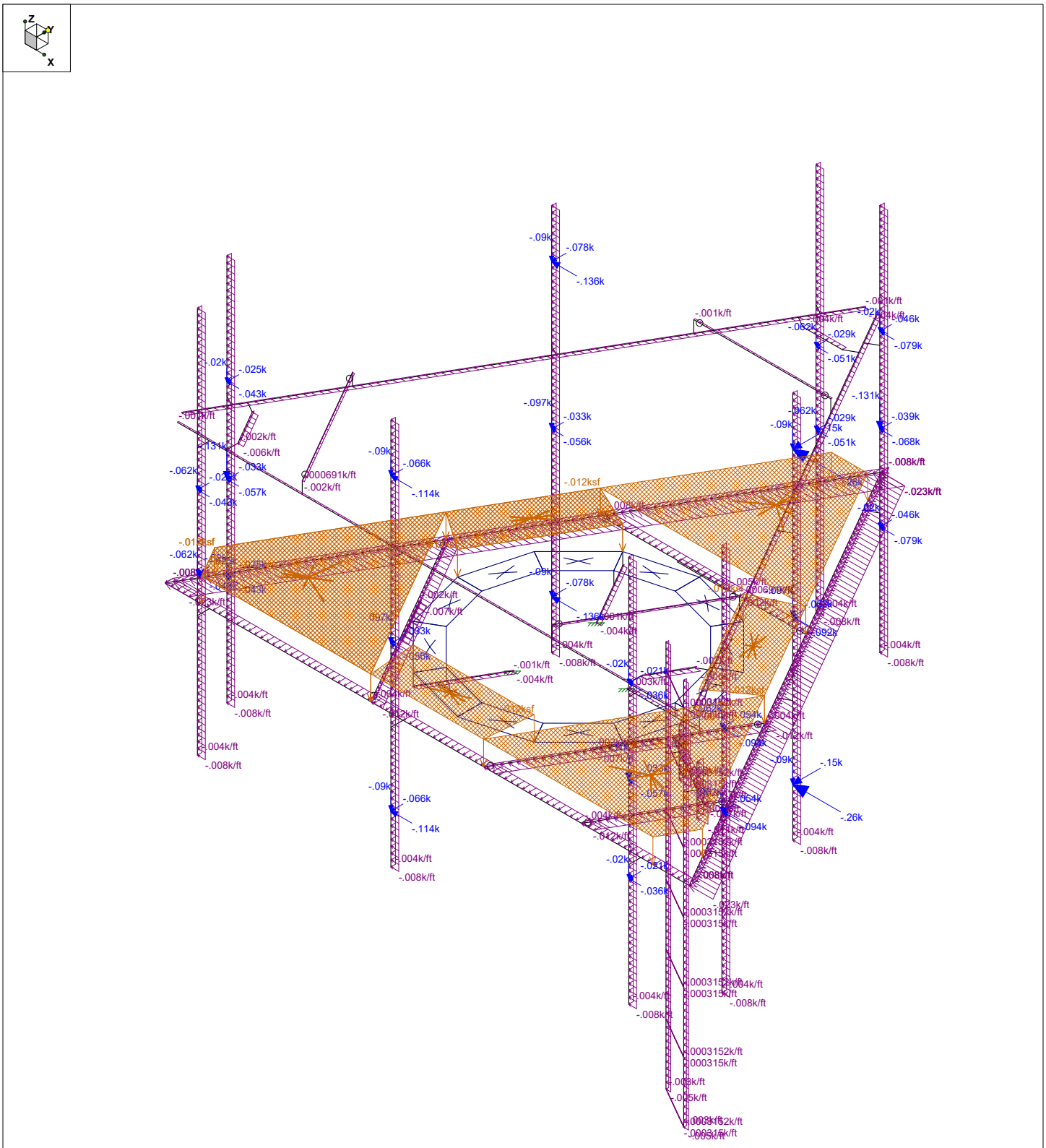


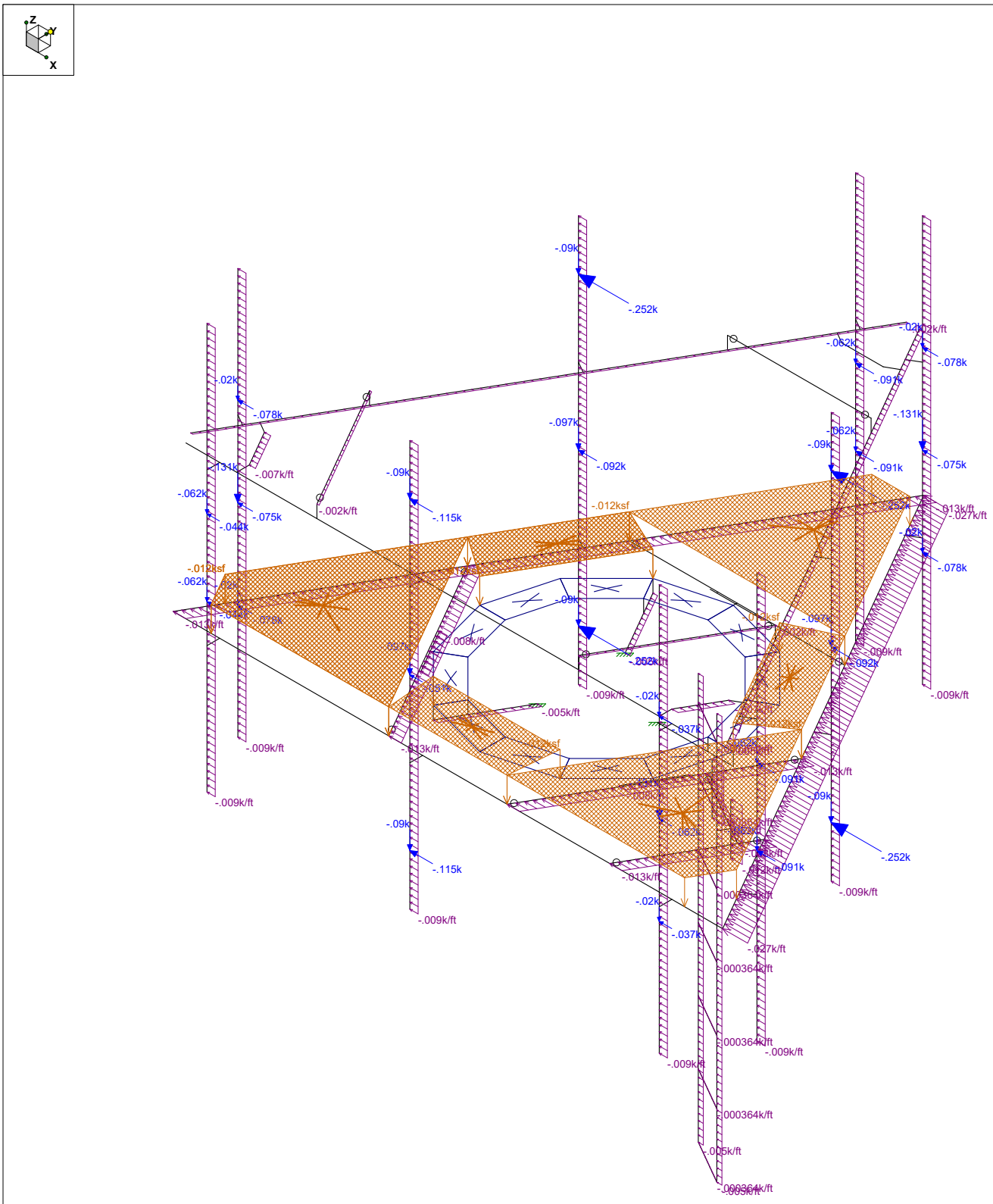
Loads: LC 5, 1.2D + 1.0W(30)

POD	806358	SK - 6
AP		Apr 8, 2022 at 6:25 PM
22-125995		806358.r3d



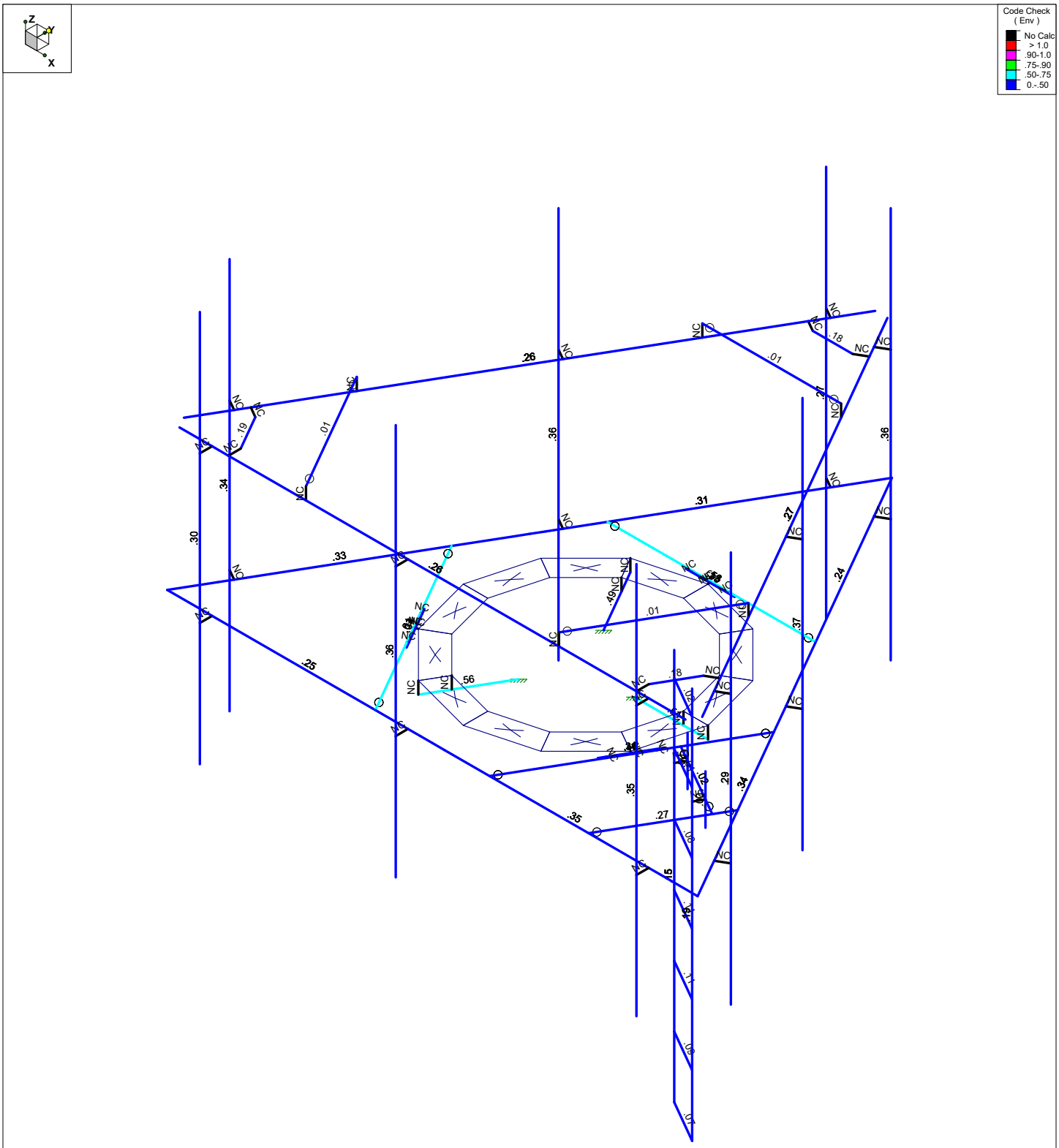
Loads: LC 8, 1.2D + 1.0W(60)

POD	806358	SK - 7
AP		Apr 8, 2022 at 6:25 PM
22-125995		806358.r3d



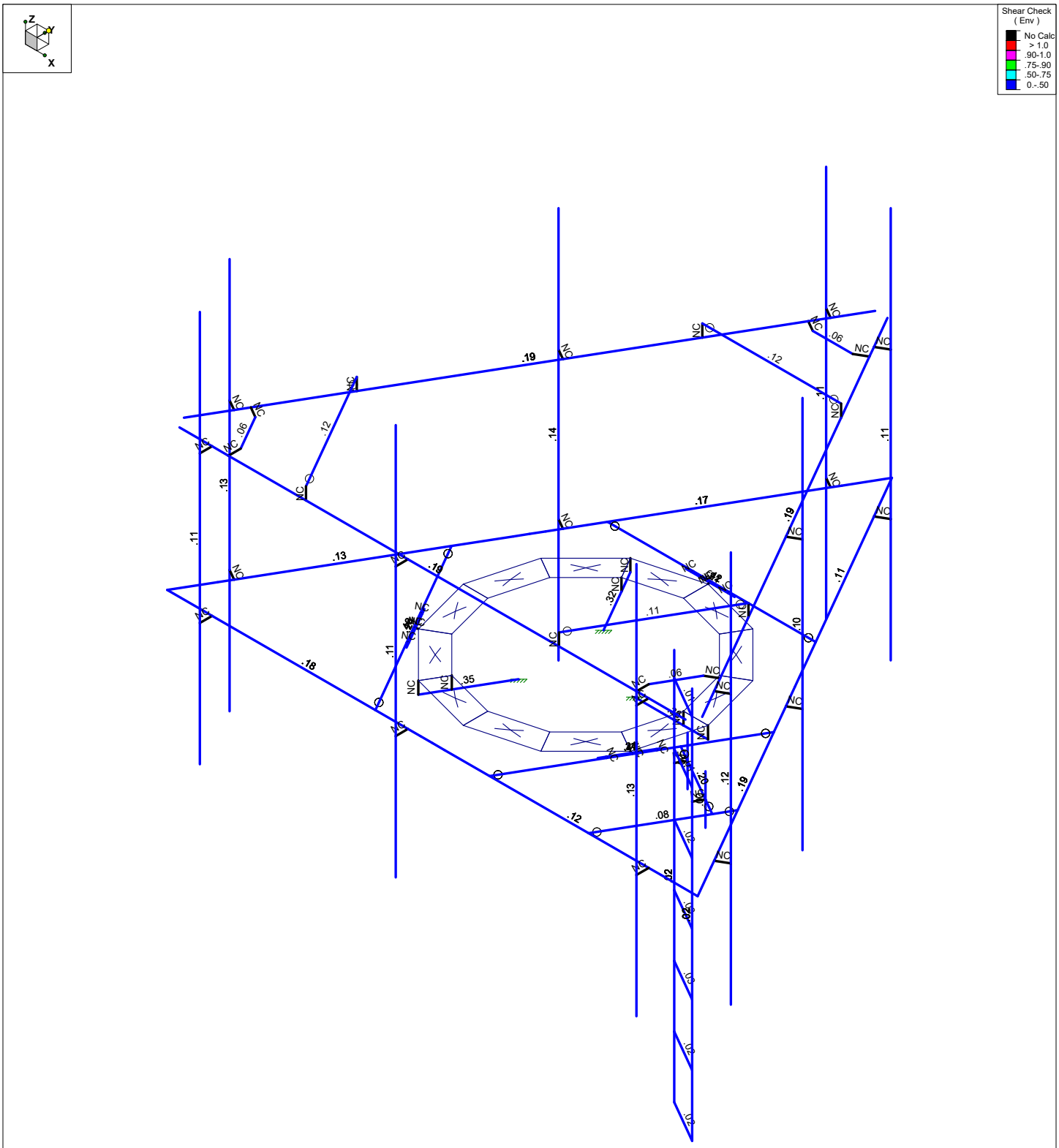
Loads: LC 11, 1.2D + 1.0W(90)

POD	806358	SK - 8
AP		Apr 8, 2022 at 6:25 PM
22-125995		806358.r3d



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

POD	806358	SK - 9
AP		Apr 8, 2022 at 6:25 PM
22-125995		806358.r3d



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

POD	806358	SK - 10
AP		Apr 8, 2022 at 6:26 PM
22-125995		806358.r3d

APPENDIX B

Software Input Calculations

POD Job #	**22-125995**
Site Number	**806358**
Site Name	**NVH 109 943107**

General Site Information

Mount Type	SFP	Risk Category	II	I (seismic)	1			Use CFD	Yes		
V (Wind Speed)	119	I(ice)	1	Sms	0.312						
Zs	666.03			Sm1	0.156					width (ft)	height (ft)
ti	1	Ss	0.195	Sds	0.208			Front Outer Dimensions		10.83	3
Vi	50	S1	0.065	Sd1	0.104						
Kzt	1	Soil Site Class	D	Seismic Design Category							
Exposure	B	Fa	1.600	B							
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	226	Cs, Min	0.03	TIA-222-H 2.7.7.1.1					
Ke	0.98			Cs	0.104	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			207	4	42	10	A	1	1
VV-65A-R1_TMO			207	4	42	0	B/C	1	1
AIR6449 B41			207	4	18	10	A	1	3
AIR6449 B41			207	4	18	0	B/C	1	3
APXVAALL24_43-U-NA20_TMO			207	4	72	10	A	1	2
APXVAALL24_43-U-NA20_TMO			207	4	72	0	B/C	1	2
RADIO 4460 B2/B25 B66_TMO			207	4	0	0	A/B/C	1	1
Radio 4480_TMOV2			207	4	0	0	A/B/C	1	2

Mount Information

Elevation (ft)	207	Grating Thickness (in)	1
K_z	1.22	Grating Ice Weight (k/ft^)	0.015
Kiz	1.20		
tiz	1.20		

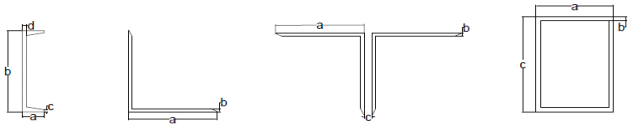
	Length (ft)	Width (in)	Centerline
Mount Pipes	8	2.375	207

Round Members

Member	Length (ft)	Width (in)	Frame Member	# of Members
Rail pipe	2.833	2.375	No	3
Rail off	10.333	2.375	No	1
Rail on	10.333	2.375	Yes	2
Rung	1	0.625	No	7

Flat Members

Member	Length (ft)	Width (in)	Shape	A	B	C	D	Frame Member	# of Members
Connection angle	1	3	Angle	3	0.375			No	3
Corner	4.25	5	Channel	1.89	5	0.32	0.325	No	3
Face off	5.174	5	Channel	1.89	5	0.32	0.325	No	2
Face on	5.174	5	Channel	1.89	5	0.32	0.325	Yes	4
Ladder	8	1.75	Angle	1.75	0.25			No	2
Ladder plate	1	4	Channel	0	4	0	0.375	No	2
Standoff	1.5	3	Square HSS	3	0.25	3		No	3
Support	2.229	5	Channel	1.89	5	0.32	0.325	No	2
Rail angle	0.817	2.5	Angle	2.5	0.25			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	1.22	40.90	4.48	1.74	0.183	0.071	0.170	0.170	0.075
VV-65A-R1_TMO	54.7	12.0	4.6	33.3	1.22	40.90	4.48	1.74	0.183	0.071	0.155	0.155	0.071
AIR6449 B41	33.1	20.6	8.6	104.0	1.22	40.90	5.28	2.05	0.216	0.084	0.200	0.200	0.088
AIR6449 B41	33.1	20.6	8.6	104.0	1.22	40.90	5.28	2.05	0.216	0.084	0.183	0.183	0.084
APXVAALL24_43-U-NA20_TI	95.9	24.0	8.5	149.9	1.22	40.90	14.67	5.32	0.600	0.218	0.555	0.555	0.229
APXVAALL24_43-U-NA20_TI	95.9	24.0	8.5	149.9	1.22	40.90	14.67	5.32	0.600	0.218	0.504	0.504	0.218
RADIO 4460 B2/B25 B66_TM	17.0	15.1	11.9	109.0	1.22	40.90	1.93	1.52	0.079	0.062	0.075	0.075	0.062
Radio 4480_TMOV2	22.0	15.7	7.5	81.0	1.22	40.90	2.59	1.26	0.106	0.051	0.092	0.092	0.051

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	1.20	57.10	14.40	7.00	88.81	1.20	7.22	5.06	2.47	0.037	0.018	0.037	0.037	0.019
VV-65A-R1_TMO	1.20	57.10	14.40	7.00	88.81	1.20	7.22	5.06	2.47	0.037	0.018	0.032	0.032	0.018
AIR6449 B41	1.20	35.50	23.00	11.00	101.18	1.20	7.22	5.70	2.58	0.041	0.019	0.041	0.041	0.020
AIR6449 B41	1.20	35.50	23.00	11.00	101.18	1.20	7.22	5.70	2.58	0.041	0.019	0.036	0.036	0.019
APXVAALL24_43-U-NA20_TI	1.20	98.30	26.40	10.90	283.10	1.20	7.22	14.88	6.27	0.107	0.045	0.106	0.106	0.048
APXVAALL24_43-U-NA20_TI	1.20	98.30	26.40	10.90	283.10	1.20	7.22	14.88	6.27	0.107	0.045	0.092	0.092	0.045
RADIO 4460 B2/B25 B66_TM	1.20	19.40	17.50	14.30	58.42	1.20	7.22	1.49	1.22	0.011	0.009	0.010	0.010	0.009
Radio 4480_TMOV2	1.20	24.40	18.10	9.90	57.83	1.20	7.22	1.94	1.06	0.014	0.008	0.012	0.012	0.008

Round Members

Member	q_z (lb/ft^2)	Wind Calculations Ar	C	Rr	Cf	EPA (ft^2)	Load (k/ft)	Ice Calculations Width (in)	Weight (k/ft)	q_z (lb/ft^2)	Arice	Rrice	Cf	EPA (ft^2)	Load (k/ft)
Rail pipe	40.90	1.68	25.32	0.63	1.20	0.38	0.003	4.78	0.01	7.22	3.38	0.74	1.20	0.90	0.001
Rail off	40.90	2.05	25.32	0.63	1.20	1.40	0.003	4.78	0.01	7.22	4.11	0.74	1.20	3.29	0.001
Rail on	40.90	4.09	25.32	0.63	1.20	1.40	0.006	4.78	0.01	7.22	8.23	0.74	1.20	3.29	0.002
Rung	40.90	0.36	6.66	0.63	1.20	0.04	0.001	3.03	0.00	7.22	1.77	0.74	1.20	0.20	0.001

Flat Members

Member	q_z (lb/ft^2)	Wind Calculations Af	Cf	EPA	Load (k/ft)	Ice Calculations Width (in)	Weight (k/ft)	q_z (lb/ft^2)	Arice	Rrice	Cf	EPA	Load (k/ft)
Connection angle	40.90	0.75	2.00	0.45	0.009	5.40	0.01	7.22	1.35	0.74	2.00	0.60	0.002
Corner	40.90	5.31	2.00	3.19	0.015	7.40	0.01	7.22	7.87	0.74	2.00	3.49	0.003
Face off	40.90	4.31	2.00	3.88	0.015	7.40	0.01	7.22	6.38	0.74	2.00	4.25	0.003
Face on	40.90	8.62	2.00	3.88	0.031	7.40	0.01	7.22	12.77	0.74	2.00	4.25	0.006
Ladder	40.90	2.33	2.00	2.10	0.005	4.15	0.01	7.22	5.54	0.74	2.00	3.69	0.002
Ladder plate	40.90	0.67	2.00	0.60	0.012	6.40	0.01	7.22	1.07	0.74	2.00	0.71	0.003
Standoff	40.90	1.13	1.25	0.42	0.006	5.40	0.01	7.22	2.03	0.74	1.25	0.56	0.001
Support	40.90	1.86	2.00	1.67	0.015	7.40	0.01	7.22	2.75	0.74	2.00	1.83	0.003
Rail angle	40.90	0.51	2.00	0.31	0.008	4.90	0.01	7.22	1.00	0.74	2.00	0.44	0.002

Appurtenance Seismic Calculations

Model	Weight	Sds	ρ	Cs	As	Ev	Eh
VV-65A-R1_TMO	33.3	0.208	1.000	0.104	1.000	0.001	0.003
VV-65A-R1_TMO	33.3	0.208	1.000	0.104	1.000	0.001	0.003
AIR6449 B41	104.0	0.208	1.000	0.104	1.000	0.004	0.011
AIR6449 B41	104.0	0.208	1.000	0.104	1.000	0.004	0.011
APXVAALL24_43-U-NA20_TI	149.9	0.208	1.000	0.104	1.000	0.006	0.016
APXVAALL24_43-U-NA20_TI	149.9	0.208	1.000	0.104	1.000	0.006	0.016
RADIO 4460 B2/B25 B66_TM	109.0	0.208	1.000	0.104	1.000	0.005	0.011
Radio 4480_TMOV2	81.0	0.208	1.000	0.104	1.000	0.003	0.008

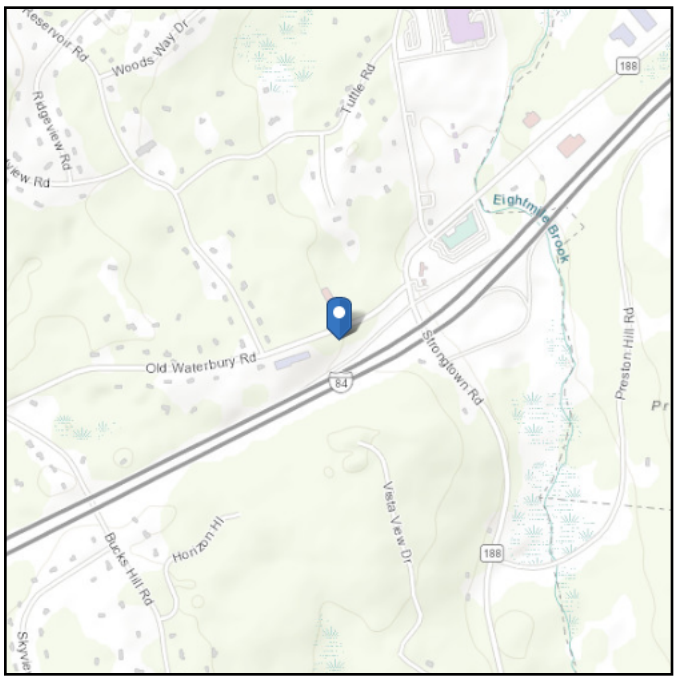
Version 3.54

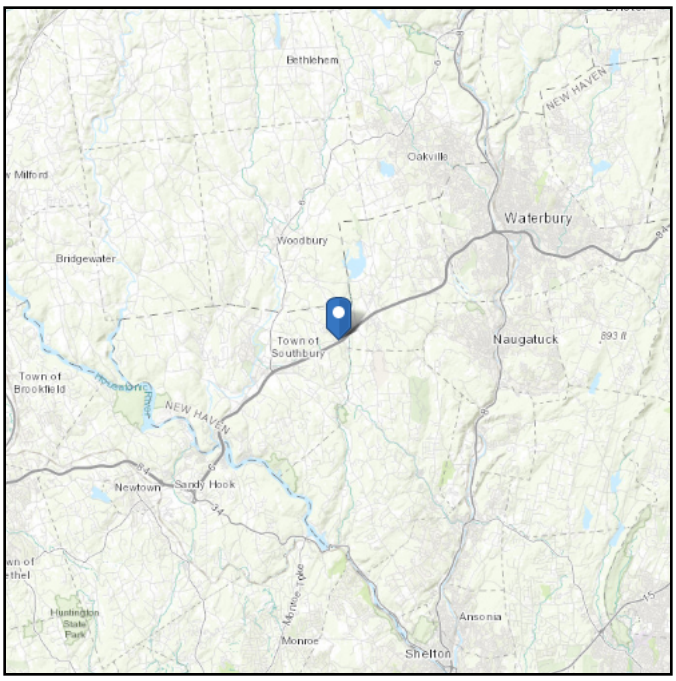
ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-10
Risk Category: II
Soil Class: D - Stiff Soil

Elevation: 666.03 ft (NAVD 88)
Latitude: 41.49359
Longitude: -73.16527





Wind

Results:

Wind Speed	119 Vmph
10-year MRI	76 Vmph
25-year MRI	86 Vmph
50-year MRI	91 Vmph
100-year MRI	98 Vmph

Data Source: ASCE/SEI 7-10, Fig. 26.5-1A and Figs. CC-1–CC-4, and Section 26.5.2, incorporating errata of March 12, 2014

Date Accessed: Fri Apr 08 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 7-10 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 7-10 Section 26.2. Glazed openings need not be protected against wind-borne debris.

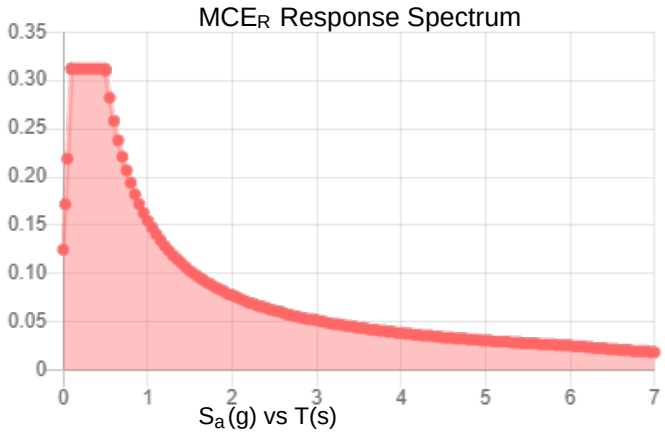
Seismic

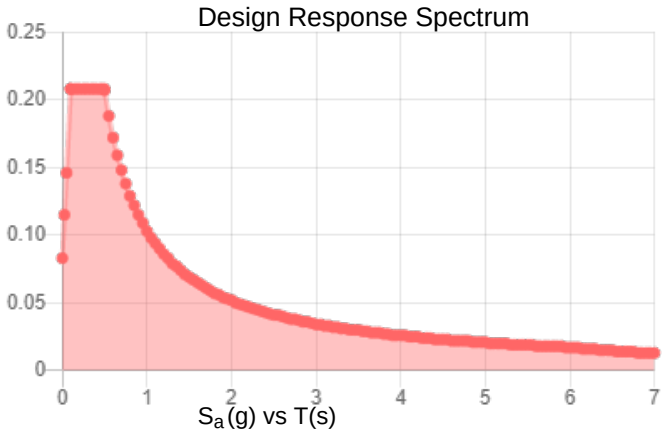
Site Soil Class: D - Stiff Soil

Results:

S_S :	0.195	S_{DS} :	0.208
S_1 :	0.065	S_{D1} :	0.103
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.102
S_{MS} :	0.312	PGA_M :	0.163
S_{M1} :	0.155	F_{PGA} :	1.595
		I_e :	1

Seismic Design Category B





Data Accessed: **Fri Apr 08 2022**

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-10, incorporating Supplement 1 and errata of March 31, 2013, and ASCE/SEI 7-10 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-10 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness:	
Concurrent Temperature:	15 F
Gust Speed	50 mph
Data Source:	Standard ASCE/SEI 7-10, Figs. 10-2 through 10-8
Date Accessed:	Fri Apr 08 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 50-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

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (\1...	Density[k/f...	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

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	CONNANGLE1	L3X3X6	1			Lbyy						Lateral
2	CONNANGLE2	L3X3X6	1			Lbyy						Lateral
3	CONNANGLE3	L3X3X6	1			Lbyy						Lateral
4	CORNER1	C5X9	4.25			Lbyy						Lateral
5	CORNER2	C5X9	4.25			Lbyy						Lateral
6	CORNER3	C5X9	4.25			Lbyy						Lateral
7	FACE1	C5X9	5.659			Lbyy						Lateral
8	FACE2	C5X9	5.174			Lbyy						Lateral
9	FACE3	C5X9	5.659			Lbyy						Lateral
10	FACE4	C5X9	5.174			Lbyy						Lateral
11	FACE5	C5X9	5.659			Lbyy						Lateral
12	FACE6	C5X9	5.174			Lbyy						Lateral
13	LADDER1	L1.75x1.75...	8			Lbyy						Lateral
14	LADDER2	L1.75x1.75...	8			Lbyy						Lateral
15	LADDERPLATE1	3/8 x 4	1			Lbyy						Lateral
16	LADDERPLATE2	3/8 x 4	1			Lbyy						Lateral
17	M PIPE1	PIPE_2.0	2.833			Lbyy						Lateral
18	M PIPE2	PIPE_2.0	2.833			Lbyy						Lateral
19	M PIPE3	PIPE_2.0	2.833			Lbyy						Lateral
20	M RAIL1	PIPE_2.0	10.333			Lbyy						Lateral
21	M RAIL2	PIPE_2.0	10.333			Lbyy						Lateral
22	M RAIL3	PIPE_2.0	10.333			Lbyy						Lateral
23	MP ALPHA1	PIPE_2.0	8			Lbyy						Lateral
24	MP ALPHA2	PIPE_2.0	8			Lbyy						Lateral
25	MP ALPHA3	PIPE_2.0	8			Lbyy						Lateral
26	MP BETA1	PIPE_2.0	8			Lbyy						Lateral
27	MP BETA2	PIPE_2.0	8			Lbyy						Lateral
28	MP BETA3	PIPE_2.0	8			Lbyy						Lateral
29	MP GAMMA1	PIPE_2.0	8			Lbyy						Lateral
30	MP GAMMA2	PIPE_2.0	8			Lbyy						Lateral
31	MP GAMMA3	PIPE_2.0	8			Lbyy						Lateral
32	R ANGLE1	L2.5x2.5x4	.817			Lbyy						Lateral
33	R ANGLE2	L2.5x2.5x4	.817			Lbyy						Lateral
34	R ANGLE3	L2.5x2.5x4	.817			Lbyy						Lateral
35	RUNG1	SR 5/8	1			Lbyy						Lateral
36	RUNG2	SR 5/8	1			Lbyy						Lateral
37	RUNG3	SR 5/8	1			Lbyy						Lateral
38	RUNG4	SR 5/8	1			Lbyy						Lateral
39	RUNG5	SR 5/8	1			Lbyy						Lateral
40	RUNG6	SR 5/8	1			Lbyy						Lateral
41	RUNG7	SR 5/8	1			Lbyy						Lateral
42	SO1	HSS3X3X4	1.5			Lbyy						Lateral
43	SO2	HSS3X3X4	1.5			Lbyy						Lateral
44	SO3	HSS3X3X4	1.5			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...
45	SUPPORT1	C5X9	2.229			Lbyy						Lateral
46	SUPPORT2	C5X9	1.75			Lbyy						Lateral

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(...	Section/Shape	Type	Design List	Material	Design R...
1	1	N149	N185			RIGID	None	None	RIGID	Typical
2	2	N37	N38			RIGID	None	None	RIGID	Typical
3	3	N39	N40			RIGID	None	None	RIGID	Typical
4	4	N41	N42			RIGID	None	None	RIGID	Typical
5	5	N165A	N153			RIGID	None	None	RIGID	Typical
6	6	N157A	N175A			RIGID	None	None	RIGID	Typical
7	7	N145B	N137A			RIGID	None	None	RIGID	Typical
8	8	N144B	N150			RIGID	None	None	RIGID	Typical
9	9	N84	N89A			RIGID	None	None	RIGID	Typical
10	10	N151A	N141A			RIGID	None	None	RIGID	Typical
11	11	N150A	N154			RIGID	None	None	RIGID	Typical
12	12	N157B	N133C			RIGID	None	None	RIGID	Typical
13	13	N156B	N146			RIGID	None	None	RIGID	Typical
14	14	N101A	N102A			RIGID	None	None	RIGID	Typical
15	15	N103A	N104A			RIGID	None	None	RIGID	Typical
16	16	N105A	N106A			RIGID	None	None	RIGID	Typical
17	17	N140	N141		180	RIGID	None	None	RIGID	Typical
18	18	N142	N143		180	RIGID	None	None	RIGID	Typical
19	19	N144	N145		180	RIGID	None	None	RIGID	Typical
20	20	N79	N166A			RIGID	None	None	RIGID	Typical
21	21	N78	N165A			RIGID	None	None	RIGID	Typical
22	22	N80	N167A			RIGID	None	None	RIGID	Typical
23	23	N172A	N176A		180	RIGID	None	None	RIGID	Typical
24	24	N171A	N175A		180	RIGID	None	None	RIGID	Typical
25	25	N173A	N177		180	RIGID	None	None	RIGID	Typical
26	26	N182	N186		180	RIGID	None	None	RIGID	Typical
27	27	N181	N185		180	RIGID	None	None	RIGID	Typical
28	28	N183	N187		180	RIGID	None	None	RIGID	Typical
29	29	N85	N90A			RIGID	None	None	RIGID	Typical
30	30	N155C	N156D			RIGID	None	None	RIGID	Typical
31	31	N157C	N158			RIGID	None	None	RIGID	Typical
32	32	N159	N160			RIGID	None	None	RIGID	Typical
33	33	N161A	N162A			RIGID	None	None	RIGID	Typical
34	34	N163A	N164			RIGID	None	None	RIGID	Typical
35	35	N165B	N166B			RIGID	None	None	RIGID	Typical
36	36	N167B	N168A		180	RIGID	None	None	RIGID	Typical
37	37	N169	N170		180	RIGID	None	None	RIGID	Typical
38	38	N171	N172		180	RIGID	None	None	RIGID	Typical
39	39	N173	N175			RIGID	None	None	RIGID	Typical
40	40	N174	N176			RIGID	None	None	RIGID	Typical
41	41	N178A	N180			RIGID	None	None	RIGID	Typical
42	42	N179A	N181A			RIGID	None	None	RIGID	Typical
43	43	N183A	N185A			RIGID	None	None	RIGID	Typical
44	44	N184	N186A			RIGID	None	None	RIGID	Typical
45	45	N186B	N188A			RIGID	None	None	RIGID	Typical
46	46	N185B	N187A			RIGID	None	None	RIGID	Typical
47	47	N191	N193			RIGID	None	None	RIGID	Typical
48	48	N190	N192			RIGID	None	None	RIGID	Typical
49	49	N196	N198		180	RIGID	None	None	RIGID	Typical
50	50	N195	N197		180	RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(...	Section/Shape	Type	Design List	Material	Design R...
51	CONNANGLE1	N168	N169A			L3X3X6	Beam	Single Angle	A36 Gr.36	Typical
52	CONNANGLE2	N178	N179			L3X3X6	Beam	Single Angle	A36 Gr.36	Typical
53	CONNANGLE3	N188	N189		180	L3X3X6	Beam	Single Angle	A36 Gr.36	Typical
54	CORNER1	N132	N133		90	C5X9	Beam	Channel	A36 Gr.36	Typical
55	CORNER2	N133B	N134A		90	C5X9	Beam	Channel	A36 Gr.36	Typical
56	CORNER3	N134B	N135A		270	C5X9	Beam	Channel	A36 Gr.36	Typical
57	FACE1	N67	N6		270	C5X9	Beam	Channel	A36 Gr.36	Typical
58	FACE2	N64	N6		270	C5X9	Beam	Channel	A36 Gr.36	Typical
59	FACE3	N66	N4		90	C5X9	Beam	Channel	A36 Gr.36	Typical
60	FACE4	N67	N4		90	C5X9	Beam	Channel	A36 Gr.36	Typical
61	FACE5	N64	N2		90	C5X9	Beam	Channel	A36 Gr.36	Typical
62	FACE6	N66	N2		90	C5X9	Beam	Channel	A36 Gr.36	Typical
63	LADDER1	N100	N102		300	L1.75x1.75x4	Beam	Single Angle	A36 Gr.36	Typical
64	LADDER2	N101	N103		30	L1.75x1.75x4	Beam	Single Angle	A36 Gr.36	Typical
65	LADDERPLATE1	N87A	N85A		120	3/8 x 4	Beam	RECT	A36 Gr.36	Typical
66	LADDERPLATE2	N88	N86		120	3/8 x 4	Beam	RECT	A36 Gr.36	Typical
67	M PIPE1	N180	N176			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
68	M PIPE2	N175	N186A			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
69	M PIPE3	N185A	N181A			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
70	M RAIL1	N149B	N150B			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
71	M RAIL2	N155B	N156C			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
72	M RAIL3	N152A	N153A			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
73	MP ALPHA1	N119	N131			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
74	MP ALPHA2	N118	N130			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
75	MP ALPHA3	N117	N129			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
76	MP BETA1	N163	N167		240	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
77	MP BETA2	N162	N166		240	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
78	MP BETA3	N161	N165		240	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
79	MP GAMMA1	N124	N128A		120	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
80	MP GAMMA2	N123	N127		120	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
81	MP GAMMA3	N122	N126		120	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
82	R ANGLE1	N197	N188A		90	L2.5x2.5x4	Beam	Single Angle	A36 Gr.36	Typical
83	R ANGLE2	N187A	N193		90	L2.5x2.5x4	Beam	Single Angle	A36 Gr.36	Typical
84	R ANGLE3	N192	N198		270	L2.5x2.5x4	Beam	Single Angle	A36 Gr.36	Typical
85	RUNG1	N100	N101			SR 5/8	Beam	BAR	A36 Gr.36	Typical
86	RUNG2	N104	N105			SR 5/8	Beam	BAR	A36 Gr.36	Typical
87	RUNG3	N106	N107			SR 5/8	Beam	BAR	A36 Gr.36	Typical
88	RUNG4	N108	N109			SR 5/8	Beam	BAR	A36 Gr.36	Typical
89	RUNG5	N110	N111			SR 5/8	Beam	BAR	A36 Gr.36	Typical
90	RUNG6	N112	N113			SR 5/8	Beam	BAR	A36 Gr.36	Typical
91	RUNG7	N114	N115			SR 5/8	Beam	BAR	A36 Gr.36	Typical
92	SO1	N149A	N150A			HSS3X3X4	Beam	HSS Pipe	A500 Gr.B R...	Typical
93	SO2	N145A	N144B			HSS3X3X4	Beam	HSS Pipe	A500 Gr.B R...	Typical
94	SO3	N155A	N156B			HSS3X3X4	Beam	HSS Pipe	A500 Gr.B R...	Typical
95	SUPPORT1	N31	N32		90	C5X9	Beam	Channel	A36 Gr.36	Typical
96	SUPPORT2	N33	N34		90	C5X9	Beam	Channel	A36 Gr.36	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	1						Yes	** NA **			None
2	2						Yes	** NA **			None
3	3						Yes	** NA **			None
4	4						Yes	** NA **			None
5	5						Yes	** NA **			None
6	6						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...
7	7						Yes	** NA **			None
8	8						Yes	** NA **			None
9	9						Yes	** NA **			None
10	10						Yes	** NA **			None
11	11						Yes	** NA **			None
12	12						Yes	** NA **			None
13	13						Yes	** NA **			None
14	14						Yes	** NA **			None
15	15						Yes	** NA **			None
16	16						Yes	** NA **			None
17	17						Yes	** NA **			None
18	18						Yes	** NA **			None
19	19						Yes	** NA **			None
20	20						Yes	** NA **			None
21	21						Yes	** NA **			None
22	22						Yes	** NA **			None
23	23						Yes	** NA **			None
24	24						Yes	** NA **			None
25	25						Yes	** NA **			None
26	26						Yes	** NA **			None
27	27						Yes	** NA **			None
28	28						Yes	** NA **			None
29	29						Yes	** NA **			None
30	30						Yes	** NA **			None
31	31						Yes	** NA **			None
32	32						Yes	** NA **			None
33	33						Yes	** NA **			None
34	34						Yes	** NA **			None
35	35						Yes	** NA **			None
36	36						Yes	** NA **			None
37	37						Yes	** NA **			None
38	38						Yes	** NA **			None
39	39						Yes	** NA **			None
40	40						Yes	** NA **			None
41	41						Yes	** NA **			None
42	42						Yes	** NA **			None
43	43						Yes	** NA **			None
44	44						Yes	** NA **			None
45	45						Yes	** NA **			None
46	46						Yes	** NA **			None
47	47						Yes	** NA **			None
48	48						Yes	** NA **			None
49	49						Yes	** NA **			None
50	50						Yes	** NA **			None
51	CONNANG...						Yes				None
52	CONNANG...						Yes				None
53	CONNANG...						Yes				None
54	CORNER1	BenPIN	BenPIN				Yes	Default			None
55	CORNER2	BenPIN	BenPIN				Yes	Default			None
56	CORNER3	BenPIN	BenPIN				Yes	Default			None
57	FACE1						Yes				None
58	FACE2						Yes				None
59	FACE3						Yes				None
60	FACE4						Yes				None
61	FACE5						Yes				None
62	FACE6						Yes				None
63	LADDER1						Yes				None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
64	LADDER2						Yes				None
65	LADDERP...						Yes		-z		None
66	LADDERP...						Yes	Default	-z		None
67	M PIPE1	BenPIN	BenPIN				Yes	Default			None
68	M PIPE2	BenPIN	BenPIN				Yes	Default			None
69	M PIPE3	BenPIN	BenPIN				Yes	Default			None
70	M RAIL1						Yes				None
71	M RAIL2						Yes				None
72	M RAIL3						Yes				None
73	MP ALPHA1						Yes				None
74	MP ALPHA2						Yes				None
75	MP ALPHA3						Yes				None
76	MP BETA1						Yes				None
77	MP BETA2						Yes				None
78	MP BETA3						Yes				None
79	MP GAMM...						Yes				None
80	MP GAMM...						Yes				None
81	MP GAMM...						Yes				None
82	R ANGLE1						Yes				None
83	R ANGLE2						Yes				None
84	R ANGLE3						Yes				None
85	RUNG1						Yes				None
86	RUNG2						Yes				None
87	RUNG3						Yes				None
88	RUNG4						Yes				None
89	RUNG5						Yes				None
90	RUNG6						Yes				None
91	RUNG7						Yes				None
92	SO1						Yes				None
93	SO2						Yes				None
94	SO3						Yes				None
95	SUPPORT1	BenPIN	BenPIN				Yes	Default			None
96	SUPPORT2	BenPIN	BenPIN				Yes	Default			None

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 ALPHA1	Y	-.09	5.75
2	MP ALPHA1	Y	-.09	2.25
3	MP BETA1	Y	-.05	5.75
4	MP BETA1	Y	-.05	2.25
5	MP GAMMA1	Y	-.05	5.75
6	MP GAMMA1	Y	-.05	2.25
7	MP ALPHA3	Y	-.106	4.75
8	MP ALPHA3	Y	-.106	3.25
9	MP BETA3	Y	-.058	4.75
10	MP BETA3	Y	-.058	3.25
11	MP GAMMA3	Y	-.058	4.75
12	MP GAMMA3	Y	-.058	3.25
13	MP ALPHA2	Y	-.294	7
14	MP ALPHA2	Y	-.294	1
15	MP BETA2	Y	-.157	7

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
16	MP BETA2	Y	-.157	1
17	MP GAMMA2	Y	-.157	7
18	MP GAMMA2	Y	-.157	1
19	MP ALPHA1	Y	-.079	4
20	MP BETA1	Y	-.066	4
21	MP GAMMA1	Y	-.066	4
22	MP ALPHA2	Y	-.106	4
23	MP BETA2	Y	-.065	4
24	MP GAMMA2	Y	-.065	4

Member Point Loads (BLC 3 : Dead Load)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Z	-.017	5.75
2	MP ALPHA1	Z	-.017	2.25
3	MP BETA1	Z	-.017	5.75
4	MP BETA1	Z	-.017	2.25
5	MP GAMMA1	Z	-.017	5.75
6	MP GAMMA1	Z	-.017	2.25
7	MP ALPHA3	Z	-.052	4.75
8	MP ALPHA3	Z	-.052	3.25
9	MP BETA3	Z	-.052	4.75
10	MP BETA3	Z	-.052	3.25
11	MP GAMMA3	Z	-.052	4.75
12	MP GAMMA3	Z	-.052	3.25
13	MP ALPHA2	Z	-.075	7
14	MP ALPHA2	Z	-.075	1
15	MP BETA2	Z	-.075	7
16	MP BETA2	Z	-.075	1
17	MP GAMMA2	Z	-.075	7
18	MP GAMMA2	Z	-.075	1
19	MP ALPHA1	Z	-.109	4
20	MP BETA1	Z	-.109	4
21	MP GAMMA1	Z	-.109	4
22	MP ALPHA2	Z	-.081	4
23	MP BETA2	Z	-.081	4
24	MP GAMMA2	Z	-.081	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	-.059	5.75
2	MP ALPHA1	Y	-.059	2.25
3	MP ALPHA1	X	-.034	5.75
4	MP ALPHA1	X	-.034	2.25
5	MP BETA1	Y	-.031	5.75
6	MP BETA1	Y	-.031	2.25
7	MP BETA1	X	-.018	5.75
8	MP BETA1	X	-.018	2.25
9	MP GAMMA1	Y	-.067	5.75
10	MP GAMMA1	Y	-.067	2.25
11	MP GAMMA1	X	-.039	5.75
12	MP GAMMA1	X	-.039	2.25
13	MP ALPHA3	Y	-.07	4.75
14	MP ALPHA3	Y	-.07	3.25
15	MP ALPHA3	X	-.04	4.75
16	MP ALPHA3	X	-.04	3.25
17	MP BETA3	Y	-.036	4.75

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
18	MP BETA3	Y	-.036	3.25
19	MP BETA3	X	-.021	4.75
20	MP BETA3	X	-.021	3.25
21	MP GAMMA3	Y	-.079	4.75
22	MP GAMMA3	Y	-.079	3.25
23	MP GAMMA3	X	-.046	4.75
24	MP GAMMA3	X	-.046	3.25
25	MP ALPHA2	Y	-.191	7
26	MP ALPHA2	Y	-.191	1
27	MP ALPHA2	X	-.11	7
28	MP ALPHA2	X	-.11	1
29	MP BETA2	Y	-.094	7
30	MP BETA2	Y	-.094	1
31	MP BETA2	X	-.054	7
32	MP BETA2	X	-.054	1
33	MP GAMMA2	Y	-.218	7
34	MP GAMMA2	Y	-.218	1
35	MP GAMMA2	X	-.126	7
36	MP GAMMA2	X	-.126	1
37	MP ALPHA1	Y	-.065	4
38	MP ALPHA1	X	-.037	4
39	MP BETA1	Y	-.054	4
40	MP BETA1	X	-.031	4
41	MP GAMMA1	Y	-.065	4
42	MP GAMMA1	X	-.037	4
43	MP ALPHA2	Y	-.08	4
44	MP ALPHA2	X	-.046	4
45	MP BETA2	Y	-.045	4
46	MP BETA2	X	-.026	4
47	MP GAMMA2	Y	-.08	4
48	MP GAMMA2	X	-.046	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	-.021	5.75
2	MP ALPHA1	Y	-.021	2.25
3	MP ALPHA1	X	-.036	5.75
4	MP ALPHA1	X	-.036	2.25
5	MP BETA1	Y	-.025	5.75
6	MP BETA1	Y	-.025	2.25
7	MP BETA1	X	-.043	5.75
8	MP BETA1	X	-.043	2.25
9	MP GAMMA1	Y	-.046	5.75
10	MP GAMMA1	Y	-.046	2.25
11	MP GAMMA1	X	-.079	5.75
12	MP GAMMA1	X	-.079	2.25
13	MP ALPHA3	Y	-.025	4.75
14	MP ALPHA3	Y	-.025	3.25
15	MP ALPHA3	X	-.043	4.75
16	MP ALPHA3	X	-.043	3.25
17	MP BETA3	Y	-.029	4.75
18	MP BETA3	Y	-.029	3.25
19	MP BETA3	X	-.051	4.75
20	MP BETA3	X	-.051	3.25
21	MP GAMMA3	Y	-.054	4.75
22	MP GAMMA3	Y	-.054	3.25

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
23	MP GAMMA3	X	-.094	4.75
24	MP GAMMA3	X	-.094	3.25
25	MP ALPHA2	Y	-.066	7
26	MP ALPHA2	Y	-.066	1
27	MP ALPHA2	X	-.114	7
28	MP ALPHA2	X	-.114	1
29	MP BETA2	Y	-.078	7
30	MP BETA2	Y	-.078	1
31	MP BETA2	X	-.136	7
32	MP BETA2	X	-.136	1
33	MP GAMMA2	Y	-.15	7
34	MP GAMMA2	Y	-.15	1
35	MP GAMMA2	X	-.26	7
36	MP GAMMA2	X	-.26	1
37	MP ALPHA1	Y	-.033	4
38	MP ALPHA1	X	-.057	4
39	MP BETA1	Y	-.033	4
40	MP BETA1	X	-.057	4
41	MP GAMMA1	Y	-.039	4
42	MP GAMMA1	X	-.068	4
43	MP ALPHA2	Y	-.033	4
44	MP ALPHA2	X	-.056	4
45	MP BETA2	Y	-.033	4
46	MP BETA2	X	-.056	4
47	MP GAMMA2	Y	-.053	4
48	MP GAMMA2	X	-.092	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	X	-.037	5.75
2	MP ALPHA1	X	-.037	2.25
3	MP BETA1	X	-.078	5.75
4	MP BETA1	X	-.078	2.25
5	MP GAMMA1	X	-.078	5.75
6	MP GAMMA1	X	-.078	2.25
7	MP ALPHA3	X	-.044	4.75
8	MP ALPHA3	X	-.044	3.25
9	MP BETA3	X	-.091	4.75
10	MP BETA3	X	-.091	3.25
11	MP GAMMA3	X	-.091	4.75
12	MP GAMMA3	X	-.091	3.25
13	MP ALPHA2	X	-.115	7
14	MP ALPHA2	X	-.115	1
15	MP BETA2	X	-.252	7
16	MP BETA2	X	-.252	1
17	MP GAMMA2	X	-.252	7
18	MP GAMMA2	X	-.252	1
19	MP ALPHA1	X	-.062	4
20	MP BETA1	X	-.075	4
21	MP GAMMA1	X	-.075	4
22	MP ALPHA2	X	-.051	4
23	MP BETA2	X	-.092	4
24	MP GAMMA2	X	-.092	4

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

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

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	.029	5.75
2	MP ALPHA1	Y	.029	2.25
3	MP ALPHA1	X	-.051	5.75
4	MP ALPHA1	X	-.051	2.25
5	MP BETA1	Y	.046	5.75
6	MP BETA1	Y	.046	2.25
7	MP BETA1	X	-.079	5.75
8	MP BETA1	X	-.079	2.25
9	MP GAMMA1	Y	.025	5.75
10	MP GAMMA1	Y	.025	2.25
11	MP GAMMA1	X	-.043	5.75
12	MP GAMMA1	X	-.043	2.25
13	MP ALPHA3	Y	.035	4.75
14	MP ALPHA3	Y	.035	3.25
15	MP ALPHA3	X	-.06	4.75
16	MP ALPHA3	X	-.06	3.25
17	MP BETA3	Y	.054	4.75
18	MP BETA3	Y	.054	3.25
19	MP BETA3	X	-.094	4.75
20	MP BETA3	X	-.094	3.25
21	MP GAMMA3	Y	.029	4.75
22	MP GAMMA3	Y	.029	3.25
23	MP GAMMA3	X	-.051	4.75
24	MP GAMMA3	X	-.051	3.25
25	MP ALPHA2	Y	.094	7
26	MP ALPHA2	Y	.094	1
27	MP ALPHA2	X	-.163	7
28	MP ALPHA2	X	-.163	1
29	MP BETA2	Y	.15	7
30	MP BETA2	Y	.15	1
31	MP BETA2	X	-.26	7
32	MP BETA2	X	-.26	1
33	MP GAMMA2	Y	.078	7
34	MP GAMMA2	Y	.078	1
35	MP GAMMA2	X	-.136	7
36	MP GAMMA2	X	-.136	1
37	MP ALPHA1	Y	.033	4
38	MP ALPHA1	X	-.057	4
39	MP BETA1	Y	.039	4
40	MP BETA1	X	-.068	4
41	MP GAMMA1	Y	.033	4
42	MP GAMMA1	X	-.057	4
43	MP ALPHA2	Y	.033	4
44	MP ALPHA2	X	-.056	4
45	MP BETA2	Y	.053	4
46	MP BETA2	X	-.092	4
47	MP GAMMA2	Y	.033	4
48	MP GAMMA2	X	-.056	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	.074	5.75
2	MP ALPHA1	Y	.074	2.25
3	MP ALPHA1	X	-.043	5.75
4	MP ALPHA1	X	-.043	2.25
5	MP BETA1	Y	.067	5.75

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
6	MP BETA1	Y	.067	2.25
7	MP BETA1	X	-.039	5.75
8	MP BETA1	X	-.039	2.25
9	MP GAMMA1	Y	.031	5.75
10	MP GAMMA1	Y	.031	2.25
11	MP GAMMA1	X	-.018	5.75
12	MP GAMMA1	X	-.018	2.25
13	MP ALPHA3	Y	.087	4.75
14	MP ALPHA3	Y	.087	3.25
15	MP ALPHA3	X	-.05	4.75
16	MP ALPHA3	X	-.05	3.25
17	MP BETA3	Y	.079	4.75
18	MP BETA3	Y	.079	3.25
19	MP BETA3	X	-.046	4.75
20	MP BETA3	X	-.046	3.25
21	MP GAMMA3	Y	.036	4.75
22	MP GAMMA3	Y	.036	3.25
23	MP GAMMA3	X	-.021	4.75
24	MP GAMMA3	X	-.021	3.25
25	MP ALPHA2	Y	.24	7
26	MP ALPHA2	Y	.24	1
27	MP ALPHA2	X	-.139	7
28	MP ALPHA2	X	-.139	1
29	MP BETA2	Y	.218	7
30	MP BETA2	Y	.218	1
31	MP BETA2	X	-.126	7
32	MP BETA2	X	-.126	1
33	MP GAMMA2	Y	.094	7
34	MP GAMMA2	Y	.094	1
35	MP GAMMA2	X	-.054	7
36	MP GAMMA2	X	-.054	1
37	MP ALPHA1	Y	.065	4
38	MP ALPHA1	X	-.037	4
39	MP BETA1	Y	.065	4
40	MP BETA1	X	-.037	4
41	MP GAMMA1	Y	.054	4
42	MP GAMMA1	X	-.031	4
43	MP ALPHA2	Y	.08	4
44	MP ALPHA2	X	-.046	4
45	MP BETA2	Y	.08	4
46	MP BETA2	X	-.046	4
47	MP GAMMA2	Y	.045	4
48	MP GAMMA2	X	-.026	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	.09	5.75
2	MP ALPHA1	Y	.09	2.25
3	MP BETA1	Y	.05	5.75
4	MP BETA1	Y	.05	2.25
5	MP GAMMA1	Y	.05	5.75
6	MP GAMMA1	Y	.05	2.25
7	MP ALPHA3	Y	.106	4.75
8	MP ALPHA3	Y	.106	3.25
9	MP BETA3	Y	.058	4.75
10	MP BETA3	Y	.058	3.25

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
11	MP GAMMA3	Y	.058	4.75
12	MP GAMMA3	Y	.058	3.25
13	MP ALPHA2	Y	.294	7
14	MP ALPHA2	Y	.294	1
15	MP BETA2	Y	.157	7
16	MP BETA2	Y	.157	1
17	MP GAMMA2	Y	.157	7
18	MP GAMMA2	Y	.157	1
19	MP ALPHA1	Y	.079	4
20	MP BETA1	Y	.066	4
21	MP GAMMA1	Y	.066	4
22	MP ALPHA2	Y	.106	4
23	MP BETA2	Y	.065	4
24	MP GAMMA2	Y	.065	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	.059	5.75
2	MP ALPHA1	Y	.059	2.25
3	MP ALPHA1	X	.034	5.75
4	MP ALPHA1	X	.034	2.25
5	MP BETA1	Y	.031	5.75
6	MP BETA1	Y	.031	2.25
7	MP BETA1	X	.018	5.75
8	MP BETA1	X	.018	2.25
9	MP GAMMA1	Y	.067	5.75
10	MP GAMMA1	Y	.067	2.25
11	MP GAMMA1	X	.039	5.75
12	MP GAMMA1	X	.039	2.25
13	MP ALPHA3	Y	.07	4.75
14	MP ALPHA3	Y	.07	3.25
15	MP ALPHA3	X	.04	4.75
16	MP ALPHA3	X	.04	3.25
17	MP BETA3	Y	.036	4.75
18	MP BETA3	Y	.036	3.25
19	MP BETA3	X	.021	4.75
20	MP BETA3	X	.021	3.25
21	MP GAMMA3	Y	.079	4.75
22	MP GAMMA3	Y	.079	3.25
23	MP GAMMA3	X	.046	4.75
24	MP GAMMA3	X	.046	3.25
25	MP ALPHA2	Y	.191	7
26	MP ALPHA2	Y	.191	1
27	MP ALPHA2	X	.11	7
28	MP ALPHA2	X	.11	1
29	MP BETA2	Y	.094	7
30	MP BETA2	Y	.094	1
31	MP BETA2	X	.054	7
32	MP BETA2	X	.054	1
33	MP GAMMA2	Y	.218	7
34	MP GAMMA2	Y	.218	1
35	MP GAMMA2	X	.126	7
36	MP GAMMA2	X	.126	1
37	MP ALPHA1	Y	.065	4
38	MP ALPHA1	X	.037	4
39	MP BETA1	Y	.054	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
40	MP BETA1	X	.031	4
41	MP GAMMA1	Y	.065	4
42	MP GAMMA1	X	.037	4
43	MP ALPHA2	Y	.08	4
44	MP ALPHA2	X	.046	4
45	MP BETA2	Y	.045	4
46	MP BETA2	X	.026	4
47	MP GAMMA2	Y	.08	4
48	MP GAMMA2	X	.046	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	.021	5.75
2	MP ALPHA1	Y	.021	2.25
3	MP ALPHA1	X	.036	5.75
4	MP ALPHA1	X	.036	2.25
5	MP BETA1	Y	.025	5.75
6	MP BETA1	Y	.025	2.25
7	MP BETA1	X	.043	5.75
8	MP BETA1	X	.043	2.25
9	MP GAMMA1	Y	.046	5.75
10	MP GAMMA1	Y	.046	2.25
11	MP GAMMA1	X	.079	5.75
12	MP GAMMA1	X	.079	2.25
13	MP ALPHA3	Y	.025	4.75
14	MP ALPHA3	Y	.025	3.25
15	MP ALPHA3	X	.043	4.75
16	MP ALPHA3	X	.043	3.25
17	MP BETA3	Y	.029	4.75
18	MP BETA3	Y	.029	3.25
19	MP BETA3	X	.051	4.75
20	MP BETA3	X	.051	3.25
21	MP GAMMA3	Y	.054	4.75
22	MP GAMMA3	Y	.054	3.25
23	MP GAMMA3	X	.094	4.75
24	MP GAMMA3	X	.094	3.25
25	MP ALPHA2	Y	.066	7
26	MP ALPHA2	Y	.066	1
27	MP ALPHA2	X	.114	7
28	MP ALPHA2	X	.114	1
29	MP BETA2	Y	.078	7
30	MP BETA2	Y	.078	1
31	MP BETA2	X	.136	7
32	MP BETA2	X	.136	1
33	MP GAMMA2	Y	.15	7
34	MP GAMMA2	Y	.15	1
35	MP GAMMA2	X	.26	7
36	MP GAMMA2	X	.26	1
37	MP ALPHA1	Y	.033	4
38	MP ALPHA1	X	.057	4
39	MP BETA1	Y	.033	4
40	MP BETA1	X	.057	4
41	MP GAMMA1	Y	.039	4
42	MP GAMMA1	X	.068	4
43	MP ALPHA2	Y	.033	4
44	MP ALPHA2	X	.056	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
45	MP BETA2	Y	.033	4
46	MP BETA2	X	.056	4
47	MP GAMMA2	Y	.053	4
48	MP GAMMA2	X	.092	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	X	.037	5.75
2	MP ALPHA1	X	.037	2.25
3	MP BETA1	X	.078	5.75
4	MP BETA1	X	.078	2.25
5	MP GAMMA1	X	.078	5.75
6	MP GAMMA1	X	.078	2.25
7	MP ALPHA3	X	.044	4.75
8	MP ALPHA3	X	.044	3.25
9	MP BETA3	X	.091	4.75
10	MP BETA3	X	.091	3.25
11	MP GAMMA3	X	.091	4.75
12	MP GAMMA3	X	.091	3.25
13	MP ALPHA2	X	.115	7
14	MP ALPHA2	X	.115	1
15	MP BETA2	X	.252	7
16	MP BETA2	X	.252	1
17	MP GAMMA2	X	.252	7
18	MP GAMMA2	X	.252	1
19	MP ALPHA1	X	.062	4
20	MP BETA1	X	.075	4
21	MP GAMMA1	X	.075	4
22	MP ALPHA2	X	.051	4
23	MP BETA2	X	.092	4
24	MP GAMMA2	X	.092	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	-.029	5.75
2	MP ALPHA1	Y	-.029	2.25
3	MP ALPHA1	X	.051	5.75
4	MP ALPHA1	X	.051	2.25
5	MP BETA1	Y	-.046	5.75
6	MP BETA1	Y	-.046	2.25
7	MP BETA1	X	.079	5.75
8	MP BETA1	X	.079	2.25
9	MP GAMMA1	Y	-.025	5.75
10	MP GAMMA1	Y	-.025	2.25
11	MP GAMMA1	X	.043	5.75
12	MP GAMMA1	X	.043	2.25
13	MP ALPHA3	Y	-.035	4.75
14	MP ALPHA3	Y	-.035	3.25
15	MP ALPHA3	X	.06	4.75
16	MP ALPHA3	X	.06	3.25
17	MP BETA3	Y	-.054	4.75
18	MP BETA3	Y	-.054	3.25
19	MP BETA3	X	.094	4.75
20	MP BETA3	X	.094	3.25
21	MP GAMMA3	Y	-.029	4.75
22	MP GAMMA3	Y	-.029	3.25

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
23	MP GAMMA3	X	.051	4.75
24	MP GAMMA3	X	.051	3.25
25	MP ALPHA2	Y	-.094	7
26	MP ALPHA2	Y	-.094	1
27	MP ALPHA2	X	.163	7
28	MP ALPHA2	X	.163	1
29	MP BETA2	Y	-.15	7
30	MP BETA2	Y	-.15	1
31	MP BETA2	X	.26	7
32	MP BETA2	X	.26	1
33	MP GAMMA2	Y	-.078	7
34	MP GAMMA2	Y	-.078	1
35	MP GAMMA2	X	.136	7
36	MP GAMMA2	X	.136	1
37	MP ALPHA1	Y	-.033	4
38	MP ALPHA1	X	.057	4
39	MP BETA1	Y	-.039	4
40	MP BETA1	X	.068	4
41	MP GAMMA1	Y	-.033	4
42	MP GAMMA1	X	.057	4
43	MP ALPHA2	Y	-.033	4
44	MP ALPHA2	X	.056	4
45	MP BETA2	Y	-.053	4
46	MP BETA2	X	.092	4
47	MP GAMMA2	Y	-.033	4
48	MP GAMMA2	X	.056	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	-.074	5.75
2	MP ALPHA1	Y	-.074	2.25
3	MP ALPHA1	X	.043	5.75
4	MP ALPHA1	X	.043	2.25
5	MP BETA1	Y	-.067	5.75
6	MP BETA1	Y	-.067	2.25
7	MP BETA1	X	.039	5.75
8	MP BETA1	X	.039	2.25
9	MP GAMMA1	Y	-.031	5.75
10	MP GAMMA1	Y	-.031	2.25
11	MP GAMMA1	X	.018	5.75
12	MP GAMMA1	X	.018	2.25
13	MP ALPHA3	Y	-.087	4.75
14	MP ALPHA3	Y	-.087	3.25
15	MP ALPHA3	X	.05	4.75
16	MP ALPHA3	X	.05	3.25
17	MP BETA3	Y	-.079	4.75
18	MP BETA3	Y	-.079	3.25
19	MP BETA3	X	.046	4.75
20	MP BETA3	X	.046	3.25
21	MP GAMMA3	Y	-.036	4.75
22	MP GAMMA3	Y	-.036	3.25
23	MP GAMMA3	X	.021	4.75
24	MP GAMMA3	X	.021	3.25
25	MP ALPHA2	Y	-.24	7
26	MP ALPHA2	Y	-.24	1
27	MP ALPHA2	X	.139	7

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
28	MP ALPHA2	X	.139	1
29	MP BETA2	Y	-.218	7
30	MP BETA2	Y	-.218	1
31	MP BETA2	X	.126	7
32	MP BETA2	X	.126	1
33	MP GAMMA2	Y	-.094	7
34	MP GAMMA2	Y	-.094	1
35	MP GAMMA2	X	.054	7
36	MP GAMMA2	X	.054	1
37	MP ALPHA1	Y	-.065	4
38	MP ALPHA1	X	.037	4
39	MP BETA1	Y	-.065	4
40	MP BETA1	X	.037	4
41	MP GAMMA1	Y	-.054	4
42	MP GAMMA1	X	.031	4
43	MP ALPHA2	Y	-.08	4
44	MP ALPHA2	X	.046	4
45	MP BETA2	Y	-.08	4
46	MP BETA2	X	.046	4
47	MP GAMMA2	Y	-.045	4
48	MP GAMMA2	X	.026	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	-.006	5.75
2	MP ALPHA1	Y	-.006	2.25
3	MP BETA1	Y	-.003	5.75
4	MP BETA1	Y	-.003	2.25
5	MP GAMMA1	Y	-.003	5.75
6	MP GAMMA1	Y	-.003	2.25
7	MP ALPHA3	Y	-.007	4.75
8	MP ALPHA3	Y	-.007	3.25
9	MP BETA3	Y	-.004	4.75
10	MP BETA3	Y	-.004	3.25
11	MP GAMMA3	Y	-.004	4.75
12	MP GAMMA3	Y	-.004	3.25
13	MP ALPHA2	Y	-.019	7
14	MP ALPHA2	Y	-.019	1
15	MP BETA2	Y	-.01	7
16	MP BETA2	Y	-.01	1
17	MP GAMMA2	Y	-.01	7
18	MP GAMMA2	Y	-.01	1
19	MP ALPHA1	Y	-.005	4
20	MP BETA1	Y	-.004	4
21	MP GAMMA1	Y	-.004	4
22	MP ALPHA2	Y	-.007	4
23	MP BETA2	Y	-.004	4
24	MP GAMMA2	Y	-.004	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	-.004	5.75
2	MP ALPHA1	Y	-.004	2.25
3	MP ALPHA1	X	-.002	5.75
4	MP ALPHA1	X	-.002	2.25
5	MP BETA1	Y	-.002	5.75

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
6	MP BETA1	Y	-.002	2.25
7	MP BETA1	X	-.001	5.75
8	MP BETA1	X	-.001	2.25
9	MP GAMMA1	Y	-.004	5.75
10	MP GAMMA1	Y	-.004	2.25
11	MP GAMMA1	X	-.002	5.75
12	MP GAMMA1	X	-.002	2.25
13	MP ALPHA3	Y	-.004	4.75
14	MP ALPHA3	Y	-.004	3.25
15	MP ALPHA3	X	-.003	4.75
16	MP ALPHA3	X	-.003	3.25
17	MP BETA3	Y	-.002	4.75
18	MP BETA3	Y	-.002	3.25
19	MP BETA3	X	-.001	4.75
20	MP BETA3	X	-.001	3.25
21	MP GAMMA3	Y	-.005	4.75
22	MP GAMMA3	Y	-.005	3.25
23	MP GAMMA3	X	-.003	4.75
24	MP GAMMA3	X	-.003	3.25
25	MP ALPHA2	Y	-.012	7
26	MP ALPHA2	Y	-.012	1
27	MP ALPHA2	X	-.007	7
28	MP ALPHA2	X	-.007	1
29	MP BETA2	Y	-.006	7
30	MP BETA2	Y	-.006	1
31	MP BETA2	X	-.003	7
32	MP BETA2	X	-.003	1
33	MP GAMMA2	Y	-.014	7
34	MP GAMMA2	Y	-.014	1
35	MP GAMMA2	X	-.008	7
36	MP GAMMA2	X	-.008	1
37	MP ALPHA1	Y	-.004	4
38	MP ALPHA1	X	-.002	4
39	MP BETA1	Y	-.003	4
40	MP BETA1	X	-.002	4
41	MP GAMMA1	Y	-.004	4
42	MP GAMMA1	X	-.002	4
43	MP ALPHA2	Y	-.005	4
44	MP ALPHA2	X	-.003	4
45	MP BETA2	Y	-.003	4
46	MP BETA2	X	-.002	4
47	MP GAMMA2	Y	-.005	4
48	MP GAMMA2	X	-.003	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	-.001	5.75
2	MP ALPHA1	Y	-.001	2.25
3	MP ALPHA1	X	-.002	5.75
4	MP ALPHA1	X	-.002	2.25
5	MP BETA1	Y	-.002	5.75
6	MP BETA1	Y	-.002	2.25
7	MP BETA1	X	-.003	5.75
8	MP BETA1	X	-.003	2.25
9	MP GAMMA1	Y	-.003	5.75
10	MP GAMMA1	Y	-.003	2.25

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
11	MP GAMMA1	X	-.005	5.75
12	MP GAMMA1	X	-.005	2.25
13	MP ALPHA3	Y	-.002	4.75
14	MP ALPHA3	Y	-.002	3.25
15	MP ALPHA3	X	-.003	4.75
16	MP ALPHA3	X	-.003	3.25
17	MP BETA3	Y	-.002	4.75
18	MP BETA3	Y	-.002	3.25
19	MP BETA3	X	-.003	4.75
20	MP BETA3	X	-.003	3.25
21	MP GAMMA3	Y	-.003	4.75
22	MP GAMMA3	Y	-.003	3.25
23	MP GAMMA3	X	-.006	4.75
24	MP GAMMA3	X	-.006	3.25
25	MP ALPHA2	Y	-.004	7
26	MP ALPHA2	Y	-.004	1
27	MP ALPHA2	X	-.007	7
28	MP ALPHA2	X	-.007	1
29	MP BETA2	Y	-.005	7
30	MP BETA2	Y	-.005	1
31	MP BETA2	X	-.009	7
32	MP BETA2	X	-.009	1
33	MP GAMMA2	Y	-.01	7
34	MP GAMMA2	Y	-.01	1
35	MP GAMMA2	X	-.017	7
36	MP GAMMA2	X	-.017	1
37	MP ALPHA1	Y	-.002	4
38	MP ALPHA1	X	-.004	4
39	MP BETA1	Y	-.002	4
40	MP BETA1	X	-.004	4
41	MP GAMMA1	Y	-.003	4
42	MP GAMMA1	X	-.004	4
43	MP ALPHA2	Y	-.002	4
44	MP ALPHA2	X	-.004	4
45	MP BETA2	Y	-.002	4
46	MP BETA2	X	-.004	4
47	MP GAMMA2	Y	-.003	4
48	MP GAMMA2	X	-.006	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	X	-.002	5.75
2	MP ALPHA1	X	-.002	2.25
3	MP BETA1	X	-.005	5.75
4	MP BETA1	X	-.005	2.25
5	MP GAMMA1	X	-.005	5.75
6	MP GAMMA1	X	-.005	2.25
7	MP ALPHA3	X	-.003	4.75
8	MP ALPHA3	X	-.003	3.25
9	MP BETA3	X	-.006	4.75
10	MP BETA3	X	-.006	3.25
11	MP GAMMA3	X	-.006	4.75
12	MP GAMMA3	X	-.006	3.25
13	MP ALPHA2	X	-.007	7
14	MP ALPHA2	X	-.007	1
15	MP BETA2	X	-.016	7

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
16	MP BETA2	X	-.016	1
17	MP GAMMA2	X	-.016	7
18	MP GAMMA2	X	-.016	1
19	MP ALPHA1	X	-.004	4
20	MP BETA1	X	-.005	4
21	MP GAMMA1	X	-.005	4
22	MP ALPHA2	X	-.003	4
23	MP BETA2	X	-.006	4
24	MP GAMMA2	X	-.006	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	.002	5.75
2	MP ALPHA1	Y	.002	2.25
3	MP ALPHA1	X	-.003	5.75
4	MP ALPHA1	X	-.003	2.25
5	MP BETA1	Y	.003	5.75
6	MP BETA1	Y	.003	2.25
7	MP BETA1	X	-.005	5.75
8	MP BETA1	X	-.005	2.25
9	MP GAMMA1	Y	.002	5.75
10	MP GAMMA1	Y	.002	2.25
11	MP GAMMA1	X	-.003	5.75
12	MP GAMMA1	X	-.003	2.25
13	MP ALPHA3	Y	.002	4.75
14	MP ALPHA3	Y	.002	3.25
15	MP ALPHA3	X	-.004	4.75
16	MP ALPHA3	X	-.004	3.25
17	MP BETA3	Y	.003	4.75
18	MP BETA3	Y	.003	3.25
19	MP BETA3	X	-.006	4.75
20	MP BETA3	X	-.006	3.25
21	MP GAMMA3	Y	.002	4.75
22	MP GAMMA3	Y	.002	3.25
23	MP GAMMA3	X	-.003	4.75
24	MP GAMMA3	X	-.003	3.25
25	MP ALPHA2	Y	.006	7
26	MP ALPHA2	Y	.006	1
27	MP ALPHA2	X	-.01	7
28	MP ALPHA2	X	-.01	1
29	MP BETA2	Y	.01	7
30	MP BETA2	Y	.01	1
31	MP BETA2	X	-.017	7
32	MP BETA2	X	-.017	1
33	MP GAMMA2	Y	.005	7
34	MP GAMMA2	Y	.005	1
35	MP GAMMA2	X	-.009	7
36	MP GAMMA2	X	-.009	1
37	MP ALPHA1	Y	.002	4
38	MP ALPHA1	X	-.004	4
39	MP BETA1	Y	.003	4
40	MP BETA1	X	-.004	4
41	MP GAMMA1	Y	.002	4
42	MP GAMMA1	X	-.004	4
43	MP ALPHA2	Y	.002	4
44	MP ALPHA2	X	-.004	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
45	MP BETA2	Y	.003	4
46	MP BETA2	X	-.006	4
47	MP GAMMA2	Y	.002	4
48	MP GAMMA2	X	-.004	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	.005	5.75
2	MP ALPHA1	Y	.005	2.25
3	MP ALPHA1	X	-.003	5.75
4	MP ALPHA1	X	-.003	2.25
5	MP BETA1	Y	.004	5.75
6	MP BETA1	Y	.004	2.25
7	MP BETA1	X	-.002	5.75
8	MP BETA1	X	-.002	2.25
9	MP GAMMA1	Y	.002	5.75
10	MP GAMMA1	Y	.002	2.25
11	MP GAMMA1	X	-.001	5.75
12	MP GAMMA1	X	-.001	2.25
13	MP ALPHA3	Y	.006	4.75
14	MP ALPHA3	Y	.006	3.25
15	MP ALPHA3	X	-.003	4.75
16	MP ALPHA3	X	-.003	3.25
17	MP BETA3	Y	.005	4.75
18	MP BETA3	Y	.005	3.25
19	MP BETA3	X	-.003	4.75
20	MP BETA3	X	-.003	3.25
21	MP GAMMA3	Y	.002	4.75
22	MP GAMMA3	Y	.002	3.25
23	MP GAMMA3	X	-.001	4.75
24	MP GAMMA3	X	-.001	3.25
25	MP ALPHA2	Y	.015	7
26	MP ALPHA2	Y	.015	1
27	MP ALPHA2	X	-.009	7
28	MP ALPHA2	X	-.009	1
29	MP BETA2	Y	.014	7
30	MP BETA2	Y	.014	1
31	MP BETA2	X	-.008	7
32	MP BETA2	X	-.008	1
33	MP GAMMA2	Y	.006	7
34	MP GAMMA2	Y	.006	1
35	MP GAMMA2	X	-.003	7
36	MP GAMMA2	X	-.003	1
37	MP ALPHA1	Y	.004	4
38	MP ALPHA1	X	-.002	4
39	MP BETA1	Y	.004	4
40	MP BETA1	X	-.002	4
41	MP GAMMA1	Y	.003	4
42	MP GAMMA1	X	-.002	4
43	MP ALPHA2	Y	.005	4
44	MP ALPHA2	X	-.003	4
45	MP BETA2	Y	.005	4
46	MP BETA2	X	-.003	4
47	MP GAMMA2	Y	.003	4
48	MP GAMMA2	X	-.002	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	.006	5.75
2	MP ALPHA1	Y	.006	2.25
3	MP BETA1	Y	.003	5.75
4	MP BETA1	Y	.003	2.25
5	MP GAMMA1	Y	.003	5.75
6	MP GAMMA1	Y	.003	2.25
7	MP ALPHA3	Y	.007	4.75
8	MP ALPHA3	Y	.007	3.25
9	MP BETA3	Y	.004	4.75
10	MP BETA3	Y	.004	3.25
11	MP GAMMA3	Y	.004	4.75
12	MP GAMMA3	Y	.004	3.25
13	MP ALPHA2	Y	.019	7
14	MP ALPHA2	Y	.019	1
15	MP BETA2	Y	.01	7
16	MP BETA2	Y	.01	1
17	MP GAMMA2	Y	.01	7
18	MP GAMMA2	Y	.01	1
19	MP ALPHA1	Y	.005	4
20	MP BETA1	Y	.004	4
21	MP GAMMA1	Y	.004	4
22	MP ALPHA2	Y	.007	4
23	MP BETA2	Y	.004	4
24	MP GAMMA2	Y	.004	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	.004	5.75
2	MP ALPHA1	Y	.004	2.25
3	MP ALPHA1	X	.002	5.75
4	MP ALPHA1	X	.002	2.25
5	MP BETA1	Y	.002	5.75
6	MP BETA1	Y	.002	2.25
7	MP BETA1	X	.001	5.75
8	MP BETA1	X	.001	2.25
9	MP GAMMA1	Y	.004	5.75
10	MP GAMMA1	Y	.004	2.25
11	MP GAMMA1	X	.002	5.75
12	MP GAMMA1	X	.002	2.25
13	MP ALPHA3	Y	.004	4.75
14	MP ALPHA3	Y	.004	3.25
15	MP ALPHA3	X	.003	4.75
16	MP ALPHA3	X	.003	3.25
17	MP BETA3	Y	.002	4.75
18	MP BETA3	Y	.002	3.25
19	MP BETA3	X	.001	4.75
20	MP BETA3	X	.001	3.25
21	MP GAMMA3	Y	.005	4.75
22	MP GAMMA3	Y	.005	3.25
23	MP GAMMA3	X	.003	4.75
24	MP GAMMA3	X	.003	3.25
25	MP ALPHA2	Y	.012	7
26	MP ALPHA2	Y	.012	1
27	MP ALPHA2	X	.007	7
28	MP ALPHA2	X	.007	1
29	MP BETA2	Y	.006	7

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
30	MP BETA2	Y	.006	1
31	MP BETA2	X	.003	7
32	MP BETA2	X	.003	1
33	MP GAMMA2	Y	.014	7
34	MP GAMMA2	Y	.014	1
35	MP GAMMA2	X	.008	7
36	MP GAMMA2	X	.008	1
37	MP ALPHA1	Y	.004	4
38	MP ALPHA1	X	.002	4
39	MP BETA1	Y	.003	4
40	MP BETA1	X	.002	4
41	MP GAMMA1	Y	.004	4
42	MP GAMMA1	X	.002	4
43	MP ALPHA2	Y	.005	4
44	MP ALPHA2	X	.003	4
45	MP BETA2	Y	.003	4
46	MP BETA2	X	.002	4
47	MP GAMMA2	Y	.005	4
48	MP GAMMA2	X	.003	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	.001	5.75
2	MP ALPHA1	Y	.001	2.25
3	MP ALPHA1	X	.002	5.75
4	MP ALPHA1	X	.002	2.25
5	MP BETA1	Y	.002	5.75
6	MP BETA1	Y	.002	2.25
7	MP BETA1	X	.003	5.75
8	MP BETA1	X	.003	2.25
9	MP GAMMA1	Y	.003	5.75
10	MP GAMMA1	Y	.003	2.25
11	MP GAMMA1	X	.005	5.75
12	MP GAMMA1	X	.005	2.25
13	MP ALPHA3	Y	.002	4.75
14	MP ALPHA3	Y	.002	3.25
15	MP ALPHA3	X	.003	4.75
16	MP ALPHA3	X	.003	3.25
17	MP BETA3	Y	.002	4.75
18	MP BETA3	Y	.002	3.25
19	MP BETA3	X	.003	4.75
20	MP BETA3	X	.003	3.25
21	MP GAMMA3	Y	.003	4.75
22	MP GAMMA3	Y	.003	3.25
23	MP GAMMA3	X	.006	4.75
24	MP GAMMA3	X	.006	3.25
25	MP ALPHA2	Y	.004	7
26	MP ALPHA2	Y	.004	1
27	MP ALPHA2	X	.007	7
28	MP ALPHA2	X	.007	1
29	MP BETA2	Y	.005	7
30	MP BETA2	Y	.005	1
31	MP BETA2	X	.009	7
32	MP BETA2	X	.009	1
33	MP GAMMA2	Y	.01	7
34	MP GAMMA2	Y	.01	1

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
35	MP GAMMA2	X	.017	7
36	MP GAMMA2	X	.017	1
37	MP ALPHA1	Y	.002	4
38	MP ALPHA1	X	.004	4
39	MP BETA1	Y	.002	4
40	MP BETA1	X	.004	4
41	MP GAMMA1	Y	.003	4
42	MP GAMMA1	X	.004	4
43	MP ALPHA2	Y	.002	4
44	MP ALPHA2	X	.004	4
45	MP BETA2	Y	.002	4
46	MP BETA2	X	.004	4
47	MP GAMMA2	Y	.003	4
48	MP GAMMA2	X	.006	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	X	.002	5.75
2	MP ALPHA1	X	.002	2.25
3	MP BETA1	X	.005	5.75
4	MP BETA1	X	.005	2.25
5	MP GAMMA1	X	.005	5.75
6	MP GAMMA1	X	.005	2.25
7	MP ALPHA3	X	.003	4.75
8	MP ALPHA3	X	.003	3.25
9	MP BETA3	X	.006	4.75
10	MP BETA3	X	.006	3.25
11	MP GAMMA3	X	.006	4.75
12	MP GAMMA3	X	.006	3.25
13	MP ALPHA2	X	.007	7
14	MP ALPHA2	X	.007	1
15	MP BETA2	X	.016	7
16	MP BETA2	X	.016	1
17	MP GAMMA2	X	.016	7
18	MP GAMMA2	X	.016	1
19	MP ALPHA1	X	.004	4
20	MP BETA1	X	.005	4
21	MP GAMMA1	X	.005	4
22	MP ALPHA2	X	.003	4
23	MP BETA2	X	.006	4
24	MP GAMMA2	X	.006	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	-.002	5.75
2	MP ALPHA1	Y	-.002	2.25
3	MP ALPHA1	X	.003	5.75
4	MP ALPHA1	X	.003	2.25
5	MP BETA1	Y	-.003	5.75
6	MP BETA1	Y	-.003	2.25
7	MP BETA1	X	.005	5.75
8	MP BETA1	X	.005	2.25
9	MP GAMMA1	Y	-.002	5.75
10	MP GAMMA1	Y	-.002	2.25
11	MP GAMMA1	X	.003	5.75
12	MP GAMMA1	X	.003	2.25

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
13	MP ALPHA3	Y	-.002	4.75
14	MP ALPHA3	Y	-.002	3.25
15	MP ALPHA3	X	.004	4.75
16	MP ALPHA3	X	.004	3.25
17	MP BETA3	Y	-.003	4.75
18	MP BETA3	Y	-.003	3.25
19	MP BETA3	X	.006	4.75
20	MP BETA3	X	.006	3.25
21	MP GAMMA3	Y	-.002	4.75
22	MP GAMMA3	Y	-.002	3.25
23	MP GAMMA3	X	.003	4.75
24	MP GAMMA3	X	.003	3.25
25	MP ALPHA2	Y	-.006	7
26	MP ALPHA2	Y	-.006	1
27	MP ALPHA2	X	.01	7
28	MP ALPHA2	X	.01	1
29	MP BETA2	Y	-.01	7
30	MP BETA2	Y	-.01	1
31	MP BETA2	X	.017	7
32	MP BETA2	X	.017	1
33	MP GAMMA2	Y	-.005	7
34	MP GAMMA2	Y	-.005	1
35	MP GAMMA2	X	.009	7
36	MP GAMMA2	X	.009	1
37	MP ALPHA1	Y	-.002	4
38	MP ALPHA1	X	.004	4
39	MP BETA1	Y	-.003	4
40	MP BETA1	X	.004	4
41	MP GAMMA1	Y	-.002	4
42	MP GAMMA1	X	.004	4
43	MP ALPHA2	Y	-.002	4
44	MP ALPHA2	X	.004	4
45	MP BETA2	Y	-.003	4
46	MP BETA2	X	.006	4
47	MP GAMMA2	Y	-.002	4
48	MP GAMMA2	X	.004	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	-.005	5.75
2	MP ALPHA1	Y	-.005	2.25
3	MP ALPHA1	X	.003	5.75
4	MP ALPHA1	X	.003	2.25
5	MP BETA1	Y	-.004	5.75
6	MP BETA1	Y	-.004	2.25
7	MP BETA1	X	.002	5.75
8	MP BETA1	X	.002	2.25
9	MP GAMMA1	Y	-.002	5.75
10	MP GAMMA1	Y	-.002	2.25
11	MP GAMMA1	X	.001	5.75
12	MP GAMMA1	X	.001	2.25
13	MP ALPHA3	Y	-.006	4.75
14	MP ALPHA3	Y	-.006	3.25
15	MP ALPHA3	X	.003	4.75
16	MP ALPHA3	X	.003	3.25
17	MP BETA3	Y	-.005	4.75

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
18	MP BETA3	Y	-.005	3.25
19	MP BETA3	X	.003	4.75
20	MP BETA3	X	.003	3.25
21	MP GAMMA3	Y	-.002	4.75
22	MP GAMMA3	Y	-.002	3.25
23	MP GAMMA3	X	.001	4.75
24	MP GAMMA3	X	.001	3.25
25	MP ALPHA2	Y	-.015	7
26	MP ALPHA2	Y	-.015	1
27	MP ALPHA2	X	.009	7
28	MP ALPHA2	X	.009	1
29	MP BETA2	Y	-.014	7
30	MP BETA2	Y	-.014	1
31	MP BETA2	X	.008	7
32	MP BETA2	X	.008	1
33	MP GAMMA2	Y	-.006	7
34	MP GAMMA2	Y	-.006	1
35	MP GAMMA2	X	.003	7
36	MP GAMMA2	X	.003	1
37	MP ALPHA1	Y	-.004	4
38	MP ALPHA1	X	.002	4
39	MP BETA1	Y	-.004	4
40	MP BETA1	X	.002	4
41	MP GAMMA1	Y	-.003	4
42	MP GAMMA1	X	.002	4
43	MP ALPHA2	Y	-.005	4
44	MP ALPHA2	X	.003	4
45	MP BETA2	Y	-.005	4
46	MP BETA2	X	.003	4
47	MP GAMMA2	Y	-.003	4
48	MP GAMMA2	X	.002	4

Member Point Loads (BLC 27 : Ice Dead Load)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Z	-.044	5.75
2	MP ALPHA1	Z	-.044	2.25
3	MP BETA1	Z	-.044	5.75
4	MP BETA1	Z	-.044	2.25
5	MP GAMMA1	Z	-.044	5.75
6	MP GAMMA1	Z	-.044	2.25
7	MP ALPHA3	Z	-.051	4.75
8	MP ALPHA3	Z	-.051	3.25
9	MP BETA3	Z	-.051	4.75
10	MP BETA3	Z	-.051	3.25
11	MP GAMMA3	Z	-.051	4.75
12	MP GAMMA3	Z	-.051	3.25
13	MP ALPHA2	Z	-.142	7
14	MP ALPHA2	Z	-.142	1
15	MP BETA2	Z	-.142	7
16	MP BETA2	Z	-.142	1
17	MP GAMMA2	Z	-.142	7
18	MP GAMMA2	Z	-.142	1
19	MP ALPHA1	Z	-.058	4
20	MP BETA1	Z	-.058	4
21	MP GAMMA1	Z	-.058	4
22	MP ALPHA2	Z	-.058	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
23	MP BETA2	Z	-.058	4
24	MP GAMMA2	Z	-.058	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	-.018	5.75
2	MP ALPHA1	Y	-.018	2.25
3	MP BETA1	Y	-.011	5.75
4	MP BETA1	Y	-.011	2.25
5	MP GAMMA1	Y	-.011	5.75
6	MP GAMMA1	Y	-.011	2.25
7	MP ALPHA3	Y	-.02	4.75
8	MP ALPHA3	Y	-.02	3.25
9	MP BETA3	Y	-.012	4.75
10	MP BETA3	Y	-.012	3.25
11	MP GAMMA3	Y	-.012	4.75
12	MP GAMMA3	Y	-.012	3.25
13	MP ALPHA2	Y	-.052	7
14	MP ALPHA2	Y	-.052	1
15	MP BETA2	Y	-.03	7
16	MP BETA2	Y	-.03	1
17	MP GAMMA2	Y	-.03	7
18	MP GAMMA2	Y	-.03	1
19	MP ALPHA1	Y	-.011	4
20	MP BETA1	Y	-.009	4
21	MP GAMMA1	Y	-.009	4
22	MP ALPHA2	Y	-.014	4
23	MP BETA2	Y	-.009	4
24	MP GAMMA2	Y	-.009	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	-.011	5.75
2	MP ALPHA1	Y	-.011	2.25
3	MP ALPHA1	X	-.006	5.75
4	MP ALPHA1	X	-.006	2.25
5	MP BETA1	Y	-.008	5.75
6	MP BETA1	Y	-.008	2.25
7	MP BETA1	X	-.004	5.75
8	MP BETA1	X	-.004	2.25
9	MP GAMMA1	Y	-.014	5.75
10	MP GAMMA1	Y	-.014	2.25
11	MP GAMMA1	X	-.008	5.75
12	MP GAMMA1	X	-.008	2.25
13	MP ALPHA3	Y	-.012	4.75
14	MP ALPHA3	Y	-.012	3.25
15	MP ALPHA3	X	-.007	4.75
16	MP ALPHA3	X	-.007	3.25
17	MP BETA3	Y	-.008	4.75
18	MP BETA3	Y	-.008	3.25
19	MP BETA3	X	-.005	4.75
20	MP BETA3	X	-.005	3.25
21	MP GAMMA3	Y	-.015	4.75
22	MP GAMMA3	Y	-.015	3.25
23	MP GAMMA3	X	-.009	4.75
24	MP GAMMA3	X	-.009	3.25

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
25	MP ALPHA2	Y	-.032	7
26	MP ALPHA2	Y	-.032	1
27	MP ALPHA2	X	-.019	7
28	MP ALPHA2	X	-.019	1
29	MP BETA2	Y	-.02	7
30	MP BETA2	Y	-.02	1
31	MP BETA2	X	-.011	7
32	MP BETA2	X	-.011	1
33	MP GAMMA2	Y	-.04	7
34	MP GAMMA2	Y	-.04	1
35	MP GAMMA2	X	-.023	7
36	MP GAMMA2	X	-.023	1
37	MP ALPHA1	Y	-.009	4
38	MP ALPHA1	X	-.005	4
39	MP BETA1	Y	-.008	4
40	MP BETA1	X	-.004	4
41	MP GAMMA1	Y	-.009	4
42	MP GAMMA1	X	-.005	4
43	MP ALPHA2	Y	-.011	4
44	MP ALPHA2	X	-.006	4
45	MP BETA2	Y	-.007	4
46	MP BETA2	X	-.004	4
47	MP GAMMA2	Y	-.011	4
48	MP GAMMA2	X	-.006	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	-.004	5.75
2	MP ALPHA1	Y	-.004	2.25
3	MP ALPHA1	X	-.008	5.75
4	MP ALPHA1	X	-.008	2.25
5	MP BETA1	Y	-.006	5.75
6	MP BETA1	Y	-.006	2.25
7	MP BETA1	X	-.01	5.75
8	MP BETA1	X	-.01	2.25
9	MP GAMMA1	Y	-.009	5.75
10	MP GAMMA1	Y	-.009	2.25
11	MP GAMMA1	X	-.016	5.75
12	MP GAMMA1	X	-.016	2.25
13	MP ALPHA3	Y	-.005	4.75
14	MP ALPHA3	Y	-.005	3.25
15	MP ALPHA3	X	-.008	4.75
16	MP ALPHA3	X	-.008	3.25
17	MP BETA3	Y	-.006	4.75
18	MP BETA3	Y	-.006	3.25
19	MP BETA3	X	-.011	4.75
20	MP BETA3	X	-.011	3.25
21	MP GAMMA3	Y	-.01	4.75
22	MP GAMMA3	Y	-.01	3.25
23	MP GAMMA3	X	-.018	4.75
24	MP GAMMA3	X	-.018	3.25
25	MP ALPHA2	Y	-.012	7
26	MP ALPHA2	Y	-.012	1
27	MP ALPHA2	X	-.02	7
28	MP ALPHA2	X	-.02	1
29	MP BETA2	Y	-.015	7

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
30	MP BETA2	Y	-.015	1
31	MP BETA2	X	-.026	7
32	MP BETA2	X	-.026	1
33	MP GAMMA2	Y	-.027	7
34	MP GAMMA2	Y	-.027	1
35	MP GAMMA2	X	-.047	7
36	MP GAMMA2	X	-.047	1
37	MP ALPHA1	Y	-.005	4
38	MP ALPHA1	X	-.008	4
39	MP BETA1	Y	-.005	4
40	MP BETA1	X	-.008	4
41	MP GAMMA1	Y	-.005	4
42	MP GAMMA1	X	-.009	4
43	MP ALPHA2	Y	-.005	4
44	MP ALPHA2	X	-.008	4
45	MP BETA2	Y	-.005	4
46	MP BETA2	X	-.008	4
47	MP GAMMA2	Y	-.007	4
48	MP GAMMA2	X	-.012	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	X	-.009	5.75
2	MP ALPHA1	X	-.009	2.25
3	MP BETA1	X	-.016	5.75
4	MP BETA1	X	-.016	2.25
5	MP GAMMA1	X	-.016	5.75
6	MP GAMMA1	X	-.016	2.25
7	MP ALPHA3	X	-.01	4.75
8	MP ALPHA3	X	-.01	3.25
9	MP BETA3	X	-.018	4.75
10	MP BETA3	X	-.018	3.25
11	MP GAMMA3	X	-.018	4.75
12	MP GAMMA3	X	-.018	3.25
13	MP ALPHA2	X	-.024	7
14	MP ALPHA2	X	-.024	1
15	MP BETA2	X	-.046	7
16	MP BETA2	X	-.046	1
17	MP GAMMA2	X	-.046	7
18	MP GAMMA2	X	-.046	1
19	MP ALPHA1	X	-.009	4
20	MP BETA1	X	-.01	4
21	MP GAMMA1	X	-.01	4
22	MP ALPHA2	X	-.008	4
23	MP BETA2	X	-.012	4
24	MP GAMMA2	X	-.012	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	.007	5.75
2	MP ALPHA1	Y	.007	2.25
3	MP ALPHA1	X	-.012	5.75
4	MP ALPHA1	X	-.012	2.25
5	MP BETA1	Y	.009	5.75
6	MP BETA1	Y	.009	2.25
7	MP BETA1	X	-.016	5.75

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
8	MP BETA1	X	-.016	2.25
9	MP GAMMA1	Y	.006	5.75
10	MP GAMMA1	Y	.006	2.25
11	MP GAMMA1	X	-.01	5.75
12	MP GAMMA1	X	-.01	2.25
13	MP ALPHA3	Y	.008	4.75
14	MP ALPHA3	Y	.008	3.25
15	MP ALPHA3	X	-.013	4.75
16	MP ALPHA3	X	-.013	3.25
17	MP BETA3	Y	.01	4.75
18	MP BETA3	Y	.01	3.25
19	MP BETA3	X	-.018	4.75
20	MP BETA3	X	-.018	3.25
21	MP GAMMA3	Y	.006	4.75
22	MP GAMMA3	Y	.006	3.25
23	MP GAMMA3	X	-.011	4.75
24	MP GAMMA3	X	-.011	3.25
25	MP ALPHA2	Y	.02	7
26	MP ALPHA2	Y	.02	1
27	MP ALPHA2	X	-.034	7
28	MP ALPHA2	X	-.034	1
29	MP BETA2	Y	.027	7
30	MP BETA2	Y	.027	1
31	MP BETA2	X	-.047	7
32	MP BETA2	X	-.047	1
33	MP GAMMA2	Y	.015	7
34	MP GAMMA2	Y	.015	1
35	MP GAMMA2	X	-.026	7
36	MP GAMMA2	X	-.026	1
37	MP ALPHA1	Y	.005	4
38	MP ALPHA1	X	-.008	4
39	MP BETA1	Y	.005	4
40	MP BETA1	X	-.009	4
41	MP GAMMA1	Y	.005	4
42	MP GAMMA1	X	-.008	4
43	MP ALPHA2	Y	.005	4
44	MP ALPHA2	X	-.008	4
45	MP BETA2	Y	.007	4
46	MP BETA2	X	-.012	4
47	MP GAMMA2	Y	.005	4
48	MP GAMMA2	X	-.008	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	.016	5.75
2	MP ALPHA1	Y	.016	2.25
3	MP ALPHA1	X	-.009	5.75
4	MP ALPHA1	X	-.009	2.25
5	MP BETA1	Y	.014	5.75
6	MP BETA1	Y	.014	2.25
7	MP BETA1	X	-.008	5.75
8	MP BETA1	X	-.008	2.25
9	MP GAMMA1	Y	.008	5.75
10	MP GAMMA1	Y	.008	2.25
11	MP GAMMA1	X	-.004	5.75
12	MP GAMMA1	X	-.004	2.25

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
13	MP ALPHA3	Y	.018	4.75
14	MP ALPHA3	Y	.018	3.25
15	MP ALPHA3	X	-.01	4.75
16	MP ALPHA3	X	-.01	3.25
17	MP BETA3	Y	.015	4.75
18	MP BETA3	Y	.015	3.25
19	MP BETA3	X	-.009	4.75
20	MP BETA3	X	-.009	3.25
21	MP GAMMA3	Y	.008	4.75
22	MP GAMMA3	Y	.008	3.25
23	MP GAMMA3	X	-.005	4.75
24	MP GAMMA3	X	-.005	3.25
25	MP ALPHA2	Y	.046	7
26	MP ALPHA2	Y	.046	1
27	MP ALPHA2	X	-.027	7
28	MP ALPHA2	X	-.027	1
29	MP BETA2	Y	.04	7
30	MP BETA2	Y	.04	1
31	MP BETA2	X	-.023	7
32	MP BETA2	X	-.023	1
33	MP GAMMA2	Y	.02	7
34	MP GAMMA2	Y	.02	1
35	MP GAMMA2	X	-.011	7
36	MP GAMMA2	X	-.011	1
37	MP ALPHA1	Y	.009	4
38	MP ALPHA1	X	-.005	4
39	MP BETA1	Y	.009	4
40	MP BETA1	X	-.005	4
41	MP GAMMA1	Y	.008	4
42	MP GAMMA1	X	-.004	4
43	MP ALPHA2	Y	.011	4
44	MP ALPHA2	X	-.006	4
45	MP BETA2	Y	.011	4
46	MP BETA2	X	-.006	4
47	MP GAMMA2	Y	.007	4
48	MP GAMMA2	X	-.004	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	.018	5.75
2	MP ALPHA1	Y	.018	2.25
3	MP BETA1	Y	.011	5.75
4	MP BETA1	Y	.011	2.25
5	MP GAMMA1	Y	.011	5.75
6	MP GAMMA1	Y	.011	2.25
7	MP ALPHA3	Y	.02	4.75
8	MP ALPHA3	Y	.02	3.25
9	MP BETA3	Y	.012	4.75
10	MP BETA3	Y	.012	3.25
11	MP GAMMA3	Y	.012	4.75
12	MP GAMMA3	Y	.012	3.25
13	MP ALPHA2	Y	.052	7
14	MP ALPHA2	Y	.052	1
15	MP BETA2	Y	.03	7
16	MP BETA2	Y	.03	1
17	MP GAMMA2	Y	.03	7

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
18	MP GAMMA2	Y	.03	1
19	MP ALPHA1	Y	.011	4
20	MP BETA1	Y	.009	4
21	MP GAMMA1	Y	.009	4
22	MP ALPHA2	Y	.014	4
23	MP BETA2	Y	.009	4
24	MP GAMMA2	Y	.009	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	.011	5.75
2	MP ALPHA1	Y	.011	2.25
3	MP ALPHA1	X	.006	5.75
4	MP ALPHA1	X	.006	2.25
5	MP BETA1	Y	.008	5.75
6	MP BETA1	Y	.008	2.25
7	MP BETA1	X	.004	5.75
8	MP BETA1	X	.004	2.25
9	MP GAMMA1	Y	.014	5.75
10	MP GAMMA1	Y	.014	2.25
11	MP GAMMA1	X	.008	5.75
12	MP GAMMA1	X	.008	2.25
13	MP ALPHA3	Y	.012	4.75
14	MP ALPHA3	Y	.012	3.25
15	MP ALPHA3	X	.007	4.75
16	MP ALPHA3	X	.007	3.25
17	MP BETA3	Y	.008	4.75
18	MP BETA3	Y	.008	3.25
19	MP BETA3	X	.005	4.75
20	MP BETA3	X	.005	3.25
21	MP GAMMA3	Y	.015	4.75
22	MP GAMMA3	Y	.015	3.25
23	MP GAMMA3	X	.009	4.75
24	MP GAMMA3	X	.009	3.25
25	MP ALPHA2	Y	.032	7
26	MP ALPHA2	Y	.032	1
27	MP ALPHA2	X	.019	7
28	MP ALPHA2	X	.019	1
29	MP BETA2	Y	.02	7
30	MP BETA2	Y	.02	1
31	MP BETA2	X	.011	7
32	MP BETA2	X	.011	1
33	MP GAMMA2	Y	.04	7
34	MP GAMMA2	Y	.04	1
35	MP GAMMA2	X	.023	7
36	MP GAMMA2	X	.023	1
37	MP ALPHA1	Y	.009	4
38	MP ALPHA1	X	.005	4
39	MP BETA1	Y	.008	4
40	MP BETA1	X	.004	4
41	MP GAMMA1	Y	.009	4
42	MP GAMMA1	X	.005	4
43	MP ALPHA2	Y	.011	4
44	MP ALPHA2	X	.006	4
45	MP BETA2	Y	.007	4
46	MP BETA2	X	.004	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
47	MP GAMMA2	Y	.011	4
48	MP GAMMA2	X	.006	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	.004	5.75
2	MP ALPHA1	Y	.004	2.25
3	MP ALPHA1	X	.008	5.75
4	MP ALPHA1	X	.008	2.25
5	MP BETA1	Y	.006	5.75
6	MP BETA1	Y	.006	2.25
7	MP BETA1	X	.01	5.75
8	MP BETA1	X	.01	2.25
9	MP GAMMA1	Y	.009	5.75
10	MP GAMMA1	Y	.009	2.25
11	MP GAMMA1	X	.016	5.75
12	MP GAMMA1	X	.016	2.25
13	MP ALPHA3	Y	.005	4.75
14	MP ALPHA3	Y	.005	3.25
15	MP ALPHA3	X	.008	4.75
16	MP ALPHA3	X	.008	3.25
17	MP BETA3	Y	.006	4.75
18	MP BETA3	Y	.006	3.25
19	MP BETA3	X	.011	4.75
20	MP BETA3	X	.011	3.25
21	MP GAMMA3	Y	.01	4.75
22	MP GAMMA3	Y	.01	3.25
23	MP GAMMA3	X	.018	4.75
24	MP GAMMA3	X	.018	3.25
25	MP ALPHA2	Y	.012	7
26	MP ALPHA2	Y	.012	1
27	MP ALPHA2	X	.02	7
28	MP ALPHA2	X	.02	1
29	MP BETA2	Y	.015	7
30	MP BETA2	Y	.015	1
31	MP BETA2	X	.026	7
32	MP BETA2	X	.026	1
33	MP GAMMA2	Y	.027	7
34	MP GAMMA2	Y	.027	1
35	MP GAMMA2	X	.047	7
36	MP GAMMA2	X	.047	1
37	MP ALPHA1	Y	.005	4
38	MP ALPHA1	X	.008	4
39	MP BETA1	Y	.005	4
40	MP BETA1	X	.008	4
41	MP GAMMA1	Y	.005	4
42	MP GAMMA1	X	.009	4
43	MP ALPHA2	Y	.005	4
44	MP ALPHA2	X	.008	4
45	MP BETA2	Y	.005	4
46	MP BETA2	X	.008	4
47	MP GAMMA2	Y	.007	4
48	MP GAMMA2	X	.012	4

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

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

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	X	.009	5.75
2	MP ALPHA1	X	.009	2.25
3	MP BETA1	X	.016	5.75
4	MP BETA1	X	.016	2.25
5	MP GAMMA1	X	.016	5.75
6	MP GAMMA1	X	.016	2.25
7	MP ALPHA3	X	.01	4.75
8	MP ALPHA3	X	.01	3.25
9	MP BETA3	X	.018	4.75
10	MP BETA3	X	.018	3.25
11	MP GAMMA3	X	.018	4.75
12	MP GAMMA3	X	.018	3.25
13	MP ALPHA2	X	.024	7
14	MP ALPHA2	X	.024	1
15	MP BETA2	X	.046	7
16	MP BETA2	X	.046	1
17	MP GAMMA2	X	.046	7
18	MP GAMMA2	X	.046	1
19	MP ALPHA1	X	.009	4
20	MP BETA1	X	.01	4
21	MP GAMMA1	X	.01	4
22	MP ALPHA2	X	.008	4
23	MP BETA2	X	.012	4
24	MP GAMMA2	X	.012	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	-.007	5.75
2	MP ALPHA1	Y	-.007	2.25
3	MP ALPHA1	X	.012	5.75
4	MP ALPHA1	X	.012	2.25
5	MP BETA1	Y	-.009	5.75
6	MP BETA1	Y	-.009	2.25
7	MP BETA1	X	.016	5.75
8	MP BETA1	X	.016	2.25
9	MP GAMMA1	Y	-.006	5.75
10	MP GAMMA1	Y	-.006	2.25
11	MP GAMMA1	X	.01	5.75
12	MP GAMMA1	X	.01	2.25
13	MP ALPHA3	Y	-.008	4.75
14	MP ALPHA3	Y	-.008	3.25
15	MP ALPHA3	X	.013	4.75
16	MP ALPHA3	X	.013	3.25
17	MP BETA3	Y	-.01	4.75
18	MP BETA3	Y	-.01	3.25
19	MP BETA3	X	.018	4.75
20	MP BETA3	X	.018	3.25
21	MP GAMMA3	Y	-.006	4.75
22	MP GAMMA3	Y	-.006	3.25
23	MP GAMMA3	X	.011	4.75
24	MP GAMMA3	X	.011	3.25
25	MP ALPHA2	Y	-.02	7
26	MP ALPHA2	Y	-.02	1
27	MP ALPHA2	X	.034	7
28	MP ALPHA2	X	.034	1
29	MP BETA2	Y	-.027	7

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
30	MP BETA2	Y	-.027	1
31	MP BETA2	X	.047	7
32	MP BETA2	X	.047	1
33	MP GAMMA2	Y	-.015	7
34	MP GAMMA2	Y	-.015	1
35	MP GAMMA2	X	.026	7
36	MP GAMMA2	X	.026	1
37	MP ALPHA1	Y	-.005	4
38	MP ALPHA1	X	.008	4
39	MP BETA1	Y	-.005	4
40	MP BETA1	X	.009	4
41	MP GAMMA1	Y	-.005	4
42	MP GAMMA1	X	.008	4
43	MP ALPHA2	Y	-.005	4
44	MP ALPHA2	X	.008	4
45	MP BETA2	Y	-.007	4
46	MP BETA2	X	.012	4
47	MP GAMMA2	Y	-.005	4
48	MP GAMMA2	X	.008	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	-.016	5.75
2	MP ALPHA1	Y	-.016	2.25
3	MP ALPHA1	X	.009	5.75
4	MP ALPHA1	X	.009	2.25
5	MP BETA1	Y	-.014	5.75
6	MP BETA1	Y	-.014	2.25
7	MP BETA1	X	.008	5.75
8	MP BETA1	X	.008	2.25
9	MP GAMMA1	Y	-.008	5.75
10	MP GAMMA1	Y	-.008	2.25
11	MP GAMMA1	X	.004	5.75
12	MP GAMMA1	X	.004	2.25
13	MP ALPHA3	Y	-.018	4.75
14	MP ALPHA3	Y	-.018	3.25
15	MP ALPHA3	X	.01	4.75
16	MP ALPHA3	X	.01	3.25
17	MP BETA3	Y	-.015	4.75
18	MP BETA3	Y	-.015	3.25
19	MP BETA3	X	.009	4.75
20	MP BETA3	X	.009	3.25
21	MP GAMMA3	Y	-.008	4.75
22	MP GAMMA3	Y	-.008	3.25
23	MP GAMMA3	X	.005	4.75
24	MP GAMMA3	X	.005	3.25
25	MP ALPHA2	Y	-.046	7
26	MP ALPHA2	Y	-.046	1
27	MP ALPHA2	X	.027	7
28	MP ALPHA2	X	.027	1
29	MP BETA2	Y	-.04	7
30	MP BETA2	Y	-.04	1
31	MP BETA2	X	.023	7
32	MP BETA2	X	.023	1
33	MP GAMMA2	Y	-.02	7
34	MP GAMMA2	Y	-.02	1

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
35	MP GAMMA2	X	.011	7
36	MP GAMMA2	X	.011	1
37	MP ALPHA1	Y	-.009	4
38	MP ALPHA1	X	.005	4
39	MP BETA1	Y	-.009	4
40	MP BETA1	X	.005	4
41	MP GAMMA1	Y	-.008	4
42	MP GAMMA1	X	.004	4
43	MP ALPHA2	Y	-.011	4
44	MP ALPHA2	X	.006	4
45	MP BETA2	Y	-.011	4
46	MP BETA2	X	.006	4
47	MP GAMMA2	Y	-.007	4
48	MP GAMMA2	X	.004	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	X	-.002	5.75
2	MP ALPHA1	X	-.002	2.25
3	MP BETA1	X	-.002	5.75
4	MP BETA1	X	-.002	2.25
5	MP GAMMA1	X	-.002	5.75
6	MP GAMMA1	X	-.002	2.25
7	MP ALPHA3	X	-.005	4.75
8	MP ALPHA3	X	-.005	3.25
9	MP BETA3	X	-.005	4.75
10	MP BETA3	X	-.005	3.25
11	MP GAMMA3	X	-.005	4.75
12	MP GAMMA3	X	-.005	3.25
13	MP ALPHA2	X	-.008	7
14	MP ALPHA2	X	-.008	1
15	MP BETA2	X	-.008	7
16	MP BETA2	X	-.008	1
17	MP GAMMA2	X	-.008	7
18	MP GAMMA2	X	-.008	1
19	MP ALPHA1	X	-.011	4
20	MP BETA1	X	-.011	4
21	MP GAMMA1	X	-.011	4
22	MP ALPHA2	X	-.008	4
23	MP BETA2	X	-.008	4
24	MP GAMMA2	X	-.008	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	-.002	5.75
2	MP ALPHA1	Y	-.002	2.25
3	MP BETA1	Y	-.002	5.75
4	MP BETA1	Y	-.002	2.25
5	MP GAMMA1	Y	-.002	5.75
6	MP GAMMA1	Y	-.002	2.25
7	MP ALPHA3	Y	-.005	4.75
8	MP ALPHA3	Y	-.005	3.25
9	MP BETA3	Y	-.005	4.75
10	MP BETA3	Y	-.005	3.25
11	MP GAMMA3	Y	-.005	4.75
12	MP GAMMA3	Y	-.005	3.25

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
13	MP ALPHA2	Y	-.008	7
14	MP ALPHA2	Y	-.008	1
15	MP BETA2	Y	-.008	7
16	MP BETA2	Y	-.008	1
17	MP GAMMA2	Y	-.008	7
18	MP GAMMA2	Y	-.008	1
19	MP ALPHA1	Y	-.011	4
20	MP BETA1	Y	-.011	4
21	MP GAMMA1	Y	-.011	4
22	MP ALPHA2	Y	-.008	4
23	MP BETA2	Y	-.008	4
24	MP GAMMA2	Y	-.008	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Z	-.000693	5.75
2	MP ALPHA1	Z	-.000693	2.25
3	MP BETA1	Z	-.000693	5.75
4	MP BETA1	Z	-.000693	2.25
5	MP GAMMA1	Z	-.000693	5.75
6	MP GAMMA1	Z	-.000693	2.25
7	MP ALPHA3	Z	-.002	4.75
8	MP ALPHA3	Z	-.002	3.25
9	MP BETA3	Z	-.002	4.75
10	MP BETA3	Z	-.002	3.25
11	MP GAMMA3	Z	-.002	4.75
12	MP GAMMA3	Z	-.002	3.25
13	MP ALPHA2	Z	-.003	7
14	MP ALPHA2	Z	-.003	1
15	MP BETA2	Z	-.003	7
16	MP BETA2	Z	-.003	1
17	MP GAMMA2	Z	-.003	7
18	MP GAMMA2	Z	-.003	1
19	MP ALPHA1	Z	-.005	4
20	MP BETA1	Z	-.005	4
21	MP GAMMA1	Z	-.005	4
22	MP ALPHA2	Z	-.003	4
23	MP BETA2	Z	-.003	4
24	MP GAMMA2	Z	-.003	4

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	CONNANGLE1	PY	-.009	-.009	0	0
2	CONNANGLE2	PY	-.009	-.009	0	0
3	CONNANGLE3	PY	-.009	-.009	0	0
4	CORNER1	PY	-.015	-.015	0	0
5	CORNER2	PY	-.015	-.015	0	0
6	CORNER3	PY	-.015	-.015	0	0
7	FACE1	PY	-.015	-.015	0	0
8	FACE2	PY	-.015	-.015	0	0
9	FACE3	PY	-.031	-.031	0	0
10	FACE4	PY	-.031	-.031	0	0
11	FACE5	PY	-.031	-.031	0	0
12	FACE6	PY	-.031	-.031	0	0
13	LADDER1	PY	-.005	-.005	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,%]
14	LADDER2	PY	-.005	-.005	0	0
15	LADDERPLATE1	PY	-.012	-.012	0	0
16	LADDERPLATE2	PY	-.012	-.012	0	0
17	M PIPE1	PY	-.003	-.003	0	0
18	M PIPE2	PY	-.003	-.003	0	0
19	M PIPE3	PY	-.003	-.003	0	0
20	M RAIL1	PY	-.003	-.003	0	0
21	M RAIL2	PY	-.006	-.006	0	0
22	M RAIL3	PY	-.006	-.006	0	0
23	MP ALPHA1	PY	-.009	-.009	0	0
24	MP ALPHA2	PY	-.009	-.009	0	0
25	MP ALPHA3	PY	-.009	-.009	0	0
26	MP BETA1	PY	-.009	-.009	0	0
27	MP BETA2	PY	-.009	-.009	0	0
28	MP BETA3	PY	-.009	-.009	0	0
29	MP GAMMA1	PY	-.009	-.009	0	0
30	MP GAMMA2	PY	-.009	-.009	0	0
31	MP GAMMA3	PY	-.009	-.009	0	0
32	RUNG1	PY	-.000728	-.000728	0	0
33	RUNG2	PY	-.000728	-.000728	0	0
34	RUNG3	PY	-.000728	-.000728	0	0
35	RUNG4	PY	-.000728	-.000728	0	0
36	RUNG5	PY	-.000728	-.000728	0	0
37	RUNG6	PY	-.000728	-.000728	0	0
38	RUNG7	PY	-.000728	-.000728	0	0
39	SO1	PY	-.006	-.006	0	0
40	SO2	PY	-.006	-.006	0	0
41	SO3	PY	-.006	-.006	0	0
42	SUPPORT1	PY	-.015	-.015	0	0
43	SUPPORT2	PY	-.015	-.015	0	0
44	R ANGLE1	PY	-.008	-.008	0	0
45	R ANGLE2	PY	-.008	-.008	0	0
46	R ANGLE3	PY	-.008	-.008	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	CONNANGLE1	PY	-.008	-.008	0	0
2	CONNANGLE2	PY	-.008	-.008	0	0
3	CONNANGLE3	PY	-.008	-.008	0	0
4	CORNER1	PY	-.013	-.013	0	0
5	CORNER2	PY	-.013	-.013	0	0
6	CORNER3	PY	-.013	-.013	0	0
7	FACE1	PY	-.013	-.013	0	0
8	FACE2	PY	-.013	-.013	0	0
9	FACE3	PY	-.027	-.027	0	0
10	FACE4	PY	-.027	-.027	0	0
11	FACE5	PY	-.027	-.027	0	0
12	FACE6	PY	-.027	-.027	0	0
13	LADDER1	PY	-.005	-.005	0	0
14	LADDER2	PY	-.005	-.005	0	0
15	LADDERPLATE1	PY	-.011	-.011	0	0
16	LADDERPLATE2	PY	-.011	-.011	0	0
17	M PIPE1	PY	-.002	-.002	0	0
18	M PIPE2	PY	-.002	-.002	0	0
19	M PIPE3	PY	-.002	-.002	0	0
20	M RAIL1	PY	-.002	-.002	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,%]
21	M RAIL2	PY	-.005	-.005	0	0
22	M RAIL3	PY	-.005	-.005	0	0
23	MP ALPHA1	PY	-.008	-.008	0	0
24	MP ALPHA2	PY	-.008	-.008	0	0
25	MP ALPHA3	PY	-.008	-.008	0	0
26	MP BETA1	PY	-.008	-.008	0	0
27	MP BETA2	PY	-.008	-.008	0	0
28	MP BETA3	PY	-.008	-.008	0	0
29	MP GAMMA1	PY	-.008	-.008	0	0
30	MP GAMMA2	PY	-.008	-.008	0	0
31	MP GAMMA3	PY	-.008	-.008	0	0
32	RUNG1	PY	-.00063	-.00063	0	0
33	RUNG2	PY	-.00063	-.00063	0	0
34	RUNG3	PY	-.00063	-.00063	0	0
35	RUNG4	PY	-.00063	-.00063	0	0
36	RUNG5	PY	-.00063	-.00063	0	0
37	RUNG6	PY	-.00063	-.00063	0	0
38	RUNG7	PY	-.00063	-.00063	0	0
39	SO1	PY	-.005	-.005	0	0
40	SO2	PY	-.005	-.005	0	0
41	SO3	PY	-.005	-.005	0	0
42	SUPPORT1	PY	-.013	-.013	0	0
43	SUPPORT2	PY	-.013	-.013	0	0
44	R ANGLE1	PY	-.007	-.007	0	0
45	R ANGLE2	PY	-.007	-.007	0	0
46	R ANGLE3	PY	-.007	-.007	0	0
47	CONNANGLE1	PX	-.005	-.005	0	0
48	CONNANGLE2	PX	-.005	-.005	0	0
49	CONNANGLE3	PX	-.005	-.005	0	0
50	CORNER1	PX	-.008	-.008	0	0
51	CORNER2	PX	-.008	-.008	0	0
52	CORNER3	PX	-.008	-.008	0	0
53	FACE1	PX	-.008	-.008	0	0
54	FACE2	PX	-.008	-.008	0	0
55	FACE3	PX	-.015	-.015	0	0
56	FACE4	PX	-.015	-.015	0	0
57	FACE5	PX	-.015	-.015	0	0
58	FACE6	PX	-.015	-.015	0	0
59	LADDER1	PX	-.003	-.003	0	0
60	LADDER2	PX	-.003	-.003	0	0
61	LADDERPLATE1	PX	-.006	-.006	0	0
62	LADDERPLATE2	PX	-.006	-.006	0	0
63	M PIPE1	PX	-.001	-.001	0	0
64	M PIPE2	PX	-.001	-.001	0	0
65	M PIPE3	PX	-.001	-.001	0	0
66	M RAIL1	PX	-.001	-.001	0	0
67	M RAIL2	PX	-.003	-.003	0	0
68	M RAIL3	PX	-.003	-.003	0	0
69	MP ALPHA1	PX	-.004	-.004	0	0
70	MP ALPHA2	PX	-.004	-.004	0	0
71	MP ALPHA3	PX	-.004	-.004	0	0
72	MP BETA1	PX	-.004	-.004	0	0
73	MP BETA2	PX	-.004	-.004	0	0
74	MP BETA3	PX	-.004	-.004	0	0
75	MP GAMMA1	PX	-.004	-.004	0	0
76	MP GAMMA2	PX	-.004	-.004	0	0
77	MP GAMMA3	PX	-.004	-.004	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,%]
78	RUNG1	PX	-.000364	-.000364	0	0
79	RUNG2	PX	-.000364	-.000364	0	0
80	RUNG3	PX	-.000364	-.000364	0	0
81	RUNG4	PX	-.000364	-.000364	0	0
82	RUNG5	PX	-.000364	-.000364	0	0
83	RUNG6	PX	-.000364	-.000364	0	0
84	RUNG7	PX	-.000364	-.000364	0	0
85	SO1	PX	-.003	-.003	0	0
86	SO2	PX	-.003	-.003	0	0
87	SO3	PX	-.003	-.003	0	0
88	SUPPORT1	PX	-.008	-.008	0	0
89	SUPPORT2	PX	-.008	-.008	0	0
90	R ANGLE1	PX	-.004	-.004	0	0
91	R ANGLE2	PX	-.004	-.004	0	0
92	R ANGLE3	PX	-.004	-.004	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	CONNANGLE1	PY	-.005	-.005	0	0
2	CONNANGLE2	PY	-.005	-.005	0	0
3	CONNANGLE3	PY	-.005	-.005	0	0
4	CORNER1	PY	-.008	-.008	0	0
5	CORNER2	PY	-.008	-.008	0	0
6	CORNER3	PY	-.008	-.008	0	0
7	FACE1	PY	-.008	-.008	0	0
8	FACE2	PY	-.008	-.008	0	0
9	FACE3	PY	-.015	-.015	0	0
10	FACE4	PY	-.015	-.015	0	0
11	FACE5	PY	-.015	-.015	0	0
12	FACE6	PY	-.015	-.015	0	0
13	LADDER1	PY	-.003	-.003	0	0
14	LADDER2	PY	-.003	-.003	0	0
15	LADDERPLATE1	PY	-.006	-.006	0	0
16	LADDERPLATE2	PY	-.006	-.006	0	0
17	M PIPE1	PY	-.001	-.001	0	0
18	M PIPE2	PY	-.001	-.001	0	0
19	M PIPE3	PY	-.001	-.001	0	0
20	M RAIL1	PY	-.001	-.001	0	0
21	M RAIL2	PY	-.003	-.003	0	0
22	M RAIL3	PY	-.003	-.003	0	0
23	MP ALPHA1	PY	-.004	-.004	0	0
24	MP ALPHA2	PY	-.004	-.004	0	0
25	MP ALPHA3	PY	-.004	-.004	0	0
26	MP BETA1	PY	-.004	-.004	0	0
27	MP BETA2	PY	-.004	-.004	0	0
28	MP BETA3	PY	-.004	-.004	0	0
29	MP GAMMA1	PY	-.004	-.004	0	0
30	MP GAMMA2	PY	-.004	-.004	0	0
31	MP GAMMA3	PY	-.004	-.004	0	0
32	RUNG1	PY	-.000364	-.000364	0	0
33	RUNG2	PY	-.000364	-.000364	0	0
34	RUNG3	PY	-.000364	-.000364	0	0
35	RUNG4	PY	-.000364	-.000364	0	0
36	RUNG5	PY	-.000364	-.000364	0	0
37	RUNG6	PY	-.000364	-.000364	0	0
38	RUNG7	PY	-.000364	-.000364	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,%]
39	SO1	PY	-.003	-.003	0	0
40	SO2	PY	-.003	-.003	0	0
41	SO3	PY	-.003	-.003	0	0
42	SUPPORT1	PY	-.008	-.008	0	0
43	SUPPORT2	PY	-.008	-.008	0	0
44	R ANGLE1	PY	-.004	-.004	0	0
45	R ANGLE2	PY	-.004	-.004	0	0
46	R ANGLE3	PY	-.004	-.004	0	0
47	CONNANGLE1	PX	-.008	-.008	0	0
48	CONNANGLE2	PX	-.008	-.008	0	0
49	CONNANGLE3	PX	-.008	-.008	0	0
50	CORNER1	PX	-.013	-.013	0	0
51	CORNER2	PX	-.013	-.013	0	0
52	CORNER3	PX	-.013	-.013	0	0
53	FACE1	PX	-.013	-.013	0	0
54	FACE2	PX	-.013	-.013	0	0
55	FACE3	PX	-.027	-.027	0	0
56	FACE4	PX	-.027	-.027	0	0
57	FACE5	PX	-.027	-.027	0	0
58	FACE6	PX	-.027	-.027	0	0
59	LADDER1	PX	-.005	-.005	0	0
60	LADDER2	PX	-.005	-.005	0	0
61	LADDERPLATE1	PX	-.011	-.011	0	0
62	LADDERPLATE2	PX	-.011	-.011	0	0
63	M PIPE1	PX	-.002	-.002	0	0
64	M PIPE2	PX	-.002	-.002	0	0
65	M PIPE3	PX	-.002	-.002	0	0
66	M RAIL1	PX	-.002	-.002	0	0
67	M RAIL2	PX	-.005	-.005	0	0
68	M RAIL3	PX	-.005	-.005	0	0
69	MP ALPHA1	PX	-.008	-.008	0	0
70	MP ALPHA2	PX	-.008	-.008	0	0
71	MP ALPHA3	PX	-.008	-.008	0	0
72	MP BETA1	PX	-.008	-.008	0	0
73	MP BETA2	PX	-.008	-.008	0	0
74	MP BETA3	PX	-.008	-.008	0	0
75	MP GAMMA1	PX	-.008	-.008	0	0
76	MP GAMMA2	PX	-.008	-.008	0	0
77	MP GAMMA3	PX	-.008	-.008	0	0
78	RUNG1	PX	-.00063	-.00063	0	0
79	RUNG2	PX	-.00063	-.00063	0	0
80	RUNG3	PX	-.00063	-.00063	0	0
81	RUNG4	PX	-.00063	-.00063	0	0
82	RUNG5	PX	-.00063	-.00063	0	0
83	RUNG6	PX	-.00063	-.00063	0	0
84	RUNG7	PX	-.00063	-.00063	0	0
85	SO1	PX	-.005	-.005	0	0
86	SO2	PX	-.005	-.005	0	0
87	SO3	PX	-.005	-.005	0	0
88	SUPPORT1	PX	-.013	-.013	0	0
89	SUPPORT2	PX	-.013	-.013	0	0
90	R ANGLE1	PX	-.007	-.007	0	0
91	R ANGLE2	PX	-.007	-.007	0	0
92	R ANGLE3	PX	-.007	-.007	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,%]

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,%]
1	CONNANGLE1	PX	-.009	-.009	0	0
2	CONNANGLE2	PX	-.009	-.009	0	0
3	CONNANGLE3	PX	-.009	-.009	0	0
4	CORNER1	PX	-.015	-.015	0	0
5	CORNER2	PX	-.015	-.015	0	0
6	CORNER3	PX	-.015	-.015	0	0
7	FACE3	PX	-.015	-.015	0	0
8	FACE4	PX	-.015	-.015	0	0
9	FACE1	PX	-.031	-.031	0	0
10	FACE2	PX	-.031	-.031	0	0
11	FACE5	PX	-.031	-.031	0	0
12	FACE6	PX	-.031	-.031	0	0
13	LADDER1	PX	-.005	-.005	0	0
14	LADDER2	PX	-.005	-.005	0	0
15	LADDERPLATE1	PX	-.012	-.012	0	0
16	LADDERPLATE2	PX	-.012	-.012	0	0
17	M PIPE1	PX	-.003	-.003	0	0
18	M PIPE2	PX	-.003	-.003	0	0
19	M PIPE3	PX	-.003	-.003	0	0
20	M RAIL2	PX	-.003	-.003	0	0
21	M RAIL1	PX	-.006	-.006	0	0
22	M RAIL3	PX	-.006	-.006	0	0
23	MP ALPHA1	PX	-.009	-.009	0	0
24	MP ALPHA2	PX	-.009	-.009	0	0
25	MP ALPHA3	PX	-.009	-.009	0	0
26	MP BETA1	PX	-.009	-.009	0	0
27	MP BETA2	PX	-.009	-.009	0	0
28	MP BETA3	PX	-.009	-.009	0	0
29	MP GAMMA1	PX	-.009	-.009	0	0
30	MP GAMMA2	PX	-.009	-.009	0	0
31	MP GAMMA3	PX	-.009	-.009	0	0
32	RUNG1	PX	-.000728	-.000728	0	0
33	RUNG2	PX	-.000728	-.000728	0	0
34	RUNG3	PX	-.000728	-.000728	0	0
35	RUNG4	PX	-.000728	-.000728	0	0
36	RUNG5	PX	-.000728	-.000728	0	0
37	RUNG6	PX	-.000728	-.000728	0	0
38	RUNG7	PX	-.000728	-.000728	0	0
39	SO1	PX	-.006	-.006	0	0
40	SO2	PX	-.006	-.006	0	0
41	SO3	PX	-.006	-.006	0	0
42	SUPPORT1	PX	-.015	-.015	0	0
43	SUPPORT2	PX	-.015	-.015	0	0
44	R ANGLE1	PX	-.008	-.008	0	0
45	R ANGLE2	PX	-.008	-.008	0	0
46	R ANGLE3	PX	-.008	-.008	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	CONNANGLE1	PY	.005	.005	0	0
2	CONNANGLE2	PY	.005	.005	0	0
3	CONNANGLE3	PY	.005	.005	0	0
4	CORNER1	PY	.008	.008	0	0
5	CORNER2	PY	.008	.008	0	0
6	CORNER3	PY	.008	.008	0	0
7	FACE3	PY	.008	.008	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,%]
8	FACE4	PY	.008	.008	0	0
9	FACE1	PY	.015	.015	0	0
10	FACE2	PY	.015	.015	0	0
11	FACE5	PY	.015	.015	0	0
12	FACE6	PY	.015	.015	0	0
13	LADDER1	PY	.003	.003	0	0
14	LADDER2	PY	.003	.003	0	0
15	LADDERPLATE1	PY	.006	.006	0	0
16	LADDERPLATE2	PY	.006	.006	0	0
17	M PIPE1	PY	.001	.001	0	0
18	M PIPE2	PY	.001	.001	0	0
19	M PIPE3	PY	.001	.001	0	0
20	M RAIL2	PY	.001	.001	0	0
21	M RAIL1	PY	.003	.003	0	0
22	M RAIL3	PY	.003	.003	0	0
23	MP ALPHA1	PY	.004	.004	0	0
24	MP ALPHA2	PY	.004	.004	0	0
25	MP ALPHA3	PY	.004	.004	0	0
26	MP BETA1	PY	.004	.004	0	0
27	MP BETA2	PY	.004	.004	0	0
28	MP BETA3	PY	.004	.004	0	0
29	MP GAMMA1	PY	.004	.004	0	0
30	MP GAMMA2	PY	.004	.004	0	0
31	MP GAMMA3	PY	.004	.004	0	0
32	RUNG1	PY	.000364	.000364	0	0
33	RUNG2	PY	.000364	.000364	0	0
34	RUNG3	PY	.000364	.000364	0	0
35	RUNG4	PY	.000364	.000364	0	0
36	RUNG5	PY	.000364	.000364	0	0
37	RUNG6	PY	.000364	.000364	0	0
38	RUNG7	PY	.000364	.000364	0	0
39	SO1	PY	.003	.003	0	0
40	SO2	PY	.003	.003	0	0
41	SO3	PY	.003	.003	0	0
42	SUPPORT1	PY	.008	.008	0	0
43	SUPPORT2	PY	.008	.008	0	0
44	R ANGLE1	PY	.004	.004	0	0
45	R ANGLE2	PY	.004	.004	0	0
46	R ANGLE3	PY	.004	.004	0	0
47	CONNANGLE1	PX	-.008	-.008	0	0
48	CONNANGLE2	PX	-.008	-.008	0	0
49	CONNANGLE3	PX	-.008	-.008	0	0
50	CORNER1	PX	-.013	-.013	0	0
51	CORNER2	PX	-.013	-.013	0	0
52	CORNER3	PX	-.013	-.013	0	0
53	FACE3	PX	-.013	-.013	0	0
54	FACE4	PX	-.013	-.013	0	0
55	FACE1	PX	-.027	-.027	0	0
56	FACE2	PX	-.027	-.027	0	0
57	FACE5	PX	-.027	-.027	0	0
58	FACE6	PX	-.027	-.027	0	0
59	LADDER1	PX	-.005	-.005	0	0
60	LADDER2	PX	-.005	-.005	0	0
61	LADDERPLATE1	PX	-.011	-.011	0	0
62	LADDERPLATE2	PX	-.011	-.011	0	0
63	M PIPE1	PX	-.002	-.002	0	0
64	M PIPE2	PX	-.002	-.002	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,%]
65	M PIPE3	PX	-.002	-.002	0	0
66	M RAIL2	PX	-.002	-.002	0	0
67	M RAIL1	PX	-.005	-.005	0	0
68	M RAIL3	PX	-.005	-.005	0	0
69	MP ALPHA1	PX	-.008	-.008	0	0
70	MP ALPHA2	PX	-.008	-.008	0	0
71	MP ALPHA3	PX	-.008	-.008	0	0
72	MP BETA1	PX	-.008	-.008	0	0
73	MP BETA2	PX	-.008	-.008	0	0
74	MP BETA3	PX	-.008	-.008	0	0
75	MP GAMMA1	PX	-.008	-.008	0	0
76	MP GAMMA2	PX	-.008	-.008	0	0
77	MP GAMMA3	PX	-.008	-.008	0	0
78	RUNG1	PX	-.00063	-.00063	0	0
79	RUNG2	PX	-.00063	-.00063	0	0
80	RUNG3	PX	-.00063	-.00063	0	0
81	RUNG4	PX	-.00063	-.00063	0	0
82	RUNG5	PX	-.00063	-.00063	0	0
83	RUNG6	PX	-.00063	-.00063	0	0
84	RUNG7	PX	-.00063	-.00063	0	0
85	SO1	PX	-.005	-.005	0	0
86	SO2	PX	-.005	-.005	0	0
87	SO3	PX	-.005	-.005	0	0
88	SUPPORT1	PX	-.013	-.013	0	0
89	SUPPORT2	PX	-.013	-.013	0	0
90	R ANGLE1	PX	-.007	-.007	0	0
91	R ANGLE2	PX	-.007	-.007	0	0
92	R ANGLE3	PX	-.007	-.007	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	CONNANGLE1	PY	.008	.008	0	0
2	CONNANGLE2	PY	.008	.008	0	0
3	CONNANGLE3	PY	.008	.008	0	0
4	CORNER1	PY	.013	.013	0	0
5	CORNER2	PY	.013	.013	0	0
6	CORNER3	PY	.013	.013	0	0
7	FACE3	PY	.013	.013	0	0
8	FACE4	PY	.013	.013	0	0
9	FACE1	PY	.027	.027	0	0
10	FACE2	PY	.027	.027	0	0
11	FACE5	PY	.027	.027	0	0
12	FACE6	PY	.027	.027	0	0
13	LADDER1	PY	.005	.005	0	0
14	LADDER2	PY	.005	.005	0	0
15	LADDERPLATE1	PY	.011	.011	0	0
16	LADDERPLATE2	PY	.011	.011	0	0
17	M PIPE1	PY	.002	.002	0	0
18	M PIPE2	PY	.002	.002	0	0
19	M PIPE3	PY	.002	.002	0	0
20	M RAIL2	PY	.002	.002	0	0
21	M RAIL1	PY	.005	.005	0	0
22	M RAIL3	PY	.005	.005	0	0
23	MP ALPHA1	PY	.008	.008	0	0
24	MP ALPHA2	PY	.008	.008	0	0
25	MP ALPHA3	PY	.008	.008	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,%]
26	MP BETA1	PY	.008	.008	0	0
27	MP BETA2	PY	.008	.008	0	0
28	MP BETA3	PY	.008	.008	0	0
29	MP GAMMA1	PY	.008	.008	0	0
30	MP GAMMA2	PY	.008	.008	0	0
31	MP GAMMA3	PY	.008	.008	0	0
32	RUNG1	PY	.00063	.00063	0	0
33	RUNG2	PY	.00063	.00063	0	0
34	RUNG3	PY	.00063	.00063	0	0
35	RUNG4	PY	.00063	.00063	0	0
36	RUNG5	PY	.00063	.00063	0	0
37	RUNG6	PY	.00063	.00063	0	0
38	RUNG7	PY	.00063	.00063	0	0
39	SO1	PY	.005	.005	0	0
40	SO2	PY	.005	.005	0	0
41	SO3	PY	.005	.005	0	0
42	SUPPORT1	PY	.013	.013	0	0
43	SUPPORT2	PY	.013	.013	0	0
44	R ANGLE1	PY	.007	.007	0	0
45	R ANGLE2	PY	.007	.007	0	0
46	R ANGLE3	PY	.007	.007	0	0
47	CONNANGLE1	PX	-.005	-.005	0	0
48	CONNANGLE2	PX	-.005	-.005	0	0
49	CONNANGLE3	PX	-.005	-.005	0	0
50	CORNER1	PX	-.008	-.008	0	0
51	CORNER2	PX	-.008	-.008	0	0
52	CORNER3	PX	-.008	-.008	0	0
53	FACE3	PX	-.008	-.008	0	0
54	FACE4	PX	-.008	-.008	0	0
55	FACE1	PX	-.015	-.015	0	0
56	FACE2	PX	-.015	-.015	0	0
57	FACE5	PX	-.015	-.015	0	0
58	FACE6	PX	-.015	-.015	0	0
59	LADDER1	PX	-.003	-.003	0	0
60	LADDER2	PX	-.003	-.003	0	0
61	LADDERPLATE1	PX	-.006	-.006	0	0
62	LADDERPLATE2	PX	-.006	-.006	0	0
63	M PIPE1	PX	-.001	-.001	0	0
64	M PIPE2	PX	-.001	-.001	0	0
65	M PIPE3	PX	-.001	-.001	0	0
66	M RAIL2	PX	-.001	-.001	0	0
67	M RAIL1	PX	-.003	-.003	0	0
68	M RAIL3	PX	-.003	-.003	0	0
69	MP ALPHA1	PX	-.004	-.004	0	0
70	MP ALPHA2	PX	-.004	-.004	0	0
71	MP ALPHA3	PX	-.004	-.004	0	0
72	MP BETA1	PX	-.004	-.004	0	0
73	MP BETA2	PX	-.004	-.004	0	0
74	MP BETA3	PX	-.004	-.004	0	0
75	MP GAMMA1	PX	-.004	-.004	0	0
76	MP GAMMA2	PX	-.004	-.004	0	0
77	MP GAMMA3	PX	-.004	-.004	0	0
78	RUNG1	PX	-.000364	-.000364	0	0
79	RUNG2	PX	-.000364	-.000364	0	0
80	RUNG3	PX	-.000364	-.000364	0	0
81	RUNG4	PX	-.000364	-.000364	0	0
82	RUNG5	PX	-.000364	-.000364	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,%]
83	RUNG6	PX	-.000364	-.000364	0	0
84	RUNG7	PX	-.000364	-.000364	0	0
85	SO1	PX	-.003	-.003	0	0
86	SO2	PX	-.003	-.003	0	0
87	SO3	PX	-.003	-.003	0	0
88	SUPPORT1	PX	-.008	-.008	0	0
89	SUPPORT2	PX	-.008	-.008	0	0
90	R ANGLE1	PX	-.004	-.004	0	0
91	R ANGLE2	PX	-.004	-.004	0	0
92	R ANGLE3	PX	-.004	-.004	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	CONNANGLE1	PY	.009	.009	0	0
2	CONNANGLE2	PY	.009	.009	0	0
3	CONNANGLE3	PY	.009	.009	0	0
4	CORNER1	PY	.015	.015	0	0
5	CORNER2	PY	.015	.015	0	0
6	CORNER3	PY	.015	.015	0	0
7	FACE3	PY	.015	.015	0	0
8	FACE4	PY	.015	.015	0	0
9	FACE1	PY	.031	.031	0	0
10	FACE2	PY	.031	.031	0	0
11	FACE5	PY	.031	.031	0	0
12	FACE6	PY	.031	.031	0	0
13	LADDER1	PY	.005	.005	0	0
14	LADDER2	PY	.005	.005	0	0
15	LADDERPLATE1	PY	.012	.012	0	0
16	LADDERPLATE2	PY	.012	.012	0	0
17	M PIPE1	PY	.003	.003	0	0
18	M PIPE2	PY	.003	.003	0	0
19	M PIPE3	PY	.003	.003	0	0
20	M RAIL2	PY	.003	.003	0	0
21	M RAIL1	PY	.006	.006	0	0
22	M RAIL3	PY	.006	.006	0	0
23	MP ALPHA1	PY	.009	.009	0	0
24	MP ALPHA2	PY	.009	.009	0	0
25	MP ALPHA3	PY	.009	.009	0	0
26	MP BETA1	PY	.009	.009	0	0
27	MP BETA2	PY	.009	.009	0	0
28	MP BETA3	PY	.009	.009	0	0
29	MP GAMMA1	PY	.009	.009	0	0
30	MP GAMMA2	PY	.009	.009	0	0
31	MP GAMMA3	PY	.009	.009	0	0
32	RUNG1	PY	.000728	.000728	0	0
33	RUNG2	PY	.000728	.000728	0	0
34	RUNG3	PY	.000728	.000728	0	0
35	RUNG4	PY	.000728	.000728	0	0
36	RUNG5	PY	.000728	.000728	0	0
37	RUNG6	PY	.000728	.000728	0	0
38	RUNG7	PY	.000728	.000728	0	0
39	SO1	PY	.006	.006	0	0
40	SO2	PY	.006	.006	0	0
41	SO3	PY	.006	.006	0	0
42	SUPPORT1	PY	.015	.015	0	0
43	SUPPORT2	PY	.015	.015	0	0

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
44	R ANGLE1	PY	.008	.008	0	0
45	R ANGLE2	PY	.008	.008	0	0
46	R ANGLE3	PY	.008	.008	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	CONNANGLE1	PY	.008	.008	0	0
2	CONNANGLE2	PY	.008	.008	0	0
3	CONNANGLE3	PY	.008	.008	0	0
4	CORNER1	PY	.013	.013	0	0
5	CORNER2	PY	.013	.013	0	0
6	CORNER3	PY	.013	.013	0	0
7	FACE5	PY	.013	.013	0	0
8	FACE6	PY	.013	.013	0	0
9	FACE1	PY	.027	.027	0	0
10	FACE2	PY	.027	.027	0	0
11	FACE3	PY	.027	.027	0	0
12	FACE4	PY	.027	.027	0	0
13	LADDER1	PY	.005	.005	0	0
14	LADDER2	PY	.005	.005	0	0
15	LADDERPLATE1	PY	.011	.011	0	0
16	LADDERPLATE2	PY	.011	.011	0	0
17	M PIPE1	PY	.002	.002	0	0
18	M PIPE2	PY	.002	.002	0	0
19	M PIPE3	PY	.002	.002	0	0
20	M RAIL3	PY	.002	.002	0	0
21	M RAIL1	PY	.005	.005	0	0
22	M RAIL2	PY	.005	.005	0	0
23	MP ALPHA1	PY	.008	.008	0	0
24	MP ALPHA2	PY	.008	.008	0	0
25	MP ALPHA3	PY	.008	.008	0	0
26	MP BETA1	PY	.008	.008	0	0
27	MP BETA2	PY	.008	.008	0	0
28	MP BETA3	PY	.008	.008	0	0
29	MP GAMMA1	PY	.008	.008	0	0
30	MP GAMMA2	PY	.008	.008	0	0
31	MP GAMMA3	PY	.008	.008	0	0
32	RUNG1	PY	.00063	.00063	0	0
33	RUNG2	PY	.00063	.00063	0	0
34	RUNG3	PY	.00063	.00063	0	0
35	RUNG4	PY	.00063	.00063	0	0
36	RUNG5	PY	.00063	.00063	0	0
37	RUNG6	PY	.00063	.00063	0	0
38	RUNG7	PY	.00063	.00063	0	0
39	SO1	PY	.005	.005	0	0
40	SO2	PY	.005	.005	0	0
41	SO3	PY	.005	.005	0	0
42	SUPPORT1	PY	.013	.013	0	0
43	SUPPORT2	PY	.013	.013	0	0
44	R ANGLE1	PY	.007	.007	0	0
45	R ANGLE2	PY	.007	.007	0	0
46	R ANGLE3	PY	.007	.007	0	0
47	CONNANGLE1	PX	.005	.005	0	0
48	CONNANGLE2	PX	.005	.005	0	0
49	CONNANGLE3	PX	.005	.005	0	0
50	CORNER1	PX	.008	.008	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,%]
51	CORNER2	PX	.008	.008	0	0
52	CORNER3	PX	.008	.008	0	0
53	FACE5	PX	.008	.008	0	0
54	FACE6	PX	.008	.008	0	0
55	FACE1	PX	.015	.015	0	0
56	FACE2	PX	.015	.015	0	0
57	FACE3	PX	.015	.015	0	0
58	FACE4	PX	.015	.015	0	0
59	LADDER1	PX	.003	.003	0	0
60	LADDER2	PX	.003	.003	0	0
61	LADDERPLATE1	PX	.006	.006	0	0
62	LADDERPLATE2	PX	.006	.006	0	0
63	M PIPE1	PX	.001	.001	0	0
64	M PIPE2	PX	.001	.001	0	0
65	M PIPE3	PX	.001	.001	0	0
66	M RAIL3	PX	.001	.001	0	0
67	M RAIL1	PX	.003	.003	0	0
68	M RAIL2	PX	.003	.003	0	0
69	MP ALPHA1	PX	.004	.004	0	0
70	MP ALPHA2	PX	.004	.004	0	0
71	MP ALPHA3	PX	.004	.004	0	0
72	MP BETA1	PX	.004	.004	0	0
73	MP BETA2	PX	.004	.004	0	0
74	MP BETA3	PX	.004	.004	0	0
75	MP GAMMA1	PX	.004	.004	0	0
76	MP GAMMA2	PX	.004	.004	0	0
77	MP GAMMA3	PX	.004	.004	0	0
78	RUNG1	PX	.000364	.000364	0	0
79	RUNG2	PX	.000364	.000364	0	0
80	RUNG3	PX	.000364	.000364	0	0
81	RUNG4	PX	.000364	.000364	0	0
82	RUNG5	PX	.000364	.000364	0	0
83	RUNG6	PX	.000364	.000364	0	0
84	RUNG7	PX	.000364	.000364	0	0
85	SO1	PX	.003	.003	0	0
86	SO2	PX	.003	.003	0	0
87	SO3	PX	.003	.003	0	0
88	SUPPORT1	PX	.008	.008	0	0
89	SUPPORT2	PX	.008	.008	0	0
90	R ANGLE1	PX	.004	.004	0	0
91	R ANGLE2	PX	.004	.004	0	0
92	R ANGLE3	PX	.004	.004	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	CONNANGLE1	PY	.005	.005	0	0
2	CONNANGLE2	PY	.005	.005	0	0
3	CONNANGLE3	PY	.005	.005	0	0
4	CORNER1	PY	.008	.008	0	0
5	CORNER2	PY	.008	.008	0	0
6	CORNER3	PY	.008	.008	0	0
7	FACE5	PY	.008	.008	0	0
8	FACE6	PY	.008	.008	0	0
9	FACE1	PY	.015	.015	0	0
10	FACE2	PY	.015	.015	0	0
11	FACE3	PY	.015	.015	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,%]
12	FACE4	PY	.015	.015	0	0
13	LADDER1	PY	.003	.003	0	0
14	LADDER2	PY	.003	.003	0	0
15	LADDERPLATE1	PY	.006	.006	0	0
16	LADDERPLATE2	PY	.006	.006	0	0
17	M PIPE1	PY	.001	.001	0	0
18	M PIPE2	PY	.001	.001	0	0
19	M PIPE3	PY	.001	.001	0	0
20	M RAIL3	PY	.001	.001	0	0
21	M RAIL1	PY	.003	.003	0	0
22	M RAIL2	PY	.003	.003	0	0
23	MP ALPHA1	PY	.004	.004	0	0
24	MP ALPHA2	PY	.004	.004	0	0
25	MP ALPHA3	PY	.004	.004	0	0
26	MP BETA1	PY	.004	.004	0	0
27	MP BETA2	PY	.004	.004	0	0
28	MP BETA3	PY	.004	.004	0	0
29	MP GAMMA1	PY	.004	.004	0	0
30	MP GAMMA2	PY	.004	.004	0	0
31	MP GAMMA3	PY	.004	.004	0	0
32	RUNG1	PY	.000364	.000364	0	0
33	RUNG2	PY	.000364	.000364	0	0
34	RUNG3	PY	.000364	.000364	0	0
35	RUNG4	PY	.000364	.000364	0	0
36	RUNG5	PY	.000364	.000364	0	0
37	RUNG6	PY	.000364	.000364	0	0
38	RUNG7	PY	.000364	.000364	0	0
39	SO1	PY	.003	.003	0	0
40	SO2	PY	.003	.003	0	0
41	SO3	PY	.003	.003	0	0
42	SUPPORT1	PY	.008	.008	0	0
43	SUPPORT2	PY	.008	.008	0	0
44	R ANGLE1	PY	.004	.004	0	0
45	R ANGLE2	PY	.004	.004	0	0
46	R ANGLE3	PY	.004	.004	0	0
47	CONNANGLE1	PX	.008	.008	0	0
48	CONNANGLE2	PX	.008	.008	0	0
49	CONNANGLE3	PX	.008	.008	0	0
50	CORNER1	PX	.013	.013	0	0
51	CORNER2	PX	.013	.013	0	0
52	CORNER3	PX	.013	.013	0	0
53	FACE5	PX	.013	.013	0	0
54	FACE6	PX	.013	.013	0	0
55	FACE1	PX	.027	.027	0	0
56	FACE2	PX	.027	.027	0	0
57	FACE3	PX	.027	.027	0	0
58	FACE4	PX	.027	.027	0	0
59	LADDER1	PX	.005	.005	0	0
60	LADDER2	PX	.005	.005	0	0
61	LADDERPLATE1	PX	.011	.011	0	0
62	LADDERPLATE2	PX	.011	.011	0	0
63	M PIPE1	PX	.002	.002	0	0
64	M PIPE2	PX	.002	.002	0	0
65	M PIPE3	PX	.002	.002	0	0
66	M RAIL3	PX	.002	.002	0	0
67	M RAIL1	PX	.005	.005	0	0
68	M RAIL2	PX	.005	.005	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,%]
69	MP ALPHA1	PX	.008	.008	0	0
70	MP ALPHA2	PX	.008	.008	0	0
71	MP ALPHA3	PX	.008	.008	0	0
72	MP BETA1	PX	.008	.008	0	0
73	MP BETA2	PX	.008	.008	0	0
74	MP BETA3	PX	.008	.008	0	0
75	MP GAMMA1	PX	.008	.008	0	0
76	MP GAMMA2	PX	.008	.008	0	0
77	MP GAMMA3	PX	.008	.008	0	0
78	RUNG1	PX	.00063	.00063	0	0
79	RUNG2	PX	.00063	.00063	0	0
80	RUNG3	PX	.00063	.00063	0	0
81	RUNG4	PX	.00063	.00063	0	0
82	RUNG5	PX	.00063	.00063	0	0
83	RUNG6	PX	.00063	.00063	0	0
84	RUNG7	PX	.00063	.00063	0	0
85	SO1	PX	.005	.005	0	0
86	SO2	PX	.005	.005	0	0
87	SO3	PX	.005	.005	0	0
88	SUPPORT1	PX	.013	.013	0	0
89	SUPPORT2	PX	.013	.013	0	0
90	R ANGLE1	PX	.007	.007	0	0
91	R ANGLE2	PX	.007	.007	0	0
92	R ANGLE3	PX	.007	.007	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	CONNANGLE1	PX	.009	.009	0	0
2	CONNANGLE2	PX	.009	.009	0	0
3	CONNANGLE3	PX	.009	.009	0	0
4	CORNER1	PX	.015	.015	0	0
5	CORNER2	PX	.015	.015	0	0
6	CORNER3	PX	.015	.015	0	0
7	FACE5	PX	.015	.015	0	0
8	FACE6	PX	.015	.015	0	0
9	FACE1	PX	.031	.031	0	0
10	FACE2	PX	.031	.031	0	0
11	FACE3	PX	.031	.031	0	0
12	FACE4	PX	.031	.031	0	0
13	LADDER1	PX	.005	.005	0	0
14	LADDER2	PX	.005	.005	0	0
15	LADDERPLATE1	PX	.012	.012	0	0
16	LADDERPLATE2	PX	.012	.012	0	0
17	M PIPE1	PX	.003	.003	0	0
18	M PIPE2	PX	.003	.003	0	0
19	M PIPE3	PX	.003	.003	0	0
20	M RAIL3	PX	.003	.003	0	0
21	M RAIL1	PX	.006	.006	0	0
22	M RAIL2	PX	.006	.006	0	0
23	MP ALPHA1	PX	.009	.009	0	0
24	MP ALPHA2	PX	.009	.009	0	0
25	MP ALPHA3	PX	.009	.009	0	0
26	MP BETA1	PX	.009	.009	0	0
27	MP BETA2	PX	.009	.009	0	0
28	MP BETA3	PX	.009	.009	0	0
29	MP GAMMA1	PX	.009	.009	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,%]
30	MP GAMMA2	PX	.009	.009	0	0
31	MP GAMMA3	PX	.009	.009	0	0
32	RUNG1	PX	.000728	.000728	0	0
33	RUNG2	PX	.000728	.000728	0	0
34	RUNG3	PX	.000728	.000728	0	0
35	RUNG4	PX	.000728	.000728	0	0
36	RUNG5	PX	.000728	.000728	0	0
37	RUNG6	PX	.000728	.000728	0	0
38	RUNG7	PX	.000728	.000728	0	0
39	SO1	PX	.006	.006	0	0
40	SO2	PX	.006	.006	0	0
41	SO3	PX	.006	.006	0	0
42	SUPPORT1	PX	.015	.015	0	0
43	SUPPORT2	PX	.015	.015	0	0
44	R ANGLE1	PX	.008	.008	0	0
45	R ANGLE2	PX	.008	.008	0	0
46	R ANGLE3	PX	.008	.008	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	CONNANGLE1	PY	-.005	-.005	0	0
2	CONNANGLE2	PY	-.005	-.005	0	0
3	CONNANGLE3	PY	-.005	-.005	0	0
4	CORNER1	PY	-.008	-.008	0	0
5	CORNER2	PY	-.008	-.008	0	0
6	CORNER3	PY	-.008	-.008	0	0
7	FACE5	PY	-.008	-.008	0	0
8	FACE6	PY	-.008	-.008	0	0
9	FACE1	PY	-.015	-.015	0	0
10	FACE2	PY	-.015	-.015	0	0
11	FACE3	PY	-.015	-.015	0	0
12	FACE4	PY	-.015	-.015	0	0
13	LADDER1	PY	-.003	-.003	0	0
14	LADDER2	PY	-.003	-.003	0	0
15	LADDERPLATE1	PY	-.006	-.006	0	0
16	LADDERPLATE2	PY	-.006	-.006	0	0
17	M PIPE1	PY	-.001	-.001	0	0
18	M PIPE2	PY	-.001	-.001	0	0
19	M PIPE3	PY	-.001	-.001	0	0
20	M RAIL3	PY	-.001	-.001	0	0
21	M RAIL1	PY	-.003	-.003	0	0
22	M RAIL2	PY	-.003	-.003	0	0
23	MP ALPHA1	PY	-.004	-.004	0	0
24	MP ALPHA2	PY	-.004	-.004	0	0
25	MP ALPHA3	PY	-.004	-.004	0	0
26	MP BETA1	PY	-.004	-.004	0	0
27	MP BETA2	PY	-.004	-.004	0	0
28	MP BETA3	PY	-.004	-.004	0	0
29	MP GAMMA1	PY	-.004	-.004	0	0
30	MP GAMMA2	PY	-.004	-.004	0	0
31	MP GAMMA3	PY	-.004	-.004	0	0
32	RUNG1	PY	-.000364	-.000364	0	0
33	RUNG2	PY	-.000364	-.000364	0	0
34	RUNG3	PY	-.000364	-.000364	0	0
35	RUNG4	PY	-.000364	-.000364	0	0
36	RUNG5	PY	-.000364	-.000364	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,%]
37	RUNG6	PY	-.000364	-.000364	0	0
38	RUNG7	PY	-.000364	-.000364	0	0
39	SO1	PY	-.003	-.003	0	0
40	SO2	PY	-.003	-.003	0	0
41	SO3	PY	-.003	-.003	0	0
42	SUPPORT1	PY	-.008	-.008	0	0
43	SUPPORT2	PY	-.008	-.008	0	0
44	R ANGLE1	PY	-.004	-.004	0	0
45	R ANGLE2	PY	-.004	-.004	0	0
46	R ANGLE3	PY	-.004	-.004	0	0
47	CONNANGLE1	PX	.008	.008	0	0
48	CONNANGLE2	PX	.008	.008	0	0
49	CONNANGLE3	PX	.008	.008	0	0
50	CORNER1	PX	.013	.013	0	0
51	CORNER2	PX	.013	.013	0	0
52	CORNER3	PX	.013	.013	0	0
53	FACE5	PX	.013	.013	0	0
54	FACE6	PX	.013	.013	0	0
55	FACE1	PX	.027	.027	0	0
56	FACE2	PX	.027	.027	0	0
57	FACE3	PX	.027	.027	0	0
58	FACE4	PX	.027	.027	0	0
59	LADDER1	PX	.005	.005	0	0
60	LADDER2	PX	.005	.005	0	0
61	LADDERPLATE1	PX	.011	.011	0	0
62	LADDERPLATE2	PX	.011	.011	0	0
63	M PIPE1	PX	.002	.002	0	0
64	M PIPE2	PX	.002	.002	0	0
65	M PIPE3	PX	.002	.002	0	0
66	M RAIL3	PX	.002	.002	0	0
67	M RAIL1	PX	.005	.005	0	0
68	M RAIL2	PX	.005	.005	0	0
69	MP ALPHA1	PX	.008	.008	0	0
70	MP ALPHA2	PX	.008	.008	0	0
71	MP ALPHA3	PX	.008	.008	0	0
72	MP BETA1	PX	.008	.008	0	0
73	MP BETA2	PX	.008	.008	0	0
74	MP BETA3	PX	.008	.008	0	0
75	MP GAMMA1	PX	.008	.008	0	0
76	MP GAMMA2	PX	.008	.008	0	0
77	MP GAMMA3	PX	.008	.008	0	0
78	RUNG1	PX	.00063	.00063	0	0
79	RUNG2	PX	.00063	.00063	0	0
80	RUNG3	PX	.00063	.00063	0	0
81	RUNG4	PX	.00063	.00063	0	0
82	RUNG5	PX	.00063	.00063	0	0
83	RUNG6	PX	.00063	.00063	0	0
84	RUNG7	PX	.00063	.00063	0	0
85	SO1	PX	.005	.005	0	0
86	SO2	PX	.005	.005	0	0
87	SO3	PX	.005	.005	0	0
88	SUPPORT1	PX	.013	.013	0	0
89	SUPPORT2	PX	.013	.013	0	0
90	R ANGLE1	PX	.007	.007	0	0
91	R ANGLE2	PX	.007	.007	0	0
92	R ANGLE3	PX	.007	.007	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	CONNANGLE1	PY	-.008	-.008	0	0
2	CONNANGLE2	PY	-.008	-.008	0	0
3	CONNANGLE3	PY	-.008	-.008	0	0
4	CORNER1	PY	-.013	-.013	0	0
5	CORNER2	PY	-.013	-.013	0	0
6	CORNER3	PY	-.013	-.013	0	0
7	FACE1	PY	-.013	-.013	0	0
8	FACE2	PY	-.013	-.013	0	0
9	FACE3	PY	-.027	-.027	0	0
10	FACE4	PY	-.027	-.027	0	0
11	FACE5	PY	-.027	-.027	0	0
12	FACE6	PY	-.027	-.027	0	0
13	LADDER1	PY	-.005	-.005	0	0
14	LADDER2	PY	-.005	-.005	0	0
15	LADDERPLATE1	PY	-.011	-.011	0	0
16	LADDERPLATE2	PY	-.011	-.011	0	0
17	M PIPE1	PY	-.002	-.002	0	0
18	M PIPE2	PY	-.002	-.002	0	0
19	M PIPE3	PY	-.002	-.002	0	0
20	M RAIL1	PY	-.002	-.002	0	0
21	M RAIL2	PY	-.005	-.005	0	0
22	M RAIL3	PY	-.005	-.005	0	0
23	MP ALPHA1	PY	-.008	-.008	0	0
24	MP ALPHA2	PY	-.008	-.008	0	0
25	MP ALPHA3	PY	-.008	-.008	0	0
26	MP BETA1	PY	-.008	-.008	0	0
27	MP BETA2	PY	-.008	-.008	0	0
28	MP BETA3	PY	-.008	-.008	0	0
29	MP GAMMA1	PY	-.008	-.008	0	0
30	MP GAMMA2	PY	-.008	-.008	0	0
31	MP GAMMA3	PY	-.008	-.008	0	0
32	RUNG1	PY	-.00063	-.00063	0	0
33	RUNG2	PY	-.00063	-.00063	0	0
34	RUNG3	PY	-.00063	-.00063	0	0
35	RUNG4	PY	-.00063	-.00063	0	0
36	RUNG5	PY	-.00063	-.00063	0	0
37	RUNG6	PY	-.00063	-.00063	0	0
38	RUNG7	PY	-.00063	-.00063	0	0
39	SO1	PY	-.005	-.005	0	0
40	SO2	PY	-.005	-.005	0	0
41	SO3	PY	-.005	-.005	0	0
42	SUPPORT1	PY	-.013	-.013	0	0
43	SUPPORT2	PY	-.013	-.013	0	0
44	R ANGLE1	PY	-.007	-.007	0	0
45	R ANGLE2	PY	-.007	-.007	0	0
46	R ANGLE3	PY	-.007	-.007	0	0
47	CONNANGLE1	PX	.005	.005	0	0
48	CONNANGLE2	PX	.005	.005	0	0
49	CONNANGLE3	PX	.005	.005	0	0
50	CORNER1	PX	.008	.008	0	0
51	CORNER2	PX	.008	.008	0	0
52	CORNER3	PX	.008	.008	0	0
53	FACE1	PX	.008	.008	0	0
54	FACE2	PX	.008	.008	0	0
55	FACE3	PX	.015	.015	0	0
56	FACE4	PX	.015	.015	0	0
57	FACE5	PX	.015	.015	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,%]
58	FACE6	PX	.015	.015	0	0
59	LADDER1	PX	.003	.003	0	0
60	LADDER2	PX	.003	.003	0	0
61	LADDERPLATE1	PX	.006	.006	0	0
62	LADDERPLATE2	PX	.006	.006	0	0
63	M PIPE1	PX	.001	.001	0	0
64	M PIPE2	PX	.001	.001	0	0
65	M PIPE3	PX	.001	.001	0	0
66	M RAIL1	PX	.001	.001	0	0
67	M RAIL2	PX	.003	.003	0	0
68	M RAIL3	PX	.003	.003	0	0
69	MP ALPHA1	PX	.004	.004	0	0
70	MP ALPHA2	PX	.004	.004	0	0
71	MP ALPHA3	PX	.004	.004	0	0
72	MP BETA1	PX	.004	.004	0	0
73	MP BETA2	PX	.004	.004	0	0
74	MP BETA3	PX	.004	.004	0	0
75	MP GAMMA1	PX	.004	.004	0	0
76	MP GAMMA2	PX	.004	.004	0	0
77	MP GAMMA3	PX	.004	.004	0	0
78	RUNG1	PX	.000364	.000364	0	0
79	RUNG2	PX	.000364	.000364	0	0
80	RUNG3	PX	.000364	.000364	0	0
81	RUNG4	PX	.000364	.000364	0	0
82	RUNG5	PX	.000364	.000364	0	0
83	RUNG6	PX	.000364	.000364	0	0
84	RUNG7	PX	.000364	.000364	0	0
85	SO1	PX	.003	.003	0	0
86	SO2	PX	.003	.003	0	0
87	SO3	PX	.003	.003	0	0
88	SUPPORT1	PX	.008	.008	0	0
89	SUPPORT2	PX	.008	.008	0	0
90	R ANGLE1	PX	.004	.004	0	0
91	R ANGLE2	PX	.004	.004	0	0
92	R ANGLE3	PX	.004	.004	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	CONNANGLE1	PY	-.000585	-.000585	0	0
2	CONNANGLE2	PY	-.000585	-.000585	0	0
3	CONNANGLE3	PY	-.000585	-.000585	0	0
4	CORNER1	PY	-.000975	-.000975	0	0
5	CORNER2	PY	-.000975	-.000975	0	0
6	CORNER3	PY	-.000975	-.000975	0	0
7	FACE1	PY	-.000975	-.000975	0	0
8	FACE2	PY	-.000975	-.000975	0	0
9	FACE3	PY	-.002	-.002	0	0
10	FACE4	PY	-.002	-.002	0	0
11	FACE5	PY	-.002	-.002	0	0
12	FACE6	PY	-.002	-.002	0	0
13	LADDER1	PY	-.000341	-.000341	0	0
14	LADDER2	PY	-.000341	-.000341	0	0
15	LADDERPLATE1	PY	-.00078	-.00078	0	0
16	LADDERPLATE2	PY	-.00078	-.00078	0	0
17	M PIPE1	PY	-.000176	-.000176	0	0
18	M PIPE2	PY	-.000176	-.000176	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,%]
19	M PIPE3	PY	-.000176	-.000176	0	0
20	M RAIL1	PY	-.000176	-.000176	0	0
21	M RAIL2	PY	-.000351	-.000351	0	0
22	M RAIL3	PY	-.000351	-.000351	0	0
23	MP ALPHA1	PY	-.000556	-.000556	0	0
24	MP ALPHA2	PY	-.000556	-.000556	0	0
25	MP ALPHA3	PY	-.000556	-.000556	0	0
26	MP BETA1	PY	-.000556	-.000556	0	0
27	MP BETA2	PY	-.000556	-.000556	0	0
28	MP BETA3	PY	-.000556	-.000556	0	0
29	MP GAMMA1	PY	-.000556	-.000556	0	0
30	MP GAMMA2	PY	-.000556	-.000556	0	0
31	MP GAMMA3	PY	-.000556	-.000556	0	0
32	RUNG1	PY	-4.6e-5	-4.6e-5	0	0
33	RUNG2	PY	-4.6e-5	-4.6e-5	0	0
34	RUNG3	PY	-4.6e-5	-4.6e-5	0	0
35	RUNG4	PY	-4.6e-5	-4.6e-5	0	0
36	RUNG5	PY	-4.6e-5	-4.6e-5	0	0
37	RUNG6	PY	-4.6e-5	-4.6e-5	0	0
38	RUNG7	PY	-4.6e-5	-4.6e-5	0	0
39	SO1	PY	-.000366	-.000366	0	0
40	SO2	PY	-.000366	-.000366	0	0
41	SO3	PY	-.000366	-.000366	0	0
42	SUPPORT1	PY	-.000975	-.000975	0	0
43	SUPPORT2	PY	-.000975	-.000975	0	0
44	R ANGLE1	PY	-.000487	-.000487	0	0
45	R ANGLE2	PY	-.000487	-.000487	0	0
46	R ANGLE3	PY	-.000487	-.000487	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	CONNANGLE1	PY	-.000507	-.000507	0	0
2	CONNANGLE2	PY	-.000507	-.000507	0	0
3	CONNANGLE3	PY	-.000507	-.000507	0	0
4	CORNER1	PY	-.000844	-.000844	0	0
5	CORNER2	PY	-.000844	-.000844	0	0
6	CORNER3	PY	-.000844	-.000844	0	0
7	FACE1	PY	-.000844	-.000844	0	0
8	FACE2	PY	-.000844	-.000844	0	0
9	FACE3	PY	-.002	-.002	0	0
10	FACE4	PY	-.002	-.002	0	0
11	FACE5	PY	-.002	-.002	0	0
12	FACE6	PY	-.002	-.002	0	0
13	LADDER1	PY	-.000295	-.000295	0	0
14	LADDER2	PY	-.000295	-.000295	0	0
15	LADDERPLATE1	PY	-.000675	-.000675	0	0
16	LADDERPLATE2	PY	-.000675	-.000675	0	0
17	M PIPE1	PY	-.000152	-.000152	0	0
18	M PIPE2	PY	-.000152	-.000152	0	0
19	M PIPE3	PY	-.000152	-.000152	0	0
20	M RAIL1	PY	-.000152	-.000152	0	0
21	M RAIL2	PY	-.000304	-.000304	0	0
22	M RAIL3	PY	-.000304	-.000304	0	0
23	MP ALPHA1	PY	-.000481	-.000481	0	0
24	MP ALPHA2	PY	-.000481	-.000481	0	0
25	MP ALPHA3	PY	-.000481	-.000481	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,%]
26	MP BETA1	PY	-.000481	-.000481	0	0
27	MP BETA2	PY	-.000481	-.000481	0	0
28	MP BETA3	PY	-.000481	-.000481	0	0
29	MP GAMMA1	PY	-.000481	-.000481	0	0
30	MP GAMMA2	PY	-.000481	-.000481	0	0
31	MP GAMMA3	PY	-.000481	-.000481	0	0
32	RUNG1	PY	-4e-5	-4e-5	0	0
33	RUNG2	PY	-4e-5	-4e-5	0	0
34	RUNG3	PY	-4e-5	-4e-5	0	0
35	RUNG4	PY	-4e-5	-4e-5	0	0
36	RUNG5	PY	-4e-5	-4e-5	0	0
37	RUNG6	PY	-4e-5	-4e-5	0	0
38	RUNG7	PY	-4e-5	-4e-5	0	0
39	SO1	PY	-.000317	-.000317	0	0
40	SO2	PY	-.000317	-.000317	0	0
41	SO3	PY	-.000317	-.000317	0	0
42	SUPPORT1	PY	-.000844	-.000844	0	0
43	SUPPORT2	PY	-.000844	-.000844	0	0
44	R ANGLE1	PY	-.000422	-.000422	0	0
45	R ANGLE2	PY	-.000422	-.000422	0	0
46	R ANGLE3	PY	-.000422	-.000422	0	0
47	CONNANGLE1	PX	-.000292	-.000292	0	0
48	CONNANGLE2	PX	-.000292	-.000292	0	0
49	CONNANGLE3	PX	-.000292	-.000292	0	0
50	CORNER1	PX	-.000487	-.000487	0	0
51	CORNER2	PX	-.000487	-.000487	0	0
52	CORNER3	PX	-.000487	-.000487	0	0
53	FACE1	PX	-.000487	-.000487	0	0
54	FACE2	PX	-.000487	-.000487	0	0
55	FACE3	PX	-.000975	-.000975	0	0
56	FACE4	PX	-.000975	-.000975	0	0
57	FACE5	PX	-.000975	-.000975	0	0
58	FACE6	PX	-.000975	-.000975	0	0
59	LADDER1	PX	-.000171	-.000171	0	0
60	LADDER2	PX	-.000171	-.000171	0	0
61	LADDERPLATE1	PX	-.00039	-.00039	0	0
62	LADDERPLATE2	PX	-.00039	-.00039	0	0
63	M PIPE1	PX	-8.8e-5	-8.8e-5	0	0
64	M PIPE2	PX	-8.8e-5	-8.8e-5	0	0
65	M PIPE3	PX	-8.8e-5	-8.8e-5	0	0
66	M RAIL1	PX	-8.8e-5	-8.8e-5	0	0
67	M RAIL2	PX	-.000176	-.000176	0	0
68	M RAIL3	PX	-.000176	-.000176	0	0
69	MP ALPHA1	PX	-.000278	-.000278	0	0
70	MP ALPHA2	PX	-.000278	-.000278	0	0
71	MP ALPHA3	PX	-.000278	-.000278	0	0
72	MP BETA1	PX	-.000278	-.000278	0	0
73	MP BETA2	PX	-.000278	-.000278	0	0
74	MP BETA3	PX	-.000278	-.000278	0	0
75	MP GAMMA1	PX	-.000278	-.000278	0	0
76	MP GAMMA2	PX	-.000278	-.000278	0	0
77	MP GAMMA3	PX	-.000278	-.000278	0	0
78	RUNG1	PX	-2.3e-5	-2.3e-5	0	0
79	RUNG2	PX	-2.3e-5	-2.3e-5	0	0
80	RUNG3	PX	-2.3e-5	-2.3e-5	0	0
81	RUNG4	PX	-2.3e-5	-2.3e-5	0	0
82	RUNG5	PX	-2.3e-5	-2.3e-5	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,%]
83	RUNG6	PX	-2.3e-5	-2.3e-5	0	0
84	RUNG7	PX	-2.3e-5	-2.3e-5	0	0
85	SO1	PX	-.000183	-.000183	0	0
86	SO2	PX	-.000183	-.000183	0	0
87	SO3	PX	-.000183	-.000183	0	0
88	SUPPORT1	PX	-.000487	-.000487	0	0
89	SUPPORT2	PX	-.000487	-.000487	0	0
90	R ANGLE1	PX	-.000244	-.000244	0	0
91	R ANGLE2	PX	-.000244	-.000244	0	0
92	R ANGLE3	PX	-.000244	-.000244	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	CONNANGLE1	PY	-.000292	-.000292	0	0
2	CONNANGLE2	PY	-.000292	-.000292	0	0
3	CONNANGLE3	PY	-.000292	-.000292	0	0
4	CORNER1	PY	-.000487	-.000487	0	0
5	CORNER2	PY	-.000487	-.000487	0	0
6	CORNER3	PY	-.000487	-.000487	0	0
7	FACE1	PY	-.000487	-.000487	0	0
8	FACE2	PY	-.000487	-.000487	0	0
9	FACE3	PY	-.000975	-.000975	0	0
10	FACE4	PY	-.000975	-.000975	0	0
11	FACE5	PY	-.000975	-.000975	0	0
12	FACE6	PY	-.000975	-.000975	0	0
13	LADDER1	PY	-.000171	-.000171	0	0
14	LADDER2	PY	-.000171	-.000171	0	0
15	LADDERPLATE1	PY	-.00039	-.00039	0	0
16	LADDERPLATE2	PY	-.00039	-.00039	0	0
17	M PIPE1	PY	-8.8e-5	-8.8e-5	0	0
18	M PIPE2	PY	-8.8e-5	-8.8e-5	0	0
19	M PIPE3	PY	-8.8e-5	-8.8e-5	0	0
20	M RAIL1	PY	-8.8e-5	-8.8e-5	0	0
21	M RAIL2	PY	-.000176	-.000176	0	0
22	M RAIL3	PY	-.000176	-.000176	0	0
23	MP ALPHA1	PY	-.000278	-.000278	0	0
24	MP ALPHA2	PY	-.000278	-.000278	0	0
25	MP ALPHA3	PY	-.000278	-.000278	0	0
26	MP BETA1	PY	-.000278	-.000278	0	0
27	MP BETA2	PY	-.000278	-.000278	0	0
28	MP BETA3	PY	-.000278	-.000278	0	0
29	MP GAMMA1	PY	-.000278	-.000278	0	0
30	MP GAMMA2	PY	-.000278	-.000278	0	0
31	MP GAMMA3	PY	-.000278	-.000278	0	0
32	RUNG1	PY	-2.3e-5	-2.3e-5	0	0
33	RUNG2	PY	-2.3e-5	-2.3e-5	0	0
34	RUNG3	PY	-2.3e-5	-2.3e-5	0	0
35	RUNG4	PY	-2.3e-5	-2.3e-5	0	0
36	RUNG5	PY	-2.3e-5	-2.3e-5	0	0
37	RUNG6	PY	-2.3e-5	-2.3e-5	0	0
38	RUNG7	PY	-2.3e-5	-2.3e-5	0	0
39	SO1	PY	-.000183	-.000183	0	0
40	SO2	PY	-.000183	-.000183	0	0
41	SO3	PY	-.000183	-.000183	0	0
42	SUPPORT1	PY	-.000487	-.000487	0	0
43	SUPPORT2	PY	-.000487	-.000487	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,%]
44	R ANGLE1	PY	-.000244	-.000244	0	0
45	R ANGLE2	PY	-.000244	-.000244	0	0
46	R ANGLE3	PY	-.000244	-.000244	0	0
47	CONNANGLE1	PX	-.000507	-.000507	0	0
48	CONNANGLE2	PX	-.000507	-.000507	0	0
49	CONNANGLE3	PX	-.000507	-.000507	0	0
50	CORNER1	PX	-.000844	-.000844	0	0
51	CORNER2	PX	-.000844	-.000844	0	0
52	CORNER3	PX	-.000844	-.000844	0	0
53	FACE1	PX	-.000844	-.000844	0	0
54	FACE2	PX	-.000844	-.000844	0	0
55	FACE3	PX	-.002	-.002	0	0
56	FACE4	PX	-.002	-.002	0	0
57	FACE5	PX	-.002	-.002	0	0
58	FACE6	PX	-.002	-.002	0	0
59	LADDER1	PX	-.000295	-.000295	0	0
60	LADDER2	PX	-.000295	-.000295	0	0
61	LADDERPLATE1	PX	-.000675	-.000675	0	0
62	LADDERPLATE2	PX	-.000675	-.000675	0	0
63	M PIPE1	PX	-.000152	-.000152	0	0
64	M PIPE2	PX	-.000152	-.000152	0	0
65	M PIPE3	PX	-.000152	-.000152	0	0
66	M RAIL1	PX	-.000152	-.000152	0	0
67	M RAIL2	PX	-.000304	-.000304	0	0
68	M RAIL3	PX	-.000304	-.000304	0	0
69	MP ALPHA1	PX	-.000481	-.000481	0	0
70	MP ALPHA2	PX	-.000481	-.000481	0	0
71	MP ALPHA3	PX	-.000481	-.000481	0	0
72	MP BETA1	PX	-.000481	-.000481	0	0
73	MP BETA2	PX	-.000481	-.000481	0	0
74	MP BETA3	PX	-.000481	-.000481	0	0
75	MP GAMMA1	PX	-.000481	-.000481	0	0
76	MP GAMMA2	PX	-.000481	-.000481	0	0
77	MP GAMMA3	PX	-.000481	-.000481	0	0
78	RUNG1	PX	-4e-5	-4e-5	0	0
79	RUNG2	PX	-4e-5	-4e-5	0	0
80	RUNG3	PX	-4e-5	-4e-5	0	0
81	RUNG4	PX	-4e-5	-4e-5	0	0
82	RUNG5	PX	-4e-5	-4e-5	0	0
83	RUNG6	PX	-4e-5	-4e-5	0	0
84	RUNG7	PX	-4e-5	-4e-5	0	0
85	SO1	PX	-.000317	-.000317	0	0
86	SO2	PX	-.000317	-.000317	0	0
87	SO3	PX	-.000317	-.000317	0	0
88	SUPPORT1	PX	-.000844	-.000844	0	0
89	SUPPORT2	PX	-.000844	-.000844	0	0
90	R ANGLE1	PX	-.000422	-.000422	0	0
91	R ANGLE2	PX	-.000422	-.000422	0	0
92	R ANGLE3	PX	-.000422	-.000422	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	CONNANGLE1	PX	-.000585	-.000585	0	0
2	CONNANGLE2	PX	-.000585	-.000585	0	0
3	CONNANGLE3	PX	-.000585	-.000585	0	0
4	CORNER1	PX	-.000975	-.000975	0	0

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
5	CORNER2	PX	-.000975	-.000975	0	0
6	CORNER3	PX	-.000975	-.000975	0	0
7	FACE3	PX	-.000975	-.000975	0	0
8	FACE4	PX	-.000975	-.000975	0	0
9	FACE1	PX	-.002	-.002	0	0
10	FACE2	PX	-.002	-.002	0	0
11	FACE5	PX	-.002	-.002	0	0
12	FACE6	PX	-.002	-.002	0	0
13	LADDER1	PX	-.000341	-.000341	0	0
14	LADDER2	PX	-.000341	-.000341	0	0
15	LADDERPLATE1	PX	-.00078	-.00078	0	0
16	LADDERPLATE2	PX	-.00078	-.00078	0	0
17	M PIPE1	PX	-.000176	-.000176	0	0
18	M PIPE2	PX	-.000176	-.000176	0	0
19	M PIPE3	PX	-.000176	-.000176	0	0
20	M RAIL2	PX	-.000176	-.000176	0	0
21	M RAIL1	PX	-.000351	-.000351	0	0
22	M RAIL3	PX	-.000351	-.000351	0	0
23	MP ALPHA1	PX	-.000556	-.000556	0	0
24	MP ALPHA2	PX	-.000556	-.000556	0	0
25	MP ALPHA3	PX	-.000556	-.000556	0	0
26	MP BETA1	PX	-.000556	-.000556	0	0
27	MP BETA2	PX	-.000556	-.000556	0	0
28	MP BETA3	PX	-.000556	-.000556	0	0
29	MP GAMMA1	PX	-.000556	-.000556	0	0
30	MP GAMMA2	PX	-.000556	-.000556	0	0
31	MP GAMMA3	PX	-.000556	-.000556	0	0
32	RUNG1	PX	-4.6e-5	-4.6e-5	0	0
33	RUNG2	PX	-4.6e-5	-4.6e-5	0	0
34	RUNG3	PX	-4.6e-5	-4.6e-5	0	0
35	RUNG4	PX	-4.6e-5	-4.6e-5	0	0
36	RUNG5	PX	-4.6e-5	-4.6e-5	0	0
37	RUNG6	PX	-4.6e-5	-4.6e-5	0	0
38	RUNG7	PX	-4.6e-5	-4.6e-5	0	0
39	SO1	PX	-.000366	-.000366	0	0
40	SO2	PX	-.000366	-.000366	0	0
41	SO3	PX	-.000366	-.000366	0	0
42	SUPPORT1	PX	-.000975	-.000975	0	0
43	SUPPORT2	PX	-.000975	-.000975	0	0
44	R ANGLE1	PX	-.000487	-.000487	0	0
45	R ANGLE2	PX	-.000487	-.000487	0	0
46	R ANGLE3	PX	-.000487	-.000487	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	CONNANGLE1	PY	.000292	.000292	0	0
2	CONNANGLE2	PY	.000292	.000292	0	0
3	CONNANGLE3	PY	.000292	.000292	0	0
4	CORNER1	PY	.000487	.000487	0	0
5	CORNER2	PY	.000487	.000487	0	0
6	CORNER3	PY	.000487	.000487	0	0
7	FACE3	PY	.000487	.000487	0	0
8	FACE4	PY	.000487	.000487	0	0
9	FACE1	PY	.000975	.000975	0	0
10	FACE2	PY	.000975	.000975	0	0
11	FACE5	PY	.000975	.000975	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,%]
12	FACE6	PY	.000975	.000975	0	0
13	LADDER1	PY	.000171	.000171	0	0
14	LADDER2	PY	.000171	.000171	0	0
15	LADDERPLATE1	PY	.00039	.00039	0	0
16	LADDERPLATE2	PY	.00039	.00039	0	0
17	M PIPE1	PY	8.8e-5	8.8e-5	0	0
18	M PIPE2	PY	8.8e-5	8.8e-5	0	0
19	M PIPE3	PY	8.8e-5	8.8e-5	0	0
20	M RAIL2	PY	8.8e-5	8.8e-5	0	0
21	M RAIL1	PY	.000176	.000176	0	0
22	M RAIL3	PY	.000176	.000176	0	0
23	MP ALPHA1	PY	.000278	.000278	0	0
24	MP ALPHA2	PY	.000278	.000278	0	0
25	MP ALPHA3	PY	.000278	.000278	0	0
26	MP BETA1	PY	.000278	.000278	0	0
27	MP BETA2	PY	.000278	.000278	0	0
28	MP BETA3	PY	.000278	.000278	0	0
29	MP GAMMA1	PY	.000278	.000278	0	0
30	MP GAMMA2	PY	.000278	.000278	0	0
31	MP GAMMA3	PY	.000278	.000278	0	0
32	RUNG1	PY	2.3e-5	2.3e-5	0	0
33	RUNG2	PY	2.3e-5	2.3e-5	0	0
34	RUNG3	PY	2.3e-5	2.3e-5	0	0
35	RUNG4	PY	2.3e-5	2.3e-5	0	0
36	RUNG5	PY	2.3e-5	2.3e-5	0	0
37	RUNG6	PY	2.3e-5	2.3e-5	0	0
38	RUNG7	PY	2.3e-5	2.3e-5	0	0
39	SO1	PY	.000183	.000183	0	0
40	SO2	PY	.000183	.000183	0	0
41	SO3	PY	.000183	.000183	0	0
42	SUPPORT1	PY	.000487	.000487	0	0
43	SUPPORT2	PY	.000487	.000487	0	0
44	R ANGLE1	PY	.000244	.000244	0	0
45	R ANGLE2	PY	.000244	.000244	0	0
46	R ANGLE3	PY	.000244	.000244	0	0
47	CONNANGLE1	PX	-.000507	-.000507	0	0
48	CONNANGLE2	PX	-.000507	-.000507	0	0
49	CONNANGLE3	PX	-.000507	-.000507	0	0
50	CORNER1	PX	-.000844	-.000844	0	0
51	CORNER2	PX	-.000844	-.000844	0	0
52	CORNER3	PX	-.000844	-.000844	0	0
53	FACE3	PX	-.000844	-.000844	0	0
54	FACE4	PX	-.000844	-.000844	0	0
55	FACE1	PX	-.002	-.002	0	0
56	FACE2	PX	-.002	-.002	0	0
57	FACE5	PX	-.002	-.002	0	0
58	FACE6	PX	-.002	-.002	0	0
59	LADDER1	PX	-.000295	-.000295	0	0
60	LADDER2	PX	-.000295	-.000295	0	0
61	LADDERPLATE1	PX	-.000675	-.000675	0	0
62	LADDERPLATE2	PX	-.000675	-.000675	0	0
63	M PIPE1	PX	-.000152	-.000152	0	0
64	M PIPE2	PX	-.000152	-.000152	0	0
65	M PIPE3	PX	-.000152	-.000152	0	0
66	M RAIL2	PX	-.000152	-.000152	0	0
67	M RAIL1	PX	-.000304	-.000304	0	0
68	M RAIL3	PX	-.000304	-.000304	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,%]
69	MP ALPHA1	PX	-.000481	-.000481	0	0
70	MP ALPHA2	PX	-.000481	-.000481	0	0
71	MP ALPHA3	PX	-.000481	-.000481	0	0
72	MP BETA1	PX	-.000481	-.000481	0	0
73	MP BETA2	PX	-.000481	-.000481	0	0
74	MP BETA3	PX	-.000481	-.000481	0	0
75	MP GAMMA1	PX	-.000481	-.000481	0	0
76	MP GAMMA2	PX	-.000481	-.000481	0	0
77	MP GAMMA3	PX	-.000481	-.000481	0	0
78	RUNG1	PX	-4e-5	-4e-5	0	0
79	RUNG2	PX	-4e-5	-4e-5	0	0
80	RUNG3	PX	-4e-5	-4e-5	0	0
81	RUNG4	PX	-4e-5	-4e-5	0	0
82	RUNG5	PX	-4e-5	-4e-5	0	0
83	RUNG6	PX	-4e-5	-4e-5	0	0
84	RUNG7	PX	-4e-5	-4e-5	0	0
85	SO1	PX	-.000317	-.000317	0	0
86	SO2	PX	-.000317	-.000317	0	0
87	SO3	PX	-.000317	-.000317	0	0
88	SUPPORT1	PX	-.000844	-.000844	0	0
89	SUPPORT2	PX	-.000844	-.000844	0	0
90	R ANGLE1	PX	-.000422	-.000422	0	0
91	R ANGLE2	PX	-.000422	-.000422	0	0
92	R ANGLE3	PX	-.000422	-.000422	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	CONNANGLE1	PY	.000507	.000507	0	0
2	CONNANGLE2	PY	.000507	.000507	0	0
3	CONNANGLE3	PY	.000507	.000507	0	0
4	CORNER1	PY	.000844	.000844	0	0
5	CORNER2	PY	.000844	.000844	0	0
6	CORNER3	PY	.000844	.000844	0	0
7	FACE3	PY	.000844	.000844	0	0
8	FACE4	PY	.000844	.000844	0	0
9	FACE1	PY	.002	.002	0	0
10	FACE2	PY	.002	.002	0	0
11	FACE5	PY	.002	.002	0	0
12	FACE6	PY	.002	.002	0	0
13	LADDER1	PY	.000295	.000295	0	0
14	LADDER2	PY	.000295	.000295	0	0
15	LADDERPLATE1	PY	.000675	.000675	0	0
16	LADDERPLATE2	PY	.000675	.000675	0	0
17	M PIPE1	PY	.000152	.000152	0	0
18	M PIPE2	PY	.000152	.000152	0	0
19	M PIPE3	PY	.000152	.000152	0	0
20	M RAIL2	PY	.000152	.000152	0	0
21	M RAIL1	PY	.000304	.000304	0	0
22	M RAIL3	PY	.000304	.000304	0	0
23	MP ALPHA1	PY	.000481	.000481	0	0
24	MP ALPHA2	PY	.000481	.000481	0	0
25	MP ALPHA3	PY	.000481	.000481	0	0
26	MP BETA1	PY	.000481	.000481	0	0
27	MP BETA2	PY	.000481	.000481	0	0
28	MP BETA3	PY	.000481	.000481	0	0
29	MP GAMMA1	PY	.000481	.000481	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,%]
30	MP GAMMA2	PY	.000481	.000481	0	0
31	MP GAMMA3	PY	.000481	.000481	0	0
32	RUNG1	PY	4e-5	4e-5	0	0
33	RUNG2	PY	4e-5	4e-5	0	0
34	RUNG3	PY	4e-5	4e-5	0	0
35	RUNG4	PY	4e-5	4e-5	0	0
36	RUNG5	PY	4e-5	4e-5	0	0
37	RUNG6	PY	4e-5	4e-5	0	0
38	RUNG7	PY	4e-5	4e-5	0	0
39	SO1	PY	.000317	.000317	0	0
40	SO2	PY	.000317	.000317	0	0
41	SO3	PY	.000317	.000317	0	0
42	SUPPORT1	PY	.000844	.000844	0	0
43	SUPPORT2	PY	.000844	.000844	0	0
44	R ANGLE1	PY	.000422	.000422	0	0
45	R ANGLE2	PY	.000422	.000422	0	0
46	R ANGLE3	PY	.000422	.000422	0	0
47	CONNANGLE1	PX	-.000292	-.000292	0	0
48	CONNANGLE2	PX	-.000292	-.000292	0	0
49	CONNANGLE3	PX	-.000292	-.000292	0	0
50	CORNER1	PX	-.000487	-.000487	0	0
51	CORNER2	PX	-.000487	-.000487	0	0
52	CORNER3	PX	-.000487	-.000487	0	0
53	FACE3	PX	-.000487	-.000487	0	0
54	FACE4	PX	-.000487	-.000487	0	0
55	FACE1	PX	-.000975	-.000975	0	0
56	FACE2	PX	-.000975	-.000975	0	0
57	FACE5	PX	-.000975	-.000975	0	0
58	FACE6	PX	-.000975	-.000975	0	0
59	LADDER1	PX	-.000171	-.000171	0	0
60	LADDER2	PX	-.000171	-.000171	0	0
61	LADDERPLATE1	PX	-.00039	-.00039	0	0
62	LADDERPLATE2	PX	-.00039	-.00039	0	0
63	M PIPE1	PX	-8.8e-5	-8.8e-5	0	0
64	M PIPE2	PX	-8.8e-5	-8.8e-5	0	0
65	M PIPE3	PX	-8.8e-5	-8.8e-5	0	0
66	M RAIL2	PX	-8.8e-5	-8.8e-5	0	0
67	M RAIL1	PX	-.000176	-.000176	0	0
68	M RAIL3	PX	-.000176	-.000176	0	0
69	MP ALPHA1	PX	-.000278	-.000278	0	0
70	MP ALPHA2	PX	-.000278	-.000278	0	0
71	MP ALPHA3	PX	-.000278	-.000278	0	0
72	MP BETA1	PX	-.000278	-.000278	0	0
73	MP BETA2	PX	-.000278	-.000278	0	0
74	MP BETA3	PX	-.000278	-.000278	0	0
75	MP GAMMA1	PX	-.000278	-.000278	0	0
76	MP GAMMA2	PX	-.000278	-.000278	0	0
77	MP GAMMA3	PX	-.000278	-.000278	0	0
78	RUNG1	PX	-2.3e-5	-2.3e-5	0	0
79	RUNG2	PX	-2.3e-5	-2.3e-5	0	0
80	RUNG3	PX	-2.3e-5	-2.3e-5	0	0
81	RUNG4	PX	-2.3e-5	-2.3e-5	0	0
82	RUNG5	PX	-2.3e-5	-2.3e-5	0	0
83	RUNG6	PX	-2.3e-5	-2.3e-5	0	0
84	RUNG7	PX	-2.3e-5	-2.3e-5	0	0
85	SO1	PX	-.000183	-.000183	0	0
86	SO2	PX	-.000183	-.000183	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,%]
87	SO3	PX	-.000183	-.000183	0	0
88	SUPPORT1	PX	-.000487	-.000487	0	0
89	SUPPORT2	PX	-.000487	-.000487	0	0
90	R ANGLE1	PX	-.000244	-.000244	0	0
91	R ANGLE2	PX	-.000244	-.000244	0	0
92	R ANGLE3	PX	-.000244	-.000244	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	CONNANGLE1	PY	.000585	.000585	0	0
2	CONNANGLE2	PY	.000585	.000585	0	0
3	CONNANGLE3	PY	.000585	.000585	0	0
4	CORNER1	PY	.000975	.000975	0	0
5	CORNER2	PY	.000975	.000975	0	0
6	CORNER3	PY	.000975	.000975	0	0
7	FACE3	PY	.000975	.000975	0	0
8	FACE4	PY	.000975	.000975	0	0
9	FACE1	PY	.002	.002	0	0
10	FACE2	PY	.002	.002	0	0
11	FACE5	PY	.002	.002	0	0
12	FACE6	PY	.002	.002	0	0
13	LADDER1	PY	.000341	.000341	0	0
14	LADDER2	PY	.000341	.000341	0	0
15	LADDERPLATE1	PY	.00078	.00078	0	0
16	LADDERPLATE2	PY	.00078	.00078	0	0
17	M PIPE1	PY	.000176	.000176	0	0
18	M PIPE2	PY	.000176	.000176	0	0
19	M PIPE3	PY	.000176	.000176	0	0
20	M RAIL2	PY	.000176	.000176	0	0
21	M RAIL1	PY	.000351	.000351	0	0
22	M RAIL3	PY	.000351	.000351	0	0
23	MP ALPHA1	PY	.000556	.000556	0	0
24	MP ALPHA2	PY	.000556	.000556	0	0
25	MP ALPHA3	PY	.000556	.000556	0	0
26	MP BETA1	PY	.000556	.000556	0	0
27	MP BETA2	PY	.000556	.000556	0	0
28	MP BETA3	PY	.000556	.000556	0	0
29	MP GAMMA1	PY	.000556	.000556	0	0
30	MP GAMMA2	PY	.000556	.000556	0	0
31	MP GAMMA3	PY	.000556	.000556	0	0
32	RUNG1	PY	4.6e-5	4.6e-5	0	0
33	RUNG2	PY	4.6e-5	4.6e-5	0	0
34	RUNG3	PY	4.6e-5	4.6e-5	0	0
35	RUNG4	PY	4.6e-5	4.6e-5	0	0
36	RUNG5	PY	4.6e-5	4.6e-5	0	0
37	RUNG6	PY	4.6e-5	4.6e-5	0	0
38	RUNG7	PY	4.6e-5	4.6e-5	0	0
39	SO1	PY	.000366	.000366	0	0
40	SO2	PY	.000366	.000366	0	0
41	SO3	PY	.000366	.000366	0	0
42	SUPPORT1	PY	.000975	.000975	0	0
43	SUPPORT2	PY	.000975	.000975	0	0
44	R ANGLE1	PY	.000487	.000487	0	0
45	R ANGLE2	PY	.000487	.000487	0	0
46	R ANGLE3	PY	.000487	.000487	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	CONNANGLE1	PY	.000507	.000507	0	0
2	CONNANGLE2	PY	.000507	.000507	0	0
3	CONNANGLE3	PY	.000507	.000507	0	0
4	CORNER1	PY	.000844	.000844	0	0
5	CORNER2	PY	.000844	.000844	0	0
6	CORNER3	PY	.000844	.000844	0	0
7	FACE5	PY	.000844	.000844	0	0
8	FACE6	PY	.000844	.000844	0	0
9	FACE1	PY	.002	.002	0	0
10	FACE2	PY	.002	.002	0	0
11	FACE3	PY	.002	.002	0	0
12	FACE4	PY	.002	.002	0	0
13	LADDER1	PY	.000295	.000295	0	0
14	LADDER2	PY	.000295	.000295	0	0
15	LADDERPLATE1	PY	.000675	.000675	0	0
16	LADDERPLATE2	PY	.000675	.000675	0	0
17	M PIPE1	PY	.000152	.000152	0	0
18	M PIPE2	PY	.000152	.000152	0	0
19	M PIPE3	PY	.000152	.000152	0	0
20	M RAIL3	PY	.000152	.000152	0	0
21	M RAIL1	PY	.000304	.000304	0	0
22	M RAIL2	PY	.000304	.000304	0	0
23	MP ALPHA1	PY	.000481	.000481	0	0
24	MP ALPHA2	PY	.000481	.000481	0	0
25	MP ALPHA3	PY	.000481	.000481	0	0
26	MP BETA1	PY	.000481	.000481	0	0
27	MP BETA2	PY	.000481	.000481	0	0
28	MP BETA3	PY	.000481	.000481	0	0
29	MP GAMMA1	PY	.000481	.000481	0	0
30	MP GAMMA2	PY	.000481	.000481	0	0
31	MP GAMMA3	PY	.000481	.000481	0	0
32	RUNG1	PY	4e-5	4e-5	0	0
33	RUNG2	PY	4e-5	4e-5	0	0
34	RUNG3	PY	4e-5	4e-5	0	0
35	RUNG4	PY	4e-5	4e-5	0	0
36	RUNG5	PY	4e-5	4e-5	0	0
37	RUNG6	PY	4e-5	4e-5	0	0
38	RUNG7	PY	4e-5	4e-5	0	0
39	SO1	PY	.000317	.000317	0	0
40	SO2	PY	.000317	.000317	0	0
41	SO3	PY	.000317	.000317	0	0
42	SUPPORT1	PY	.000844	.000844	0	0
43	SUPPORT2	PY	.000844	.000844	0	0
44	R ANGLE1	PY	.000422	.000422	0	0
45	R ANGLE2	PY	.000422	.000422	0	0
46	R ANGLE3	PY	.000422	.000422	0	0
47	CONNANGLE1	PX	.000292	.000292	0	0
48	CONNANGLE2	PX	.000292	.000292	0	0
49	CONNANGLE3	PX	.000292	.000292	0	0
50	CORNER1	PX	.000487	.000487	0	0
51	CORNER2	PX	.000487	.000487	0	0
52	CORNER3	PX	.000487	.000487	0	0
53	FACE5	PX	.000487	.000487	0	0
54	FACE6	PX	.000487	.000487	0	0
55	FACE1	PX	.000975	.000975	0	0
56	FACE2	PX	.000975	.000975	0	0
57	FACE3	PX	.000975	.000975	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,%]
58	FACE4	PX	.000975	.000975	0	0
59	LADDER1	PX	.000171	.000171	0	0
60	LADDER2	PX	.000171	.000171	0	0
61	LADDERPLATE1	PX	.00039	.00039	0	0
62	LADDERPLATE2	PX	.00039	.00039	0	0
63	M PIPE1	PX	8.8e-5	8.8e-5	0	0
64	M PIPE2	PX	8.8e-5	8.8e-5	0	0
65	M PIPE3	PX	8.8e-5	8.8e-5	0	0
66	M RAIL3	PX	8.8e-5	8.8e-5	0	0
67	M RAIL1	PX	.000176	.000176	0	0
68	M RAIL2	PX	.000176	.000176	0	0
69	MP ALPHA1	PX	.000278	.000278	0	0
70	MP ALPHA2	PX	.000278	.000278	0	0
71	MP ALPHA3	PX	.000278	.000278	0	0
72	MP BETA1	PX	.000278	.000278	0	0
73	MP BETA2	PX	.000278	.000278	0	0
74	MP BETA3	PX	.000278	.000278	0	0
75	MP GAMMA1	PX	.000278	.000278	0	0
76	MP GAMMA2	PX	.000278	.000278	0	0
77	MP GAMMA3	PX	.000278	.000278	0	0
78	RUNG1	PX	2.3e-5	2.3e-5	0	0
79	RUNG2	PX	2.3e-5	2.3e-5	0	0
80	RUNG3	PX	2.3e-5	2.3e-5	0	0
81	RUNG4	PX	2.3e-5	2.3e-5	0	0
82	RUNG5	PX	2.3e-5	2.3e-5	0	0
83	RUNG6	PX	2.3e-5	2.3e-5	0	0
84	RUNG7	PX	2.3e-5	2.3e-5	0	0
85	SO1	PX	.000183	.000183	0	0
86	SO2	PX	.000183	.000183	0	0
87	SO3	PX	.000183	.000183	0	0
88	SUPPORT1	PX	.000487	.000487	0	0
89	SUPPORT2	PX	.000487	.000487	0	0
90	R ANGLE1	PX	.000244	.000244	0	0
91	R ANGLE2	PX	.000244	.000244	0	0
92	R ANGLE3	PX	.000244	.000244	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	CONNANGLE1	PY	.000292	.000292	0	0
2	CONNANGLE2	PY	.000292	.000292	0	0
3	CONNANGLE3	PY	.000292	.000292	0	0
4	CORNER1	PY	.000487	.000487	0	0
5	CORNER2	PY	.000487	.000487	0	0
6	CORNER3	PY	.000487	.000487	0	0
7	FACE5	PY	.000487	.000487	0	0
8	FACE6	PY	.000487	.000487	0	0
9	FACE1	PY	.000975	.000975	0	0
10	FACE2	PY	.000975	.000975	0	0
11	FACE3	PY	.000975	.000975	0	0
12	FACE4	PY	.000975	.000975	0	0
13	LADDER1	PY	.000171	.000171	0	0
14	LADDER2	PY	.000171	.000171	0	0
15	LADDERPLATE1	PY	.00039	.00039	0	0
16	LADDERPLATE2	PY	.00039	.00039	0	0
17	M PIPE1	PY	8.8e-5	8.8e-5	0	0
18	M PIPE2	PY	8.8e-5	8.8e-5	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	M PIPE3	PY	8.8e-5	8.8e-5	0	0
20	M RAIL3	PY	8.8e-5	8.8e-5	0	0
21	M RAIL1	PY	.000176	.000176	0	0
22	M RAIL2	PY	.000176	.000176	0	0
23	MP ALPHA1	PY	.000278	.000278	0	0
24	MP ALPHA2	PY	.000278	.000278	0	0
25	MP ALPHA3	PY	.000278	.000278	0	0
26	MP BETA1	PY	.000278	.000278	0	0
27	MP BETA2	PY	.000278	.000278	0	0
28	MP BETA3	PY	.000278	.000278	0	0
29	MP GAMMA1	PY	.000278	.000278	0	0
30	MP GAMMA2	PY	.000278	.000278	0	0
31	MP GAMMA3	PY	.000278	.000278	0	0
32	RUNG1	PY	2.3e-5	2.3e-5	0	0
33	RUNG2	PY	2.3e-5	2.3e-5	0	0
34	RUNG3	PY	2.3e-5	2.3e-5	0	0
35	RUNG4	PY	2.3e-5	2.3e-5	0	0
36	RUNG5	PY	2.3e-5	2.3e-5	0	0
37	RUNG6	PY	2.3e-5	2.3e-5	0	0
38	RUNG7	PY	2.3e-5	2.3e-5	0	0
39	SO1	PY	.000183	.000183	0	0
40	SO2	PY	.000183	.000183	0	0
41	SO3	PY	.000183	.000183	0	0
42	SUPPORT1	PY	.000487	.000487	0	0
43	SUPPORT2	PY	.000487	.000487	0	0
44	R ANGLE1	PY	.000244	.000244	0	0
45	R ANGLE2	PY	.000244	.000244	0	0
46	R ANGLE3	PY	.000244	.000244	0	0
47	CONNANGLE1	PX	.000507	.000507	0	0
48	CONNANGLE2	PX	.000507	.000507	0	0
49	CONNANGLE3	PX	.000507	.000507	0	0
50	CORNER1	PX	.000844	.000844	0	0
51	CORNER2	PX	.000844	.000844	0	0
52	CORNER3	PX	.000844	.000844	0	0
53	FACE5	PX	.000844	.000844	0	0
54	FACE6	PX	.000844	.000844	0	0
55	FACE1	PX	.002	.002	0	0
56	FACE2	PX	.002	.002	0	0
57	FACE3	PX	.002	.002	0	0
58	FACE4	PX	.002	.002	0	0
59	LADDER1	PX	.000295	.000295	0	0
60	LADDER2	PX	.000295	.000295	0	0
61	LADDERPLATE1	PX	.000675	.000675	0	0
62	LADDERPLATE2	PX	.000675	.000675	0	0
63	M PIPE1	PX	.000152	.000152	0	0
64	M PIPE2	PX	.000152	.000152	0	0
65	M PIPE3	PX	.000152	.000152	0	0
66	M RAIL3	PX	.000152	.000152	0	0
67	M RAIL1	PX	.000304	.000304	0	0
68	M RAIL2	PX	.000304	.000304	0	0
69	MP ALPHA1	PX	.000481	.000481	0	0
70	MP ALPHA2	PX	.000481	.000481	0	0
71	MP ALPHA3	PX	.000481	.000481	0	0
72	MP BETA1	PX	.000481	.000481	0	0
73	MP BETA2	PX	.000481	.000481	0	0
74	MP BETA3	PX	.000481	.000481	0	0
75	MP GAMMA1	PX	.000481	.000481	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,%]
76	MP GAMMA2	PX	.000481	.000481	0	0
77	MP GAMMA3	PX	.000481	.000481	0	0
78	RUNG1	PX	4e-5	4e-5	0	0
79	RUNG2	PX	4e-5	4e-5	0	0
80	RUNG3	PX	4e-5	4e-5	0	0
81	RUNG4	PX	4e-5	4e-5	0	0
82	RUNG5	PX	4e-5	4e-5	0	0
83	RUNG6	PX	4e-5	4e-5	0	0
84	RUNG7	PX	4e-5	4e-5	0	0
85	SO1	PX	.000317	.000317	0	0
86	SO2	PX	.000317	.000317	0	0
87	SO3	PX	.000317	.000317	0	0
88	SUPPORT1	PX	.000844	.000844	0	0
89	SUPPORT2	PX	.000844	.000844	0	0
90	R ANGLE1	PX	.000422	.000422	0	0
91	R ANGLE2	PX	.000422	.000422	0	0
92	R ANGLE3	PX	.000422	.000422	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,%]
1	CONNANGLE1	PX	.000585	.000585	0	0
2	CONNANGLE2	PX	.000585	.000585	0	0
3	CONNANGLE3	PX	.000585	.000585	0	0
4	CORNER1	PX	.000975	.000975	0	0
5	CORNER2	PX	.000975	.000975	0	0
6	CORNER3	PX	.000975	.000975	0	0
7	FACE5	PX	.000975	.000975	0	0
8	FACE6	PX	.000975	.000975	0	0
9	FACE1	PX	.002	.002	0	0
10	FACE2	PX	.002	.002	0	0
11	FACE3	PX	.002	.002	0	0
12	FACE4	PX	.002	.002	0	0
13	LADDER1	PX	.000341	.000341	0	0
14	LADDER2	PX	.000341	.000341	0	0
15	LADDERPLATE1	PX	.00078	.00078	0	0
16	LADDERPLATE2	PX	.00078	.00078	0	0
17	M PIPE1	PX	.000176	.000176	0	0
18	M PIPE2	PX	.000176	.000176	0	0
19	M PIPE3	PX	.000176	.000176	0	0
20	M RAIL3	PX	.000176	.000176	0	0
21	M RAIL1	PX	.000351	.000351	0	0
22	M RAIL2	PX	.000351	.000351	0	0
23	MP ALPHA1	PX	.000556	.000556	0	0
24	MP ALPHA2	PX	.000556	.000556	0	0
25	MP ALPHA3	PX	.000556	.000556	0	0
26	MP BETA1	PX	.000556	.000556	0	0
27	MP BETA2	PX	.000556	.000556	0	0
28	MP BETA3	PX	.000556	.000556	0	0
29	MP GAMMA1	PX	.000556	.000556	0	0
30	MP GAMMA2	PX	.000556	.000556	0	0
31	MP GAMMA3	PX	.000556	.000556	0	0
32	RUNG1	PX	4.6e-5	4.6e-5	0	0
33	RUNG2	PX	4.6e-5	4.6e-5	0	0
34	RUNG3	PX	4.6e-5	4.6e-5	0	0
35	RUNG4	PX	4.6e-5	4.6e-5	0	0
36	RUNG5	PX	4.6e-5	4.6e-5	0	0

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,%]
37	RUNG6	PX	4.6e-5	4.6e-5	0	0
38	RUNG7	PX	4.6e-5	4.6e-5	0	0
39	SO1	PX	.000366	.000366	0	0
40	SO2	PX	.000366	.000366	0	0
41	SO3	PX	.000366	.000366	0	0
42	SUPPORT1	PX	.000975	.000975	0	0
43	SUPPORT2	PX	.000975	.000975	0	0
44	R ANGLE1	PX	.000487	.000487	0	0
45	R ANGLE2	PX	.000487	.000487	0	0
46	R ANGLE3	PX	.000487	.000487	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	CONNANGLE1	PY	-.000292	-.000292	0	0
2	CONNANGLE2	PY	-.000292	-.000292	0	0
3	CONNANGLE3	PY	-.000292	-.000292	0	0
4	CORNER1	PY	-.000487	-.000487	0	0
5	CORNER2	PY	-.000487	-.000487	0	0
6	CORNER3	PY	-.000487	-.000487	0	0
7	FACE5	PY	-.000487	-.000487	0	0
8	FACE6	PY	-.000487	-.000487	0	0
9	FACE1	PY	-.000975	-.000975	0	0
10	FACE2	PY	-.000975	-.000975	0	0
11	FACE3	PY	-.000975	-.000975	0	0
12	FACE4	PY	-.000975	-.000975	0	0
13	LADDER1	PY	-.000171	-.000171	0	0
14	LADDER2	PY	-.000171	-.000171	0	0
15	LADDERPLATE1	PY	-.00039	-.00039	0	0
16	LADDERPLATE2	PY	-.00039	-.00039	0	0
17	M PIPE1	PY	-8.8e-5	-8.8e-5	0	0
18	M PIPE2	PY	-8.8e-5	-8.8e-5	0	0
19	M PIPE3	PY	-8.8e-5	-8.8e-5	0	0
20	M RAIL3	PY	-8.8e-5	-8.8e-5	0	0
21	M RAIL1	PY	-.000176	-.000176	0	0
22	M RAIL2	PY	-.000176	-.000176	0	0
23	MP ALPHA1	PY	-.000278	-.000278	0	0
24	MP ALPHA2	PY	-.000278	-.000278	0	0
25	MP ALPHA3	PY	-.000278	-.000278	0	0
26	MP BETA1	PY	-.000278	-.000278	0	0
27	MP BETA2	PY	-.000278	-.000278	0	0
28	MP BETA3	PY	-.000278	-.000278	0	0
29	MP GAMMA1	PY	-.000278	-.000278	0	0
30	MP GAMMA2	PY	-.000278	-.000278	0	0
31	MP GAMMA3	PY	-.000278	-.000278	0	0
32	RUNG1	PY	-2.3e-5	-2.3e-5	0	0
33	RUNG2	PY	-2.3e-5	-2.3e-5	0	0
34	RUNG3	PY	-2.3e-5	-2.3e-5	0	0
35	RUNG4	PY	-2.3e-5	-2.3e-5	0	0
36	RUNG5	PY	-2.3e-5	-2.3e-5	0	0
37	RUNG6	PY	-2.3e-5	-2.3e-5	0	0
38	RUNG7	PY	-2.3e-5	-2.3e-5	0	0
39	SO1	PY	-.000183	-.000183	0	0
40	SO2	PY	-.000183	-.000183	0	0
41	SO3	PY	-.000183	-.000183	0	0
42	SUPPORT1	PY	-.000487	-.000487	0	0
43	SUPPORT2	PY	-.000487	-.000487	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,%]
44	R ANGLE1	PY	-.000244	-.000244	0	0
45	R ANGLE2	PY	-.000244	-.000244	0	0
46	R ANGLE3	PY	-.000244	-.000244	0	0
47	CONNANGLE1	PX	.000507	.000507	0	0
48	CONNANGLE2	PX	.000507	.000507	0	0
49	CONNANGLE3	PX	.000507	.000507	0	0
50	CORNER1	PX	.000844	.000844	0	0
51	CORNER2	PX	.000844	.000844	0	0
52	CORNER3	PX	.000844	.000844	0	0
53	FACE5	PX	.000844	.000844	0	0
54	FACE6	PX	.000844	.000844	0	0
55	FACE1	PX	.002	.002	0	0
56	FACE2	PX	.002	.002	0	0
57	FACE3	PX	.002	.002	0	0
58	FACE4	PX	.002	.002	0	0
59	LADDER1	PX	.000295	.000295	0	0
60	LADDER2	PX	.000295	.000295	0	0
61	LADDERPLATE1	PX	.000675	.000675	0	0
62	LADDERPLATE2	PX	.000675	.000675	0	0
63	M PIPE1	PX	.000152	.000152	0	0
64	M PIPE2	PX	.000152	.000152	0	0
65	M PIPE3	PX	.000152	.000152	0	0
66	M RAIL3	PX	.000152	.000152	0	0
67	M RAIL1	PX	.000304	.000304	0	0
68	M RAIL2	PX	.000304	.000304	0	0
69	MP ALPHA1	PX	.000481	.000481	0	0
70	MP ALPHA2	PX	.000481	.000481	0	0
71	MP ALPHA3	PX	.000481	.000481	0	0
72	MP BETA1	PX	.000481	.000481	0	0
73	MP BETA2	PX	.000481	.000481	0	0
74	MP BETA3	PX	.000481	.000481	0	0
75	MP GAMMA1	PX	.000481	.000481	0	0
76	MP GAMMA2	PX	.000481	.000481	0	0
77	MP GAMMA3	PX	.000481	.000481	0	0
78	RUNG1	PX	4e-5	4e-5	0	0
79	RUNG2	PX	4e-5	4e-5	0	0
80	RUNG3	PX	4e-5	4e-5	0	0
81	RUNG4	PX	4e-5	4e-5	0	0
82	RUNG5	PX	4e-5	4e-5	0	0
83	RUNG6	PX	4e-5	4e-5	0	0
84	RUNG7	PX	4e-5	4e-5	0	0
85	SO1	PX	.000317	.000317	0	0
86	SO2	PX	.000317	.000317	0	0
87	SO3	PX	.000317	.000317	0	0
88	SUPPORT1	PX	.000844	.000844	0	0
89	SUPPORT2	PX	.000844	.000844	0	0
90	R ANGLE1	PX	.000422	.000422	0	0
91	R ANGLE2	PX	.000422	.000422	0	0
92	R ANGLE3	PX	.000422	.000422	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	CONNANGLE1	PY	-.000507	-.000507	0	0
2	CONNANGLE2	PY	-.000507	-.000507	0	0
3	CONNANGLE3	PY	-.000507	-.000507	0	0
4	CORNER1	PY	-.000844	-.000844	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,%]
5	CORNER2	PY	-.000844	-.000844	0	0
6	CORNER3	PY	-.000844	-.000844	0	0
7	FACE1	PY	-.000844	-.000844	0	0
8	FACE2	PY	-.000844	-.000844	0	0
9	FACE3	PY	-.002	-.002	0	0
10	FACE4	PY	-.002	-.002	0	0
11	FACE5	PY	-.002	-.002	0	0
12	FACE6	PY	-.002	-.002	0	0
13	LADDER1	PY	-.000295	-.000295	0	0
14	LADDER2	PY	-.000295	-.000295	0	0
15	LADDERPLATE1	PY	-.000675	-.000675	0	0
16	LADDERPLATE2	PY	-.000675	-.000675	0	0
17	M PIPE1	PY	-.000152	-.000152	0	0
18	M PIPE2	PY	-.000152	-.000152	0	0
19	M PIPE3	PY	-.000152	-.000152	0	0
20	M RAIL1	PY	-.000152	-.000152	0	0
21	M RAIL2	PY	-.000304	-.000304	0	0
22	M RAIL3	PY	-.000304	-.000304	0	0
23	MP ALPHA1	PY	-.000481	-.000481	0	0
24	MP ALPHA2	PY	-.000481	-.000481	0	0
25	MP ALPHA3	PY	-.000481	-.000481	0	0
26	MP BETA1	PY	-.000481	-.000481	0	0
27	MP BETA2	PY	-.000481	-.000481	0	0
28	MP BETA3	PY	-.000481	-.000481	0	0
29	MP GAMMA1	PY	-.000481	-.000481	0	0
30	MP GAMMA2	PY	-.000481	-.000481	0	0
31	MP GAMMA3	PY	-.000481	-.000481	0	0
32	RUNG1	PY	-4e-5	-4e-5	0	0
33	RUNG2	PY	-4e-5	-4e-5	0	0
34	RUNG3	PY	-4e-5	-4e-5	0	0
35	RUNG4	PY	-4e-5	-4e-5	0	0
36	RUNG5	PY	-4e-5	-4e-5	0	0
37	RUNG6	PY	-4e-5	-4e-5	0	0
38	RUNG7	PY	-4e-5	-4e-5	0	0
39	SO1	PY	-.000317	-.000317	0	0
40	SO2	PY	-.000317	-.000317	0	0
41	SO3	PY	-.000317	-.000317	0	0
42	SUPPORT1	PY	-.000844	-.000844	0	0
43	SUPPORT2	PY	-.000844	-.000844	0	0
44	R ANGLE1	PY	-.000422	-.000422	0	0
45	R ANGLE2	PY	-.000422	-.000422	0	0
46	R ANGLE3	PY	-.000422	-.000422	0	0
47	CONNANGLE1	PX	.000292	.000292	0	0
48	CONNANGLE2	PX	.000292	.000292	0	0
49	CONNANGLE3	PX	.000292	.000292	0	0
50	CORNER1	PX	.000487	.000487	0	0
51	CORNER2	PX	.000487	.000487	0	0
52	CORNER3	PX	.000487	.000487	0	0
53	FACE1	PX	.000487	.000487	0	0
54	FACE2	PX	.000487	.000487	0	0
55	FACE3	PX	.000975	.000975	0	0
56	FACE4	PX	.000975	.000975	0	0
57	FACE5	PX	.000975	.000975	0	0
58	FACE6	PX	.000975	.000975	0	0
59	LADDER1	PX	.000171	.000171	0	0
60	LADDER2	PX	.000171	.000171	0	0
61	LADDERPLATE1	PX	.00039	.00039	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,%]
62	LADDERPLATE2	PX	.00039	.00039	0	0
63	M PIPE1	PX	8.8e-5	8.8e-5	0	0
64	M PIPE2	PX	8.8e-5	8.8e-5	0	0
65	M PIPE3	PX	8.8e-5	8.8e-5	0	0
66	M RAIL1	PX	8.8e-5	8.8e-5	0	0
67	M RAIL2	PX	.000176	.000176	0	0
68	M RAIL3	PX	.000176	.000176	0	0
69	MP ALPHA1	PX	.000278	.000278	0	0
70	MP ALPHA2	PX	.000278	.000278	0	0
71	MP ALPHA3	PX	.000278	.000278	0	0
72	MP BETA1	PX	.000278	.000278	0	0
73	MP BETA2	PX	.000278	.000278	0	0
74	MP BETA3	PX	.000278	.000278	0	0
75	MP GAMMA1	PX	.000278	.000278	0	0
76	MP GAMMA2	PX	.000278	.000278	0	0
77	MP GAMMA3	PX	.000278	.000278	0	0
78	RUNG1	PX	2.3e-5	2.3e-5	0	0
79	RUNG2	PX	2.3e-5	2.3e-5	0	0
80	RUNG3	PX	2.3e-5	2.3e-5	0	0
81	RUNG4	PX	2.3e-5	2.3e-5	0	0
82	RUNG5	PX	2.3e-5	2.3e-5	0	0
83	RUNG6	PX	2.3e-5	2.3e-5	0	0
84	RUNG7	PX	2.3e-5	2.3e-5	0	0
85	SO1	PX	.000183	.000183	0	0
86	SO2	PX	.000183	.000183	0	0
87	SO3	PX	.000183	.000183	0	0
88	SUPPORT1	PX	.000487	.000487	0	0
89	SUPPORT2	PX	.000487	.000487	0	0
90	R ANGLE1	PX	.000244	.000244	0	0
91	R ANGLE2	PX	.000244	.000244	0	0
92	R ANGLE3	PX	.000244	.000244	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	CONNANGLE1	Z	-.008	-.008	0	0
2	CONNANGLE2	Z	-.008	-.008	0	0
3	CONNANGLE3	Z	-.008	-.008	0	0
4	CORNER1	Z	-.011	-.011	0	0
5	CORNER2	Z	-.011	-.011	0	0
6	CORNER3	Z	-.011	-.011	0	0
7	FACE1	Z	-.011	-.011	0	0
8	FACE2	Z	-.011	-.011	0	0
9	FACE3	Z	-.011	-.011	0	0
10	FACE4	Z	-.011	-.011	0	0
11	FACE5	Z	-.011	-.011	0	0
12	FACE6	Z	-.011	-.011	0	0
13	LADDER1	Z	-.006	-.006	0	0
14	LADDER2	Z	-.006	-.006	0	0
15	LADDERPLATE1	Z	-.006	-.006	0	0
16	LADDERPLATE2	Z	-.006	-.006	0	0
17	M PIPE1	Z	-.005	-.005	0	0
18	M PIPE2	Z	-.005	-.005	0	0
19	M PIPE3	Z	-.005	-.005	0	0
20	M RAIL1	Z	-.005	-.005	0	0
21	M RAIL2	Z	-.005	-.005	0	0
22	M RAIL3	Z	-.005	-.005	0	0

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
23	MP ALPHA1	Z	-.005	-.005	0	0
24	MP ALPHA2	Z	-.005	-.005	0	0
25	MP ALPHA3	Z	-.005	-.005	0	0
26	MP BETA1	Z	-.005	-.005	0	0
27	MP BETA2	Z	-.005	-.005	0	0
28	MP BETA3	Z	-.005	-.005	0	0
29	MP GAMMA1	Z	-.005	-.005	0	0
30	MP GAMMA2	Z	-.005	-.005	0	0
31	MP GAMMA3	Z	-.005	-.005	0	0
32	RUNG1	Z	-.003	-.003	0	0
33	RUNG2	Z	-.003	-.003	0	0
34	RUNG3	Z	-.003	-.003	0	0
35	RUNG4	Z	-.003	-.003	0	0
36	RUNG5	Z	-.003	-.003	0	0
37	RUNG6	Z	-.003	-.003	0	0
38	RUNG7	Z	-.003	-.003	0	0
39	SO1	Z	-.008	-.008	0	0
40	SO2	Z	-.008	-.008	0	0
41	SO3	Z	-.008	-.008	0	0
42	SUPPORT1	Z	-.011	-.011	0	0
43	SUPPORT2	Z	-.011	-.011	0	0
44	R ANGLE1	Z	-.007	-.007	0	0
45	R ANGLE2	Z	-.007	-.007	0	0
46	R ANGLE3	Z	-.007	-.007	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	CONNANGLE1	PY	-.002	-.002	0	0
2	CONNANGLE2	PY	-.002	-.002	0	0
3	CONNANGLE3	PY	-.002	-.002	0	0
4	CORNER1	PY	-.003	-.003	0	0
5	CORNER2	PY	-.003	-.003	0	0
6	CORNER3	PY	-.003	-.003	0	0
7	FACE1	PY	-.003	-.003	0	0
8	FACE2	PY	-.003	-.003	0	0
9	FACE3	PY	-.006	-.006	0	0
10	FACE4	PY	-.006	-.006	0	0
11	FACE5	PY	-.006	-.006	0	0
12	FACE6	PY	-.006	-.006	0	0
13	LADDER1	PY	-.002	-.002	0	0
14	LADDER2	PY	-.002	-.002	0	0
15	LADDERPLATE1	PY	-.003	-.003	0	0
16	LADDERPLATE2	PY	-.003	-.003	0	0
17	M PIPE1	PY	-.001	-.001	0	0
18	M PIPE2	PY	-.001	-.001	0	0
19	M PIPE3	PY	-.001	-.001	0	0
20	M RAIL1	PY	-.001	-.001	0	0
21	M RAIL2	PY	-.002	-.002	0	0
22	M RAIL3	PY	-.002	-.002	0	0
23	MP ALPHA1	PY	-.003	-.003	0	0
24	MP ALPHA2	PY	-.003	-.003	0	0
25	MP ALPHA3	PY	-.003	-.003	0	0
26	MP BETA1	PY	-.003	-.003	0	0
27	MP BETA2	PY	-.003	-.003	0	0
28	MP BETA3	PY	-.003	-.003	0	0
29	MP GAMMA1	PY	-.003	-.003	0	0

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
30	MP GAMMA2	PY	-.003	-.003	0	0
31	MP GAMMA3	PY	-.003	-.003	0	0
32	RUNG1	PY	-.000729	-.000729	0	0
33	RUNG2	PY	-.000729	-.000729	0	0
34	RUNG3	PY	-.000729	-.000729	0	0
35	RUNG4	PY	-.000729	-.000729	0	0
36	RUNG5	PY	-.000729	-.000729	0	0
37	RUNG6	PY	-.000729	-.000729	0	0
38	RUNG7	PY	-.000729	-.000729	0	0
39	SO1	PY	-.001	-.001	0	0
40	SO2	PY	-.001	-.001	0	0
41	SO3	PY	-.001	-.001	0	0
42	SUPPORT1	PY	-.003	-.003	0	0
43	SUPPORT2	PY	-.003	-.003	0	0
44	R ANGLE1	PY	-.002	-.002	0	0
45	R ANGLE2	PY	-.002	-.002	0	0
46	R ANGLE3	PY	-.002	-.002	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	CONNANGLE1	PY	-.002	-.002	0	0
2	CONNANGLE2	PY	-.002	-.002	0	0
3	CONNANGLE3	PY	-.002	-.002	0	0
4	CORNER1	PY	-.003	-.003	0	0
5	CORNER2	PY	-.003	-.003	0	0
6	CORNER3	PY	-.003	-.003	0	0
7	FACE1	PY	-.003	-.003	0	0
8	FACE2	PY	-.003	-.003	0	0
9	FACE3	PY	-.005	-.005	0	0
10	FACE4	PY	-.005	-.005	0	0
11	FACE5	PY	-.005	-.005	0	0
12	FACE6	PY	-.005	-.005	0	0
13	LADDER1	PY	-.001	-.001	0	0
14	LADDER2	PY	-.001	-.001	0	0
15	LADDERPLATE1	PY	-.002	-.002	0	0
16	LADDERPLATE2	PY	-.002	-.002	0	0
17	M PIPE1	PY	-.000996	-.000996	0	0
18	M PIPE2	PY	-.000996	-.000996	0	0
19	M PIPE3	PY	-.000996	-.000996	0	0
20	M RAIL1	PY	-.000996	-.000996	0	0
21	M RAIL2	PY	-.002	-.002	0	0
22	M RAIL3	PY	-.002	-.002	0	0
23	MP ALPHA1	PY	-.003	-.003	0	0
24	MP ALPHA2	PY	-.003	-.003	0	0
25	MP ALPHA3	PY	-.003	-.003	0	0
26	MP BETA1	PY	-.003	-.003	0	0
27	MP BETA2	PY	-.003	-.003	0	0
28	MP BETA3	PY	-.003	-.003	0	0
29	MP GAMMA1	PY	-.003	-.003	0	0
30	MP GAMMA2	PY	-.003	-.003	0	0
31	MP GAMMA3	PY	-.003	-.003	0	0
32	RUNG1	PY	-.000631	-.000631	0	0
33	RUNG2	PY	-.000631	-.000631	0	0
34	RUNG3	PY	-.000631	-.000631	0	0
35	RUNG4	PY	-.000631	-.000631	0	0
36	RUNG5	PY	-.000631	-.000631	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,%]
37	RUNG6	PY	-.000631	-.000631	0	0
38	RUNG7	PY	-.000631	-.000631	0	0
39	SO1	PY	-.001	-.001	0	0
40	SO2	PY	-.001	-.001	0	0
41	SO3	PY	-.001	-.001	0	0
42	SUPPORT1	PY	-.003	-.003	0	0
43	SUPPORT2	PY	-.003	-.003	0	0
44	R ANGLE1	PY	-.002	-.002	0	0
45	R ANGLE2	PY	-.002	-.002	0	0
46	R ANGLE3	PY	-.002	-.002	0	0
47	CONNANGLE1	PX	-.001	-.001	0	0
48	CONNANGLE2	PX	-.001	-.001	0	0
49	CONNANGLE3	PX	-.001	-.001	0	0
50	CORNER1	PX	-.001	-.001	0	0
51	CORNER2	PX	-.001	-.001	0	0
52	CORNER3	PX	-.001	-.001	0	0
53	FACE1	PX	-.001	-.001	0	0
54	FACE2	PX	-.001	-.001	0	0
55	FACE3	PX	-.003	-.003	0	0
56	FACE4	PX	-.003	-.003	0	0
57	FACE5	PX	-.003	-.003	0	0
58	FACE6	PX	-.003	-.003	0	0
59	LADDER1	PX	-.000833	-.000833	0	0
60	LADDER2	PX	-.000833	-.000833	0	0
61	LADDERPLATE1	PX	-.001	-.001	0	0
62	LADDERPLATE2	PX	-.001	-.001	0	0
63	M PIPE1	PX	-.000575	-.000575	0	0
64	M PIPE2	PX	-.000575	-.000575	0	0
65	M PIPE3	PX	-.000575	-.000575	0	0
66	M RAIL1	PX	-.000575	-.000575	0	0
67	M RAIL2	PX	-.001	-.001	0	0
68	M RAIL3	PX	-.001	-.001	0	0
69	MP ALPHA1	PX	-.002	-.002	0	0
70	MP ALPHA2	PX	-.002	-.002	0	0
71	MP ALPHA3	PX	-.002	-.002	0	0
72	MP BETA1	PX	-.002	-.002	0	0
73	MP BETA2	PX	-.002	-.002	0	0
74	MP BETA3	PX	-.002	-.002	0	0
75	MP GAMMA1	PX	-.002	-.002	0	0
76	MP GAMMA2	PX	-.002	-.002	0	0
77	MP GAMMA3	PX	-.002	-.002	0	0
78	RUNG1	PX	-.000364	-.000364	0	0
79	RUNG2	PX	-.000364	-.000364	0	0
80	RUNG3	PX	-.000364	-.000364	0	0
81	RUNG4	PX	-.000364	-.000364	0	0
82	RUNG5	PX	-.000364	-.000364	0	0
83	RUNG6	PX	-.000364	-.000364	0	0
84	RUNG7	PX	-.000364	-.000364	0	0
85	SO1	PX	-.000677	-.000677	0	0
86	SO2	PX	-.000677	-.000677	0	0
87	SO3	PX	-.000677	-.000677	0	0
88	SUPPORT1	PX	-.001	-.001	0	0
89	SUPPORT2	PX	-.001	-.001	0	0
90	R ANGLE1	PX	-.000983	-.000983	0	0
91	R ANGLE2	PX	-.000983	-.000983	0	0
92	R ANGLE3	PX	-.000983	-.000983	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	CONNANGLE1	PY	-.001	-.001	0	0
2	CONNANGLE2	PY	-.001	-.001	0	0
3	CONNANGLE3	PY	-.001	-.001	0	0
4	CORNER1	PY	-.001	-.001	0	0
5	CORNER2	PY	-.001	-.001	0	0
6	CORNER3	PY	-.001	-.001	0	0
7	FACE1	PY	-.001	-.001	0	0
8	FACE2	PY	-.001	-.001	0	0
9	FACE3	PY	-.003	-.003	0	0
10	FACE4	PY	-.003	-.003	0	0
11	FACE5	PY	-.003	-.003	0	0
12	FACE6	PY	-.003	-.003	0	0
13	LADDER1	PY	-.000833	-.000833	0	0
14	LADDER2	PY	-.000833	-.000833	0	0
15	LADDERPLATE1	PY	-.001	-.001	0	0
16	LADDERPLATE2	PY	-.001	-.001	0	0
17	M PIPE1	PY	-.000575	-.000575	0	0
18	M PIPE2	PY	-.000575	-.000575	0	0
19	M PIPE3	PY	-.000575	-.000575	0	0
20	M RAIL1	PY	-.000575	-.000575	0	0
21	M RAIL2	PY	-.001	-.001	0	0
22	M RAIL3	PY	-.001	-.001	0	0
23	MP ALPHA1	PY	-.002	-.002	0	0
24	MP ALPHA2	PY	-.002	-.002	0	0
25	MP ALPHA3	PY	-.002	-.002	0	0
26	MP BETA1	PY	-.002	-.002	0	0
27	MP BETA2	PY	-.002	-.002	0	0
28	MP BETA3	PY	-.002	-.002	0	0
29	MP GAMMA1	PY	-.002	-.002	0	0
30	MP GAMMA2	PY	-.002	-.002	0	0
31	MP GAMMA3	PY	-.002	-.002	0	0
32	RUNG1	PY	-.000364	-.000364	0	0
33	RUNG2	PY	-.000364	-.000364	0	0
34	RUNG3	PY	-.000364	-.000364	0	0
35	RUNG4	PY	-.000364	-.000364	0	0
36	RUNG5	PY	-.000364	-.000364	0	0
37	RUNG6	PY	-.000364	-.000364	0	0
38	RUNG7	PY	-.000364	-.000364	0	0
39	SO1	PY	-.000677	-.000677	0	0
40	SO2	PY	-.000677	-.000677	0	0
41	SO3	PY	-.000677	-.000677	0	0
42	SUPPORT1	PY	-.001	-.001	0	0
43	SUPPORT2	PY	-.001	-.001	0	0
44	R ANGLE1	PY	-.000983	-.000983	0	0
45	R ANGLE2	PY	-.000983	-.000983	0	0
46	R ANGLE3	PY	-.000983	-.000983	0	0
47	CONNANGLE1	PX	-.002	-.002	0	0
48	CONNANGLE2	PX	-.002	-.002	0	0
49	CONNANGLE3	PX	-.002	-.002	0	0
50	CORNER1	PX	-.003	-.003	0	0
51	CORNER2	PX	-.003	-.003	0	0
52	CORNER3	PX	-.003	-.003	0	0
53	FACE1	PX	-.003	-.003	0	0
54	FACE2	PX	-.003	-.003	0	0
55	FACE3	PX	-.005	-.005	0	0
56	FACE4	PX	-.005	-.005	0	0
57	FACE5	PX	-.005	-.005	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	FACE6	PX	-.005	-.005	0	0
59	LADDER1	PX	-.001	-.001	0	0
60	LADDER2	PX	-.001	-.001	0	0
61	LADDERPLATE1	PX	-.002	-.002	0	0
62	LADDERPLATE2	PX	-.002	-.002	0	0
63	M PIPE1	PX	-.000996	-.000996	0	0
64	M PIPE2	PX	-.000996	-.000996	0	0
65	M PIPE3	PX	-.000996	-.000996	0	0
66	M RAIL1	PX	-.000996	-.000996	0	0
67	M RAIL2	PX	-.002	-.002	0	0
68	M RAIL3	PX	-.002	-.002	0	0
69	MP ALPHA1	PX	-.003	-.003	0	0
70	MP ALPHA2	PX	-.003	-.003	0	0
71	MP ALPHA3	PX	-.003	-.003	0	0
72	MP BETA1	PX	-.003	-.003	0	0
73	MP BETA2	PX	-.003	-.003	0	0
74	MP BETA3	PX	-.003	-.003	0	0
75	MP GAMMA1	PX	-.003	-.003	0	0
76	MP GAMMA2	PX	-.003	-.003	0	0
77	MP GAMMA3	PX	-.003	-.003	0	0
78	RUNG1	PX	-.000631	-.000631	0	0
79	RUNG2	PX	-.000631	-.000631	0	0
80	RUNG3	PX	-.000631	-.000631	0	0
81	RUNG4	PX	-.000631	-.000631	0	0
82	RUNG5	PX	-.000631	-.000631	0	0
83	RUNG6	PX	-.000631	-.000631	0	0
84	RUNG7	PX	-.000631	-.000631	0	0
85	SO1	PX	-.001	-.001	0	0
86	SO2	PX	-.001	-.001	0	0
87	SO3	PX	-.001	-.001	0	0
88	SUPPORT1	PX	-.003	-.003	0	0
89	SUPPORT2	PX	-.003	-.003	0	0
90	R ANGLE1	PX	-.002	-.002	0	0
91	R ANGLE2	PX	-.002	-.002	0	0
92	R ANGLE3	PX	-.002	-.002	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	CONNANGLE1	PX	-.002	-.002	0	0
2	CONNANGLE2	PX	-.002	-.002	0	0
3	CONNANGLE3	PX	-.002	-.002	0	0
4	CORNER1	PX	-.003	-.003	0	0
5	CORNER2	PX	-.003	-.003	0	0
6	CORNER3	PX	-.003	-.003	0	0
7	FACE3	PX	-.003	-.003	0	0
8	FACE4	PX	-.003	-.003	0	0
9	FACE1	PX	-.006	-.006	0	0
10	FACE2	PX	-.006	-.006	0	0
11	FACE5	PX	-.006	-.006	0	0
12	FACE6	PX	-.006	-.006	0	0
13	LADDER1	PX	-.002	-.002	0	0
14	LADDER2	PX	-.002	-.002	0	0
15	LADDERPLATE1	PX	-.003	-.003	0	0
16	LADDERPLATE2	PX	-.003	-.003	0	0
17	M PIPE1	PX	-.001	-.001	0	0
18	M PIPE2	PX	-.001	-.001	0	0

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
19	M PIPE3	PX	-.001	-.001	0	0
20	M RAIL2	PX	-.001	-.001	0	0
21	M RAIL1	PX	-.002	-.002	0	0
22	M RAIL3	PX	-.002	-.002	0	0
23	MP ALPHA1	PX	-.003	-.003	0	0
24	MP ALPHA2	PX	-.003	-.003	0	0
25	MP ALPHA3	PX	-.003	-.003	0	0
26	MP BETA1	PX	-.003	-.003	0	0
27	MP BETA2	PX	-.003	-.003	0	0
28	MP BETA3	PX	-.003	-.003	0	0
29	MP GAMMA1	PX	-.003	-.003	0	0
30	MP GAMMA2	PX	-.003	-.003	0	0
31	MP GAMMA3	PX	-.003	-.003	0	0
32	RUNG1	PX	-.000729	-.000729	0	0
33	RUNG2	PX	-.000729	-.000729	0	0
34	RUNG3	PX	-.000729	-.000729	0	0
35	RUNG4	PX	-.000729	-.000729	0	0
36	RUNG5	PX	-.000729	-.000729	0	0
37	RUNG6	PX	-.000729	-.000729	0	0
38	RUNG7	PX	-.000729	-.000729	0	0
39	SO1	PX	-.001	-.001	0	0
40	SO2	PX	-.001	-.001	0	0
41	SO3	PX	-.001	-.001	0	0
42	SUPPORT1	PX	-.003	-.003	0	0
43	SUPPORT2	PX	-.003	-.003	0	0
44	R ANGLE1	PX	-.002	-.002	0	0
45	R ANGLE2	PX	-.002	-.002	0	0
46	R ANGLE3	PX	-.002	-.002	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	CONNANGLE1	PY	.001	.001	0	0
2	CONNANGLE2	PY	.001	.001	0	0
3	CONNANGLE3	PY	.001	.001	0	0
4	CORNER1	PY	.001	.001	0	0
5	CORNER2	PY	.001	.001	0	0
6	CORNER3	PY	.001	.001	0	0
7	FACE3	PY	.001	.001	0	0
8	FACE4	PY	.001	.001	0	0
9	FACE1	PY	.003	.003	0	0
10	FACE2	PY	.003	.003	0	0
11	FACE5	PY	.003	.003	0	0
12	FACE6	PY	.003	.003	0	0
13	LADDER1	PY	.000833	.000833	0	0
14	LADDER2	PY	.000833	.000833	0	0
15	LADDERPLATE1	PY	.001	.001	0	0
16	LADDERPLATE2	PY	.001	.001	0	0
17	M PIPE1	PY	.000575	.000575	0	0
18	M PIPE2	PY	.000575	.000575	0	0
19	M PIPE3	PY	.000575	.000575	0	0
20	M RAIL2	PY	.000575	.000575	0	0
21	M RAIL1	PY	.001	.001	0	0
22	M RAIL3	PY	.001	.001	0	0
23	MP ALPHA1	PY	.002	.002	0	0
24	MP ALPHA2	PY	.002	.002	0	0
25	MP ALPHA3	PY	.002	.002	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,%]
26	MP BETA1	PY	.002	.002	0	0
27	MP BETA2	PY	.002	.002	0	0
28	MP BETA3	PY	.002	.002	0	0
29	MP GAMMA1	PY	.002	.002	0	0
30	MP GAMMA2	PY	.002	.002	0	0
31	MP GAMMA3	PY	.002	.002	0	0
32	RUNG1	PY	.000364	.000364	0	0
33	RUNG2	PY	.000364	.000364	0	0
34	RUNG3	PY	.000364	.000364	0	0
35	RUNG4	PY	.000364	.000364	0	0
36	RUNG5	PY	.000364	.000364	0	0
37	RUNG6	PY	.000364	.000364	0	0
38	RUNG7	PY	.000364	.000364	0	0
39	SO1	PY	.000677	.000677	0	0
40	SO2	PY	.000677	.000677	0	0
41	SO3	PY	.000677	.000677	0	0
42	SUPPORT1	PY	.001	.001	0	0
43	SUPPORT2	PY	.001	.001	0	0
44	R ANGLE1	PY	.000983	.000983	0	0
45	R ANGLE2	PY	.000983	.000983	0	0
46	R ANGLE3	PY	.000983	.000983	0	0
47	CONNANGLE1	PX	-.002	-.002	0	0
48	CONNANGLE2	PX	-.002	-.002	0	0
49	CONNANGLE3	PX	-.002	-.002	0	0
50	CORNER1	PX	-.003	-.003	0	0
51	CORNER2	PX	-.003	-.003	0	0
52	CORNER3	PX	-.003	-.003	0	0
53	FACE3	PX	-.003	-.003	0	0
54	FACE4	PX	-.003	-.003	0	0
55	FACE1	PX	-.005	-.005	0	0
56	FACE2	PX	-.005	-.005	0	0
57	FACE5	PX	-.005	-.005	0	0
58	FACE6	PX	-.005	-.005	0	0
59	LADDER1	PX	-.001	-.001	0	0
60	LADDER2	PX	-.001	-.001	0	0
61	LADDERPLATE1	PX	-.002	-.002	0	0
62	LADDERPLATE2	PX	-.002	-.002	0	0
63	M PIPE1	PX	-.000996	-.000996	0	0
64	M PIPE2	PX	-.000996	-.000996	0	0
65	M PIPE3	PX	-.000996	-.000996	0	0
66	M RAIL2	PX	-.000996	-.000996	0	0
67	M RAIL1	PX	-.002	-.002	0	0
68	M RAIL3	PX	-.002	-.002	0	0
69	MP ALPHA1	PX	-.003	-.003	0	0
70	MP ALPHA2	PX	-.003	-.003	0	0
71	MP ALPHA3	PX	-.003	-.003	0	0
72	MP BETA1	PX	-.003	-.003	0	0
73	MP BETA2	PX	-.003	-.003	0	0
74	MP BETA3	PX	-.003	-.003	0	0
75	MP GAMMA1	PX	-.003	-.003	0	0
76	MP GAMMA2	PX	-.003	-.003	0	0
77	MP GAMMA3	PX	-.003	-.003	0	0
78	RUNG1	PX	-.000631	-.000631	0	0
79	RUNG2	PX	-.000631	-.000631	0	0
80	RUNG3	PX	-.000631	-.000631	0	0
81	RUNG4	PX	-.000631	-.000631	0	0
82	RUNG5	PX	-.000631	-.000631	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,%]
83	RUNG6	PX	-.000631	-.000631	0	0
84	RUNG7	PX	-.000631	-.000631	0	0
85	SO1	PX	-.001	-.001	0	0
86	SO2	PX	-.001	-.001	0	0
87	SO3	PX	-.001	-.001	0	0
88	SUPPORT1	PX	-.003	-.003	0	0
89	SUPPORT2	PX	-.003	-.003	0	0
90	R ANGLE1	PX	-.002	-.002	0	0
91	R ANGLE2	PX	-.002	-.002	0	0
92	R ANGLE3	PX	-.002	-.002	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	CONNANGLE1	PY	.002	.002	0	0
2	CONNANGLE2	PY	.002	.002	0	0
3	CONNANGLE3	PY	.002	.002	0	0
4	CORNER1	PY	.003	.003	0	0
5	CORNER2	PY	.003	.003	0	0
6	CORNER3	PY	.003	.003	0	0
7	FACE3	PY	.003	.003	0	0
8	FACE4	PY	.003	.003	0	0
9	FACE1	PY	.005	.005	0	0
10	FACE2	PY	.005	.005	0	0
11	FACE5	PY	.005	.005	0	0
12	FACE6	PY	.005	.005	0	0
13	LADDER1	PY	.001	.001	0	0
14	LADDER2	PY	.001	.001	0	0
15	LADDERPLATE1	PY	.002	.002	0	0
16	LADDERPLATE2	PY	.002	.002	0	0
17	M PIPE1	PY	.000996	.000996	0	0
18	M PIPE2	PY	.000996	.000996	0	0
19	M PIPE3	PY	.000996	.000996	0	0
20	M RAIL2	PY	.000996	.000996	0	0
21	M RAIL1	PY	.002	.002	0	0
22	M RAIL3	PY	.002	.002	0	0
23	MP ALPHA1	PY	.003	.003	0	0
24	MP ALPHA2	PY	.003	.003	0	0
25	MP ALPHA3	PY	.003	.003	0	0
26	MP BETA1	PY	.003	.003	0	0
27	MP BETA2	PY	.003	.003	0	0
28	MP BETA3	PY	.003	.003	0	0
29	MP GAMMA1	PY	.003	.003	0	0
30	MP GAMMA2	PY	.003	.003	0	0
31	MP GAMMA3	PY	.003	.003	0	0
32	RUNG1	PY	.000631	.000631	0	0
33	RUNG2	PY	.000631	.000631	0	0
34	RUNG3	PY	.000631	.000631	0	0
35	RUNG4	PY	.000631	.000631	0	0
36	RUNG5	PY	.000631	.000631	0	0
37	RUNG6	PY	.000631	.000631	0	0
38	RUNG7	PY	.000631	.000631	0	0
39	SO1	PY	.001	.001	0	0
40	SO2	PY	.001	.001	0	0
41	SO3	PY	.001	.001	0	0
42	SUPPORT1	PY	.003	.003	0	0
43	SUPPORT2	PY	.003	.003	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,%]
44	R ANGLE1	PY	.002	.002	0	0
45	R ANGLE2	PY	.002	.002	0	0
46	R ANGLE3	PY	.002	.002	0	0
47	CONNANGLE1	PX	-.001	-.001	0	0
48	CONNANGLE2	PX	-.001	-.001	0	0
49	CONNANGLE3	PX	-.001	-.001	0	0
50	CORNER1	PX	-.001	-.001	0	0
51	CORNER2	PX	-.001	-.001	0	0
52	CORNER3	PX	-.001	-.001	0	0
53	FACE3	PX	-.001	-.001	0	0
54	FACE4	PX	-.001	-.001	0	0
55	FACE1	PX	-.003	-.003	0	0
56	FACE2	PX	-.003	-.003	0	0
57	FACE5	PX	-.003	-.003	0	0
58	FACE6	PX	-.003	-.003	0	0
59	LADDER1	PX	-.000833	-.000833	0	0
60	LADDER2	PX	-.000833	-.000833	0	0
61	LADDERPLATE1	PX	-.001	-.001	0	0
62	LADDERPLATE2	PX	-.001	-.001	0	0
63	M PIPE1	PX	-.000575	-.000575	0	0
64	M PIPE2	PX	-.000575	-.000575	0	0
65	M PIPE3	PX	-.000575	-.000575	0	0
66	M RAIL2	PX	-.000575	-.000575	0	0
67	M RAIL1	PX	-.001	-.001	0	0
68	M RAIL3	PX	-.001	-.001	0	0
69	MP ALPHA1	PX	-.002	-.002	0	0
70	MP ALPHA2	PX	-.002	-.002	0	0
71	MP ALPHA3	PX	-.002	-.002	0	0
72	MP BETA1	PX	-.002	-.002	0	0
73	MP BETA2	PX	-.002	-.002	0	0
74	MP BETA3	PX	-.002	-.002	0	0
75	MP GAMMA1	PX	-.002	-.002	0	0
76	MP GAMMA2	PX	-.002	-.002	0	0
77	MP GAMMA3	PX	-.002	-.002	0	0
78	RUNG1	PX	-.000364	-.000364	0	0
79	RUNG2	PX	-.000364	-.000364	0	0
80	RUNG3	PX	-.000364	-.000364	0	0
81	RUNG4	PX	-.000364	-.000364	0	0
82	RUNG5	PX	-.000364	-.000364	0	0
83	RUNG6	PX	-.000364	-.000364	0	0
84	RUNG7	PX	-.000364	-.000364	0	0
85	SO1	PX	-.000677	-.000677	0	0
86	SO2	PX	-.000677	-.000677	0	0
87	SO3	PX	-.000677	-.000677	0	0
88	SUPPORT1	PX	-.001	-.001	0	0
89	SUPPORT2	PX	-.001	-.001	0	0
90	R ANGLE1	PX	-.000983	-.000983	0	0
91	R ANGLE2	PX	-.000983	-.000983	0	0
92	R ANGLE3	PX	-.000983	-.000983	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	CONNANGLE1	PY	.002	.002	0	0
2	CONNANGLE2	PY	.002	.002	0	0
3	CONNANGLE3	PY	.002	.002	0	0
4	CORNER1	PY	.003	.003	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,%]
5	CORNER2	PY	.003	.003	0	0
6	CORNER3	PY	.003	.003	0	0
7	FACE3	PY	.003	.003	0	0
8	FACE4	PY	.003	.003	0	0
9	FACE1	PY	.006	.006	0	0
10	FACE2	PY	.006	.006	0	0
11	FACE5	PY	.006	.006	0	0
12	FACE6	PY	.006	.006	0	0
13	LADDER1	PY	.002	.002	0	0
14	LADDER2	PY	.002	.002	0	0
15	LADDERPLATE1	PY	.003	.003	0	0
16	LADDERPLATE2	PY	.003	.003	0	0
17	M PIPE1	PY	.001	.001	0	0
18	M PIPE2	PY	.001	.001	0	0
19	M PIPE3	PY	.001	.001	0	0
20	M RAIL2	PY	.001	.001	0	0
21	M RAIL1	PY	.002	.002	0	0
22	M RAIL3	PY	.002	.002	0	0
23	MP ALPHA1	PY	.003	.003	0	0
24	MP ALPHA2	PY	.003	.003	0	0
25	MP ALPHA3	PY	.003	.003	0	0
26	MP BETA1	PY	.003	.003	0	0
27	MP BETA2	PY	.003	.003	0	0
28	MP BETA3	PY	.003	.003	0	0
29	MP GAMMA1	PY	.003	.003	0	0
30	MP GAMMA2	PY	.003	.003	0	0
31	MP GAMMA3	PY	.003	.003	0	0
32	RUNG1	PY	.000729	.000729	0	0
33	RUNG2	PY	.000729	.000729	0	0
34	RUNG3	PY	.000729	.000729	0	0
35	RUNG4	PY	.000729	.000729	0	0
36	RUNG5	PY	.000729	.000729	0	0
37	RUNG6	PY	.000729	.000729	0	0
38	RUNG7	PY	.000729	.000729	0	0
39	SO1	PY	.001	.001	0	0
40	SO2	PY	.001	.001	0	0
41	SO3	PY	.001	.001	0	0
42	SUPPORT1	PY	.003	.003	0	0
43	SUPPORT2	PY	.003	.003	0	0
44	R ANGLE1	PY	.002	.002	0	0
45	R ANGLE2	PY	.002	.002	0	0
46	R ANGLE3	PY	.002	.002	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	CONNANGLE1	PY	.002	.002	0	0
2	CONNANGLE2	PY	.002	.002	0	0
3	CONNANGLE3	PY	.002	.002	0	0
4	CORNER1	PY	.003	.003	0	0
5	CORNER2	PY	.003	.003	0	0
6	CORNER3	PY	.003	.003	0	0
7	FACE5	PY	.003	.003	0	0
8	FACE6	PY	.003	.003	0	0
9	FACE1	PY	.005	.005	0	0
10	FACE2	PY	.005	.005	0	0
11	FACE3	PY	.005	.005	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,%]
12	FACE4	PY	.005	.005	0	0
13	LADDER1	PY	.001	.001	0	0
14	LADDER2	PY	.001	.001	0	0
15	LADDERPLATE1	PY	.002	.002	0	0
16	LADDERPLATE2	PY	.002	.002	0	0
17	M PIPE1	PY	.000996	.000996	0	0
18	M PIPE2	PY	.000996	.000996	0	0
19	M PIPE3	PY	.000996	.000996	0	0
20	M RAIL3	PY	.000996	.000996	0	0
21	M RAIL1	PY	.002	.002	0	0
22	M RAIL2	PY	.002	.002	0	0
23	MP ALPHA1	PY	.003	.003	0	0
24	MP ALPHA2	PY	.003	.003	0	0
25	MP ALPHA3	PY	.003	.003	0	0
26	MP BETA1	PY	.003	.003	0	0
27	MP BETA2	PY	.003	.003	0	0
28	MP BETA3	PY	.003	.003	0	0
29	MP GAMMA1	PY	.003	.003	0	0
30	MP GAMMA2	PY	.003	.003	0	0
31	MP GAMMA3	PY	.003	.003	0	0
32	RUNG1	PY	.000631	.000631	0	0
33	RUNG2	PY	.000631	.000631	0	0
34	RUNG3	PY	.000631	.000631	0	0
35	RUNG4	PY	.000631	.000631	0	0
36	RUNG5	PY	.000631	.000631	0	0
37	RUNG6	PY	.000631	.000631	0	0
38	RUNG7	PY	.000631	.000631	0	0
39	SO1	PY	.001	.001	0	0
40	SO2	PY	.001	.001	0	0
41	SO3	PY	.001	.001	0	0
42	SUPPORT1	PY	.003	.003	0	0
43	SUPPORT2	PY	.003	.003	0	0
44	R ANGLE1	PY	.002	.002	0	0
45	R ANGLE2	PY	.002	.002	0	0
46	R ANGLE3	PY	.002	.002	0	0
47	CONNANGLE1	PX	.001	.001	0	0
48	CONNANGLE2	PX	.001	.001	0	0
49	CONNANGLE3	PX	.001	.001	0	0
50	CORNER1	PX	.001	.001	0	0
51	CORNER2	PX	.001	.001	0	0
52	CORNER3	PX	.001	.001	0	0
53	FACE5	PX	.001	.001	0	0
54	FACE6	PX	.001	.001	0	0
55	FACE1	PX	.003	.003	0	0
56	FACE2	PX	.003	.003	0	0
57	FACE3	PX	.003	.003	0	0
58	FACE4	PX	.003	.003	0	0
59	LADDER1	PX	.000833	.000833	0	0
60	LADDER2	PX	.000833	.000833	0	0
61	LADDERPLATE1	PX	.001	.001	0	0
62	LADDERPLATE2	PX	.001	.001	0	0
63	M PIPE1	PX	.000575	.000575	0	0
64	M PIPE2	PX	.000575	.000575	0	0
65	M PIPE3	PX	.000575	.000575	0	0
66	M RAIL3	PX	.000575	.000575	0	0
67	M RAIL1	PX	.001	.001	0	0
68	M RAIL2	PX	.001	.001	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,%]
69	MP ALPHA1	PX	.002	.002	0	0
70	MP ALPHA2	PX	.002	.002	0	0
71	MP ALPHA3	PX	.002	.002	0	0
72	MP BETA1	PX	.002	.002	0	0
73	MP BETA2	PX	.002	.002	0	0
74	MP BETA3	PX	.002	.002	0	0
75	MP GAMMA1	PX	.002	.002	0	0
76	MP GAMMA2	PX	.002	.002	0	0
77	MP GAMMA3	PX	.002	.002	0	0
78	RUNG1	PX	.000364	.000364	0	0
79	RUNG2	PX	.000364	.000364	0	0
80	RUNG3	PX	.000364	.000364	0	0
81	RUNG4	PX	.000364	.000364	0	0
82	RUNG5	PX	.000364	.000364	0	0
83	RUNG6	PX	.000364	.000364	0	0
84	RUNG7	PX	.000364	.000364	0	0
85	SO1	PX	.000677	.000677	0	0
86	SO2	PX	.000677	.000677	0	0
87	SO3	PX	.000677	.000677	0	0
88	SUPPORT1	PX	.001	.001	0	0
89	SUPPORT2	PX	.001	.001	0	0
90	R ANGLE1	PX	.000983	.000983	0	0
91	R ANGLE2	PX	.000983	.000983	0	0
92	R ANGLE3	PX	.000983	.000983	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	CONNANGLE1	PY	.001	.001	0	0
2	CONNANGLE2	PY	.001	.001	0	0
3	CONNANGLE3	PY	.001	.001	0	0
4	CORNER1	PY	.001	.001	0	0
5	CORNER2	PY	.001	.001	0	0
6	CORNER3	PY	.001	.001	0	0
7	FACE5	PY	.001	.001	0	0
8	FACE6	PY	.001	.001	0	0
9	FACE1	PY	.003	.003	0	0
10	FACE2	PY	.003	.003	0	0
11	FACE3	PY	.003	.003	0	0
12	FACE4	PY	.003	.003	0	0
13	LADDER1	PY	.000833	.000833	0	0
14	LADDER2	PY	.000833	.000833	0	0
15	LADDERPLATE1	PY	.001	.001	0	0
16	LADDERPLATE2	PY	.001	.001	0	0
17	M PIPE1	PY	.000575	.000575	0	0
18	M PIPE2	PY	.000575	.000575	0	0
19	M PIPE3	PY	.000575	.000575	0	0
20	M RAIL3	PY	.000575	.000575	0	0
21	M RAIL1	PY	.001	.001	0	0
22	M RAIL2	PY	.001	.001	0	0
23	MP ALPHA1	PY	.002	.002	0	0
24	MP ALPHA2	PY	.002	.002	0	0
25	MP ALPHA3	PY	.002	.002	0	0
26	MP BETA1	PY	.002	.002	0	0
27	MP BETA2	PY	.002	.002	0	0
28	MP BETA3	PY	.002	.002	0	0
29	MP GAMMA1	PY	.002	.002	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,%]
30	MP GAMMA2	PY	.002	.002	0	0
31	MP GAMMA3	PY	.002	.002	0	0
32	RUNG1	PY	.000364	.000364	0	0
33	RUNG2	PY	.000364	.000364	0	0
34	RUNG3	PY	.000364	.000364	0	0
35	RUNG4	PY	.000364	.000364	0	0
36	RUNG5	PY	.000364	.000364	0	0
37	RUNG6	PY	.000364	.000364	0	0
38	RUNG7	PY	.000364	.000364	0	0
39	SO1	PY	.000677	.000677	0	0
40	SO2	PY	.000677	.000677	0	0
41	SO3	PY	.000677	.000677	0	0
42	SUPPORT1	PY	.001	.001	0	0
43	SUPPORT2	PY	.001	.001	0	0
44	R ANGLE1	PY	.000983	.000983	0	0
45	R ANGLE2	PY	.000983	.000983	0	0
46	R ANGLE3	PY	.000983	.000983	0	0
47	CONNANGLE1	PX	.002	.002	0	0
48	CONNANGLE2	PX	.002	.002	0	0
49	CONNANGLE3	PX	.002	.002	0	0
50	CORNER1	PX	.003	.003	0	0
51	CORNER2	PX	.003	.003	0	0
52	CORNER3	PX	.003	.003	0	0
53	FACE5	PX	.003	.003	0	0
54	FACE6	PX	.003	.003	0	0
55	FACE1	PX	.005	.005	0	0
56	FACE2	PX	.005	.005	0	0
57	FACE3	PX	.005	.005	0	0
58	FACE4	PX	.005	.005	0	0
59	LADDER1	PX	.001	.001	0	0
60	LADDER2	PX	.001	.001	0	0
61	LADDERPLATE1	PX	.002	.002	0	0
62	LADDERPLATE2	PX	.002	.002	0	0
63	M PIPE1	PX	.000996	.000996	0	0
64	M PIPE2	PX	.000996	.000996	0	0
65	M PIPE3	PX	.000996	.000996	0	0
66	M RAIL3	PX	.000996	.000996	0	0
67	M RAIL1	PX	.002	.002	0	0
68	M RAIL2	PX	.002	.002	0	0
69	MP ALPHA1	PX	.003	.003	0	0
70	MP ALPHA2	PX	.003	.003	0	0
71	MP ALPHA3	PX	.003	.003	0	0
72	MP BETA1	PX	.003	.003	0	0
73	MP BETA2	PX	.003	.003	0	0
74	MP BETA3	PX	.003	.003	0	0
75	MP GAMMA1	PX	.003	.003	0	0
76	MP GAMMA2	PX	.003	.003	0	0
77	MP GAMMA3	PX	.003	.003	0	0
78	RUNG1	PX	.000631	.000631	0	0
79	RUNG2	PX	.000631	.000631	0	0
80	RUNG3	PX	.000631	.000631	0	0
81	RUNG4	PX	.000631	.000631	0	0
82	RUNG5	PX	.000631	.000631	0	0
83	RUNG6	PX	.000631	.000631	0	0
84	RUNG7	PX	.000631	.000631	0	0
85	SO1	PX	.001	.001	0	0
86	SO2	PX	.001	.001	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,%]
87	SO3	PX	.001	.001	0	0
88	SUPPORT1	PX	.003	.003	0	0
89	SUPPORT2	PX	.003	.003	0	0
90	R ANGLE1	PX	.002	.002	0	0
91	R ANGLE2	PX	.002	.002	0	0
92	R ANGLE3	PX	.002	.002	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	CONNANGLE1	PX	.002	.002	0	0
2	CONNANGLE2	PX	.002	.002	0	0
3	CONNANGLE3	PX	.002	.002	0	0
4	CORNER1	PX	.003	.003	0	0
5	CORNER2	PX	.003	.003	0	0
6	CORNER3	PX	.003	.003	0	0
7	FACE5	PX	.003	.003	0	0
8	FACE6	PX	.003	.003	0	0
9	FACE1	PX	.006	.006	0	0
10	FACE2	PX	.006	.006	0	0
11	FACE3	PX	.006	.006	0	0
12	FACE4	PX	.006	.006	0	0
13	LADDER1	PX	.002	.002	0	0
14	LADDER2	PX	.002	.002	0	0
15	LADDERPLATE1	PX	.003	.003	0	0
16	LADDERPLATE2	PX	.003	.003	0	0
17	M PIPE1	PX	.001	.001	0	0
18	M PIPE2	PX	.001	.001	0	0
19	M PIPE3	PX	.001	.001	0	0
20	M RAIL3	PX	.001	.001	0	0
21	M RAIL1	PX	.002	.002	0	0
22	M RAIL2	PX	.002	.002	0	0
23	MP ALPHA1	PX	.003	.003	0	0
24	MP ALPHA2	PX	.003	.003	0	0
25	MP ALPHA3	PX	.003	.003	0	0
26	MP BETA1	PX	.003	.003	0	0
27	MP BETA2	PX	.003	.003	0	0
28	MP BETA3	PX	.003	.003	0	0
29	MP GAMMA1	PX	.003	.003	0	0
30	MP GAMMA2	PX	.003	.003	0	0
31	MP GAMMA3	PX	.003	.003	0	0
32	RUNG1	PX	.000729	.000729	0	0
33	RUNG2	PX	.000729	.000729	0	0
34	RUNG3	PX	.000729	.000729	0	0
35	RUNG4	PX	.000729	.000729	0	0
36	RUNG5	PX	.000729	.000729	0	0
37	RUNG6	PX	.000729	.000729	0	0
38	RUNG7	PX	.000729	.000729	0	0
39	SO1	PX	.001	.001	0	0
40	SO2	PX	.001	.001	0	0
41	SO3	PX	.001	.001	0	0
42	SUPPORT1	PX	.003	.003	0	0
43	SUPPORT2	PX	.003	.003	0	0
44	R ANGLE1	PX	.002	.002	0	0
45	R ANGLE2	PX	.002	.002	0	0
46	R ANGLE3	PX	.002	.002	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	CONNANGLE1	PY	-.001	-.001	0	0
2	CONNANGLE2	PY	-.001	-.001	0	0
3	CONNANGLE3	PY	-.001	-.001	0	0
4	CORNER1	PY	-.001	-.001	0	0
5	CORNER2	PY	-.001	-.001	0	0
6	CORNER3	PY	-.001	-.001	0	0
7	FACE5	PY	-.001	-.001	0	0
8	FACE6	PY	-.001	-.001	0	0
9	FACE1	PY	-.003	-.003	0	0
10	FACE2	PY	-.003	-.003	0	0
11	FACE3	PY	-.003	-.003	0	0
12	FACE4	PY	-.003	-.003	0	0
13	LADDER1	PY	-.000833	-.000833	0	0
14	LADDER2	PY	-.000833	-.000833	0	0
15	LADDERPLATE1	PY	-.001	-.001	0	0
16	LADDERPLATE2	PY	-.001	-.001	0	0
17	M PIPE1	PY	-.000575	-.000575	0	0
18	M PIPE2	PY	-.000575	-.000575	0	0
19	M PIPE3	PY	-.000575	-.000575	0	0
20	M RAIL3	PY	-.000575	-.000575	0	0
21	M RAIL1	PY	-.001	-.001	0	0
22	M RAIL2	PY	-.001	-.001	0	0
23	MP ALPHA1	PY	-.002	-.002	0	0
24	MP ALPHA2	PY	-.002	-.002	0	0
25	MP ALPHA3	PY	-.002	-.002	0	0
26	MP BETA1	PY	-.002	-.002	0	0
27	MP BETA2	PY	-.002	-.002	0	0
28	MP BETA3	PY	-.002	-.002	0	0
29	MP GAMMA1	PY	-.002	-.002	0	0
30	MP GAMMA2	PY	-.002	-.002	0	0
31	MP GAMMA3	PY	-.002	-.002	0	0
32	RUNG1	PY	-.000364	-.000364	0	0
33	RUNG2	PY	-.000364	-.000364	0	0
34	RUNG3	PY	-.000364	-.000364	0	0
35	RUNG4	PY	-.000364	-.000364	0	0
36	RUNG5	PY	-.000364	-.000364	0	0
37	RUNG6	PY	-.000364	-.000364	0	0
38	RUNG7	PY	-.000364	-.000364	0	0
39	SO1	PY	-.000677	-.000677	0	0
40	SO2	PY	-.000677	-.000677	0	0
41	SO3	PY	-.000677	-.000677	0	0
42	SUPPORT1	PY	-.001	-.001	0	0
43	SUPPORT2	PY	-.001	-.001	0	0
44	R ANGLE1	PY	-.000983	-.000983	0	0
45	R ANGLE2	PY	-.000983	-.000983	0	0
46	R ANGLE3	PY	-.000983	-.000983	0	0
47	CONNANGLE1	PX	.002	.002	0	0
48	CONNANGLE2	PX	.002	.002	0	0
49	CONNANGLE3	PX	.002	.002	0	0
50	CORNER1	PX	.003	.003	0	0
51	CORNER2	PX	.003	.003	0	0
52	CORNER3	PX	.003	.003	0	0
53	FACE5	PX	.003	.003	0	0
54	FACE6	PX	.003	.003	0	0
55	FACE1	PX	.005	.005	0	0
56	FACE2	PX	.005	.005	0	0
57	FACE3	PX	.005	.005	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,%]
58	FACE4	PX	.005	.005	0	0
59	LADDER1	PX	.001	.001	0	0
60	LADDER2	PX	.001	.001	0	0
61	LADDERPLATE1	PX	.002	.002	0	0
62	LADDERPLATE2	PX	.002	.002	0	0
63	M PIPE1	PX	.000996	.000996	0	0
64	M PIPE2	PX	.000996	.000996	0	0
65	M PIPE3	PX	.000996	.000996	0	0
66	M RAIL3	PX	.000996	.000996	0	0
67	M RAIL1	PX	.002	.002	0	0
68	M RAIL2	PX	.002	.002	0	0
69	MP ALPHA1	PX	.003	.003	0	0
70	MP ALPHA2	PX	.003	.003	0	0
71	MP ALPHA3	PX	.003	.003	0	0
72	MP BETA1	PX	.003	.003	0	0
73	MP BETA2	PX	.003	.003	0	0
74	MP BETA3	PX	.003	.003	0	0
75	MP GAMMA1	PX	.003	.003	0	0
76	MP GAMMA2	PX	.003	.003	0	0
77	MP GAMMA3	PX	.003	.003	0	0
78	RUNG1	PX	.000631	.000631	0	0
79	RUNG2	PX	.000631	.000631	0	0
80	RUNG3	PX	.000631	.000631	0	0
81	RUNG4	PX	.000631	.000631	0	0
82	RUNG5	PX	.000631	.000631	0	0
83	RUNG6	PX	.000631	.000631	0	0
84	RUNG7	PX	.000631	.000631	0	0
85	SO1	PX	.001	.001	0	0
86	SO2	PX	.001	.001	0	0
87	SO3	PX	.001	.001	0	0
88	SUPPORT1	PX	.003	.003	0	0
89	SUPPORT2	PX	.003	.003	0	0
90	R ANGLE1	PX	.002	.002	0	0
91	R ANGLE2	PX	.002	.002	0	0
92	R ANGLE3	PX	.002	.002	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	CONNANGLE1	PY	-.002	-.002	0	0
2	CONNANGLE2	PY	-.002	-.002	0	0
3	CONNANGLE3	PY	-.002	-.002	0	0
4	CORNER1	PY	-.003	-.003	0	0
5	CORNER2	PY	-.003	-.003	0	0
6	CORNER3	PY	-.003	-.003	0	0
7	FACE1	PY	-.003	-.003	0	0
8	FACE2	PY	-.003	-.003	0	0
9	FACE3	PY	-.005	-.005	0	0
10	FACE4	PY	-.005	-.005	0	0
11	FACE5	PY	-.005	-.005	0	0
12	FACE6	PY	-.005	-.005	0	0
13	LADDER1	PY	-.001	-.001	0	0
14	LADDER2	PY	-.001	-.001	0	0
15	LADDERPLATE1	PY	-.002	-.002	0	0
16	LADDERPLATE2	PY	-.002	-.002	0	0
17	M PIPE1	PY	-.000996	-.000996	0	0
18	M PIPE2	PY	-.000996	-.000996	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,%]
19	M PIPE3	PY	-.000996	-.000996	0	0
20	M RAIL1	PY	-.000996	-.000996	0	0
21	M RAIL2	PY	-.002	-.002	0	0
22	M RAIL3	PY	-.002	-.002	0	0
23	MP ALPHA1	PY	-.003	-.003	0	0
24	MP ALPHA2	PY	-.003	-.003	0	0
25	MP ALPHA3	PY	-.003	-.003	0	0
26	MP BETA1	PY	-.003	-.003	0	0
27	MP BETA2	PY	-.003	-.003	0	0
28	MP BETA3	PY	-.003	-.003	0	0
29	MP GAMMA1	PY	-.003	-.003	0	0
30	MP GAMMA2	PY	-.003	-.003	0	0
31	MP GAMMA3	PY	-.003	-.003	0	0
32	RUNG1	PY	-.000631	-.000631	0	0
33	RUNG2	PY	-.000631	-.000631	0	0
34	RUNG3	PY	-.000631	-.000631	0	0
35	RUNG4	PY	-.000631	-.000631	0	0
36	RUNG5	PY	-.000631	-.000631	0	0
37	RUNG6	PY	-.000631	-.000631	0	0
38	RUNG7	PY	-.000631	-.000631	0	0
39	SO1	PY	-.001	-.001	0	0
40	SO2	PY	-.001	-.001	0	0
41	SO3	PY	-.001	-.001	0	0
42	SUPPORT1	PY	-.003	-.003	0	0
43	SUPPORT2	PY	-.003	-.003	0	0
44	R ANGLE1	PY	-.002	-.002	0	0
45	R ANGLE2	PY	-.002	-.002	0	0
46	R ANGLE3	PY	-.002	-.002	0	0
47	CONNANGLE1	PX	.001	.001	0	0
48	CONNANGLE2	PX	.001	.001	0	0
49	CONNANGLE3	PX	.001	.001	0	0
50	CORNER1	PX	.001	.001	0	0
51	CORNER2	PX	.001	.001	0	0
52	CORNER3	PX	.001	.001	0	0
53	FACE1	PX	.001	.001	0	0
54	FACE2	PX	.001	.001	0	0
55	FACE3	PX	.003	.003	0	0
56	FACE4	PX	.003	.003	0	0
57	FACE5	PX	.003	.003	0	0
58	FACE6	PX	.003	.003	0	0
59	LADDER1	PX	.000833	.000833	0	0
60	LADDER2	PX	.000833	.000833	0	0
61	LADDERPLATE1	PX	.001	.001	0	0
62	LADDERPLATE2	PX	.001	.001	0	0
63	M PIPE1	PX	.000575	.000575	0	0
64	M PIPE2	PX	.000575	.000575	0	0
65	M PIPE3	PX	.000575	.000575	0	0
66	M RAIL1	PX	.000575	.000575	0	0
67	M RAIL2	PX	.001	.001	0	0
68	M RAIL3	PX	.001	.001	0	0
69	MP ALPHA1	PX	.002	.002	0	0
70	MP ALPHA2	PX	.002	.002	0	0
71	MP ALPHA3	PX	.002	.002	0	0
72	MP BETA1	PX	.002	.002	0	0
73	MP BETA2	PX	.002	.002	0	0
74	MP BETA3	PX	.002	.002	0	0
75	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,%]
76	MP GAMMA2	PX	.002	.002	0	0
77	MP GAMMA3	PX	.002	.002	0	0
78	RUNG1	PX	.000364	.000364	0	0
79	RUNG2	PX	.000364	.000364	0	0
80	RUNG3	PX	.000364	.000364	0	0
81	RUNG4	PX	.000364	.000364	0	0
82	RUNG5	PX	.000364	.000364	0	0
83	RUNG6	PX	.000364	.000364	0	0
84	RUNG7	PX	.000364	.000364	0	0
85	SO1	PX	.000677	.000677	0	0
86	SO2	PX	.000677	.000677	0	0
87	SO3	PX	.000677	.000677	0	0
88	SUPPORT1	PX	.001	.001	0	0
89	SUPPORT2	PX	.001	.001	0	0
90	R ANGLE1	PX	.000983	.000983	0	0
91	R ANGLE2	PX	.000983	.000983	0	0
92	R ANGLE3	PX	.000983	.000983	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	20	Z	-.309	-.309	0	.03
2	CORNER1	Z	-.018	-.014	0	2.125
3	CORNER1	Z	-.014	-.01	2.125	4.25
4	FACE1	Z	-.0004142	-.009	0	.99
5	FACE1	Z	-.009	-.019	.99	1.981
6	FACE1	Z	-.019	-.012	1.981	2.971
7	FACE1	Z	-.012	-.0004142	2.971	3.962
8	FACE4	Z	-.0006534	-.011	0	.905
9	FACE4	Z	-.011	-.017	.905	1.811
10	FACE4	Z	-.017	-.013	1.811	2.716
11	FACE4	Z	-.013	-.009	2.716	3.621
12	CORNER1	Z	-.004	-.004	3.201	4.201
13	CORNER3	Z	-.004	-.004	.066	1.066
14	FACE3	Z	-.01	-.011	3.962	4.528
15	FACE3	Z	-.011	-.016	4.528	5.094
16	FACE3	Z	-.016	-.026	5.094	5.659
17	FACE4	Z	-.006	-.011	3.621	5.174
18	CORNER3	Z	-.002	-.011	0	1.417
19	CORNER3	Z	-.011	-.011	1.417	2.833
20	CORNER3	Z	-.011	-.002	2.833	4.25
21	FACE3	Z	-.001	-.007	0	1.321
22	FACE3	Z	-.007	-.007	1.321	2.641
23	FACE3	Z	-.007	-.002	2.641	3.962
24	FACE6	Z	-.002	-.008	0	1.207
25	FACE6	Z	-.008	-.008	1.207	2.414
26	FACE6	Z	-.008	-.001	2.414	3.621
27	CORNER2	Z	-.002	-.002	.066	1.066
28	CORNER3	Z	-.002	-.002	3.201	4.201
29	FACE5	Z	-.005	-.005	3.962	4.528
30	FACE5	Z	-.005	-.008	4.528	5.094
31	FACE5	Z	-.008	-.013	5.094	5.659
32	FACE6	Z	-.003	-.005	3.621	5.174
33	9	Z	.003	-.012	0	.1
34	9	Z	-.012	-.04	.1	.2
35	29	Z	.003	-.012	0	.1
36	29	Z	-.012	-.041	.1	.2

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,%]
37	CORNER2	Z	-.004	-.003	0	.85
38	CORNER2	Z	-.003	-.004	.85	1.7
39	CORNER2	Z	-.004	-.006	1.7	2.55
40	CORNER2	Z	-.006	-.004	2.55	3.4
41	CORNER2	Z	-.004	-.0001353	3.4	4.25
42	FACE2	Z	-.0004512	-.004	0	.931
43	FACE2	Z	-.004	-.004	.931	1.862
44	FACE2	Z	-.004	-.005	1.862	2.794
45	FACE2	Z	-.005	-.005	2.794	3.725
46	FACE2	Z	-.005	-.0003843	3.725	4.656
47	FACE5	Z	-.0002377	-.003	0	.906
48	FACE5	Z	-.003	-.004	.906	1.811
49	FACE5	Z	-.004	-.004	1.811	2.717
50	FACE5	Z	-.004	-.003	2.717	3.622
51	FACE5	Z	-.003	-.0002377	3.622	4.528
52	SUPPORT1	Z	-.0005189	-.009	0	.446
53	SUPPORT1	Z	-.009	-.013	.446	.892
54	SUPPORT1	Z	-.013	-.009	.892	1.337
55	SUPPORT1	Z	-.009	-.005	1.337	1.783
56	SUPPORT1	Z	-.005	-.001	1.783	2.229
57	SUPPORT2	Z	-.002	-.004	0	.35
58	SUPPORT2	Z	-.004	-.006	.35	.7
59	SUPPORT2	Z	-.006	-.007	.7	1.05
60	SUPPORT2	Z	-.007	-.004	1.05	1.4
61	SUPPORT2	Z	-.004	-.002	1.4	1.75
62	CORNER1	Z	-.002	-.002	.066	1.066
63	CORNER2	Z	-.002	-.002	3.202	4.202
64	FACE1	Z	-.005	-.005	3.962	4.528
65	FACE1	Z	-.005	-.008	4.528	5.094
66	FACE1	Z	-.008	-.013	5.094	5.659
67	FACE2	Z	-.003	-.005	3.621	5.174

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	20	Z	-.463	-.463	0	.03
2	CORNER1	Z	-.028	-.021	0	2.125
3	CORNER1	Z	-.021	-.015	2.125	4.25
4	FACE1	Z	-.0006214	-.014	0	.99
5	FACE1	Z	-.014	-.028	.99	1.981
6	FACE1	Z	-.028	-.017	1.981	2.971
7	FACE1	Z	-.017	-.0006214	2.971	3.962
8	FACE4	Z	-.0009801	-.017	0	.905
9	FACE4	Z	-.017	-.026	.905	1.811
10	FACE4	Z	-.026	-.02	1.811	2.716
11	FACE4	Z	-.02	-.014	2.716	3.621
12	CORNER1	Z	-.006	-.006	3.201	4.201
13	CORNER3	Z	-.006	-.006	.066	1.066
14	FACE3	Z	-.015	-.016	3.962	4.528
15	FACE3	Z	-.016	-.024	4.528	5.094
16	FACE3	Z	-.024	-.04	5.094	5.659
17	FACE4	Z	-.01	-.016	3.621	5.174
18	CORNER3	Z	-.002	-.017	0	1.417
19	CORNER3	Z	-.017	-.017	1.417	2.833
20	CORNER3	Z	-.017	-.002	2.833	4.25
21	FACE3	Z	-.002	-.01	0	1.321
22	FACE3	Z	-.01	-.011	1.321	2.641

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,%]
23	FACE3	Z	-.011	-.004	2.641	3.962
24	FACE6	Z	-.003	-.012	0	1.207
25	FACE6	Z	-.012	-.012	1.207	2.414
26	FACE6	Z	-.012	-.002	2.414	3.621
27	CORNER2	Z	-.003	-.003	.066	1.066
28	CORNER3	Z	-.003	-.003	3.201	4.201
29	FACE5	Z	-.008	-.008	3.962	4.528
30	FACE5	Z	-.008	-.012	4.528	5.094
31	FACE5	Z	-.012	-.02	5.094	5.659
32	FACE6	Z	-.005	-.008	3.621	5.174
33	9	Z	.005	-.018	0	.1
34	9	Z	-.018	-.061	.1	.2
35	29	Z	.005	-.018	0	.1
36	29	Z	-.018	-.062	.1	.2
37	CORNER2	Z	-.005	-.004	0	.85
38	CORNER2	Z	-.004	-.006	.85	1.7
39	CORNER2	Z	-.006	-.009	1.7	2.55
40	CORNER2	Z	-.009	-.006	2.55	3.4
41	CORNER2	Z	-.006	-.000203	3.4	4.25
42	FACE2	Z	-.0006768	-.005	0	.931
43	FACE2	Z	-.005	-.007	.931	1.862
44	FACE2	Z	-.007	-.008	1.862	2.794
45	FACE2	Z	-.008	-.007	2.794	3.725
46	FACE2	Z	-.007	-.0005764	3.725	4.656
47	FACE5	Z	-.0003565	-.005	0	.906
48	FACE5	Z	-.005	-.005	.906	1.811
49	FACE5	Z	-.005	-.005	1.811	2.717
50	FACE5	Z	-.005	-.005	2.717	3.622
51	FACE5	Z	-.005	-.0003565	3.622	4.528
52	SUPPORT1	Z	-.0007784	-.013	0	.446
53	SUPPORT1	Z	-.013	-.019	.446	.892
54	SUPPORT1	Z	-.019	-.013	.892	1.337
55	SUPPORT1	Z	-.013	-.007	1.337	1.783
56	SUPPORT1	Z	-.007	-.002	1.783	2.229
57	SUPPORT2	Z	-.004	-.006	0	.35
58	SUPPORT2	Z	-.006	-.01	.35	.7
59	SUPPORT2	Z	-.01	-.01	.7	1.05
60	SUPPORT2	Z	-.01	-.006	1.05	1.4
61	SUPPORT2	Z	-.006	-.004	1.4	1.75
62	CORNER1	Z	-.003	-.003	.066	1.066
63	CORNER2	Z	-.003	-.003	3.202	4.202
64	FACE1	Z	-.008	-.008	3.962	4.528
65	FACE1	Z	-.008	-.012	4.528	5.094
66	FACE1	Z	-.012	-.02	5.094	5.659
67	FACE2	Z	-.005	-.008	3.621	5.174

Member Area Loads (BLC 3 : Dead Load)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N157	N89	N132	N133	Z	Two Way	-.01
2	N152	N150	N134B	N133	Z	Two Way	-.01
3	N134B	N156	N118A	N135A	Z	Two Way	-.01
4	N148	N135A	N133B	N146	Z	Two Way	-.01
5	N133B	N117A	N90	N134A	Z	Two Way	-.01
6	N156A	N154	N132	N134A	Z	Two Way	-.01
7	N157	N89	N132	N133	Z	Two Way	-.01

Member Area Loads (BLC 3 : Dead Load) (Continued)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
8	N152	N150	N134B	N133	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	N157	N89	N132	N133	Z	Two Way	-.015
2	N152	N150	N134B	N133	Z	Two Way	-.015
3	N134B	N156	N118A	N135A	Z	Two Way	-.015
4	N148	N135A	N133B	N146	Z	Two Way	-.015
5	N133B	N117A	N90	N134A	Z	Two Way	-.015
6	N156A	N154	N132	N134A	Z	Two Way	-.015
7	N157	N89	N132	N133	Z	Two Way	-.015
8	N152	N150	N134B	N133	Z	Two Way	-.015

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribut...	Area(M...	Surface...
1	Live Load	DL					1			
2	Wind Load (0)	DL					24	46		
3	Dead Load	DL			-1.1		24		8	
4	Wind Load (30)	DL					48	92		
5	Wind Load (60)	DL					48	92		
6	Wind Load (90)	DL					24	46		
7	Wind Load (120)	DL					48	92		
8	Wind Load (150)	DL					48	92		
9	Wind Load (180)	DL					24	46		
10	Wind Load (210)	DL					48	92		
11	Wind Load (240)	DL					48	92		
12	Wind Load (270)	DL					24	46		
13	Wind Load (300)	DL					48	92		
14	Wind Load (330)	DL					48	92		
15	Maintanence (0)	DL					24	46		
16	Maintanence (30)	DL					48	92		
17	Maintanence (60)	DL					48	92		
18	Maintanence (90)	DL					24	46		
19	Maintanence (120)	DL					48	92		
20	Maintanence (150)	DL					48	92		
21	Maintanence (180)	DL					24	46		
22	Maintanence (210)	DL					48	92		
23	Maintanence (240)	DL					48	92		
24	Maintanence (270)	DL					24	46		
25	Maintanence (300)	DL					48	92		
26	Maintanence (330)	DL					48	92		
27	Ice Dead Load	DL					24	46	8	
28	Ice Wind Load (0)	DL					24	46		
29	Ice Wind Load (30)	DL					48	92		
30	Ice Wind Load (60)	DL					48	92		
31	Ice Wind Load (90)	DL					24	46		
32	Ice Wind Load (120)	DL					48	92		
33	Ice Wind Load (150)	DL					48	92		
34	Ice Wind Load (180)	DL					24	46		
35	Ice Wind Load (210)	DL					48	92		
36	Ice Wind Load (240)	DL					48	92		
37	Ice Wind Load (270)	DL					24	46		
38	Ice Wind Load (300)	DL					48	92		
39	Ice Wind Load (330)	DL					48	92		
40	Earthquake (x-direction)	DL	-.114				24			

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribut...	Area(M...	Surface...
41	Earthquake (y-direction)	DL		-.114			24			
42	Earthquake (z-direction)	DL			-.046		24			
43	BLC 3 Transient Area Loads	None						67		
44	BLC 27 Transient Area Loads	None						67		

Load Combinations

	Description	Solve	P...	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
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 + 1.0Wi(0)	Yes	Y		3	1.2	27	1	28	1														
4	1.2D + 1.5L + 1.0Wl(0)	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 + 1.0Wi(...	Yes	Y		3	1.2	27	1	29	1														
7	1.2D + 1.5L + 1.0Wl(3...	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 + 1.0Wi(...	Yes	Y		3	1.2	27	1	30	1														
10	1.2D + 1.5L + 1.0Wl(6...	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 + 1.0Wi(...	Yes	Y		3	1.2	27	1	31	1														
13	1.2D + 1.5L + 1.0Wl(9...	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 + 1.0Wi(...	Yes	Y		3	1.2	27	1	32	1														
16	1.2D + 1.5L + 1.0Wl(1...	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 + 1.0Wi(...	Yes	Y		3	1.2	27	1	33	1														
19	1.2D + 1.5L + 1.0Wl(1...	Yes	Y		3	1.2	1	1.5	20	1														
20	1.2D + 1.0W(180)	Yes	Y		3	1.2	9	1																
21	1.2D + 1.0Di + 1.0Wi(...	Yes	Y		3	1.2	27	1	34	1														
22	1.2D + 1.5L + 1.0Wl(1...	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 + 1.0Wi(...	Yes	Y		3	1.2	27	1	35	1														
25	1.2D + 1.5L + 1.0Wl(2...	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 + 1.0Wi(...	Yes	Y		3	1.2	27	1	36	1														
28	1.2D + 1.5L + 1.0Wl(2...	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 + 1.0Wi(...	Yes	Y		3	1.2	27	1	37	1														
31	1.2D + 1.5L + 1.0Wl(2...	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 + 1.0Wi(...	Yes	Y		3	1.2	27	1	38	1														
34	1.2D + 1.5L + 1.0Wl(3...	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 + 1.0Wi(...	Yes	Y		3	1.2	27	1	39	1														
37	1.2D + 1.5L + 1.0Wl(3...	Yes	Y		3	1.2	1	1.5	26	1														
38	1.2D + 1.0E(x) + 1.0E...	Yes	Y		3	1.2	40	1	42	1	1	1												
39	1.2D + 1.0E(y) + 1.0E...	Yes	Y		3	1.2	41	1	42	1	1	1												
40	1.2D - 1.0E(x) + 1.0E(...	Yes	Y		3	1.2	40	-1	42	1	1	1												
41	1.2D - 1.0E(y) + 1.0E(...	Yes	Y		3	1.2	41	-1	42	1	1	1												

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	N149A	max	-.138	14	-.522	2	2.793	9	.81	23	3.047	10	1.02	17
2		min	-2.571	33	-4.442	21	-.023	26	-1.967	5	-.515	26	-1.21	35
3	N145A	max	.519	11	4.204	36	2.522	18	3.479	17	.342	14	1.113	29

Envelope Joint Reactions (Continued)

	Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
4		min	-2.945	29	.782	17	-.223	35	-1.109	35	-.622	29	-1.164	11
5	N155A	max	5.118	12	1.663	5	2.816	33	.206	14	1.015	11	1.106	5
6		min	.919	29	-1.519	23	-.084	14	-1.874	33	-3.257	29	-1.204	23
7	Totals:	max	3.983	11	4.049	2	7.231	18						
8		min	-3.983	29	-4.146	20	3.555	35						

Envelope AISC 14th(360-10): LRFD Steel Code Checks

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc.....		LC	phi*Pn...	phi*Pn...	phi*Mn...	phi*Mn...	Cb	Eqn
1	CONNAN...	L3X3X6	.340	.5	5	.236	.5	z	9	66.846	68.364	2.307	5.322	1.511	H2-1
2	CONNAN...	L3X3X6	.338	.5	32	.239	.5	z	33	66.846	68.364	2.307	5.322	1.763	H2-1
3	CONNAN...	L3X3X6	.332	.5	20	.215	.5	z	21	66.846	68.364	2.307	5.322	1.479	H2-1
4	CORNER1	C5X9	.605	1.727	5	.460	1.727	y	9	47.924	85.536	1.909	11.853	1.386	H1-1b
5	CORNER2	C5X9	.462	2.523	32	.467	1.727	y	33	47.924	85.536	1.909	11.853	1.382	H1-1b
6	CORNER3	C5X9	.583	1.727	20	.418	1.727	y	21	47.924	85.536	1.909	11.853	1.385	H1-1b
7	FACE1	C5X9	.253	4.952	5	.183	4.304	y	10	30.564	85.536	1.909	11.853	1.612	H1-1b
8	FACE2	C5X9	.350	4.257	5	.123	4.257	y	30	36.252	85.536	1.909	11.853	2.148	H1-1b
9	FACE3	C5X9	.315	4.245	26	.168	4.304	y	21	30.564	85.536	1.909	11.853	1.294	H1-1b
10	FACE4	C5X9	.325	4.257	17	.127	4.257	y	7	36.252	85.536	1.909	11.853	2.198	H1-1b
11	FACE5	C5X9	.339	4.245	23	.186	4.304	y	33	30.564	85.536	1.909	11.853	1.71	H1-1b
12	FACE6	C5X9	.241	4.257	29	.115	4.257	y	17	36.252	85.536	1.909	11.853	2.177	H1-1b
13	LADDER1	L1.75x1....	.185	6	5	.018	3.75	y	23	2.321	26.325	.513	1.06	1.66	H2-1
14	LADDER2	L1.75x1....	.154	6	20	.018	3.75	y	20	2.321	26.325	.513	1.049	1.58	H2-1
15	LADDER...	3/8 x 4	.004	.5	35	.000	.5	y	26	25.45	48.6	.38	3.791	1	H1-1b
16	LADDER...	3/8 x 4	.004	.5	35	.000	.5	y	26	25.45	48.6	.38	3.791	1	H1-1b
17	M PIPE1	PIPE_2.0	.012	2.833	11	.115	0		23	29.182	32.13	1.872	1.872	1.136	H1-1b*
18	M PIPE2	PIPE_2.0	.011	2.833	23	.122	2.833		35	29.182	32.13	1.872	1.872	1.136	H1-1b*
19	M PIPE3	PIPE_2.0	.012	0	35	.115	0		11	29.182	32.13	1.872	1.872	1.136	H1-1b*
20	M RAIL1	PIPE_2.0	.263	4.628	35	.189	4.628		2	9.213	32.13	1.872	1.872	1.532	H1-1b
21	M RAIL2	PIPE_2.0	.264	4.736	20	.188	2.583		32	9.213	32.13	1.872	1.872	1.49	H1-1b
22	M RAIL3	PIPE_2.0	.267	4.736	32	.193	2.583		8	9.213	32.13	1.872	1.872	1.382	H1-1b
23	MP ALP...	PIPE_2.0	.352	2.5	8	.125	2.5		8	14.916	32.13	1.872	1.872	2.212	H1-1b
24	MP ALP...	PIPE_2.0	.355	2.5	11	.114	2.5		8	14.916	32.13	1.872	1.872	2.696	H1-1b
25	MP ALP...	PIPE_2.0	.303	2.5	32	.114	2.5		35	14.916	32.13	1.872	1.872	2.039	H1-1b
26	MP BETA1	PIPE_2.0	.344	2.5	20	.126	2.5		20	14.916	32.13	1.872	1.872	2.201	H1-1b
27	MP BETA2	PIPE_2.0	.361	2.5	2	.141	2.5		2	14.916	32.13	1.872	1.872	2.151	H1-1b
28	MP BETA3	PIPE_2.0	.272	2.5	8	.114	2.5		8	14.916	32.13	1.872	1.872	2.061	H1-1b
29	MP GAM...	PIPE_2.0	.359	2.5	32	.112	2.5		32	14.916	32.13	1.872	1.872	2.175	H1-1b
30	MP GAM...	PIPE_2.0	.370	2.5	17	.104	2.5		2	14.916	32.13	1.872	1.872	2.442	H1-1b
31	MP GAM...	PIPE_2.0	.292	2.5	20	.119	2.5		23	14.916	32.13	1.872	1.872	2.009	H1-1b
32	R ANGLE1	L2.5x2.5x4	.183	.817	23	.060	0	y	23	37.725	38.556	1.114	2.537	2.223	H2-1
33	R ANGLE2	L2.5x2.5x4	.188	.817	35	.062	0	y	35	37.725	38.556	1.114	2.537	2.218	H2-1
34	R ANGLE3	L2.5x2.5x4	.179	.817	11	.058	0	y	11	37.725	38.556	1.114	2.537	2.225	H2-1
35	RUNG1	SR 5/8	.074	0	14	.016	1		23	7.287	9.94	.104	.104	2.038	H1-1b
36	RUNG2	SR 5/8	.091	1	32	.019	0		20	7.287	9.94	.104	.104	2.179	H1-1b
37	RUNG3	SR 5/8	.109	1	32	.026	0		20	7.287	9.94	.104	.104	2.186	H1-1b
38	RUNG4	SR 5/8	.111	1	32	.028	0		20	7.287	9.94	.104	.104	2.068	H1-1b
39	RUNG5	SR 5/8	.078	1	32	.019	0		20	7.287	9.94	.104	.104	2.268	H1-1b
40	RUNG6	SR 5/8	.015	1	8	.015	1		5	7.287	9.94	.104	.104	1.211	H1-1b
41	RUNG7	SR 5/8	.018	1	11	.015	1		5	7.287	9.94	.104	.104	2.202	H1-1b
42	SO1	HSS3X3...	.557	0	7	.352	0	z	9	99.253	101.016	8.556	8.556	1.244	H3-6
43	SO2	HSS3X3...	.493	0	17	.321	0	z	21	99.253	101.016	8.556	8.556	1.184	H3-6
44	SO3	HSS3X3...	.543	0	32	.360	0	z	33	99.253	101.016	8.556	8.556	1.529	H3-6
45	SUPPOR...	C5X9	.269	1.834	14	.076	1.857	z	11	72.937	85.536	1.909	11.853	1.294	H1-1b
46	SUPPOR...	C5X9	.023	1.75	14	.205	1.75	z	23	77.531	85.536	1.909	11.853	3.589	H1-1b*

APPENDIX D

Additional Calculations

POD
POWER OF DESIGN

POD Job #	**22-125995**	
Site Number	**806358**	
Site Name	**NVH 109 943107**	
Reference Code	LRFD	
RISA-3D Values		
Von Mises Stress	16.788	ksi
Load Combination	1	
Plate Info		
Yield Strength	36	ksi
Plate Check		
∅	0.9	
Allowable Stress	32.4	ksi

Capacity	**51.8%**	**Pass**

Date: **April 25, 2022**

Crown Castle
2000 Corporate Drive
Canonsburg, PA 15317
724-416-2000

Subject:	**Structural Analysis Report**	
Carrier Designation:	***T-Mobile* Co-Locate**	
	Site Number:	CT11127A
	Site Name:	Middlebury/ I-84 X16
Crown Castle Designation:	**BU Number:**	806358
	Site Name:	NHV 109 943107
	JDE Job Number:	614600
	Work Order Number:	2099514
	Order Number:	524459 Rev. 4
Engineering Firm Designation:	**Crown Castle Project Number:**	2099514
Site Data:	**1432 Old Waterbury Road, SOUTHBURY, NEW HAVEN County, CT** **Latitude *41° 29' 36.92"*, Longitude *-73° 9' 54.98"*** **225.79 Foot - Monopole Tower**	

Crown Castle 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 – 62.2%**

This analysis utilizes an ultimate 3-second gust wind speed of 116 mph as required by the 2018 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Carol Ng, E.I.T.

Respectfully submitted by:

Digitally signed by Maham Barimani
Date: 2022.04.26 15:57:02 -04'00'

STATE OF CONNECTICUT
MAHAM BARIMANI
30501
LICENSED
PROFESSIONAL ENGINEER

Maham Barimani, P.E.
Senior Project Engineer

TABLE OF CONTENTS

1) INTRODUCTION

This tower is a 225.79 ft Monopole tower designed by ENGINEERED ENDEAVORS, INC.

The tower has been modified multiple times in the past to accommodate additional loading.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	116 mph
Exposure Category:	B
Topographic Factor:	1
Ice Thickness:	1 in
Wind Speed with Ice:	50 mph
Service Wind Speed:	60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
205.0	207.0	3	commscope	VV-65A-R1_TMO w/ Mount Pipe	3	1-5/8
		3	ericsson	AIR6449 B41 w/ Mount Pipe		
		3	ericsson	RADIO 4460 B2/B25 B66_TMO		
		3	ericsson	Radio 4480_TMOV2		
		3	rfs celwave	APXVAALL24_43-U-NA20_TMO w/ Mount Pipe		
	205.0	1	tower mounts	Platform Mount [10.8' LP 712-1]		
		-	-	Mount Modifications		

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)
228.0	230.0	2	raycap	RRFDC-3315-PF-48	14	1-5/8
	228.0	1	tower mounts	Platform Mount (10' LP 101-1)		
		6	jma wireless	MX06FRO660-03 w/ Mount Pipe		
		3	samsung telecommunications	MT6407-77A w/ Mount Pipe		
		3	samsung telecommunications	RF4439D-25A		
		3	samsung telecommunications	RF4440D-13A		
		1	tower mounts	Side Arm Mount [SO 203-3]		
218.0	218.0	3	fujitsu	TA08025-B604	1	1-3/4
		3	fujitsu	TA08025-B605		
		3	jma wireless	MX08FRO665-21 w/ Mount Pipe		
		1	raycap	RDIDC-9181-PF-48		
		1	tower mounts	Commscope MC-PK8-DSH		
196.0	196.0	1	Sabre	C10857333C [SM 504-3]	2	3/8

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
		3	cci antennas	DTMABP7819VG12A	6 12 2	5/8 1-1/4 Conduit
		3	cci antennas	OPA-65R-LCUU-H6 w/ Mount Pipe		
		3	cci antennas	OPA65R-BU6D w/ Mount Pipe		
		3	ericsson	RRUS 11 B12		
		3	ericsson	RRUS 32 B2		
		3	ericsson	RRUS 4426 B66		
		3	ericsson	RRUS 4478 B14_CCIV2		
		3	kaelus	DBC0061F1V51-2		
		3	kathrein	800 10121 w/ Mount Pipe		
		3	kathrein	80010798 w/ Mount Pipe		
		6	kathrein	860 10025		
		3	raycap	DC6-48-60-18-8F		
185.0	187.0	3	decibel	978QNB120E-M w/ Mount Pipe	1 6	1/2 1-5/8
		6	ems wireless	FV90-16-02DP w/ Mount Pipe		
		3	nokia	CS72993.07		
		3	rfs celwave	APXV18-206517S-C w/ Mount Pipe		
	185.0	1	tower mounts	Platform Mount [LP 712-1]		
173.0	173.0	3	alcatel lucent	1900MHz RRH (65MHz)	-	-
		3	alcatel lucent	800 EXTERNAL NOTCH FILTER		
		3	alcatel lucent	800MHZ RRH		
		9	rfs celwave	ACU-A20-N		
		1	tower mounts	Side Arm Mount [SO 102-3]		
172.0	173.0	3	alcatel lucent	TD-RRH8x20-25	4	1-1/4
		3	rfs celwave	APXVSPP18-C-A20 w/ Mount Pipe		
		3	rfs celwave	APXVTM14-C-120 w/ Mount Pipe		
	172.0	1	tower mounts	Platform Mount [LP 1201-1]		
72.0	73.0	1	gps	GPS_A	1	1/2
	72.0	1	tower mounts	Side Arm Mount [SO 701-1]		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
4-GEOTECHNICAL REPORTS	217688	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	821496	CCISITES
4-TOWER MANUFACTURER DRAWINGS	821494	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	1276594	CCISITES
4-POST-MODIFICATION INSPECTION	1863184	CCISITES

Document	Reference	Source
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	4062841	CCISITES
4-POST-MODIFICATION INSPECTION	4062849	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. Crown Castle 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	225.79 - 197.75	Pole	TP28.6563x21.5x0.1875	1	-11.77	1002.63	42.4	Pass
L2	197.75 - 162.72	Pole	TP37.0938x27.24x0.375	2	-29.08	2589.87	45.0	Pass
L3	162.72 - 120.09	Pole	TP47.1563x35.0487x0.4375	3	-42.88	3846.79	54.7	Pass
L4	120.09 - 78.99	Pole	TP56.6563x44.6617x0.5	4	-60.37	5287.57	54.0	Pass
L5	78.99 - 38.92	Pole	TP65.7813x53.7418x0.5625	5	-82.50	6910.70	50.7	Pass
L6	38.92 - 0	Pole	TP74.5x62.453x0.5625	6	-113.61	8108.48	53.8	Pass
							Summary	
						Pole (L3)	54.7	Pass
						Rating =	54.7	Pass

Table 5 - Tower Component Stresses vs. Capacity - LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	57.8	Pass
1	Base Plate	0	43.4	Pass
1,2	Base Foundation (Compared w/ Design Loads)	0	62.2	Pass

Structure Rating (max from all components) =	62.2%

Notes:
1) See additional documentation in “Appendix C – Additional Calculations” for calculations supporting the % capacity consumed.
2) Foundation capacity determined by comparing analysis reactions to original design reactions.

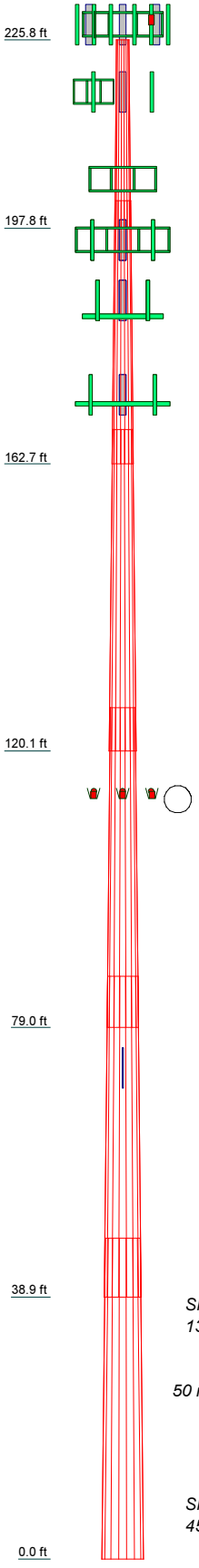
4.1) Recommendations

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	28.04	18	0.1875	4.08	21.5000	28.6563	A572-65	1.4
2	39.11	18	0.3750	5.14	27.2400	37.0938		5.0
3	47.77	18	0.4375	6.39	35.0487	47.1563		9.2
4	47.49	18	0.5000	7.58	44.6617	56.6563		12.9
5	47.65	18	0.5625	8.72	53.7418	65.7813		17.1
6	47.64	18	0.5625		62.4530	74.5000		19.7
								65.3



ALL REACTIONS ARE FACTORED

AXIAL 157 K

SHEAR 13 K *MOMENT 2170 kip-ft*

TORQUE 4 kip-ft
50 mph WIND - 1.0000 in ICE

AXIAL 114 K

SHEAR 45 K *MOMENT 7446 kip-ft*

TORQUE 9 kip-ft
REACTIONS - 116 mph WIND

MATERIAL STRENGTH

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

TOWER DESIGN NOTES

1. Tower is located in New Haven County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-H Standard.
3. Tower designed for a 116 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 54.7%

CROWN CASTLE
Pathway to Possible

Crown Castle
2000 Corporate Drive
Canonsburg, PA 15317
Phone: 724-416-2000
FAX:

Job: ***BU# 806358***			
Project:			
Client: Crown Castle	Drawn by: CNg	App'd:	
Code: TIA-222-H	Date: 04/25/22	Scale: NTS	
Path: C:\Users\cng\Desktop\Working from Home 2021\806358\WO 2099514 - SA\Prod\806358.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 New Haven County, Connecticut.
- Tower base elevation above sea level: 666.00 ft.
- Basic wind speed of 116 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 1.0000 in.
- Ice thickness is considered to increase with height.
- Ice density of 56 pcf.
- A wind speed of 50 mph is used in combination with ice.
- Temperature drop of 50 °F.
- Deflections calculated using a wind speed of 60 mph.
- 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 ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	225.79-197.75	28.04	4.08	18	21.5000	28.6563	0.1875	0.7500	A572-65 (65 ksi)
L2	197.75-162.72	39.11	5.14	18	27.2400	37.0938	0.3750	1.5000	A572-65 (65 ksi)
L3	162.72-120.09	47.77	6.39	18	35.0487	47.1563	0.4375	1.7500	A572-65 (65 ksi)
L4	120.09-78.99	47.49	7.58	18	44.6617	56.6563	0.5000	2.0000	A572-65 (65 ksi)
L5	78.99-38.92	47.65	8.72	18	53.7418	65.7813	0.5625	2.2500	A572-65 (65 ksi)
L6	38.92-0.00	47.64		18	62.4530	74.5000	0.5625	2.2500	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	21.8027	12.6836	727.8616	7.5659	10.9220	66.6418	1456.6810	6.3430	3.4540	18.421
	29.0694	16.9425	1734.8057	10.1064	14.5574	119.1702	3471.8941	8.4728	4.7135	25.139
L2	28.6462	31.9760	2915.6455	9.5371	13.8379	210.6999	5835.1275	15.9911	4.1342	11.025
	37.6081	43.7045	7444.5646	13.0352	18.8436	395.0707	14898.9250	21.8564	5.8685	15.649
L3	36.8448	48.0620	7274.0008	12.2870	17.8048	408.5427	14557.5728	24.0356	5.3986	12.34
	47.8162	64.8748	17889.4123	16.5852	23.9554	746.7807	35802.3639	32.4436	7.5295	17.21
L4	46.9123	70.0846	17268.3558	15.6774	22.6881	761.1185	34559.4338	35.0489	6.9805	13.961
	57.4531	89.1200	35506.5661	19.9355	28.7814	1233.6647	71059.8527	44.5685	9.0915	18.183
L5	56.4288	94.9449	33922.9718	18.8786	27.3008	1242.5625	67890.5803	47.4815	8.4686	15.055
	66.7093	116.4399	62572.6159	23.1527	33.4169	1872.4856	125227.5665	58.2310	10.5875	18.822
L6	65.5688	110.4978	53473.5634	21.9711	31.7261	1685.4739	107017.4887	55.2594	10.0017	17.781
	75.5625	132.0062	91171.9378	26.2478	37.8460	2409.0244	182463.8419	66.0156	12.1220	21.55

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 225.79-197.75				1	1	1			
L2 197.75-162.72				1	1	1			
L3 162.72-120.09				1	1	1			
L4 120.09-78.99				1	1	1			
L5 78.99-38.92				1	1	1			
L6 38.92-0.00				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
Safety Line 3/8	A	No	Surface Ar (CaAa)	225.78 - 8.00	1	1	-0.080 -0.070	0.3750		0.22
HB158-1-08U8-S8J18(1-5/8)	C	No	Surface Ar (CaAa)	225.79 - 8.00	2	1	0.220 0.260	1.9800		1.30
***										
WR-VG82ST-BRDA(5/8)	A	No	Surface Ar (CaAa)	196.00 - 8.00	2	2	-0.300 -0.280	0.6450		0.31
WR-VG82ST-BRDA(5/8)	A	No	Surface Ar (CaAa)	196.00 - 8.00	2	2	-0.320 -0.300	0.6450		0.31
LDF6-50A(1-1/4)	A	No	Surface Ar (CaAa)	196.00 - 8.00	3	3	-0.410 -0.320	1.5500		0.60
***										
LDF7-50A(1-5/8)	C	No	Surface Ar (CaAa)	185.00 - 8.00	6	6	-0.070 0.350	1.9800		0.82
LDF4-50A(1/2)	C	No	Surface Ar (CaAa)	185.00 - 8.00	1	1	0.480 0.490	0.6300		0.15
*****										
PL1x6 Reinforcement - Wind Area/Weight	A	No	Surface Af (CaAa)	134.00 - 124.00	1	1	0.000 0.000	6.0000	14.0000	20.41
PL1x6 Reinforcement - Wind Area/Weight	B	No	Surface Af (CaAa)	134.00 - 124.00	1	1	0.000 0.000	6.0000	14.0000	20.41
PL1x6 Reinforcement - Wind Area/Weight	C	No	Surface Af (CaAa)	134.00 - 124.00	1	1	0.000 0.000	6.0000	14.0000	20.41
***										
CU12PSM6P4XXX(1-3/4)	A	No	Surface Ar (CaAa)	218.00 - 0.00	1	1	0.000 0.500	1.7500		2.72
***										

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
***									
561(1-5/8)	C	No	No	Inside Pole	225.79 - 0.00	12	No Ice	0.00	1.35
							1/2" Ice	0.00	1.35
							1" Ice	0.00	1.35
***									
HCS 6X12 4AWG(1-5/8)	C	No	No	Inside Pole	205.00 - 0.00	3	No Ice	0.00	2.40
							1/2" Ice	0.00	2.40
							1" Ice	0.00	2.40
LDF6-50A(1-1/4)	C	No	No	Inside Pole	196.00 - 0.00	9	No Ice	0.00	0.60
							1/2" Ice	0.00	0.60
							1" Ice	0.00	0.60
WR-VG82ST-BRDA(5/8)	C	No	No	Inside Pole	196.00 - 0.00	2	No Ice	0.00	0.31
							1/2" Ice	0.00	0.31
							1" Ice	0.00	0.31
FB-L98B-034-XXX(3/8)	C	No	No	Inside Pole	196.00 - 0.00	2	No Ice	0.00	0.06
							1/2" Ice	0.00	0.06
							1" Ice	0.00	0.06
2" innerduct conduit	C	No	No	Inside Pole	196.00 - 0.00	1	No Ice	0.00	0.20
							1/2" Ice	0.00	0.20
							1" Ice	0.00	0.20
***									
HB114-21U3M12-XXXF(1-1/4)	C	No	No	Inside Pole	172.00 - 0.00	1	No Ice	0.00	1.22
							1/2" Ice	0.00	1.22
							1" Ice	0.00	1.22
HB114-1-0813U4-M5J(1-1/4)	C	No	No	Inside Pole	172.00 - 0.00	3	No Ice	0.00	1.20
							1/2" Ice	0.00	1.20
							1" Ice	0.00	1.20
***									
LDF4-50A(1/2)	C	No	No	Inside Pole	72.00 - 0.00	1	No Ice	0.00	0.15
							1/2" Ice	0.00	0.15
							1" Ice	0.00	0.15

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

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	225.79-197.75	A	0.000	0.000	4.595	0.000	0.06
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	5.552	0.000	0.58
L2	197.75-162.72	A	0.000	0.000	31.505	0.000	0.20
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	34.808	0.000	1.28
L3	162.72-120.09	A	0.000	0.000	49.002	0.000	0.46
		B	0.000	0.000	9.121	0.000	0.20
		C	0.000	0.000	70.892	0.000	2.00
L4	120.09-78.99	A	0.000	0.000	38.449	0.000	0.25
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	59.554	0.000	1.74
L5	78.99-38.92	A	0.000	0.000	37.485	0.000	0.24
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	58.061	0.000	1.70
L6	38.92-0.00	A	0.000	0.000	30.326	0.000	0.21
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	44.803	0.000	1.59

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	225.79-197.75	A	1.023	0.000	0.000	14.476	0.000	0.18
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	11.291	0.000	0.79
L2	197.75-162.72	A	1.007	0.000	0.000	77.402	0.000	0.76
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	58.855	0.000	1.88
L3	162.72-120.09	A	0.983	0.000	0.000	107.164	0.000	1.22
		B		0.000	0.000	10.215	0.000	0.27
		C		0.000	0.000	112.548	0.000	3.03
L4	120.09-78.99	A	0.949	0.000	0.000	92.323	0.000	0.89
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	98.012	0.000	2.63
L5	78.99-38.92	A	0.901	0.000	0.000	88.452	0.000	0.84
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	94.675	0.000	2.54
L6	38.92-0.00	A	0.804	0.000	0.000	69.382	0.000	0.66
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	72.088	0.000	2.20

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in

Section	Elevation	CP_X	CP_Z	CP_X Ice	CP_Z Ice
	ft	in	in	in	in
L1	225.79-197.75	-1.4191	0.4324	-2.0724	0.1952
L2	197.75-162.72	-5.0829	4.1138	-5.1657	2.8228
L3	162.72-120.09	-5.1201	5.1651	-5.5851	3.8965
L4	120.09-78.99	-6.3149	6.3550	-6.6548	4.6564
L5	78.99-38.92	-6.7251	6.7569	-7.1816	5.0600
L6	38.92-0.00	-6.0343	5.7591	-6.6090	4.4345

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	1	Safety Line 3/8	197.75 - 225.78	1.0000	1.0000
L1	4	HB158-1-08U8-S8J18(1-5/8)	197.75 - 225.79	1.0000	1.0000
L1	30	CU12PSM6P4XXX(1-3/4)	197.75 - 218.00	1.0000	1.0000
L2	1	Safety Line 3/8	162.72 - 197.75	1.0000	1.0000
L2	4	HB158-1-08U8-S8J18(1-5/8)	162.72 - 197.75	1.0000	1.0000
L2	10	WR-VG82ST-BRDA(5/8)	162.72 - 196.00	1.0000	1.0000
L2	11	WR-VG82ST-BRDA(5/8)	162.72 - 196.00	1.0000	1.0000
L2	12	LDF6-50A(1-1/4)	162.72 - 196.00	1.0000	1.0000
L2	18	LDF7-50A(1-5/8)	162.72 - 185.00	1.0000	1.0000
L2	19	LDF4-50A(1/2)	162.72 - 185.00	1.0000	1.0000
L2	30	CU12PSM6P4XXX(1-3/4)	162.72 - 197.75	1.0000	1.0000
L3	1	Safety Line 3/8	120.09 - 162.72	1.0000	1.0000
L3	4	HB158-1-08U8-S8J18(1-5/8)	120.09 - 162.72	1.0000	1.0000
L3	10	WR-VG82ST-BRDA(5/8)	120.09 - 162.72	1.0000	1.0000
L3	11	WR-VG82ST-BRDA(5/8)	120.09 - 162.72	1.0000	1.0000
L3	12	LDF6-50A(1-1/4)	120.09 - 162.72	1.0000	1.0000
L3	18	LDF7-50A(1-5/8)	120.09 - 162.72	1.0000	1.0000
L3	19	LDF4-50A(1/2)	120.09 - 162.72	1.0000	1.0000
L3	26	PL1x6 Reinforcement - Wind Area/Weight	124.00 - 134.00	1.0000	1.0000
L3	27	PL1x6 Reinforcement - Wind Area/Weight	124.00 - 134.00	1.0000	1.0000
L3	28	PL1x6 Reinforcement - Wind Area/Weight	124.00 - 134.00	1.0000	1.0000
L3	30	CU12PSM6P4XXX(1-3/4)	120.09 - 162.72	1.0000	1.0000
L4	1	Safety Line 3/8	78.99 - 120.09	1.0000	1.0000
L4	4	HB158-1-08U8-S8J18(1-5/8)	78.99 - 120.09	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L4	10	WR-VG82ST-BRDA(5/8)	78.99 - 120.09	1.0000	1.0000
L4	11	WR-VG82ST-BRDA(5/8)	78.99 - 120.09	1.0000	1.0000
L4	12	LDF6-50A(1-1/4)	78.99 - 120.09	1.0000	1.0000
L4	18	LDF7-50A(1-5/8)	78.99 - 120.09	1.0000	1.0000
L4	19	LDF4-50A(1/2)	78.99 - 120.09	1.0000	1.0000
L4	30	CU12PSM6P4XXX(1-3/4)	78.99 - 120.09	1.0000	1.0000
L5	1	Safety Line 3/8	38.92 - 78.99	1.0000	1.0000
L5	4	HB158-1-08U8-S8J18(1-5/8)	38.92 - 78.99	1.0000	1.0000
L5	10	WR-VG82ST-BRDA(5/8)	38.92 - 78.99	1.0000	1.0000
L5	11	WR-VG82ST-BRDA(5/8)	38.92 - 78.99	1.0000	1.0000
L5	12	LDF6-50A(1-1/4)	38.92 - 78.99	1.0000	1.0000
L5	18	LDF7-50A(1-5/8)	38.92 - 78.99	1.0000	1.0000
L5	19	LDF4-50A(1/2)	38.92 - 78.99	1.0000	1.0000
L5	30	CU12PSM6P4XXX(1-3/4)	38.92 - 78.99	1.0000	1.0000
L6	1	Safety Line 3/8	8.00 - 38.92	1.0000	1.0000
L6	4	HB158-1-08U8-S8J18(1-5/8)	8.00 - 38.92	1.0000	1.0000
L6	10	WR-VG82ST-BRDA(5/8)	8.00 - 38.92	1.0000	1.0000
L6	11	WR-VG82ST-BRDA(5/8)	8.00 - 38.92	1.0000	1.0000
L6	12	LDF6-50A(1-1/4)	8.00 - 38.92	1.0000	1.0000
L6	18	LDF7-50A(1-5/8)	8.00 - 38.92	1.0000	1.0000
L6	19	LDF4-50A(1/2)	8.00 - 38.92	1.0000	1.0000
L6	30	CU12PSM6P4XXX(1-3/4)	0.00 - 38.92	1.0000	1.0000

Effective Width of Flat Linear Attachments / Feed Lines

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L3	26	PL1x6 Reinforcement - Wind Area/Weight	124.00 - 134.00	Manual	1.0000
L3	27	PL1x6 Reinforcement - Wind Area/Weight	124.00 - 134.00	Manual	1.0000
L3	28	PL1x6 Reinforcement - Wind Area/Weight	124.00 - 134.00	Manual	1.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
Lightning Rod 5/8"x5'	C	From Leg	4.00 0.00 2.00	0.00	226.00
Flash Beacon Lighting	B	From Leg	4.00 0.00 2.00	0.00	226.00
Beacon side markers	A	From Face	3.00 0.00 0.00	0.00	113.00
Beacon side markers	B	From Face	3.00 0.00 0.00	0.00	113.00
Beacon side markers	C	From Face	3.00 0.00 0.00	0.00	113.00
***					
(2) MX06FRO660-03 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.00	228.00
(2) MX06FRO660-03 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.00	228.00
(2) MX06FRO660-03 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.00	228.00
MT6407-77A w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.00	228.00
MT6407-77A w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.00	228.00
MT6407-77A w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.00	228.00
RF4439D-25A	A	From Leg	4.00 0.00 0.00	0.00	228.00
RF4439D-25A	B	From Leg	4.00 0.00 0.00	0.00	228.00
RF4439D-25A	C	From Leg	4.00 0.00 0.00	0.00	228.00
RF4440D-13A	A	From Leg	4.00 0.00 0.00	0.00	228.00
RF4440D-13A	B	From Leg	4.00 0.00 0.00	0.00	228.00
RF4440D-13A	C	From Leg	4.00 0.00 0.00	0.00	228.00
RRFDC-3315-PF-48	B	From Leg	4.00 0.00 2.00	0.00	228.00
RRFDC-3315-PF-48	C	From Leg	4.00 0.00 2.00	0.00	228.00
**					
Platform Mount (10' LP 101-1)	C	None		0.00	228.00
Side Arm Mount [SO 203-3]	C	None		0.00	228.00
Transition Ladder	C	From Leg	2.00 0.00 -2.00	0.00	228.00
Mount Reinforcement Specifications	C	None		0.00	228.00

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
***					
MX08FRO665-21 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.00	218.00
MX08FRO665-21 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.00	218.00
MX08FRO665-21 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.00	218.00
TA08025-B604	A	From Leg	4.00 0.00 0.00	0.00	218.00
TA08025-B604	B	From Leg	4.00 0.00 0.00	0.00	218.00
TA08025-B604	C	From Leg	4.00 0.00 0.00	0.00	218.00
TA08025-B605	A	From Leg	4.00 0.00 0.00	0.00	218.00
TA08025-B605	B	From Leg	4.00 0.00 0.00	0.00	218.00
TA08025-B605	C	From Leg	4.00 0.00 0.00	0.00	218.00
RDIDC-9181-PF-48	A	From Leg	4.00 0.00 0.00	0.00	218.00
(2) 8' x 2'' Mount Pipe	A	From Leg	4.00 0.00 0.00	0.00	218.00
(2) 8' x 2'' Mount Pipe	B	From Leg	4.00 0.00 0.00	0.00	218.00
(2) 8' x 2'' Mount Pipe	C	From Leg	4.00 0.00 0.00	0.00	218.00
Commscope MC-PK8-DSH	C	From Leg	4.00 0.00 0.00	0.00	218.00
*					
VV-65A-R1_TMO w/ Mount Pipe	A	From Leg	4.00 0.00 2.00	0.00	205.00
VV-65A-R1_TMO w/ Mount Pipe	B	From Leg	4.00 0.00 2.00	0.00	205.00
VV-65A-R1_TMO w/ Mount Pipe	C	From Leg	4.00 0.00 2.00	0.00	205.00
AIR6449 B41 w/ Mount Pipe	A	From Leg	4.00 0.00 2.00	0.00	205.00
AIR6449 B41 w/ Mount Pipe	B	From Leg	4.00 0.00 2.00	0.00	205.00
AIR6449 B41 w/ Mount Pipe	C	From Leg	4.00 0.00 2.00	0.00	205.00
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	A	From Leg	4.00 0.00 2.00	0.00	205.00

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	B	From Leg	4.00 0.00 2.00	0.00	205.00
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	C	From Leg	4.00 0.00 2.00	0.00	205.00
RADIO 4460 B2/B25 B66_TMO	A	From Leg	4.00 0.00 2.00	0.00	205.00
RADIO 4460 B2/B25 B66_TMO	B	From Leg	4.00 0.00 2.00	0.00	205.00
RADIO 4460 B2/B25 B66_TMO	C	From Leg	4.00 0.00 2.00	0.00	205.00
Radio 4480_TMOV2	A	From Leg	4.00 0.00 2.00	0.00	205.00
Radio 4480_TMOV2	B	From Leg	4.00 0.00 2.00	0.00	205.00
Radio 4480_TMOV2	C	From Leg	4.00 0.00 2.00	0.00	205.00
Platform Mount [10.8' LP 712-1]	C	None		0.00	205.00
Transition Ladder	C	From Leg	2.00 0.00 -4.50	0.00	205.00
12.5' x 2.375" Horizontal Mount Pipe	A	From Leg	4.00 0.00 0.00	0.00	205.00
12.5' x 2.375" Horizontal Mount Pipe	B	From Leg	4.00 0.00 0.00	0.00	205.00
12.5' x 2.375" Horizontal Mount Pipe	C	From Leg	4.00 0.00 0.00	0.00	205.00
6' x 2" Horizontal Mount Pipe	A	From Face	2.00 0.00 0.00	0.00	205.00
6' x 2" Horizontal Mount Pipe	B	From Face	2.00 0.00 0.00	0.00	205.00
6' x 2" Horizontal Mount Pipe	C	From Face	2.00 0.00 0.00	0.00	205.00
***					
800 10121 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.00	196.00
800 10121 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.00	196.00
800 10121 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.00	196.00
OPA-65R-LCUU-H6 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.00	196.00
OPA-65R-LCUU-H6 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.00	196.00
OPA-65R-LCUU-H6 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.00	196.00

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft Vert ft ft	Azimuth Adjustment °	Placement ft
OPA65R-BU6D w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.00	196.00
OPA65R-BU6D w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.00	196.00
OPA65R-BU6D w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.00	196.00
80010798 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.00	196.00
80010798 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.00	196.00
80010798 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.00	196.00
DTMABP7819VG12A	A	From Leg	4.00 0.00 0.00	0.00	196.00
DTMABP7819VG12A	B	From Leg	4.00 0.00 0.00	0.00	196.00
DTMABP7819VG12A	C	From Leg	4.00 0.00 0.00	0.00	196.00
(2) 860 10025	A	From Leg	4.00 0.00 0.00	0.00	196.00
(2) 860 10025	B	From Leg	4.00 0.00 0.00	0.00	196.00
(2) 860 10025	C	From Leg	4.00 0.00 0.00	0.00	196.00
RRUS 11 B12	A	From Leg	4.00 0.00 0.00	0.00	196.00
RRUS 11 B12	B	From Leg	4.00 0.00 0.00	0.00	196.00
RRUS 11 B12	C	From Leg	4.00 0.00 0.00	0.00	196.00
DC6-48-60-18-8F	B	From Leg	1.00 0.00 0.00	0.00	196.00
DC6-48-60-18-8F	A	From Leg	1.00 0.00 0.00	0.00	196.00
DC6-48-60-18-8F	B	From Leg	1.00 0.00 0.00	0.00	196.00
RRUS 4478 B14_CCIV2	A	From Leg	4.00 0.00 0.00	0.00	196.00
RRUS 4478 B14_CCIV2	B	From Leg	4.00 0.00 0.00	0.00	196.00
RRUS 4478 B14_CCIV2	C	From Leg	4.00 0.00 0.00	0.00	196.00
RRUS 32 B2	A	From Leg	4.00 0.00	0.00	196.00

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
RRUS 32 B2	B	From Leg	0.00 4.00 0.00	0.00	196.00
RRUS 32 B2	C	From Leg	0.00 4.00 0.00	0.00	196.00
DBC0061F1V51-2	A	From Leg	0.00 4.00 0.00	0.00	196.00
DBC0061F1V51-2	B	From Leg	0.00 4.00 0.00	0.00	196.00
DBC0061F1V51-2	C	From Leg	0.00 4.00 0.00	0.00	196.00
RRUS 4426 B66	A	From Leg	0.00 4.00 0.00	0.00	196.00
RRUS 4426 B66	B	From Leg	0.00 4.00 0.00	0.00	196.00
RRUS 4426 B66	C	From Leg	0.00 4.00 0.00	0.00	196.00
Sabre C10857333C [SM 504-3]	C	None	0.00	0.00	196.00
Transition Ladder	C	From Leg	2.00 0.00 -2.00	0.00	196.00
***					
APXV18-206517S-C w/ Mount Pipe	A	From Leg	3.00 0.00 2.00	0.00	185.00
APXV18-206517S-C w/ Mount Pipe	B	From Leg	3.00 0.00 2.00	0.00	185.00
APXV18-206517S-C w/ Mount Pipe	C	From Leg	3.00 0.00 2.00	0.00	185.00
978QNB120E-M w/ Mount Pipe	A	From Leg	3.00 0.00 2.00	0.00	185.00
978QNB120E-M w/ Mount Pipe	B	From Leg	3.00 0.00 2.00	0.00	185.00
978QNB120E-M w/ Mount Pipe	C	From Leg	3.00 0.00 2.00	0.00	185.00
FV90-16-02DP w/ Mount Pipe	A	From Leg	3.00 0.00 2.00	0.00	185.00
FV90-16-02DP w/ Mount Pipe	B	From Leg	3.00 0.00 2.00	0.00	185.00
FV90-16-02DP w/ Mount Pipe	C	From Leg	3.00 0.00 2.00	0.00	185.00
FV90-16-02DP w/ Mount Pipe	A	From Leg	3.00 0.00 2.00	0.00	185.00
FV90-16-02DP w/ Mount Pipe	B	From Leg	3.00 0.00 2.00	0.00	185.00
FV90-16-02DP w/ Mount Pipe	C	From Leg	3.00 0.00	0.00	185.00

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
CS72993.07	A	From Leg	2.00 3.00 0.00	0.00	185.00
CS72993.07	B	From Leg	2.00 3.00 0.00	0.00	185.00
CS72993.07	C	From Leg	2.00 3.00 0.00	0.00	185.00
Platform Mount [LP 712-1]	C	None	2.00	0.00	185.00
Transition Ladder	C	From Leg	2.00 0.00 -2.00	0.00	185.00
***					
800 EXTERNAL NOTCH FILTER	A	From Leg	1.00 0.00 0.00	0.00	173.00
800 EXTERNAL NOTCH FILTER	B	From Leg	1.00 0.00 0.00	0.00	173.00
800 EXTERNAL NOTCH FILTER	C	From Leg	1.00 0.00 0.00	0.00	173.00
(3) ACU-A20-N	A	From Leg	1.00 0.00 0.00	0.00	173.00
(3) ACU-A20-N	B	From Leg	1.00 0.00 0.00	0.00	173.00
(3) ACU-A20-N	C	From Leg	1.00 0.00 0.00	0.00	173.00
1900MHz RRH (65MHz)	A	From Leg	1.00 0.00 0.00	0.00	173.00
1900MHz RRH (65MHz)	B	From Leg	1.00 0.00 0.00	0.00	173.00
1900MHz RRH (65MHz)	C	From Leg	1.00 0.00 0.00	0.00	173.00
800MHZ RRH	A	From Leg	1.00 0.00 0.00	0.00	173.00
800MHZ RRH	B	From Leg	1.00 0.00 0.00	0.00	173.00
800MHZ RRH	C	From Leg	1.00 0.00 0.00	0.00	173.00
6'x2" Mount Pipe	A	From Leg	0.50 0.00 0.00	0.00	173.00
6'x2" Mount Pipe	B	From Leg	0.50 0.00 0.00	0.00	173.00
6'x2" Mount Pipe	C	From Leg	0.50 0.00 0.00	0.00	173.00
Side Arm Mount [SO 102-3]	C	None		0.00	173.00
***					
APXVTM14-C-120 w/ Mount Pipe	A	From Leg	4.00 0.00 1.00	0.00	172.00

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
APXVTM14-C-120 w/ Mount Pipe	B	From Leg	4.00 0.00 1.00	0.00	172.00
APXVTM14-C-120 w/ Mount Pipe	C	From Leg	4.00 0.00 1.00	0.00	172.00
APXVSPP18-C-A20 w/ Mount Pipe	A	From Leg	4.00 0.00 1.00	0.00	172.00
APXVSPP18-C-A20 w/ Mount Pipe	B	From Leg	4.00 0.00 1.00	0.00	172.00
APXVSPP18-C-A20 w/ Mount Pipe	C	From Leg	4.00 0.00 1.00	0.00	172.00
TD-RRH8x20-25	A	From Leg	4.00 0.00 1.00	0.00	172.00
TD-RRH8x20-25	B	From Leg	4.00 0.00 1.00	0.00	172.00
TD-RRH8x20-25	C	From Leg	4.00 0.00 1.00	0.00	172.00
Platform Mount [LP 1201-1]	C	None		0.00	172.00
6'x2" Mount Pipe	A	From Leg	4.00 0.00 0.00	0.00	172.00
6'x2" Mount Pipe	B	From Leg	4.00 0.00 0.00	0.00	172.00
6'x2" Mount Pipe	C	From Leg	4.00 0.00 0.00	0.00	172.00
6'x2" Mount Pipe	A	From Leg	4.00 0.00 0.00	0.00	172.00
6'x2" Mount Pipe	B	From Leg	4.00 0.00 0.00	0.00	172.00
6'x2" Mount Pipe	C	From Leg	4.00 0.00 0.00	0.00	172.00
***					
Side Arm Mount [SO 701-1]	A	From Leg	0.00 0.00 0.00	0.00	72.00
GPS_A	A	From Leg	3.00 0.00 1.00	0.00	72.00
***					

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

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

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	225.79 - 197.75	Pole	Max Tension	26	0.00	-0.00	0.00
			Max. Compression	26	-26.27	14.44	-9.15
			Max. Mx	20	-11.76	255.55	-5.78
			Max. My	14	-11.78	9.49	-250.72
			Max. Vy	20	-14.74	255.55	-5.78
			Max. Vx	14	14.71	9.49	-250.72
			Max. Torque	24			8.37
L2	197.75 - 162.72	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-56.73	18.37	-11.85
			Max. Mx	20	-29.18	1031.00	-6.96
			Max. My	14	-29.22	11.32	-1022.14
			Max. Vy	20	-29.34	1031.00	-6.96

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vx	14	29.13	11.32	-1022.14
			Max. Torque	24			9.64
L3	162.72 - 120.09	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-74.07	21.21	-14.26
			Max. Mx	20	-42.97	2328.21	-7.79
			Max. My	14	-43.02	12.41	-2306.05
			Max. Vy	20	-33.29	2328.21	-7.79
			Max. Vx	14	32.86	12.41	-2306.05
			Max. Torque	24			9.62
L4	120.09 - 78.99	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-95.30	23.79	-16.63
			Max. Mx	20	-60.44	3738.19	-8.54
			Max. My	14	-60.47	13.33	-3697.28
			Max. Vy	20	-37.15	3738.19	-8.54
			Max. Vx	14	36.68	13.33	-3697.28
			Max. Torque	24			9.59
L5	78.99 - 38.92	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-121.41	26.23	-18.66
			Max. Mx	20	-82.54	5257.94	-9.07
			Max. My	14	-82.56	14.17	-5198.01
			Max. Vy	20	-40.68	5257.94	-9.07
			Max. Vx	14	40.19	14.17	-5198.01
			Max. Torque	24			9.57
L6	38.92 - 0	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-157.04	28.44	-20.73
			Max. Mx	20	-113.61	7279.75	-9.74
			Max. My	14	-113.61	15.02	-7196.78
			Max. Vy	20	-43.96	7279.75	-9.74
			Max. Vx	14	43.49	15.02	-7196.78
			Max. Torque	24			9.48

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	35	157.04	10.94	-6.31
	Max. H_x	20	113.63	43.91	-0.00
	Max. H_z	2	113.63	0.00	43.44
	Max. M_x	2	7177.26	0.00	43.44
	Max. M_z	8	7249.67	-43.91	-0.00
	Max. Torsion	24	9.48	21.74	37.62
	Min. Vert	17	85.22	21.74	-37.62
	Min. H_x	8	113.63	-43.91	-0.00
	Min. H_z	14	113.63	0.00	-43.44
	Min. M_x	14	-7196.78	0.00	-43.44
	Min. M_z	20	-7279.75	43.91	-0.00
	Min. Torsion	12	-9.46	-21.74	-37.62

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	94.69	-0.00	0.00	7.93	12.22	-0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	113.63	-0.00	-43.44	-7177.26	15.03	-7.88
0.9 Dead+1.0 Wind 0 deg -	85.22	-0.00	-43.44	-7065.01	10.93	-7.85

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
No Ice						
1.2 Dead+1.0 Wind 30 deg - No Ice	113.63	21.74	-37.62	-6214.39	-3581.53	-4.16
0.9 Dead+1.0 Wind 30 deg - No Ice	85.22	21.74	-37.62	-6117.52	-3528.12	-4.15
1.2 Dead+1.0 Wind 60 deg - No Ice	113.63	37.66	-21.72	-3583.76	-6214.38	0.66
0.9 Dead+1.0 Wind 60 deg - No Ice	85.22	37.66	-21.72	-3528.95	-6118.87	0.65
1.2 Dead+1.0 Wind 90 deg - No Ice	113.63	43.91	0.00	9.74	-7249.67	5.30
0.9 Dead+1.0 Wind 90 deg - No Ice	85.22	43.91	0.00	7.09	-7137.76	5.27
1.2 Dead+1.0 Wind 120 deg - No Ice	113.63	38.90	22.44	3726.34	-6427.63	8.51
0.9 Dead+1.0 Wind 120 deg - No Ice	85.22	38.90	22.44	3664.43	-6328.98	8.47
1.2 Dead+1.0 Wind 150 deg - No Ice	113.63	21.74	37.62	6233.90	-3581.55	9.46
0.9 Dead+1.0 Wind 150 deg - No Ice	85.22	21.74	37.62	6131.72	-3528.13	9.42
1.2 Dead+1.0 Wind 180 deg - No Ice	113.63	-0.00	43.44	7196.78	15.02	7.87
0.9 Dead+1.0 Wind 180 deg - No Ice	85.22	-0.00	43.44	7079.22	10.92	7.84
1.2 Dead+1.0 Wind 210 deg - No Ice	113.63	-21.74	37.62	6233.91	3611.60	4.18
0.9 Dead+1.0 Wind 210 deg - No Ice	85.22	-21.74	37.62	6131.73	3549.99	4.17
1.2 Dead+1.0 Wind 240 deg - No Ice	113.63	-37.66	21.72	3603.26	6244.48	-0.64
0.9 Dead+1.0 Wind 240 deg - No Ice	85.22	-37.66	21.72	3543.15	6140.76	-0.63
1.2 Dead+1.0 Wind 270 deg - No Ice	113.63	-43.91	0.00	9.73	7279.75	-5.29
0.9 Dead+1.0 Wind 270 deg - No Ice	85.22	-43.91	0.00	7.09	7159.64	-5.26
1.2 Dead+1.0 Wind 300 deg - No Ice	113.63	-38.90	-22.44	-3706.89	6457.67	-8.53
0.9 Dead+1.0 Wind 300 deg - No Ice	85.22	-38.90	-22.44	-3650.27	6350.83	-8.49
1.2 Dead+1.0 Wind 330 deg - No Ice	113.63	-21.74	-37.62	-6214.41	3611.59	-9.48
0.9 Dead+1.0 Wind 330 deg - No Ice	85.22	-21.74	-37.62	-6117.53	3549.98	-9.44
1.2 Dead+1.0 Ice+1.0 Temp	157.04	-0.00	0.00	20.73	28.44	-0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	157.04	-0.00	-12.62	-2113.02	28.68	-3.74
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	157.04	6.32	-10.93	-1827.12	-1039.03	-2.06
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	157.04	10.94	-6.31	-1046.05	-1820.65	0.17
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	157.04	12.64	0.00	20.91	-2106.75	2.35
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	157.04	10.94	6.31	1087.88	-1820.66	3.91
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	157.04	6.32	10.93	1868.97	-1039.05	4.42
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	157.04	-0.00	12.62	2154.87	28.68	3.74
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	157.04	-6.32	10.93	1868.98	1096.41	2.06
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	157.04	-10.94	6.31	1087.90	1878.05	-0.17
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	157.04	-12.64	0.00	20.91	2164.15	-2.36
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	157.04	-10.94	-6.31	-1046.07	1878.04	-3.91
1.2 Dead+1.0 Wind 330	157.04	-6.32	-10.93	-1827.14	1096.40	-4.42

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
deg+1.0 Ice+1.0 Temp						
Dead+Wind 0 deg - Service	94.69	-0.00	-10.95	-1786.85	12.43	-2.00
Dead+Wind 30 deg - Service	94.69	5.48	-9.48	-1546.40	-885.80	-1.06
Dead+Wind 60 deg - Service	94.69	9.49	-5.48	-889.39	-1543.33	0.17
Dead+Wind 90 deg - Service	94.69	11.07	0.00	8.06	-1801.93	1.35
Dead+Wind 120 deg - Service	94.69	9.80	5.66	936.36	-1596.75	2.17
Dead+Wind 150 deg - Service	94.69	5.48	9.48	1562.52	-885.80	2.41
Dead+Wind 180 deg - Service	94.69	-0.00	10.95	1802.97	12.43	2.00
Dead+Wind 210 deg - Service	94.69	-5.48	9.48	1562.52	910.66	1.06
Dead+Wind 240 deg - Service	94.69	-9.49	5.48	905.53	1568.21	-0.17
Dead+Wind 270 deg - Service	94.69	-11.07	0.00	8.06	1826.79	-1.35
Dead+Wind 300 deg - Service	94.69	-9.80	-5.66	-920.24	1621.61	-2.17
Dead+Wind 330 deg - Service	94.69	-5.48	-9.48	-1546.40	910.66	-2.41

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	-94.69	0.00	0.00	94.69	-0.00	0.000%
2	0.00	-113.63	-43.44	0.00	113.63	43.44	0.000%
3	0.00	-85.22	-43.44	0.00	85.22	43.44	0.000%
4	21.74	-113.63	-37.62	-21.74	113.63	37.62	0.000%
5	21.74	-85.22	-37.62	-21.74	85.22	37.62	0.000%
6	37.66	-113.63	-21.72	-37.66	113.63	21.72	0.000%
7	37.66	-85.22	-21.72	-37.66	85.22	21.72	0.000%
8	43.91	-113.63	0.00	-43.91	113.63	-0.00	0.000%
9	43.91	-85.22	0.00	-43.91	85.22	-0.00	0.000%
10	38.90	-113.63	22.44	-38.90	113.63	-22.44	0.000%
11	38.90	-85.22	22.44	-38.90	85.22	-22.44	0.000%
12	21.74	-113.63	37.62	-21.74	113.63	-37.62	0.000%
13	21.74	-85.22	37.62	-21.74	85.22	-37.62	0.000%
14	0.00	-113.63	43.44	0.00	113.63	-43.44	0.000%
15	0.00	-85.22	43.44	0.00	85.22	-43.44	0.000%
16	-21.74	-113.63	37.62	21.74	113.63	-37.62	0.000%
17	-21.74	-85.22	37.62	21.74	85.22	-37.62	0.000%
18	-37.66	-113.63	21.72	37.66	113.63	-21.72	0.000%
19	-37.66	-85.22	21.72	37.66	85.22	-21.72	0.000%
20	-43.91	-113.63	0.00	43.91	113.63	-0.00	0.000%
21	-43.91	-85.22	0.00	43.91	85.22	-0.00	0.000%
22	-38.90	-113.63	-22.44	38.90	113.63	22.44	0.000%
23	-38.90	-85.22	-22.44	38.90	85.22	22.44	0.000%
24	-21.74	-113.63	-37.62	21.74	113.63	37.62	0.000%
25	-21.74	-85.22	-37.62	21.74	85.22	37.62	0.000%
26	0.00	-157.04	0.00	0.00	157.04	-0.00	0.000%
27	0.00	-157.04	-12.62	0.00	157.04	12.62	0.000%
28	6.32	-157.04	-10.93	-6.32	157.04	10.93	0.000%
29	10.94	-157.04	-6.31	-10.94	157.04	6.31	0.000%
30	12.64	-157.04	0.00	-12.64	157.04	-0.00	0.000%
31	10.94	-157.04	6.31	-10.94	157.04	-6.31	0.000%
32	6.32	-157.04	10.93	-6.32	157.04	-10.93	0.000%
33	0.00	-157.04	12.62	0.00	157.04	-12.62	0.000%
34	-6.32	-157.04	10.93	6.32	157.04	-10.93	0.000%
35	-10.94	-157.04	6.31	10.94	157.04	-6.31	0.000%
36	-12.64	-157.04	0.00	12.64	157.04	-0.00	0.000%
37	-10.94	-157.04	-6.31	10.94	157.04	6.31	0.000%
38	-6.32	-157.04	-10.93	6.32	157.04	10.93	0.000%
39	0.00	-94.69	-10.95	0.00	94.69	10.95	0.000%

Load Comb.	Sum of Applied Forces PX K	PY K	PZ K	Sum of Reactions PX K	PY K	PZ K	% Error
40	5.48	-94.69	-9.48	-5.48	94.69	9.48	0.000%
41	9.49	-94.69	-5.48	-9.49	94.69	5.48	0.000%
42	11.07	-94.69	0.00	-11.07	94.69	-0.00	0.000%
43	9.80	-94.69	5.66	-9.80	94.69	-5.66	0.000%
44	5.48	-94.69	9.48	-5.48	94.69	-9.48	0.000%
45	0.00	-94.69	10.95	0.00	94.69	-10.95	0.000%
46	-5.48	-94.69	9.48	5.48	94.69	-9.48	0.000%
47	-9.49	-94.69	5.48	9.49	94.69	-5.48	0.000%
48	-11.07	-94.69	0.00	11.07	94.69	-0.00	0.000%
49	-9.80	-94.69	-5.66	9.80	94.69	5.66	0.000%
50	-5.48	-94.69	-9.48	5.48	94.69	9.48	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000390
2	Yes	5	0.00000001	0.00079201
3	Yes	5	0.00000001	0.00039337
4	Yes	6	0.00000001	0.00037726
5	Yes	6	0.00000001	0.00013030
6	Yes	6	0.00000001	0.00038897
7	Yes	6	0.00000001	0.00013481
8	Yes	5	0.00000001	0.00055195
9	Yes	5	0.00000001	0.00027325
10	Yes	6	0.00000001	0.00045824
11	Yes	6	0.00000001	0.00015849
12	Yes	6	0.00000001	0.00036485
13	Yes	6	0.00000001	0.00012501
14	Yes	5	0.00000001	0.00079464
15	Yes	5	0.00000001	0.00039392
16	Yes	6	0.00000001	0.00041932
17	Yes	6	0.00000001	0.00014477
18	Yes	6	0.00000001	0.00040622
19	Yes	6	0.00000001	0.00013962
20	Yes	5	0.00000001	0.00055471
21	Yes	5	0.00000001	0.00027376
22	Yes	6	0.00000001	0.00039425
23	Yes	6	0.00000001	0.00013350
24	Yes	6	0.00000001	0.00043887
25	Yes	6	0.00000001	0.00015317
26	Yes	4	0.00000001	0.00030886
27	Yes	6	0.00000001	0.00018710
28	Yes	6	0.00000001	0.00022523
29	Yes	6	0.00000001	0.00022830
30	Yes	6	0.00000001	0.00017879
31	Yes	6	0.00000001	0.00025720
32	Yes	6	0.00000001	0.00023546
33	Yes	6	0.00000001	0.00019434
34	Yes	6	0.00000001	0.00026428
35	Yes	6	0.00000001	0.00025665
36	Yes	6	0.00000001	0.00018903
37	Yes	6	0.00000001	0.00023968
38	Yes	6	0.00000001	0.00026586
39	Yes	4	0.00000001	0.00068558
40	Yes	5	0.00000001	0.00007460
41	Yes	5	0.00000001	0.00008042
42	Yes	4	0.00000001	0.00049509
43	Yes	5	0.00000001	0.00012176
44	Yes	5	0.00000001	0.00007582
45	Yes	4	0.00000001	0.00070146
46	Yes	5	0.00000001	0.00010491
47	Yes	5	0.00000001	0.00009530
48	Yes	4	0.00000001	0.00051379
49	Yes	5	0.00000001	0.00008408

50	Yes	5	0.00000001	0.00011966

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	225.79 - 197.75	39.0896	49	1.77	0.02
L2	201.83 - 162.72	30.5617	49	1.59	0.01
L3	167.86 - 120.09	20.2016	49	1.29	0.01
L4	126.48 - 78.99	10.7567	49	0.87	0.00
L5	86.57 - 38.92	4.8204	49	0.53	0.00
L6	47.64 - 0	1.4536	49	0.28	0.00

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
228.00	(2) MX06FRO660-03 w/ Mount Pipe	49	39.0896	1.77	0.02	26088
226.00	Lightning Rod 5/8"x5'	49	39.0896	1.77	0.02	26088
218.00	MX08FRO665-21 w/ Mount Pipe	49	36.2601	1.71	0.02	16745
205.00	VV-65A-R1_TMO w/ Mount Pipe	49	31.6481	1.61	0.01	6287
196.00	800 10121 w/ Mount Pipe	49	28.6166	1.54	0.01	5528
185.00	APXV18-206517S-C w/ Mount Pipe	49	25.1353	1.45	0.01	5696
173.00	800 EXTERNAL NOTCH FILTER	49	21.6185	1.34	0.01	5891
172.00	APXVTM14-C-120 w/ Mount Pipe	49	21.3386	1.33	0.01	5908
113.00	Beacon side markers	49	8.4330	0.75	0.00	6471
72.00	Side Arm Mount [SO 701-1]	49	3.2898	0.43	0.00	7945

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	225.79 - 197.75	155.4220	22	6.97	0.08
L2	201.83 - 162.72	121.7866	22	6.32	0.05
L3	167.86 - 120.09	80.6334	22	5.14	0.02
L4	126.48 - 78.99	42.9741	22	3.48	0.01
L5	86.57 - 38.92	19.2621	22	2.14	0.00
L6	47.64 - 0	5.8078	22	1.10	0.00

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
228.00	(2) MX06FRO660-03 w/ Mount Pipe	22	155.4220	6.97	0.08	7577
226.00	Lightning Rod 5/8"x5'	22	155.4220	6.97	0.08	7577
218.00	MX08FRO665-21 w/ Mount Pipe	22	144.2747	6.77	0.07	4863
205.00	VV-65A-R1_TMO w/ Mount Pipe	22	126.0806	6.41	0.05	1823
196.00	800 10121 w/ Mount Pipe	22	114.0862	6.14	0.04	1570

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
185.00	APXV18-206517S-C w/ Mount Pipe	22	100.2700	5.77	0.03	1555
173.00	800 EXTERNAL NOTCH FILTER	22	86.2772	5.33	0.02	1525
172.00	APXVTM14-C-120 w/ Mount Pipe	22	85.1627	5.30	0.02	1523
113.00	Beacon side markers	22	33.6964	2.98	0.01	1632
72.00	Side Arm Mount [SO 701-1]	22	13.1455	1.73	0.00	1991

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	225.79 - 197.75 (1)	TP28.6563x21.5x0.1875	28.04	0.00	0.0	16.3228	-11.77	954.88	0.012
L2	197.75 - 162.72 (2)	TP37.0938x27.24x0.375	39.11	0.00	0.0	42.1631	-29.08	2466.54	0.012
L3	162.72 - 120.09 (3)	TP47.1563x35.0487x0.4375	47.77	0.00	0.0	62.6258	-42.88	3663.61	0.012
L4	120.09 - 78.99 (4)	TP56.6563x44.6617x0.5	47.49	0.00	0.0	86.0817	-60.37	5035.78	0.012
L5	78.99 - 38.92 (5)	TP65.7813x53.7418x0.5625	47.65	0.00	0.0	112.5060	-82.50	6581.62	0.013
L6	38.92 - 0 (6)	TP74.5x62.453x0.5625	47.64	0.00	0.0	132.0060	-113.61	7722.36	0.015

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	225.79 - 197.75 (1)	TP28.6563x21.5x0.1875	256.96	596.72	0.431	0.00	596.72	0.000
L2	197.75 - 162.72 (2)	TP37.0938x27.24x0.375	1043.45	2275.65	0.459	0.00	2275.65	0.000
L3	162.72 - 120.09 (3)	TP47.1563x35.0487x0.4375	2369.72	4220.43	0.561	0.00	4220.43	0.000
L4	120.09 - 78.99 (4)	TP56.6563x44.6617x0.5	3816.48	6884.04	0.554	0.00	6884.04	0.000
L5	78.99 - 38.92 (5)	TP65.7813x53.7418x0.5625	5376.29	10359.42	0.519	0.00	10359.42	0.000
L6	38.92 - 0 (6)	TP74.5x62.453x0.5625	7445.97	13554.17	0.549	0.00	13554.17	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 $\frac{T_u}{\phi T_n}$
L1	225.79 - 197.75 (1)	TP28.6563x21.5x0.1875	14.73	286.46	0.051	0.71	688.08	0.001
L2	197.75 - 162.72 (2)	TP37.0938x27.24x0.375	29.91	739.96	0.040	8.74	2295.53	0.004

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 $\frac{T_u}{\phi T_n}$
L3	162.72 - 120.09 (3)	TP47.1563x35.0487x0.4375	34.13	1099.08	0.031	8.71	4340.89	0.002
L4	120.09 - 78.99 (4)	TP56.6563x44.6617x0.5	38.17	1510.73	0.025	8.69	7176.32	0.001
L5	78.99 - 38.92 (5)	TP65.7813x53.7418x0.5625	41.70	1974.49	0.021	8.53	10896.33	0.001
L6	38.92 - 0 (6)	TP74.5x62.453x0.5625	44.95	2316.71	0.019	8.53	15000.83	0.001

Pole Interaction Design Data

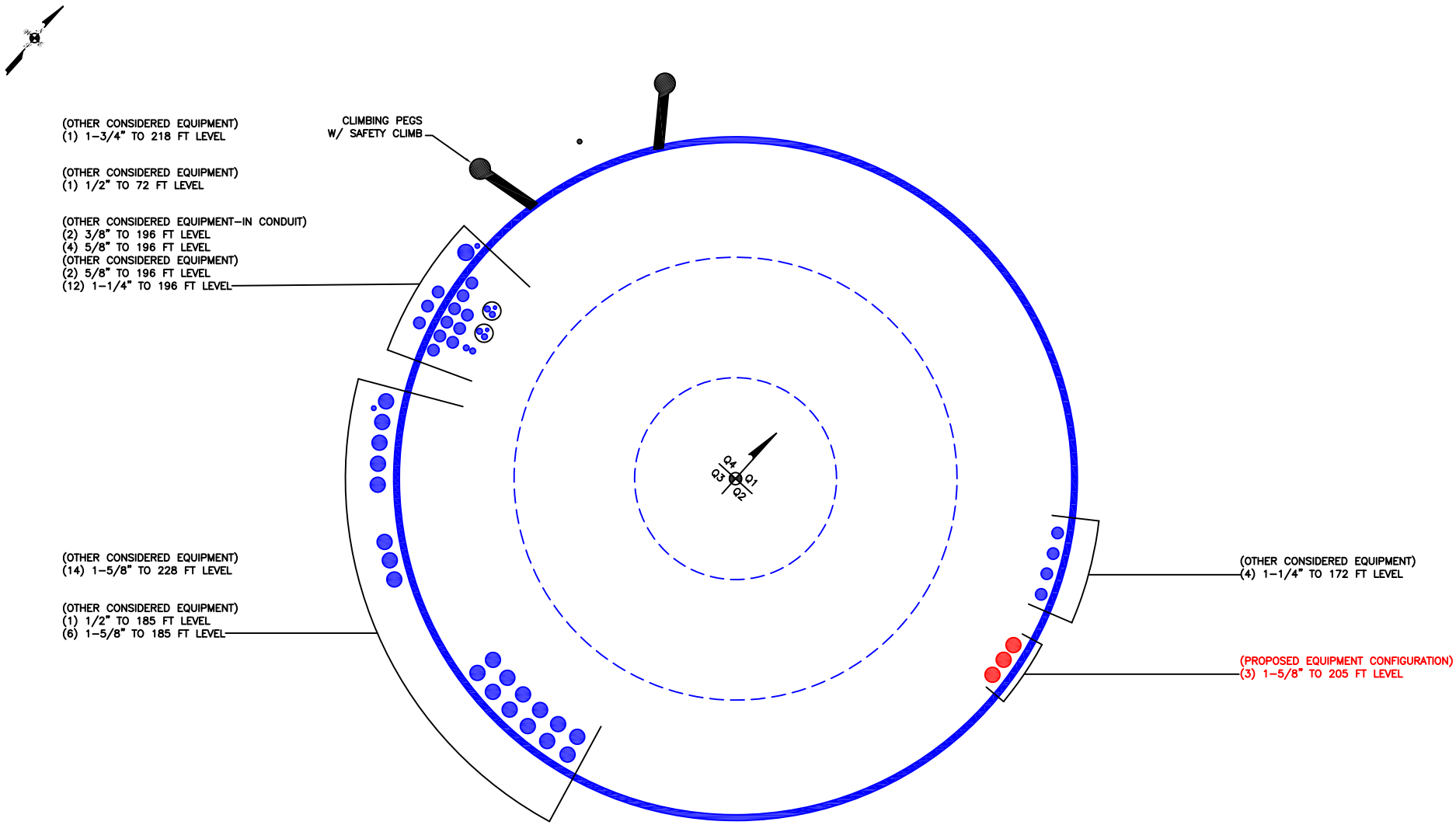
Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	225.79 - 197.75 (1)	0.012	0.431	0.000	0.051	0.001	0.446	1.050	4.8.2
L2	197.75 - 162.72 (2)	0.012	0.459	0.000	0.040	0.004	0.472	1.050	4.8.2
L3	162.72 - 120.09 (3)	0.012	0.561	0.000	0.031	0.002	0.574	1.050	4.8.2
L4	120.09 - 78.99 (4)	0.012	0.554	0.000	0.025	0.001	0.567	1.050	4.8.2
L5	78.99 - 38.92 (5)	0.013	0.519	0.000	0.021	0.001	0.532	1.050	4.8.2
L6	38.92 - 0 (6)	0.015	0.549	0.000	0.019	0.001	0.564	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	225.79 - 197.75	Pole	TP28.6563x21.5x0.1875	1	-11.77	1002.63	42.4	Pass
L2	197.75 - 162.72	Pole	TP37.0938x27.24x0.375	2	-29.08	2589.87	45.0	Pass
L3	162.72 - 120.09	Pole	TP47.1563x35.0487x0.4375	3	-42.88	3846.79	54.7	Pass
L4	120.09 - 78.99	Pole	TP56.6563x44.6617x0.5	4	-60.37	5287.57	54.0	Pass
L5	78.99 - 38.92	Pole	TP65.7813x53.7418x0.5625	5	-82.50	6910.70	50.7	Pass
L6	38.92 - 0	Pole	TP74.5x62.453x0.5625	6	-113.61	8108.48	53.8	Pass
							Summary	
						Pole (L3)	54.7	Pass
						RATING =	**54.7**	**Pass**

APPENDIX B

BASE LEVEL DRAWING


(OTHER CONSIDERED EQUIPMENT)
(1) 1-3/4" TO 218 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(1) 1/2" TO 72 FT LEVEL
(OTHER CONSIDERED EQUIPMENT-IN CONDUIT)
(2) 3/8" TO 196 FT LEVEL
(4) 5/8" TO 196 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(2) 5/8" TO 196 FT LEVEL
(12) 1-1/4" TO 196 FT LEVEL
CLIMBING PEGS
W/ SAFETY CLIMB
(OTHER CONSIDERED EQUIPMENT)
(14) 1-5/8" TO 228 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(1) 1/2" TO 185 FT LEVEL
(6) 1-5/8" TO 185 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(4) 1-1/4" TO 172 FT LEVEL
(PROPOSED EQUIPMENT CONFIGURATION)
(3) 1-5/8" TO 205 FT LEVEL
Q1
Q2
Q3
Q4

APPENDIX C

ADDITIONAL CALCULATIONS

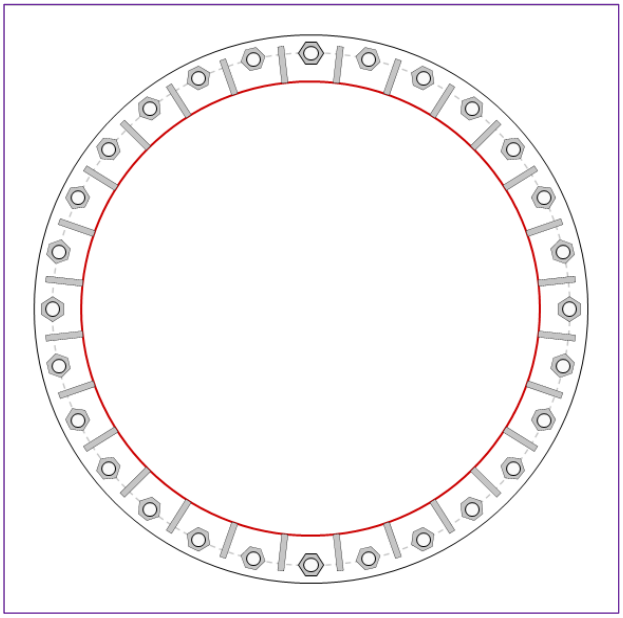
Monopole Base Plate Connection

Site Info	
BU #	806358
Site Name	NHV 109 943107
Order #	524459 Rev. 4

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
l_{ar} (in)	1.5625

Applied Loads	
Moment (kip-ft)	7445.97
Axial Force (kips)	113.61
Shear Force (kips)	44.95

**TIA-222-H Section 15.5 Applied*



Connection Properties

Anchor Rod Data

(28) 2-1/4" ø bolts (A615-75 N; Fy=75 ksi, Fu=100 ksi) on 84" BC

Base Plate Data

90" OD x 2.5" Plate (A572-50; Fy=50 ksi, Fu=65 ksi)

Stiffener Data

(28) 18"H x 6"W x 1"T, Notch: 1"
plate: Fy= 50 ksi ; weld: Fy= 70 ksi
horiz. weld: 0.5" groove, 45° dbl bevel, 0.5" fillet
vert. weld: 0.5" fillet

Pole Data

74.5" x 0.5625" 18-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

Analysis Results

Anchor Rod Summary		*(units of kips, kip-in)*
Pu_t = 147.86	ϕPn_t = 243.75	**Stress Rating**
Vu = 1.61	ϕVn = 149.1	**57.8%**
Mu = n/a	ϕMn = n/a	Pass

Base Plate Summary		
Max Stress (ksi):	20.49	(Roark's Flexural)
Allowable Stress (ksi):	45	
Stress Rating:	**43.4%**	Pass

Stiffener Summary		
Horizontal Weld:	**40.6%**	Pass
Vertical Weld:	**25.8%**	Pass
Plate Flexure+Shear:	**9.1%**	Pass
Plate Tension+Shear:	**40.9%**	Pass
Plate Compression:	**40.2%**	Pass
Pole Summary		
Punching Shear:	**6.3%**	Pass

Monopole Base Reaction Comparison Test

BU # :	806358
Site Name:	NHV 109 943107
Order Number:	524459 Rev. 4
Design TIA:	TIA-222-F
Current TIA:	TIA-222-H
Component:	Monopole Base
Reference Doc ID:	821496

TIA-222-F Compared To TIA-222-H

MONOPOLE BASE FOUNDATION REACTION COMPARISON

REACTIONS	DESIGN REACTIONS	*MODIFIED DESIGN REACTIONS	CURRENT REACTIONS	% CAPACITY
MOMENT (kip-ft)	8439.1	11392.8	7446.0	62.2%
SHEAR (kips)	50.8	68.6	45.0	62.5%

Deisgn loads from: CCIsites Doc #821496

Although the shear capacity is at 62.5%, the moment reaction is the governing criteria for a monopole drilled pier foundation. Therefore, the overall capacity for this foundation is 62.2%.

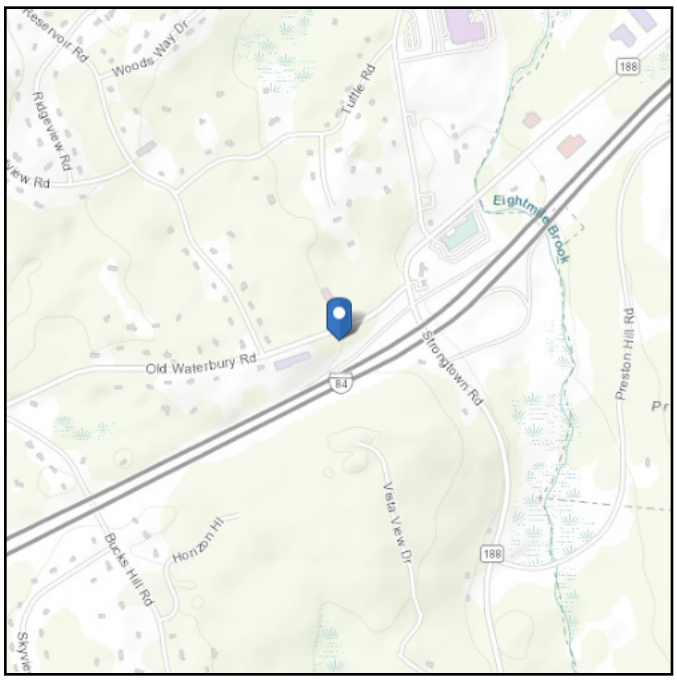
*Design loads were multiplied by 1.35 for comparison as allowed by TIA-222-H, Section 15.6.

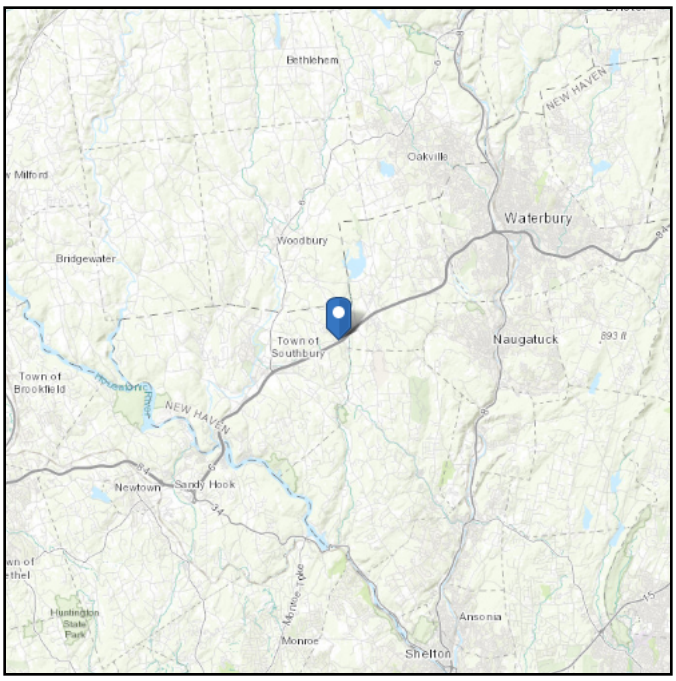
ASCE 7 Hazards Report

Address:
No Address at This Location

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

Elevation: 666.03 ft (NAVD 88)
Latitude: 41.493589
Longitude: -73.165272





Wind

Results:

Wind Speed	116 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: Fri Jan 14 2022

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

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

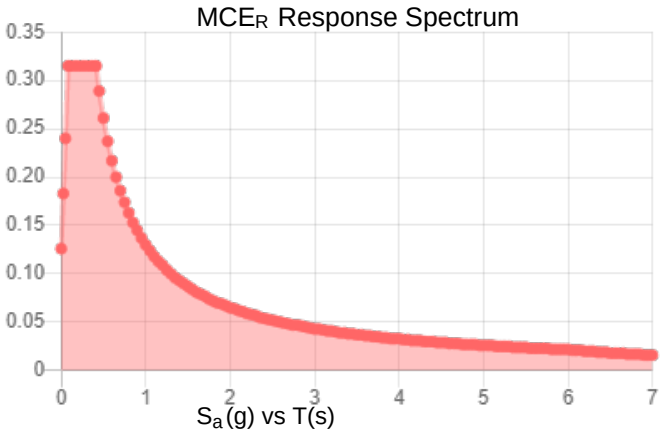
Seismic

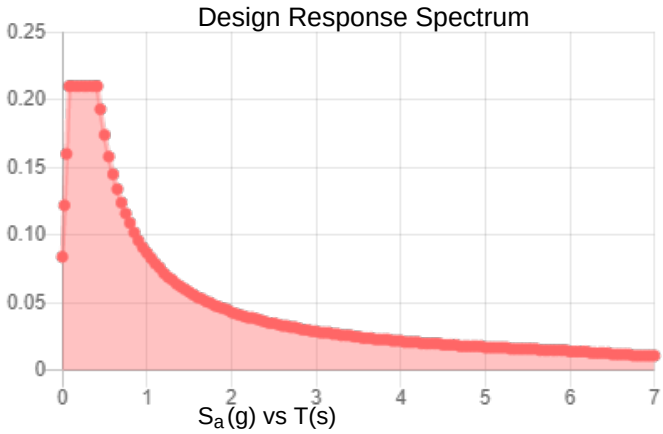
Site Soil Class: D - Default (see Section 11.4.3)

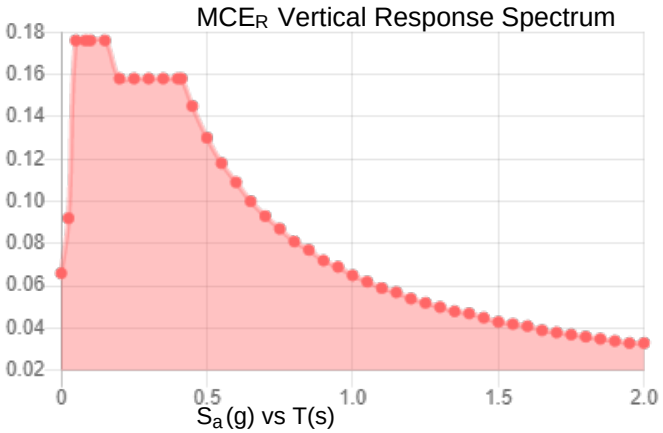
Results:

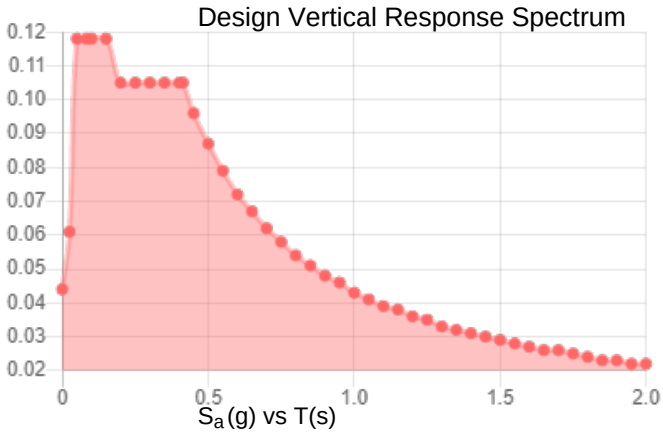
S_S :	0.197	S_{D1} :	0.087
S_1 :	0.054	T_L :	6
F_a :	1.6	PGA :	0.109
F_v :	2.4	PGA_M :	0.173
S_{MS} :	0.315	F_{PGA} :	1.581
S_{M1} :	0.13	I_e :	1
S_{DS} :	0.21	C_v :	0.7

Seismic Design Category B









Data Accessed: **Fri Jan 14 2022**

Date Source:

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

Ice

Results:

Ice Thickness:	1.00 in.
Concurrent Temperature:	15 F
Gust Speed	50 mph
Data Source:	Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8
Date Accessed:	Fri Jan 14 2022

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

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

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: CT11127A

Middlebury/ I-84 X16
1432 Old Waterbury Road
Southbury, Connecticut 06488

June 2, 2022

EBI Project Number: 6222003670

Site Compliance Summary	
Compliance Status:	**COMPLIANT**
Site total MPE% of FCC general population allowable limit:	**11.07%**

June 2, 2022

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

Emissions Analysis for Site: CT11127A - Middlebury/ I-84 X16

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **1432 Old Waterbury Road** in **Southbury, 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 1432 Old Waterbury Road in Southbury, 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 power density calculations, the broadcast footprint of the AIR6449 antenna has been considered. Due to the beamforming nature of this antenna, the actual beam locations vary depending on demand and are narrow in nature. Using the broadcast footprint accounts for the potential location of beams at any given time.

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

1) 2 LTE channels (600 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.

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) 2 LTE channels (700 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.

4) 4 GSM channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.

5) 2 LTE channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.

6) 2 LTE channels (AWS Band – 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 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 Commscope VV-65A-R1 for the 1900 MHz / 1900 MHz / 2100 MHz channel(s), the RFS APXVAALL24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz channel(s), the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz channel(s) in Sector A, the Commscope VV-65A-R1 for the 1900 MHz / 1900 MHz / 2100 MHz channel(s), the RFS APXVAALL24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz channel(s), the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz channel(s) in Sector B, the Commscope VV-65A-R1 for the 1900 MHz / 1900 MHz / 2100 MHz channel(s), the RFS APXVAALL24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz channel(s), the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz / 2500 MHz / 2500 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 207 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:	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):	207 feet	Height (AGL):	207 feet	Height (AGL):	207 feet
Channel Count:	8	Channel Count:	8	Channel Count:	8
Total TX Power (W):	360.00 Watts	Total TX Power (W):	360.00 Watts	Total TX Power (W):	360.00 Watts
ERP (W):	13,446.73	ERP (W):	13,446.73	ERP (W):	13,446.73
Antenna A1 MPE %:	**1.20%**	Antenna B1 MPE %:	**1.20%**	Antenna C1 MPE %:	**1.20%**
Antenna #:	**2**	Antenna #:	**2**	Antenna #:	**2**
Make / Model:	RFS APXVAALL24_43-U-NA20	Make / Model:	RFS APXVAALL24_43-U-NA20	Make / Model:	RFS APXVAALL24_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 / 13.65 dBd	Gain:	12.95 dBd / 12.95 dBd / 13.65 dBd	Gain:	12.95 dBd / 12.95 dBd / 13.65 dBd
Height (AGL):	207 feet	Height (AGL):	207 feet	Height (AGL):	207 feet
Channel Count:	5	Channel Count:	5	Channel Count:	5
Total TX Power (W):	200.00 Watts	Total TX Power (W):	200.00 Watts	Total TX Power (W):	200.00 Watts
ERP (W):	4,151.83	ERP (W):	4,151.83	ERP (W):	4,151.83
Antenna A2 MPE %:	**0.88%**	Antenna B2 MPE %:	**0.88%**	Antenna C2 MPE %:	**0.88%**
Antenna #:	**3**	Antenna #:	**3**	Antenna #:	**3**
Make / Model:	Ericsson AIR 6449	Make / Model:	Ericsson AIR 6449	Make / Model:	Ericsson AIR 6449
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:	22.35 dBd / 17.3 dBd / 22.35 dBd / 17.3 dBd	Gain:	22.35 dBd / 17.3 dBd / 22.35 dBd / 17.3 dBd	Gain:	22.35 dBd / 17.3 dBd / 22.35 dBd / 17.3 dBd
Height (AGL):	207 feet	Height (AGL):	207 feet	Height (AGL):	207 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):	34,144.54	ERP (W):	34,144.54	ERP (W):	34,144.54
Antenna A3 MPE %:	**3.04%**	Antenna B3 MPE %:	**3.04%**	Antenna C3 MPE %:	**3.04%**

Site Composite MPE %	
Carrier	MPE %
T-Mobile (Max at Sector A):	5.11%
Dish	0.35%
AT&T	2.56%
Metro PCS	0.27%
Sprint	1.86%
Verizon	0.92%
Site Total MPE % :	11.07%

T-Mobile MPE % Per Sector	
T-Mobile Sector A Total:	5.11%
T-Mobile Sector B Total:	5.11%
T-Mobile Sector C Total:	5.11%
Site Total MPE % :	11.07%

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 1900 MHz GSM	4	1076.77	207.0	3.83	1900 MHz GSM	1000	0.38%
T-Mobile 1900 MHz LTE	2	2153.53	207.0	3.83	1900 MHz LTE	1000	0.38%
T-Mobile 2100 MHz LTE	2	2416.30	207.0	4.30	2100 MHz LTE	1000	0.43%
T-Mobile 600 MHz LTE	2	591.73	207.0	1.05	600 MHz LTE	400	0.26%
T-Mobile 600 MHz NR	1	1577.94	207.0	1.40	600 MHz NR	400	0.35%
T-Mobile 700 MHz LTE	2	695.22	207.0	1.24	700 MHz LTE	467	0.26%
T-Mobile 2500 MHz LTE 1C & 2C Traffic	1	10307.45	207.0	9.17	2500 MHz LTE 1C & 2C Traffic	1000	0.92%
T-Mobile 2500 MHz LTE 1C & 2C Broadcast	1	1074.06	207.0	0.96	2500 MHz LTE 1C & 2C Broadcast	1000	0.10%
T-Mobile 2500 MHz NR Traffic	1	20614.90	207.0	18.34	2500 MHz NR Traffic	1000	1.83%
T-Mobile 2500 MHz NR Broadcast	1	2148.13	207.0	1.91	2500 MHz NR Broadcast	1000	0.19%
						Total:	**5.11%**

• 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:	5.11%
Sector B:	5.11%
Sector C:	5.11%
T-Mobile Maximum MPE % (Sector A):	5.11%
Site Total:	11.07%
Site Compliance Status:	**COMPLIANT**

The anticipated composite MPE value for this site assuming all carriers present is **11.07%** 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: CT11127A
T-MOBILE SITE NAME: MIDDLEBURY/ I-84 X16
SITE TYPE: MONOPOLE
TOWER HEIGHT: 226'-0"

BUSINESS UNIT #: 806358
SITE ADDRESS: 1432 OLD WATERBURY RD, SOUTHBURY, CT 06488
COUNTY: NEW HAVEN
JURISDICTION: TOWN OF SOUTHBURY

T-MOBILE ANCHOR SITE CONFIGURATION: 67E5A998E ODE+6160

SITE INFORMATION

CROWN CASTLE USA INC. SITE NAME:	NHV 109 943107
SITE ADDRESS:	1432 OLD WATERBURY RD SOUTHBURY, CT 06488
COUNTY:	NEW HAVEN
MAP/PARCEL #:	46-8-10A
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41.493556°
LONGITUDE:	-73.165238°
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	660 FT
CURRENT ZONING:	M-2
JURISDICTION:	TOWN OF SOUTHBURY
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	CROWN ATLANTIC CO LLC 4017 WASHINGTON RD P M BOX 353 MCMURRAY, PA 15317
TOWER OWNER:	CROWN CASTLE USA 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	T-MOBILE 35 GRIFFIN ROAD BLOOMFIELD, CT 06002
ELECTRIC PROVIDER:	NORTHEAST UTILITIES (800) 286-5000
TELCO PROVIDER:	LIGHTOWER (855) 91-FIBER

PROJECT TEAM

A&E FIRM:	B+T GROUP 1717 S. BOULDER AVE. TULSA, OK 74119 MARVIN PHILLIPS MARVIN.PHILLIPS@BTGRP.COM
CROWN CASTLE USA INC. DISTRICT CONTACTS:	1500 CORPORATE DRIVE CANONSBURG, PA 15317 JOSEPH CLARK - PROJECT MANAGER JOSEPH.CLARK@CROWNCASTLE.COM JASON D'AMICO - CONSTRUCTION MANAGER JASON.DAMICO@CROWNCASTLE.COM

DRAWING INDEX

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1.1	OVERALL SITE PLAN
C-1.2	SITE PLAN & ENLARGED SITE PLAN
C-2	FINAL ELEVATION & ANTENNA PLANS
C-3	ANTENNA & CABLE SCHEDULE
C-4	PLUMBING DIAGRAM
C-5	EQUIPMENT SPECS
C-6	EQUIPMENT SPECS
E-1	AC PANEL SCHEDULES & ONE LINE DIAGRAM
G-1	ANTENNA GROUNDING DIAGRAM
G-2	GROUNDING DETAILS
G-3	GROUNDING DETAILS

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 24X36. 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

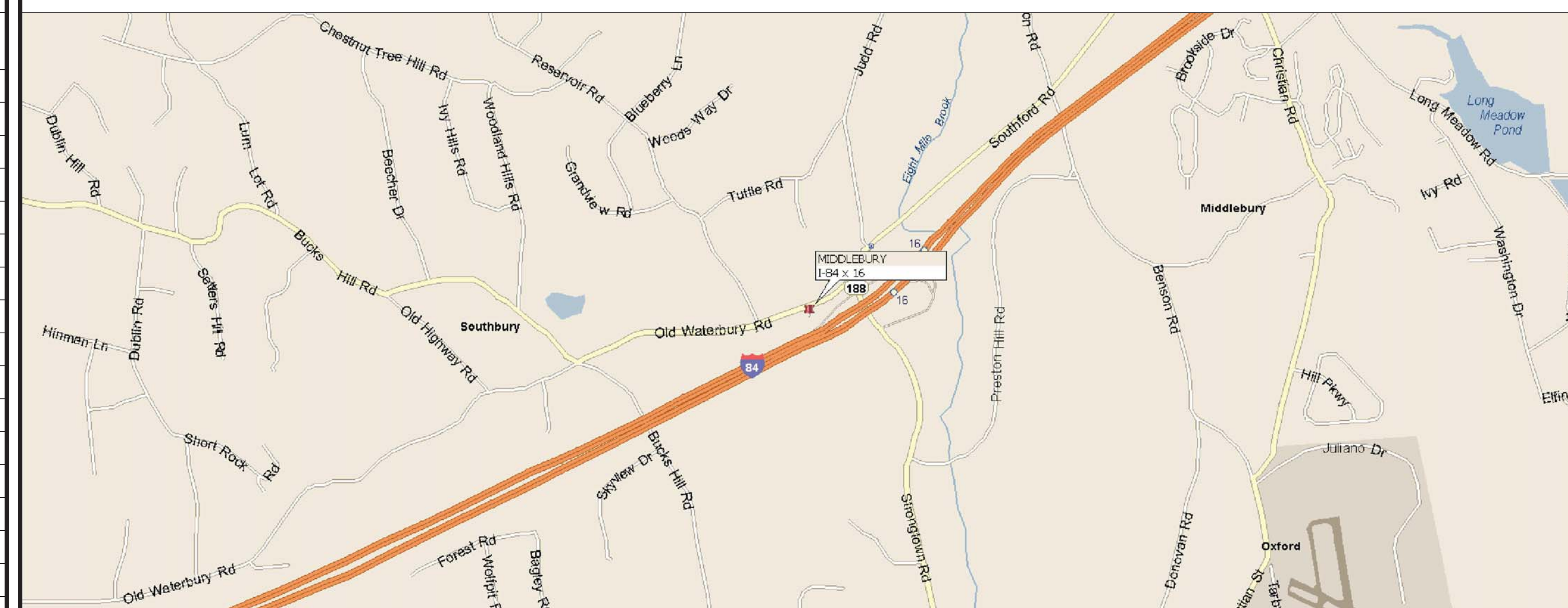
THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.

TOWER SCOPE OF WORK:
- REMOVE (6) ANTENNAS
- REMOVE (3) BIAS Ts
- REMOVE (3) TMAs
- INSTALL (9) ANTENNAS
- INSTALL (6) RRHs
- INSTALL (3) 1-5/8" HYBRID CABLES
- INSTALL MOUNT MODIFICATIONS PER MOUNT ANALYSIS BY POD, DATED 4/8/22

GROUND SCOPE OF WORK:
- REMOVE (12) CABINET RADIOS
- INSTALL (1) 6160 CABINET
- INSTALL (1) B160 BATTERY CABINET
- INSTALL (2) BB 6648
- INSTALL (1) IXRe ROUTER
- UPGRADE CABINET BREAKER TO 150A
- UPGRADE BREAKER PANEL FROM 100A TO 200A
- INSTALL (1) PSU 4813
- INSTALL (1) ATS ON UTILITY FRAME

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	2018 CT STATE BUILDING CODE
ELECTRICAL	2017 NEC

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS:	CROWN CASTLE
DATED:	4/26/22
MOUNT MODIFICATION:	POWER OF DESIGN
DATED:	4/8/22
RFDS REVISION:	6
DATED:	3/3/22
ORDER ID:	524459
REVISION:	4

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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
35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

CROWN CASTLE
1500 CORPORATE DRIVE
CANONSBURG, PA 15317

B+T GRP
1717 S. BOULDER
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
www.btgrp.com

T-MOBILE SITE NUMBER:
CT11127A

BU #: **806358**
NHV 109 943107

1432 OLD WATERBURY RD
SOUTHBURY, CT 06488

EXISTING
226'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
2	8/31/20	MLC	CONSTRUCTION	RMC
3	10/1/20	MLC	CONSTRUCTION	MTJ
4	4/20/22	ANP	CONSTRUCTION	LR
5	5/3/22	ANP	CONSTRUCTION	LR
6	5/9/22	ANP	CONSTRUCTION	LR

STATE OF CONNECTICUT
No. 23824
LICENSED
PROFESSIONAL ENGINEER
5/9/22

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/23

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: T-1
REVISION: 6

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" 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

T-Mobile
35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

CROWN CASTLE
1500 CORPORATE DRIVE
CANONSBURG, PA 15317

B+T GRP
1717 S. BOULDER
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
www.btgrp.com

T-MOBILE SITE NUMBER:
CT11127A

BU #: **806358**
NHV 109 943107

1432 OLD WATERBURY RD
SOUTHBURY, CT 06488

EXISTING
226'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
2	8/31/20	MLC	CONSTRUCTION	RMC
3	10/1/20	MLC	CONSTRUCTION	MTJ
4	4/20/22	ANP	CONSTRUCTION	LR
5	5/3/22	ANP	CONSTRUCTION	LR
6	5/9/22	ANP	CONSTRUCTION	LR

No. 23924
5/9/22

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/23

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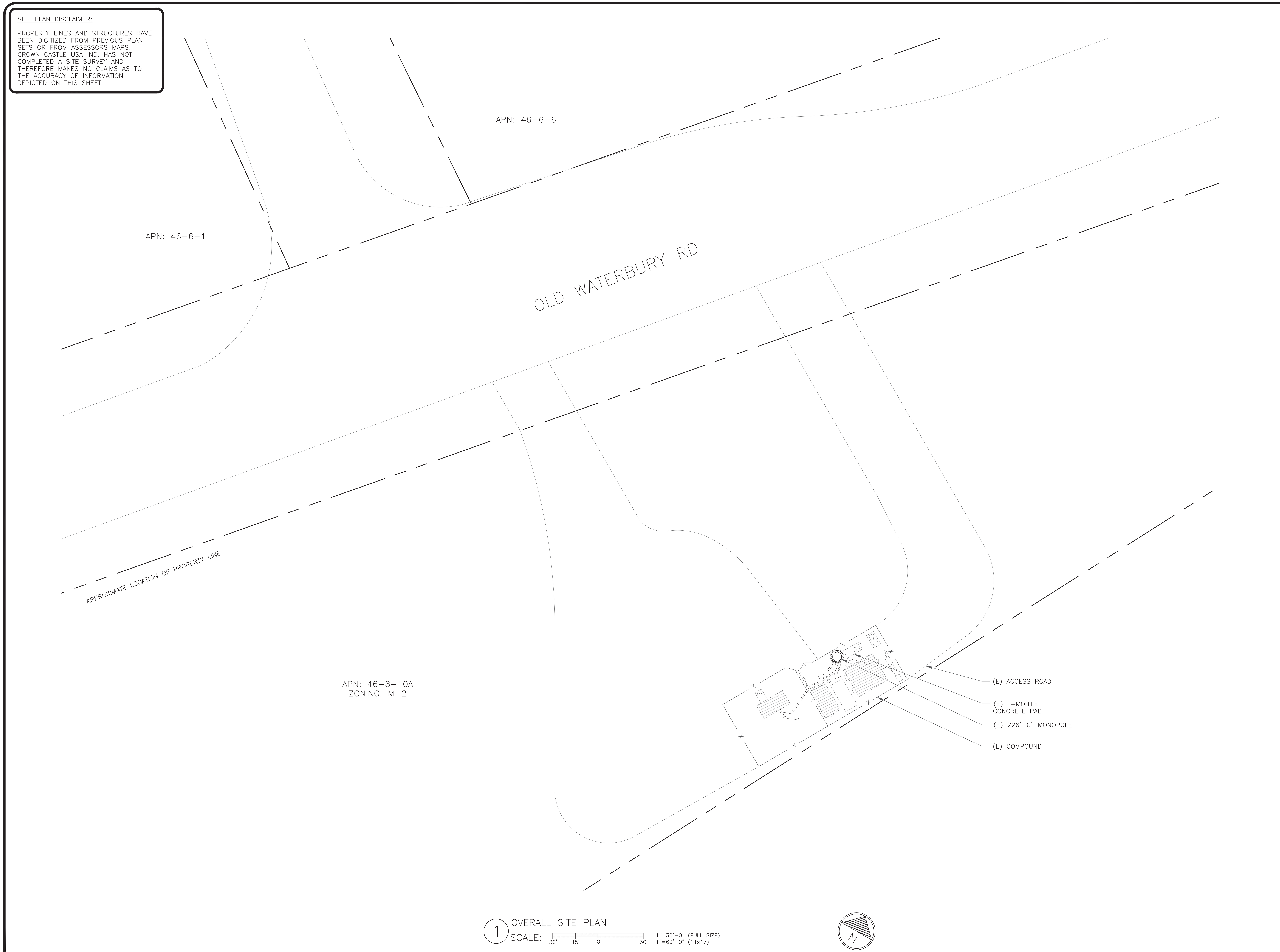
SHEET NUMBER: T-2
REVISION: 6



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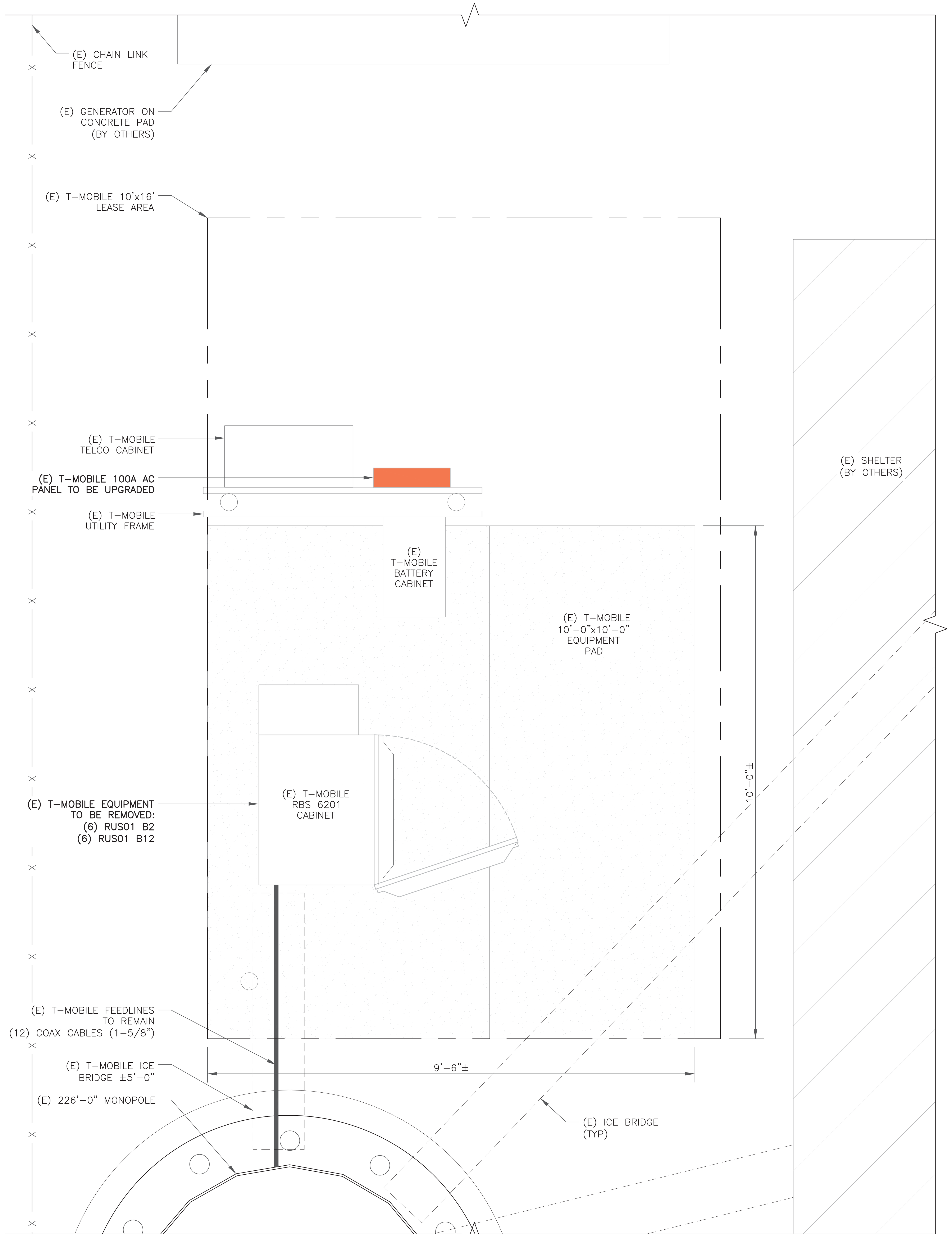
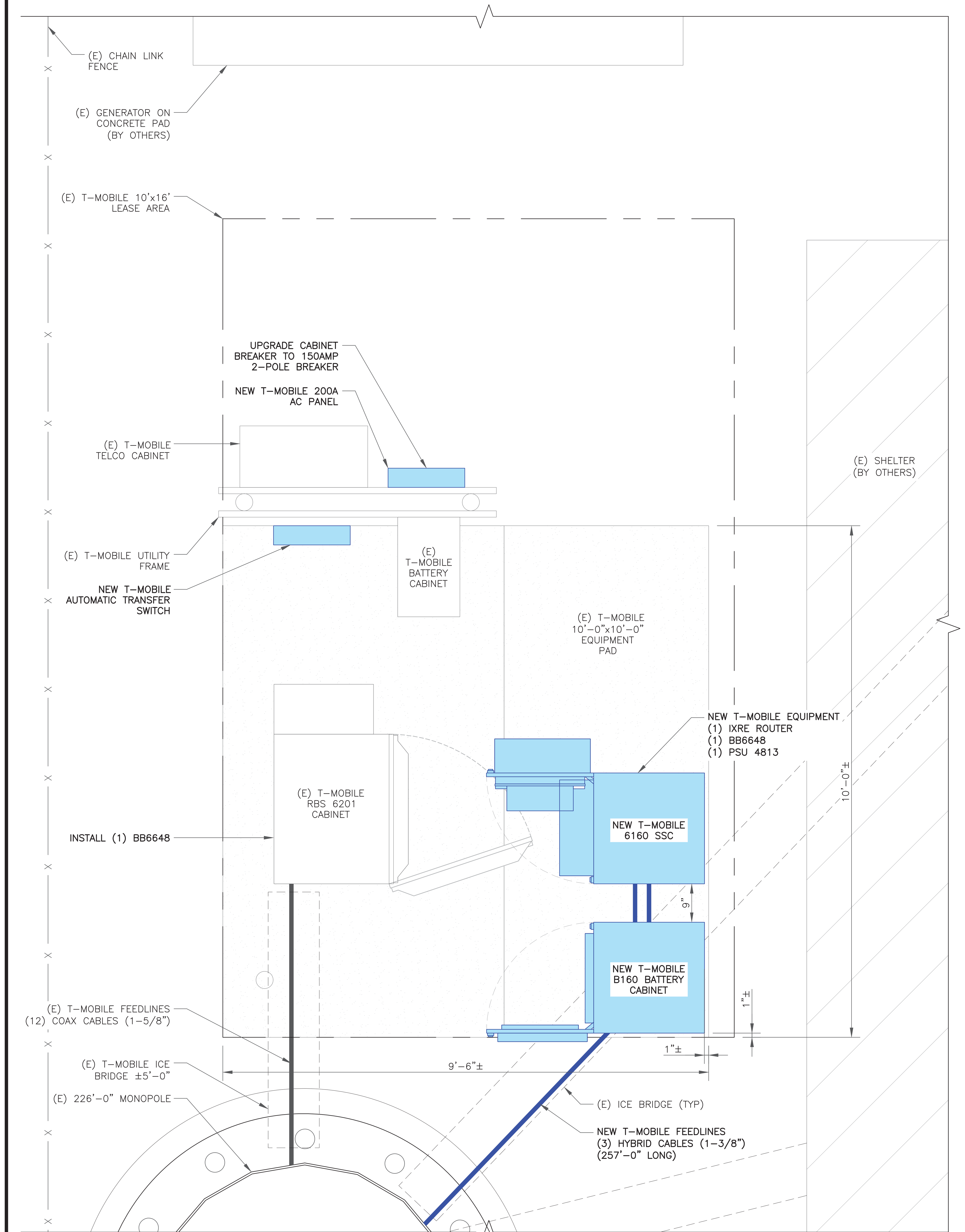
SHEET NUMBER: C-1.1

REVISION: 6



1 EXISTING SITE PLAN

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



2 FINAL SITE PLAN

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

T · · Mobile · · ·

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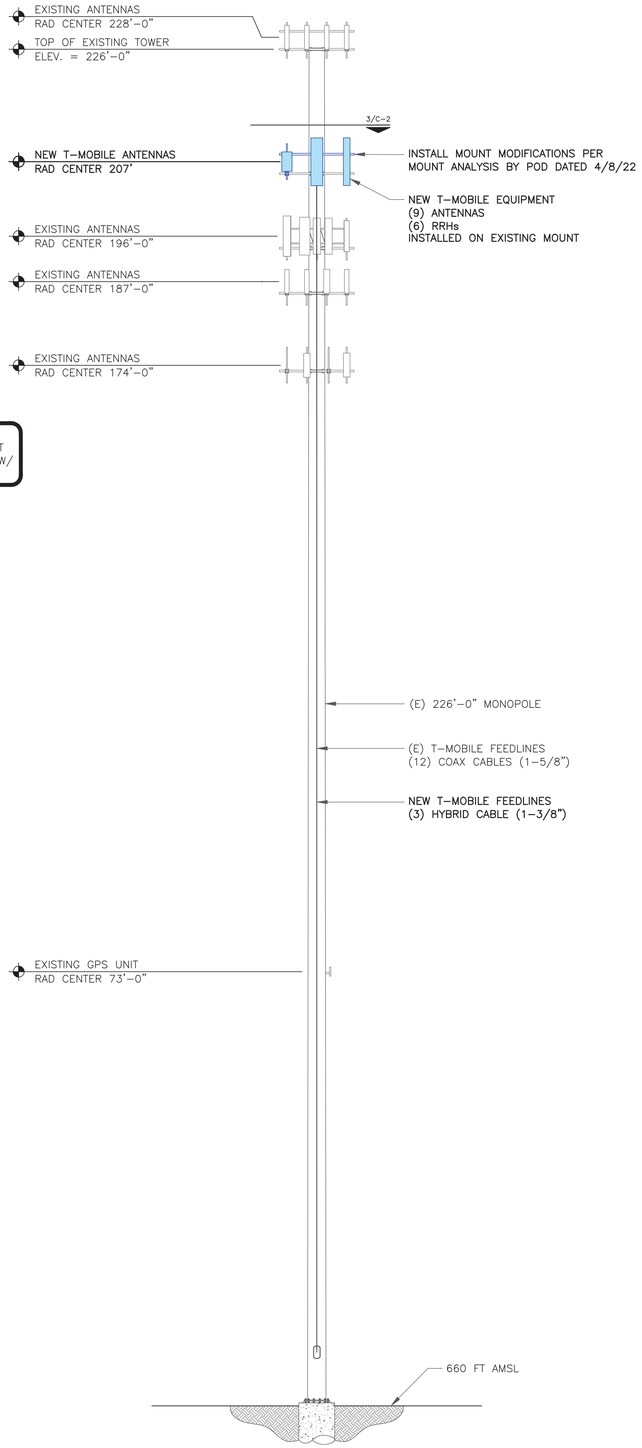
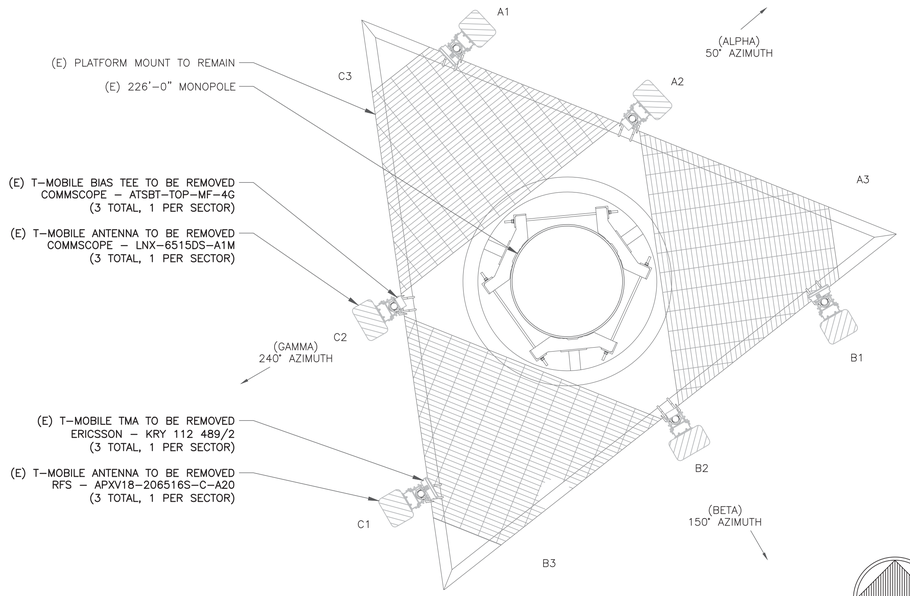
SHEET NUMBER: C-1.2

REVISION: 6



1 FINAL ELEVATION
SCALE: NOT TO SCALE

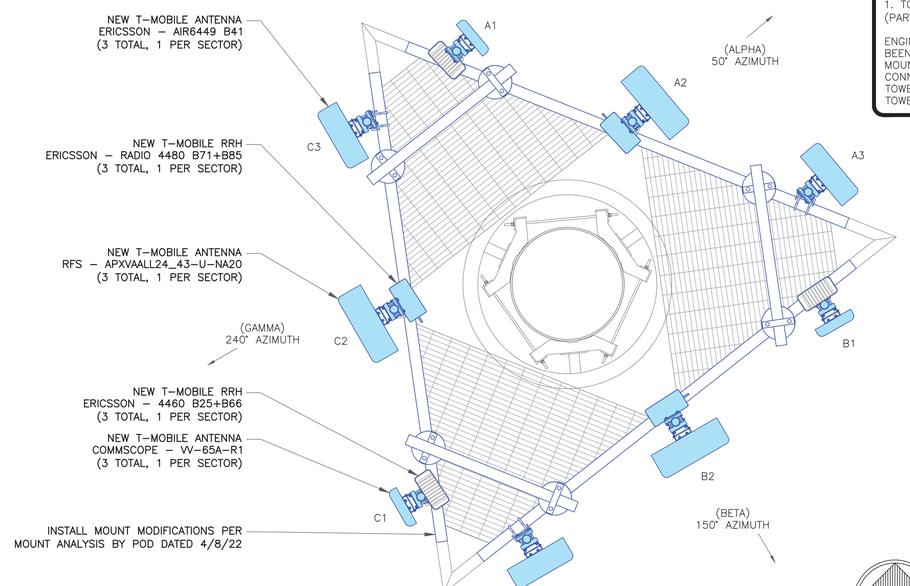


2 EXISTING ANTENNA LAYOUT
SCALE: NOT TO SCALE

NOTE: THE MOUNT HAS SUFFICIENT CAPACITY TO CARRY THE PROPOSED LOADING CONFIGURATION. IN ORDER FOR THE RESULTS OF THE ANALYSIS TO BE CONSIDERED VALID, THE STRUCTURAL MODIFICATIONS LISTED BELOW MUST BE COMPLETED.

1. TOP-RAIL KIT, SITEPRO1 HANDRAIL KIT (PART#: HRK12-HD)

ENGINEERING DETAIL DRAWINGS HAVE BEEN PROVIDED IN APPENDIX E - MOUNT MODIFICATION DESIGN DRAWINGS. CONNECTION FROM THE MOUNT TO THE TOWER AND LOCAL STRESSES ON THE TOWER ARE SUFFICIENT.



3 FINAL ANTENNA LAYOUT
SCALE: NOT TO SCALE

T-Mobile
35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

CROWN CASTLE
1500 CORPORATE DRIVE
CANONSBURG, PA 15317

B+T GRP
1717 S. BOULDER
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
www.btgrp.com

T-MOBILE SITE NUMBER:
CT11127A

BU #: **806358**
NHV 109 943107

1432 OLD WATERBURY RD
SOUTHBURY, CT 06488

EXISTING
226'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
2	8/31/20	MLC	CONSTRUCTION	RMC
3	10/1/20	MLC	CONSTRUCTION	MTJ
4	4/20/22	ANP	CONSTRUCTION	LR
5	5/3/22	ANP	CONSTRUCTION	LR
6	5/9/22	ANP	CONSTRUCTION	LR

B&T ENGINEERING, INC.
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Expires 2/10/23

SHEET NUMBER: C-2

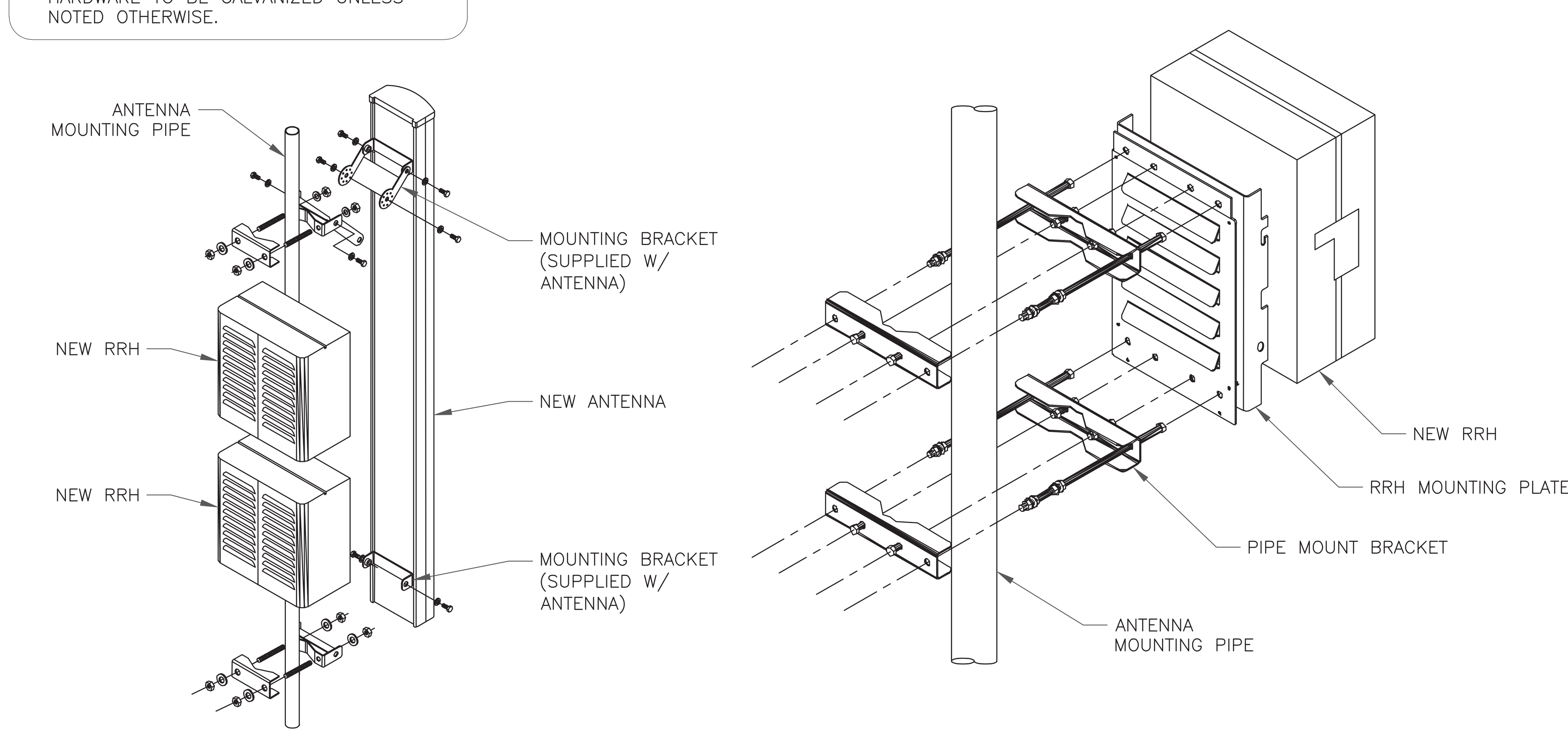
REVISION: 6

ANTENNA SCHEDULE										
SECTOR	POS.	TECHNOLOGY	RAD CENTER	AZIMUTH	ANTENNA MANUFACTURER	ANTENNA MODEL	MECH. TILT	ELECT. TILT	TOWER MOUNTED EQUIPMENT	FEEDLINE TYPE
ALPHA	A1	L2100/G1900/L1900	207'	50°	COMMSCOPE	VV-65A-R1	0°	2°/2°	RADIO 4460 B25+B66	(1) 1-5/8" HYBRID
ALPHA	A2	L700/L600/N600	207'	50°	RFS/CELWAVE	APXVAALL24_43-U-NA20	0°	2°/2°/2°/2°	RADIO 4480 B71+B85	(SHARED) 1-5/8" HYBRID
ALPHA	A3	L2500/N2500	207'	50°	ERICSSON	AIR6449 B41	0°	2°/2°	–	(SHARED) 1-5/8" HYBRID
BETA	B1	L2100/G1900/L1900	207'	150°	COMMSCOPE	VV-65A-R1	0°	2°/2°	RADIO 4460 B25+B66	(1) 1-5/8" HYBRID
BETA	B2	L700/L600/N600	207'	150°	RFS/CELWAVE	APXVAALL24_43-U-NA20	0°	2°/2°/2°/2°	RADIO 4480 B71+B85	(SHARED) 1-5/8" HYBRID
BETA	B3	L2500/N2500	207'	150°	ERICSSON	AIR6449 B41	0°	2°/2°	–	(SHARED) 1-5/8" HYBRID
GAMMA	C1	L2100/G1900/L1900	207'	240°	COMMSCOPE	VV-65A-R1	0°	2°/2°	RADIO 4460 B25+B66	(1) 1-5/8" HYBRID
GAMMA	C2	L700/L600/N600	207'	240°	RFS/CELWAVE	APXVAALL24_43-U-NA20	0°	2°/2°/2°/2°	RADIO 4480 B71+B85	(SHARED) 1-5/8" HYBRID
GAMMA	C3	L2500/N2500	207'	240°	ERICSSON	AIR6449 B41	0°	2°/2°	–	(SHARED) 1-5/8" HYBRID

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.



2 ANTENNA WITH RRHs MOUNTING DETAIL
SCALE: NOT TO SCALE

T-Mobile
35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

CROWN CASTLE
1500 CORPORATE DRIVE
CANONSBURG, PA 15317

B+T GRP
1717 S. BOULDER
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
www.btgrp.com

T-MOBILE SITE NUMBER:
CT11127A

BU #: **806358**
NHV 109 943107

1432 OLD WATERBURY RD
SOUTHBURY, CT 06488

EXISTING
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6	5/9/22	ANP	CONSTRUCTION	LR

5/9/22

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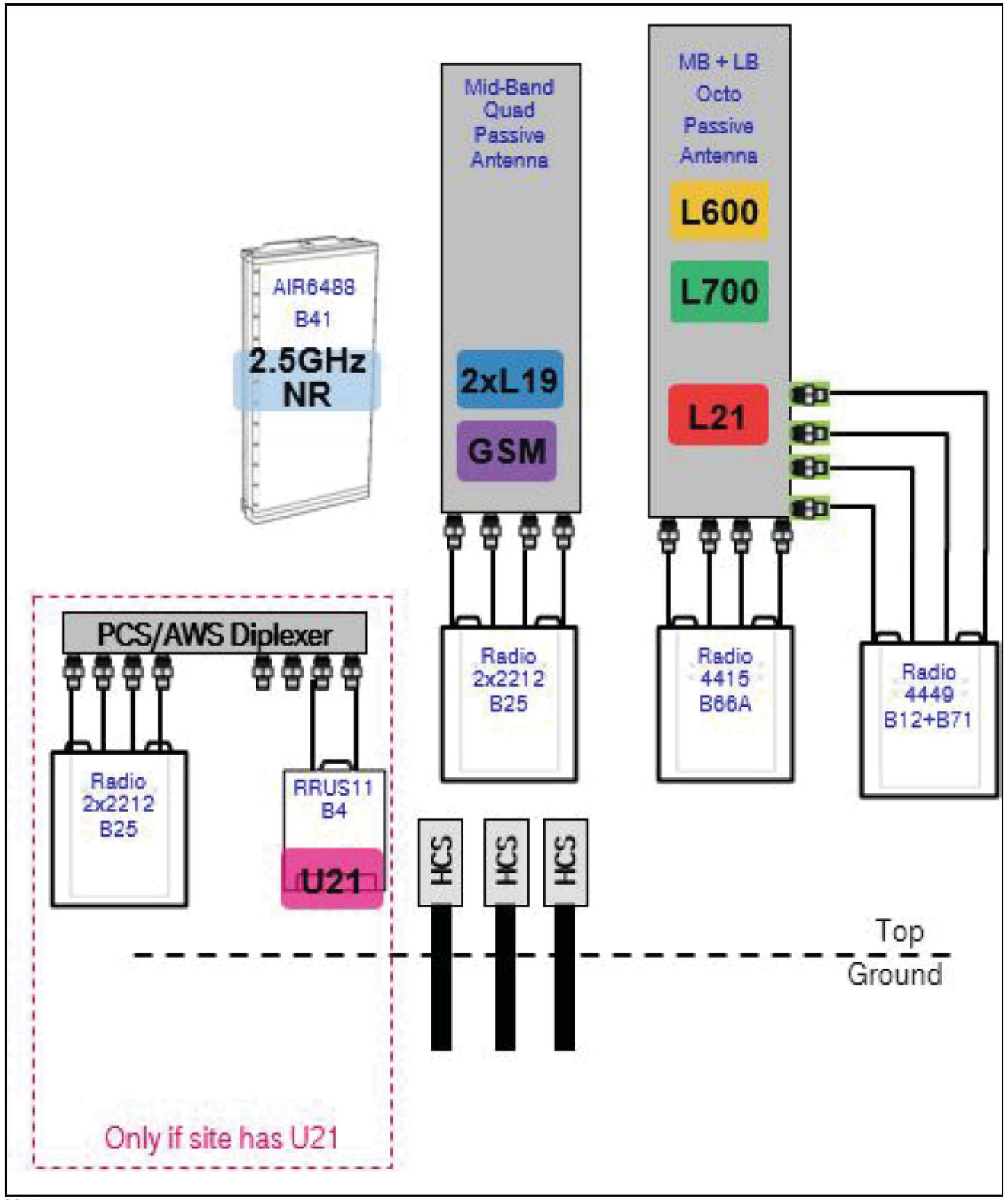
SHEET NUMBER: C-3

REVISION: 6



1 PLUMBING DIAGRAM
SCALE: NOT TO SCALE

T-Mobile
35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

CROWN CASTLE
1500 CORPORATE DRIVE
CANONSBURG, PA 15317

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SOUTHBURY, CT 06488

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6	5/9/22	ANP	CONSTRUCTION	LR

5/9/22

B&T ENGINEERING, INC.
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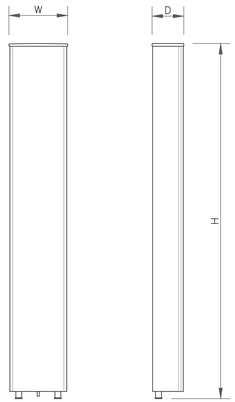
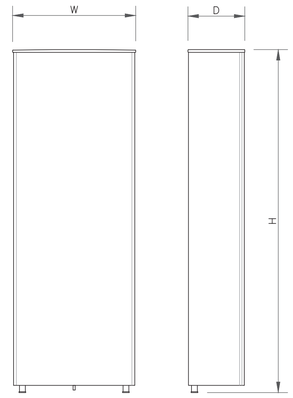
Expires 2/10/23

SHEET NUMBER: C-4
REVISION: 6



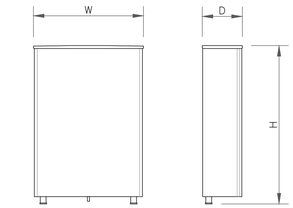
ANTENNA SPECS	
MANUFACTURER	COMMSCOPE
MODEL #	VV-65A-R1
WIDTH	12"
DEPTH	4.6"
HEIGHT	54.7"
WEIGHT	33.3 LBS

1 ANTENNA SPECS
SCALE: NOT TO SCALE



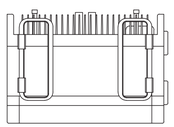
ANTENNA SPECS	
MANUFACTURER	RFS
MODEL #	APXVAALL24_43-U-NA20
WIDTH	24"
DEPTH	8.5"
HEIGHT	95.9"
WEIGHT	149.9 LBS

2 ANTENNA SPECS
SCALE: NOT TO SCALE



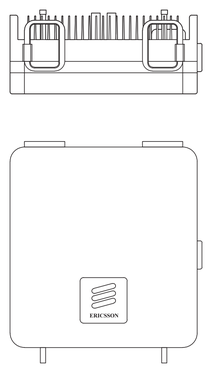
ANTENNA SPECS	
MANUFACTURER	ERICSSON
MODEL #	AIR6449 B41
WIDTH	20.60"
DEPTH	8.60"
HEIGHT	33.10"
WEIGHT	104 LBS

3 ANTENNA SPECS
SCALE: NOT TO SCALE



RRU SPECIFICATIONS	
MANUFACTURER	ERICSSON
MODEL #	4460 B25+B66
WIDTH	15.1"
DEPTH	11.9"
HEIGHT	17.0"
WEIGHT	109 LBS

4 RRU SPECS
SCALE: NOT TO SCALE



RRU SPECIFICATIONS	
MANUFACTURER	ERICSSON
MODEL #	4480 B71+B85
WIDTH	15.7"
DEPTH	7.5"
HEIGHT	22"
WEIGHT	81.0 LBS

5 RRU SPECS
SCALE: NOT TO SCALE

6 NOT USED
SCALE: NOT TO SCALE

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T-MOBILE SITE NUMBER:
CT11127A

BU #: **806358**
NHV 109 943107

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SOUTHBURY, CT 06488

EXISTING
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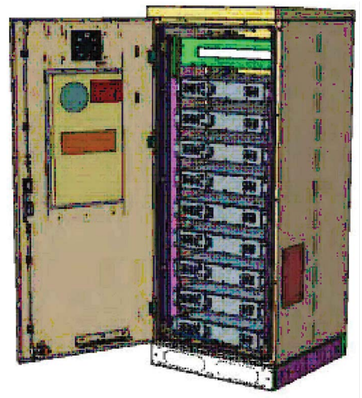
B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/23

SHEET NUMBER: C-5

REVISION: 6

CABINET SPECIFICATIONS	
MANUFACTURER	ERICSSON
MODEL #	6160
WIDTH	25.6"
DEPTH	33.5"
HEIGHT	63"
WEIGHT	60 LBS

1 ERICSSON 6160 SSC
SCALE: NOT TO SCALE



CABINET SPECIFICATIONS	
MANUFACTURER	ERICSSON
MODEL #	B160
WIDTH	26"
DEPTH	26"
HEIGHT	63"
WEIGHT	134 KG

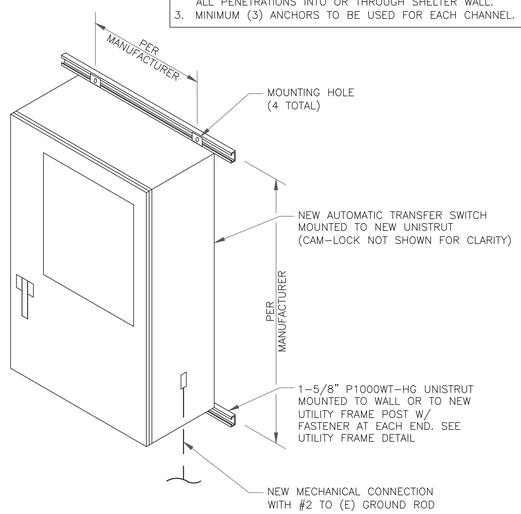
2 ERICSSON B160 BATTERY CABINET
SCALE: NOT TO SCALE

3 NOT USED
SCALE: NOT TO SCALE

4 NOT USED
SCALE: NOT TO SCALE

UNISTRUT WALL ATTACHMENT:		
WALL CONSTRUCTION TYPE	FASTENER	ANCHOR SPACING
WOOD STUD	3/8" DIA. LAG SCREW	16"
CONCRETE BLOCK (HOLLOW)	–	8"
CONCRETE BLOCK (SOLID)	3/8"ø SIMPSON TITEN HD ANCHOR MINIMUM EMBEDMENT 2–3/4"	24"

NOTES:
1. USE GALVANIZED OR STAINLESS STEEL HARDWARE FOR WALL MOUNT AND CONNECTION OF CHANNELS.
2. GC SHALL USE NON–SHRINKING CAULK TO WEATHER SEAL ALL PENETRATIONS INTO OR THROUGH SHELTER WALL.
3. MINIMUM (3) ANCHORS TO BE USED FOR EACH CHANNEL.



5 ATS MOUNTING DETAIL
SCALE: NOT TO SCALE

T-Mobile
35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

CROWN CASTLE
1500 CORPORATE DRIVE
CANONSBURG, PA 15317

B+T GRP
1717 S. BOULDER
SUITE 300
TULSA, OK 74119
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T-MOBILE SITE NUMBER:
CT11127A

BU #: **806358**
NHV 109 943107

1432 OLD WATERBURY RD
SOUTHBURY, CT 06488

EXISTING
226'-0" MONOPOLE

ISSUED FOR:

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B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/23

SHEET NUMBER: C-6

REVISION: 6

FINAL PANEL SCHEDULE

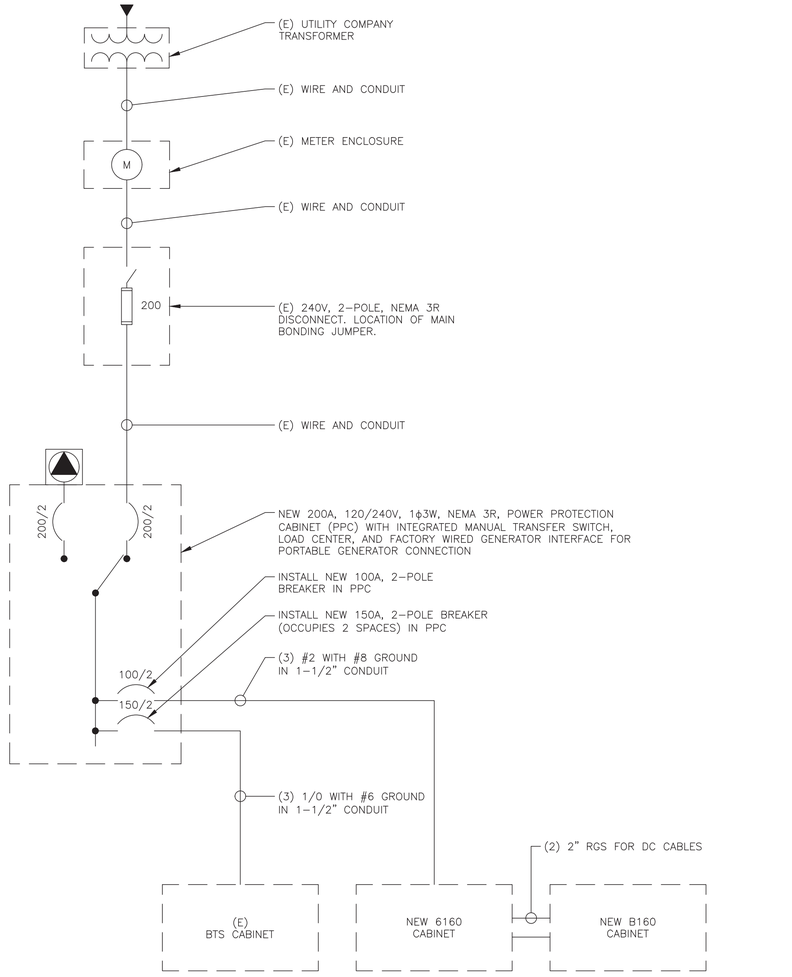
LOAD	POLES	AMPS	BUS L1	BUS L2	AMPS	POLES	LOAD
GFCI	1	20A	1	2	150A	2	RBS 6201
6160	2	100A	3	4			
			5	6			
			7	8			
			9	10			
			11	12			
			13	14			
			15	16			

RATED VOLTAGE: ■120/240 □_____, 1 PHASE, 3 WIRE	BRANCH POLES: ■16 □24 □30 □42	APPROVED MF'RS	
RATED AMPS: ■100 □200 □400 □_____,	CABINET: ■SURFACE □FLUSH	NEMA □1 ■3R □4X	
□MAIN LUGS ONLY ■MAIN 100 AMPS ■BREAKER □FUSED SWITCH	■HINGED DOOR	■KEYED DOOR LATCH	
□FUSED ■CIRCUIT BREAKER BRANCH DEVICES	□_____ TO BE GFCI BREAKERS	FULL NEUTRAL BUS	GROUND BAR
ALL BREAKERS MUST BE RATED TO INTERRUPT A SHORT CIRCUIT ISC OF 10,000 AMPS SYMMETRICAL			

EXISTING 100A BREAKER PANEL TO BE REPLACED W/ NEW 200A BREAKER PANEL. SQUARE D P/N: QO12040M200RB (OR APPROVED EQUAL)
REPLACE EXISTING BREAKER IN POSITION 2 AND 4 WITH A NEW 2P 150A BREAKER. INSTALL NEW 2P 100A BREAKER IN 3 AND 5.
REPLACE EXISTING BREAKERS W/ NEW BREAKERS OF SAME AMPERAGE INSIDE NEW PANEL
REPLACE EXISTING WIRES FOR EXISTING 6201 CABINET WITH (3) 1/0 AWG THWN (COPPER) AND (1) #6G AWG. MINIMUM CONDUIT SIZE TO BE 2".
INSTALL NEW WIRES FOR NEW 6160 CABINET (3) 1/0 AWG THWN (COPPER) AND (1) #6G AWG. MINIMUM CONDUIT SIZE TO BE 2".
UPGRADE FEEDER WIRES TO MEET AMPACITY.
FINAL PANEL DESIGN AND CALCULATIONS FOR WIRE SIZE WERE BASED OFF OF EXISTING PHOTOS

1 FINAL T–MOBILE PANEL DETAIL
SCALE: NOT TO SCALE

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, XHHW–2, THW, THW–2, RHW, OR RHW–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

T-Mobile
35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

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B&T ENGINEERING, INC.
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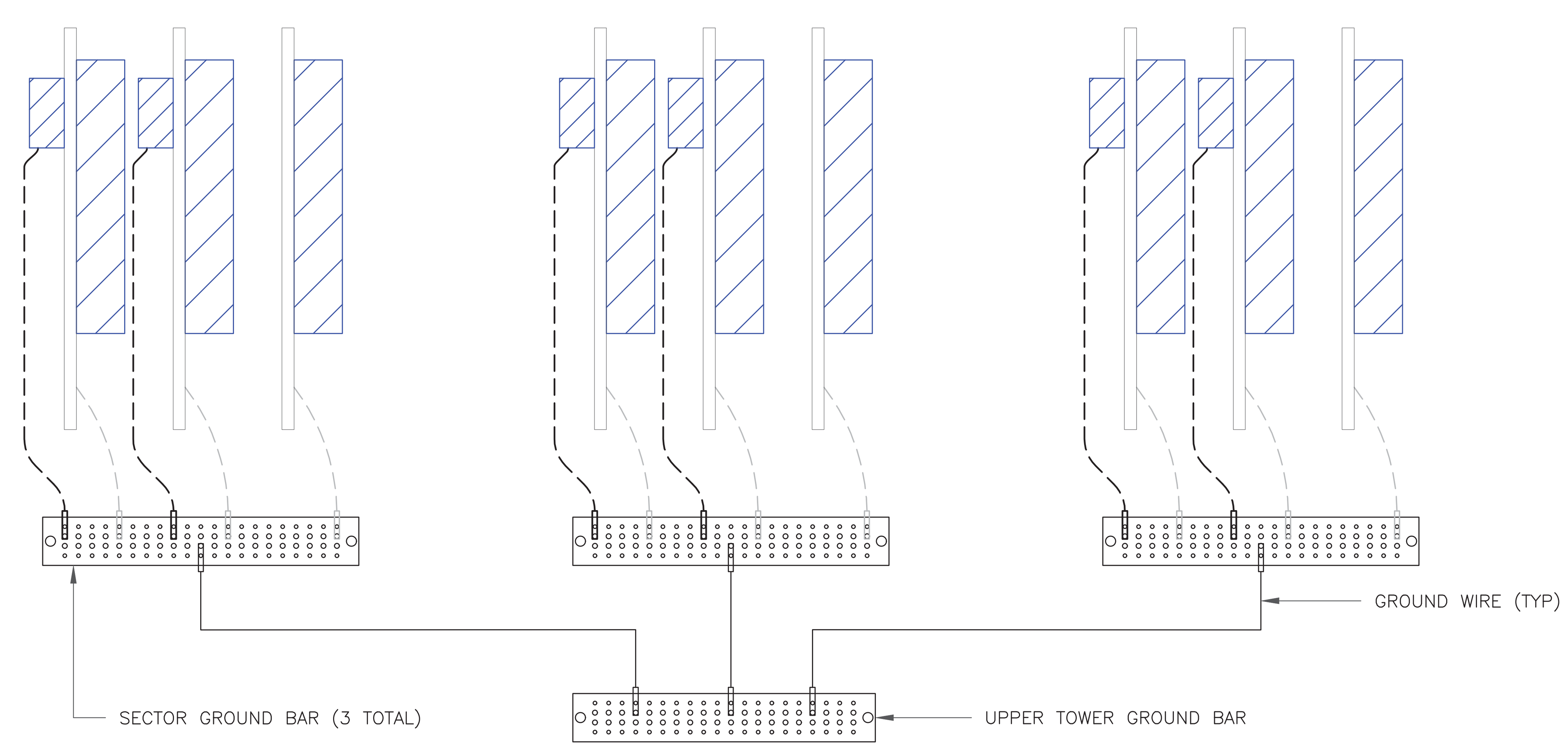
SHEET NUMBER: E-1

REVISION: 6



NOTE:

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

1 ANTENNA GROUNDING DIAGRAM
SCALE: NOT TO SCALE

T-Mobile

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

CROWN CASTLE
1500 CORPORATE DRIVE
CANONSBURG, PA 15317

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B&T ENGINEERING, INC.
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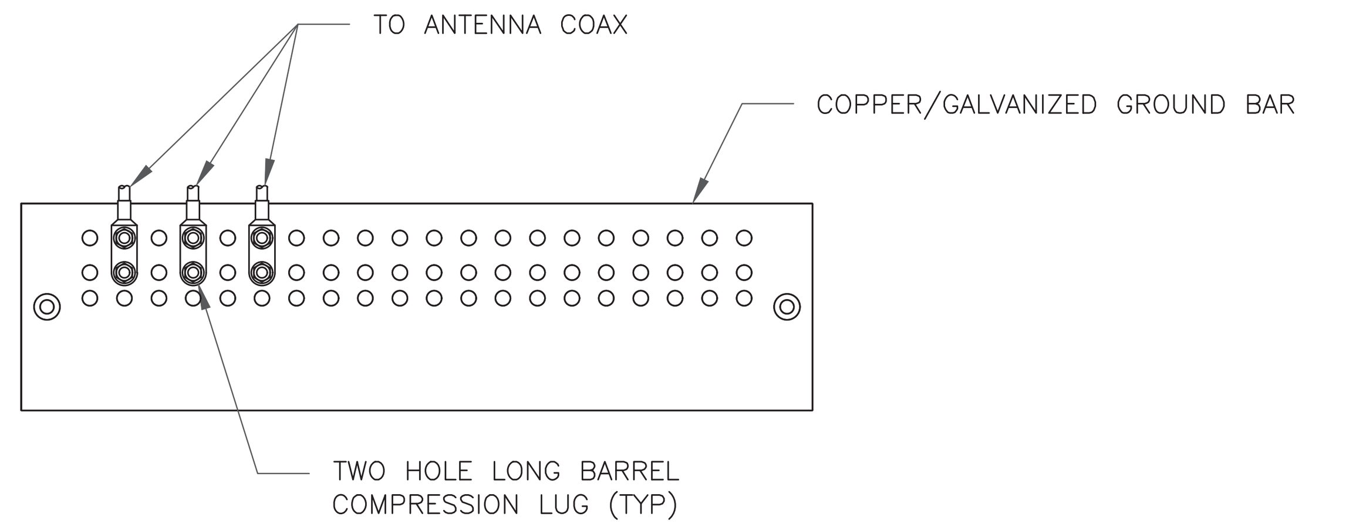
Expires 2/10/23

SHEET NUMBER: G-1

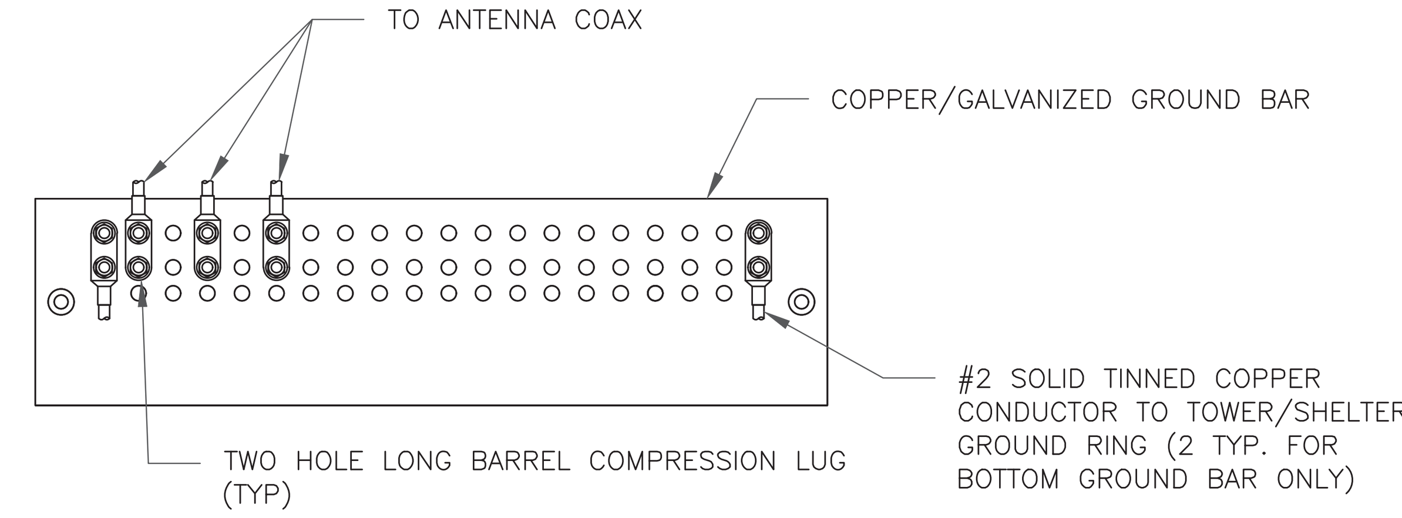
REVISION: 6



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.

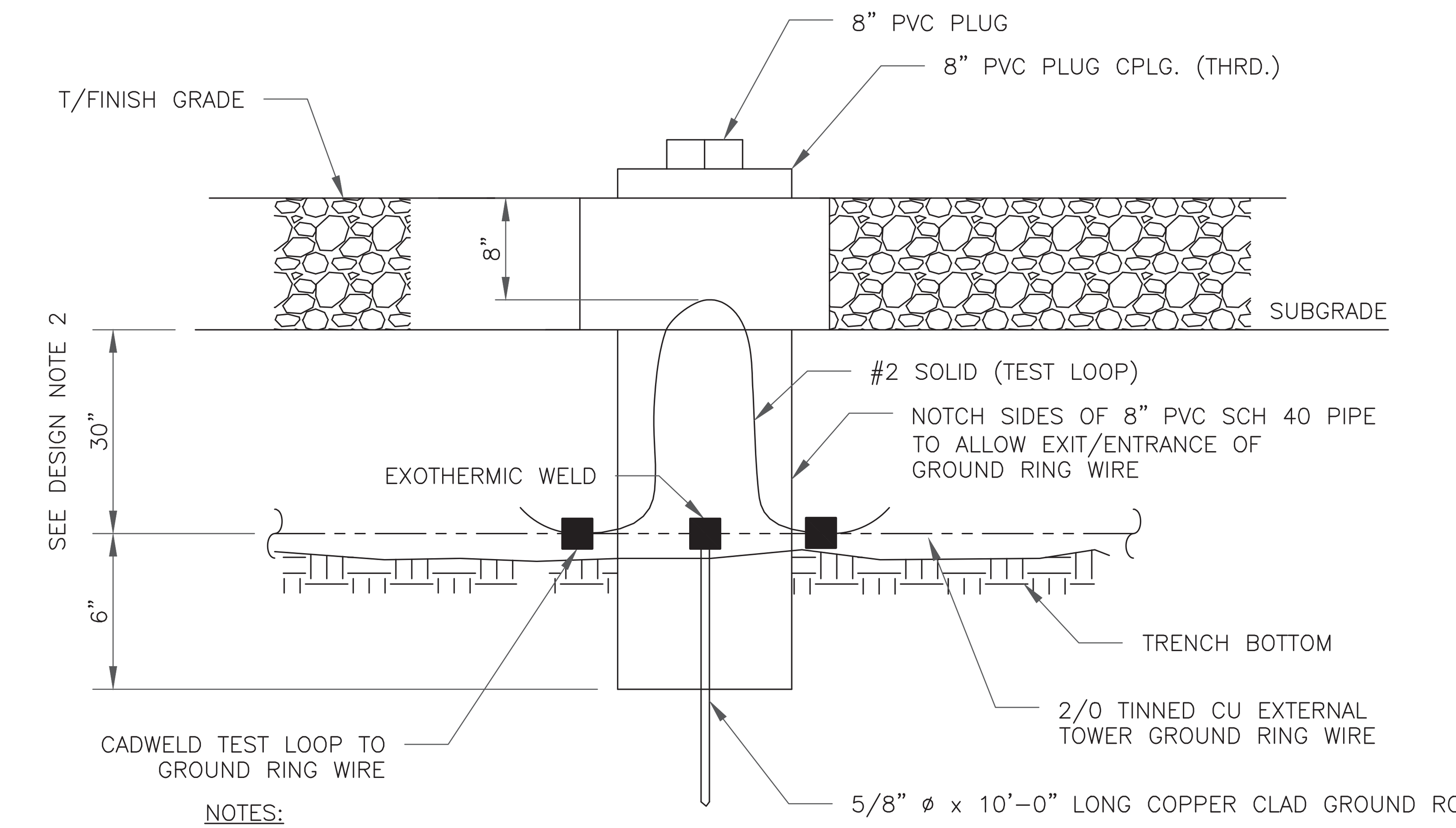
1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE



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.

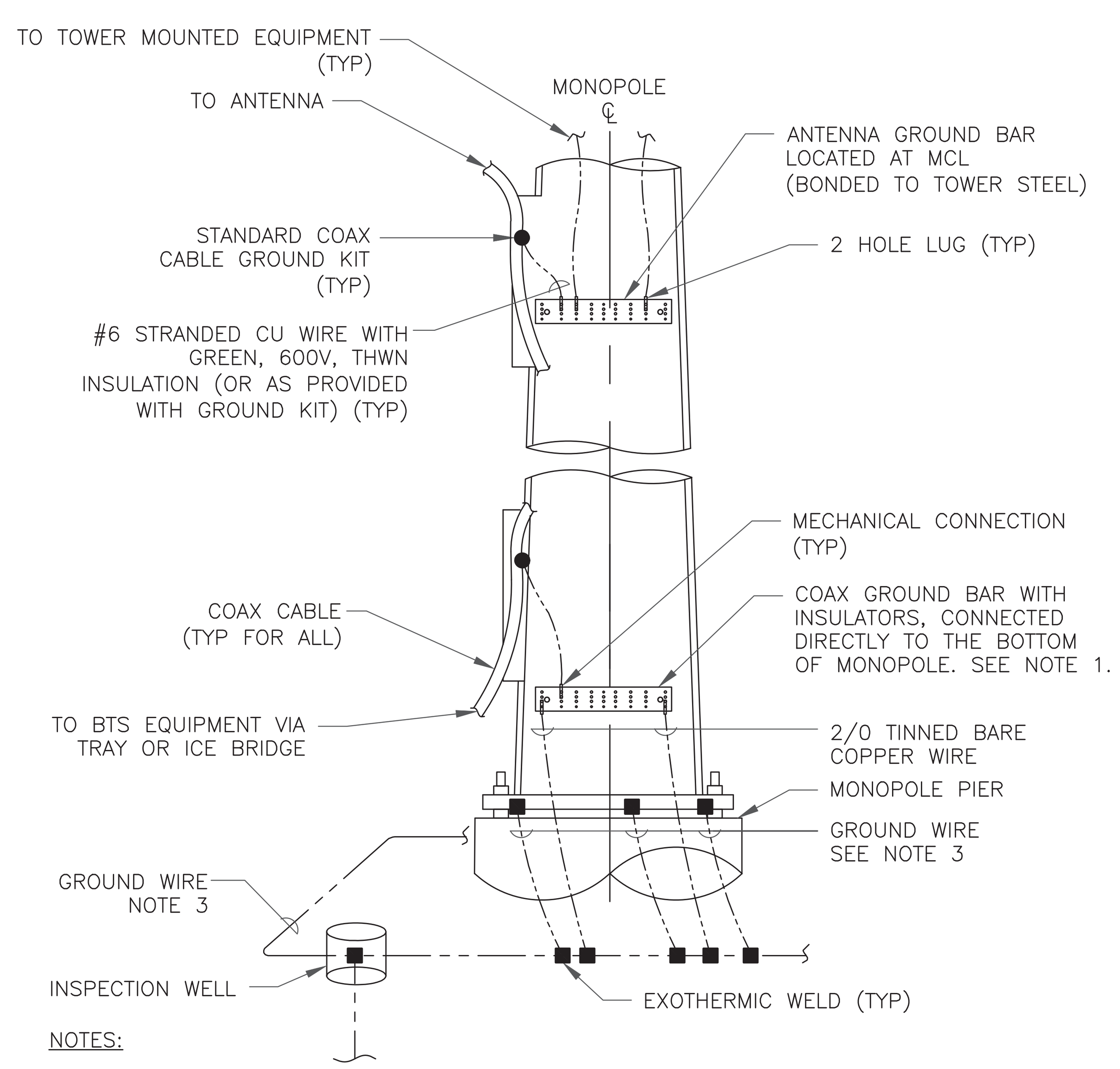
2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

1. GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL
2. GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D)

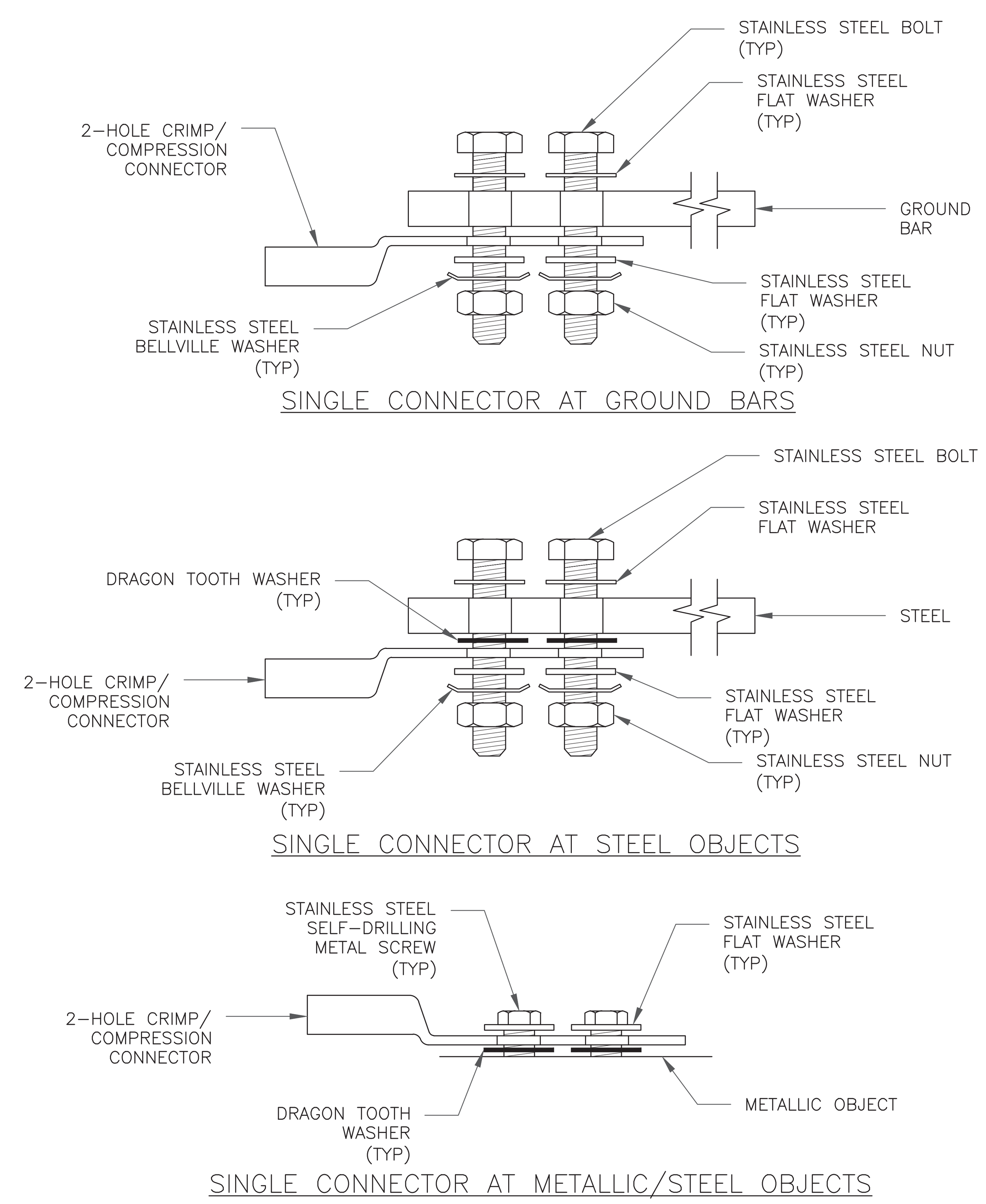
3 INSPECTION WELL DETAIL
SCALE: NOT TO SCALE



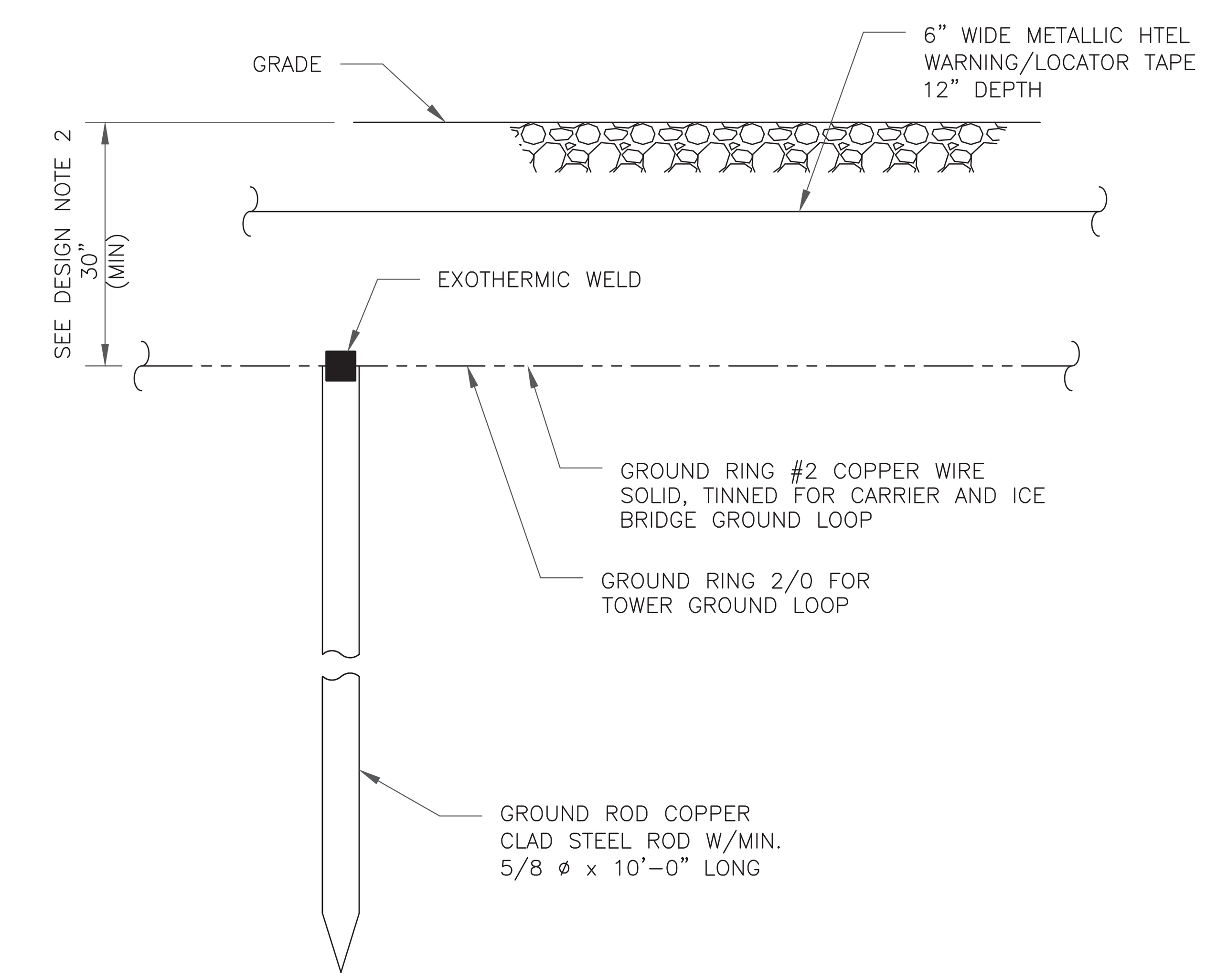
NOTES:

1. NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATIONS AND CONNECTION ORIENTATION. COAXIAL CABLES EXCEEDING 200 FEET ON THE TOWER SHALL HAVE GROUND KITS AT THE MIDPOINT. PROVIDE AS REQUIRED.
2. ONLY MECHANICAL CONNECTIONS ARE ALLOWED TO BE MADE TO CROWN CASTLE USA INC. TOWERS. ALL MECHANICAL CONNECTIONS SHALL BE TREATED WITH AN ANTI-OXIDANT COATING.
3. ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF THE RECOGNIZED EDITION OF ANSI/TIA 222 AND NFPA 780.

4 TYPICAL ANTENNA CABLE GROUNDING
SCALE: NOT TO SCALE



5 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



NOTES:

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2. GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D)

6 GROUND ROD DETAIL
SCALE: NOT TO SCALE

T · · Mobile · · ·
35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

CROWN CASTLE
1500 CORPORATE DRIVE
CANONSBURG, PA 15317

B+T GRP
1717 S. BOULDER
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
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T-MOBILE SITE NUMBER:
CT11127A

BU #: **806358**
NHV 109 943107

1432 OLD WATERBURY RD
SOUTHBURY, CT 06488

EXISTING
226'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
2	8/31/20	MLC	CONSTRUCTION	RMC
3	10/1/20	MLC	CONSTRUCTION	MTJ
4	4/20/22	ANP	CONSTRUCTION	LR
5	5/3/22	ANP	CONSTRUCTION	LR
6	5/9/22	ANP	CONSTRUCTION	LR

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/23

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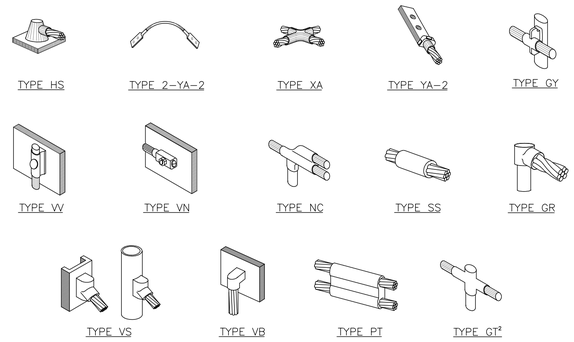
SHEET NUMBER: G-2
REVISION: 6

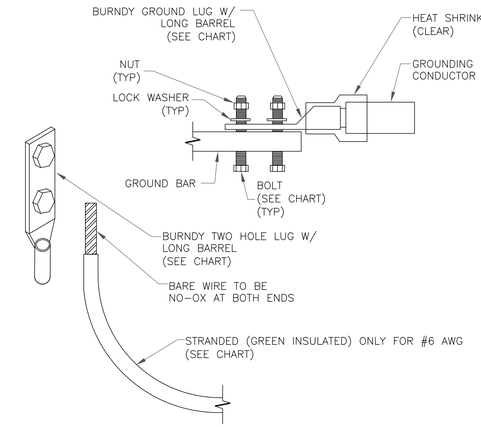


NOTE:

1. ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.
2. MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

1 CADWELD GROUNDING CONNECTIONS
SCALE: NOT TO SCALE

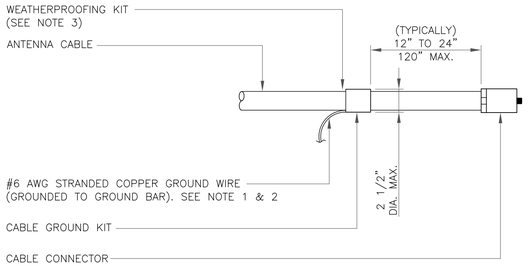
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



NOTES:

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

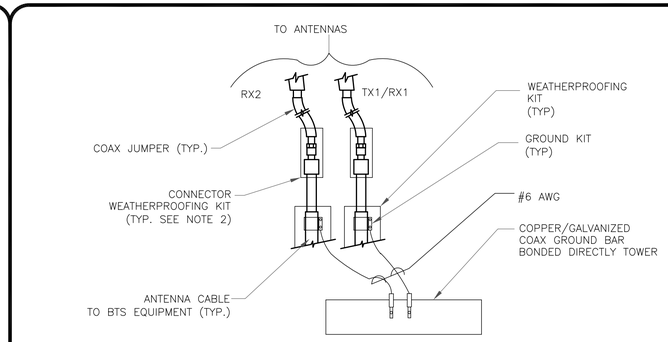
2 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



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.

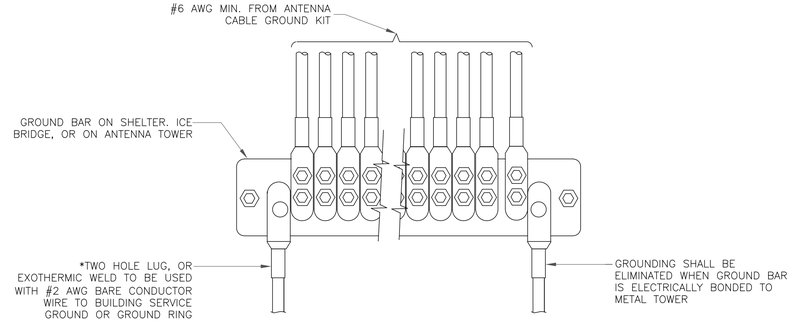
3 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



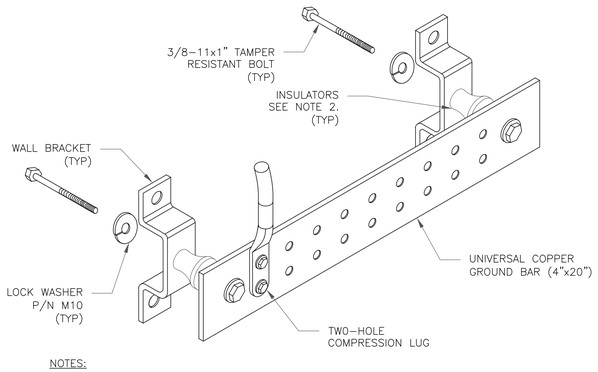
NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.

4 GROUND CABLE CONNECTION
SCALE: NOT TO SCALE



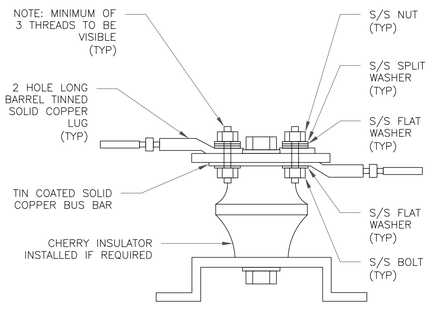
5 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



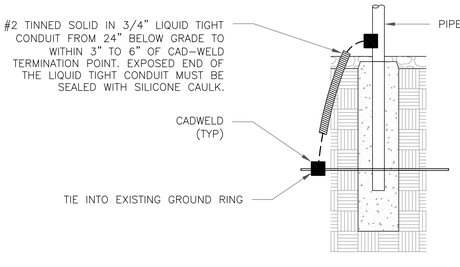
NOTES:

1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

6 GROUND BAR DETAIL
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE



8 TRANSITIONING GROUND DETAIL
SCALE: NOT TO SCALE

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REVISION: 6