



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

April 29, 2025

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

RE: Notice of Exempt Modification for Verizon Wireless
Crown Site ID# 803934
400 Main St., Somers, CT 06071
Latitude: 41° 59' 1.48" / Longitude: -72°2756.87"

Dear Ms. Bachman:

Verizon Wireless currently maintains nine (9) antennas at the 178-foot mount on the existing 187-foot lattice tower located at 400 Main St., Somers, CT. The property is owned by Martin Carolyn M L/U and Tower are owned by Crown Castle. Verizon now intends to add two (2) interference mitigation filters at the 178-foot level. This modification/proposal includes hardware that is both 4G (LTE) and 5G capable through remote software configuration and either or both services may be turned on or off at various times.

Panned Modification:

Tower:

Install New:

(2) Kaelus BSF0020F3V1- Interference Mitigation Filters

The facility was approved by the Town of Somers in 2001 but no hard copy is available. However, several modifications have been approved by the Siting Council since the original approval.

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 Tim Keeney, First Selectman, Town of Somers, as property owner, Jennifer Roy, Land Use Coordinator, Town of Somers and Crown Castle, tower owner.

1. The proposed modifications will not result in an increase in the height of the existing tower.
2. The proposed modifications will not require the extension of the site boundary.
3. The proposed modification will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.

4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communication Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, Verizon Wireless 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: Keenan Brinn.

Sincerely,

Keenan Brinn
Permitting Specialist
1800 W. Park Drive
Westborough, MA 01581
(617) 680-5464
Keenan.Brinn.Contractor@crowncastle.com

Attachments

cc:

Tim Keeney, First Selectman
Town of Somers
600 Main Street
Somers, CT 06071
(860)763-8200

Jennifer Roy, Land Use Coordinator
Town of Somers
600 Main Street
Somers, CT 06071
(860)763-8220

Crown Castle, Tower Owner

400 MAIN ST

Location 400 MAIN ST

Mblu 05/07/11

Acct# 00202300

Owner SOMERS TOWN OF

Assessment \$2,706,200

Appraisal \$3,866,000

PID 2932

Building Count 1

Dev Lot

Dev Map

Exempt Code X

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2020	\$2,961,000	\$905,000	\$3,866,000
Assessment			
Valuation Year	Improvements	Land	Total
2020	\$2,072,700	\$633,500	\$2,706,200

Owner of Record

Owner SOMERS TOWN OF
Co-Owner FIRE COMPLEX
Address 400 MAIN STREET
SOMERS, CT 06071

Sale Price \$240,000
Certificate
Book & Page 0165/0819
Sale Date 08/18/1995

Ownership History

Ownership History				
Owner	Sale Price	Certificate	Book & Page	Sale Date
SOMERS TOWN OF	\$240,000		0165/0819	08/18/1995

Building Information

Building 1 : Section 1

Year Built: 2001
Living Area: 16,282
Replacement Cost: \$3,905,967

Building Percent Good: 72
Replacement Cost
Less Depreciation: \$2,812,300

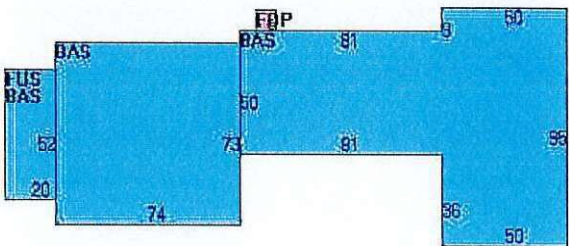
Building Attributes	
Field	Description
Style:	Fire Station
Model	Ind/Comm
Grade:	Good/Vg
Stories:	1.00
Occupancy:	1.00
Exterior Wall 1:	Brick Veneer
Exterior Wall 2:	Vinyl/Aluminum
Roof Struct:	Hip
Roof Cover:	Copper
Interior Wall 1:	Drywall
Interior Wall 2:	Minim/Masonry
Interior Floor 1:	Concr-Finished
Interior Floor 2:	Linoleum
Heating Fuel:	Oil
Heating Type:	Forced Air
AC Type:	None
Struct Class	Post Office
Bldg Use:	Fire Dept
Fin Bsmt:	0
Ttl Bedrms:	
Ttl Baths:	
Ttl Half Baths:	
Ttl Xtra Fix:	
1st Floor Use:	
Heat/AC:	Heat/Ac Pkgs
Frame Type:	Wood Frame
Baths/Plumbing:	Average
Ceiling/Wall:	Sus-Ceil & WI
Rooms/Prtns:	Average
Wall Height:	12.00
% Conn Wall:	

Building Photo



(https://images.vgsi.com/photos/SomersCTPhotos///0009/P1020043_9570).

Building Layout



Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	15,242	15,242
FUS	Finished Upper Story	1,040	1,040
FOP	Open Porch	64	0
		16,346	16,282

Extra Features

Extra Features				Legend
Code	Description	Size	Value	Bldg #
SPR1	Sprinklers-Wet	15242.00 SF	\$29,600	1

A/C	Air Conditioning	8800.00 SF	\$15,800	1
-----	------------------	------------	----------	---

Land

Land Use

Use Code 928
 Description Fire Dept
 Zone A-1
 Neighborhood E
 Alt Land Appr No
 Category

Land Line Valuation

Size (Acres) 11.00
 Frontage
 Depth
 Assessed Value \$633,500
 Appraised Value \$905,000

Outbuildings

Outbuildings						Legend
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
PAV1	Paving Asph			32000.00 SF	\$57,600	1
LT	Light	1	Single	13.00 UNITS	\$21,800	1
TWR	Tower			190.00 LF	\$0	1
CB1	PreCast Cell Shed	CB		120.00 SF	\$18,000	1
FN4	Fence 8'			330.00 LF	\$5,900	1

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2024	\$2,919,400	\$873,800	\$3,793,200
2022	\$2,919,400	\$873,800	\$3,793,200
2020	\$2,919,400	\$873,800	\$3,793,200

Assessment			
Valuation Year	Improvements	Land	Total
2024	\$2,043,600	\$611,700	\$2,655,300
2022	\$2,043,600	\$611,700	\$2,655,300
2020	\$2,043,600	\$611,700	\$2,655,300

400 Main St.

Write a description for your map.

Legend

400 Main St



Google Earth

Image Landsat / Copernicus

400 Main St

Somers Fire Department

N

100 ft

Firehouse Fields

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492



B+T GRP
MTS ENGINEERING, P.L.L.C.
1717 S. BOULDER
SUITE 300
TULSA, OK 74119
PH: (918) 597-4630
btwo@btgrp.com

SOMERS 2 CT
 BU#: 803934
 ORDER #: 609577
 400 MAIN STREET
 SOMERS, CT 06071
 EXISTING MONOPOLIE

BU#: 803934
ORDER #: 609577
400 MAIN STREET
SOMERS, CT 06071
EXISTING MONOPILE

PROJECT NO:	87311.022.01
CHECKED BY:	LR

REV	DATE	DRWN	DESCRIPTION
0	2/11/25	BKR	CONSTRUCTION
1	3/19/25	BKR	CONSTRUCTION

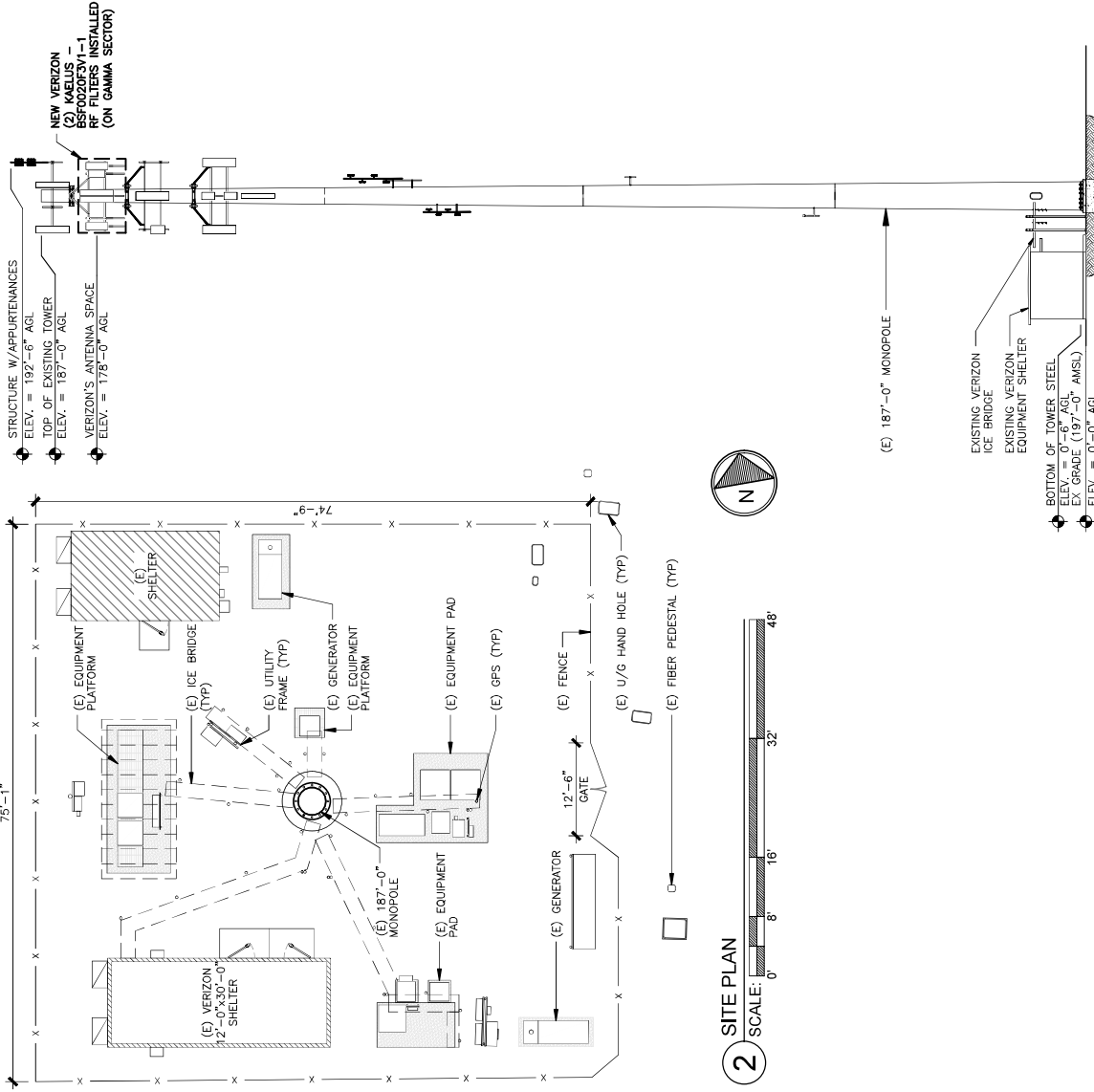
MTS ENGINEERING P.L.L.C.
PEC.0002304
Expires 4/11/25

PEC:0002304
Expires 4/11/25

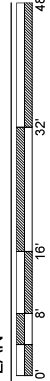


IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT

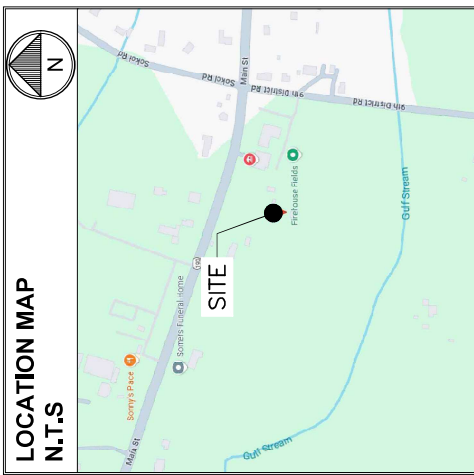
SHEET NUMBER: LE-1	REVISION: 1
------------------------------	-----------------------



3 TOWER ELEVATION
SCALE: N.T.S



2 SITE PLAN SCALE: 



APPROXIMATE COORDINATES:	LATITUDE:	LONGITUDE:
	41° 59' 1.48" N	41.9837° N
	72° 27' 56.87" W	72.4658° W



1 PARTIAL SITE / KEY PLAN
SCALE: N.T.S.



NOTE:
AN ANALYSIS OF THE CAPACITY OF THE STRUCTURE
TO SUPPORT THE PROPOSED LOADING HAS BEEN
COMPLETED BY B+T GROUP DATED JANUARY 28,
2025.

LEASE EXHIBIT:
THIS LEASE EXHIBIT IS DIAGRAMMATIC IN NATURE AND IS INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION AND SIZE OF THE PROPOSED WIRELESS COMMUNICATION FACILITY. THE SITE LAYOUT WILL BE FINALIZED UPON COMPLETION OF THE SITE SURVEY AND FACILITY DESIGN.



20 ALEXANDER DRIVE
WALLINGFORD, CT 06492



MTS ENGINEERING PLLC
1000 S. MAIN STREET
SUITE 300
TULSA, OK 74119
(918) 439-8800
info@btgrp.com

SOMERS 2 CT

ORDER #: 609577
BU# : 803934
400 MAIN STREET
SOMERS, CT 06071
EXISTING MONOPOLE

PROJECT NO: 8731022.0
CHECKED BY: LR

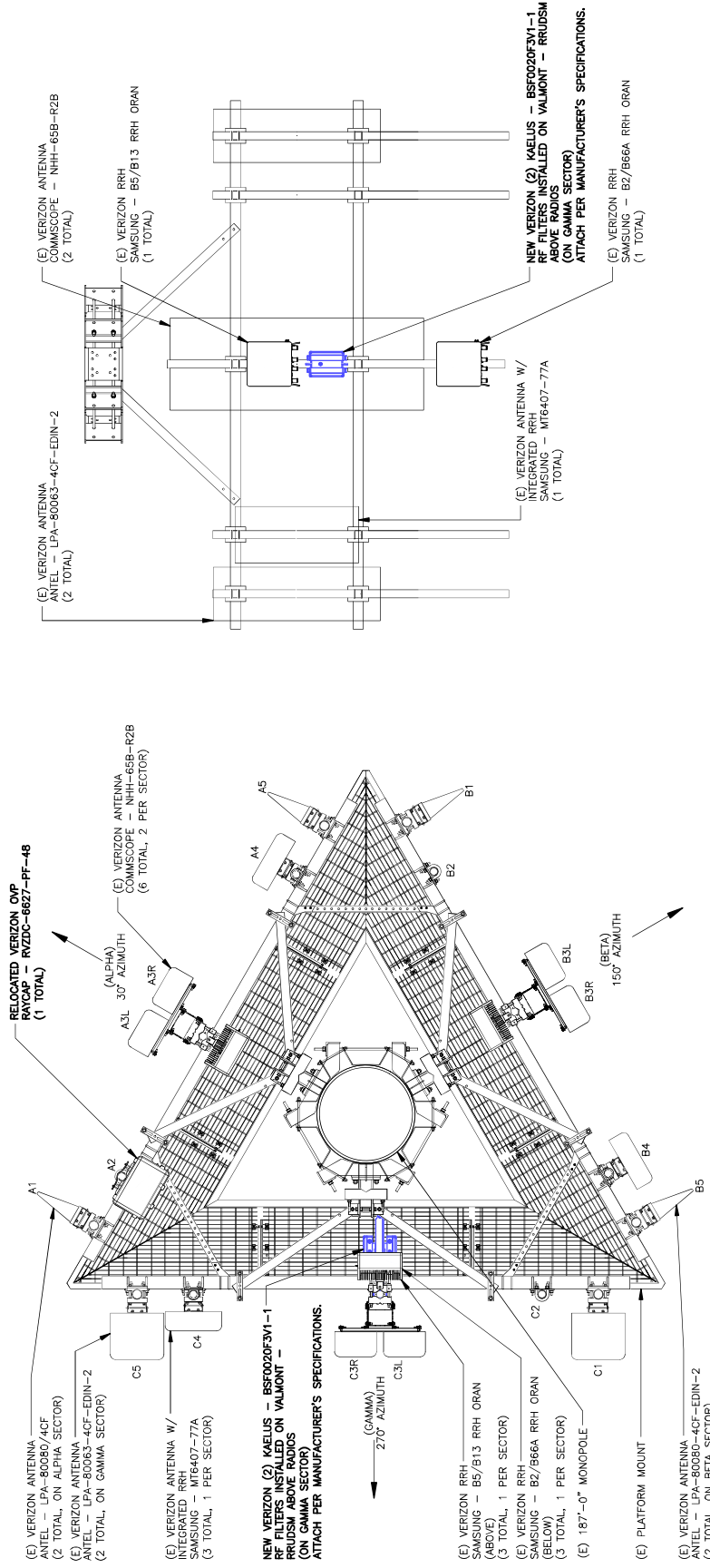
REV	DATE	DESCRIPTION
0	2/11/25	BKR CONSTRUCTION
1	3/19/25	BKR CONSTRUCTION

MTS ENGINEERING PLLC
PEC 0002304
Expires 4/11/25



IT IS A VIOLATION OF LAW FOR ANY PERSON TO REPRODUCE OR TRANSMIT THIS DOCUMENT WITHOUT THE WRITTEN PERMISSION OF A LICENSED PROFESSIONAL ENGINEER.

SHEET NUMBER: **LE-2**
REVISION: **1**



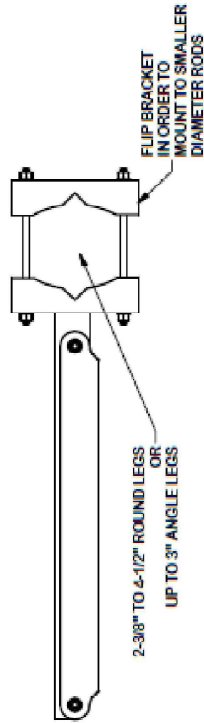
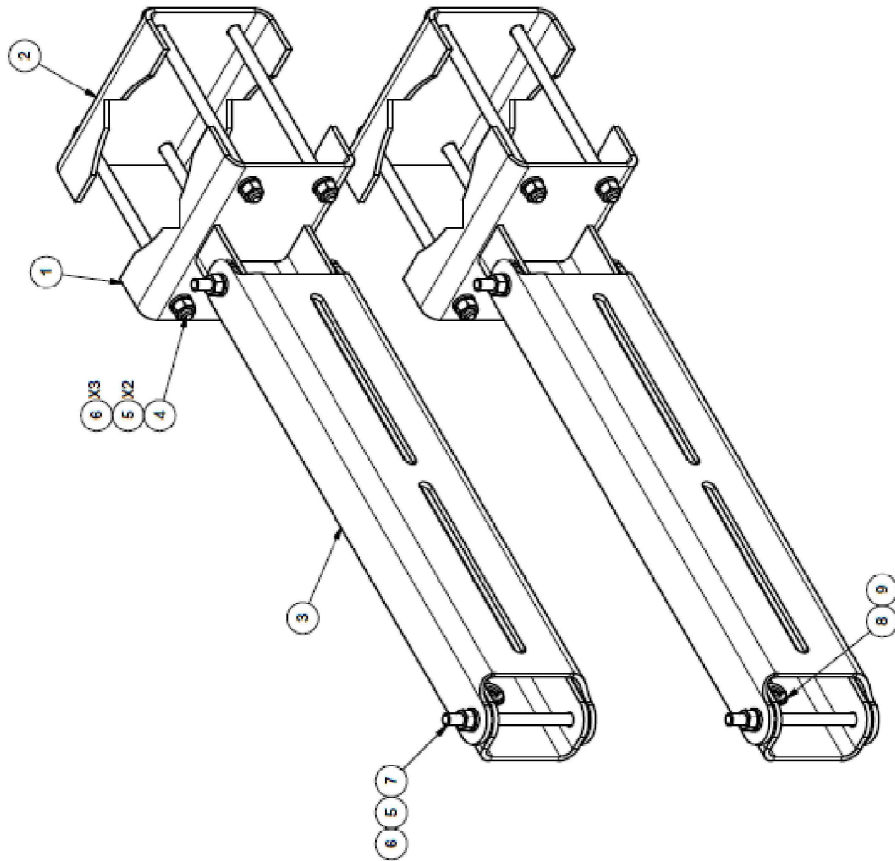
NOTE:
ELEVATION VIEW FROM
BEHIND ANTENNAS

NOTE:
ANTENNA POSITIONS LABELED PER
MOUNT ANALYSIS

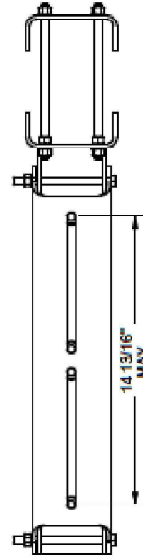
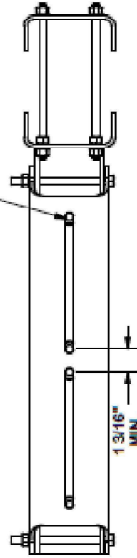
1 NEW RF FILTER PLAN
SCALE: 0 1' 2' 4' 8'

2 NEW RF FILTER ELEVATION
SCALE: 0 1' 2' 4' 8'

PARTS LIST				
ITEM	QTY	PART DESCRIPTION	LENGTH	UNIT WT.
1	2	MOUNTING ARM		8.99
2	2	CLAMP PLATE		2.35
3	2	SWIVEL MOUNT		6.65
4	8	3/8" - 16 UNC X 8" GALV. THREADED ROD		0.25
5	20	3/8" GALV LOCK WASHER		0.01
6	28	3/8" - 16 UNC GALV. HEX NUT		0.02
7	4	3/8" X 5" GALV. BOLT		0.18
8	8	3/8" SS FLAT WASHER		0.01
9	8	3/8" SS LOCK WASHER		0.05
TOTAL WT. #				39.43



3/8" HARDWARE



TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
 SAWED, SHEARED AND GAS CUT EDGES (± 0.007)
 UNMILLED AND GAS CUT HOLES (± 0.007) - NO CONING OF HOLES
 LASER CUT EDGES AND HOLES (± 0.010) - NO CONING OF HOLES
 BENDS ARE $\pm 1/2$ DEGREE
 ALL OTHER MACHINING (± 0.007)
 ALL OTHER ASSEMBLY (± 0.007)

PROPRIETARY NOTE:
 THIS DRAWING AND ANY PARTS THEREOF ARE THE PROPERTY OF SUEBRO INC. AND ARE NOT TO BE REPRODUCED OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF SUEBRO INC. ANY VIOLATION OF THIS POLICY WILL BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

DESCRIPTION		RRU DUAL SWIVEL MOUNT		PART NO. RRUDSM	
CPG NO.	DRAWN BY	CEK	1/12/2015	ENG. APPROVAL	
CLASS	SUB	81	01	DRAWING USAGE	
		SHOP	BMC	2/3/2015	CHCKD BY
					RRUDSM



Engineering
 Support Team
 1-888-753-7446
 Los Angeles, CA
 Plymouth, IN
 Salem, OR
 Dallas, TX

A valmont COMPANY

LOCATION:		New York, NY		PAGE 1 OF 1	
New York, NY		Los Angeles, CA			
Plymouth, IN		Salem, OR			
Dallas, TX					



Date: January 28, 2025

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

Subject: Structural Analysis Report

Carrier Designation: Verizon Wireless Co-Locate
Site Number: 5000242675
Site Name: SOMERS 2 CT

Crown Castle Designation: BU Number: 803934
Site Name: CT SOMERS FD CAC
JDE Job Number: 2135576
Work Order Number: 2359274
Order Number: 690577 Rev. 1

Engineering Firm Designation: Project Number: 87311.021.01.0001

Site Data: 400 Main Street, Somers, Tolland County, CT
Latitude 41° 59' 1.48", Longitude -72° 27' 56.87"
187 Foot - Monopole Tower

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

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

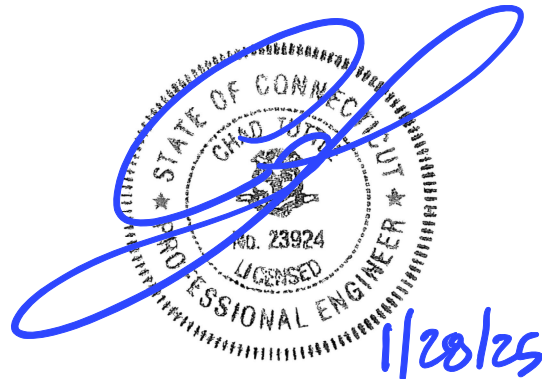
LC5: Proposed Equipment Configuration

Sufficient Capacity – 74.2%

This analysis utilizes an ultimate 3-second gust wind speed of 117 mph as required by the 2022 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Colton Jung

Respectfully submitted by: MTS Engineering, P.L.L.C.



Chad E. Tuttle, P.E.

tnxTower Report - version 8.2.4.3

TABLE OF CONTENTS

1) INTRODUCTION

2) ANALYSIS CRITERIA

Table 1 - Proposed Equipment Configuration

Table 2 - Other Considered Equipment

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

3.1) Analysis Method

3.2) Assumptions

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Table 5 – Tower Component Stresses vs. Capacity – LC5

4.1) Recommendations

5) APPENDIX A

tnxTower Output

6) APPENDIX B

Base Level Drawing

7) APPENDIX C

Additional Calculations

1) INTRODUCTION

This tower is a 187 ft. Monopole tower designed by Summit Manufacturing.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	117 mph
Exposure Category:	C
Topographic Factor:	1
Ice Thickness:	1.5 in
Wind Speed with Ice:	50 mph
Service Wind Speed:	60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
177.0	178.0	2	Antel	LPA-80063/4CF	1	1-5/8
		4	Antel	LPA-80080-4CF-EDIN-0		
		6	Commscope	NHH-65B-R2B		
		2	Kaelus	BSF0020F3V1		
		1	Raycap	RVZDC-6627-PF-48		
		6	Samsung Telecom.	MT6407-77A		
		3	Samsung Telecom.	RF4439D-25A		
		3	Samsung Telecom.	RF4440D-13A		
	177.0	1	--	Platform Mount [LP 1201-1_KCKR-HR-1]		

Table 2 - Other Considered Equipment

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
185.0	190.0	1	Andrew	DB404L-B	4 1	1-1/4 7/8
	187.0	3	Alcatel Lucent	TD-RRH8X20-25		
		3	RFS Celwave	APXVTM14-C-120		
	186.0	3	RFS Celwave	APXVSPP18-C-A20		
	185.0	1	--	Platform Mount [LP 1201-1]		
	183.0	9	RFS Celwave	ACU-A20-N		
182.0	182.0	3	Alcatel Lucent	800MHZ 2X50W RRH W/FILTER	--	--
		3	Alcatel Lucent	PCS 1900MHz 4x45W-65MHz		
		1	--	Side Arm Mount [SO 102-3]		
167.0	168.0	3	Ericsson	RADIO 4460 B2/B25 B66_20210820_TMO	3	1-5/8
		1	--	Side Arm Mount [SO 102-3]		
		6	--	L 2.5x2.5x3/16x6' Kicker		
	167.0	1	--	Platform Mount [LP 1201-1_HR-1]		
	166.0	3	Ericsson	AIR 6419 B41_TMO_CCIV2		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
		3	RFS Celwave	APXVAALL24_43-U-NA20_TMO		
	164.0	3	Ericsson	RADIO 4449 B71 B85A_T-MOBILE		
	159.5	6	--	L 2.5x2.5x3/16x5.25' Kicker		
	159.0	3	Ericsson	AIR 6419 B77G_CCIV3		
	158.5	6	--	L 2.5x2.5x3/16x6' Kicker		
		3	--	13' x 2.375" Upper Support Rail		
		3	Ericsson	RRUS 4449 B5/B12		
		3	Ericsson	RRUS 4478 B14_CCIV2	6	1-5/8
		3	Ericsson	RRUS 8843 B2/B66A_CCIV2	2	1-1/8
		2	Raycap	DC6-48-60-18-8F_CCIV2	3	7/8
		1	Raycap	DC9-48-60-24-8C-EV_CCIV2	2	13/16
		3	CCI Antennas	DMP65R-BU8D	3	3/8
		3	Quintel Tech.	QD8616-7		
		1	--	Sector Mount [SM 503-3]		
		1	--	Pipe Mount [PM 601-3]		
		3	Ericsson	AIR 6449 B77D_CCI4		
148.0	149.0	3	RFS Celwave	APXV18-206517S-C	6	1-5/8
	126.0	1	Sinclair	SD212-SF2P2SNM		
122.0	122.0	1	--	Side Arm Mount [SO 702-1]	1	7/8
114.0	114.0	1	Sinclair	SD110-SFXPASNM	1	1/2
		1	Telewave	ANT450D3		
81.0	81.0	1	--	Side Arm Mount [SO 309-1]	1	7/8
		1	Lucent	KS24019-L112A		
48.0	48.0	1	--	Side Arm Mount [SO 701-1]	1	1/2

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
Tower Manufacturer Drawing	419873	CCI Sites
Foundation Drawing	1058248	CCI Sites
Geotech Report	1095648	CCI Sites
Crown CAD Package	Date: 01/20/2025	CCI Sites

3.1) Analysis Method

tnxTower (version 8.2.4.3), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 standard.

3.2) Assumptions

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

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

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L1	187 - 136	Pole	TP36.201x26x0.25	1	-23.336	1708.402	57.4	Pass
L2	136 - 89.5	Pole	TP45.003x34.801x0.375	2	-35.390	3178.707	64.1	Pass
L3	89.5 - 44.25	Pole	TP53.304x43.103x0.438	3	-52.003	4394.155	68.3	Pass
L4	44.25 - 0	Pole	TP61.28x51.079x0.5	4	-76.435	5924.918	67.5	Pass
							Summary	
						Pole (L3)	68.3	Pass
						Rating =	68.3	Pass

Table 5 - Tower Component Stresses vs. Capacity – LC5

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1,2	Anchor Rods	Base	64.4	Pass
1,2	Base Plate	Base	45.7	Pass
1,2	Base Foundation (Structure)	Base	74.2	Pass
1,2	Base Foundation (Soil Interaction)	Base	55.3	Pass

Structure Rating (max from all components) =	74.2%
---	--------------

Notes:

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

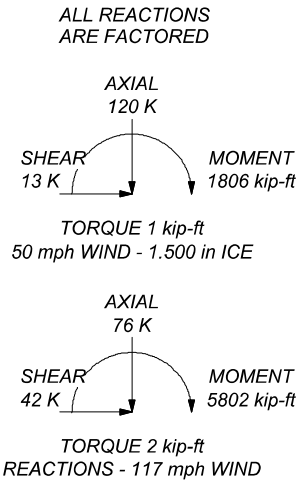
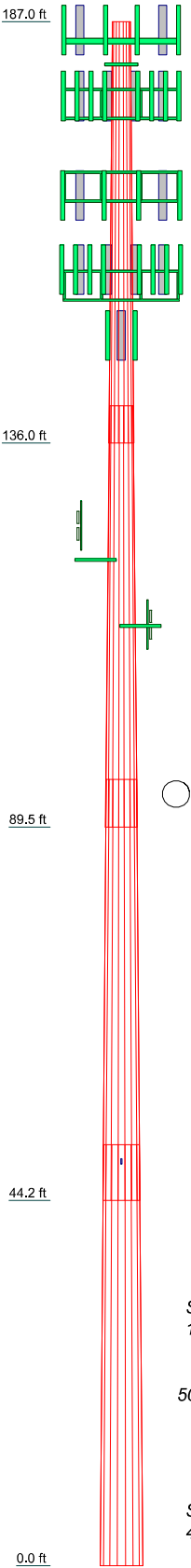
4.1) Recommendations

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

APPENDIX A

TNXTOWER OUTPUT

Section	1	2	3	4	
Length (ft)	51.000	51.000	51.000	51.000	
Number of Sides	18	18	18	18	
Thickness (in)	0.250	0.375	0.438	0.500	
Socket Length (ft)	4.500	5.750	6.750		
Top Dia (in)	26.000	34.801	43.103	51.079	
Bot Dia (in)	36.201	45.003	53.304	61.280	
Grade			A607-65		
Weight (K)	4.2	8.2	11.5	15.3	39.3




MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A607-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower is located in Tolland County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 117 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.000 ft
8. TIA-222-H Annex S
9. TOWER RATING: 68.3%



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

Job: **87311.021.01.0001 - CT SOMERS FD CAC, CT (BU# 80393)**

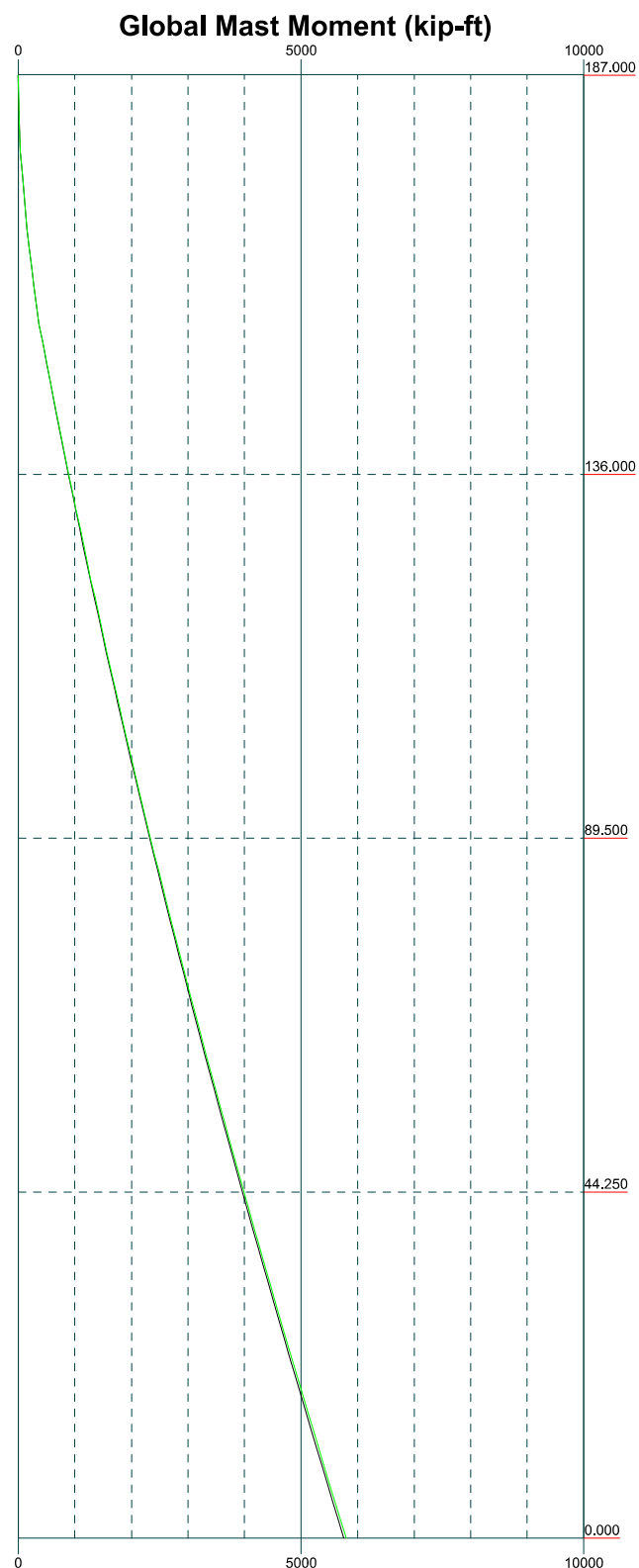
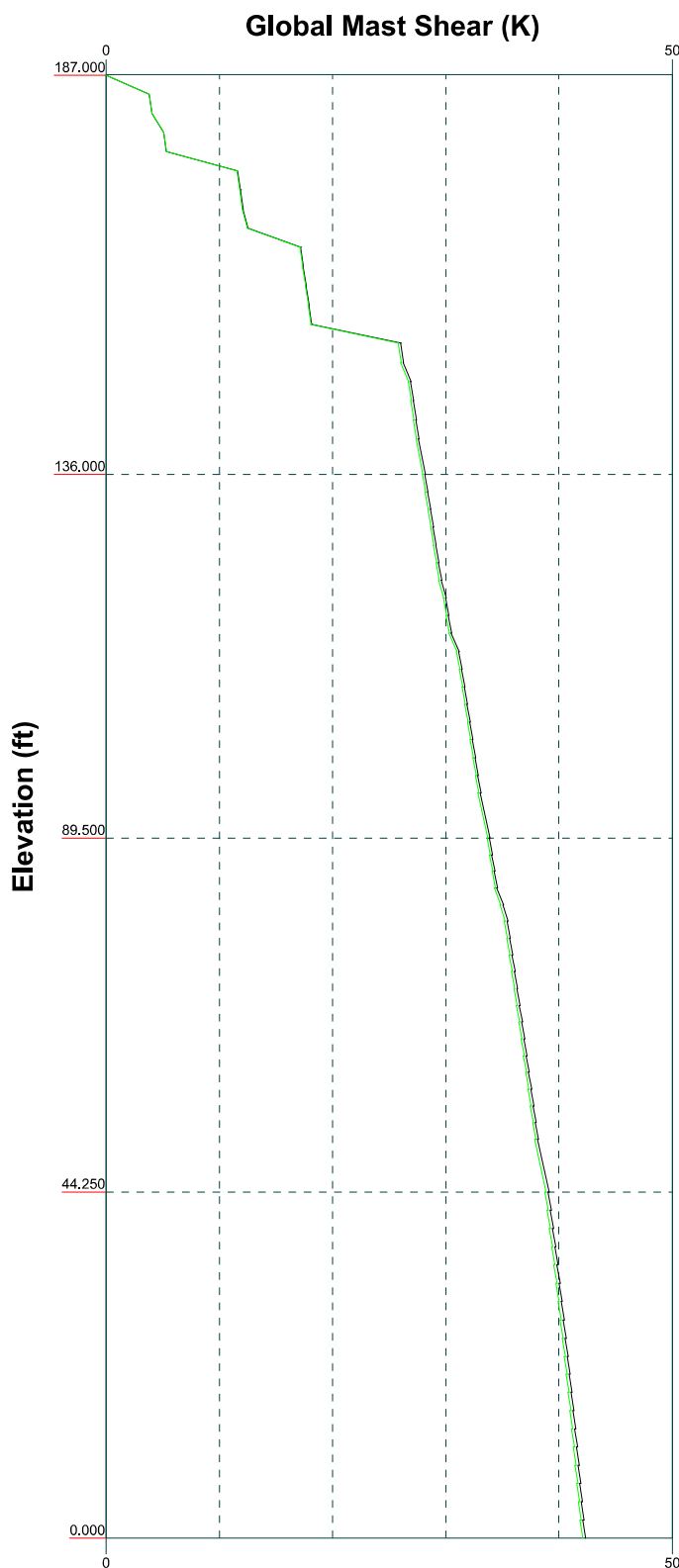
Project:	Client: Crown Castle	Drawn by: R AITHAL	App'd:
Code: TIA-222-H	Date: 01/24/25	Scale: NTS	
Path:		Dwg No. E-1	

Vx

Vz

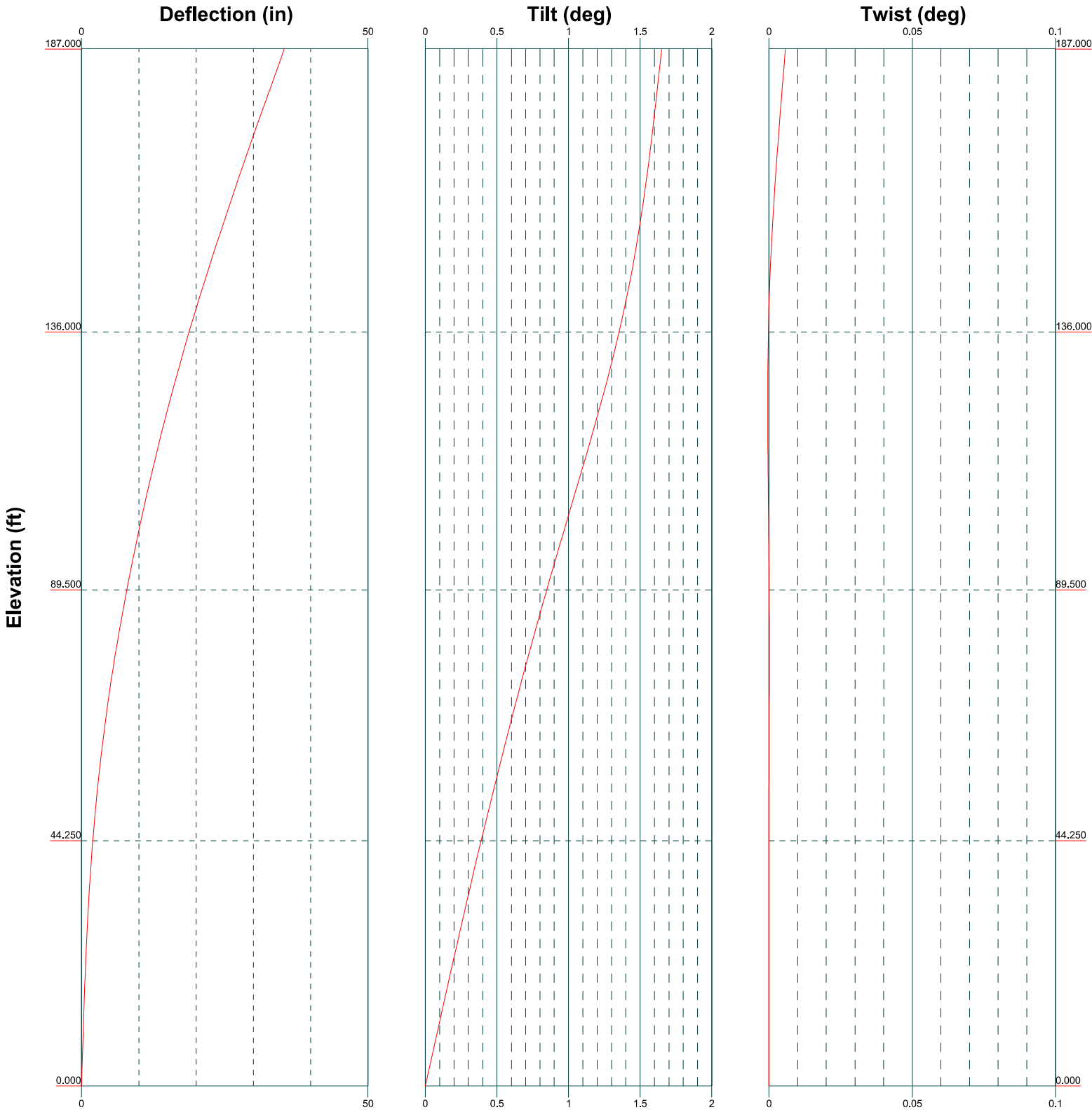
Mx

Mz



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

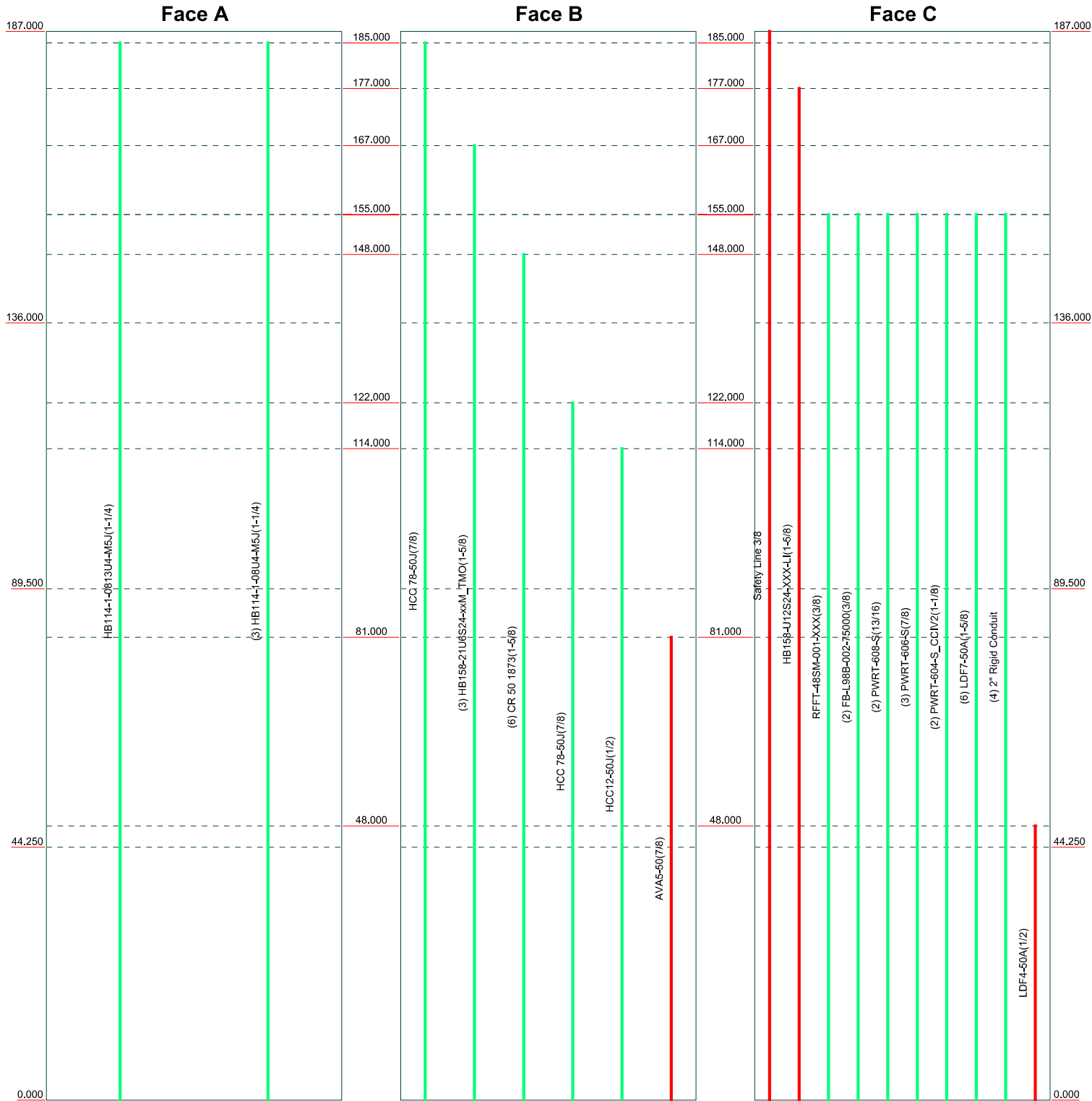
Job: 87311.021.01.0001 - CT SOMERS FD CAC, CT (BU# 80393)		
Project:		
Client: Crown Castle	Drawn by: R AITHAL	App'd:
Code: TIA-222-H	Date: 01/24/25	Scale: NTS
Path:	Dwg No. E-4	



Feed Line Distribution Chart 0' - 187'

Round Flat App In Face App Out Face Truss Leg

Elevation (ft)



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

Job: **87311.021.01.0001 - CT SOMERS FD CAC, CT (BU# 80393)**

Project:

Client: **Crown Castle** Drawn by: **R AITHAL** App'd:

Code: **TIA-222-H** Date: **01/24/25** Scale: **NTS**

Path: Dwg No. **E-7**

<i>tnxTower</i> <i>MTS Engineering, P.L.L.C.</i> 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 587-4630	Job	Page
	87311.021.01.0001 - CT SOMERS FD CAC, CT (BU# 803934)	1 of 22
	Project	Date
	Client	13:40:23 01/24/25
	Crown Castle	Designed by
		R AITHAL

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 Tolland County, Connecticut.
 Tower base elevation above sea level: 198.000 ft.
 Basic wind speed of 117 mph.
 Risk Category II.
 Exposure Category C.
 Simplified Topographic Factor Procedure for wind speed-up calculations is used.
 Topographic Category: 1.
 Crest Height: 0.000 ft.
 Nominal ice thickness of 1.500 in.
 Ice thickness is considered to increase with height.
 Ice density of 56.000 pcf.
 A wind speed of 50 mph is used in combination with ice.
 Temperature drop of 50.000 °F.
 Deflections calculated using a wind speed of 60 mph.
 TIA-222-H Annex S.
 A non-linear (P-delta) analysis was used.
 Pressures are calculated at each section.
 Stress ratio used in pole design is 1.
 Tower analysis based on target reliabilities in accordance with Annex S.
 Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
 Maximum demand-capacity ratio is: 1.05.
 Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

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

Tapered Pole Section Geometry

<i>tnxTower</i> <i>MTS Engineering, P.L.L.C.</i> 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 587-4630	Job	Page
	87311.021.01.0001 - CT SOMERS FD CAC, CT (BU# 803934)	2 of 22
	Project	Date
	Client	Designed by
	Crown Castle	R AITHAL

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	187.000-136.000	51.000	4.500	18	26.000	36.201	0.250	1.000	A607-65 (65 ksi)
L2	136.000-89.500	51.000	5.750	18	34.801	45.003	0.375	1.500	A607-65 (65 ksi)
L3	89.500-44.250	51.000	6.750	18	43.103	53.304	0.438	1.750	A607-65 (65 ksi)
L4	44.250-0.000	51.000		18	51.079	61.280	0.500	2.000	A607-65 (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	26.363	20.433	1711.654	9.141	13.208	129.592	3425.561	10.218	4.136	16.544
	36.721	28.527	4658.191	12.763	18.390	253.299	9322.512	14.266	5.931	23.726
L2	36.194	40.975	6135.246	12.221	17.679	347.039	12278.566	20.492	5.465	14.573
	45.639	53.118	13365.891	15.843	22.862	584.646	26749.369	26.564	7.261	19.361
L3	44.868	59.246	13625.291	15.146	21.896	622.267	27268.510	29.629	6.816	15.58
	54.059	73.412	25921.737	18.768	27.078	957.284	51877.583	36.713	8.612	19.683
L4	53.161	80.269	25943.042	17.955	25.948	999.807	51920.220	40.142	8.110	16.22
	62.148	96.458	45019.064	21.577	31.130	1446.152	90097.366	48.238	9.905	19.811

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A _f	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
ft	ft ²	in					in	in	in
L1 187.000-136.000				1	1	1			
L2 136.000-89.500				1	1	1			
L3 89.500-44.250				1	1	1			
L4 44.250-0.000				1	1	1			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight klf
Safety Line 3/8	C	No	Surface Ar (CaAa)	187.000 - 0.000	1	1	0.000 0.010	0.375		0.000
* HB158-U12S24-XXX-LI (1-5/8)	C	No	Surface Ar (CaAa)	177.000 - 0.000	1	1	0.330 0.380	1.976		0.003
* AVA5-50(7/8)	B	No	Surface Ar (CaAa)	81.000 - 0.000	1	1	-0.470 -0.450	1.102		0.000

<i>tnxTower</i> <i>MTS Engineering, P.L.L.C.</i> 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 587-4630	Job	Page
	87311.021.01.0001 - CT SOMERS FD CAC, CT (BU# 803934)	3 of 22
	Project	Date
	Client	Designed by
	Crown Castle	R AITHAL

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight klf
*										
LDF4-50A(1/2)	C	No	Surface Ar (CaAa)	48.000 - 0.000	1	1	0.240 0.260	0.630		0.000
*										

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C _A A _A ft ² /ft	Weight klf
*									
HB114-1-0813U4-M 5J(1-1/4)	A	No	No	Inside Pole	185.000 - 0.000	1	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.001 0.001 0.001 0.001
HB114-1-08U4-M5J (1-1/4)	A	No	No	Inside Pole	185.000 - 0.000	3	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.001 0.001 0.001 0.001
*									
HCC 78-50J(7/8)	B	No	No	Inside Pole	185.000 - 0.000	1	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.001 0.001 0.001 0.001
*									
HB158-21U6S24-xx M_TMO(1-5/8)	B	No	No	Inside Pole	167.000 - 0.000	3	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.003 0.003 0.003 0.003
*									
RFFT-48SM-001-X XX(3/8)	C	No	No	Inside Pole	155.000 - 0.000	1	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000
FB-L98B-002-75000 (3/8)	C	No	No	Inside Pole	155.000 - 0.000	2	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000
PWRT-608-S(13/16)	C	No	No	Inside Pole	155.000 - 0.000	2	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.001 0.001 0.001 0.001
PWRT-606-S(7/8)	C	No	No	Inside Pole	155.000 - 0.000	3	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.001 0.001 0.001 0.001
PWRT-604-S_CCIV 2(1-1/8)	C	No	No	Inside Pole	155.000 - 0.000	2	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.001 0.001 0.001 0.001
LDF7-50A(1-5/8)	C	No	No	Inside Pole	155.000 - 0.000	6	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.001 0.001 0.001 0.001
2" Rigid Conduit	C	No	No	Inside Pole	155.000 - 0.000	4	No Ice 1/2" Ice	0.000 0.000	0.003 0.003

<i>tnxTower</i> <i>MTS Engineering, P.L.L.C.</i> 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 587-4630	Job	Page
	87311.021.01.0001 - CT SOMERS FD CAC, CT (BU# 803934)	4 of 22
	Project	Date
	Client	Designed by
	Crown Castle	R AITHAL

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		$C_A A_A$ ft ² /ft	Weight klf
							1" Ice	0.000	0.003
							2" Ice	0.000	0.003
*									
CR 50 1873(1-5/8)	B	No	No	Inside Pole	148.000 - 0.000	6	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
							2" Ice	0.000	0.001
*									
HCC 78-50J(7/8)	B	No	No	Inside Pole	122.000 - 0.000	1	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
							2" Ice	0.000	0.001
*									
HCC12-50J(1/2)	B	No	No	Inside Pole	114.000 - 0.000	1	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
							2" Ice	0.000	0.000
*									

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight K
L1	187.000-136.000	A	0.000	0.000	0.000	0.000	0.218
		B	0.000	0.000	0.000	0.000	0.318
		C	0.000	0.000	10.014	0.000	0.574
L2	136.000-89.500	A	0.000	0.000	0.000	0.000	0.206
		B	0.000	0.000	0.000	0.000	0.628
		C	0.000	0.000	10.932	0.000	1.215
L3	89.500-44.250	A	0.000	0.000	0.000	0.000	0.201
		B	0.000	0.000	4.050	0.000	0.635
		C	0.000	0.000	10.875	0.000	1.183
L4	44.250-0.000	A	0.000	0.000	0.000	0.000	0.196
		B	0.000	0.000	4.876	0.000	0.623
		C	0.000	0.000	13.191	0.000	1.163

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	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight K
L1	187.000-136.000	A	1.493	0.000	0.000	0.000	0.000	0.218
		B		0.000	0.000	0.000	0.000	0.318
		C		0.000	0.000	37.491	0.000	1.007
L2	136.000-89.500	A	1.441	0.000	0.000	0.000	0.000	0.206
		B		0.000	0.000	0.000	0.000	0.628
		C		0.000	0.000	38.708	0.000	1.668
L3	89.500-44.250	A	1.368	0.000	0.000	0.000	0.000	0.201
		B		0.000	0.000	14.640	0.000	0.800
		C		0.000	0.000	38.035	0.000	1.613

tnxTower MTS Engineering, P.L.L.C. 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 587-4630	Job	Page
	87311.021.01.0001 - CT SOMERS FD CAC, CT (BU# 803934)	5 of 22
	Project	Date
		13:40:23 01/24/25
	Client	Designed by
	Crown Castle	R AITHAL

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	$C_A A_A$ In Face ft^2	$C_A A_A$ Out Face ft^2	Weight K
L4	44.250-0.000	A	1.227	0.000	0.000	0.000	0.000	0.196
		B		0.000	0.000	16.981	0.000	0.806
		C		0.000	0.000	49.504	0.000	1.687

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
L1	187.000-136.000	-0.869	1.221	-1.112	2.458
L2	136.000-89.500	-1.042	1.410	-1.378	2.797
L3	89.500-44.250	-0.984	0.740	-1.274	1.500
L4	44.250-0.000	-1.171	0.955	-1.781	2.182

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	136.00 - 187.00	1.0000	1.0000
L1	8	HB158-U12S24-XXX-LI(1-5/8)	136.00 - 177.00	1.0000	1.0000
L2	1	Safety Line 3/8	89.50 - 136.00	1.0000	1.0000
L2	8	HB158-U12S24-XXX-LI(1-5/8)	89.50 - 136.00	1.0000	1.0000
L3	1	Safety Line 3/8	44.25 - 89.50	1.0000	1.0000
L3	8	HB158-U12S24-XXX-LI(1-5/8)	44.25 - 89.50	1.0000	1.0000
L3	26	AVA5-50(7/8)	44.25 - 81.00	1.0000	1.0000
L3	28	LDF4-50A(1/2)	44.25 - 48.00	1.0000	1.0000
L4	1	Safety Line 3/8	0.00 - 44.25	1.0000	1.0000
L4	8	HB158-U12S24-XXX-LI(1-5/8)	0.00 - 44.25	1.0000	1.0000
L4	26	AVA5-50(7/8)	0.00 - 44.25	1.0000	1.0000
L4	28	LDF4-50A(1/2)	0.00 - 44.25	1.0000	1.0000

Discrete Tower Loads

<i>tnxTower</i> <i>MTS Engineering, P.L.L.C.</i> 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 587-4630	Job		Page
	87311.021.01.0001 - CT SOMERS FD CAC, CT (BU# 803934)		6 of 22
	Project		Date
	Crown Castle		13:40:23 01/24/25
	Client		Designed by
			R AITHAL

<i>Description</i>	<i>Face or Leg</i>	<i>Offset Type</i>	<i>Offsets: Horz Lateral Vert ft ft ft</i>	<i>Azimuth Adjustment °</i>	<i>Placement ft</i>		<i>C_{AA} Front ft²</i>	<i>C_{AA} Side ft²</i>	<i>Weight K</i>
Town of Somers									
DB404L-B	A	From Leg	1.000 0.000 5.000	0.000	185.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.140 2.052 2.964 4.788	1.140 2.052 2.964 4.788	0.014 0.018 0.022 0.031
3' x 2" Pipe Mount	A	From Leg	0.500 0.000 0.000	0.000	190.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.583 0.770 0.967 1.388	0.583 0.770 0.967 1.388	0.011 0.017 0.024 0.047
6' x 2" Mount Pipe	B	From Leg	0.500 0.000 0.000	0.000	190.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.425 1.925 2.294 3.060	1.425 1.925 2.294 3.060	0.022 0.033 0.048 0.090
*									
APXVSPP18-C-A20 w/ Mount Pipe	A	From Leg	4.000 0.000 1.000	0.000	185.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.601 5.045 5.500 6.442	4.011 4.448 4.894 5.819	0.095 0.160 0.235 0.419
APXVSPP18-C-A20 w/ Mount Pipe	B	From Leg	4.000 0.000 1.000	0.000	185.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.601 5.045 5.500 6.442	4.011 4.448 4.894 5.819	0.095 0.160 0.235 0.419
APXVSPP18-C-A20 w/ Mount Pipe	C	From Leg	4.000 0.000 1.000	0.000	185.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.601 5.045 5.500 6.442	4.011 4.448 4.894 5.819	0.095 0.160 0.235 0.419
APXVTM14-C-120 w/ Mount Pipe	A	From Leg	4.000 0.000 2.000	0.000	185.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.091 4.480 4.880 5.712	2.862 3.229 3.607 4.396	0.077 0.127 0.185 0.331
APXVTM14-C-120 w/ Mount Pipe	B	From Leg	4.000 0.000 2.000	0.000	185.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.091 4.480 4.880 5.712	2.862 3.229 3.607 4.396	0.077 0.127 0.185 0.331
APXVTM14-C-120 w/ Mount Pipe	C	From Leg	4.000 0.000 2.000	0.000	185.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.091 4.480 4.880 5.712	2.862 3.229 3.607 4.396	0.077 0.127 0.185 0.331
(3) ACU-A20-N	B	From Leg	4.000 0.000 -2.000	0.000	185.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.067 0.104 0.148 0.259	0.117 0.162 0.215 0.343	0.001 0.002 0.004 0.012
(3) ACU-A20-N	C	From Leg	4.000 0.000 -2.000	0.000	185.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.067 0.104 0.148 0.259	0.117 0.162 0.215 0.343	0.001 0.002 0.004 0.012
(3) ACU-A20-N	C	From Leg	4.000 0.000 -2.000	0.000	185.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.067 0.104 0.148 0.259	0.117 0.162 0.215 0.343	0.001 0.002 0.004 0.012
TD-RRH8X20-25	A	From Leg	4.000 0.000 2.000	0.000	185.000	No Ice 1/2" Ice 1" Ice 2" Ice	3.704 3.946 4.196 4.717	1.294 1.465 1.642 2.019	0.066 0.090 0.117 0.183
TD-RRH8X20-25	B	From Leg	4.000 0.000 2.000	0.000	185.000	No Ice 1/2" Ice 1" Ice	3.704 3.946 4.196	1.294 1.465 1.642	0.066 0.090 0.117

<i>tnxTower</i> <i>MTS Engineering, P.L.L.C.</i> 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 587-4630	Job	Page
	87311.021.01.0001 - CT SOMERS FD CAC, CT (BU# 803934)	7 of 22
	Project	Date
	Client	Designed by
	Crown Castle	R AITHAL

<i>Description</i>	<i>Face or Leg</i>	<i>Offset Type</i>	<i>Offsets: Horz Lateral Vert ft ft ft</i>	<i>Azimuth Adjustment °</i>	<i>Placement ft</i>	<i>C_AA_A Front ft²</i>	<i>C_AA_A Side ft²</i>	<i>Weight K</i>
TD-RRH8X20-25	C	From Leg	4.000 0.000 2.000	0.000	185.000	2" Ice 4.717 No Ice 3.704 1/2" Ice 3.946 1" Ice 4.196 2" Ice 4.717	2.019 1.294 1.465 1.642 2.019	0.183 0.066 0.090 0.117 0.183
(3) 7' x 2" Pipe Mount	A	From Leg	4.000 0.000 0.000	0.000	185.000	No Ice 1.663 1/2" Ice 2.391 1" Ice 2.825 2" Ice 3.706	1.663 2.391 2.825 3.706	0.026 0.038 0.055 0.105
(3) 7' x 2" Pipe Mount	B	From Leg	4.000 0.000 0.000	0.000	185.000	No Ice 1.663 1/2" Ice 2.391 1" Ice 2.825 2" Ice 3.706	1.663 2.391 2.825 3.706	0.026 0.038 0.055 0.105
(3) 7' x 2" Pipe Mount	C	From Leg	4.000 0.000 0.000	0.000	185.000	No Ice 1.663 1/2" Ice 2.391 1" Ice 2.825 2" Ice 3.706	1.663 2.391 2.825 3.706	0.026 0.038 0.055 0.105
Platform Mount [LP 1201-1]	C	None		0.000	185.000	No Ice 18.380 1/2" Ice 22.110 1" Ice 25.870 2" Ice 33.470	18.380 22.110 25.870 33.470	2.100 2.652 3.263 4.662
*								
PCS 1900MHz 4x45W-65MHz	A	From Leg	2.000 0.000 0.000	0.000	182.000	No Ice 2.322 1/2" Ice 2.527 1" Ice 2.739 2" Ice 3.185	2.238 2.441 2.651 3.093	0.060 0.083 0.110 0.173
PCS 1900MHz 4x45W-65MHz	B	From Leg	2.000 0.000 0.000	0.000	182.000	No Ice 2.322 1/2" Ice 2.527 1" Ice 2.739 2" Ice 3.185	2.238 2.441 2.651 3.093	0.060 0.083 0.110 0.173
PCS 1900MHz 4x45W-65MHz	C	From Leg	2.000 0.000 0.000	0.000	182.000	No Ice 2.322 1/2" Ice 2.527 1" Ice 2.739 2" Ice 3.185	2.238 2.441 2.651 3.093	0.060 0.083 0.110 0.173
800MHZ 2X50W RRH W/FILTER	A	From Leg	2.000 0.000 0.000	0.000	182.000	No Ice 2.058 1/2" Ice 2.240 1" Ice 2.429 2" Ice 2.829	1.932 2.109 2.293 2.684	0.064 0.086 0.111 0.172
800MHZ 2X50W RRH W/FILTER	B	From Leg	2.000 0.000 0.000	0.000	182.000	No Ice 2.058 1/2" Ice 2.240 1" Ice 2.429 2" Ice 2.829	1.932 2.109 2.293 2.684	0.064 0.086 0.111 0.172
800MHZ 2X50W RRH W/FILTER	C	From Leg	2.000 0.000 0.000	0.000	182.000	No Ice 2.058 1/2" Ice 2.240 1" Ice 2.429 2" Ice 2.829	1.932 2.109 2.293 2.684	0.064 0.086 0.111 0.172
3' x 2" Pipe Mount	A	From Leg	1.000 0.000 0.000	0.000	182.000	No Ice 0.583 1/2" Ice 0.770 1" Ice 0.967 2" Ice 1.388	0.583 0.770 0.967 1.388	0.011 0.017 0.024 0.047
3' x 2" Pipe Mount	B	From Leg	1.000 0.000 0.000	0.000	182.000	No Ice 0.583 1/2" Ice 0.770 1" Ice 0.967 2" Ice 1.388	0.583 0.770 0.967 1.388	0.011 0.017 0.024 0.047
3' x 2" Pipe Mount	C	From Leg	1.000 0.000 0.000	0.000	182.000	No Ice 0.583 1/2" Ice 0.770 1" Ice 0.967	0.583 0.770 0.967	0.011 0.017 0.024

<i>tnxTower</i> <i>MTS Engineering, P.L.L.C.</i> 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 587-4630	Job 87311.021.01.0001 - CT SOMERS FD CAC, CT (BU# 803934)	Page 8 of 22
	Project	Date 13:40:23 01/24/25
	Client Crown Castle	Designed by R AITHAL

<i>Description</i>	<i>Face or Leg</i>	<i>Offset Type</i>	<i>Offsets: Horz Lateral Vert ft ft ft</i>	<i>Azimuth Adjustment °</i>	<i>Placement ft</i>	<i>C_AA_A Front ft²</i>	<i>C_AA_A Side ft²</i>	<i>Weight K</i>
Side Arm Mount [SO 102-3]	C	None		0.000	182.000	2" Ice 1.388 No Ice 3.600 1/2" Ice 4.180 1" Ice 4.750 2" Ice 5.900	1.388 3.600 4.180 4.750 5.900	0.047 0.075 0.105 0.135 0.195
*								
(2) LPA-80080-4CF-EDIN-0 w/ Mount Pipe	A	From Leg	4.000 0.000 1.000	0.000	177.000	No Ice 2.042 1/2" Ice 2.422 1" Ice 2.816 2" Ice 3.647	5.219 5.666 6.128 7.093	0.042 0.084 0.134 0.258
(2) LPA-80080-4CF-EDIN-0 w/ Mount Pipe	B	From Leg	4.000 0.000 1.000	0.000	177.000	No Ice 2.042 1/2" Ice 2.422 1" Ice 2.816 2" Ice 3.647	5.219 5.666 6.128 7.093	0.042 0.084 0.134 0.258
(2) LPA-80063/4CF w/ Mount Pipe	C	From Leg	4.000 0.000 1.000	0.000	177.000	No Ice 4.310 1/2" Ice 4.680 1" Ice 5.060 2" Ice 5.860	4.350 4.720 5.100 5.900	0.050 0.112 0.182 0.349
(2) NHH-65B-R2B w/ Mount Pipe	A	From Leg	4.000 0.000 1.000	0.000	177.000	No Ice 4.095 1/2" Ice 4.483 1" Ice 4.880 2" Ice 5.701	3.295 3.672 4.058 4.857	0.069 0.132 0.205 0.385
(2) NHH-65B-R2B w/ Mount Pipe	B	From Leg	4.000 0.000 1.000	0.000	177.000	No Ice 4.095 1/2" Ice 4.483 1" Ice 4.880 2" Ice 5.701	3.295 3.672 4.058 4.857	0.069 0.132 0.205 0.385
(2) NHH-65B-R2B w/ Mount Pipe	C	From Leg	4.000 0.000 1.000	0.000	177.000	No Ice 4.095 1/2" Ice 4.483 1" Ice 4.880 2" Ice 5.701	3.295 3.672 4.058 4.857	0.069 0.132 0.205 0.385
(2) MT6407-77A	A	From Leg	4.000 0.000 1.000	0.000	177.000	No Ice 6.740 1/2" Ice 7.360 1" Ice 8.000 2" Ice 9.360	2.340 2.830 3.350 4.450	0.082 0.111 0.144 0.223
(2) MT6407-77A	B	From Leg	4.000 0.000 1.000	0.000	177.000	No Ice 6.740 1/2" Ice 7.360 1" Ice 8.000 2" Ice 9.360	2.340 2.830 3.350 4.450	0.082 0.111 0.144 0.223
(2) MT6407-77A	C	From Leg	4.000 0.000 1.000	0.000	177.000	No Ice 6.740 1/2" Ice 7.360 1" Ice 8.000 2" Ice 9.360	2.340 2.830 3.350 4.450	0.082 0.111 0.144 0.223
RF4439D-25A	A	From Leg	4.000 0.000 1.000	0.000	177.000	No Ice 1.865 1/2" Ice 2.035 1" Ice 2.212 2" Ice 2.589	1.252 1.394 1.544 1.866	0.075 0.093 0.114 0.165
RF4439D-25A	B	From Leg	4.000 0.000 1.000	0.000	177.000	No Ice 1.865 1/2" Ice 2.035 1" Ice 2.212 2" Ice 2.589	1.252 1.394 1.544 1.866	0.075 0.093 0.114 0.165
RF4439D-25A	C	From Leg	4.000 0.000 1.000	0.000	177.000	No Ice 1.865 1/2" Ice 2.035 1" Ice 2.212 2" Ice 2.589	1.252 1.394 1.544 1.866	0.075 0.093 0.114 0.165
RF4440D-13A	A	From Leg	4.000 0.000 1.000	0.000	177.000	No Ice 1.865 1/2" Ice 2.035 1" Ice 2.212	1.129 1.267 1.411	0.073 0.090 0.110

<i>tnxTower</i> <i>MTS Engineering, P.L.L.C.</i> 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 587-4630	Job 87311.021.01.0001 - CT SOMERS FD CAC, CT (BU# 803934)	Page 9 of 22
	Project	Date 13:40:23 01/24/25
	Client Crown Castle	Designed by R AITHAL

<i>Description</i>	<i>Face or Leg</i>	<i>Offset Type</i>	<i>Offsets: Horz Lateral Vert ft ft ft</i>	<i>Azimuth Adjustment °</i>	<i>Placement ft</i>		<i>C_AA_A Front ft²</i>	<i>C_AA_A Side ft²</i>	<i>Weight K</i>
RF4440D-13A	B	From Leg	4.000 0.000 1.000	0.000	177.000	2" Ice No Ice 1/2" Ice 1" Ice 2" Ice	2.589 1.865 2.035 2.212 2.589	1.723 1.129 1.267 1.411 1.723	0.159 0.073 0.090 0.110 0.159
RF4440D-13A	C	From Leg	4.000 0.000 1.000	0.000	177.000	2" Ice No Ice 1/2" Ice 1" Ice 2" Ice	2.589 1.865 2.035 2.212 2.589	1.723 1.129 1.267 1.411 1.723	0.159 0.073 0.090 0.110 0.159
RVZDC-6627-PF-48	A	From Leg	4.000 0.000 1.000	0.000	177.000	2" Ice No Ice 1/2" Ice 1" Ice 2" Ice	2.589 3.792 4.044 4.303 4.844	1.723 2.514 2.727 2.947 3.417	0.159 0.032 0.063 0.099 0.181
BSF0020F3V1	A	From Leg	4.000 0.000 1.000	0.000	177.000	2" Ice No Ice 1/2" Ice 1" Ice 2" Ice	1.500 0.963 1.086 1.217 1.500	0.643 0.287 0.364 0.449 0.643	0.056 0.018 0.024 0.033 0.056
BSF0020F3V1	B	From Leg	4.000 0.000 1.000	0.000	177.000	2" Ice No Ice 1/2" Ice 1" Ice 2" Ice	1.500 0.963 1.086 1.217 1.500	0.643 0.287 0.364 0.449 0.643	0.056 0.018 0.024 0.033 0.056
7' x 2" Pipe Mount	A	From Leg	4.000 0.000 0.000	0.000	177.000	2" Ice No Ice 1/2" Ice 1" Ice 2" Ice	3.706 1.663 2.391 2.825 3.706	3.706 1.663 2.391 2.825 3.706	0.105 0.026 0.038 0.055 0.105
7' x 2" Pipe Mount	B	From Leg	4.000 0.000 0.000	0.000	177.000	2" Ice No Ice 1/2" Ice 1" Ice 2" Ice	3.706 1.663 2.391 2.825 3.706	3.706 1.663 2.391 2.825 3.706	0.105 0.026 0.038 0.055 0.105
7' x 2" Pipe Mount	C	From Leg	4.000 0.000 0.000	0.000	177.000	2" Ice No Ice 1/2" Ice 1" Ice 2" Ice	3.706 1.663 2.391 2.825 3.706	3.706 1.663 2.391 2.825 3.706	0.105 0.026 0.038 0.055 0.105
Platform Mount [LP 1201-1_KCKR-HR-1]	C	None		0.000	177.000	2" Ice No Ice 1/2" Ice 1" Ice 2" Ice	3.706 37.610 45.620 53.590 69.650	3.706 37.610 45.620 53.590 69.650	0.105 2.631 3.478 4.462 6.848
*									
APXVAALL24_43-U-NA20 _TMO w/ Mount Pipe	A	From Leg	4.000 0.000 -1.000	0.000	167.000	2" Ice No Ice 1/2" Ice 1" Ice 2" Ice	17.816 14.694 15.455 16.230 17.816	9.670 6.873 7.554 8.247 9.670	0.782 0.183 0.311 0.453 0.782
APXVAALL24_43-U-NA20 _TMO w/ Mount Pipe	B	From Leg	4.000 0.000 -1.000	0.000	167.000	2" Ice No Ice 1/2" Ice 1" Ice 2" Ice	17.816 14.694 15.455 16.230 17.816	9.670 6.873 7.554 8.247 9.670	0.782 0.183 0.311 0.453 0.782
APXVAALL24_43-U-NA20 _TMO w/ Mount Pipe	C	From Leg	4.000 0.000 -1.000	0.000	167.000	2" Ice No Ice 1/2" Ice 1" Ice 2" Ice	17.816 14.694 15.455 16.230 17.816	9.670 6.873 7.554 8.247 9.670	0.782 0.183 0.311 0.453 0.782
AIR 6419 B41_TMO_CCIV2 w/ Mount Pipe	A	From Leg	4.000 0.000 -1.000	0.000	167.000	2" Ice No Ice 1/2" Ice 1" Ice 2" Ice	17.816 5.790 6.240 6.710 7.710	9.670 2.970 3.340 3.730 4.560	0.782 0.096 0.141 0.194 0.321
AIR 6419 B41_TMO_CCIV2 w/ Mount Pipe	B	From Leg	4.000 0.000 -1.000	0.000	167.000	2" Ice No Ice 1/2" Ice 1" Ice	7.710 5.790 6.240 6.710	4.560 2.970 3.340 3.730	0.321 0.096 0.141 0.194

<i>tnxTower</i> <i>MTS Engineering, P.L.L.C.</i> 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 587-4630	Job		Page
	87311.021.01.0001 - CT SOMERS FD CAC, CT (BU# 803934)		10 of 22
	Project		Date
	Client		Designed by
	Crown Castle		R AITHAL

<i>Description</i>	<i>Face or Leg</i>	<i>Offset Type</i>	<i>Offsets: Horz Lateral Vert ft ft ft</i>	<i>Azimuth Adjustment °</i>	<i>Placement ft</i>	<i>C_AA_A Front ft²</i>	<i>C_AA_A Side ft²</i>	<i>Weight K</i>
AIR 6419 B41_TMO_CCIV2 w/ Mount Pipe	C	From Leg	4.000 0.000 -1.000	0.000	167.000	2" Ice 7.710 No Ice 5.790 1/2" Ice 6.240 1" Ice 6.710 2" Ice 7.710	4.560 2.970 3.340 3.730 4.560	0.321 0.096 0.141 0.194 0.321
RADIO 4460 B2/B25 B66_20210820_TMO	A	From Leg	4.000 0.000 1.000	0.000	167.000	No Ice 2.594 1/2" Ice 2.795 1" Ice 3.003 2" Ice 3.442	2.003 2.184 2.372 2.771	0.109 0.135 0.164 0.232
RADIO 4460 B2/B25 B66_20210820_TMO	B	From Leg	4.000 0.000 1.000	0.000	167.000	No Ice 2.594 1/2" Ice 2.795 1" Ice 3.003 2" Ice 3.442	2.003 2.184 2.372 2.771	0.109 0.135 0.164 0.232
RADIO 4460 B2/B25 B66_20210820_TMO	C	From Leg	4.000 0.000 1.000	0.000	167.000	No Ice 2.594 1/2" Ice 2.795 1" Ice 3.003 2" Ice 3.442	2.003 2.184 2.372 2.771	0.109 0.135 0.164 0.232
RADIO 4449 B71 B85A_T-MOBILE	A	From Leg	4.000 0.000 -3.000	0.000	167.000	No Ice 1.970 1/2" Ice 2.147 1" Ice 2.331 2" Ice 2.721	1.587 1.749 1.918 2.280	0.073 0.093 0.116 0.170
RADIO 4449 B71 B85A_T-MOBILE	B	From Leg	4.000 0.000 -3.000	0.000	167.000	No Ice 1.970 1/2" Ice 2.147 1" Ice 2.331 2" Ice 2.721	1.587 1.749 1.918 2.280	0.073 0.093 0.116 0.170
RADIO 4449 B71 B85A_T-MOBILE	C	From Leg	4.000 0.000 -3.000	0.000	167.000	No Ice 1.970 1/2" Ice 2.147 1" Ice 2.331 2" Ice 2.721	1.587 1.749 1.918 2.280	0.073 0.093 0.116 0.170
7' x 2" Pipe Mount	A	From Leg	4.000 0.000 0.000	0.000	167.000	No Ice 1.663 1/2" Ice 2.391 1" Ice 2.825 2" Ice 3.706	1.663 2.391 2.825 3.706	0.026 0.038 0.055 0.105
7' x 2" Pipe Mount	B	From Leg	4.000 0.000 0.000	0.000	167.000	No Ice 1.663 1/2" Ice 2.391 1" Ice 2.825 2" Ice 3.706	1.663 2.391 2.825 3.706	0.026 0.038 0.055 0.105
7' x 2" Pipe Mount	C	From Leg	4.000 0.000 0.000	0.000	167.000	No Ice 1.663 1/2" Ice 2.391 1" Ice 2.825 2" Ice 3.706	1.663 2.391 2.825 3.706	0.026 0.038 0.055 0.105
(2) L 2.5x2.5x3/16x6' Kicker	A	From Leg	3.000 0.000 1.000	0.000	167.000	No Ice 1.500 1/2" Ice 1.918 1" Ice 2.343 2" Ice 3.215	0.005 0.024 0.049 0.123	0.025 0.034 0.048 0.091
(2) L 2.5x2.5x3/16x6' Kicker	B	From Leg	3.000 0.000 1.000	0.000	167.000	No Ice 1.500 1/2" Ice 1.918 1" Ice 2.343 2" Ice 3.215	0.005 0.024 0.049 0.123	0.025 0.034 0.048 0.091
(2) L 2.5x2.5x3/16x6' Kicker	C	From Leg	3.000 0.000 1.000	0.000	167.000	No Ice 1.500 1/2" Ice 1.918 1" Ice 2.343 2" Ice 3.215	0.005 0.024 0.049 0.123	0.025 0.034 0.048 0.091
Side Arm Mount [SO 102-3]	C	None		0.000	168.000	No Ice 3.600 1/2" Ice 4.180 1" Ice 4.750 2" Ice 5.900	3.600 4.180 4.750 5.900	0.075 0.105 0.135 0.195

<i>tnxTower</i> <i>MTS Engineering, P.L.L.C.</i> 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 587-4630	Job	Page
	87311.021.01.0001 - CT SOMERS FD CAC, CT (BU# 803934)	11 of 22
	Project	Date
	Client	Designed by
	Crown Castle	R AITHAL

<i>Description</i>	<i>Face or Leg</i>	<i>Offset Type</i>	<i>Offsets: Horz Lateral Vert ft ft ft</i>	<i>Azimuth Adjustment °</i>	<i>Placement ft</i>		<i>C_AA_A Front ft²</i>	<i>C_AA_A Side ft²</i>	<i>Weight K</i>
Platform Mount [LP 1201-1_HR-1]	C	None		0.000	167.000	No Ice	26.390	26.390	2.356
						1/2" Ice	31.400	31.400	3.061
						1" Ice	36.200	36.200	3.864
						2" Ice	45.400	45.400	5.764
*									
QD8616-7 w/ Mount Pipe	A	From Leg	4.000	0.000	155.000	No Ice	16.926	9.311	0.183
			0.000			1/2" Ice	17.869	10.174	0.308
			2.000			1" Ice	18.828	11.054	0.448
						2" Ice	20.793	12.860	0.772
QD8616-7 w/ Mount Pipe	B	From Leg	4.000	0.000	155.000	No Ice	16.926	9.311	0.183
			0.000			1/2" Ice	17.869	10.174	0.308
			2.000			1" Ice	18.828	11.054	0.448
						2" Ice	20.793	12.860	0.772
QD8616-7 w/ Mount Pipe	C	From Leg	4.000	0.000	155.000	No Ice	16.926	9.311	0.183
			0.000			1/2" Ice	17.869	10.174	0.308
			2.000			1" Ice	18.828	11.054	0.448
						2" Ice	20.793	12.860	0.772
AIR 6419 B77G_CCIV3 w/ Mount Pipe	A	From Leg	4.000	0.000	155.000	No Ice	3.791	2.147	0.069
			0.000			1/2" Ice	4.143	2.446	0.104
			4.000			1" Ice	4.509	2.759	0.146
						2" Ice	5.285	3.430	0.250
AIR 6419 B77G_CCIV3 w/ Mount Pipe	B	From Leg	4.000	0.000	155.000	No Ice	3.791	2.147	0.069
			0.000			1/2" Ice	4.143	2.446	0.104
			4.000			1" Ice	4.509	2.759	0.146
						2" Ice	5.285	3.430	0.250
AIR 6419 B77G_CCIV3 w/ Mount Pipe	C	From Leg	4.000	0.000	155.000	No Ice	3.791	2.147	0.069
			0.000			1/2" Ice	4.143	2.446	0.104
			4.000			1" Ice	4.509	2.759	0.146
						2" Ice	5.285	3.430	0.250
AIR 6449 B77D_CC14 w/ Mount Pipe	A	From Leg	4.000	0.000	155.000	No Ice	3.650	2.720	0.110
			0.000			1/2" Ice	3.990	3.030	0.150
			-1.000			1" Ice	4.350	3.360	0.196
						2" Ice	5.110	4.050	0.310
AIR 6449 B77D_CC14 w/ Mount Pipe	B	From Leg	4.000	0.000	155.000	No Ice	3.650	2.720	0.110
			0.000			1/2" Ice	3.990	3.030	0.150
			-1.000			1" Ice	4.350	3.360	0.196
						2" Ice	5.110	4.050	0.310
AIR 6449 B77D_CC14 w/ Mount Pipe	C	From Leg	4.000	0.000	155.000	No Ice	3.650	2.720	0.110
			0.000			1/2" Ice	3.990	3.030	0.150
			-1.000			1" Ice	4.350	3.360	0.196
						2" Ice	5.110	4.050	0.310
DMP65R-BU8D w/ Mount Pipe	A	From Leg	4.000	0.000	155.000	No Ice	15.886	7.889	0.139
			0.000			1/2" Ice	16.815	8.735	0.252
			2.000			1" Ice	17.760	9.597	0.380
						2" Ice	19.697	11.367	0.679
DMP65R-BU8D w/ Mount Pipe	B	From Leg	4.000	0.000	155.000	No Ice	15.886	7.889	0.139
			0.000			1/2" Ice	16.815	8.735	0.252
			2.000			1" Ice	17.760	9.597	0.380
						2" Ice	19.697	11.367	0.679
DMP65R-BU8D w/ Mount Pipe	C	From Leg	4.000	0.000	155.000	No Ice	15.886	7.889	0.139
			0.000			1/2" Ice	16.815	8.735	0.252
			2.000			1" Ice	17.760	9.597	0.380
						2" Ice	19.697	11.367	0.679
RRUS 8843	A	From Leg	4.000	0.000	155.000	No Ice	1.980	1.695	0.075
B2/B66A_CCIV2			0.000			1/2" Ice	2.157	1.861	0.096
			3.000			1" Ice	2.341	2.035	0.119
						2" Ice	2.733	2.405	0.176

<i>tnxTower</i> <i>MTS Engineering, P.L.L.C.</i> 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 587-4630	Job	Page
	87311.021.01.0001 - CT SOMERS FD CAC, CT (BU# 803934)	12 of 22
	Project	Date
	Client	Designed by
	Crown Castle	R AITHAL

<i>Description</i>	<i>Face or Leg</i>	<i>Offset Type</i>	<i>Offsets: Horz Lateral Vert ft ft ft</i>	<i>Azimuth Adjustment °</i>	<i>Placement ft</i>		<i>C_AA_A Front ft²</i>	<i>C_AA_A Side ft²</i>	<i>Weight K</i>
RRUS 8843	B	From Leg	4.000	0.000	155.000	No Ice	1.980	1.695	0.075
B2/B66A_CCIV2			0.000			1/2" Ice	2.157	1.861	0.096
			3.000			1" Ice	2.341	2.035	0.119
						2" Ice	2.733	2.405	0.176
RRUS 8843	C	From Leg	4.000	0.000	155.000	No Ice	1.980	1.695	0.075
B2/B66A_CCIV2			0.000			1/2" Ice	2.157	1.861	0.096
			3.000			1" Ice	2.341	2.035	0.119
						2" Ice	2.733	2.405	0.176
RRUS 4449 B5/B12	A	From Leg	4.000	0.000	155.000	No Ice	1.968	1.408	0.071
			0.000			1/2" Ice	2.144	1.564	0.090
			3.000			1" Ice	2.328	1.727	0.111
						2" Ice	2.718	2.075	0.163
RRUS 4449 B5/B12	B	From Leg	4.000	0.000	155.000	No Ice	1.968	1.408	0.071
			0.000			1/2" Ice	2.144	1.564	0.090
			3.000			1" Ice	2.328	1.727	0.111
						2" Ice	2.718	2.075	0.163
RRUS 4449 B5/B12	C	From Leg	4.000	0.000	155.000	No Ice	1.968	1.408	0.071
			0.000			1/2" Ice	2.144	1.564	0.090
			3.000			1" Ice	2.328	1.727	0.111
						2" Ice	2.718	2.075	0.163
RRUS 4478 B14_CCIV2	A	From Leg	4.000	0.000	155.000	No Ice	2.021	1.246	0.059
			0.000			1/2" Ice	2.200	1.396	0.077
			3.000			1" Ice	2.386	1.554	0.097
						2" Ice	2.780	1.891	0.147
RRUS 4478 B14_CCIV2	B	From Leg	4.000	0.000	155.000	No Ice	2.021	1.246	0.059
			0.000			1/2" Ice	2.200	1.396	0.077
			3.000			1" Ice	2.386	1.554	0.097
						2" Ice	2.780	1.891	0.147
RRUS 4478 B14_CCIV2	C	From Leg	4.000	0.000	155.000	No Ice	2.021	1.246	0.059
			0.000			1/2" Ice	2.200	1.396	0.077
			3.000			1" Ice	2.386	1.554	0.097
						2" Ice	2.780	1.891	0.147
(2) DC6-48-60-18-8F_CCIV2	A	From Leg	4.000	0.000	155.000	No Ice	2.901	4.818	0.033
			0.000			1/2" Ice	3.130	5.098	0.071
			3.000			1" Ice	3.366	5.385	0.114
						2" Ice	3.863	5.983	0.212
DC9-48-60-24-8C-EV_CCIV 2	C	From Leg	4.000	0.000	155.000	No Ice	2.736	2.736	0.016
			0.000			1/2" Ice	2.962	2.962	0.042
			3.000			1" Ice	3.195	3.195	0.071
						2" Ice	3.683	3.683	0.142
13' x 2.375" Upper Support Rail	A	From Leg	4.000	0.000	155.000	No Ice	3.090	0.010	0.048
			0.000			1/2" Ice	4.420	0.050	0.071
			3.000			1" Ice	5.770	0.100	0.102
						2" Ice	8.510	0.240	0.190
13' x 2.375" Upper Support Rail	B	From Leg	4.000	0.000	155.000	No Ice	3.090	0.010	0.048
			0.000			1/2" Ice	4.420	0.050	0.071
			3.000			1" Ice	5.770	0.100	0.102
						2" Ice	8.510	0.240	0.190
13' x 2.375" Upper Support Rail	C	From Leg	4.000	0.000	155.000	No Ice	3.090	0.010	0.048
			0.000			1/2" Ice	4.420	0.050	0.071
			3.000			1" Ice	5.770	0.100	0.102
						2" Ice	8.510	0.240	0.190
7"X2" Horizontal Pipe	A	From Leg	2.000	0.000	155.000	No Ice	1.330	0.010	0.019
			0.000			1/2" Ice	2.050	0.040	0.290
			0.000			1" Ice	2.640	0.090	0.044
						2" Ice	3.520	0.210	0.089
7"X2" Horizontal Pipe	B	From Leg	2.000	0.000	155.000	No Ice	1.330	0.010	0.019

<i>tnxTower</i> <i>MTS Engineering, P.L.L.C.</i> 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 587-4630	Job 87311.021.01.0001 - CT SOMERS FD CAC, CT (BU# 803934)	Page 13 of 22
	Project	Date 13:40:23 01/24/25
	Client Crown Castle	Designed by R AITHAL

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K	
7'X2" Horizontal Pipe	C	From Leg	0.000	0.000	155.000	1/2" Ice	2.050	0.040	0.290
			0.000			1" Ice	2.640	0.090	0.044
						2" Ice	3.520	0.210	0.089
						No Ice	1.330	0.010	0.019
			0.000			1/2" Ice	2.050	0.040	0.290
			0.000			1" Ice	2.640	0.090	0.044
6' x 2" Mount Pipe	A	From Leg		0.000	155.000	2" Ice	3.520	0.210	0.089
			1.000			No Ice	1.425	1.425	0.022
			0.000			1/2" Ice	1.925	1.925	0.033
			0.000			1" Ice	2.294	2.294	0.048
						2" Ice	3.060	3.060	0.090
			1.000			No Ice	1.425	1.425	0.022
6' x 2" Mount Pipe	B	From Leg		0.000	155.000	1/2" Ice	1.925	1.925	0.033
			0.000			1" Ice	2.294	2.294	0.048
			0.000			2" Ice	3.060	3.060	0.090
						No Ice	1.425	1.425	0.022
			1.000			1/2" Ice	1.925	1.925	0.033
			0.000			1" Ice	2.294	2.294	0.048
6' x 2" Mount Pipe	C	From Leg		0.000	155.000	2" Ice	3.060	3.060	0.090
			1.000			No Ice	1.425	1.425	0.022
			0.000			1/2" Ice	1.925	1.925	0.033
			0.000			1" Ice	2.294	2.294	0.048
						2" Ice	3.060	3.060	0.090
			1.000			No Ice	1.425	1.425	0.022
(2) L 2.5x2.5x3/16x6' Kicker	A	From Leg		0.000	155.000	1/2" Ice	1.925	1.925	0.033
			3.000			1" Ice	2.294	2.294	0.048
			0.000			2" Ice	3.060	3.060	0.090
						No Ice	1.500	0.005	0.025
			3.500			1/2" Ice	1.918	0.024	0.034
						1" Ice	2.343	0.049	0.048
(2) L 2.5x2.5x3/16x6' Kicker	B	From Leg		0.000	155.000	2" Ice	3.215	0.123	0.091
			3.000			No Ice	1.500	0.005	0.025
			0.000			1/2" Ice	1.918	0.024	0.034
			3.500			1" Ice	2.343	0.049	0.048
						2" Ice	3.215	0.123	0.091
			3.000			No Ice	1.500	0.005	0.025
(2) L 2.5x2.5x3/16x6' Kicker	C	From Leg		0.000	155.000	1/2" Ice	1.918	0.024	0.034
			0.000			1" Ice	2.343	0.049	0.048
			3.500			2" Ice	3.215	0.123	0.091
						No Ice	1.500	0.005	0.025
			3.000			1/2" Ice	1.918	0.024	0.034
			0.000			1" Ice	2.343	0.049	0.048
(2) L 2.5x2.5x3/16x5.25' Kicker	A	From Leg		0.000	155.000	2" Ice	3.215	0.123	0.091
			3.000			No Ice	1.500	0.005	0.025
			0.000			1/2" Ice	1.918	0.024	0.034
			4.500			1" Ice	2.343	0.049	0.048
						2" Ice	3.215	0.123	0.091
			3.000			No Ice	1.500	0.005	0.025
(2) L 2.5x2.5x3/16x5.25' Kicker	B	From Leg		0.000	155.000	1/2" Ice	1.918	0.024	0.034
			3.000			1" Ice	2.343	0.049	0.048
			0.000			2" Ice	3.215	0.123	0.091
			4.500			No Ice	1.500	0.005	0.025
						1/2" Ice	1.918	0.024	0.034
			3.000			1" Ice	2.343	0.049	0.048
(2) L 2.5x2.5x3/16x5.25' Kicker	C	From Leg		0.000	155.000	2" Ice	3.215	0.123	0.091
			3.000			No Ice	1.500	0.005	0.025
			0.000			1/2" Ice	1.918	0.024	0.034
			4.500			1" Ice	2.343	0.049	0.048
						2" Ice	3.215	0.123	0.091
			3.000			No Ice	1.500	0.005	0.025
Pipe Mount [PM 601-3]	C	None		0.000	155.000	1/2" Ice	3.170	3.170	0.195
						No Ice	3.170	3.170	0.195
						1/2" Ice	3.790	3.790	0.232
						1" Ice	4.420	4.420	0.279
						2" Ice	5.760	5.760	0.401
						No Ice	30.430	30.430	1.690
Sector Mount [SM 503-3]	C	None		0.000	155.000	1/2" Ice	43.020	43.020	2.296
						1" Ice	55.430	55.430	3.097
						2" Ice	79.890	79.890	5.269
						No Ice	3.790	3.160	0.053
						1/2" Ice	4.380	3.750	0.094
						1" Ice	4.990	4.350	0.145
APXV18-206517S-C w/ Mount Pipe	A	From Leg		0.000	148.000	2" Ice	6.250	5.590	0.281
						No Ice	3.790	3.160	0.053
						1/2" Ice	4.380	3.750	0.094
						1" Ice	4.990	4.350	0.145
						2" Ice	6.250	5.590	0.281
						No Ice	3.790	3.160	0.053
APXV18-206517S-C w/ Mount Pipe	B	From Leg		0.000	148.000	1/2" Ice	4.380	3.750	0.094
						1" Ice	4.990	4.350	0.145
						2" Ice	6.250	5.590	0.281
						No Ice	3.790	3.160	0.053
						1/2" Ice	4.380	3.750	0.094
						1" Ice	4.990	4.350	0.145

<i>tnxTower</i> <i>MTS Engineering, P.L.L.C.</i> 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 587-4630	Job	Page
	87311.021.01.0001 - CT SOMERS FD CAC, CT (BU# 803934)	15 of 22
	Project	Date
	Client	13:40:23 01/24/25
	Crown Castle	Designed by
		R AITHAL

Load Combinations

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

Maximum Member Forces

<i>tnxTower</i> <i>MTS Engineering, P.L.L.C.</i> 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 587-4630	Job	Page
	87311.021.01.0001 - CT SOMERS FD CAC, CT (BU# 803934)	16 of 22
	Project	Date
	Client	Designed by
	Crown Castle	R AITHAL

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	187 - 136	Pole	Max Tension	3	0.000	0.001	-0.000
			Max. Compression	26	-54.255	0.935	1.140
			Max. Mx	20	-23.343	771.437	-3.555
			Max. My	2	-23.381	-3.706	766.860
			Max. Vy	20	-27.635	771.437	-3.555
			Max. Vx	2	-27.422	-3.706	766.860
			Max. Torque	8			2.448
L2	136 - 89.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-70.215	0.867	-0.915
			Max. Mx	20	-35.394	2145.704	-8.116
			Max. My	14	-35.420	7.929	-2131.846
			Max. Vy	20	-33.109	2145.704	-8.116
			Max. Vx	14	32.915	7.929	-2131.846
			Max. Torque	8			2.444
L3	89.5 - 44.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-90.978	0.590	-1.074
			Max. Mx	20	-52.004	3731.130	-11.580
			Max. My	14	-52.021	11.553	-3706.808
			Max. Vy	20	-38.213	3731.130	-11.580
			Max. Vx	2	-37.964	-11.508	3706.757
			Max. Torque	8			1.885
L4	44.25 - 0	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-120.099	0.126	-2.238
			Max. Mx	8	-76.435	-5798.144	15.309
			Max. My	14	-76.435	15.539	-5760.051
			Max. Vy	8	42.382	-5798.144	15.309
			Max. Vx	14	42.113	15.539	-5760.051
			Max. Torque	8			2.134

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	36	120.099	12.637	-0.011
	Max. H _x	20	76.466	42.324	-0.076
	Max. H _z	3	57.350	-0.076	42.056
	Max. M _x	2	5759.635	-0.076	42.056
	Max. M _z	8	5798.144	-42.324	0.076
	Max. Torsion	8	2.132	-42.324	0.076
	Min. Vert	25	57.350	21.096	36.383
	Min. H _x	8	76.466	-42.324	0.076
	Min. H _z	15	57.350	0.076	-42.056
	Min. M _x	14	-5760.051	0.076	-42.056
	Min. M _z	20	-5798.104	42.324	-0.076
	Min. Torsion	20	-2.127	42.324	-0.076

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	63.722	0.000	0.000	0.180	-0.020	0.000

<i>tnxTower</i> <i>MTS Engineering, P.L.L.C.</i> 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 587-4630	Job	Page
	87311.021.01.0001 - CT SOMERS FD CAC, CT (BU# 803934)	17 of 22
	Project	Date
	Client	Designed by
	Crown Castle	R AITHAL

<i>Load Combination</i>	<i>Vertical</i>	<i>Shear_x</i>	<i>Shear_z</i>	<i>Overturning Moment, M_x</i>	<i>Overturning Moment, M_z</i>	<i>Torque</i>
	<i>K</i>	<i>K</i>	<i>K</i>	<i>kip-ft</i>	<i>kip-ft</i>	<i>kip-ft</i>
1.2 Dead+1.0 Wind 0 deg - No Ice	76.466	0.076	-42.056	-5759.635	-15.567	0.478
0.9 Dead+1.0 Wind 0 deg - No Ice	57.350	0.076	-42.056	-5668.183	-15.268	0.480
1.2 Dead+1.0 Wind 30 deg - No Ice	76.466	21.228	-36.459	-4995.645	-2912.590	-0.641
0.9 Dead+1.0 Wind 30 deg - No Ice	57.350	21.228	-36.459	-4916.339	-2866.291	-0.633
1.2 Dead+1.0 Wind 60 deg - No Ice	76.466	36.692	-21.094	-2893.068	-5029.113	-1.597
0.9 Dead+1.0 Wind 60 deg - No Ice	57.350	36.692	-21.094	-2847.140	-4949.226	-1.584
1.2 Dead+1.0 Wind 90 deg - No Ice	76.466	42.324	-0.076	-15.309	-5798.144	-2.132
0.9 Dead+1.0 Wind 90 deg - No Ice	57.350	42.324	-0.076	-15.073	-5706.080	-2.117
1.2 Dead+1.0 Wind 120 deg - No Ice	76.466	36.616	20.962	2866.671	-5013.654	-2.093
0.9 Dead+1.0 Wind 120 deg - No Ice	57.350	36.616	20.962	2821.134	-4934.063	-2.082
1.2 Dead+1.0 Wind 150 deg - No Ice	76.466	21.096	36.383	4980.649	-2885.692	-1.486
0.9 Dead+1.0 Wind 150 deg - No Ice	57.350	21.096	36.383	4901.524	-2839.910	-1.481
1.2 Dead+1.0 Wind 180 deg - No Ice	76.466	-0.076	42.056	5760.051	15.539	-0.474
0.9 Dead+1.0 Wind 180 deg - No Ice	57.350	-0.076	42.056	5668.497	15.245	-0.476
1.2 Dead+1.0 Wind 210 deg - No Ice	76.466	-21.228	36.459	4996.074	2912.529	0.664
0.9 Dead+1.0 Wind 210 deg - No Ice	57.350	-21.228	36.459	4916.663	2866.244	0.655
1.2 Dead+1.0 Wind 240 deg - No Ice	76.466	-36.692	21.094	2893.533	5029.046	1.615
0.9 Dead+1.0 Wind 240 deg - No Ice	57.350	-36.692	21.094	2847.490	4949.175	1.602
1.2 Dead+1.0 Wind 270 deg - No Ice	76.466	-42.324	0.076	15.796	5798.104	2.127
0.9 Dead+1.0 Wind 270 deg - No Ice	57.350	-42.324	0.076	15.439	5706.049	2.113
1.2 Dead+1.0 Wind 300 deg - No Ice	76.466	-36.616	-20.962	-2866.197	5013.648	2.071
0.9 Dead+1.0 Wind 300 deg - No Ice	57.350	-36.616	-20.962	-2820.777	4934.056	2.060
1.2 Dead+1.0 Wind 330 deg - No Ice	76.466	-21.096	-36.383	-4980.211	2885.693	1.468
0.9 Dead+1.0 Wind 330 deg - No Ice	57.350	-21.096	-36.383	-4901.193	2839.907	1.463
1.2 Dead+1.0 Ice+1.0 Temp	120.099	0.000	0.000	2.238	0.126	0.000
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	120.099	0.011	-12.563	-1792.866	-2.333	0.020
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	120.099	6.328	-10.885	-1553.681	-904.246	-0.233
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	120.099	10.949	-6.291	-897.548	-1563.772	-0.425
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	120.099	12.637	-0.011	-0.280	-1804.197	-0.502
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	120.099	10.938	6.272	897.701	-1561.099	-0.445
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	120.099	6.309	10.874	1555.785	-899.615	-0.268

tnxTower MTS Engineering, P.L.L.C. 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 587-4630	Job	Page
	87311.021.01.0001 - CT SOMERS FD CAC, CT (BU# 803934)	18 of 22
	Project	Date
	Client	Designed by
	Crown Castle	R AITHAL

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
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	120.099	-0.011	12.563	1797.636	3.009	-0.019
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	120.099	-6.328	10.885	1558.453	904.916	0.235
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	120.099	-10.949	6.291	902.326	1564.442	0.426
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	120.099	-12.637	0.011	5.062	1804.871	0.502
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	120.099	-10.938	-6.272	-892.922	1561.778	0.444
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	120.099	-6.309	-10.874	-1551.011	900.296	0.267
Dead+Wind 0 deg - Service	63.722	0.019	-10.417	-1413.879	-3.829	0.119
Dead+Wind 30 deg - Service	63.722	5.258	-9.031	-1226.353	-715.073	-0.162
Dead+Wind 60 deg - Service	63.722	9.088	-5.225	-710.161	-1234.718	-0.401
Dead+Wind 90 deg - Service	63.722	10.483	-0.019	-3.635	-1423.505	-0.533
Dead+Wind 120 deg - Service	63.722	9.069	5.192	703.911	-1230.905	-0.521
Dead+Wind 150 deg - Service	63.722	5.225	9.012	1222.894	-708.469	-0.370
Dead+Wind 180 deg - Service	63.722	-0.019	10.417	1414.229	3.796	-0.119
Dead+Wind 210 deg - Service	63.722	-5.258	9.031	1226.704	715.039	0.164
Dead+Wind 240 deg - Service	63.722	-9.088	5.225	710.514	1234.683	0.402
Dead+Wind 270 deg - Service	63.722	-10.483	0.019	3.990	1423.472	0.532
Dead+Wind 300 deg - Service	63.722	-9.069	-5.192	-703.558	1230.874	0.520
Dead+Wind 330 deg - Service	63.722	-5.225	-9.012	-1222.542	708.438	0.369

Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.000	-63.722	0.000	0.000	63.722	0.000	0.000%
2	0.076	-76.466	-42.056	-0.076	76.466	42.056	0.000%
3	0.076	-57.350	-42.056	-0.076	57.350	42.056	0.000%
4	21.228	-76.466	-36.459	-21.228	76.466	36.459	0.000%
5	21.228	-57.350	-36.459	-21.228	57.350	36.459	0.000%
6	36.692	-76.466	-21.094	-36.692	76.466	21.094	0.000%
7	36.692	-57.350	-21.094	-36.692	57.350	21.094	0.000%
8	42.324	-76.466	-0.076	-42.324	76.466	0.076	0.000%
9	42.324	-57.350	-0.076	-42.324	57.350	0.076	0.000%
10	36.616	-76.466	20.962	-36.616	76.466	-20.962	0.000%
11	36.616	-57.350	20.962	-36.616	57.350	-20.962	0.000%
12	21.096	-76.466	36.383	-21.096	76.466	-36.383	0.000%
13	21.096	-57.350	36.383	-21.096	57.350	-36.383	0.000%
14	-0.076	-76.466	42.056	0.076	76.466	-42.056	0.000%
15	-0.076	-57.350	42.056	0.076	57.350	-42.056	0.000%
16	-21.228	-76.466	36.459	21.228	76.466	-36.459	0.000%
17	-21.228	-57.350	36.459	21.228	57.350	-36.459	0.000%
18	-36.692	-76.466	21.094	36.692	76.466	-21.094	0.000%
19	-36.692	-57.350	21.094	36.692	57.350	-21.094	0.000%
20	-42.324	-76.466	0.076	42.324	76.466	-0.076	0.000%
21	-42.324	-57.350	0.076	42.324	57.350	-0.076	0.000%
22	-36.616	-76.466	-20.962	36.616	76.466	20.962	0.000%
23	-36.616	-57.350	-20.962	36.616	57.350	20.962	0.000%
24	-21.096	-76.466	-36.383	21.096	76.466	36.383	0.000%
25	-21.096	-57.350	-36.383	21.096	57.350	36.383	0.000%
26	0.000	-120.099	0.000	0.000	120.099	0.000	0.000%
27	0.011	-120.099	-12.563	-0.011	120.099	12.563	0.000%
28	6.327	-120.099	-10.885	-6.328	120.099	10.885	0.000%

<i>tnxTower</i> <i>MTS Engineering, P.L.L.C.</i> 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 587-4630	Job	Page
	87311.021.01.0001 - CT SOMERS FD CAC, CT (BU# 803934)	19 of 22
	Project	Date
	Client	Designed by
	Crown Castle	R AITHAL

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
29	10.949	-120.099	-6.290	-10.949	120.099	6.291	0.000%
30	12.637	-120.099	-0.011	-12.637	120.099	0.011	0.000%
31	10.938	-120.099	6.272	-10.938	120.099	-6.272	0.000%
32	6.309	-120.099	10.874	-6.309	120.099	-10.874	0.000%
33	-0.011	-120.099	12.563	0.011	120.099	-12.563	0.000%
34	-6.327	-120.099	10.885	6.328	120.099	-10.885	0.000%
35	-10.949	-120.099	6.290	10.949	120.099	-6.291	0.000%
36	-12.637	-120.099	0.011	12.637	120.099	-0.011	0.000%
37	-10.938	-120.099	-6.272	10.938	120.099	6.272	0.000%
38	-6.309	-120.099	-10.874	6.309	120.099	10.874	0.000%
39	0.019	-63.722	-10.417	-0.019	63.722	10.417	0.000%
40	5.258	-63.722	-9.031	-5.258	63.722	9.031	0.000%
41	9.088	-63.722	-5.225	-9.088	63.722	5.225	0.000%
42	10.483	-63.722	-0.019	-10.483	63.722	0.019	0.000%
43	9.069	-63.722	5.192	-9.069	63.722	-5.192	0.000%
44	5.225	-63.722	9.012	-5.225	63.722	-9.012	0.000%
45	-0.019	-63.722	10.417	0.019	63.722	-10.417	0.000%
46	-5.258	-63.722	9.031	5.258	63.722	-9.031	0.000%
47	-9.088	-63.722	5.225	9.088	63.722	-5.225	0.000%
48	-10.483	-63.722	0.019	10.483	63.722	-0.019	0.000%
49	-9.069	-63.722	-5.192	9.069	63.722	5.192	0.000%
50	-5.225	-63.722	-9.012	5.225	63.722	9.012	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	5	0.00000001	0.00006443
3	Yes	4	0.00000001	0.00081791
4	Yes	6	0.00000001	0.00031689
5	Yes	6	0.00000001	0.00010349
6	Yes	6	0.00000001	0.00032317
7	Yes	6	0.00000001	0.00010573
8	Yes	5	0.00000001	0.00016085
9	Yes	5	0.00000001	0.00007634
10	Yes	6	0.00000001	0.00030987
11	Yes	6	0.00000001	0.00010127
12	Yes	6	0.00000001	0.00031767
13	Yes	6	0.00000001	0.00010425
14	Yes	5	0.00000001	0.00003958
15	Yes	4	0.00000001	0.00068764
16	Yes	6	0.00000001	0.00032050
17	Yes	6	0.00000001	0.00010483
18	Yes	6	0.00000001	0.00031504
19	Yes	6	0.00000001	0.00010272
20	Yes	5	0.00000001	0.00009686
21	Yes	5	0.00000001	0.00004615
22	Yes	6	0.00000001	0.00031980
23	Yes	6	0.00000001	0.00010495
24	Yes	6	0.00000001	0.00031119
25	Yes	6	0.00000001	0.00010183
26	Yes	4	0.00000001	0.00000001
27	Yes	6	0.00000001	0.00019392
28	Yes	6	0.00000001	0.00029628
29	Yes	6	0.00000001	0.00029869

<i>tnxTower</i> <i>MTS Engineering, P.L.L.C.</i> 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 587-4630	Job	Page
	87311.021.01.0001 - CT SOMERS FD CAC, CT (BU# 803934)	20 of 22
	Project	Date
	Client	13:40:23 01/24/25
	Crown Castle	Designed by
		R AITHAL

30	Yes	6	0.00000001	0.00019476
31	Yes	6	0.00000001	0.00029458
32	Yes	6	0.00000001	0.00029596
33	Yes	6	0.00000001	0.00019412
34	Yes	6	0.00000001	0.00029915
35	Yes	6	0.00000001	0.00029755
36	Yes	6	0.00000001	0.00019522
37	Yes	6	0.00000001	0.00029742
38	Yes	6	0.00000001	0.00029521
39	Yes	4	0.00000001	0.00014608
40	Yes	5	0.00000001	0.00007254
41	Yes	5	0.00000001	0.00007685
42	Yes	4	0.00000001	0.00018732
43	Yes	5	0.00000001	0.00006937
44	Yes	5	0.00000001	0.00007457
45	Yes	4	0.00000001	0.00014430
46	Yes	5	0.00000001	0.00007499
47	Yes	5	0.00000001	0.00007135
48	Yes	4	0.00000001	0.00017859
49	Yes	5	0.00000001	0.00007608
50	Yes	5	0.00000001	0.00007021

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	187 - 136	35.386	41	1.651	0.003
L2	140.5 - 89.5	20.073	47	1.390	0.002
L3	95.25 - 44.25	8.979	41	0.912	0.001
L4	51 - 0	2.530	47	0.454	0.000

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
190.000	3' x 2" Pipe Mount	41	35.386	1.651	0.003	50257
185.000	DB404L-B	41	34.693	1.642	0.003	50257
182.000	PCS 1900MHz 4x45W-65MHz	41	33.654	1.629	0.003	50257
177.000	(2) LPA-80080-4CF-EDIN-0 w/ Mount Pipe	41	31.928	1.607	0.003	25128
168.000	Side Arm Mount [SO 102-3]	41	28.856	1.565	0.002	13225
167.000	APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	41	28.518	1.560	0.002	12563
155.000	QD8616-7 w/ Mount Pipe	47	24.558	1.494	0.002	7851
148.000	APXV18-206517S-C w/ Mount Pipe	47	22.344	1.448	0.002	6442
122.000	SD212-SF2P2SNM	47	14.996	1.212	0.001	5479
114.000	SD110-SFXPASNM	47	13.034	1.125	0.001	5513
83.000	Side Arm Mount [SO 102-3]	41	6.741	0.778	0.000	5328
81.000	ANT450D3	41	6.407	0.756	0.000	5288
79.000	Side Arm Mount [SO 102-3]	41	6.083	0.735	0.000	5248
48.000	KS24019-L112A	47	2.264	0.426	0.000	5049

<i>tnxTower</i> MTS Engineering, P.L.L.C. 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 587-4630	Job 87311.021.01.0001 - CT SOMERS FD CAC, CT (BU# 803934)	Page 21 of 22
	Project	Date 13:40:23 01/24/25
	Client Crown Castle	Designed by R AITHAL

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	187 - 136	144.164	6	6.744	0.012
L2	140.5 - 89.5	81.823	18	5.678	0.006
L3	95.25 - 44.25	36.609	6	3.723	0.003
L4	51 - 0	10.315	18	1.853	0.001

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
190.000	3' x 2" Pipe Mount	6	144.164	6.744	0.012	12631
185.000	DB404L-B	6	141.343	6.709	0.012	12631
182.000	PCS 1900MHz 4x45W-65MHz	6	137.115	6.656	0.011	12631
177.000	(2) LPA-80080-4CF-EDIN-0 w/ Mount Pipe	6	130.091	6.567	0.011	6314
168.000	Side Arm Mount [SO 102-3]	6	117.585	6.395	0.010	3321
167.000	APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	6	116.212	6.375	0.009	3154
155.000	QD8616-7 w/ Mount Pipe	18	100.086	6.103	0.008	1968
148.000	APXV18-206517S-C w/ Mount Pipe	18	91.070	5.913	0.007	1613
122.000	SD212-SF2P2SNM	18	61.139	4.951	0.004	1362
114.000	SD110-SFXPASNM	18	53.140	4.593	0.004	1367
83.000	Side Arm Mount [SO 102-3]	6	27.485	3.173	0.002	1313
81.000	ANT450D3	6	26.124	3.086	0.002	1303
79.000	Side Arm Mount [SO 102-3]	6	24.801	3.000	0.002	1293
48.000	KS24019-L112A	18	9.228	1.738	0.001	1239

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	187 - 136 (1)	TP36.201x26x0.25	51.000	0.000	0.0	27.813	-23.336	1627.050	0.014
L2	136 - 89.5 (2)	TP45.003x34.801x0.375	51.000	0.000	0.0	51.749	-35.390	3027.340	0.012
L3	89.5 - 44.25 (3)	TP53.304x43.103x0.438	51.000	0.000	0.0	71.537	-52.003	4184.910	0.012
L4	44.25 - 0 (4)	TP61.28x51.079x0.5	51.000	0.000	0.0	96.458	-76.435	5642.780	0.014

Pole Bending Design Data

tnxTower MTS Engineering, P.L.L.C. 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 587-4630	Job	Page
	87311.021.01.0001 - CT SOMERS FD CAC, CT (BU# 803934)	22 of 22
	Project	Date
	Client	13:40:23 01/24/25
	Crown Castle	Designed by
		R AITHAL

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{ux} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	M_{uy} kip-ft	ϕM_{uy} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{uy}}$
L1	187 - 136 (1)	TP36.201x26x0.25	773.508	1321.717	0.585	0.000	1321.717	0.000
L2	136 - 89.5 (2)	TP45.003x34.801x0.375	2149.067	3254.917	0.660	0.000	3254.917	0.000
L3	89.5 - 44.25 (3)	TP53.304x43.103x0.438	3734.983	5306.567	0.704	0.000	5306.567	0.000
L4	44.25 - 0 (4)	TP61.28x51.079x0.5	5802.059	8358.583	0.694	0.000	8358.583	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	187 - 136 (1)	TP36.201x26x0.25	27.670	488.116	0.057	2.154	1498.317	0.001
L2	136 - 89.5 (2)	TP45.003x34.801x0.375	33.133	908.202	0.036	0.900	3458.042	0.000
L3	89.5 - 44.25 (3)	TP53.304x43.103x0.438	38.221	1255.470	0.030	1.398	5664.117	0.000
L4	44.25 - 0 (4)	TP61.28x51.079x0.5	42.380	1692.840	0.025	1.615	9010.667	0.000

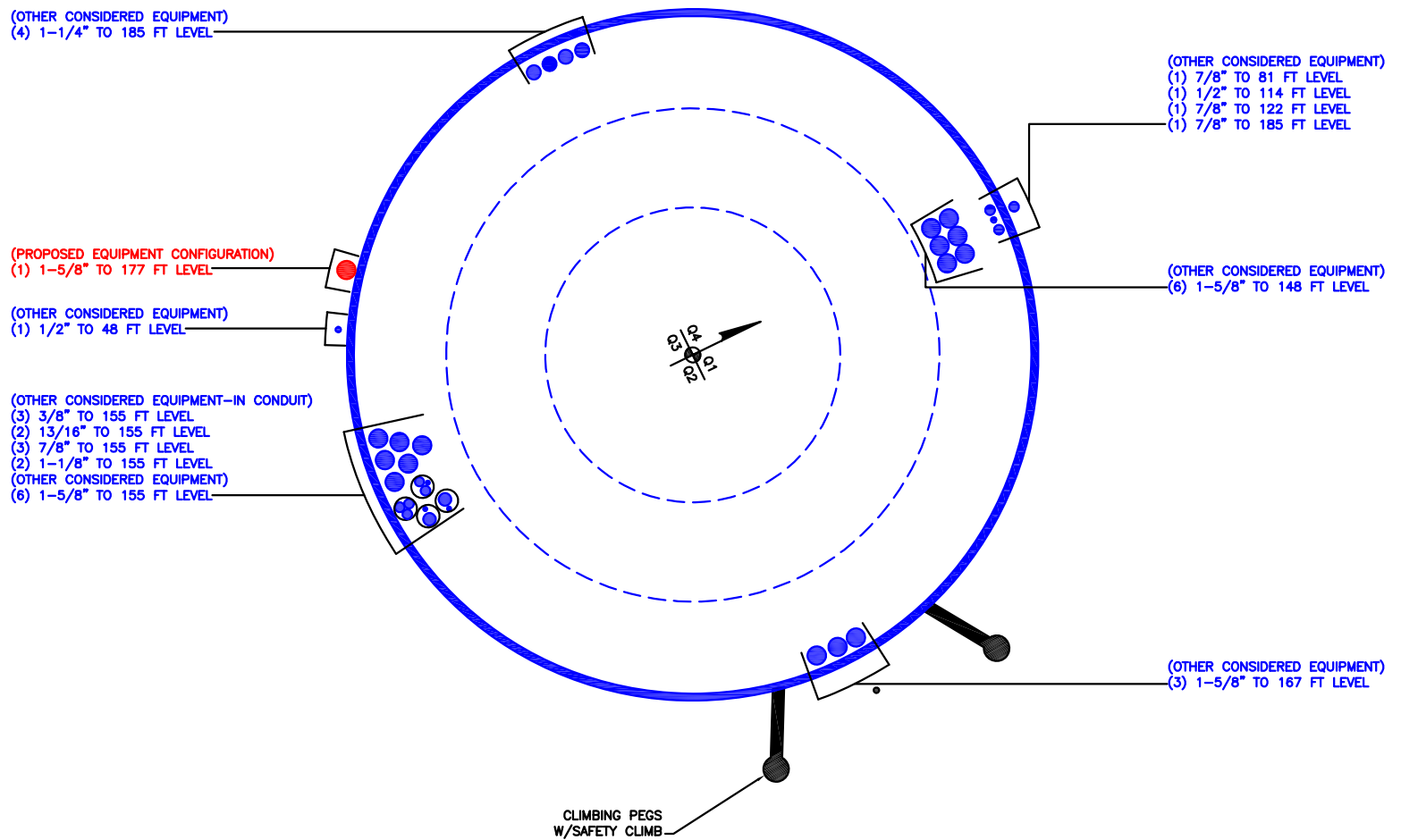
Pole Interaction Design Data

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	Ratio $\frac{M_{uy}}{\phi M_{uy}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	187 - 136 (1)	0.014	0.585	0.000	0.057	0.001	0.603	1.050	
L2	136 - 89.5 (2)	0.012	0.660	0.000	0.036	0.000	0.673	1.050	
L3	89.5 - 44.25 (3)	0.012	0.704	0.000	0.030	0.000	0.717	1.050	
L4	44.25 - 0 (4)	0.014	0.694	0.000	0.025	0.000	0.708	1.050	

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	187 - 136	Pole	TP36.201x26x0.25	1	-23.336	1708.402	57.4	Pass
L2	136 - 89.5	Pole	TP45.003x34.801x0.375	2	-35.390	3178.707	64.1	Pass
L3	89.5 - 44.25	Pole	TP53.304x43.103x0.438	3	-52.003	4394.155	68.3	Pass
L4	44.25 - 0	Pole	TP61.28x51.079x0.5	4	-76.435	5924.918	67.5	Pass
							Summary	
							Pole (L3)	68.3
							RATING =	68.3
								Pass

APPENDIX B
BASE LEVEL DRAWING



BUSINESS UNIT: 803934

APPENDIX C
ADDITIONAL CALCULATIONS

Monopole Base Plate Connection

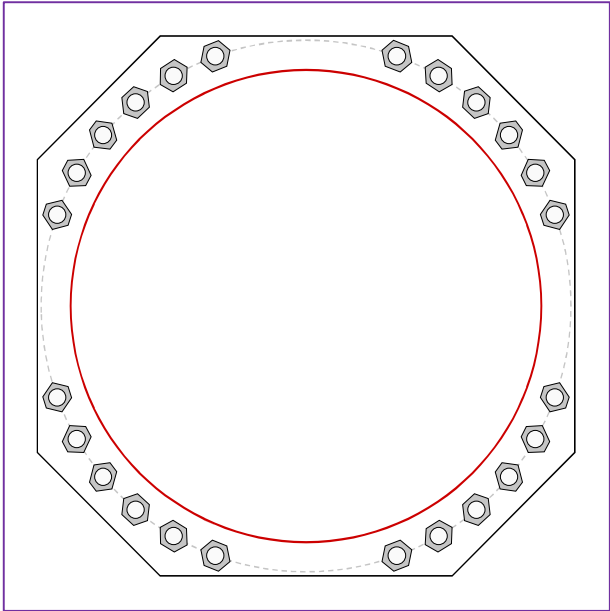


Site Info	
BU #	803934
Site Name	CT SOMERS FD CAC, CT
Order #	690577, Rev# 1

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
I_{gr} (in)	2

Applied Loads	
Moment (kip-ft)	5802.05
Axial Force (kips)	76.43
Shear Force (kips)	42.38

*TIA-222-H Section 15.5 Applied



Connection Properties		Analysis Results	
Anchor Rod Data		Anchor Rod Summary (units of kips, kip-in)	
(24) 2-1/4" ϕ bolts (A615-75 N; F_y =75 ksi, F_u =100 ksi) on 69" BC <i>Anchor Spacing: 6 in</i>		Pu_t = 164.92	ϕPn_t = 243.75 Stress Rating
		Vu = 1.77	ϕVn = 149.1 64.4%
		Mu = n/a	ϕMn = n/a Pass
Base Plate Data		Base Plate Summary	
70" W x 3.25" Plate (A572-55; F_y =55 ksi, F_u =70 ksi); Clip: 16 in		Max Stress (ksi):	23.73 (Flexural)
Stiffener Data		Allowable Stress (ksi):	49.5
N/A		Stress Rating:	45.7% Pass
Pole Data			
61.28" x 0.5" 18-sided pole (A607-65; F_y =65 ksi, F_u =80 ksi)			

Drilled Pier Foundation

BU # :	803934
Site Name:	CT SOMERS FD CAC, CT
Order Number:	690577, Rev# 1
TIA-222 Revision:	H
Tower Type:	Monopole

Applied Loads		
	Comp.	Uplift
Moment (kip-ft)	5802.05	-
Axial Force (kips)	76.43	-
Shear Force (kips)	42.38	-

Material Properties	
Concrete Strength, f _c :	3 ksi
Rebar Strength, F _y :	60 ksi
Tie Yield Strength, F _y t:	40 ksi

Pier Design Data	
Depth	29 ft
Ext. Above Grade	0.5 ft
Pier Section 1	
From 0.5' above grade to 29' below grade	
Pier Diameter	8 ft
Rebar Quantity	32
Rebar Size	11
Clear Cover to Ties	4 in
Tie Size	5
Tie Spacing	18 in

Rebar & Pier Options

Embedded Rebar Inputs

Belled Pier Inputs



Check Limitation	
Apply TIA-222-H Section 15.5:	<input checked="" type="checkbox"/>
	N/A
Design Options	
Input Effective Depths (else Actual):	<input type="checkbox"/>
Consider non-tapered moment capacity:	<input type="checkbox"/>
Check Shear along Depth of Pier:	<input checked="" type="checkbox"/>
Utilize Shear-Friction Methodology:	<input type="checkbox"/>
Override Critical Depth:	<input type="checkbox"/>

[Go to Soil Calculations](#)

Analysis Results			
Soil Lateral Check		Compression	Uplift
D _{req} (ft from TOC)		6.52	-
Soil Safety Factor		2.29	-
Max Moment (kip-ft)		6044.08	-
Rating*		55.3%	-
Soil Vertical Check		Compression	Uplift
Skin Friction (kips)		282.74	-
End Bearing (kips)		904.78	-
Weight of Concrete (kips)		174.64	-
Total Capacity (kips)		1187.52	-
Axial (kips)		251.07	-
Rating*		20.1%	-
Reinforced Concrete Flexure		Compression	Uplift
Critical Depth (ft from TOC)		6.40	-
Critical Moment (kip-ft)		6043.93	-
Critical Moment Capacity		9005.79	-
Rating*		63.9%	-
Reinforced Concrete Shear		Compression	Uplift
Critical Depth (ft from TOC)		20.83	-
Critical Shear (kip)		562.67	-
Critical Shear Capacity		721.97	-
Rating*		74.2%	-
Structural Foundation Rating*		74.2%	
Soil Interaction Rating*		55.3%	

*Rating per TIA-222-H Section 15.5

Soil Profile

# of Layers	3
-------------	---

Layer	Top (ft)	Bottom (ft)	Thickness (ft)	V _{soil} (pcf)	V _{concrete} (pcf)	Cohesion (ksf)	Angle of Friction (degrees)	Calculated Ultimate Skin Friction Comp (ksf)	Calculated Ultimate Skin Friction Uplift (ksf)	Ultimate Skin Friction Comp Override (ksf)	Ultimate Skin Friction Uplift Override (ksf)	Ult. Gross Bearing Capacity (ksf)	SPT Blow Count	Soil Type
1	0	4	4	120	150	0	0	0.000	0.000	0.00	0.00			Cohesionless
2	4	4.5	0.5	120	150	0	34	0.000	0.000	0.60	0.60			Cohesionless
3	4.5	29	24.5	60	87.6	0	34	0.000	0.000	0.60	0.60	24		Cohesionless

ASCE Hazards Report

Address:

No Address at This Location

Standard:

ASCE/SEI 7-16

Risk Category: II**Soil Class:**

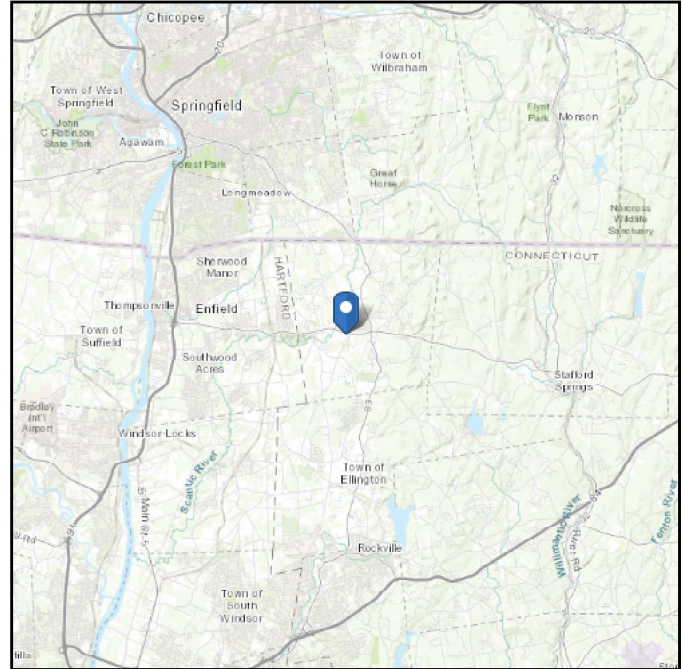
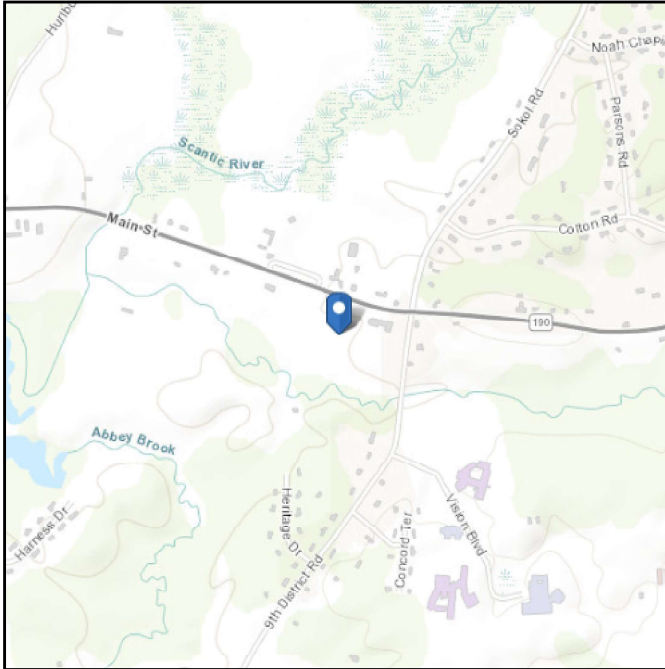
D - Default (see
Section 11.4.3)

Latitude:

41.983744

Longitude: -72.465797**Elevation:**

197.77966929482847 ft
(NAVD 88)



Wind

Results:

Wind Speed	117 Vmph
10-year MRI	75 Vmph
25-year MRI	83 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:

Thu Jan 23 2025

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

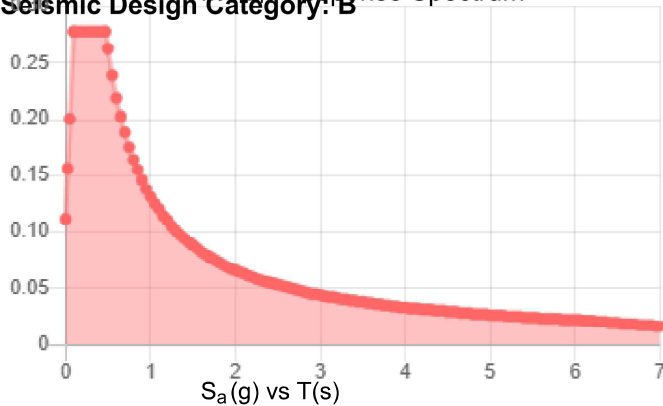
Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

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

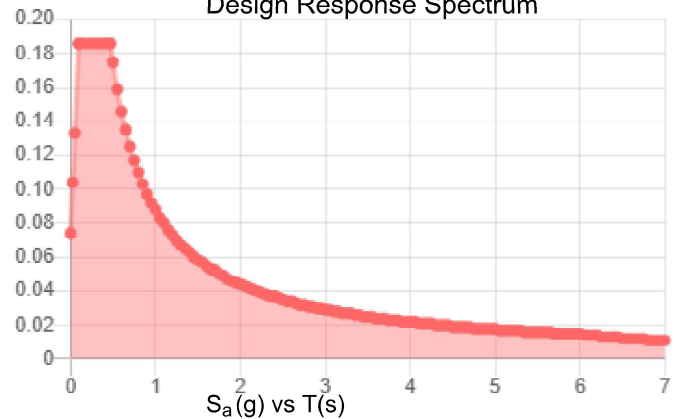
Results:

S_S :	0.174	S_{D1} :	0.088
S_1 :	0.055	T_L :	6
F_a :	1.6	PGA :	0.091
F_v :	2.4	PGA _M :	0.146
S_{MS} :	0.278	F_{PGA} :	1.6
S_{M1} :	0.131	I_e :	1
S_{DS} :	0.186	C_v :	0.7

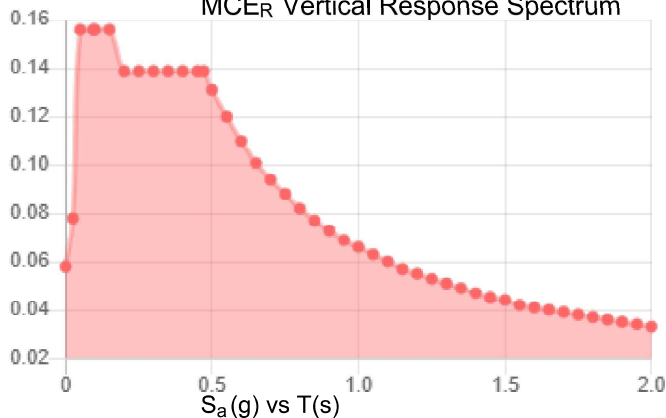
Seismic Design Category: B MCE_R Response Spectrum



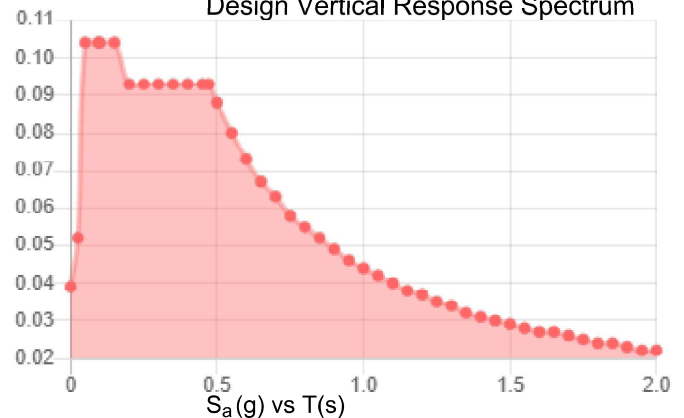
Design Response Spectrum



MCE_R Vertical Response Spectrum



Design Vertical Response Spectrum



Data Accessed: Thu Jan 23 2025

Date Source:

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

Ice

Results:

Ice Thickness: 1.50 in.

Concurrent Temperature: 5 F

Gust Speed 50 mph

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

Date Accessed: Thu Jan 23 2025

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

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

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

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

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



Colliers Engineering & Design, Architecture, Landscape
Architecture, Surveying, CT P.C
Mt. Laurel, NJ 08054
856.797.0412
sean.osullivan@collierseng.com

Antenna Mount Analysis Report and PMI Requirements

Mount ReAnalysis

SMART Tool Project #: 10269449
Colliers Engineering & Design Project #: 24777557

December 18, 2024

Site Information

Site ID: 5000242675-VZW / SOMERS 2 CT
Site Name: SOMERS 2 CT
Carrier Name: Verizon Wireless
Address: 400 Main Street
Somers, Connecticut 06071
Tolland County
Latitude: 41.983433°
Longitude: -72.465647°

Structure Information

Tower Type: 190-Ft Monopole
Mount Type: 14.00-Ft Platform

FUZE ID # 17390699

Analysis Results

Platform: 64.8% Pass*

***Antennas and equipment to be installed in compliance with PMI Requirements of this mount analysis.**

***Contractor PMI Requirements:

Included at the end of this MA report

Available & Submitted via portal at <https://pmi.vzwsmart.com>

For additional questions and support, please reach out to:
pmisupport@colliersengineering.com

Report Prepared By: Gianna Argentina



Executive Summary:

The objective of this report is to determine the capacity of the antenna support mount at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

This analysis is inclusive of the mount structure only and does not address the structural capacity of the supporting structure. This mounting frame was not analyzed as an anchor attachment point for fall protection. All climbing activities are required to have a fall protection plan completed by a competent person.

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	Verizon RFDS Site ID: 675039, dated November 7, 2024
Previous PMI	Colliers Engineering & Design, Project #: 21777131 dated October 9, 2023

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H 2022 Connecticut State Building Code (CSBC), Effective October 1, 2022
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 120 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.50 in Risk Category: II Exposure Category: C Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, K_e : 0.993
Seismic Parameters:	S_s : 0.174 g S_1 : 0.055 g
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Load, L_v : 250 lbs. Maintenance Load, L_m : 500 lbs.
Analysis Software:	RISA-3D (V22)

Final Loading Configuration:

The following equipment has been considered for the analysis of the mount:

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
176.50	178.00	6	Commscope	NHH-65C-R2B	Retained
		3	Samsung	MT6407-77A	
		3	Samsung	RF4439d-25A	
		3	Samsung	RF4440d-13A	
		1	Raycap	RVZDC-6627-PF-48	
		2	Amphenol Antel	LPA-80063-4CF-EDIN	
		3	Amphenol Antel	LPA-80080-4CF	
		1	Andrews	LNK-6513DS-A1	
		2	KAelus	BSF0020F3V1-1	Added

It is acceptable to install up to any three (3) of the OVP model numbers listed below as required at any location other than the mount face without affecting the structural capacity of the mount. If OVP units are installed on the mount face, a mount re-analysis may be required unless replacing an existing OVP.

Model Number	Ports	AKA
DB-B1-6C-12AB-0Z	6	OVP-6
RVZDC-6627-PF-48	12	OVP-12

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Colliers Engineering & Design and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Colliers Engineering & Design to verify deviation will not adversely impact the analysis.
2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping and reported in the Mount Mapping Report are assumed to be corrected and documented as part of the PMI process and are not considered in the mount analysis.

The mount analysis and the mount mapping are not a condition assessment of the mount. Proper maintenance and condition assessments are still required post analysis.

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.
4. 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.
5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.

6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Colliers Engineering & Design is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
 - Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - HSS (Rectangular) ASTM 500 (Gr. B-46)
 - Pipe ASTM A53 (Gr. B-35)
 - Threaded Rod F1554 (Gr. 36)
 - Bolts ASTM A325

Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Colliers Engineering & Design.

Analysis Results:

Component	Utilization %	Pass/Fail
Mod SR Corner Angle	33.6%	Pass
Mod Vkit	9.8%	Pass
Mod Support Rail	32.5%	Pass
Pipe Mount (P2 STD)	24.1%	Pass
Pipe Mount (P2.5 STD)	18.4%	Pass
Standoff Arm Outer Sleeve	8.9%	Pass
Standoff Arm Inner Sleeve	22.8%	Pass
Corner Double Angle	5.5%	Pass
Inner Horizontal	21.9%	Pass
Face Horizontal	64.8%	Pass
Mount Connection	48.2%	Pass

Structure Rating – (Controlling Utilization of all Components)	64.8%
---	--------------

Mount Connection Envelope Reactions:

Connection Description	Elev. AGL (Ft)	Node Label	Envelope Wind Reactions				Envelope Wind + Ice Reactions			
			Axial (Lbs)	Lateral (Lbs)	Moment (K-Ft)	Torsion (K-Ft)	Axial (Lbs)	Lateral (Lbs)	Moment (K-Ft)	Torsion (K-Ft)
Sector A Standoff	178	N24	984	1789	2.334	1.359	1130	672	2.302	0.458
Sector B Standoff	178	N21	963	1607	2.281	1.191	1046	599	2.056	0.354
Sector C Standoff	178	N27	1047	1729	2.518	1.406	1159	641	2.389	0.440
Sector A Top Reinforcement	181	N137	1582	1398	0.002	0.000	2684	2228	0.001	0.000
Sector B Top Reinforcement	181	N140	1573	1391	0.001	0.000	2668	2217	0.001	0.000
Sector C Top Reinforcement	181	N143	1635	1445	0.001	0.000	2736	2272	0.001	0.000

Notes:

- Axial loads act along the axis of the tower
- Lateral reactions act perpendicular to the tower
- Moment loads introduce bending moment to the tower
- Torsion loads introduce twisting moment to the tower
- Batch solutions by individual load cases are included at the end of this document

Mount Steel (EPA)a per ANSI/TIA-222-H Section 2.6.11.2:

Ice Thickness (In)	Mount Pipes Excluded		Mount Pipes Included	
	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	35.2	35.2	51.9	51.9
0.5	43.7	43.7	67.1	67.1
1	51.9	51.9	82.1	82.1

Notes:

- (EPA)a values listed above may be used in the absence of more precise information
- (EPA)a values in the table above include 3 sector(s).
- Ka factors included in (EPA)a calculations

Requirements:

The existing mount is **SUFFICIENT** for the final loading configuration shown in attachment 2 and do not require modifications. Additional requirements are noted below.

Contractor to relocate existing OVP from grating pipe to mount pipe. See antenna placement diagrams.

Contractor to remove existing OVP pipe on grating.

Contractor shall install the proposed filter units on new Site Pro 1 Dual Swivel Mount Kit (Part #: RRUDSM or EOR approved equivalent) in the location shown in the placement diagrams.

If required, ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other. Separate review fees will apply.

Attachments:

1. **Contractor Required Post Installation Inspection (PMI) Report Deliverables**
2. Antenna Placement Diagrams
3. Mount Photos
4. Analysis Calculations

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – **Passing Mount Analysis**

Passing Mount Analysis requires a PMI due to a modification in loading.

Electronic pdf version of this can be downloaded at <https://pmi.vzwsmart.com>.

For additional questions and support, please reach out to pmisupport@colliersengineering.com

MDG #: 5000242675

SMART Project #: 10269449

Fuze Project ID: 17390699

Purpose – to provide SMART Tool structural vendor the proper documentation in order to complete the required Mount Desktop review of the Post Modification Inspection Report.

- Contractor is responsible for making certain the photos provided as noted below provide confirmation that the installation was completed in accordance with this Passing Mount Analysis.
- Contractor shall relay any data that can impact the performance of the mount, this includes safety issues.

Base Requirements:

- If installation will cause damage to the structure, the climbing facility, or safety climb if present or any installed system, SMART Tool vendor to be notified prior to install. Any special photos outside of the standard requirements will be indicated on the drawings.
- Provide “as built mount drawings” showing contractor’s name, contact information, preparer’s signature, and date. Any deviations from the drawings (Proposed modification) shall be shown. NOTE: If loading is different than what is conveyed in the passing mount analysis (MA) contact the SMART Tool vendor immediately.
- Each photo should be time and date stamped
- Photos should be high resolution.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope. If there is conflict, contact the SMART Tool engineer for recommendations.
- The PMI can be accessed at the following portal: <https://pmi.vzwsmart.com>

Photo Requirements:

- *Photos taken at ground level*
 - Photo of Gate Signs showing the tower owner, site name, and number.
 - Overall tower structure after installation.
 - Photos of the mount after installation; if the mounts are at different rad elevations, pictures must be provided for all elevations that equipment was installed.
- *Photos taken at Mount Elevation*
 - Photos showing the safety climb wire rope above and below the mount prior to installation.
 - Photos showing the climbing facility and safety climb if present.
 - Photos showing each individual sector after installation. Each entire sector shall be in one photo to show the interconnection of members.

- These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
- Photos that show the model number of each antenna and piece of equipment installed per sector.

Antenna & equipment placement and Geometry Confirmation:

- The contractor shall certify that the antenna & equipment placement and geometry is in accordance with the sketch and table as included in the mount analysis and noted below.
- ☐ The contractor certifies that the photos support and the equipment on the mount is as depicted on the sketch and table included in this form and with the mount analysis provided.

OR

- ☐ The contractor notes that the equipment on the mount is not in accordance with the sketch and has noted the differences below and provided photo documentation of any alterations.

Special Instructions / Validation as required from the MA or any other information the contractor deems necessary to share that was identified:

Issue:

Contractor to relocate existing OVP from grating pipe to mount pipe. See antenna placement diagrams.

Contractor to remove existing OVP pipe on grating.

Contractor shall install the proposed filter units on new Site Pro 1 Dual Swivel Mount Kit (Part #: RRUDSM or EOR approved equivalent) in the location shown in the placement diagrams.

Response:

Special Instruction Confirmation:

- ☐ The contractor has read and acknowledges the above special instructions.
- ☐ All hardware listed in the Special Instructions above (if applicable) has been properly installed, and the existing hardware was inspected.
- ☐ The material utilized was as specified in the SMART Tool engineering vendor Special Instructions above (if applicable) and included in the material certification folder is a packing list or invoice for these materials.

OR

☐ The material utilized was approved by a SMART Tool engineering vendor as an “equivalent” and this approval is included as part of the contractor submission.

Comments:

--

Contractor certifies that the climbing facility / safety climb was not damaged prior to starting work:

☐ Yes ☐ No

Contractor certifies no new damage created during the current installation:

☐ Yes ☐ No

Contractor to certify the condition of the safety climb and verify no damage when leaving the site:

☐ Safety Climb in Good Condition ☐ Safety Climb Damaged

Contractor to provide measurement from top of the highest equipment/steel to the bottom of the lowest equipment/steel by documenting it using the most appropriate illustration below along with supporting photos:

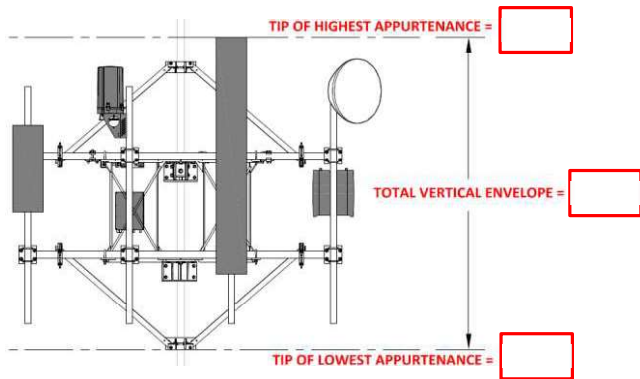


Illustration #1

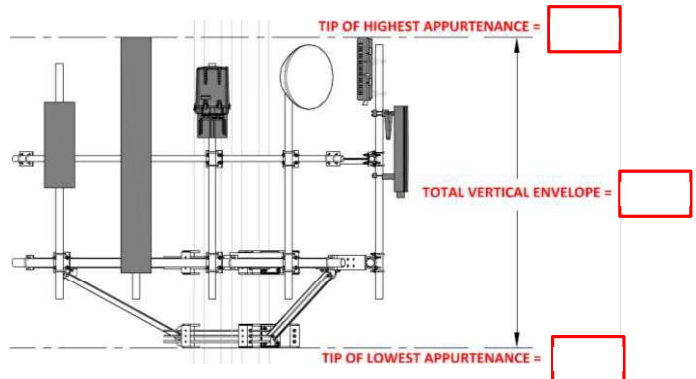


Illustration #2

Certifying Individual:

Company:	
Employee Name:	
Contact Phone:	
Email:	
Date:	

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – **Passing Mount Analysis**

Passing Mount Analysis requires a PMI due to a modification in loading.

Electronic pdf version of this can be downloaded at <https://pmi.vzwsmart.com>.

For additional questions and support, please reach out to pmisupport@colliersengineering.com

MDG #: 5000242675

SMART Project #: 10269449

Fuze Project ID: 17390699

Purpose – to provide SMART Tool structural vendor the proper documentation in order to complete the required Mount Desktop review of the Post Modification Inspection Report.

- Contractor is responsible for making certain the photos provided as noted below provide confirmation that the installation was completed in accordance with this Passing Mount Analysis.
- Contractor shall relay any data that can impact the performance of the mount, this includes safety issues.

Base Requirements:

- If installation will cause damage to the structure, the climbing facility, or safety climb if present or any installed system, SMART Tool vendor to be notified prior to install. Any special photos outside of the standard requirements will be indicated on the drawings.
- Provide “as built mount drawings” showing contractor’s name, contact information, preparer’s signature, and date. Any deviations from the drawings (Proposed modification) shall be shown. NOTE: If loading is different than what is conveyed in the passing mount analysis (MA) contact the SMART Tool vendor immediately.
- Each photo should be time and date stamped
- Photos should be high resolution.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope. If there is conflict, contact the SMART Tool engineer for recommendations.
- The PMI can be accessed at the following portal: <https://pmi.vzwsmart.com>

Photo Requirements:

- *Photos taken at ground level*
 - Photo of Gate Signs showing the tower owner, site name, and number.
 - Overall tower structure after installation.
 - Photos of the mount after installation; if the mounts are at different rad elevations, pictures must be provided for all elevations that equipment was installed.
- *Photos taken at Mount Elevation*
 - Photos showing the safety climb wire rope above and below the mount prior to installation.
 - Photos showing the climbing facility and safety climb if present.
 - Photos showing each individual sector after installation. Each entire sector shall be in one photo to show the interconnection of members.

- These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
- Photos that show the model number of each antenna and piece of equipment installed per sector.

Antenna & equipment placement and Geometry Confirmation:

- The contractor shall certify that the antenna & equipment placement and geometry is in accordance with the sketch and table as included in the mount analysis and noted below.
- ☐ The contractor certifies that the photos support and the equipment on the mount is as depicted on the sketch and table included in this form and with the mount analysis provided.

OR

- ☐ The contractor notes that the equipment on the mount is not in accordance with the sketch and has noted the differences below and provided photo documentation of any alterations.

Special Instructions / Validation as required from the MA or any other information the contractor deems necessary to share that was identified:

Issue:

Contractor to relocate existing OVP from grating pipe to mount pipe. See antenna placement diagrams.

Contractor to remove existing OVP pipe on grating.

Contractor shall install the proposed filter units on new Site Pro 1 Dual Swivel Mount Kit (Part #: RRUDSM or EOR approved equivalent) in the location shown in the placement diagrams.

Response:

Special Instruction Confirmation:

- ☐ The contractor has read and acknowledges the above special instructions.
- ☐ All hardware listed in the Special Instructions above (if applicable) has been properly installed, and the existing hardware was inspected.
- ☐ The material utilized was as specified in the SMART Tool engineering vendor Special Instructions above (if applicable) and included in the material certification folder is a packing list or invoice for these materials.

OR

☐ The material utilized was approved by a SMART Tool engineering vendor as an “equivalent” and this approval is included as part of the contractor submission.

Comments:

--

Contractor certifies that the climbing facility / safety climb was not damaged prior to starting work:

☐ Yes ☐ No

Contractor certifies no new damage created during the current installation:

☐ Yes ☐ No

Contractor to certify the condition of the safety climb and verify no damage when leaving the site:

☐ Safety Climb in Good Condition ☐ Safety Climb Damaged

Contractor to provide measurement from top of the highest equipment/steel to the bottom of the lowest equipment/steel by documenting it using the most appropriate illustration below along with supporting photos:

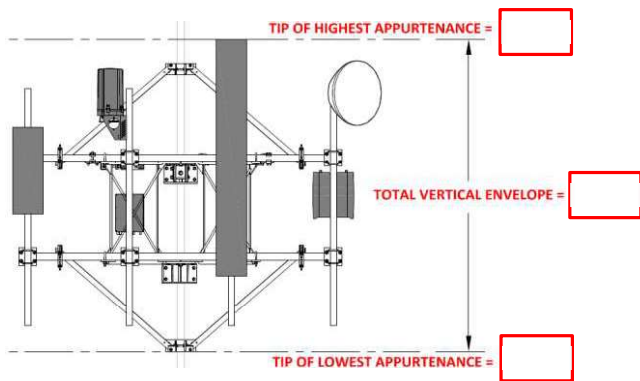


Illustration #1

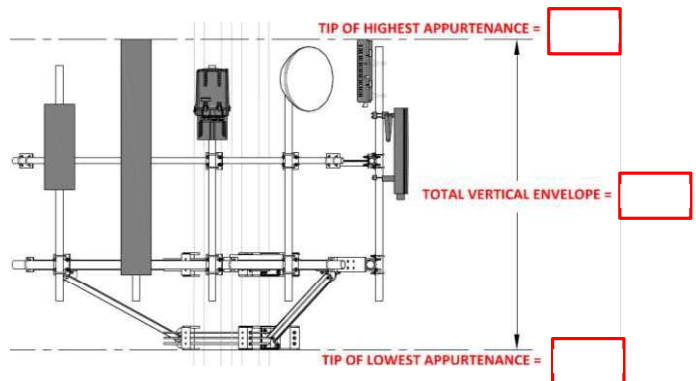


Illustration #2

Certifying Individual:

Company:	
Employee Name:	
Contact Phone:	
Email:	
Date:	

Sector: **A**

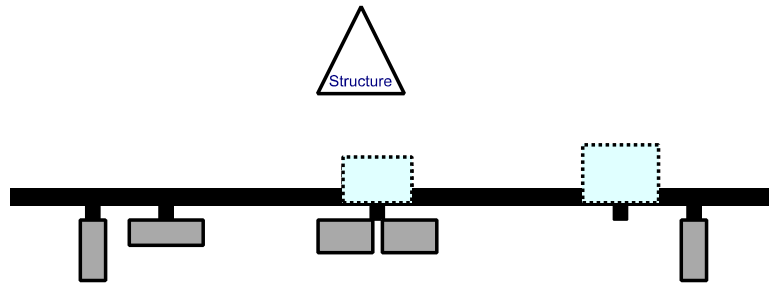
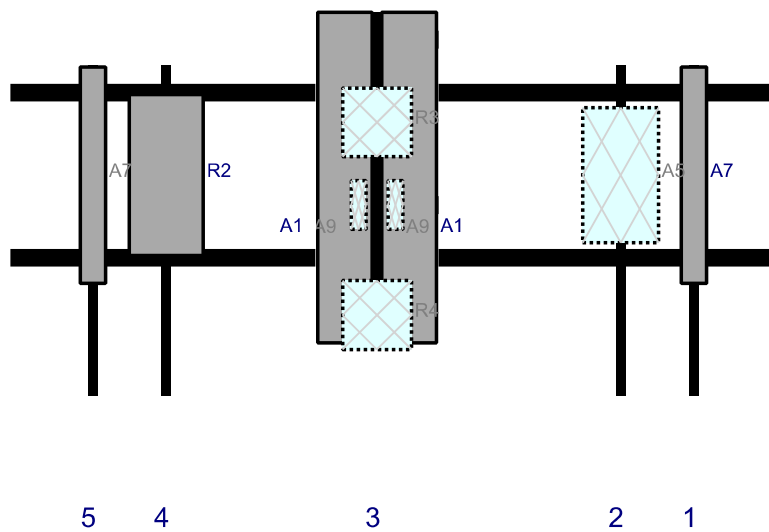
12/18/2024

Structure Type: Monopole

10269449

Mount Elev: 176.50

Page: 1

Plan View**Front View - Looking at Structure**

Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A7	LPA-80080-4CF	47.2	5.5	149	1	a	Front	24	0	Retained	09/26/2023
A5	RVZDC-6627-PF-48	29.5	16.5	133	2	a	Behind	24	0	Retained	09/26/2023
A1	NHH-65B-R2B	72	11.9	80	3	a	Front	36	-7	Retained	09/26/2023
A1	NHH-65B-R2B	72	11.9	80	3	b	Front	36	7	Retained	09/26/2023
R3	RF4439d-25A	15	15	80	3	a	Behind	24	0	Retained	09/26/2023
R4	RF4440d-13A	15	15	80	3	a	Behind	66	0	Retained	09/26/2023
R2	MT6407-77A	35.1	16.1	34	4	a	Front	24	0	Retained	09/26/2023
A7	LPA-80080-4CF	47.2	5.5	18	5	a	Front	24	0	Retained	09/26/2023

Sector: **B**

12/18/2024

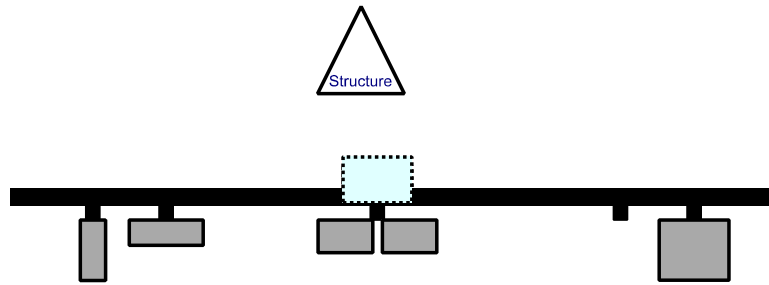
Structure Type: Monopole

10269449

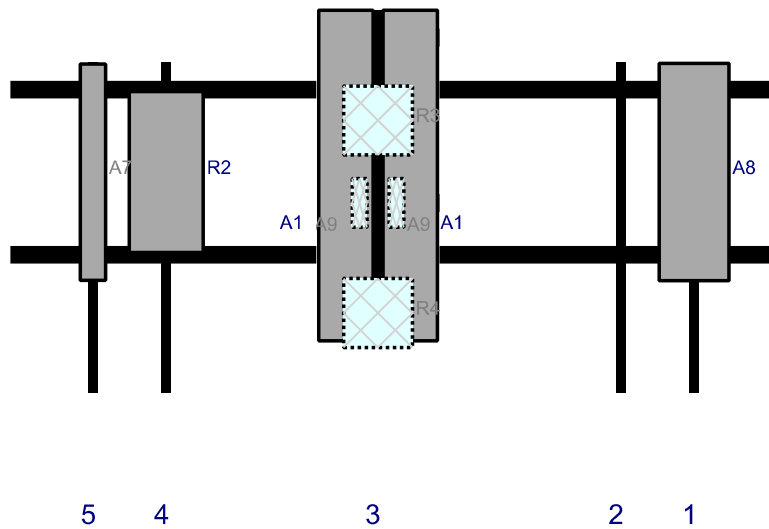
Mount Elev: 176.50

Page: 2

Plan View



Front View - Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A8	LNX-6513DS-A1	47.4	15.2	149	1	a	Front	24	0	Retained	09/26/2024
A1	NHH-65B-R2B	72	11.9	80	3	a	Front	36	-7	Retained	09/26/2023
A1	NHH-65B-R2B	72	11.9	80	3	b	Front	36	7	Retained	09/26/2023
R3	RF4439d-25A	15	15	80	3	a	Behind	24	0	Retained	09/26/2023
R4	RF4440d-13A	15	15	80	3	a	Behind	66	0	Retained	09/26/2023
R2	MT6407-77A	35.1	16.1	34	4	a	Front	24	0	Retained	09/26/2023
A7	LPA-80080-4CF	47.2	5.5	18	5	a	Front	24	0	Retained	09/26/2023

Sector: C

12/18/2024

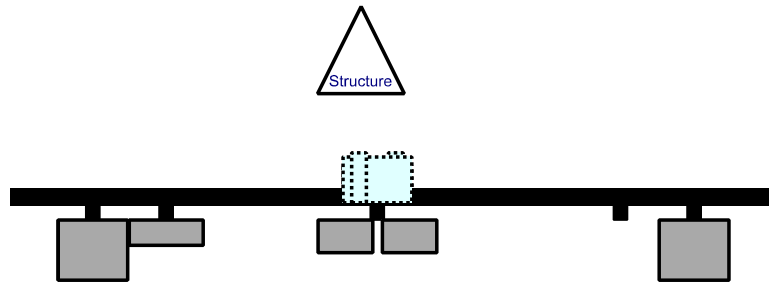
Structure Type: Monopole

10269449

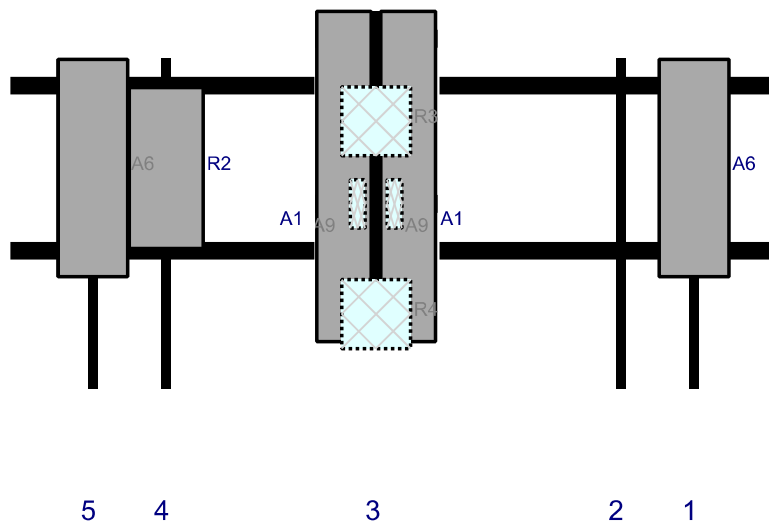
Mount Elev: 176.50

Page: 3

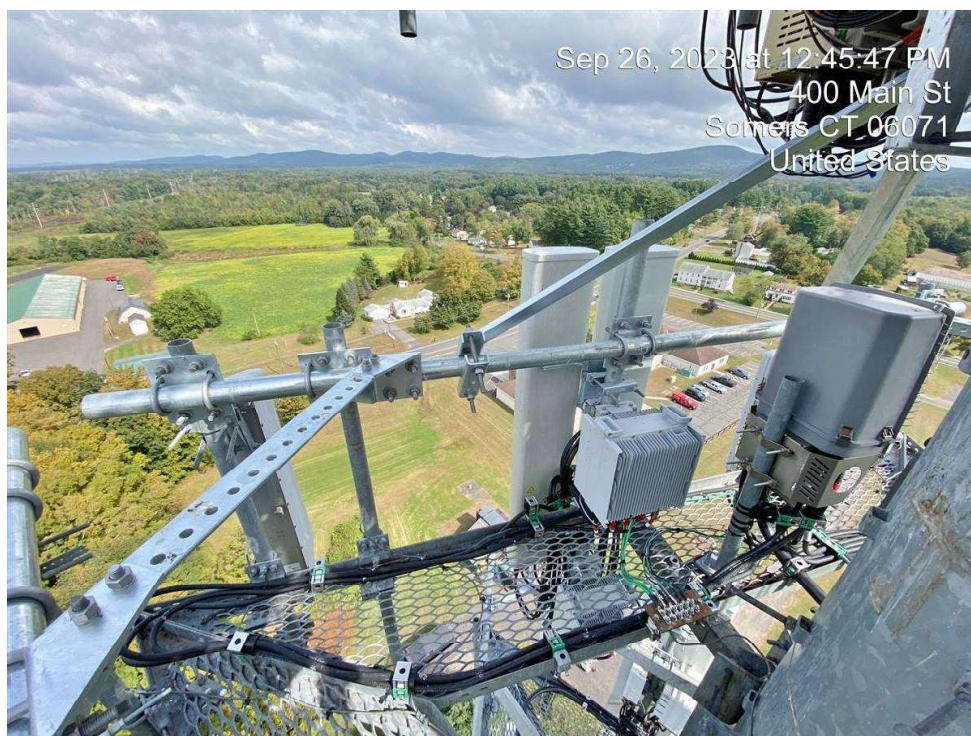
Plan View

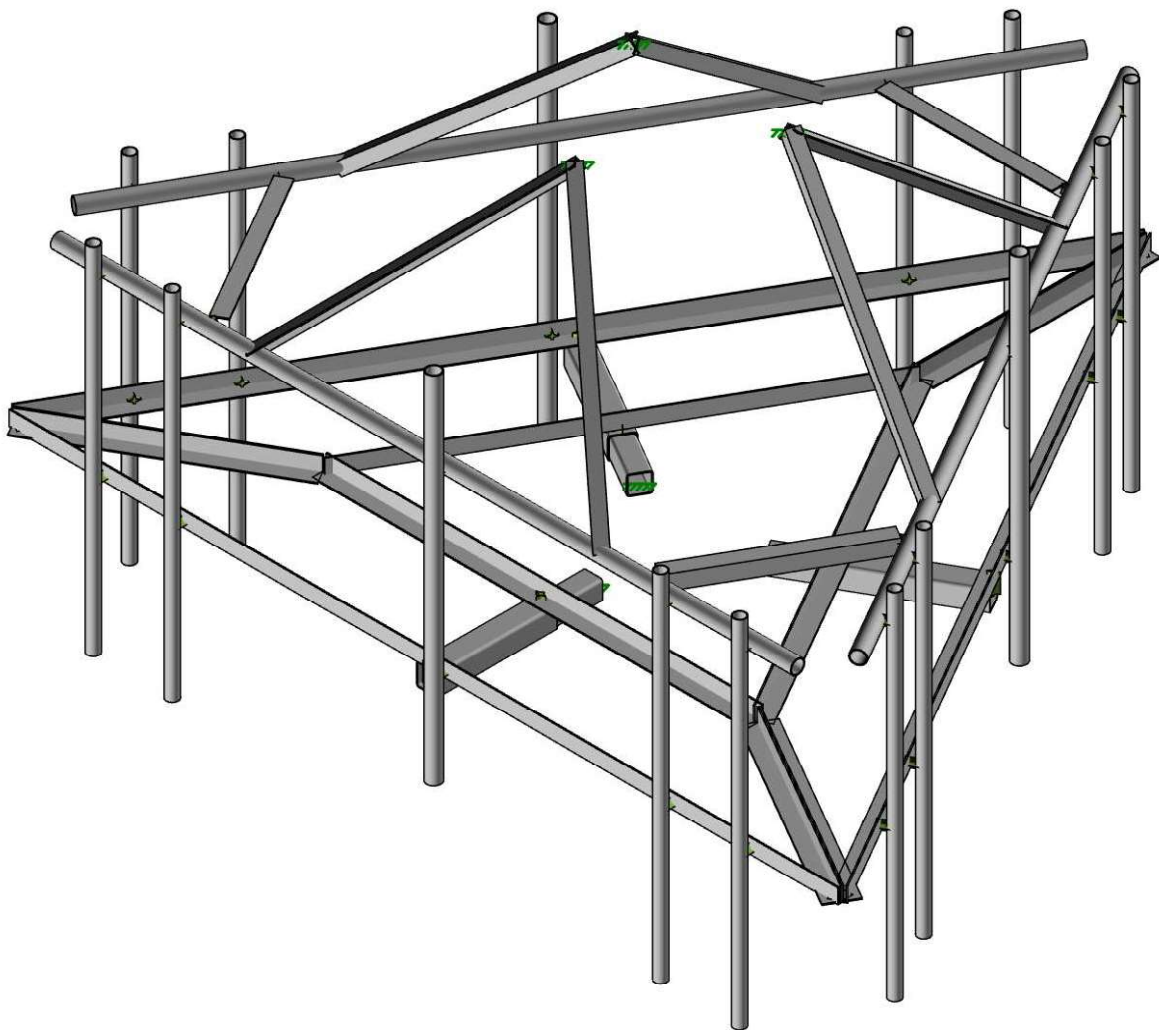
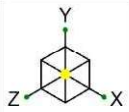


Front View - Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A6	LPA-80063-4CF-EDIN	47.4	15.2	149	1	a	Front	24	0	Retained	09/26/2023
A1	NHH-65B-R2B	72	11.9	80	3	a	Front	36	-7	Retained	09/26/2023
A1	NHH-65B-R2B	72	11.9	80	3	b	Front	36	7	Retained	09/26/2023
R3	RF4439d-25A	15	15	80	3	a	Behind	18	0	Retained	09/26/2023
R4	RF4440d-13A	15	15	80	3	a	Behind	66	0	Retained	09/26/2023
A9	BSF0020F3V1-1	10.6	3.2	80	3	a	Behind	42	-4	Added	
A9	BSF0020F3V1-1	10.6	3.2	80	3	b	Behind	42	4	Added	
R2	MT6407-77A	35.1	16.1	34	4	a	Front	24	0	Retained	09/26/2023
A6	LPA-80063-4CF-EDIN	47.4	15.2	18	5	a	Front	24	0	Retained	09/26/2023





Envelope Only Solution

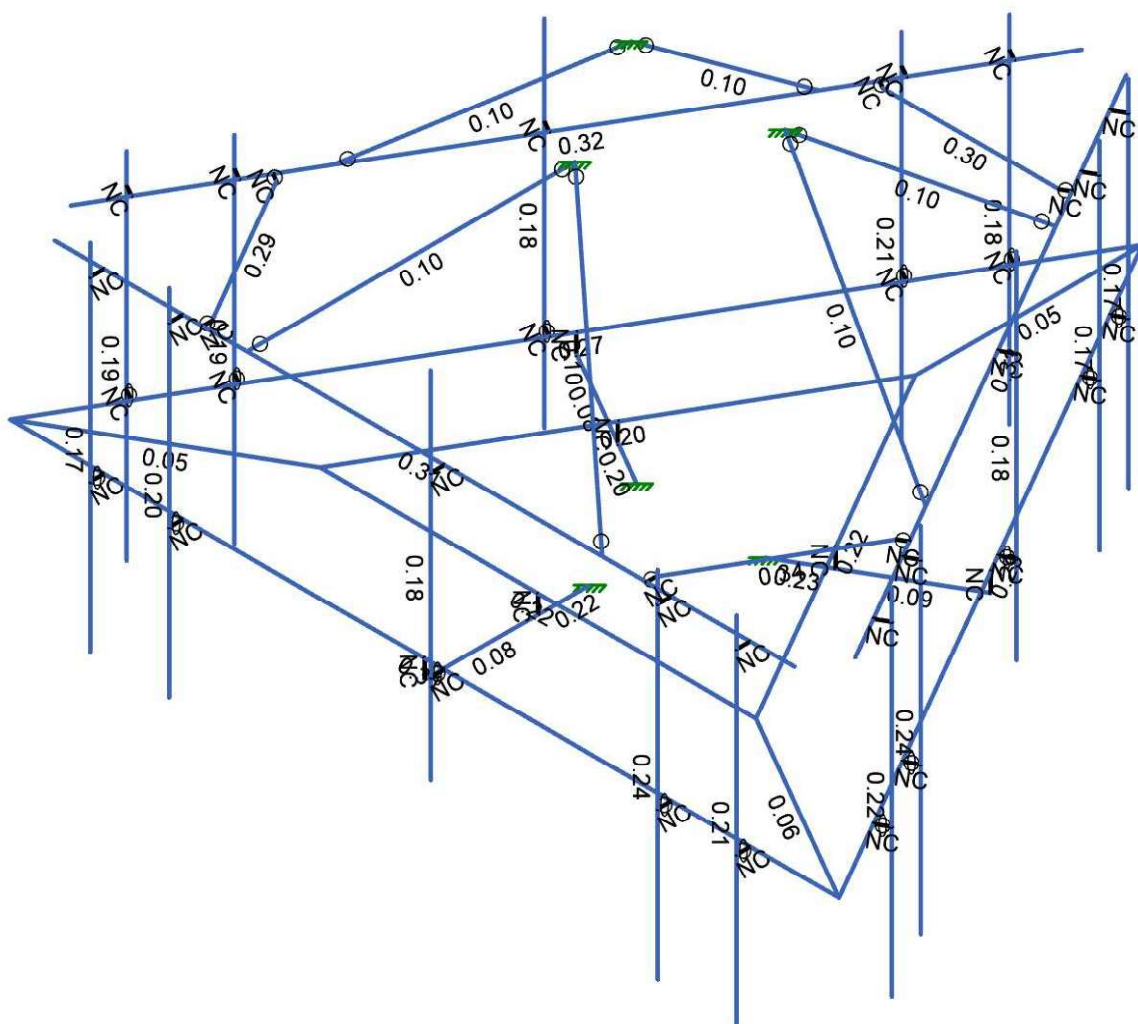
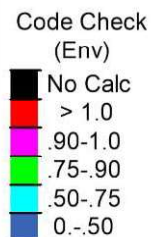


Colliers Engineering & De...

SK-1

Dec 18, 2024 at 02:10 PM

5000242675-VZW_MT_LO_...



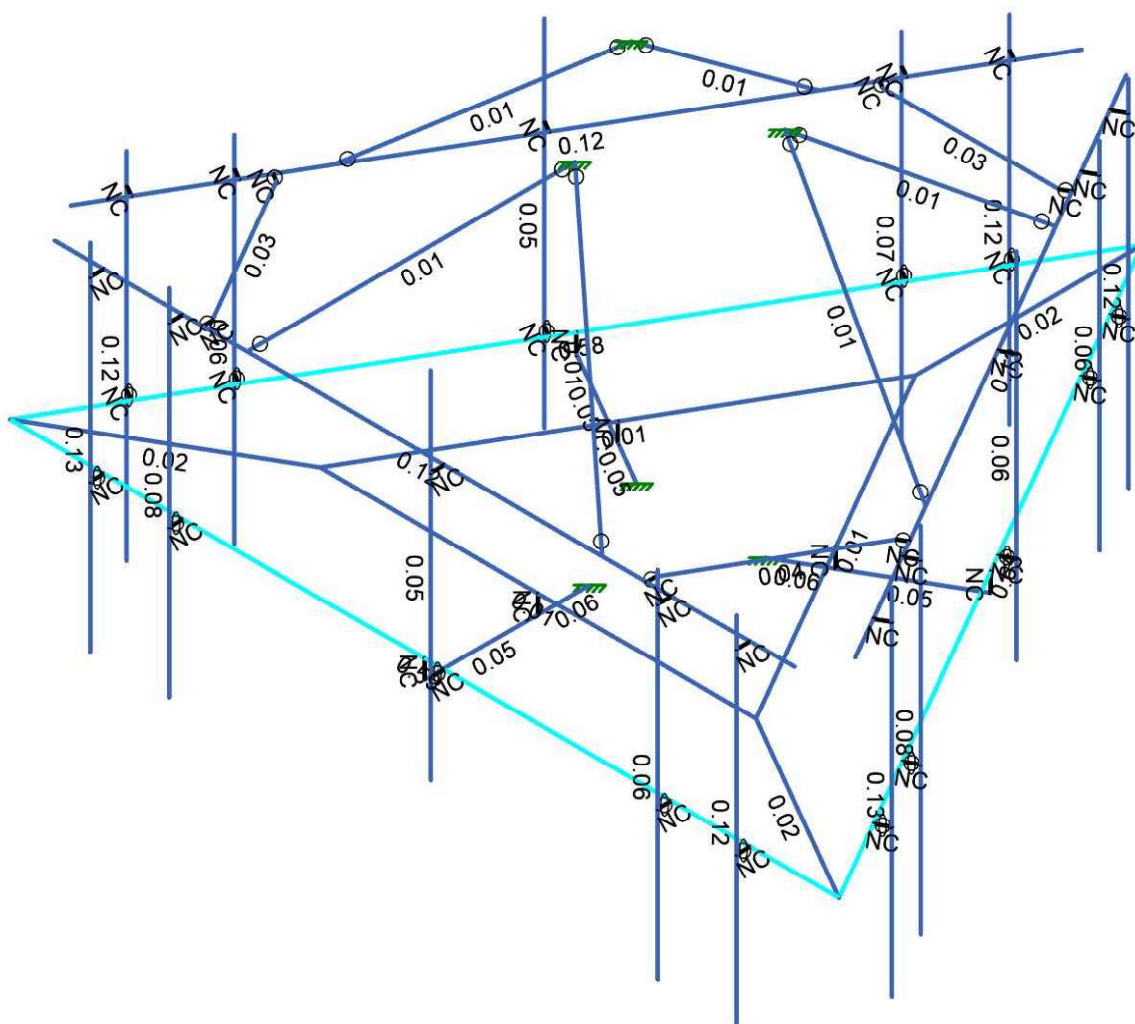
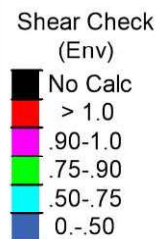
Member Code Checks Displayed (Enveloped)
Envelope Only Solution



SK-1

Dec 18, 2024 at 05:46 PM

5000242675-VZW_MT_LO_...



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution



SK-2

Dec 18, 2024 at 05:47 PM

5000242675-VZW_MT_LO_...

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Point	Distributed	Area(Member)
1	Antenna D	None				138		
2	Antenna Di	None				138		
3	Antenna Wo (0 Deg)	None				138		
4	Antenna Wo (30 Deg)	None				138		
5	Antenna Wo (60 Deg)	None				138		
6	Antenna Wo (90 Deg)	None				138		
7	Antenna Wo (120 Deg)	None				138		
8	Antenna Wo (150 Deg)	None				138		
9	Antenna Wo (180 Deg)	None				138		
10	Antenna Wo (210 Deg)	None				138		
11	Antenna Wo (240 Deg)	None				138		
12	Antenna Wo (270 Deg)	None				138		
13	Antenna Wo (300 Deg)	None				138		
14	Antenna Wo (330 Deg)	None				138		
15	Antenna Wi (0 Deg)	None				138		
16	Antenna Wi (30 Deg)	None				138		
17	Antenna Wi (60 Deg)	None				138		
18	Antenna Wi (90 Deg)	None				138		
19	Antenna Wi (120 Deg)	None				138		
20	Antenna Wi (150 Deg)	None				138		
21	Antenna Wi (180 Deg)	None				138		
22	Antenna Wi (210 Deg)	None				138		
23	Antenna Wi (240 Deg)	None				138		
24	Antenna Wi (270 Deg)	None				138		
25	Antenna Wi (300 Deg)	None				138		
26	Antenna Wi (330 Deg)	None				138		
27	Antenna Wm (0 Deg)	None				138		
28	Antenna Wm (30 Deg)	None				138		
29	Antenna Wm (60 Deg)	None				138		
30	Antenna Wm (90 Deg)	None				138		
31	Antenna Wm (120 Deg)	None				138		
32	Antenna Wm (150 Deg)	None				138		
33	Antenna Wm (180 Deg)	None				138		
34	Antenna Wm (210 Deg)	None				138		
35	Antenna Wm (240 Deg)	None				138		
36	Antenna Wm (270 Deg)	None				138		
37	Antenna Wm (300 Deg)	None				138		
38	Antenna Wm (330 Deg)	None				138		
39	Structure D	None		-1				3
40	Structure Di	None					42	3
41	Structure Wo (0 Deg)	None					84	
42	Structure Wo (30 Deg)	None					84	
43	Structure Wo (60 Deg)	None					84	
44	Structure Wo (90 Deg)	None					84	
45	Structure Wo (120 Deg)	None					84	
46	Structure Wo (150 Deg)	None					84	
47	Structure Wo (180 Deg)	None					84	
48	Structure Wo (210 Deg)	None					84	
49	Structure Wo (240 Deg)	None					84	
50	Structure Wo (270 Deg)	None					84	
51	Structure Wo (300 Deg)	None					84	
52	Structure Wo (330 Deg)	None					84	
53	Structure Wi (0 Deg)	None					84	
54	Structure Wi (30 Deg)	None					84	
55	Structure Wi (60 Deg)	None					84	

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Point	Distributed	Area(Member)
56	Structure Wi (90 Deg)	None					84	
57	Structure Wi (120 Deg)	None					84	
58	Structure Wi (150 Deg)	None					84	
59	Structure Wi (180 Deg)	None					84	
60	Structure Wi (210 Deg)	None					84	
61	Structure Wi (240 Deg)	None					84	
62	Structure Wi (270 Deg)	None					84	
63	Structure Wi (300 Deg)	None					84	
64	Structure Wi (330 Deg)	None					84	
65	Structure Wm (0 Deg)	None					84	
66	Structure Wm (30 Deg)	None					84	
67	Structure Wm (60 Deg)	None					84	
68	Structure Wm (90 Deg)	None					84	
69	Structure Wm (120 Deg)	None					84	
70	Structure Wm (150 Deg)	None					84	
71	Structure Wm (180 Deg)	None					84	
72	Structure Wm (210 Deg)	None					84	
73	Structure Wm (240 Deg)	None					84	
74	Structure Wm (270 Deg)	None					84	
75	Structure Wm (300 Deg)	None					84	
76	Structure Wm (330 Deg)	None					84	
77	Lm1	None				1		
78	Lm2	None				1		
79	Lv1	None				1		
80	Lv2	None				1		
81	Antenna Ev	None				138		
82	Antenna Eh (0 Deg)	None				92		
83	Antenna Eh (90 Deg)	None				92		
84	Structure Ev	ELY		-0.037				3
85	Structure Eh (0 Deg)	ELZ			-0.093			3
86	Structure Eh (90 Deg)	ELX	0.093					3
87	BLC 39 Transient Area Loads	None					27	
88	BLC 40 Transient Area Loads	None					27	
89	BLC 84 Transient Area Loads	None					27	
90	BLC 85 Transient Area Loads	None					27	
91	BLC 86 Transient Area Loads	None					27	

Load Combinations

	Description	Solve	P-Delta	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor
1	1.2D+1.0Wo (0 Deg)	Yes	Y	1	1.2	39	1.2	3	1	41	1							
2	1.2D+1.0Wo (30 Deg)	Yes	Y	1	1.2	39	1.2	4	1	42	1							
3	1.2D+1.0Wo (60 Deg)	Yes	Y	1	1.2	39	1.2	5	1	43	1							
4	1.2D+1.0Wo (90 Deg)	Yes	Y	1	1.2	39	1.2	6	1	44	1							
5	1.2D+1.0Wo (120 Deg)	Yes	Y	1	1.2	39	1.2	7	1	45	1							
6	1.2D+1.0Wo (150 Deg)	Yes	Y	1	1.2	39	1.2	8	1	46	1							
7	1.2D+1.0Wo (180 Deg)	Yes	Y	1	1.2	39	1.2	9	1	47	1							
8	1.2D+1.0Wo (210 Deg)	Yes	Y	1	1.2	39	1.2	10	1	48	1							
9	1.2D+1.0Wo (240 Deg)	Yes	Y	1	1.2	39	1.2	11	1	49	1							
10	1.2D+1.0Wo (270 Deg)	Yes	Y	1	1.2	39	1.2	12	1	50	1							
11	1.2D+1.0Wo (300 Deg)	Yes	Y	1	1.2	39	1.2	13	1	51	1							
12	1.2D+1.0Wo (330 Deg)	Yes	Y	1	1.2	39	1.2	14	1	52	1							
13	1.2D + 1.0Di + 1.0Wi (0 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	15	1	53	1			
14	1.2D + 1.0Di + 1.0Wi (30 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	16	1	54	1			
15	1.2D + 1.0Di + 1.0Wi (60 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	17	1	55	1			
16	1.2D + 1.0Di + 1.0Wi (90 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	18	1	56	1			

Load Combinations (Continued)

Description	Solve	P-Delta	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor
17 1.2D + 1.0Di + 1.0Wi (120 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	19	1	57	1				
18 1.2D + 1.0Di + 1.0Wi (150 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	20	1	58	1				
19 1.2D + 1.0Di + 1.0Wi (180 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	21	1	59	1				
20 1.2D + 1.0Di + 1.0Wi (210 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	22	1	60	1				
21 1.2D + 1.0Di + 1.0Wi (240 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	23	1	61	1				
22 1.2D + 1.0Di + 1.0Wi (270 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	24	1	62	1				
23 1.2D + 1.0Di + 1.0Wi (300 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	25	1	63	1				
24 1.2D + 1.0Di + 1.0Wi (330 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	26	1	64	1				
25 1.2D + 1.5Lm1 + 1.0Wm (0 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	27	1	65	1						
26 1.2D + 1.5Lm1 + 1.0Wm (30 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	28	1	66	1						
27 1.2D + 1.5Lm1 + 1.0Wm (60 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	29	1	67	1						
28 1.2D + 1.5Lm1 + 1.0Wm (90 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	30	1	68	1						
29 1.2D + 1.5Lm1 + 1.0Wm (120 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	31	1	69	1						
30 1.2D + 1.5Lm1 + 1.0Wm (150 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	32	1	70	1						
31 1.2D + 1.5Lm1 + 1.0Wm (180 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	33	1	71	1						
32 1.2D + 1.5Lm1 + 1.0Wm (210 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	34	1	72	1						
33 1.2D + 1.5Lm1 + 1.0Wm (240 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	35	1	73	1						
34 1.2D + 1.5Lm1 + 1.0Wm (270 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	36	1	74	1						
35 1.2D + 1.5Lm1 + 1.0Wm (300 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	37	1	75	1						
36 1.2D + 1.5Lm1 + 1.0Wm (330 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	38	1	76	1						
37 1.2D + 1.5Lm2 + 1.0Wm (0 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	27	1	65	1						
38 1.2D + 1.5Lm2 + 1.0Wm (30 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	28	1	66	1						
39 1.2D + 1.5Lm2 + 1.0Wm (60 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	29	1	67	1						
40 1.2D + 1.5Lm2 + 1.0Wm (90 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	30	1	68	1						
41 1.2D + 1.5Lm2 + 1.0Wm (120 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	31	1	69	1						
42 1.2D + 1.5Lm2 + 1.0Wm (150 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	32	1	70	1						
43 1.2D + 1.5Lm2 + 1.0Wm (180 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	33	1	71	1						
44 1.2D + 1.5Lm2 + 1.0Wm (210 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	34	1	72	1						
45 1.2D + 1.5Lm2 + 1.0Wm (240 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	35	1	73	1						
46 1.2D + 1.5Lm2 + 1.0Wm (270 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	36	1	74	1						
47 1.2D + 1.5Lm2 + 1.0Wm (300 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	37	1	75	1						
48 1.2D + 1.5Lm2 + 1.0Wm (330 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	38	1	76	1						
49 1.2D + 1.5Lv1	Yes	Y	1	1.2	39	1.2	79	1.5										
50 1.2D + 1.5Lv2	Yes	Y	1	1.2	39	1.2	80	1.5										
51 1.4D	Yes	Y	1	1.4	39	1.4												
52 1.2D + 1.0Ev + 1.0Eh (0 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	1	83		ELZ	1	ELX	
53 1.2D + 1.0Ev + 1.0Eh (30 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	0.866	83	0.5	ELZ	0.866	ELX	0.5
54 1.2D + 1.0Ev + 1.0Eh (60 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	0.5	83	0.866	ELZ	0.5	ELX	0.866
55 1.2D + 1.0Ev + 1.0Eh (90 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82		83	1	ELZ		ELX	1
56 1.2D + 1.0Ev + 1.0Eh (120 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-0.5	83	0.866	ELZ	-0.5	ELX	0.866
57 1.2D + 1.0Ev + 1.0Eh (150 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-0.866	83	0.5	ELZ	-0.866	ELX	0.5
58 1.2D + 1.0Ev + 1.0Eh (180 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-1	83		ELZ	-1	ELX	
59 1.2D + 1.0Ev + 1.0Eh (210 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-0.866	83	-0.5	ELZ	-0.866	ELX	-0.5
60 1.2D + 1.0Ev + 1.0Eh (240 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-0.5	83	-0.866	ELZ	-0.5	ELX	-0.866
61 1.2D + 1.0Ev + 1.0Eh (270 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82		83	-1	ELZ		ELX	-1
62 1.2D + 1.0Ev + 1.0Eh (300 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	0.5	83	-0.866	ELZ	0.5	ELX	-0.866
63 1.2D + 1.0Ev + 1.0Eh (330 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	0.866	83	-0.5	ELZ	0.866	ELX	-0.5
64 0.9D - 1.0Ev + 1.0Eh (0 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	1	83		ELZ	1	ELX	
65 0.9D - 1.0Ev + 1.0Eh (30 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	0.866	83	0.5	ELZ	0.866	ELX	0.5
66 0.9D - 1.0Ev + 1.0Eh (60 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	0.5	83	0.866	ELZ	0.5	ELX	0.866
67 0.9D - 1.0Ev + 1.0Eh (90 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82		83	1	ELZ		ELX	1
68 0.9D - 1.0Ev + 1.0Eh (120 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-0.5	83	0.866	ELZ	-0.5	ELX	0.866
69 0.9D - 1.0Ev + 1.0Eh (150 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-0.866	83	0.5	ELZ	-0.866	ELX	0.5
70 0.9D - 1.0Ev + 1.0Eh (180 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-1	83		ELZ	-1	ELX	
71 0.9D - 1.0Ev + 1.0Eh (210 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-0.866	83	-0.5	ELZ	-0.866	ELX	-0.5

Load Combinations (Continued)

Description	Solve	P-Delta	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor
72 0.9D - 1.0Ev + 1.0Eh (240 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-0.5	83	-0.866	ELZ	-0.5	ELX	-0.866		
73 0.9D - 1.0Ev + 1.0Eh (270 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82		83	-1	ELZ		ELX	-1		
74 0.9D - 1.0Ev + 1.0Eh (300 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	0.5	83	-0.866	ELZ	0.5	ELX	-0.866		
75 0.9D - 1.0Ev + 1.0Eh (330 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	0.866	83	-0.5	ELZ	0.866	ELX	-0.5		

Hot Rolled Steel Section Sets

Label	Shape	Type	Design List	Material	Design Rule	Area [in ²]	Iyy [in ⁴]	Izz [in ⁴]	J [in ⁴]
1 Face Horizontal	L3X3X4	None	None	A36 Gr.36	Typical	1.44	1.23	1.23	0.031
2 Inner Horizontal	L3X3X4	None	None	A36 Gr.36	Typical	1.44	1.23	1.23	0.031
3 Corner Double Angle	LL3X3X4X0	None	None	A36 Gr.36	Typical	2.88	4.5	2.46	0.063
4 Standoff Arm Inner Sleeve	HSS4X4X4	None	None	A500 Gr.B Rect	Typical	3.37	7.8	7.8	12.8
5 Standoff Arm Outer Sleeve	HSS4.5X4.5X4	None	None	A500 Gr.B Rect	Typical	3.84	11.4	11.4	18.5
6 Pipe Mount (P2 STD)	PIPE 2.0	None	None	A53 Gr.B	Typical	1.02	0.627	0.627	1.25
7 Pipe Mount (P2.5 STD)	PIPE 2.5	None	None	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
8 Mod Support Rail	PIPE 2.5	None	None	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
9 Mod SR Corner Angle	L3X3X4	None	None	A36 Gr.36	Typical	1.44	1.23	1.23	0.031
10 Mod Vkit	L2.5X2.5X4	None	None	A36 Gr.36	Typical	1.19	0.692	0.692	0.026

Hot Rolled Steel Properties

Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e ⁻⁵ F ⁻¹]	Density [k/ft ³]	Yield [ksi]	Ry	Fu [ksi]	Rt
1 A992	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
2 A36 Gr.36	29000	11154	0.3	0.65	0.49	36	1.5	58	1.2
3 A572 Gr.50	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
4 A500 Gr.B RND	29000	11154	0.3	0.65	0.527	42	1.4	58	1.3
5 A500 Gr.B Rect	29000	11154	0.3	0.65	0.527	46	1.4	58	1.3
6 A53 Gr.B	29000	11154	0.3	0.65	0.49	35	1.6	60	1.2
7 A1085	29000	11154	0.3	0.65	0.49	50	1.4	65	1.3

Member Primary Data

Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
1 M1	N1	N2		Face Horizontal	None	None	A36 Gr.36	Typical
2 M2	N3	N4		Inner Horizontal	None	None	A36 Gr.36	Typical
3 M3	N4	N1	180	Corner Double Angle	None	None	A36 Gr.36	Typical
4 M17	N24A	N25		RIGID	None	None	RIGID	Typical
5 M23	N2	N44		Face Horizontal	None	None	A36 Gr.36	Typical
6 M24	N45	N3		Inner Horizontal	None	None	A36 Gr.36	Typical
7 M25	N3	N2	180	Corner Double Angle	None	None	A36 Gr.36	Typical
8 M45	N44	N1		Face Horizontal	None	None	A36 Gr.36	Typical
9 M46	N4	N45		Inner Horizontal	None	None	A36 Gr.36	Typical
10 M47	N45	N44	180	Corner Double Angle	None	None	A36 Gr.36	Typical
11 M12	N17A	N8	90	RIGID	None	None	RIGID	Typical
12 M13	N16	N5	90	RIGID	None	None	RIGID	Typical
13 M13A	N24	N18A		Standoff Arm Inner Sleeve	None	None	A500 Gr.B Rect	Typical
14 M14	N18A	N5		Standoff Arm Outer Sleeve	None	None	A500 Gr.B Rect	Typical
15 M15	N15	N20	210	RIGID	None	None	RIGID	Typical
16 M16	N14	N19	210	RIGID	None	None	RIGID	Typical
17 M17A	N21	N24B		Standoff Arm Inner Sleeve	None	None	A500 Gr.B Rect	Typical
18 M18	N24B	N19		Standoff Arm Outer Sleeve	None	None	A500 Gr.B Rect	Typical
19 M19	N18	N26	330	RIGID	None	None	RIGID	Typical
20 M20	N17	N25A	330	RIGID	None	None	RIGID	Typical
21 M21	N27	N30		Standoff Arm Inner Sleeve	None	None	A500 Gr.B Rect	Typical
22 M22	N30	N25A		Standoff Arm Outer Sleeve	None	None	A500 Gr.B Rect	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
23	MP1A	N28	N29		Pipe Mount (P2 STD)	None	None	A53 Gr.B	Typical
24	M24A	N30A	N31		RIGID	None	None	RIGID	Typical
25	MP2A	N32	N33		Pipe Mount (P2 STD)	None	None	A53 Gr.B	Typical
26	M26	N34	N35		RIGID	None	None	RIGID	Typical
27	MP3A	N36	N37		Pipe Mount (P2.5 STD)	None	None	A53 Gr.B	Typical
28	M28	N38	N39		RIGID	None	None	RIGID	Typical
29	MP4A	N40	N41		Pipe Mount (P2 STD)	None	None	A53 Gr.B	Typical
30	M30	N42	N43		RIGID	None	None	RIGID	Typical
31	MP5A	N44A	N45A		Pipe Mount (P2 STD)	None	None	A53 Gr.B	Typical
32	M32	N46	N47		RIGID	None	None	RIGID	Typical
33	MP1B	N49	N50		Pipe Mount (P2 STD)	None	None	A53 Gr.B	Typical
34	M34	N51	N52		RIGID	None	None	RIGID	Typical
35	MP2B	N53	N54		Pipe Mount (P2 STD)	None	None	A53 Gr.B	Typical
36	M36	N55	N56		RIGID	None	None	RIGID	Typical
37	MP3B	N57	N58		Pipe Mount (P2.5 STD)	None	None	A53 Gr.B	Typical
38	M38	N59	N60		RIGID	None	None	RIGID	Typical
39	MP4B	N61	N62		Pipe Mount (P2 STD)	None	None	A53 Gr.B	Typical
40	M40	N63	N64		RIGID	None	None	RIGID	Typical
41	MP5B	N65	N66		Pipe Mount (P2 STD)	None	None	A53 Gr.B	Typical
42	M42	N67	N68		RIGID	None	None	RIGID	Typical
43	MP1C	N70	N71		Pipe Mount (P2 STD)	None	None	A53 Gr.B	Typical
44	M44	N72	N73		RIGID	None	None	RIGID	Typical
45	MP2C	N74	N75		Pipe Mount (P2 STD)	None	None	A53 Gr.B	Typical
46	M46A	N76	N77		RIGID	None	None	RIGID	Typical
47	MP3C	N78	N79		Pipe Mount (P2.5 STD)	None	None	A53 Gr.B	Typical
48	M48	N80	N81		RIGID	None	None	RIGID	Typical
49	MP4C	N82	N83		Pipe Mount (P2 STD)	None	None	A53 Gr.B	Typical
50	M50	N84	N85		RIGID	None	None	RIGID	Typical
51	MP5C	N86	N87		Pipe Mount (P2 STD)	None	None	A53 Gr.B	Typical
52	M52	N91	N120		Mod Support Rail	None	None	A53 Gr.B	Typical
53	M53	N89	N90		RIGID	None	None	RIGID	Typical
54	M54	N121	N122		Mod Support Rail	None	None	A53 Gr.B	Typical
55	M55	N123	N124		Mod Support Rail	None	None	A53 Gr.B	Typical
56	M56	N92	N93		RIGID	None	None	RIGID	Typical
57	M57	N94	N95		RIGID	None	None	RIGID	Typical
58	M58	N96	N97		RIGID	None	None	RIGID	Typical
59	M59	N98	N99		RIGID	None	None	RIGID	Typical
60	M60	N100	N101		RIGID	None	None	RIGID	Typical
61	M61	N102	N103		RIGID	None	None	RIGID	Typical
62	M62	N104	N105		RIGID	None	None	RIGID	Typical
63	M63	N106	N107		RIGID	None	None	RIGID	Typical
64	M64	N108	N109		RIGID	None	None	RIGID	Typical
65	M65	N110	N111		RIGID	None	None	RIGID	Typical
66	M66	N112	N113		RIGID	None	None	RIGID	Typical
67	M67	N114	N115		RIGID	None	None	RIGID	Typical
68	M68	N116	N117		RIGID	None	None	RIGID	Typical
69	M69	N118	N119		RIGID	None	None	RIGID	Typical
70	M70	N126	N128		RIGID	None	None	RIGID	Typical
71	M76	N128	N152	90	Mod SR Corner Angle	None	None	A36 Gr.36	Typical
72	M79	N139	N137	90	Mod Vkit	None	None	A36 Gr.36	Typical
73	M80	N138	N137	180	Mod Vkit	None	None	A36 Gr.36	Typical
74	M81	N142	N140	90	Mod Vkit	None	None	A36 Gr.36	Typical
75	M82	N141	N140	180	Mod Vkit	None	None	A36 Gr.36	Typical
76	M83	N145	N143	90	Mod Vkit	None	None	A36 Gr.36	Typical
77	M84	N144	N143	180	Mod Vkit	None	None	A36 Gr.36	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
78	M88	N150	N152		RIGID	None	None	RIGID	Typical
79	M79A	N138A	N139A		RIGID	None	None	RIGID	Typical
80	M80A	N139A	N141A	90	Mod SR Corner Angle	None	None	A36 Gr.36	Typical
81	M81A	N140A	N141A		RIGID	None	None	RIGID	Typical
82	M82A	N142A	N143A		RIGID	None	None	RIGID	Typical
83	M83A	N143A	N145A	90	Mod SR Corner Angle	None	None	A36 Gr.36	Typical
84	M84A	N144A	N145A		RIGID	None	None	RIGID	Typical

Member Advanced Data

	Label	I Release	J Release	Col-Wall Vert Release	Physical	Deflection	Ratio Options	Seismic DR
1	M1				Yes	** NA **		None
2	M2				Yes	** NA **		None
3	M3				Yes	** NA **		None
4	M17	OOOXOX			Yes	** NA **		None
5	M23				Yes	** NA **		None
6	M24				Yes	** NA **		None
7	M25				Yes	** NA **		None
8	M45				Yes	** NA **		None
9	M46				Yes	** NA **		None
10	M47				Yes	** NA **		None
11	M12				Yes	** NA **		None
12	M13				Yes	** NA **		None
13	M13A				Yes	** NA **		None
14	M14				Yes	** NA **		None
15	M15				Yes	** NA **		None
16	M16				Yes	** NA **		None
17	M17A				Yes	** NA **		None
18	M18				Yes	** NA **		None
19	M19				Yes	** NA **		None
20	M20				Yes	** NA **		None
21	M21				Yes	** NA **		None
22	M22				Yes	** NA **		None
23	MP1A				Yes	** NA **		None
24	M24A	OOOXOX			Yes	** NA **		None
25	MP2A				Yes	** NA **		None
26	M26	OOOXOX			Yes	** NA **		None
27	MP3A				Yes	** NA **		None
28	M28	OOOXOX			Yes	** NA **		None
29	MP4A				Yes	** NA **		None
30	M30	OOOXOX			Yes	** NA **		None
31	MP5A				Yes	** NA **		None
32	M32	OOOXOX			Yes	** NA **		None
33	MP1B				Yes	** NA **		None
34	M34	OOOXOX			Yes	** NA **		None
35	MP2B				Yes	** NA **		None
36	M36	OOOXOX			Yes	** NA **		None
37	MP3B				Yes	** NA **		None
38	M38	OOOXOX			Yes	** NA **		None
39	MP4B				Yes	** NA **		None
40	M40	OOOXOX			Yes	** NA **		None
41	MP5B				Yes	** NA **		None
42	M42	OOOXOX			Yes	** NA **		None
43	MP1C				Yes	** NA **		None
44	M44	OOOXOX			Yes	** NA **		None
45	MP2C				Yes	** NA **		None

Member Advanced Data (Continued)

	Label	I Release	J Release	Col-Wall Vert Release	Physical	Deflection Ratio Options	Seismic DR
46	M46A	OOOXOX			Yes	** NA **	None
47	MP3C				Yes	** NA **	None
48	M48	OOOXOX			Yes	** NA **	None
49	MP4C				Yes	** NA **	None
50	M50	OOOXOX			Yes	** NA **	None
51	MP5C				Yes	** NA **	None
52	M52				Yes	** NA **	None
53	M53				Yes	** NA **	None
54	M54				Yes	** NA **	None
55	M55				Yes	** NA **	None
56	M56				Yes	** NA **	None
57	M57				Yes	** NA **	None
58	M58				Yes	** NA **	None
59	M59				Yes	** NA **	None
60	M60				Yes	** NA **	None
61	M61				Yes	** NA **	None
62	M62				Yes	** NA **	None
63	M63				Yes	** NA **	None
64	M64				Yes	** NA **	None
65	M65				Yes	** NA **	None
66	M66				Yes	** NA **	None
67	M67				Yes	** NA **	None
68	M68				Yes	** NA **	None
69	M69				Yes	** NA **	None
70	M70	OOOOOX			Yes	** NA **	None
71	M76				Yes	** NA **	None
72	M79	BenPIN	BenPIN		Yes	** NA **	None
73	M80	BenPIN	BenPIN		Yes	** NA **	None
74	M81	BenPIN	BenPIN		Yes	** NA **	None
75	M82	BenPIN	BenPIN		Yes	** NA **	None
76	M83	BenPIN	BenPIN		Yes	** NA **	None
77	M84	BenPIN	BenPIN		Yes	** NA **	None
78	M88	OOOOOX			Yes	** NA **	None
79	M79A	OOOOOX			Yes	** NA **	None
80	M80A				Yes	** NA **	None
81	M81A	OOOOOX			Yes	** NA **	None
82	M82A	OOOOOX			Yes	** NA **	None
83	M83A				Yes	** NA **	None
84	M84A	OOOOOX			Yes	** NA **	None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	Y	-21.85	0.67
2	MP3A	My	-0.022	0.67
3	MP3A	Mz	-0.013	0.67
4	MP3A	Y	-21.85	5.33
5	MP3A	My	-0.022	5.33
6	MP3A	Mz	-0.013	5.33
7	MP3B	Y	-21.85	0.67
8	MP3B	My	0.022	0.67
9	MP3B	Mz	-0.013	0.67
10	MP3B	Y	-21.85	5.33
11	MP3B	My	0.022	5.33
12	MP3B	Mz	-0.013	5.33
13	MP3C	Y	-21.85	0.67

Member Point Loads (BLC 1 : Antenna D) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
14	MP3C	My	-0.000113	0.67
15	MP3C	Mz	0.025	0.67
16	MP3C	Y	-21.85	5.33
17	MP3C	My	-0.000113	5.33
18	MP3C	Mz	0.025	5.33
19	MP3A	Y	-21.85	0.67
20	MP3A	My	-0.022	0.67
21	MP3A	Mz	0.013	0.67
22	MP3A	Y	-21.85	5.33
23	MP3A	My	-0.022	5.33
24	MP3A	Mz	0.013	5.33
25	MP3B	Y	-21.85	0.67
26	MP3B	My	-0.000113	0.67
27	MP3B	Mz	-0.025	0.67
28	MP3B	Y	-21.85	5.33
29	MP3B	My	-0.000113	5.33
30	MP3B	Mz	-0.025	5.33
31	MP3C	Y	-21.85	0.67
32	MP3C	My	0.022	0.67
33	MP3C	Mz	0.013	0.67
34	MP3C	Y	-21.85	5.33
35	MP3C	My	0.022	5.33
36	MP3C	Mz	0.013	5.33
37	MP4A	Y	-43.55	1.04
38	MP4A	My	-0.044	1.04
39	MP4A	Mz	0	1.04
40	MP4A	Y	-43.55	2.96
41	MP4A	My	-0.044	2.96
42	MP4A	Mz	0	2.96
43	MP4B	Y	-43.55	1.04
44	MP4B	My	0.022	1.04
45	MP4B	Mz	-0.038	1.04
46	MP4B	Y	-43.55	2.96
47	MP4B	My	0.022	2.96
48	MP4B	Mz	-0.038	2.96
49	MP4C	Y	-43.55	1.04
50	MP4C	My	0.022	1.04
51	MP4C	Mz	0.038	1.04
52	MP4C	Y	-43.55	2.96
53	MP4C	My	0.022	2.96
54	MP4C	Mz	0.038	2.96
55	MP3A	Y	-35.15	2
56	MP3A	My	0.035	2
57	MP3A	Mz	0	2
58	MP3A	Y	-35.15	2
59	MP3A	My	0.035	2
60	MP3A	Mz	0	2
61	MP3B	Y	-35.15	2
62	MP3B	My	-0.018	2
63	MP3B	Mz	0.03	2
64	MP3B	Y	-35.15	2
65	MP3B	My	-0.018	2
66	MP3B	Mz	0.03	2
67	MP3C	Y	-35.15	1
68	MP3C	My	-0.018	1

Member Point Loads (BLC 1 : Antenna D) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
69	MP3C	Mz	-0.03	1
70	MP3C	Y	-35.15	2
71	MP3C	My	-0.018	2
72	MP3C	Mz	-0.03	2
73	MP3A	Y	-42.2	5.5
74	MP3A	My	0.042	5.5
75	MP3A	Mz	0	5.5
76	MP3A	Y	-42.2	5.5
77	MP3A	My	0.042	5.5
78	MP3A	Mz	0	5.5
79	MP3B	Y	-42.2	5.5
80	MP3B	My	-0.021	5.5
81	MP3B	Mz	0.037	5.5
82	MP3B	Y	-42.2	5.5
83	MP3B	My	-0.021	5.5
84	MP3B	Mz	0.037	5.5
85	MP3C	Y	-42.2	5.5
86	MP3C	My	-0.021	5.5
87	MP3C	Mz	-0.037	5.5
88	MP3C	Y	-42.2	5.5
89	MP3C	My	-0.021	5.5
90	MP3C	Mz	-0.037	5.5
91	MP2A	Y	-16	2
92	MP2A	My	0.008	2
93	MP2A	Mz	0	2
94	MP2A	Y	-16	2
95	MP2A	My	0.008	2
96	MP2A	Mz	0	2
97	MP1C	Y	-10	0.53
98	MP1C	My	0.006	0.53
99	MP1C	Mz	0.01	0.53
100	MP1C	Y	-10	3.47
101	MP1C	My	0.006	3.47
102	MP1C	Mz	0.01	3.47
103	MP5C	Y	-10	0.53
104	MP5C	My	0.006	0.53
105	MP5C	Mz	0.01	0.53
106	MP5C	Y	-10	3.47
107	MP5C	My	0.006	3.47
108	MP5C	Mz	0.01	3.47
109	MP1A	Y	-6	0.53
110	MP1A	My	-0.007	0.53
111	MP1A	Mz	0	0.53
112	MP1A	Y	-6	3.47
113	MP1A	My	-0.007	3.47
114	MP1A	Mz	0	3.47
115	MP5A	Y	-6	0.53
116	MP5A	My	-0.007	0.53
117	MP5A	Mz	0	0.53
118	MP5A	Y	-6	3.47
119	MP5A	My	-0.007	3.47
120	MP5A	Mz	0	3.47
121	MP5B	Y	-6	0.53
122	MP5B	My	0.004	0.53
123	MP5B	Mz	-0.006	0.53

Member Point Loads (BLC 1 : Antenna D) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
124	MP5B	Y	-6	3.47
125	MP5B	My	0.004	3.47
126	MP5B	Mz	-0.006	3.47
127	MP1B	Y	-10	0.53
128	MP1B	My	0.006	0.53
129	MP1B	Mz	-0.01	0.53
130	MP1B	Y	-10	3.47
131	MP1B	My	0.006	3.47
132	MP1B	Mz	-0.01	3.47
133	MP3C	Y	-17.6	3.5
134	MP3C	My	-0.014	3.5
135	MP3C	Mz	-0.012	3.5
136	MP3C	Y	-17.6	3.5
137	MP3C	My	-0.004	3.5
138	MP3C	Mz	-0.018	3.5

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	Y	-98.548	0.67
2	MP3A	My	-0.099	0.67
3	MP3A	Mz	-0.057	0.67
4	MP3A	Y	-98.548	5.33
5	MP3A	My	-0.099	5.33
6	MP3A	Mz	-0.057	5.33
7	MP3B	Y	-98.548	0.67
8	MP3B	My	0.099	0.67
9	MP3B	Mz	-0.057	0.67
10	MP3B	Y	-98.548	5.33
11	MP3B	My	0.099	5.33
12	MP3B	Mz	-0.057	5.33
13	MP3C	Y	-98.548	0.67
14	MP3C	My	-0.000511	0.67
15	MP3C	Mz	0.114	0.67
16	MP3C	Y	-98.548	5.33
17	MP3C	My	-0.000511	5.33
18	MP3C	Mz	0.114	5.33
19	MP3A	Y	-98.548	0.67
20	MP3A	My	-0.099	0.67
21	MP3A	Mz	0.057	0.67
22	MP3A	Y	-98.548	5.33
23	MP3A	My	-0.099	5.33
24	MP3A	Mz	0.057	5.33
25	MP3B	Y	-98.548	0.67
26	MP3B	My	-0.000511	0.67
27	MP3B	Mz	-0.114	0.67
28	MP3B	Y	-98.548	5.33
29	MP3B	My	-0.000511	5.33
30	MP3B	Mz	-0.114	5.33
31	MP3C	Y	-98.548	0.67
32	MP3C	My	0.099	0.67
33	MP3C	Mz	0.057	0.67
34	MP3C	Y	-98.548	5.33
35	MP3C	My	0.099	5.33
36	MP3C	Mz	0.057	5.33
37	MP4A	Y	-58.192	1.04

Member Point Loads (BLC 2 : Antenna Di) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
38	MP4A	My	-0.058	1.04
39	MP4A	Mz	0	1.04
40	MP4A	Y	-58.192	2.96
41	MP4A	My	-0.058	2.96
42	MP4A	Mz	0	2.96
43	MP4B	Y	-58.192	1.04
44	MP4B	My	0.029	1.04
45	MP4B	Mz	-0.05	1.04
46	MP4B	Y	-58.192	2.96
47	MP4B	My	0.029	2.96
48	MP4B	Mz	-0.05	2.96
49	MP4C	Y	-58.192	1.04
50	MP4C	My	0.029	1.04
51	MP4C	Mz	0.05	1.04
52	MP4C	Y	-58.192	2.96
53	MP4C	My	0.029	2.96
54	MP4C	Mz	0.05	2.96
55	MP3A	Y	-33.419	2
56	MP3A	My	0.033	2
57	MP3A	Mz	0	2
58	MP3A	Y	-33.419	2
59	MP3A	My	0.033	2
60	MP3A	Mz	0	2
61	MP3B	Y	-33.419	2
62	MP3B	My	-0.017	2
63	MP3B	Mz	0.029	2
64	MP3B	Y	-33.419	2
65	MP3B	My	-0.017	2
66	MP3B	Mz	0.029	2
67	MP3C	Y	-33.419	1
68	MP3C	My	-0.017	1
69	MP3C	Mz	-0.029	1
70	MP3C	Y	-33.419	2
71	MP3C	My	-0.017	2
72	MP3C	Mz	-0.029	2
73	MP3A	Y	-37.003	5.5
74	MP3A	My	0.037	5.5
75	MP3A	Mz	0	5.5
76	MP3A	Y	-37.003	5.5
77	MP3A	My	0.037	5.5
78	MP3A	Mz	0	5.5
79	MP3B	Y	-37.003	5.5
80	MP3B	My	-0.019	5.5
81	MP3B	Mz	0.032	5.5
82	MP3B	Y	-37.003	5.5
83	MP3B	My	-0.019	5.5
84	MP3B	Mz	0.032	5.5
85	MP3C	Y	-37.003	5.5
86	MP3C	My	-0.019	5.5
87	MP3C	Mz	-0.032	5.5
88	MP3C	Y	-37.003	5.5
89	MP3C	My	-0.019	5.5
90	MP3C	Mz	-0.032	5.5
91	MP2A	Y	-71.134	2
92	MP2A	My	0.036	2

Member Point Loads (BLC 2 : Antenna Di) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
93	MP2A	Mz	0	2
94	MP2A	Y	-71.134	2
95	MP2A	My	0.036	2
96	MP2A	Mz	0	2
97	MP1C	Y	-101.159	0.53
98	MP1C	My	0.059	0.53
99	MP1C	Mz	0.102	0.53
100	MP1C	Y	-101.159	3.47
101	MP1C	My	0.059	3.47
102	MP1C	Mz	0.102	3.47
103	MP5C	Y	-101.159	0.53
104	MP5C	My	0.059	0.53
105	MP5C	Mz	0.102	0.53
106	MP5C	Y	-101.159	3.47
107	MP5C	My	0.059	3.47
108	MP5C	Mz	0.102	3.47
109	MP1A	Y	-65.912	0.53
110	MP1A	My	-0.077	0.53
111	MP1A	Mz	0	0.53
112	MP1A	Y	-65.912	3.47
113	MP1A	My	-0.077	3.47
114	MP1A	Mz	0	3.47
115	MP5A	Y	-65.912	0.53
116	MP5A	My	-0.077	0.53
117	MP5A	Mz	0	0.53
118	MP5A	Y	-65.912	3.47
119	MP5A	My	-0.077	3.47
120	MP5A	Mz	0	3.47
121	MP5B	Y	-65.912	0.53
122	MP5B	My	0.038	0.53
123	MP5B	Mz	-0.067	0.53
124	MP5B	Y	-65.912	3.47
125	MP5B	My	0.038	3.47
126	MP5B	Mz	-0.067	3.47
127	MP1B	Y	-101.159	0.53
128	MP1B	My	0.059	0.53
129	MP1B	Mz	-0.102	0.53
130	MP1B	Y	-101.159	3.47
131	MP1B	My	0.059	3.47
132	MP1B	Mz	-0.102	3.47
133	MP3C	Y	-29.864	3.5
134	MP3C	My	-0.024	3.5
135	MP3C	Mz	-0.021	3.5
136	MP3C	Y	-29.864	3.5
137	MP3C	My	-0.006	3.5
138	MP3C	Mz	-0.031	3.5

Member Point Loads (BLC 3 : Antenna Wo (0 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	0.67
2	MP3A	Z	-121.405	0.67
3	MP3A	Mx	0.071	0.67
4	MP3A	X	0	5.33
5	MP3A	Z	-121.405	5.33
6	MP3A	Mx	0.071	5.33

Member Point Loads (BLC 3 : Antenna Wo (0 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
7	MP3B	X	0	0.67
8	MP3B	Z	-69.422	0.67
9	MP3B	Mx	0.04	0.67
10	MP3B	X	0	5.33
11	MP3B	Z	-69.422	5.33
12	MP3B	Mx	0.04	5.33
13	MP3C	X	0	0.67
14	MP3C	Z	-69.422	0.67
15	MP3C	Mx	-0.08	0.67
16	MP3C	X	0	5.33
17	MP3C	Z	-69.422	5.33
18	MP3C	Mx	-0.08	5.33
19	MP3A	X	0	0.67
20	MP3A	Z	-121.405	0.67
21	MP3A	Mx	-0.071	0.67
22	MP3A	X	0	5.33
23	MP3A	Z	-121.405	5.33
24	MP3A	Mx	-0.071	5.33
25	MP3B	X	0	0.67
26	MP3B	Z	-69.422	0.67
27	MP3B	Mx	0.08	0.67
28	MP3B	X	0	5.33
29	MP3B	Z	-69.422	5.33
30	MP3B	Mx	0.08	5.33
31	MP3C	X	0	0.67
32	MP3C	Z	-69.422	0.67
33	MP3C	Mx	-0.04	0.67
34	MP3C	X	0	5.33
35	MP3C	Z	-69.422	5.33
36	MP3C	Mx	-0.04	5.33
37	MP4A	X	0	1.04
38	MP4A	Z	-87.644	1.04
39	MP4A	Mx	0	1.04
40	MP4A	X	0	2.96
41	MP4A	Z	-87.644	2.96
42	MP4A	Mx	0	2.96
43	MP4B	X	0	1.04
44	MP4B	Z	-44.549	1.04
45	MP4B	Mx	0.039	1.04
46	MP4B	X	0	2.96
47	MP4B	Z	-44.549	2.96
48	MP4B	Mx	0.039	2.96
49	MP4C	X	0	1.04
50	MP4C	Z	-44.549	1.04
51	MP4C	Mx	-0.039	1.04
52	MP4C	X	0	2.96
53	MP4C	Z	-44.549	2.96
54	MP4C	Mx	-0.039	2.96
55	MP3A	X	0	2
56	MP3A	Z	-34.655	2
57	MP3A	Mx	0	2
58	MP3A	X	0	2
59	MP3A	Z	-34.655	2
60	MP3A	Mx	0	2
61	MP3B	X	0	2

Member Point Loads (BLC 3 : Antenna Wo (0 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
62	MP3B	Z	-22.917	2
63	MP3B	Mx	-0.02	2
64	MP3B	X	0	2
65	MP3B	Z	-22.917	2
66	MP3B	Mx	-0.02	2
67	MP3C	X	0	1
68	MP3C	Z	-22.917	1
69	MP3C	Mx	0.02	1
70	MP3C	X	0	2
71	MP3C	Z	-22.917	2
72	MP3C	Mx	0.02	2
73	MP3A	X	0	5.5
74	MP3A	Z	-34.655	5.5
75	MP3A	Mx	0	5.5
76	MP3A	X	0	5.5
77	MP3A	Z	-34.655	5.5
78	MP3A	Mx	0	5.5
79	MP3B	X	0	5.5
80	MP3B	Z	-26.103	5.5
81	MP3B	Mx	-0.023	5.5
82	MP3B	X	0	5.5
83	MP3B	Z	-26.103	5.5
84	MP3B	Mx	-0.023	5.5
85	MP3C	X	0	5.5
86	MP3C	Z	-26.103	5.5
87	MP3C	Mx	0.023	5.5
88	MP3C	X	0	5.5
89	MP3C	Z	-26.103	5.5
90	MP3C	Mx	0.023	5.5
91	MP2A	X	0	2
92	MP2A	Z	-70.875	2
93	MP2A	Mx	0	2
94	MP2A	X	0	2
95	MP2A	Z	-70.875	2
96	MP2A	Mx	0	2
97	MP1C	X	0	0.53
98	MP1C	Z	-124.739	0.53
99	MP1C	Mx	-0.126	0.53
100	MP1C	X	0	3.47
101	MP1C	Z	-124.739	3.47
102	MP1C	Mx	-0.126	3.47
103	MP5C	X	0	0.53
104	MP5C	Z	-124.739	0.53
105	MP5C	Mx	-0.126	0.53
106	MP5C	X	0	3.47
107	MP5C	Z	-124.739	3.47
108	MP5C	Mx	-0.126	3.47
109	MP1A	X	0	0.53
110	MP1A	Z	-58.355	0.53
111	MP1A	Mx	0	0.53
112	MP1A	X	0	3.47
113	MP1A	Z	-58.355	3.47
114	MP1A	Mx	0	3.47
115	MP5A	X	0	0.53
116	MP5A	Z	-58.355	0.53

Member Point Loads (BLC 3 : Antenna Wo (0 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
117	MP5A	Mx	0	0.53
118	MP5A	X	0	3.47
119	MP5A	Z	-58.355	3.47
120	MP5A	Mx	0	3.47
121	MP5B	X	0	0.53
122	MP5B	Z	-105.12	0.53
123	MP5B	Mx	0.106	0.53
124	MP5B	X	0	3.47
125	MP5B	Z	-105.12	3.47
126	MP5B	Mx	0.106	3.47
127	MP1B	X	0	0.53
128	MP1B	Z	-124.739	0.53
129	MP1B	Mx	0.126	0.53
130	MP1B	X	0	3.47
131	MP1B	Z	-124.739	3.47
132	MP1B	Mx	0.126	3.47
133	MP3C	X	0	3.5
134	MP3C	Z	-42.946	3.5
135	MP3C	Mx	0.03	3.5
136	MP3C	X	0	3.5
137	MP3C	Z	-42.946	3.5
138	MP3C	Mx	0.044	3.5

Member Point Loads (BLC 4 : Antenna Wo (30 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	52.039	0.67
2	MP3A	Z	-90.133	0.67
3	MP3A	Mx	0.000539	0.67
4	MP3A	X	52.039	5.33
5	MP3A	Z	-90.133	5.33
6	MP3A	Mx	0.000539	5.33
7	MP3B	X	26.047	0.67
8	MP3B	Z	-45.115	0.67
9	MP3B	Mx	0.052	0.67
10	MP3B	X	26.047	5.33
11	MP3B	Z	-45.115	5.33
12	MP3B	Mx	0.052	5.33
13	MP3C	X	52.039	0.67
14	MP3C	Z	-90.133	0.67
15	MP3C	Mx	-0.105	0.67
16	MP3C	X	52.039	5.33
17	MP3C	Z	-90.133	5.33
18	MP3C	Mx	-0.105	5.33
19	MP3A	X	52.039	0.67
20	MP3A	Z	-90.133	0.67
21	MP3A	Mx	-0.105	0.67
22	MP3A	X	52.039	5.33
23	MP3A	Z	-90.133	5.33
24	MP3A	Mx	-0.105	5.33
25	MP3B	X	26.047	0.67
26	MP3B	Z	-45.115	0.67
27	MP3B	Mx	0.052	0.67
28	MP3B	X	26.047	5.33
29	MP3B	Z	-45.115	5.33
30	MP3B	Mx	0.052	5.33

Member Point Loads (BLC 4 : Antenna Wo (30 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
31	MP3C	X	52.039	0.67
32	MP3C	Z	-90.133	0.67
33	MP3C	Mx	0.00054	0.67
34	MP3C	X	52.039	5.33
35	MP3C	Z	-90.133	5.33
36	MP3C	Mx	0.00054	5.33
37	MP4A	X	36.639	1.04
38	MP4A	Z	-63.461	1.04
39	MP4A	Mx	-0.037	1.04
40	MP4A	X	36.639	2.96
41	MP4A	Z	-63.461	2.96
42	MP4A	Mx	-0.037	2.96
43	MP4B	X	15.092	1.04
44	MP4B	Z	-26.14	1.04
45	MP4B	Mx	0.03	1.04
46	MP4B	X	15.092	2.96
47	MP4B	Z	-26.14	2.96
48	MP4B	Mx	0.03	2.96
49	MP4C	X	36.639	1.04
50	MP4C	Z	-63.461	1.04
51	MP4C	Mx	-0.037	1.04
52	MP4C	X	36.639	2.96
53	MP4C	Z	-63.461	2.96
54	MP4C	Mx	-0.037	2.96
55	MP3A	X	15.371	2
56	MP3A	Z	-26.624	2
57	MP3A	Mx	0.015	2
58	MP3A	X	15.371	2
59	MP3A	Z	-26.624	2
60	MP3A	Mx	0.015	2
61	MP3B	X	9.502	2
62	MP3B	Z	-16.458	2
63	MP3B	Mx	-0.019	2
64	MP3B	X	9.502	2
65	MP3B	Z	-16.458	2
66	MP3B	Mx	-0.019	2
67	MP3C	X	15.371	1
68	MP3C	Z	-26.624	1
69	MP3C	Mx	0.015	1
70	MP3C	X	15.371	2
71	MP3C	Z	-26.624	2
72	MP3C	Mx	0.015	2
73	MP3A	X	15.902	5.5
74	MP3A	Z	-27.543	5.5
75	MP3A	Mx	0.016	5.5
76	MP3A	X	15.902	5.5
77	MP3A	Z	-27.543	5.5
78	MP3A	Mx	0.016	5.5
79	MP3B	X	11.626	5.5
80	MP3B	Z	-20.137	5.5
81	MP3B	Mx	-0.023	5.5
82	MP3B	X	11.626	5.5
83	MP3B	Z	-20.137	5.5
84	MP3B	Mx	-0.023	5.5
85	MP3C	X	15.902	5.5

Member Point Loads (BLC 4 : Antenna Wo (30 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
86	MP3C	Z	-27.543	5.5
87	MP3C	Mx	0.016	5.5
88	MP3C	X	15.902	5.5
89	MP3C	Z	-27.543	5.5
90	MP3C	Mx	0.016	5.5
91	MP2A	X	33.314	2
92	MP2A	Z	-57.701	2
93	MP2A	Mx	0.017	2
94	MP2A	X	33.314	2
95	MP2A	Z	-57.701	2
96	MP2A	Mx	0.017	2
97	MP1C	X	66.624	0.53
98	MP1C	Z	-115.396	0.53
99	MP1C	Mx	-0.078	0.53
100	MP1C	X	66.624	3.47
101	MP1C	Z	-115.396	3.47
102	MP1C	Mx	-0.078	3.47
103	MP5C	X	66.624	0.53
104	MP5C	Z	-115.396	0.53
105	MP5C	Mx	-0.078	0.53
106	MP5C	X	66.624	3.47
107	MP5C	Z	-115.396	3.47
108	MP5C	Mx	-0.078	3.47
109	MP1A	X	36.972	0.53
110	MP1A	Z	-64.037	0.53
111	MP1A	Mx	-0.043	0.53
112	MP1A	X	36.972	3.47
113	MP1A	Z	-64.037	3.47
114	MP1A	Mx	-0.043	3.47
115	MP5A	X	36.972	0.53
116	MP5A	Z	-64.037	0.53
117	MP5A	Mx	-0.043	0.53
118	MP5A	X	36.972	3.47
119	MP5A	Z	-64.037	3.47
120	MP5A	Mx	-0.043	3.47
121	MP5B	X	60.354	0.53
122	MP5B	Z	-104.537	0.53
123	MP5B	Mx	0.141	0.53
124	MP5B	X	60.354	3.47
125	MP5B	Z	-104.537	3.47
126	MP5B	Mx	0.141	3.47
127	MP1B	X	60.242	0.53
128	MP1B	Z	-104.342	0.53
129	MP1B	Mx	0.141	0.53
130	MP1B	X	60.242	3.47
131	MP1B	Z	-104.342	3.47
132	MP1B	Mx	0.141	3.47
133	MP3C	X	21.441	3.5
134	MP3C	Z	-37.138	3.5
135	MP3C	Mx	0.009	3.5
136	MP3C	X	21.441	3.5
137	MP3C	Z	-37.138	3.5
138	MP3C	Mx	0.034	3.5

Member Point Loads (BLC 5 : Antenna Wo (60 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	60.121	0.67
2	MP3A	Z	-34.711	0.67
3	MP3A	Mx	-0.04	0.67
4	MP3A	X	60.121	5.33
5	MP3A	Z	-34.711	5.33
6	MP3A	Mx	-0.04	5.33
7	MP3B	X	60.121	0.67
8	MP3B	Z	-34.711	0.67
9	MP3B	Mx	0.08	0.67
10	MP3B	X	60.121	5.33
11	MP3B	Z	-34.711	5.33
12	MP3B	Mx	0.08	5.33
13	MP3C	X	105.139	0.67
14	MP3C	Z	-60.702	0.67
15	MP3C	Mx	-0.071	0.67
16	MP3C	X	105.139	5.33
17	MP3C	Z	-60.702	5.33
18	MP3C	Mx	-0.071	5.33
19	MP3A	X	60.121	0.67
20	MP3A	Z	-34.711	0.67
21	MP3A	Mx	-0.08	0.67
22	MP3A	X	60.121	5.33
23	MP3A	Z	-34.711	5.33
24	MP3A	Mx	-0.08	5.33
25	MP3B	X	60.121	0.67
26	MP3B	Z	-34.711	0.67
27	MP3B	Mx	0.04	0.67
28	MP3B	X	60.121	5.33
29	MP3B	Z	-34.711	5.33
30	MP3B	Mx	0.04	5.33
31	MP3C	X	105.139	0.67
32	MP3C	Z	-60.702	0.67
33	MP3C	Mx	0.071	0.67
34	MP3C	X	105.139	5.33
35	MP3C	Z	-60.702	5.33
36	MP3C	Mx	0.071	5.33
37	MP4A	X	38.58	1.04
38	MP4A	Z	-22.274	1.04
39	MP4A	Mx	-0.039	1.04
40	MP4A	X	38.58	2.96
41	MP4A	Z	-22.274	2.96
42	MP4A	Mx	-0.039	2.96
43	MP4B	X	38.58	1.04
44	MP4B	Z	-22.274	1.04
45	MP4B	Mx	0.039	1.04
46	MP4B	X	38.58	2.96
47	MP4B	Z	-22.274	2.96
48	MP4B	Mx	0.039	2.96
49	MP4C	X	75.902	1.04
50	MP4C	Z	-43.822	1.04
51	MP4C	Mx	0	1.04
52	MP4C	X	75.902	2.96
53	MP4C	Z	-43.822	2.96
54	MP4C	Mx	0	2.96
55	MP3A	X	19.847	2

Member Point Loads (BLC 5 : Antenna Wo (60 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP3A	Z	-11.459	2
57	MP3A	Mx	0.02	2
58	MP3A	X	19.847	2
59	MP3A	Z	-11.459	2
60	MP3A	Mx	0.02	2
61	MP3B	X	19.847	2
62	MP3B	Z	-11.459	2
63	MP3B	Mx	-0.02	2
64	MP3B	X	19.847	2
65	MP3B	Z	-11.459	2
66	MP3B	Mx	-0.02	2
67	MP3C	X	30.012	1
68	MP3C	Z	-17.328	1
69	MP3C	Mx	0	1
70	MP3C	X	30.012	2
71	MP3C	Z	-17.328	2
72	MP3C	Mx	0	2
73	MP3A	X	22.606	5.5
74	MP3A	Z	-13.052	5.5
75	MP3A	Mx	0.023	5.5
76	MP3A	X	22.606	5.5
77	MP3A	Z	-13.052	5.5
78	MP3A	Mx	0.023	5.5
79	MP3B	X	22.606	5.5
80	MP3B	Z	-13.052	5.5
81	MP3B	Mx	-0.023	5.5
82	MP3B	X	22.606	5.5
83	MP3B	Z	-13.052	5.5
84	MP3B	Mx	-0.023	5.5
85	MP3C	X	30.012	5.5
86	MP3C	Z	-17.328	5.5
87	MP3C	Mx	0	5.5
88	MP3C	X	30.012	5.5
89	MP3C	Z	-17.328	5.5
90	MP3C	Mx	0	5.5
91	MP2A	X	50.343	2
92	MP2A	Z	-29.066	2
93	MP2A	Mx	0.025	2
94	MP2A	X	50.343	2
95	MP2A	Z	-29.066	2
96	MP2A	Mx	0.025	2
97	MP1C	X	119.081	0.53
98	MP1C	Z	-68.751	0.53
99	MP1C	Mx	0	0.53
100	MP1C	X	119.081	3.47
101	MP1C	Z	-68.751	3.47
102	MP1C	Mx	0	3.47
103	MP5C	X	119.081	0.53
104	MP5C	Z	-68.751	0.53
105	MP5C	Mx	0	0.53
106	MP5C	X	119.081	3.47
107	MP5C	Z	-68.751	3.47
108	MP5C	Mx	0	3.47
109	MP1A	X	91.037	0.53
110	MP1A	Z	-52.56	0.53

Member Point Loads (BLC 5 : Antenna Wo (60 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
111	MP1A	Mx	-0.106	0.53
112	MP1A	X	91.037	3.47
113	MP1A	Z	-52.56	3.47
114	MP1A	Mx	-0.106	3.47
115	MP5A	X	91.037	0.53
116	MP5A	Z	-52.56	0.53
117	MP5A	Mx	-0.106	0.53
118	MP5A	X	91.037	3.47
119	MP5A	Z	-52.56	3.47
120	MP5A	Mx	-0.106	3.47
121	MP5B	X	91.037	0.53
122	MP5B	Z	-52.56	0.53
123	MP5B	Mx	0.106	0.53
124	MP5B	X	91.037	3.47
125	MP5B	Z	-52.56	3.47
126	MP5B	Mx	0.106	3.47
127	MP1B	X	108.027	0.53
128	MP1B	Z	-62.369	0.53
129	MP1B	Mx	0.126	0.53
130	MP1B	X	108.027	3.47
131	MP1B	Z	-62.369	3.47
132	MP1B	Mx	0.126	3.47
133	MP3C	X	37.11	3.5
134	MP3C	Z	-21.426	3.5
135	MP3C	Mx	-0.014	3.5
136	MP3C	X	37.11	3.5
137	MP3C	Z	-21.426	3.5
138	MP3C	Mx	0.014	3.5

Member Point Loads (BLC 6 : Antenna Wo (90 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	52.094	0.67
2	MP3A	Z	0	0.67
3	MP3A	Mx	-0.052	0.67
4	MP3A	X	52.094	5.33
5	MP3A	Z	0	5.33
6	MP3A	Mx	-0.052	5.33
7	MP3B	X	104.077	0.67
8	MP3B	Z	0	0.67
9	MP3B	Mx	0.105	0.67
10	MP3B	X	104.077	5.33
11	MP3B	Z	0	5.33
12	MP3B	Mx	0.105	5.33
13	MP3C	X	104.077	0.67
14	MP3C	Z	0	0.67
15	MP3C	Mx	-0.000539	0.67
16	MP3C	X	104.077	5.33
17	MP3C	Z	0	5.33
18	MP3C	Mx	-0.000539	5.33
19	MP3A	X	52.094	0.67
20	MP3A	Z	0	0.67
21	MP3A	Mx	-0.052	0.67
22	MP3A	X	52.094	5.33
23	MP3A	Z	0	5.33
24	MP3A	Mx	-0.052	5.33

Member Point Loads (BLC 6 : Antenna Wo (90 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
25	MP3B	X	104.077	0.67
26	MP3B	Z	0	0.67
27	MP3B	Mx	-0.000539	0.67
28	MP3B	X	104.077	5.33
29	MP3B	Z	0	5.33
30	MP3B	Mx	-0.000539	5.33
31	MP3C	X	104.077	0.67
32	MP3C	Z	0	0.67
33	MP3C	Mx	0.105	0.67
34	MP3C	X	104.077	5.33
35	MP3C	Z	0	5.33
36	MP3C	Mx	0.105	5.33
37	MP4A	X	30.183	1.04
38	MP4A	Z	0	1.04
39	MP4A	Mx	-0.03	1.04
40	MP4A	X	30.183	2.96
41	MP4A	Z	0	2.96
42	MP4A	Mx	-0.03	2.96
43	MP4B	X	73.279	1.04
44	MP4B	Z	0	1.04
45	MP4B	Mx	0.037	1.04
46	MP4B	X	73.279	2.96
47	MP4B	Z	0	2.96
48	MP4B	Mx	0.037	2.96
49	MP4C	X	73.279	1.04
50	MP4C	Z	0	1.04
51	MP4C	Mx	0.037	1.04
52	MP4C	X	73.279	2.96
53	MP4C	Z	0	2.96
54	MP4C	Mx	0.037	2.96
55	MP3A	X	19.004	2
56	MP3A	Z	0	2
57	MP3A	Mx	0.019	2
58	MP3A	X	19.004	2
59	MP3A	Z	0	2
60	MP3A	Mx	0.019	2
61	MP3B	X	30.742	2
62	MP3B	Z	0	2
63	MP3B	Mx	-0.015	2
64	MP3B	X	30.742	2
65	MP3B	Z	0	2
66	MP3B	Mx	-0.015	2
67	MP3C	X	30.742	1
68	MP3C	Z	0	1
69	MP3C	Mx	-0.015	1
70	MP3C	X	30.742	2
71	MP3C	Z	0	2
72	MP3C	Mx	-0.015	2
73	MP3A	X	23.252	5.5
74	MP3A	Z	0	5.5
75	MP3A	Mx	0.023	5.5
76	MP3A	X	23.252	5.5
77	MP3A	Z	0	5.5
78	MP3A	Mx	0.023	5.5
79	MP3B	X	31.804	5.5

Member Point Loads (BLC 6 : Antenna Wo (90 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
80	MP3B	Z	0	5.5
81	MP3B	Mx	-0.016	5.5
82	MP3B	X	31.804	5.5
83	MP3B	Z	0	5.5
84	MP3B	Mx	-0.016	5.5
85	MP3C	X	31.804	5.5
86	MP3C	Z	0	5.5
87	MP3C	Mx	-0.016	5.5
88	MP3C	X	31.804	5.5
89	MP3C	Z	0	5.5
90	MP3C	Mx	-0.016	5.5
91	MP2A	X	53.883	2
92	MP2A	Z	0	2
93	MP2A	Mx	0.027	2
94	MP2A	X	53.883	2
95	MP2A	Z	0	2
96	MP2A	Mx	0.027	2
97	MP1C	X	133.248	0.53
98	MP1C	Z	0	0.53
99	MP1C	Mx	0.078	0.53
100	MP1C	X	133.248	3.47
101	MP1C	Z	0	3.47
102	MP1C	Mx	0.078	3.47
103	MP5C	X	133.248	0.53
104	MP5C	Z	0	0.53
105	MP5C	Mx	0.078	0.53
106	MP5C	X	133.248	3.47
107	MP5C	Z	0	3.47
108	MP5C	Mx	0.078	3.47
109	MP1A	X	120.708	0.53
110	MP1A	Z	0	0.53
111	MP1A	Mx	-0.141	0.53
112	MP1A	X	120.708	3.47
113	MP1A	Z	0	3.47
114	MP1A	Mx	-0.141	3.47
115	MP5A	X	120.708	0.53
116	MP5A	Z	0	0.53
117	MP5A	Mx	-0.141	0.53
118	MP5A	X	120.708	3.47
119	MP5A	Z	0	3.47
120	MP5A	Mx	-0.141	3.47
121	MP5B	X	73.943	0.53
122	MP5B	Z	0	0.53
123	MP5B	Mx	0.043	0.53
124	MP5B	X	73.943	3.47
125	MP5B	Z	0	3.47
126	MP5B	Mx	0.043	3.47
127	MP1B	X	133.248	0.53
128	MP1B	Z	0	0.53
129	MP1B	Mx	0.078	0.53
130	MP1B	X	133.248	3.47
131	MP1B	Z	0	3.47
132	MP1B	Mx	0.078	3.47
133	MP3C	X	42.883	3.5
134	MP3C	Z	0	3.5

Member Point Loads (BLC 6 : Antenna Wo (90 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
135	MP3C	Mx	-0.034	3.5
136	MP3C	X	42.883	3.5
137	MP3C	Z	0	3.5
138	MP3C	Mx	-0.009	3.5

Member Point Loads (BLC 7 : Antenna Wo (120 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	60.121	0.67
2	MP3A	Z	34.711	0.67
3	MP3A	Mx	-0.08	0.67
4	MP3A	X	60.121	5.33
5	MP3A	Z	34.711	5.33
6	MP3A	Mx	-0.08	5.33
7	MP3B	X	105.139	0.67
8	MP3B	Z	60.702	0.67
9	MP3B	Mx	0.071	0.67
10	MP3B	X	105.139	5.33
11	MP3B	Z	60.702	5.33
12	MP3B	Mx	0.071	5.33
13	MP3C	X	60.121	0.67
14	MP3C	Z	34.711	0.67
15	MP3C	Mx	0.04	0.67
16	MP3C	X	60.121	5.33
17	MP3C	Z	34.711	5.33
18	MP3C	Mx	0.04	5.33
19	MP3A	X	60.121	0.67
20	MP3A	Z	34.711	0.67
21	MP3A	Mx	-0.04	0.67
22	MP3A	X	60.121	5.33
23	MP3A	Z	34.711	5.33
24	MP3A	Mx	-0.04	5.33
25	MP3B	X	105.139	0.67
26	MP3B	Z	60.702	0.67
27	MP3B	Mx	-0.071	0.67
28	MP3B	X	105.139	5.33
29	MP3B	Z	60.702	5.33
30	MP3B	Mx	-0.071	5.33
31	MP3C	X	60.121	0.67
32	MP3C	Z	34.711	0.67
33	MP3C	Mx	0.08	0.67
34	MP3C	X	60.121	5.33
35	MP3C	Z	34.711	5.33
36	MP3C	Mx	0.08	5.33
37	MP4A	X	38.58	1.04
38	MP4A	Z	22.274	1.04
39	MP4A	Mx	-0.039	1.04
40	MP4A	X	38.58	2.96
41	MP4A	Z	22.274	2.96
42	MP4A	Mx	-0.039	2.96
43	MP4B	X	75.902	1.04
44	MP4B	Z	43.822	1.04
45	MP4B	Mx	0	1.04
46	MP4B	X	75.902	2.96
47	MP4B	Z	43.822	2.96
48	MP4B	Mx	0	2.96

Member Point Loads (BLC 7 : Antenna Wo (120 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
49	MP4C	X	38.58	1.04
50	MP4C	Z	22.274	1.04
51	MP4C	Mx	0.039	1.04
52	MP4C	X	38.58	2.96
53	MP4C	Z	22.274	2.96
54	MP4C	Mx	0.039	2.96
55	MP3A	X	19.847	2
56	MP3A	Z	11.459	2
57	MP3A	Mx	0.02	2
58	MP3A	X	19.847	2
59	MP3A	Z	11.459	2
60	MP3A	Mx	0.02	2
61	MP3B	X	30.012	2
62	MP3B	Z	17.328	2
63	MP3B	Mx	0	2
64	MP3B	X	30.012	2
65	MP3B	Z	17.328	2
66	MP3B	Mx	0	2
67	MP3C	X	19.847	1
68	MP3C	Z	11.459	1
69	MP3C	Mx	-0.02	1
70	MP3C	X	19.847	2
71	MP3C	Z	11.459	2
72	MP3C	Mx	-0.02	2
73	MP3A	X	22.606	5.5
74	MP3A	Z	13.052	5.5
75	MP3A	Mx	0.023	5.5
76	MP3A	X	22.606	5.5
77	MP3A	Z	13.052	5.5
78	MP3A	Mx	0.023	5.5
79	MP3B	X	30.012	5.5
80	MP3B	Z	17.328	5.5
81	MP3B	Mx	0	5.5
82	MP3B	X	30.012	5.5
83	MP3B	Z	17.328	5.5
84	MP3B	Mx	0	5.5
85	MP3C	X	22.606	5.5
86	MP3C	Z	13.052	5.5
87	MP3C	Mx	-0.023	5.5
88	MP3C	X	22.606	5.5
89	MP3C	Z	13.052	5.5
90	MP3C	Mx	-0.023	5.5
91	MP2A	X	50.343	2
92	MP2A	Z	29.066	2
93	MP2A	Mx	0.025	2
94	MP2A	X	50.343	2
95	MP2A	Z	29.066	2
96	MP2A	Mx	0.025	2
97	MP1C	X	108.027	0.53
98	MP1C	Z	62.369	0.53
99	MP1C	Mx	0.126	0.53
100	MP1C	X	108.027	3.47
101	MP1C	Z	62.369	3.47
102	MP1C	Mx	0.126	3.47
103	MP5C	X	108.027	0.53

Member Point Loads (BLC 7 : Antenna Wo (120 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
104	MP5C	Z	62.369	0.53
105	MP5C	Mx	0.126	0.53
106	MP5C	X	108.027	3.47
107	MP5C	Z	62.369	3.47
108	MP5C	Mx	0.126	3.47
109	MP1A	X	91.037	0.53
110	MP1A	Z	52.56	0.53
111	MP1A	Mx	-0.106	0.53
112	MP1A	X	91.037	3.47
113	MP1A	Z	52.56	3.47
114	MP1A	Mx	-0.106	3.47
115	MP5A	X	91.037	0.53
116	MP5A	Z	52.56	0.53
117	MP5A	Mx	-0.106	0.53
118	MP5A	X	91.037	3.47
119	MP5A	Z	52.56	3.47
120	MP5A	Mx	-0.106	3.47
121	MP5B	X	50.537	0.53
122	MP5B	Z	29.177	0.53
123	MP5B	Mx	1e-6	0.53
124	MP5B	X	50.537	3.47
125	MP5B	Z	29.177	3.47
126	MP5B	Mx	1e-6	3.47
127	MP1B	X	119.081	0.53
128	MP1B	Z	68.751	0.53
129	MP1B	Mx	0	0.53
130	MP1B	X	119.081	3.47
131	MP1B	Z	68.751	3.47
132	MP1B	Mx	0	3.47
133	MP3C	X	37.192	3.5
134	MP3C	Z	21.473	3.5
135	MP3C	Mx	-0.044	3.5
136	MP3C	X	37.192	3.5
137	MP3C	Z	21.473	3.5
138	MP3C	Mx	-0.03	3.5

Member Point Loads (BLC 8 : Antenna Wo (150 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	52.039	0.67
2	MP3A	Z	90.133	0.67
3	MP3A	Mx	-0.105	0.67
4	MP3A	X	52.039	5.33
5	MP3A	Z	90.133	5.33
6	MP3A	Mx	-0.105	5.33
7	MP3B	X	52.039	0.67
8	MP3B	Z	90.133	0.67
9	MP3B	Mx	0.00054	0.67
10	MP3B	X	52.039	5.33
11	MP3B	Z	90.133	5.33
12	MP3B	Mx	0.00054	5.33
13	MP3C	X	26.047	0.67
14	MP3C	Z	45.115	0.67
15	MP3C	Mx	0.052	0.67
16	MP3C	X	26.047	5.33
17	MP3C	Z	45.115	5.33

Member Point Loads (BLC 8 : Antenna Wo (150 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
18	MP3C	Mx	0.052	5.33
19	MP3A	X	52.039	0.67
20	MP3A	Z	90.133	0.67
21	MP3A	Mx	0.000539	0.67
22	MP3A	X	52.039	5.33
23	MP3A	Z	90.133	5.33
24	MP3A	Mx	0.000539	5.33
25	MP3B	X	52.039	0.67
26	MP3B	Z	90.133	0.67
27	MP3B	Mx	-0.105	0.67
28	MP3B	X	52.039	5.33
29	MP3B	Z	90.133	5.33
30	MP3B	Mx	-0.105	5.33
31	MP3C	X	26.047	0.67
32	MP3C	Z	45.115	0.67
33	MP3C	Mx	0.052	0.67
34	MP3C	X	26.047	5.33
35	MP3C	Z	45.115	5.33
36	MP3C	Mx	0.052	5.33
37	MP4A	X	36.639	1.04
38	MP4A	Z	63.461	1.04
39	MP4A	Mx	-0.037	1.04
40	MP4A	X	36.639	2.96
41	MP4A	Z	63.461	2.96
42	MP4A	Mx	-0.037	2.96
43	MP4B	X	36.639	1.04
44	MP4B	Z	63.461	1.04
45	MP4B	Mx	-0.037	1.04
46	MP4B	X	36.639	2.96
47	MP4B	Z	63.461	2.96
48	MP4B	Mx	-0.037	2.96
49	MP4C	X	15.092	1.04
50	MP4C	Z	26.14	1.04
51	MP4C	Mx	0.03	1.04
52	MP4C	X	15.092	2.96
53	MP4C	Z	26.14	2.96
54	MP4C	Mx	0.03	2.96
55	MP3A	X	15.371	2
56	MP3A	Z	26.624	2
57	MP3A	Mx	0.015	2
58	MP3A	X	15.371	2
59	MP3A	Z	26.624	2
60	MP3A	Mx	0.015	2
61	MP3B	X	15.371	2
62	MP3B	Z	26.624	2
63	MP3B	Mx	0.015	2
64	MP3B	X	15.371	2
65	MP3B	Z	26.624	2
66	MP3B	Mx	0.015	2
67	MP3C	X	9.502	1
68	MP3C	Z	16.458	1
69	MP3C	Mx	-0.019	1
70	MP3C	X	9.502	2
71	MP3C	Z	16.458	2
72	MP3C	Mx	-0.019	2

Member Point Loads (BLC 8 : Antenna Wo (150 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
73	MP3A	X	15.902	5.5
74	MP3A	Z	27.543	5.5
75	MP3A	Mx	0.016	5.5
76	MP3A	X	15.902	5.5
77	MP3A	Z	27.543	5.5
78	MP3A	Mx	0.016	5.5
79	MP3B	X	15.902	5.5
80	MP3B	Z	27.543	5.5
81	MP3B	Mx	0.016	5.5
82	MP3B	X	15.902	5.5
83	MP3B	Z	27.543	5.5
84	MP3B	Mx	0.016	5.5
85	MP3C	X	11.626	5.5
86	MP3C	Z	20.137	5.5
87	MP3C	Mx	-0.023	5.5
88	MP3C	X	11.626	5.5
89	MP3C	Z	20.137	5.5
90	MP3C	Mx	-0.023	5.5
91	MP2A	X	33.314	2
92	MP2A	Z	57.701	2
93	MP2A	Mx	0.017	2
94	MP2A	X	33.314	2
95	MP2A	Z	57.701	2
96	MP2A	Mx	0.017	2
97	MP1C	X	60.242	0.53
98	MP1C	Z	104.342	0.53
99	MP1C	Mx	0.141	0.53
100	MP1C	X	60.242	3.47
101	MP1C	Z	104.342	3.47
102	MP1C	Mx	0.141	3.47
103	MP5C	X	60.242	0.53
104	MP5C	Z	104.342	0.53
105	MP5C	Mx	0.141	0.53
106	MP5C	X	60.242	3.47
107	MP5C	Z	104.342	3.47
108	MP5C	Mx	0.141	3.47
109	MP1A	X	36.972	0.53
110	MP1A	Z	64.037	0.53
111	MP1A	Mx	-0.043	0.53
112	MP1A	X	36.972	3.47
113	MP1A	Z	64.037	3.47
114	MP1A	Mx	-0.043	3.47
115	MP5A	X	36.972	0.53
116	MP5A	Z	64.037	0.53
117	MP5A	Mx	-0.043	0.53
118	MP5A	X	36.972	3.47
119	MP5A	Z	64.037	3.47
120	MP5A	Mx	-0.043	3.47
121	MP5B	X	36.972	0.53
122	MP5B	Z	64.037	0.53
123	MP5B	Mx	-0.043	0.53
124	MP5B	X	36.972	3.47
125	MP5B	Z	64.037	3.47
126	MP5B	Mx	-0.043	3.47
127	MP1B	X	66.624	0.53

Member Point Loads (BLC 8 : Antenna Wo (150 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
128	MP1B	Z	115.396	0.53
129	MP1B	Mx	-0.078	0.53
130	MP1B	X	66.624	3.47
131	MP1B	Z	115.396	3.47
132	MP1B	Mx	-0.078	3.47
133	MP3C	X	21.489	3.5
134	MP3C	Z	37.22	3.5
135	MP3C	Mx	-0.043	3.5
136	MP3C	X	21.489	3.5
137	MP3C	Z	37.22	3.5
138	MP3C	Mx	-0.043	3.5

Member Point Loads (BLC 9 : Antenna Wo (180 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	0.67
2	MP3A	Z	121.405	0.67
3	MP3A	Mx	-0.071	0.67
4	MP3A	X	0	5.33
5	MP3A	Z	121.405	5.33
6	MP3A	Mx	-0.071	5.33
7	MP3B	X	0	0.67
8	MP3B	Z	69.422	0.67
9	MP3B	Mx	-0.04	0.67
10	MP3B	X	0	5.33
11	MP3B	Z	69.422	5.33
12	MP3B	Mx	-0.04	5.33
13	MP3C	X	0	0.67
14	MP3C	Z	69.422	0.67
15	MP3C	Mx	0.08	0.67
16	MP3C	X	0	5.33
17	MP3C	Z	69.422	5.33
18	MP3C	Mx	0.08	5.33
19	MP3A	X	0	0.67
20	MP3A	Z	121.405	0.67
21	MP3A	Mx	0.071	0.67
22	MP3A	X	0	5.33
23	MP3A	Z	121.405	5.33
24	MP3A	Mx	0.071	5.33
25	MP3B	X	0	0.67
26	MP3B	Z	69.422	0.67
27	MP3B	Mx	-0.08	0.67
28	MP3B	X	0	5.33
29	MP3B	Z	69.422	5.33
30	MP3B	Mx	-0.08	5.33
31	MP3C	X	0	0.67
32	MP3C	Z	69.422	0.67
33	MP3C	Mx	0.04	0.67
34	MP3C	X	0	5.33
35	MP3C	Z	69.422	5.33
36	MP3C	Mx	0.04	5.33
37	MP4A	X	0	1.04
38	MP4A	Z	87.644	1.04
39	MP4A	Mx	0	1.04
40	MP4A	X	0	2.96
41	MP4A	Z	87.644	2.96

Member Point Loads (BLC 9 : Antenna Wo (180 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
42	MP4A	Mx	0	2.96
43	MP4B	X	0	1.04
44	MP4B	Z	44.549	1.04
45	MP4B	Mx	-0.039	1.04
46	MP4B	X	0	2.96
47	MP4B	Z	44.549	2.96
48	MP4B	Mx	-0.039	2.96
49	MP4C	X	0	1.04
50	MP4C	Z	44.549	1.04
51	MP4C	Mx	0.039	1.04
52	MP4C	X	0	2.96
53	MP4C	Z	44.549	2.96
54	MP4C	Mx	0.039	2.96
55	MP3A	X	0	2
56	MP3A	Z	34.655	2
57	MP3A	Mx	0	2
58	MP3A	X	0	2
59	MP3A	Z	34.655	2
60	MP3A	Mx	0	2
61	MP3B	X	0	2
62	MP3B	Z	22.917	2
63	MP3B	Mx	0.02	2
64	MP3B	X	0	2
65	MP3B	Z	22.917	2
66	MP3B	Mx	0.02	2
67	MP3C	X	0	1
68	MP3C	Z	22.917	1
69	MP3C	Mx	-0.02	1
70	MP3C	X	0	2
71	MP3C	Z	22.917	2
72	MP3C	Mx	-0.02	2
73	MP3A	X	0	5.5
74	MP3A	Z	34.655	5.5
75	MP3A	Mx	0	5.5
76	MP3A	X	0	5.5
77	MP3A	Z	34.655	5.5
78	MP3A	Mx	0	5.5
79	MP3B	X	0	5.5
80	MP3B	Z	26.103	5.5
81	MP3B	Mx	0.023	5.5
82	MP3B	X	0	5.5
83	MP3B	Z	26.103	5.5
84	MP3B	Mx	0.023	5.5
85	MP3C	X	0	5.5
86	MP3C	Z	26.103	5.5
87	MP3C	Mx	-0.023	5.5
88	MP3C	X	0	5.5
89	MP3C	Z	26.103	5.5
90	MP3C	Mx	-0.023	5.5
91	MP2A	X	0	2
92	MP2A	Z	70.875	2
93	MP2A	Mx	0	2
94	MP2A	X	0	2
95	MP2A	Z	70.875	2
96	MP2A	Mx	0	2

Member Point Loads (BLC 9 : Antenna Wo (180 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
97	MP1C	X	0	0.53
98	MP1C	Z	124.739	0.53
99	MP1C	Mx	0.126	0.53
100	MP1C	X	0	3.47
101	MP1C	Z	124.739	3.47
102	MP1C	Mx	0.126	3.47
103	MP5C	X	0	0.53
104	MP5C	Z	124.739	0.53
105	MP5C	Mx	0.126	0.53
106	MP5C	X	0	3.47
107	MP5C	Z	124.739	3.47
108	MP5C	Mx	0.126	3.47
109	MP1A	X	0	0.53
110	MP1A	Z	58.355	0.53
111	MP1A	Mx	0	0.53
112	MP1A	X	0	3.47
113	MP1A	Z	58.355	3.47
114	MP1A	Mx	0	3.47
115	MP5A	X	0	0.53
116	MP5A	Z	58.355	0.53
117	MP5A	Mx	0	0.53
118	MP5A	X	0	3.47
119	MP5A	Z	58.355	3.47
120	MP5A	Mx	0	3.47
121	MP5B	X	0	0.53
122	MP5B	Z	105.12	0.53
123	MP5B	Mx	-0.106	0.53
124	MP5B	X	0	3.47
125	MP5B	Z	105.12	3.47
126	MP5B	Mx	-0.106	3.47
127	MP1B	X	0	0.53
128	MP1B	Z	124.739	0.53
129	MP1B	Mx	-0.126	0.53
130	MP1B	X	0	3.47
131	MP1B	Z	124.739	3.47
132	MP1B	Mx	-0.126	3.47
133	MP3C	X	0	3.5
134	MP3C	Z	42.946	3.5
135	MP3C	Mx	-0.03	3.5
136	MP3C	X	0	3.5
137	MP3C	Z	42.946	3.5
138	MP3C	Mx	-0.044	3.5

Member Point Loads (BLC 10 : Antenna Wo (210 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-52.039	0.67
2	MP3A	Z	90.133	0.67
3	MP3A	Mx	-0.000539	0.67
4	MP3A	X	-52.039	5.33
5	MP3A	Z	90.133	5.33
6	MP3A	Mx	-0.000539	5.33
7	MP3B	X	-26.047	0.67
8	MP3B	Z	45.115	0.67
9	MP3B	Mx	-0.052	0.67
10	MP3B	X	-26.047	5.33

Member Point Loads (BLC 10 : Antenna Wo (210 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
11	MP3B	Z	45.115	5.33
12	MP3B	Mx	-0.052	5.33
13	MP3C	X	-52.039	0.67
14	MP3C	Z	90.133	0.67
15	MP3C	Mx	0.105	0.67
16	MP3C	X	-52.039	5.33
17	MP3C	Z	90.133	5.33
18	MP3C	Mx	0.105	5.33
19	MP3A	X	-52.039	0.67
20	MP3A	Z	90.133	0.67
21	MP3A	Mx	0.105	0.67
22	MP3A	X	-52.039	5.33
23	MP3A	Z	90.133	5.33
24	MP3A	Mx	0.105	5.33
25	MP3B	X	-26.047	0.67
26	MP3B	Z	45.115	0.67
27	MP3B	Mx	-0.052	0.67
28	MP3B	X	-26.047	5.33
29	MP3B	Z	45.115	5.33
30	MP3B	Mx	-0.052	5.33
31	MP3C	X	-52.039	0.67
32	MP3C	Z	90.133	0.67
33	MP3C	Mx	-0.00054	0.67
34	MP3C	X	-52.039	5.33
35	MP3C	Z	90.133	5.33
36	MP3C	Mx	-0.00054	5.33
37	MP4A	X	-36.639	1.04
38	MP4A	Z	63.461	1.04
39	MP4A	Mx	0.037	1.04
40	MP4A	X	-36.639	2.96
41	MP4A	Z	63.461	2.96
42	MP4A	Mx	0.037	2.96
43	MP4B	X	-15.092	1.04
44	MP4B	Z	26.14	1.04
45	MP4B	Mx	-0.03	1.04
46	MP4B	X	-15.092	2.96
47	MP4B	Z	26.14	2.96
48	MP4B	Mx	-0.03	2.96
49	MP4C	X	-36.639	1.04
50	MP4C	Z	63.461	1.04
51	MP4C	Mx	0.037	1.04
52	MP4C	X	-36.639	2.96
53	MP4C	Z	63.461	2.96
54	MP4C	Mx	0.037	2.96
55	MP3A	X	-15.371	2
56	MP3A	Z	26.624	2
57	MP3A	Mx	-0.015	2
58	MP3A	X	-15.371	2
59	MP3A	Z	26.624	2
60	MP3A	Mx	-0.015	2
61	MP3B	X	-9.502	2
62	MP3B	Z	16.458	2
63	MP3B	Mx	0.019	2
64	MP3B	X	-9.502	2
65	MP3B	Z	16.458	2

Member Point Loads (BLC 10 : Antenna Wo (210 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
66	MP3B	Mx	0.019	2
67	MP3C	X	-15.371	1
68	MP3C	Z	26.624	1
69	MP3C	Mx	-0.015	1
70	MP3C	X	-15.371	2
71	MP3C	Z	26.624	2
72	MP3C	Mx	-0.015	2
73	MP3A	X	-15.902	5.5
74	MP3A	Z	27.543	5.5
75	MP3A	Mx	-0.016	5.5
76	MP3A	X	-15.902	5.5
77	MP3A	Z	27.543	5.5
78	MP3A	Mx	-0.016	5.5
79	MP3B	X	-11.626	5.5
80	MP3B	Z	20.137	5.5
81	MP3B	Mx	0.023	5.5
82	MP3B	X	-11.626	5.5
83	MP3B	Z	20.137	5.5
84	MP3B	Mx	0.023	5.5
85	MP3C	X	-15.902	5.5
86	MP3C	Z	27.543	5.5
87	MP3C	Mx	-0.016	5.5
88	MP3C	X	-15.902	5.5
89	MP3C	Z	27.543	5.5
90	MP3C	Mx	-0.016	5.5
91	MP2A	X	-33.314	2
92	MP2A	Z	57.701	2
93	MP2A	Mx	-0.017	2
94	MP2A	X	-33.314	2
95	MP2A	Z	57.701	2
96	MP2A	Mx	-0.017	2
97	MP1C	X	-66.624	0.53
98	MP1C	Z	115.396	0.53
99	MP1C	Mx	0.078	0.53
100	MP1C	X	-66.624	3.47
101	MP1C	Z	115.396	3.47
102	MP1C	Mx	0.078	3.47
103	MP5C	X	-66.624	0.53
104	MP5C	Z	115.396	0.53
105	MP5C	Mx	0.078	0.53
106	MP5C	X	-66.624	3.47
107	MP5C	Z	115.396	3.47
108	MP5C	Mx	0.078	3.47
109	MP1A	X	-36.972	0.53
110	MP1A	Z	64.037	0.53
111	MP1A	Mx	0.043	0.53
112	MP1A	X	-36.972	3.47
113	MP1A	Z	64.037	3.47
114	MP1A	Mx	0.043	3.47
115	MP5A	X	-36.972	0.53
116	MP5A	Z	64.037	0.53
117	MP5A	Mx	0.043	0.53
118	MP5A	X	-36.972	3.47
119	MP5A	Z	64.037	3.47
120	MP5A	Mx	0.043	3.47

Member Point Loads (BLC 10 : Antenna Wo (210 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
121	MP5B	X	-60.354	0.53
122	MP5B	Z	104.537	0.53
123	MP5B	Mx	-0.141	0.53
124	MP5B	X	-60.354	3.47
125	MP5B	Z	104.537	3.47
126	MP5B	Mx	-0.141	3.47
127	MP1B	X	-60.242	0.53
128	MP1B	Z	104.342	0.53
129	MP1B	Mx	-0.141	0.53
130	MP1B	X	-60.242	3.47
131	MP1B	Z	104.342	3.47
132	MP1B	Mx	-0.141	3.47
133	MP3C	X	-21.441	3.5
134	MP3C	Z	37.138	3.5
135	MP3C	Mx	-0.009	3.5
136	MP3C	X	-21.441	3.5
137	MP3C	Z	37.138	3.5
138	MP3C	Mx	-0.034	3.5

Member Point Loads (BLC 11 : Antenna Wo (240 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-60.121	0.67
2	MP3A	Z	34.711	0.67
3	MP3A	Mx	0.04	0.67
4	MP3A	X	-60.121	5.33
5	MP3A	Z	34.711	5.33
6	MP3A	Mx	0.04	5.33
7	MP3B	X	-60.121	0.67
8	MP3B	Z	34.711	0.67
9	MP3B	Mx	-0.08	0.67
10	MP3B	X	-60.121	5.33
11	MP3B	Z	34.711	5.33
12	MP3B	Mx	-0.08	5.33
13	MP3C	X	-105.139	0.67
14	MP3C	Z	60.702	0.67
15	MP3C	Mx	0.071	0.67
16	MP3C	X	-105.139	5.33
17	MP3C	Z	60.702	5.33
18	MP3C	Mx	0.071	5.33
19	MP3A	X	-60.121	0.67
20	MP3A	Z	34.711	0.67
21	MP3A	Mx	0.08	0.67
22	MP3A	X	-60.121	5.33
23	MP3A	Z	34.711	5.33
24	MP3A	Mx	0.08	5.33
25	MP3B	X	-60.121	0.67
26	MP3B	Z	34.711	0.67
27	MP3B	Mx	-0.04	0.67
28	MP3B	X	-60.121	5.33
29	MP3B	Z	34.711	5.33
30	MP3B	Mx	-0.04	5.33
31	MP3C	X	-105.139	0.67
32	MP3C	Z	60.702	0.67
33	MP3C	Mx	-0.071	0.67
34	MP3C	X	-105.139	5.33

Member Point Loads (BLC 11 : Antenna Wo (240 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
35	MP3C	Z	60.702	5.33
36	MP3C	Mx	-0.071	5.33
37	MP4A	X	-38.58	1.04
38	MP4A	Z	22.274	1.04
39	MP4A	Mx	0.039	1.04
40	MP4A	X	-38.58	2.96
41	MP4A	Z	22.274	2.96
42	MP4A	Mx	0.039	2.96
43	MP4B	X	-38.58	1.04
44	MP4B	Z	22.274	1.04
45	MP4B	Mx	-0.039	1.04
46	MP4B	X	-38.58	2.96
47	MP4B	Z	22.274	2.96
48	MP4B	Mx	-0.039	2.96
49	MP4C	X	-75.902	1.04
50	MP4C	Z	43.822	1.04
51	MP4C	Mx	0	1.04
52	MP4C	X	-75.902	2.96
53	MP4C	Z	43.822	2.96
54	MP4C	Mx	0	2.96
55	MP3A	X	-19.847	2
56	MP3A	Z	11.459	2
57	MP3A	Mx	-0.02	2
58	MP3A	X	-19.847	2
59	MP3A	Z	11.459	2
60	MP3A	Mx	-0.02	2
61	MP3B	X	-19.847	2
62	MP3B	Z	11.459	2
63	MP3B	Mx	0.02	2
64	MP3B	X	-19.847	2
65	MP3B	Z	11.459	2
66	MP3B	Mx	0.02	2
67	MP3C	X	-30.012	1
68	MP3C	Z	17.328	1
69	MP3C	Mx	0	1
70	MP3C	X	-30.012	2
71	MP3C	Z	17.328	2
72	MP3C	Mx	0	2
73	MP3A	X	-22.606	5.5
74	MP3A	Z	13.052	5.5
75	MP3A	Mx	-0.023	5.5
76	MP3A	X	-22.606	5.5
77	MP3A	Z	13.052	5.5
78	MP3A	Mx	-0.023	5.5
79	MP3B	X	-22.606	5.5
80	MP3B	Z	13.052	5.5
81	MP3B	Mx	0.023	5.5
82	MP3B	X	-22.606	5.5
83	MP3B	Z	13.052	5.5
84	MP3B	Mx	0.023	5.5
85	MP3C	X	-30.012	5.5
86	MP3C	Z	17.328	5.5
87	MP3C	Mx	0	5.5
88	MP3C	X	-30.012	5.5
89	MP3C	Z	17.328	5.5

Member Point Loads (BLC 11 : Antenna Wo (240 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
90	MP3C	Mx	0	5.5
91	MP2A	X	-50.343	2
92	MP2A	Z	29.066	2
93	MP2A	Mx	-0.025	2
94	MP2A	X	-50.343	2
95	MP2A	Z	29.066	2
96	MP2A	Mx	-0.025	2
97	MP1C	X	-119.081	0.53
98	MP1C	Z	68.751	0.53
99	MP1C	Mx	0	0.53
100	MP1C	X	-119.081	3.47
101	MP1C	Z	68.751	3.47
102	MP1C	Mx	0	3.47
103	MP5C	X	-119.081	0.53
104	MP5C	Z	68.751	0.53
105	MP5C	Mx	0	0.53
106	MP5C	X	-119.081	3.47
107	MP5C	Z	68.751	3.47
108	MP5C	Mx	0	3.47
109	MP1A	X	-91.037	0.53
110	MP1A	Z	52.56	0.53
111	MP1A	Mx	0.106	0.53
112	MP1A	X	-91.037	3.47
113	MP1A	Z	52.56	3.47
114	MP1A	Mx	0.106	3.47
115	MP5A	X	-91.037	0.53
116	MP5A	Z	52.56	0.53
117	MP5A	Mx	0.106	0.53
118	MP5A	X	-91.037	3.47
119	MP5A	Z	52.56	3.47
120	MP5A	Mx	0.106	3.47
121	MP5B	X	-91.037	0.53
122	MP5B	Z	52.56	0.53
123	MP5B	Mx	-0.106	0.53
124	MP5B	X	-91.037	3.47
125	MP5B	Z	52.56	3.47
126	MP5B	Mx	-0.106	3.47
127	MP1B	X	-108.027	0.53
128	MP1B	Z	62.369	0.53
129	MP1B	Mx	-0.126	0.53
130	MP1B	X	-108.027	3.47
131	MP1B	Z	62.369	3.47
132	MP1B	Mx	-0.126	3.47
133	MP3C	X	-37.11	3.5
134	MP3C	Z	21.426	3.5
135	MP3C	Mx	0.014	3.5
136	MP3C	X	-37.11	3.5
137	MP3C	Z	21.426	3.5
138	MP3C	Mx	-0.014	3.5

Member Point Loads (BLC 12 : Antenna Wo (270 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-52.094	0.67
2	MP3A	Z	0	0.67
3	MP3A	Mx	0.052	0.67

Member Point Loads (BLC 12 : Antenna Wo (270 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
4	MP3A	X	-52.094	5.33
5	MP3A	Z	0	5.33
6	MP3A	Mx	0.052	5.33
7	MP3B	X	-104.077	0.67
8	MP3B	Z	0	0.67
9	MP3B	Mx	-0.105	0.67
10	MP3B	X	-104.077	5.33
11	MP3B	Z	0	5.33
12	MP3B	Mx	-0.105	5.33
13	MP3C	X	-104.077	0.67
14	MP3C	Z	0	0.67
15	MP3C	Mx	0.000539	0.67
16	MP3C	X	-104.077	5.33
17	MP3C	Z	0	5.33
18	MP3C	Mx	0.000539	5.33
19	MP3A	X	-52.094	0.67
20	MP3A	Z	0	0.67
21	MP3A	Mx	0.052	0.67
22	MP3A	X	-52.094	5.33
23	MP3A	Z	0	5.33
24	MP3A	Mx	0.052	5.33
25	MP3B	X	-104.077	0.67
26	MP3B	Z	0	0.67
27	MP3B	Mx	0.000539	0.67
28	MP3B	X	-104.077	5.33
29	MP3B	Z	0	5.33
30	MP3B	Mx	0.000539	5.33
31	MP3C	X	-104.077	0.67
32	MP3C	Z	0	0.67
33	MP3C	Mx	-0.105	0.67
34	MP3C	X	-104.077	5.33
35	MP3C	Z	0	5.33
36	MP3C	Mx	-0.105	5.33
37	MP4A	X	-30.183	1.04
38	MP4A	Z	0	1.04
39	MP4A	Mx	0.03	1.04
40	MP4A	X	-30.183	2.96
41	MP4A	Z	0	2.96
42	MP4A	Mx	0.03	2.96
43	MP4B	X	-73.279	1.04
44	MP4B	Z	0	1.04
45	MP4B	Mx	-0.037	1.04
46	MP4B	X	-73.279	2.96
47	MP4B	Z	0	2.96
48	MP4B	Mx	-0.037	2.96
49	MP4C	X	-73.279	1.04
50	MP4C	Z	0	1.04
51	MP4C	Mx	-0.037	1.04
52	MP4C	X	-73.279	2.96
53	MP4C	Z	0	2.96
54	MP4C	Mx	-0.037	2.96
55	MP3A	X	-19.004	2
56	MP3A	Z	0	2
57	MP3A	Mx	-0.019	2
58	MP3A	X	-19.004	2

Member Point Loads (BLC 12 : Antenna Wo (270 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
59	MP3A	Z	0	2
60	MP3A	Mx	-0.019	2
61	MP3B	X	-30.742	2
62	MP3B	Z	0	2
63	MP3B	Mx	0.015	2
64	MP3B	X	-30.742	2
65	MP3B	Z	0	2
66	MP3B	Mx	0.015	2
67	MP3C	X	-30.742	1
68	MP3C	Z	0	1
69	MP3C	Mx	0.015	1
70	MP3C	X	-30.742	2
71	MP3C	Z	0	2
72	MP3C	Mx	0.015	2
73	MP3A	X	-23.252	5.5
74	MP3A	Z	0	5.5
75	MP3A	Mx	-0.023	5.5
76	MP3A	X	-23.252	5.5
77	MP3A	Z	0	5.5
78	MP3A	Mx	-0.023	5.5
79	MP3B	X	-31.804	5.5
80	MP3B	Z	0	5.5
81	MP3B	Mx	0.016	5.5
82	MP3B	X	-31.804	5.5
83	MP3B	Z	0	5.5
84	MP3B	Mx	0.016	5.5
85	MP3C	X	-31.804	5.5
86	MP3C	Z	0	5.5
87	MP3C	Mx	0.016	5.5
88	MP3C	X	-31.804	5.5
89	MP3C	Z	0	5.5
90	MP3C	Mx	0.016	5.5
91	MP2A	X	-53.883	2
92	MP2A	Z	0	2
93	MP2A	Mx	-0.027	2
94	MP2A	X	-53.883	2
95	MP2A	Z	0	2
96	MP2A	Mx	-0.027	2
97	MP1C	X	-133.248	0.53
98	MP1C	Z	0	0.53
99	MP1C	Mx	-0.078	0.53
100	MP1C	X	-133.248	3.47
101	MP1C	Z	0	3.47
102	MP1C	Mx	-0.078	3.47
103	MP5C	X	-133.248	0.53
104	MP5C	Z	0	0.53
105	MP5C	Mx	-0.078	0.53
106	MP5C	X	-133.248	3.47
107	MP5C	Z	0	3.47
108	MP5C	Mx	-0.078	3.47
109	MP1A	X	-120.708	0.53
110	MP1A	Z	0	0.53
111	MP1A	Mx	0.141	0.53
112	MP1A	X	-120.708	3.47
113	MP1A	Z	0	3.47

Member Point Loads (BLC 12 : Antenna Wo (270 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
114	MP1A	Mx	0.141	3.47
115	MP5A	X	-120.708	0.53
116	MP5A	Z	0	0.53
117	MP5A	Mx	0.141	0.53
118	MP5A	X	-120.708	3.47
119	MP5A	Z	0	3.47
120	MP5A	Mx	0.141	3.47
121	MP5B	X	-73.943	0.53
122	MP5B	Z	0	0.53
123	MP5B	Mx	-0.043	0.53
124	MP5B	X	-73.943	3.47
125	MP5B	Z	0	3.47
126	MP5B	Mx	-0.043	3.47
127	MP1B	X	-133.248	0.53
128	MP1B	Z	0	0.53
129	MP1B	Mx	-0.078	0.53
130	MP1B	X	-133.248	3.47
131	MP1B	Z	0	3.47
132	MP1B	Mx	-0.078	3.47
133	MP3C	X	-42.883	3.5
134	MP3C	Z	0	3.5
135	MP3C	Mx	0.034	3.5
136	MP3C	X	-42.883	3.5
137	MP3C	Z	0	3.5
138	MP3C	Mx	0.009	3.5

Member Point Loads (BLC 13 : Antenna Wo (300 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-60.121	0.67
2	MP3A	Z	-34.711	0.67
3	MP3A	Mx	0.08	0.67
4	MP3A	X	-60.121	5.33
5	MP3A	Z	-34.711	5.33
6	MP3A	Mx	0.08	5.33
7	MP3B	X	-105.139	0.67
8	MP3B	Z	-60.702	0.67
9	MP3B	Mx	-0.071	0.67
10	MP3B	X	-105.139	5.33
11	MP3B	Z	-60.702	5.33
12	MP3B	Mx	-0.071	5.33
13	MP3C	X	-60.121	0.67
14	MP3C	Z	-34.711	0.67
15	MP3C	Mx	-0.04	0.67
16	MP3C	X	-60.121	5.33
17	MP3C	Z	-34.711	5.33
18	MP3C	Mx	-0.04	5.33
19	MP3A	X	-60.121	0.67
20	MP3A	Z	-34.711	0.67
21	MP3A	Mx	0.04	0.67
22	MP3A	X	-60.121	5.33
23	MP3A	Z	-34.711	5.33
24	MP3A	Mx	0.04	5.33
25	MP3B	X	-105.139	0.67
26	MP3B	Z	-60.702	0.67
27	MP3B	Mx	0.071	0.67

Member Point Loads (BLC 13 : Antenna Wo (300 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
28	MP3B	X	-105.139	5.33
29	MP3B	Z	-60.702	5.33
30	MP3B	Mx	0.071	5.33
31	MP3C	X	-60.121	0.67
32	MP3C	Z	-34.711	0.67
33	MP3C	Mx	-0.08	0.67
34	MP3C	X	-60.121	5.33
35	MP3C	Z	-34.711	5.33
36	MP3C	Mx	-0.08	5.33
37	MP4A	X	-38.58	1.04
38	MP4A	Z	-22.274	1.04
39	MP4A	Mx	0.039	1.04
40	MP4A	X	-38.58	2.96
41	MP4A	Z	-22.274	2.96
42	MP4A	Mx	0.039	2.96
43	MP4B	X	-75.902	1.04
44	MP4B	Z	-43.822	1.04
45	MP4B	Mx	0	1.04
46	MP4B	X	-75.902	2.96
47	MP4B	Z	-43.822	2.96
48	MP4B	Mx	0	2.96
49	MP4C	X	-38.58	1.04
50	MP4C	Z	-22.274	1.04
51	MP4C	Mx	-0.039	1.04
52	MP4C	X	-38.58	2.96
53	MP4C	Z	-22.274	2.96
54	MP4C	Mx	-0.039	2.96
55	MP3A	X	-19.847	2
56	MP3A	Z	-11.459	2
57	MP3A	Mx	-0.02	2
58	MP3A	X	-19.847	2
59	MP3A	Z	-11.459	2
60	MP3A	Mx	-0.02	2
61	MP3B	X	-30.012	2
62	MP3B	Z	-17.328	2
63	MP3B	Mx	0	2
64	MP3B	X	-30.012	2
65	MP3B	Z	-17.328	2
66	MP3B	Mx	0	2
67	MP3C	X	-19.847	1
68	MP3C	Z	-11.459	1
69	MP3C	Mx	0.02	1
70	MP3C	X	-19.847	2
71	MP3C	Z	-11.459	2
72	MP3C	Mx	0.02	2
73	MP3A	X	-22.606	5.5
74	MP3A	Z	-13.052	5.5
75	MP3A	Mx	-0.023	5.5
76	MP3A	X	-22.606	5.5
77	MP3A	Z	-13.052	5.5
78	MP3A	Mx	-0.023	5.5
79	MP3B	X	-30.012	5.5
80	MP3B	Z	-17.328	5.5
81	MP3B	Mx	0	5.5
82	MP3B	X	-30.012	5.5

Member Point Loads (BLC 13 : Antenna Wo (300 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
83	MP3B	Z	-17.328	5.5
84	MP3B	Mx	0	5.5
85	MP3C	X	-22.606	5.5
86	MP3C	Z	-13.052	5.5
87	MP3C	Mx	0.023	5.5
88	MP3C	X	-22.606	5.5
89	MP3C	Z	-13.052	5.5
90	MP3C	Mx	0.023	5.5
91	MP2A	X	-50.343	2
92	MP2A	Z	-29.066	2
93	MP2A	Mx	-0.025	2
94	MP2A	X	-50.343	2
95	MP2A	Z	-29.066	2
96	MP2A	Mx	-0.025	2
97	MP1C	X	-108.027	0.53
98	MP1C	Z	-62.369	0.53
99	MP1C	Mx	-0.126	0.53
100	MP1C	X	-108.027	3.47
101	MP1C	Z	-62.369	3.47
102	MP1C	Mx	-0.126	3.47
103	MP5C	X	-108.027	0.53
104	MP5C	Z	-62.369	0.53
105	MP5C	Mx	-0.126	0.53
106	MP5C	X	-108.027	3.47
107	MP5C	Z	-62.369	3.47
108	MP5C	Mx	-0.126	3.47
109	MP1A	X	-91.037	0.53
110	MP1A	Z	-52.56	0.53
111	MP1A	Mx	0.106	0.53
112	MP1A	X	-91.037	3.47
113	MP1A	Z	-52.56	3.47
114	MP1A	Mx	0.106	3.47
115	MP5A	X	-91.037	0.53
116	MP5A	Z	-52.56	0.53
117	MP5A	Mx	0.106	0.53
118	MP5A	X	-91.037	3.47
119	MP5A	Z	-52.56	3.47
120	MP5A	Mx	0.106	3.47
121	MP5B	X	-50.537	0.53
122	MP5B	Z	-29.177	0.53
123	MP5B	Mx	-1e-6	0.53
124	MP5B	X	-50.537	3.47
125	MP5B	Z	-29.177	3.47
126	MP5B	Mx	-1e-6	3.47
127	MP1B	X	-119.081	0.53
128	MP1B	Z	-68.751	0.53
129	MP1B	Mx	0	0.53
130	MP1B	X	-119.081	3.47
131	MP1B	Z	-68.751	3.47
132	MP1B	Mx	0	3.47
133	MP3C	X	-37.192	3.5
134	MP3C	Z	-21.473	3.5
135	MP3C	Mx	0.044	3.5
136	MP3C	X	-37.192	3.5
137	MP3C	Z	-21.473	3.5

Member Point Loads (BLC 13 : Antenna Wo (300 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
138	MP3C	Mx	0.03	3.5

Member Point Loads (BLC 14 : Antenna Wo (330 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-52.039	0.67
2	MP3A	Z	-90.133	0.67
3	MP3A	Mx	0.105	0.67
4	MP3A	X	-52.039	5.33
5	MP3A	Z	-90.133	5.33
6	MP3A	Mx	0.105	5.33
7	MP3B	X	-52.039	0.67
8	MP3B	Z	-90.133	0.67
9	MP3B	Mx	-0.00054	0.67
10	MP3B	X	-52.039	5.33
11	MP3B	Z	-90.133	5.33
12	MP3B	Mx	-0.00054	5.33
13	MP3C	X	-26.047	0.67
14	MP3C	Z	-45.115	0.67
15	MP3C	Mx	-0.052	0.67
16	MP3C	X	-26.047	5.33
17	MP3C	Z	-45.115	5.33
18	MP3C	Mx	-0.052	5.33
19	MP3A	X	-52.039	0.67
20	MP3A	Z	-90.133	0.67
21	MP3A	Mx	-0.000539	0.67
22	MP3A	X	-52.039	5.33
23	MP3A	Z	-90.133	5.33
24	MP3A	Mx	-0.000539	5.33
25	MP3B	X	-52.039	0.67
26	MP3B	Z	-90.133	0.67
27	MP3B	Mx	0.105	0.67
28	MP3B	X	-52.039	5.33
29	MP3B	Z	-90.133	5.33
30	MP3B	Mx	0.105	5.33
31	MP3C	X	-26.047	0.67
32	MP3C	Z	-45.115	0.67
33	MP3C	Mx	-0.052	0.67
34	MP3C	X	-26.047	5.33
35	MP3C	Z	-45.115	5.33
36	MP3C	Mx	-0.052	5.33
37	MP4A	X	-36.639	1.04
38	MP4A	Z	-63.461	1.04
39	MP4A	Mx	0.037	1.04
40	MP4A	X	-36.639	2.96
41	MP4A	Z	-63.461	2.96
42	MP4A	Mx	0.037	2.96
43	MP4B	X	-36.639	1.04
44	MP4B	Z	-63.461	1.04
45	MP4B	Mx	0.037	1.04
46	MP4B	X	-36.639	2.96
47	MP4B	Z	-63.461	2.96
48	MP4B	Mx	0.037	2.96
49	MP4C	X	-15.092	1.04
50	MP4C	Z	-26.14	1.04
51	MP4C	Mx	-0.03	1.04

Member Point Loads (BLC 14 : Antenna Wo (330 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
52	MP4C	X	-15.092	2.96
53	MP4C	Z	-26.14	2.96
54	MP4C	Mx	-0.03	2.96
55	MP3A	X	-15.371	2
56	MP3A	Z	-26.624	2
57	MP3A	Mx	-0.015	2
58	MP3A	X	-15.371	2
59	MP3A	Z	-26.624	2
60	MP3A	Mx	-0.015	2
61	MP3B	X	-15.371	2
62	MP3B	Z	-26.624	2
63	MP3B	Mx	-0.015	2
64	MP3B	X	-15.371	2
65	MP3B	Z	-26.624	2
66	MP3B	Mx	-0.015	2
67	MP3C	X	-9.502	1
68	MP3C	Z	-16.458	1
69	MP3C	Mx	0.019	1
70	MP3C	X	-9.502	2
71	MP3C	Z	-16.458	2
72	MP3C	Mx	0.019	2
73	MP3A	X	-15.902	5.5
74	MP3A	Z	-27.543	5.5
75	MP3A	Mx	-0.016	5.5
76	MP3A	X	-15.902	5.5
77	MP3A	Z	-27.543	5.5
78	MP3A	Mx	-0.016	5.5
79	MP3B	X	-15.902	5.5
80	MP3B	Z	-27.543	5.5
81	MP3B	Mx	-0.016	5.5
82	MP3B	X	-15.902	5.5
83	MP3B	Z	-27.543	5.5
84	MP3B	Mx	-0.016	5.5
85	MP3C	X	-11.626	5.5
86	MP3C	Z	-20.137	5.5
87	MP3C	Mx	0.023	5.5
88	MP3C	X	-11.626	5.5
89	MP3C	Z	-20.137	5.5
90	MP3C	Mx	0.023	5.5
91	MP2A	X	-33.314	2
92	MP2A	Z	-57.701	2
93	MP2A	Mx	-0.017	2
94	MP2A	X	-33.314	2
95	MP2A	Z	-57.701	2
96	MP2A	Mx	-0.017	2
97	MP1C	X	-60.242	0.53
98	MP1C	Z	-104.342	0.53
99	MP1C	Mx	-0.141	0.53
100	MP1C	X	-60.242	3.47
101	MP1C	Z	-104.342	3.47
102	MP1C	Mx	-0.141	3.47
103	MP5C	X	-60.242	0.53
104	MP5C	Z	-104.342	0.53
105	MP5C	Mx	-0.141	0.53
106	MP5C	X	-60.242	3.47

Member Point Loads (BLC 14 : Antenna Wo (330 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
107	MP5C	Z	-104.342	3.47
108	MP5C	Mx	-0.141	3.47
109	MP1A	X	-36.972	0.53
110	MP1A	Z	-64.037	0.53
111	MP1A	Mx	0.043	0.53
112	MP1A	X	-36.972	3.47
113	MP1A	Z	-64.037	3.47
114	MP1A	Mx	0.043	3.47
115	MP5A	X	-36.972	0.53
116	MP5A	Z	-64.037	0.53
117	MP5A	Mx	0.043	0.53
118	MP5A	X	-36.972	3.47
119	MP5A	Z	-64.037	3.47
120	MP5A	Mx	0.043	3.47
121	MP5B	X	-36.972	0.53
122	MP5B	Z	-64.037	0.53
123	MP5B	Mx	0.043	0.53
124	MP5B	X	-36.972	3.47
125	MP5B	Z	-64.037	3.47
126	MP5B	Mx	0.043	3.47
127	MP1B	X	-66.624	0.53
128	MP1B	Z	-115.396	0.53
129	MP1B	Mx	0.078	0.53
130	MP1B	X	-66.624	3.47
131	MP1B	Z	-115.396	3.47
132	MP1B	Mx	0.078	3.47
133	MP3C	X	-21.489	3.5
134	MP3C	Z	-37.22	3.5
135	MP3C	Mx	0.043	3.5
136	MP3C	X	-21.489	3.5
137	MP3C	Z	-37.22	3.5
138	MP3C	Mx	0.043	3.5

Member Point Loads (BLC 15 : Antenna Wi (0 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	0.67
2	MP3A	Z	-36.471	0.67
3	MP3A	Mx	0.021	0.67
4	MP3A	X	0	5.33
5	MP3A	Z	-36.471	5.33
6	MP3A	Mx	0.021	5.33
7	MP3B	X	0	0.67
8	MP3B	Z	-28.377	0.67
9	MP3B	Mx	0.016	0.67
10	MP3B	X	0	5.33
11	MP3B	Z	-28.377	5.33
12	MP3B	Mx	0.016	5.33
13	MP3C	X	0	0.67
14	MP3C	Z	-28.377	0.67
15	MP3C	Mx	-0.033	0.67
16	MP3C	X	0	5.33
17	MP3C	Z	-28.377	5.33
18	MP3C	Mx	-0.033	5.33
19	MP3A	X	0	0.67
20	MP3A	Z	-36.471	0.67

Member Point Loads (BLC 15 : Antenna Wi (0 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
21	MP3A	Mx	-0.021	0.67
22	MP3A	X	0	5.33
23	MP3A	Z	-36.471	5.33
24	MP3A	Mx	-0.021	5.33
25	MP3B	X	0	0.67
26	MP3B	Z	-28.377	0.67
27	MP3B	Mx	0.033	0.67
28	MP3B	X	0	5.33
29	MP3B	Z	-28.377	5.33
30	MP3B	Mx	0.033	5.33
31	MP3C	X	0	0.67
32	MP3C	Z	-28.377	0.67
33	MP3C	Mx	-0.016	0.67
34	MP3C	X	0	5.33
35	MP3C	Z	-28.377	5.33
36	MP3C	Mx	-0.016	5.33
37	MP4A	X	0	1.04
38	MP4A	Z	-21.948	1.04
39	MP4A	Mx	0	1.04
40	MP4A	X	0	2.96
41	MP4A	Z	-21.948	2.96
42	MP4A	Mx	0	2.96
43	MP4B	X	0	1.04
44	MP4B	Z	-12.821	1.04
45	MP4B	Mx	0.011	1.04
46	MP4B	X	0	2.96
47	MP4B	Z	-12.821	2.96
48	MP4B	Mx	0.011	2.96
49	MP4C	X	0	1.04
50	MP4C	Z	-12.821	1.04
51	MP4C	Mx	-0.011	1.04
52	MP4C	X	0	2.96
53	MP4C	Z	-12.821	2.96
54	MP4C	Mx	-0.011	2.96
55	MP3A	X	0	2
56	MP3A	Z	-9.526	2
57	MP3A	Mx	0	2
58	MP3A	X	0	2
59	MP3A	Z	-9.526	2
60	MP3A	Mx	0	2
61	MP3B	X	0	2
62	MP3B	Z	-6.668	2
63	MP3B	Mx	-0.006	2
64	MP3B	X	0	2
65	MP3B	Z	-6.668	2
66	MP3B	Mx	-0.006	2
67	MP3C	X	0	1
68	MP3C	Z	-6.668	1
69	MP3C	Mx	0.006	1
70	MP3C	X	0	2
71	MP3C	Z	-6.668	2
72	MP3C	Mx	0.006	2
73	MP3A	X	0	5.5
74	MP3A	Z	-9.526	5.5
75	MP3A	Mx	0	5.5

Member Point Loads (BLC 15 : Antenna Wi (0 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
76	MP3A	X	0	5.5
77	MP3A	Z	-9.526	5.5
78	MP3A	Mx	0	5.5
79	MP3B	X	0	5.5
80	MP3B	Z	-7.455	5.5
81	MP3B	Mx	-0.006	5.5
82	MP3B	X	0	5.5
83	MP3B	Z	-7.455	5.5
84	MP3B	Mx	-0.006	5.5
85	MP3C	X	0	5.5
86	MP3C	Z	-7.455	5.5
87	MP3C	Mx	0.006	5.5
88	MP3C	X	0	5.5
89	MP3C	Z	-7.455	5.5
90	MP3C	Mx	0.006	5.5
91	MP2A	X	0	2
92	MP2A	Z	-19.065	2
93	MP2A	Mx	0	2
94	MP2A	X	0	2
95	MP2A	Z	-19.065	2
96	MP2A	Mx	0	2
97	MP1C	X	0	0.53
98	MP1C	Z	-25.641	0.53
99	MP1C	Mx	-0.026	0.53
100	MP1C	X	0	3.47
101	MP1C	Z	-25.641	3.47
102	MP1C	Mx	-0.026	3.47
103	MP5C	X	0	0.53
104	MP5C	Z	-25.641	0.53
105	MP5C	Mx	-0.026	0.53
106	MP5C	X	0	3.47
107	MP5C	Z	-25.641	3.47
108	MP5C	Mx	-0.026	3.47
109	MP1A	X	0	0.53
110	MP1A	Z	-13.504	0.53
111	MP1A	Mx	0	0.53
112	MP1A	X	0	3.47
113	MP1A	Z	-13.504	3.47
114	MP1A	Mx	0	3.47
115	MP5A	X	0	0.53
116	MP5A	Z	-13.504	0.53
117	MP5A	Mx	0	0.53
118	MP5A	X	0	3.47
119	MP5A	Z	-13.504	3.47
120	MP5A	Mx	0	3.47
121	MP5B	X	0	0.53
122	MP5B	Z	-22.055	0.53
123	MP5B	Mx	0.022	0.53
124	MP5B	X	0	3.47
125	MP5B	Z	-22.055	3.47
126	MP5B	Mx	0.022	3.47
127	MP1B	X	0	0.53
128	MP1B	Z	-25.641	0.53
129	MP1B	Mx	0.026	0.53
130	MP1B	X	0	3.47

Member Point Loads (BLC 15 : Antenna Wi (0 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
131	MP1B	Z	-25.641	3.47
132	MP1B	Mx	0.026	3.47
133	MP3C	X	0	3.5
134	MP3C	Z	-9.234	3.5
135	MP3C	Mx	0.006	3.5
136	MP3C	X	0	3.5
137	MP3C	Z	-9.234	3.5
138	MP3C	Mx	0.01	3.5

Member Point Loads (BLC 16 : Antenna Wi (30 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	16.887	0.67
2	MP3A	Z	-29.249	0.67
3	MP3A	Mx	0.000175	0.67
4	MP3A	X	16.887	5.33
5	MP3A	Z	-29.249	5.33
6	MP3A	Mx	0.000175	5.33
7	MP3B	X	12.84	0.67
8	MP3B	Z	-22.239	0.67
9	MP3B	Mx	0.026	0.67
10	MP3B	X	12.84	5.33
11	MP3B	Z	-22.239	5.33
12	MP3B	Mx	0.026	5.33
13	MP3C	X	16.887	0.67
14	MP3C	Z	-29.249	0.67
15	MP3C	Mx	-0.034	0.67
16	MP3C	X	16.887	5.33
17	MP3C	Z	-29.249	5.33
18	MP3C	Mx	-0.034	5.33
19	MP3A	X	16.887	0.67
20	MP3A	Z	-29.249	0.67
21	MP3A	Mx	-0.034	0.67
22	MP3A	X	16.887	5.33
23	MP3A	Z	-29.249	5.33
24	MP3A	Mx	-0.034	5.33
25	MP3B	X	12.84	0.67
26	MP3B	Z	-22.239	0.67
27	MP3B	Mx	0.026	0.67
28	MP3B	X	12.84	5.33
29	MP3B	Z	-22.239	5.33
30	MP3B	Mx	0.026	5.33
31	MP3C	X	16.887	0.67
32	MP3C	Z	-29.249	0.67
33	MP3C	Mx	0.000175	0.67
34	MP3C	X	16.887	5.33
35	MP3C	Z	-29.249	5.33
36	MP3C	Mx	0.000175	5.33
37	MP4A	X	9.453	1.04
38	MP4A	Z	-16.373	1.04
39	MP4A	Mx	-0.009	1.04
40	MP4A	X	9.453	2.96
41	MP4A	Z	-16.373	2.96
42	MP4A	Mx	-0.009	2.96
43	MP4B	X	4.889	1.04
44	MP4B	Z	-8.468	1.04

Member Point Loads (BLC 16 : Antenna Wi (30 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
45	MP4B	Mx	0.01	1.04
46	MP4B	X	4.889	2.96
47	MP4B	Z	-8.468	2.96
48	MP4B	Mx	0.01	2.96
49	MP4C	X	9.453	1.04
50	MP4C	Z	-16.373	1.04
51	MP4C	Mx	-0.009	1.04
52	MP4C	X	9.453	2.96
53	MP4C	Z	-16.373	2.96
54	MP4C	Mx	-0.009	2.96
55	MP3A	X	4.287	2
56	MP3A	Z	-7.425	2
57	MP3A	Mx	0.004	2
58	MP3A	X	4.287	2
59	MP3A	Z	-7.425	2
60	MP3A	Mx	0.004	2
61	MP3B	X	2.858	2
62	MP3B	Z	-4.95	2
63	MP3B	Mx	-0.006	2
64	MP3B	X	2.858	2
65	MP3B	Z	-4.95	2
66	MP3B	Mx	-0.006	2
67	MP3C	X	4.287	1
68	MP3C	Z	-7.425	1
69	MP3C	Mx	0.004	1
70	MP3C	X	4.287	2
71	MP3C	Z	-7.425	2
72	MP3C	Mx	0.004	2
73	MP3A	X	4.418	5.5
74	MP3A	Z	-7.652	5.5
75	MP3A	Mx	0.004	5.5
76	MP3A	X	4.418	5.5
77	MP3A	Z	-7.652	5.5
78	MP3A	Mx	0.004	5.5
79	MP3B	X	3.382	5.5
80	MP3B	Z	-5.859	5.5
81	MP3B	Mx	-0.007	5.5
82	MP3B	X	3.382	5.5
83	MP3B	Z	-5.859	5.5
84	MP3B	Mx	-0.007	5.5
85	MP3C	X	4.418	5.5
86	MP3C	Z	-7.652	5.5
87	MP3C	Mx	0.004	5.5
88	MP3C	X	4.418	5.5
89	MP3C	Z	-7.652	5.5
90	MP3C	Mx	0.004	5.5
91	MP2A	X	9.034	2
92	MP2A	Z	-15.648	2
93	MP2A	Mx	0.005	2
94	MP2A	X	9.034	2
95	MP2A	Z	-15.648	2
96	MP2A	Mx	0.005	2
97	MP1C	X	13.592	0.53
98	MP1C	Z	-23.542	0.53
99	MP1C	Mx	-0.016	0.53

Member Point Loads (BLC 16 : Antenna Wi (30 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
100	MP1C	X	13.592	3.47
101	MP1C	Z	-23.542	3.47
102	MP1C	Mx	-0.016	3.47
103	MP5C	X	13.592	0.53
104	MP5C	Z	-23.542	0.53
105	MP5C	Mx	-0.016	0.53
106	MP5C	X	13.592	3.47
107	MP5C	Z	-23.542	3.47
108	MP5C	Mx	-0.016	3.47
109	MP1A	X	8.177	0.53
110	MP1A	Z	-14.163	0.53
111	MP1A	Mx	-0.01	0.53
112	MP1A	X	8.177	3.47
113	MP1A	Z	-14.163	3.47
114	MP1A	Mx	-0.01	3.47
115	MP5A	X	8.177	0.53
116	MP5A	Z	-14.163	0.53
117	MP5A	Mx	-0.01	0.53
118	MP5A	X	8.177	3.47
119	MP5A	Z	-14.163	3.47
120	MP5A	Mx	-0.01	3.47
121	MP5B	X	12.453	0.53
122	MP5B	Z	-21.569	0.53
123	MP5B	Mx	0.029	0.53
124	MP5B	X	12.453	3.47
125	MP5B	Z	-21.569	3.47
126	MP5B	Mx	0.029	3.47
127	MP1B	X	12.435	0.53
128	MP1B	Z	-21.538	0.53
129	MP1B	Mx	0.029	0.53
130	MP1B	X	12.435	3.47
131	MP1B	Z	-21.538	3.47
132	MP1B	Mx	0.029	3.47
133	MP3C	X	3.042	3.5
134	MP3C	Z	-5.269	3.5
135	MP3C	Mx	0.001	3.5
136	MP3C	X	3.042	3.5
137	MP3C	Z	-5.269	3.5
138	MP3C	Mx	0.005	3.5

Member Point Loads (BLC 17 : Antenna Wi (60 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	24.576	0.67
2	MP3A	Z	-14.189	0.67
3	MP3A	Mx	-0.016	0.67
4	MP3A	X	24.576	5.33
5	MP3A	Z	-14.189	5.33
6	MP3A	Mx	-0.016	5.33
7	MP3B	X	24.576	0.67
8	MP3B	Z	-14.189	0.67
9	MP3B	Mx	0.033	0.67
10	MP3B	X	24.576	5.33
11	MP3B	Z	-14.189	5.33
12	MP3B	Mx	0.033	5.33
13	MP3C	X	31.585	0.67

Member Point Loads (BLC 17 : Antenna Wi (60 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
14	MP3C	Z	-18.236	0.67
15	MP3C	Mx	-0.021	0.67
16	MP3C	X	31.585	5.33
17	MP3C	Z	-18.236	5.33
18	MP3C	Mx	-0.021	5.33
19	MP3A	X	24.576	0.67
20	MP3A	Z	-14.189	0.67
21	MP3A	Mx	-0.033	0.67
22	MP3A	X	24.576	5.33
23	MP3A	Z	-14.189	5.33
24	MP3A	Mx	-0.033	5.33
25	MP3B	X	24.576	0.67
26	MP3B	Z	-14.189	0.67
27	MP3B	Mx	0.016	0.67
28	MP3B	X	24.576	5.33
29	MP3B	Z	-14.189	5.33
30	MP3B	Mx	0.016	5.33
31	MP3C	X	31.585	0.67
32	MP3C	Z	-18.236	0.67
33	MP3C	Mx	0.021	0.67
34	MP3C	X	31.585	5.33
35	MP3C	Z	-18.236	5.33
36	MP3C	Mx	0.021	5.33
37	MP4A	X	11.103	1.04
38	MP4A	Z	-6.41	1.04
39	MP4A	Mx	-0.011	1.04
40	MP4A	X	11.103	2.96
41	MP4A	Z	-6.41	2.96
42	MP4A	Mx	-0.011	2.96
43	MP4B	X	11.103	1.04
44	MP4B	Z	-6.41	1.04
45	MP4B	Mx	0.011	1.04
46	MP4B	X	11.103	2.96
47	MP4B	Z	-6.41	2.96
48	MP4B	Mx	0.011	2.96
49	MP4C	X	19.007	1.04
50	MP4C	Z	-10.974	1.04
51	MP4C	Mx	0	1.04
52	MP4C	X	19.007	2.96
53	MP4C	Z	-10.974	2.96
54	MP4C	Mx	0	2.96
55	MP3A	X	5.775	2
56	MP3A	Z	-3.334	2
57	MP3A	Mx	0.006	2
58	MP3A	X	5.775	2
59	MP3A	Z	-3.334	2
60	MP3A	Mx	0.006	2
61	MP3B	X	5.775	2
62	MP3B	Z	-3.334	2
63	MP3B	Mx	-0.006	2
64	MP3B	X	5.775	2
65	MP3B	Z	-3.334	2
66	MP3B	Mx	-0.006	2
67	MP3C	X	8.25	1
68	MP3C	Z	-4.763	1

Member Point Loads (BLC 17 : Antenna Wi (60 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
69	MP3C	Mx	0	1
70	MP3C	X	8.25	2
71	MP3C	Z	-4.763	2
72	MP3C	Mx	0	2
73	MP3A	X	6.456	5.5
74	MP3A	Z	-3.728	5.5
75	MP3A	Mx	0.006	5.5
76	MP3A	X	6.456	5.5
77	MP3A	Z	-3.728	5.5
78	MP3A	Mx	0.006	5.5
79	MP3B	X	6.456	5.5
80	MP3B	Z	-3.728	5.5
81	MP3B	Mx	-0.006	5.5
82	MP3B	X	6.456	5.5
83	MP3B	Z	-3.728	5.5
84	MP3B	Mx	-0.006	5.5
85	MP3C	X	8.25	5.5
86	MP3C	Z	-4.763	5.5
87	MP3C	Mx	0	5.5
88	MP3C	X	8.25	5.5
89	MP3C	Z	-4.763	5.5
90	MP3C	Mx	0	5.5
91	MP2A	X	13.924	2
92	MP2A	Z	-8.039	2
93	MP2A	Mx	0.007	2
94	MP2A	X	13.924	2
95	MP2A	Z	-8.039	2
96	MP2A	Mx	0.007	2
97	MP1C	X	24.21	0.53
98	MP1C	Z	-13.978	0.53
99	MP1C	Mx	0	0.53
100	MP1C	X	24.21	3.47
101	MP1C	Z	-13.978	3.47
102	MP1C	Mx	0	3.47
103	MP5C	X	24.21	0.53
104	MP5C	Z	-13.978	0.53
105	MP5C	Mx	0	0.53
106	MP5C	X	24.21	3.47
107	MP5C	Z	-13.978	3.47
108	MP5C	Mx	0	3.47
109	MP1A	X	19.1	0.53
110	MP1A	Z	-11.028	0.53
111	MP1A	Mx	-0.022	0.53
112	MP1A	X	19.1	3.47
113	MP1A	Z	-11.028	3.47
114	MP1A	Mx	-0.022	3.47
115	MP5A	X	19.1	0.53
116	MP5A	Z	-11.028	0.53
117	MP5A	Mx	-0.022	0.53
118	MP5A	X	19.1	3.47
119	MP5A	Z	-11.028	3.47
120	MP5A	Mx	-0.022	3.47
121	MP5B	X	19.1	0.53
122	MP5B	Z	-11.028	0.53
123	MP5B	Mx	0.022	0.53

Member Point Loads (BLC 17 : Antenna Wi (60 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
124	MP5B	X	19.1	3.47
125	MP5B	Z	-11.028	3.47
126	MP5B	Mx	0.022	3.47
127	MP1B	X	22.206	0.53
128	MP1B	Z	-12.82	0.53
129	MP1B	Mx	0.026	0.53
130	MP1B	X	22.206	3.47
131	MP1B	Z	-12.82	3.47
132	MP1B	Mx	0.026	3.47
133	MP3C	X	3.905	3.5
134	MP3C	Z	-2.254	3.5
135	MP3C	Mx	-0.002	3.5
136	MP3C	X	3.905	3.5
137	MP3C	Z	-2.254	3.5
138	MP3C	Mx	0.002	3.5

Member Point Loads (BLC 18 : Antenna Wi (90 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	25.68	0.67
2	MP3A	Z	0	0.67
3	MP3A	Mx	-0.026	0.67
4	MP3A	X	25.68	5.33
5	MP3A	Z	0	5.33
6	MP3A	Mx	-0.026	5.33
7	MP3B	X	33.773	0.67
8	MP3B	Z	0	0.67
9	MP3B	Mx	0.034	0.67
10	MP3B	X	33.773	5.33
11	MP3B	Z	0	5.33
12	MP3B	Mx	0.034	5.33
13	MP3C	X	33.773	0.67
14	MP3C	Z	0	0.67
15	MP3C	Mx	-0.000175	0.67
16	MP3C	X	33.773	5.33
17	MP3C	Z	0	5.33
18	MP3C	Mx	-0.000175	5.33
19	MP3A	X	25.68	0.67
20	MP3A	Z	0	0.67
21	MP3A	Mx	-0.026	0.67
22	MP3A	X	25.68	5.33
23	MP3A	Z	0	5.33
24	MP3A	Mx	-0.026	5.33
25	MP3B	X	33.773	0.67
26	MP3B	Z	0	0.67
27	MP3B	Mx	-0.000175	0.67
28	MP3B	X	33.773	5.33
29	MP3B	Z	0	5.33
30	MP3B	Mx	-0.000175	5.33
31	MP3C	X	33.773	0.67
32	MP3C	Z	0	0.67
33	MP3C	Mx	0.034	0.67
34	MP3C	X	33.773	5.33
35	MP3C	Z	0	5.33
36	MP3C	Mx	0.034	5.33
37	MP4A	X	9.778	1.04

Member Point Loads (BLC 18 : Antenna Wi (90 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
38	MP4A	Z	0	1.04
39	MP4A	Mx	-0.01	1.04
40	MP4A	X	9.778	2.96
41	MP4A	Z	0	2.96
42	MP4A	Mx	-0.01	2.96
43	MP4B	X	18.905	1.04
44	MP4B	Z	0	1.04
45	MP4B	Mx	0.009	1.04
46	MP4B	X	18.905	2.96
47	MP4B	Z	0	2.96
48	MP4B	Mx	0.009	2.96
49	MP4C	X	18.905	1.04
50	MP4C	Z	0	1.04
51	MP4C	Mx	0.009	1.04
52	MP4C	X	18.905	2.96
53	MP4C	Z	0	2.96
54	MP4C	Mx	0.009	2.96
55	MP3A	X	5.716	2
56	MP3A	Z	0	2
57	MP3A	Mx	0.006	2
58	MP3A	X	5.716	2
59	MP3A	Z	0	2
60	MP3A	Mx	0.006	2
61	MP3B	X	8.573	2
62	MP3B	Z	0	2
63	MP3B	Mx	-0.004	2
64	MP3B	X	8.573	2
65	MP3B	Z	0	2
66	MP3B	Mx	-0.004	2
67	MP3C	X	8.573	1
68	MP3C	Z	0	1
69	MP3C	Mx	-0.004	1
70	MP3C	X	8.573	2
71	MP3C	Z	0	2
72	MP3C	Mx	-0.004	2
73	MP3A	X	6.765	5.5
74	MP3A	Z	0	5.5
75	MP3A	Mx	0.007	5.5
76	MP3A	X	6.765	5.5
77	MP3A	Z	0	5.5
78	MP3A	Mx	0.007	5.5
79	MP3B	X	8.836	5.5
80	MP3B	Z	0	5.5
81	MP3B	Mx	-0.004	5.5
82	MP3B	X	8.836	5.5
83	MP3B	Z	0	5.5
84	MP3B	Mx	-0.004	5.5
85	MP3C	X	8.836	5.5
86	MP3C	Z	0	5.5
87	MP3C	Mx	-0.004	5.5
88	MP3C	X	8.836	5.5
89	MP3C	Z	0	5.5
90	MP3C	Mx	-0.004	5.5
91	MP2A	X	15.082	2
92	MP2A	Z	0	2

Member Point Loads (BLC 18 : Antenna Wi (90 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
93	MP2A	Mx	0.008	2
94	MP2A	X	15.082	2
95	MP2A	Z	0	2
96	MP2A	Mx	0.008	2
97	MP1C	X	27.184	0.53
98	MP1C	Z	0	0.53
99	MP1C	Mx	0.016	0.53
100	MP1C	X	27.184	3.47
101	MP1C	Z	0	3.47
102	MP1C	Mx	0.016	3.47
103	MP5C	X	27.184	0.53
104	MP5C	Z	0	0.53
105	MP5C	Mx	0.016	0.53
106	MP5C	X	27.184	3.47
107	MP5C	Z	0	3.47
108	MP5C	Mx	0.016	3.47
109	MP1A	X	24.905	0.53
110	MP1A	Z	0	0.53
111	MP1A	Mx	-0.029	0.53
112	MP1A	X	24.905	3.47
113	MP1A	Z	0	3.47
114	MP1A	Mx	-0.029	3.47
115	MP5A	X	24.905	0.53
116	MP5A	Z	0	0.53
117	MP5A	Mx	-0.029	0.53
118	MP5A	X	24.905	3.47
119	MP5A	Z	0	3.47
120	MP5A	Mx	-0.029	3.47
121	MP5B	X	16.354	0.53
122	MP5B	Z	0	0.53
123	MP5B	Mx	0.01	0.53
124	MP5B	X	16.354	3.47
125	MP5B	Z	0	3.47
126	MP5B	Mx	0.01	3.47
127	MP1B	X	27.184	0.53
128	MP1B	Z	0	0.53
129	MP1B	Mx	0.016	0.53
130	MP1B	X	27.184	3.47
131	MP1B	Z	0	3.47
132	MP1B	Mx	0.016	3.47
133	MP3C	X	6.084	3.5
134	MP3C	Z	0	3.5
135	MP3C	Mx	-0.005	3.5
136	MP3C	X	6.084	3.5
137	MP3C	Z	0	3.5
138	MP3C	Mx	-0.001	3.5

Member Point Loads (BLC 19 : Antenna Wi (120 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	24.576	0.67
2	MP3A	Z	14.189	0.67
3	MP3A	Mx	-0.033	0.67
4	MP3A	X	24.576	5.33
5	MP3A	Z	14.189	5.33
6	MP3A	Mx	-0.033	5.33

Member Point Loads (BLC 19 : Antenna Wi (120 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
7	MP3B	X	31.585	0.67
8	MP3B	Z	18.236	0.67
9	MP3B	Mx	0.021	0.67
10	MP3B	X	31.585	5.33
11	MP3B	Z	18.236	5.33
12	MP3B	Mx	0.021	5.33
13	MP3C	X	24.576	0.67
14	MP3C	Z	14.189	0.67
15	MP3C	Mx	0.016	0.67
16	MP3C	X	24.576	5.33
17	MP3C	Z	14.189	5.33
18	MP3C	Mx	0.016	5.33
19	MP3A	X	24.576	0.67
20	MP3A	Z	14.189	0.67
21	MP3A	Mx	-0.016	0.67
22	MP3A	X	24.576	5.33
23	MP3A	Z	14.189	5.33
24	MP3A	Mx	-0.016	5.33
25	MP3B	X	31.585	0.67
26	MP3B	Z	18.236	0.67
27	MP3B	Mx	-0.021	0.67
28	MP3B	X	31.585	5.33
29	MP3B	Z	18.236	5.33
30	MP3B	Mx	-0.021	5.33
31	MP3C	X	24.576	0.67
32	MP3C	Z	14.189	0.67
33	MP3C	Mx	0.033	0.67
34	MP3C	X	24.576	5.33
35	MP3C	Z	14.189	5.33
36	MP3C	Mx	0.033	5.33
37	MP4A	X	11.103	1.04
38	MP4A	Z	6.41	1.04
39	MP4A	Mx	-0.011	1.04
40	MP4A	X	11.103	2.96
41	MP4A	Z	6.41	2.96
42	MP4A	Mx	-0.011	2.96
43	MP4B	X	19.007	1.04
44	MP4B	Z	10.974	1.04
45	MP4B	Mx	0	1.04
46	MP4B	X	19.007	2.96
47	MP4B	Z	10.974	2.96
48	MP4B	Mx	0	2.96
49	MP4C	X	11.103	1.04
50	MP4C	Z	6.41	1.04
51	MP4C	Mx	0.011	1.04
52	MP4C	X	11.103	2.96
53	MP4C	Z	6.41	2.96
54	MP4C	Mx	0.011	2.96
55	MP3A	X	5.775	2
56	MP3A	Z	3.334	2
57	MP3A	Mx	0.006	2
58	MP3A	X	5.775	2
59	MP3A	Z	3.334	2
60	MP3A	Mx	0.006	2
61	MP3B	X	8.25	2

Member Point Loads (BLC 19 : Antenna Wi (120 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
62	MP3B	Z	4.763	2
63	MP3B	Mx	0	2
64	MP3B	X	8.25	2
65	MP3B	Z	4.763	2
66	MP3B	Mx	0	2
67	MP3C	X	5.775	1
68	MP3C	Z	3.334	1
69	MP3C	Mx	-0.006	1
70	MP3C	X	5.775	2
71	MP3C	Z	3.334	2
72	MP3C	Mx	-0.006	2
73	MP3A	X	6.456	5.5
74	MP3A	Z	3.728	5.5
75	MP3A	Mx	0.006	5.5
76	MP3A	X	6.456	5.5
77	MP3A	Z	3.728	5.5
78	MP3A	Mx	0.006	5.5
79	MP3B	X	8.25	5.5
80	MP3B	Z	4.763	5.5
81	MP3B	Mx	0	5.5
82	MP3B	X	8.25	5.5
83	MP3B	Z	4.763	5.5
84	MP3B	Mx	0	5.5
85	MP3C	X	6.456	5.5
86	MP3C	Z	3.728	5.5
87	MP3C	Mx	-0.006	5.5
88	MP3C	X	6.456	5.5
89	MP3C	Z	3.728	5.5
90	MP3C	Mx	-0.006	5.5
91	MP2A	X	13.924	2
92	MP2A	Z	8.039	2
93	MP2A	Mx	0.007	2
94	MP2A	X	13.924	2
95	MP2A	Z	8.039	2
96	MP2A	Mx	0.007	2
97	MP1C	X	22.206	0.53
98	MP1C	Z	12.82	0.53
99	MP1C	Mx	0.026	0.53
100	MP1C	X	22.206	3.47
101	MP1C	Z	12.82	3.47
102	MP1C	Mx	0.026	3.47
103	MP5C	X	22.206	0.53
104	MP5C	Z	12.82	0.53
105	MP5C	Mx	0.026	0.53
106	MP5C	X	22.206	3.47
107	MP5C	Z	12.82	3.47
108	MP5C	Mx	0.026	3.47
109	MP1A	X	19.1	0.53
110	MP1A	Z	11.028	0.53
111	MP1A	Mx	-0.022	0.53
112	MP1A	X	19.1	3.47
113	MP1A	Z	11.028	3.47
114	MP1A	Mx	-0.022	3.47
115	MP5A	X	19.1	0.53
116	MP5A	Z	11.028	0.53

Member Point Loads (BLC 19 : Antenna Wi (120 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
117	MP5A	Mx	-0.022	0.53
118	MP5A	X	19.1	3.47
119	MP5A	Z	11.028	3.47
120	MP5A	Mx	-0.022	3.47
121	MP5B	X	11.695	0.53
122	MP5B	Z	6.752	0.53
123	MP5B	Mx	0	0.53
124	MP5B	X	11.695	3.47
125	MP5B	Z	6.752	3.47
126	MP5B	Mx	0	3.47
127	MP1B	X	24.21	0.53
128	MP1B	Z	13.978	0.53
129	MP1B	Mx	0	0.53
130	MP1B	X	24.21	3.47
131	MP1B	Z	13.978	3.47
132	MP1B	Mx	0	3.47
133	MP3C	X	7.997	3.5
134	MP3C	Z	4.617	3.5
135	MP3C	Mx	-0.01	3.5
136	MP3C	X	7.997	3.5
137	MP3C	Z	4.617	3.5
138	MP3C	Mx	-0.006	3.5

Member Point Loads (BLC 20 : Antenna Wi (150 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	16.887	0.67
2	MP3A	Z	29.249	0.67
3	MP3A	Mx	-0.034	0.67
4	MP3A	X	16.887	5.33
5	MP3A	Z	29.249	5.33
6	MP3A	Mx	-0.034	5.33
7	MP3B	X	16.887	0.67
8	MP3B	Z	29.249	0.67
9	MP3B	Mx	0.000175	0.67
10	MP3B	X	16.887	5.33
11	MP3B	Z	29.249	5.33
12	MP3B	Mx	0.000175	5.33
13	MP3C	X	12.84	0.67
14	MP3C	Z	22.239	0.67
15	MP3C	Mx	0.026	0.67
16	MP3C	X	12.84	5.33
17	MP3C	Z	22.239	5.33
18	MP3C	Mx	0.026	5.33
19	MP3A	X	16.887	0.67
20	MP3A	Z	29.249	0.67
21	MP3A	Mx	0.000175	0.67
22	MP3A	X	16.887	5.33
23	MP3A	Z	29.249	5.33
24	MP3A	Mx	0.000175	5.33
25	MP3B	X	16.887	0.67
26	MP3B	Z	29.249	0.67
27	MP3B	Mx	-0.034	0.67
28	MP3B	X	16.887	5.33
29	MP3B	Z	29.249	5.33
30	MP3B	Mx	-0.034	5.33

Member Point Loads (BLC 20 : Antenna Wi (150 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
31	MP3C	X	12.84	0.67
32	MP3C	Z	22.239	0.67
33	MP3C	Mx	0.026	0.67
34	MP3C	X	12.84	5.33
35	MP3C	Z	22.239	5.33
36	MP3C	Mx	0.026	5.33
37	MP4A	X	9.453	1.04
38	MP4A	Z	16.373	1.04
39	MP4A	Mx	-0.009	1.04
40	MP4A	X	9.453	2.96
41	MP4A	Z	16.373	2.96
42	MP4A	Mx	-0.009	2.96
43	MP4B	X	9.453	1.04
44	MP4B	Z	16.373	1.04
45	MP4B	Mx	-0.009	1.04
46	MP4B	X	9.453	2.96
47	MP4B	Z	16.373	2.96
48	MP4B	Mx	-0.009	2.96
49	MP4C	X	4.889	1.04
50	MP4C	Z	8.468	1.04
51	MP4C	Mx	0.01	1.04
52	MP4C	X	4.889	2.96
53	MP4C	Z	8.468	2.96
54	MP4C	Mx	0.01	2.96
55	MP3A	X	4.287	2
56	MP3A	Z	7.425	2
57	MP3A	Mx	0.004	2
58	MP3A	X	4.287	2
59	MP3A	Z	7.425	2
60	MP3A	Mx	0.004	2
61	MP3B	X	4.287	2
62	MP3B	Z	7.425	2
63	MP3B	Mx	0.004	2
64	MP3B	X	4.287	2
65	MP3B	Z	7.425	2
66	MP3B	Mx	0.004	2
67	MP3C	X	2.858	1
68	MP3C	Z	4.95	1
69	MP3C	Mx	-0.006	1
70	MP3C	X	2.858	2
71	MP3C	Z	4.95	2
72	MP3C	Mx	-0.006	2
73	MP3A	X	4.418	5.5
74	MP3A	Z	7.652	5.5
75	MP3A	Mx	0.004	5.5
76	MP3A	X	4.418	5.5
77	MP3A	Z	7.652	5.5
78	MP3A	Mx	0.004	5.5
79	MP3B	X	4.418	5.5
80	MP3B	Z	7.652	5.5
81	MP3B	Mx	0.004	5.5
82	MP3B	X	4.418	5.5
83	MP3B	Z	7.652	5.5
84	MP3B	Mx	0.004	5.5
85	MP3C	X	3.382	5.5

Member Point Loads (BLC 20 : Antenna Wi (150 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
86	MP3C	Z	5.859	5.5
87	MP3C	Mx	-0.007	5.5
88	MP3C	X	3.382	5.5
89	MP3C	Z	5.859	5.5
90	MP3C	Mx	-0.007	5.5
91	MP2A	X	9.034	2
92	MP2A	Z	15.648	2
93	MP2A	Mx	0.005	2
94	MP2A	X	9.034	2
95	MP2A	Z	15.648	2
96	MP2A	Mx	0.005	2
97	MP1C	X	12.435	0.53
98	MP1C	Z	21.538	0.53
99	MP1C	Mx	0.029	0.53
100	MP1C	X	12.435	3.47
101	MP1C	Z	21.538	3.47
102	MP1C	Mx	0.029	3.47
103	MP5C	X	12.435	0.53
104	MP5C	Z	21.538	0.53
105	MP5C	Mx	0.029	0.53
106	MP5C	X	12.435	3.47
107	MP5C	Z	21.538	3.47
108	MP5C	Mx	0.029	3.47
109	MP1A	X	8.177	0.53
110	MP1A	Z	14.163	0.53
111	MP1A	Mx	-0.01	0.53
112	MP1A	X	8.177	3.47
113	MP1A	Z	14.163	3.47
114	MP1A	Mx	-0.01	3.47
115	MP5A	X	8.177	0.53
116	MP5A	Z	14.163	0.53
117	MP5A	Mx	-0.01	0.53
118	MP5A	X	8.177	3.47
119	MP5A	Z	14.163	3.47
120	MP5A	Mx	-0.01	3.47
121	MP5B	X	8.177	0.53
122	MP5B	Z	14.163	0.53
123	MP5B	Mx	-0.01	0.53
124	MP5B	X	8.177	3.47
125	MP5B	Z	14.163	3.47
126	MP5B	Mx	-0.01	3.47
127	MP1B	X	13.592	0.53
128	MP1B	Z	23.542	0.53
129	MP1B	Mx	-0.016	0.53
130	MP1B	X	13.592	3.47
131	MP1B	Z	23.542	3.47
132	MP1B	Mx	-0.016	3.47
133	MP3C	X	5.404	3.5
134	MP3C	Z	9.361	3.5
135	MP3C	Mx	-0.011	3.5
136	MP3C	X	5.404	3.5
137	MP3C	Z	9.361	3.5
138	MP3C	Mx	-0.011	3.5

Member Point Loads (BLC 21 : Antenna Wi (180 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	0.67
2	MP3A	Z	36.471	0.67
3	MP3A	Mx	-0.021	0.67
4	MP3A	X	0	5.33
5	MP3A	Z	36.471	5.33
6	MP3A	Mx	-0.021	5.33
7	MP3B	X	0	0.67
8	MP3B	Z	28.377	0.67
9	MP3B	Mx	-0.016	0.67
10	MP3B	X	0	5.33
11	MP3B	Z	28.377	5.33
12	MP3B	Mx	-0.016	5.33
13	MP3C	X	0	0.67
14	MP3C	Z	28.377	0.67
15	MP3C	Mx	0.033	0.67
16	MP3C	X	0	5.33
17	MP3C	Z	28.377	5.33
18	MP3C	Mx	0.033	5.33
19	MP3A	X	0	0.67
20	MP3A	Z	36.471	0.67
21	MP3A	Mx	0.021	0.67
22	MP3A	X	0	5.33
23	MP3A	Z	36.471	5.33
24	MP3A	Mx	0.021	5.33
25	MP3B	X	0	0.67
26	MP3B	Z	28.377	0.67
27	MP3B	Mx	-0.033	0.67
28	MP3B	X	0	5.33
29	MP3B	Z	28.377	5.33
30	MP3B	Mx	-0.033	5.33
31	MP3C	X	0	0.67
32	MP3C	Z	28.377	0.67
33	MP3C	Mx	0.016	0.67
34	MP3C	X	0	5.33
35	MP3C	Z	28.377	5.33
36	MP3C	Mx	0.016	5.33
37	MP4A	X	0	1.04
38	MP4A	Z	21.948	1.04
39	MP4A	Mx	0	1.04
40	MP4A	X	0	2.96
41	MP4A	Z	21.948	2.96
42	MP4A	Mx	0	2.96
43	MP4B	X	0	1.04
44	MP4B	Z	12.821	1.04
45	MP4B	Mx	-0.011	1.04
46	MP4B	X	0	2.96
47	MP4B	Z	12.821	2.96
48	MP4B	Mx	-0.011	2.96
49	MP4C	X	0	1.04
50	MP4C	Z	12.821	1.04
51	MP4C	Mx	0.011	1.04
52	MP4C	X	0	2.96
53	MP4C	Z	12.821	2.96
54	MP4C	Mx	0.011	2.96
55	MP3A	X	0	2

Member Point Loads (BLC 21 : Antenna Wi (180 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP3A	Z	9.526	2
57	MP3A	Mx	0	2
58	MP3A	X	0	2
59	MP3A	Z	9.526	2
60	MP3A	Mx	0	2
61	MP3B	X	0	2
62	MP3B	Z	6.668	2
63	MP3B	Mx	0.006	2
64	MP3B	X	0	2
65	MP3B	Z	6.668	2
66	MP3B	Mx	0.006	2
67	MP3C	X	0	1
68	MP3C	Z	6.668	1
69	MP3C	Mx	-0.006	1
70	MP3C	X	0	2
71	MP3C	Z	6.668	2
72	MP3C	Mx	-0.006	2
73	MP3A	X	0	5.5
74	MP3A	Z	9.526	5.5
75	MP3A	Mx	0	5.5
76	MP3A	X	0	5.5
77	MP3A	Z	9.526	5.5
78	MP3A	Mx	0	5.5
79	MP3B	X	0	5.5
80	MP3B	Z	7.455	5.5
81	MP3B	Mx	0.006	5.5
82	MP3B	X	0	5.5
83	MP3B	Z	7.455	5.5
84	MP3B	Mx	0.006	5.5
85	MP3C	X	0	5.5
86	MP3C	Z	7.455	5.5
87	MP3C	Mx	-0.006	5.5
88	MP3C	X	0	5.5
89	MP3C	Z	7.455	5.5
90	MP3C	Mx	-0.006	5.5
91	MP2A	X	0	2
92	MP2A	Z	19.065	2
93	MP2A	Mx	0	2
94	MP2A	X	0	2
95	MP2A	Z	19.065	2
96	MP2A	Mx	0	2
97	MP1C	X	0	0.53
98	MP1C	Z	25.641	0.53
99	MP1C	Mx	0.026	0.53
100	MP1C	X	0	3.47
101	MP1C	Z	25.641	3.47
102	MP1C	Mx	0.026	3.47
103	MP5C	X	0	0.53
104	MP5C	Z	25.641	0.53
105	MP5C	Mx	0.026	0.53
106	MP5C	X	0	3.47
107	MP5C	Z	25.641	3.47
108	MP5C	Mx	0.026	3.47
109	MP1A	X	0	0.53
110	MP1A	Z	13.504	0.53

Member Point Loads (BLC 21 : Antenna Wi (180 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
111	MP1A	Mx	0	0.53
112	MP1A	X	0	3.47
113	MP1A	Z	13.504	3.47
114	MP1A	Mx	0	3.47
115	MP5A	X	0	0.53
116	MP5A	Z	13.504	0.53
117	MP5A	Mx	0	0.53
118	MP5A	X	0	3.47
119	MP5A	Z	13.504	3.47
120	MP5A	Mx	0	3.47
121	MP5B	X	0	0.53
122	MP5B	Z	22.055	0.53
123	MP5B	Mx	-0.022	0.53
124	MP5B	X	0	3.47
125	MP5B	Z	22.055	3.47
126	MP5B	Mx	-0.022	3.47
127	MP1B	X	0	0.53
128	MP1B	Z	25.641	0.53
129	MP1B	Mx	-0.026	0.53
130	MP1B	X	0	3.47
131	MP1B	Z	25.641	3.47
132	MP1B	Mx	-0.026	3.47
133	MP3C	X	0	3.5
134	MP3C	Z	9.234	3.5
135	MP3C	Mx	-0.006	3.5
136	MP3C	X	0	3.5
137	MP3C	Z	9.234	3.5
138	MP3C	Mx	-0.01	3.5

Member Point Loads (BLC 22 : Antenna Wi (210 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-16.887	0.67
2	MP3A	Z	29.249	0.67
3	MP3A	Mx	-0.000175	0.67
4	MP3A	X	-16.887	5.33
5	MP3A	Z	29.249	5.33
6	MP3A	Mx	-0.000175	5.33
7	MP3B	X	-12.84	0.67
8	MP3B	Z	22.239	0.67
9	MP3B	Mx	-0.026	0.67
10	MP3B	X	-12.84	5.33
11	MP3B	Z	22.239	5.33
12	MP3B	Mx	-0.026	5.33
13	MP3C	X	-16.887	0.67
14	MP3C	Z	29.249	0.67
15	MP3C	Mx	0.034	0.67
16	MP3C	X	-16.887	5.33
17	MP3C	Z	29.249	5.33
18	MP3C	Mx	0.034	5.33
19	MP3A	X	-16.887	0.67
20	MP3A	Z	29.249	0.67
21	MP3A	Mx	0.034	0.67
22	MP3A	X	-16.887	5.33
23	MP3A	Z	29.249	5.33
24	MP3A	Mx	0.034	5.33

Member Point Loads (BLC 22 : Antenna Wi (210 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
25	MP3B	X	-12.84	0.67
26	MP3B	Z	22.239	0.67
27	MP3B	Mx	-0.026	0.67
28	MP3B	X	-12.84	5.33
29	MP3B	Z	22.239	5.33
30	MP3B	Mx	-0.026	5.33
31	MP3C	X	-16.887	0.67
32	MP3C	Z	29.249	0.67
33	MP3C	Mx	-0.000175	0.67
34	MP3C	X	-16.887	5.33
35	MP3C	Z	29.249	5.33
36	MP3C	Mx	-0.000175	5.33
37	MP4A	X	-9.453	1.04
38	MP4A	Z	16.373	1.04
39	MP4A	Mx	0.009	1.04
40	MP4A	X	-9.453	2.96
41	MP4A	Z	16.373	2.96
42	MP4A	Mx	0.009	2.96
43	MP4B	X	-4.889	1.04
44	MP4B	Z	8.468	1.04
45	MP4B	Mx	-0.01	1.04
46	MP4B	X	-4.889	2.96
47	MP4B	Z	8.468	2.96
48	MP4B	Mx	-0.01	2.96
49	MP4C	X	-9.453	1.04
50	MP4C	Z	16.373	1.04
51	MP4C	Mx	0.009	1.04
52	MP4C	X	-9.453	2.96
53	MP4C	Z	16.373	2.96
54	MP4C	Mx	0.009	2.96
55	MP3A	X	-4.287	2
56	MP3A	Z	7.425	2
57	MP3A	Mx	-0.004	2
58	MP3A	X	-4.287	2
59	MP3A	Z	7.425	2
60	MP3A	Mx	-0.004	2
61	MP3B	X	-2.858	2
62	MP3B	Z	4.95	2
63	MP3B	Mx	0.006	2
64	MP3B	X	-2.858	2
65	MP3B	Z	4.95	2
66	MP3B	Mx	0.006	2
67	MP3C	X	-4.287	1
68	MP3C	Z	7.425	1
69	MP3C	Mx	-0.004	1
70	MP3C	X	-4.287	2
71	MP3C	Z	7.425	2
72	MP3C	Mx	-0.004	2
73	MP3A	X	-4.418	5.5
74	MP3A	Z	7.652	5.5
75	MP3A	Mx	-0.004	5.5
76	MP3A	X	-4.418	5.5
77	MP3A	Z	7.652	5.5
78	MP3A	Mx	-0.004	5.5
79	MP3B	X	-3.382	5.5

Member Point Loads (BLC 22 : Antenna Wi (210 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
80	MP3B	Z	5.859	5.5
81	MP3B	Mx	0.007	5.5
82	MP3B	X	-3.382	5.5
83	MP3B	Z	5.859	5.5
84	MP3B	Mx	0.007	5.5
85	MP3C	X	-4.418	5.5
86	MP3C	Z	7.652	5.5
87	MP3C	Mx	-0.004	5.5
88	MP3C	X	-4.418	5.5
89	MP3C	Z	7.652	5.5
90	MP3C	Mx	-0.004	5.5
91	MP2A	X	-9.034	2
92	MP2A	Z	15.648	2
93	MP2A	Mx	-0.005	2
94	MP2A	X	-9.034	2
95	MP2A	Z	15.648	2
96	MP2A	Mx	-0.005	2
97	MP1C	X	-13.592	0.53
98	MP1C	Z	23.542	0.53
99	MP1C	Mx	0.016	0.53
100	MP1C	X	-13.592	3.47
101	MP1C	Z	23.542	3.47
102	MP1C	Mx	0.016	3.47
103	MP5C	X	-13.592	0.53
104	MP5C	Z	23.542	0.53
105	MP5C	Mx	0.016	0.53
106	MP5C	X	-13.592	3.47
107	MP5C	Z	23.542	3.47
108	MP5C	Mx	0.016	3.47
109	MP1A	X	-8.177	0.53
110	MP1A	Z	14.163	0.53
111	MP1A	Mx	0.01	0.53
112	MP1A	X	-8.177	3.47
113	MP1A	Z	14.163	3.47
114	MP1A	Mx	0.01	3.47
115	MP5A	X	-8.177	0.53
116	MP5A	Z	14.163	0.53
117	MP5A	Mx	0.01	0.53
118	MP5A	X	-8.177	3.47
119	MP5A	Z	14.163	3.47
120	MP5A	Mx	0.01	3.47
121	MP5B	X	-12.453	0.53
122	MP5B	Z	21.569	0.53
123	MP5B	Mx	-0.029	0.53
124	MP5B	X	-12.453	3.47
125	MP5B	Z	21.569	3.47
126	MP5B	Mx	-0.029	3.47
127	MP1B	X	-12.435	0.53
128	MP1B	Z	21.538	0.53
129	MP1B	Mx	-0.029	0.53
130	MP1B	X	-12.435	3.47
131	MP1B	Z	21.538	3.47
132	MP1B	Mx	-0.029	3.47
133	MP3C	X	-3.042	3.5
134	MP3C	Z	5.269	3.5

Member Point Loads (BLC 22 : Antenna Wi (210 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
135	MP3C	Mx	-0.001	3.5
136	MP3C	X	-3.042	3.5
137	MP3C	Z	5.269	3.5
138	MP3C	Mx	-0.005	3.5

Member Point Loads (BLC 23 : Antenna Wi (240 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-24.576	0.67
2	MP3A	Z	14.189	0.67
3	MP3A	Mx	0.016	0.67
4	MP3A	X	-24.576	5.33
5	MP3A	Z	14.189	5.33
6	MP3A	Mx	0.016	5.33
7	MP3B	X	-24.576	0.67
8	MP3B	Z	14.189	0.67
9	MP3B	Mx	-0.033	0.67
10	MP3B	X	-24.576	5.33
11	MP3B	Z	14.189	5.33
12	MP3B	Mx	-0.033	5.33
13	MP3C	X	-31.585	0.67
14	MP3C	Z	18.236	0.67
15	MP3C	Mx	0.021	0.67
16	MP3C	X	-31.585	5.33
17	MP3C	Z	18.236	5.33
18	MP3C	Mx	0.021	5.33
19	MP3A	X	-24.576	0.67
20	MP3A	Z	14.189	0.67
21	MP3A	Mx	0.033	0.67
22	MP3A	X	-24.576	5.33
23	MP3A	Z	14.189	5.33
24	MP3A	Mx	0.033	5.33
25	MP3B	X	-24.576	0.67
26	MP3B	Z	14.189	0.67
27	MP3B	Mx	-0.016	0.67
28	MP3B	X	-24.576	5.33
29	MP3B	Z	14.189	5.33
30	MP3B	Mx	-0.016	5.33
31	MP3C	X	-31.585	0.67
32	MP3C	Z	18.236	0.67
33	MP3C	Mx	-0.021	0.67
34	MP3C	X	-31.585	5.33
35	MP3C	Z	18.236	5.33
36	MP3C	Mx	-0.021	5.33
37	MP4A	X	-11.103	1.04
38	MP4A	Z	6.41	1.04
39	MP4A	Mx	0.011	1.04
40	MP4A	X	-11.103	2.96
41	MP4A	Z	6.41	2.96
42	MP4A	Mx	0.011	2.96
43	MP4B	X	-11.103	1.04
44	MP4B	Z	6.41	1.04
45	MP4B	Mx	-0.011	1.04
46	MP4B	X	-11.103	2.96
47	MP4B	Z	6.41	2.96
48	MP4B	Mx	-0.011	2.96

Member Point Loads (BLC 23 : Antenna Wi (240 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
49	MP4C	X	-19.007	1.04
50	MP4C	Z	10.974	1.04
51	MP4C	Mx	0	1.04
52	MP4C	X	-19.007	2.96
53	MP4C	Z	10.974	2.96
54	MP4C	Mx	0	2.96
55	MP3A	X	-5.775	2
56	MP3A	Z	3.334	2
57	MP3A	Mx	-0.006	2
58	MP3A	X	-5.775	2
59	MP3A	Z	3.334	2
60	MP3A	Mx	-0.006	2
61	MP3B	X	-5.775	2
62	MP3B	Z	3.334	2
63	MP3B	Mx	0.006	2
64	MP3B	X	-5.775	2
65	MP3B	Z	3.334	2
66	MP3B	Mx	0.006	2
67	MP3C	X	-8.25	1
68	MP3C	Z	4.763	1
69	MP3C	Mx	0	1
70	MP3C	X	-8.25	2
71	MP3C	Z	4.763	2
72	MP3C	Mx	0	2
73	MP3A	X	-6.456	5.5
74	MP3A	Z	3.728	5.5
75	MP3A	Mx	-0.006	5.5
76	MP3A	X	-6.456	5.5
77	MP3A	Z	3.728	5.5
78	MP3A	Mx	-0.006	5.5
79	MP3B	X	-6.456	5.5
80	MP3B	Z	3.728	5.5
81	MP3B	Mx	0.006	5.5
82	MP3B	X	-6.456	5.5
83	MP3B	Z	3.728	5.5
84	MP3B	Mx	0.006	5.5
85	MP3C	X	-8.25	5.5
86	MP3C	Z	4.763	5.5
87	MP3C	Mx	0	5.5
88	MP3C	X	-8.25	5.5
89	MP3C	Z	4.763	5.5
90	MP3C	Mx	0	5.5
91	MP2A	X	-13.924	2
92	MP2A	Z	8.039	2
93	MP2A	Mx	-0.007	2
94	MP2A	X	-13.924	2
95	MP2A	Z	8.039	2
96	MP2A	Mx	-0.007	2
97	MP1C	X	-24.21	0.53
98	MP1C	Z	13.978	0.53
99	MP1C	Mx	0	0.53
100	MP1C	X	-24.21	3.47
101	MP1C	Z	13.978	3.47
102	MP1C	Mx	0	3.47
103	MP5C	X	-24.21	0.53

Member Point Loads (BLC 23 : Antenna Wi (240 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
104	MP5C	Z	13.978	0.53
105	MP5C	Mx	0	0.53
106	MP5C	X	-24.21	3.47
107	MP5C	Z	13.978	3.47
108	MP5C	Mx	0	3.47
109	MP1A	X	-19.1	0.53
110	MP1A	Z	11.028	0.53
111	MP1A	Mx	0.022	0.53
112	MP1A	X	-19.1	3.47
113	MP1A	Z	11.028	3.47
114	MP1A	Mx	0.022	3.47
115	MP5A	X	-19.1	0.53
116	MP5A	Z	11.028	0.53
117	MP5A	Mx	0.022	0.53
118	MP5A	X	-19.1	3.47
119	MP5A	Z	11.028	3.47
120	MP5A	Mx	0.022	3.47
121	MP5B	X	-19.1	0.53
122	MP5B	Z	11.028	0.53
123	MP5B	Mx	-0.022	0.53
124	MP5B	X	-19.1	3.47
125	MP5B	Z	11.028	3.47
126	MP5B	Mx	-0.022	3.47
127	MP1B	X	-22.206	0.53
128	MP1B	Z	12.82	0.53
129	MP1B	Mx	-0.026	0.53
130	MP1B	X	-22.206	3.47
131	MP1B	Z	12.82	3.47
132	MP1B	Mx	-0.026	3.47
133	MP3C	X	-3.905	3.5
134	MP3C	Z	2.254	3.5
135	MP3C	Mx	0.002	3.5
136	MP3C	X	-3.905	3.5
137	MP3C	Z	2.254	3.5
138	MP3C	Mx	-0.002	3.5

Member Point Loads (BLC 24 : Antenna Wi (270 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-25.68	0.67
2	MP3A	Z	0	0.67
3	MP3A	Mx	0.026	0.67
4	MP3A	X	-25.68	5.33
5	MP3A	Z	0	5.33
6	MP3A	Mx	0.026	5.33
7	MP3B	X	-33.773	0.67
8	MP3B	Z	0	0.67
9	MP3B	Mx	-0.034	0.67
10	MP3B	X	-33.773	5.33
11	MP3B	Z	0	5.33
12	MP3B	Mx	-0.034	5.33
13	MP3C	X	-33.773	0.67
14	MP3C	Z	0	0.67
15	MP3C	Mx	0.000175	0.67
16	MP3C	X	-33.773	5.33
17	MP3C	Z	0	5.33

Member Point Loads (BLC 24 : Antenna Wi (270 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
18	MP3C	Mx	0.000175	5.33
19	MP3A	X	-25.68	0.67
20	MP3A	Z	0	0.67
21	MP3A	Mx	0.026	0.67
22	MP3A	X	-25.68	5.33
23	MP3A	Z	0	5.33
24	MP3A	Mx	0.026	5.33
25	MP3B	X	-33.773	0.67
26	MP3B	Z	0	0.67
27	MP3B	Mx	0.000175	0.67
28	MP3B	X	-33.773	5.33
29	MP3B	Z	0	5.33
30	MP3B	Mx	0.000175	5.33
31	MP3C	X	-33.773	0.67
32	MP3C	Z	0	0.67
33	MP3C	Mx	-0.034	0.67
34	MP3C	X	-33.773	5.33
35	MP3C	Z	0	5.33
36	MP3C	Mx	-0.034	5.33
37	MP4A	X	-9.778	1.04
38	MP4A	Z	0	1.04
39	MP4A	Mx	0.01	1.04
40	MP4A	X	-9.778	2.96
41	MP4A	Z	0	2.96
42	MP4A	Mx	0.01	2.96
43	MP4B	X	-18.905	1.04
44	MP4B	Z	0	1.04
45	MP4B	Mx	-0.009	1.04
46	MP4B	X	-18.905	2.96
47	MP4B	Z	0	2.96
48	MP4B	Mx	-0.009	2.96
49	MP4C	X	-18.905	1.04
50	MP4C	Z	0	1.04
51	MP4C	Mx	-0.009	1.04
52	MP4C	X	-18.905	2.96
53	MP4C	Z	0	2.96
54	MP4C	Mx	-0.009	2.96
55	MP3A	X	-5.716	2
56	MP3A	Z	0	2
57	MP3A	Mx	-0.006	2
58	MP3A	X	-5.716	2
59	MP3A	Z	0	2
60	MP3A	Mx	-0.006	2
61	MP3B	X	-8.573	2
62	MP3B	Z	0	2
63	MP3B	Mx	0.004	2
64	MP3B	X	-8.573	2
65	MP3B	Z	0	2
66	MP3B	Mx	0.004	2
67	MP3C	X	-8.573	1
68	MP3C	Z	0	1
69	MP3C	Mx	0.004	1
70	MP3C	X	-8.573	2
71	MP3C	Z	0	2
72	MP3C	Mx	0.004	2

Member Point Loads (BLC 24 : Antenna Wi (270 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
73	MP3A	X	-6.765	5.5
74	MP3A	Z	0	5.5
75	MP3A	Mx	-0.007	5.5
76	MP3A	X	-6.765	5.5
77	MP3A	Z	0	5.5
78	MP3A	Mx	-0.007	5.5
79	MP3B	X	-8.836	5.5
80	MP3B	Z	0	5.5
81	MP3B	Mx	0.004	5.5
82	MP3B	X	-8.836	5.5
83	MP3B	Z	0	5.5
84	MP3B	Mx	0.004	5.5
85	MP3C	X	-8.836	5.5
86	MP3C	Z	0	5.5
87	MP3C	Mx	0.004	5.5
88	MP3C	X	-8.836	5.5
89	MP3C	Z	0	5.5
90	MP3C	Mx	0.004	5.5
91	MP2A	X	-15.082	2
92	MP2A	Z	0	2
93	MP2A	Mx	-0.008	2
94	MP2A	X	-15.082	2
95	MP2A	Z	0	2
96	MP2A	Mx	-0.008	2
97	MP1C	X	-27.184	0.53
98	MP1C	Z	0	0.53
99	MP1C	Mx	-0.016	0.53
100	MP1C	X	-27.184	3.47
101	MP1C	Z	0	3.47
102	MP1C	Mx	-0.016	3.47
103	MP5C	X	-27.184	0.53
104	MP5C	Z	0	0.53
105	MP5C	Mx	-0.016	0.53
106	MP5C	X	-27.184	3.47
107	MP5C	Z	0	3.47
108	MP5C	Mx	-0.016	3.47
109	MP1A	X	-24.905	0.53
110	MP1A	Z	0	0.53
111	MP1A	Mx	0.029	0.53
112	MP1A	X	-24.905	3.47
113	MP1A	Z	0	3.47
114	MP1A	Mx	0.029	3.47
115	MP5A	X	-24.905	0.53
116	MP5A	Z	0	0.53
117	MP5A	Mx	0.029	0.53
118	MP5A	X	-24.905	3.47
119	MP5A	Z	0	3.47
120	MP5A	Mx	0.029	3.47
121	MP5B	X	-16.354	0.53
122	MP5B	Z	0	0.53
123	MP5B	Mx	-0.01	0.53
124	MP5B	X	-16.354	3.47
125	MP5B	Z	0	3.47
126	MP5B	Mx	-0.01	3.47
127	MP1B	X	-27.184	0.53

Member Point Loads (BLC 24 : Antenna Wi (270 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
128	MP1B	Z	0	0.53
129	MP1B	Mx	-0.016	0.53
130	MP1B	X	-27.184	3.47
131	MP1B	Z	0	3.47
132	MP1B	Mx	-0.016	3.47
133	MP3C	X	-6.084	3.5
134	MP3C	Z	0	3.5
135	MP3C	Mx	0.005	3.5
136	MP3C	X	-6.084	3.5
137	MP3C	Z	0	3.5
138	MP3C	Mx	0.001	3.5

Member Point Loads (BLC 25 : Antenna Wi (300 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-24.576	0.67
2	MP3A	Z	-14.189	0.67
3	MP3A	Mx	0.033	0.67
4	MP3A	X	-24.576	5.33
5	MP3A	Z	-14.189	5.33
6	MP3A	Mx	0.033	5.33
7	MP3B	X	-31.585	0.67
8	MP3B	Z	-18.236	0.67
9	MP3B	Mx	-0.021	0.67
10	MP3B	X	-31.585	5.33
11	MP3B	Z	-18.236	5.33
12	MP3B	Mx	-0.021	5.33
13	MP3C	X	-24.576	0.67
14	MP3C	Z	-14.189	0.67
15	MP3C	Mx	-0.016	0.67
16	MP3C	X	-24.576	5.33
17	MP3C	Z	-14.189	5.33
18	MP3C	Mx	-0.016	5.33
19	MP3A	X	-24.576	0.67
20	MP3A	Z	-14.189	0.67
21	MP3A	Mx	0.016	0.67
22	MP3A	X	-24.576	5.33
23	MP3A	Z	-14.189	5.33
24	MP3A	Mx	0.016	5.33
25	MP3B	X	-31.585	0.67
26	MP3B	Z	-18.236	0.67
27	MP3B	Mx	0.021	0.67
28	MP3B	X	-31.585	5.33
29	MP3B	Z	-18.236	5.33
30	MP3B	Mx	0.021	5.33
31	MP3C	X	-24.576	0.67
32	MP3C	Z	-14.189	0.67
33	MP3C	Mx	-0.033	0.67
34	MP3C	X	-24.576	5.33
35	MP3C	Z	-14.189	5.33
36	MP3C	Mx	-0.033	5.33
37	MP4A	X	-11.103	1.04
38	MP4A	Z	-6.41	1.04
39	MP4A	Mx	0.011	1.04
40	MP4A	X	-11.103	2.96
41	MP4A	Z	-6.41	2.96

Member Point Loads (BLC 25 : Antenna Wi (300 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
42	MP4A	Mx	0.011	2.96
43	MP4B	X	-19.007	1.04
44	MP4B	Z	-10.974	1.04
45	MP4B	Mx	0	1.04
46	MP4B	X	-19.007	2.96
47	MP4B	Z	-10.974	2.96
48	MP4B	Mx	0	2.96
49	MP4C	X	-11.103	1.04
50	MP4C	Z	-6.41	1.04
51	MP4C	Mx	-0.011	1.04
52	MP4C	X	-11.103	2.96
53	MP4C	Z	-6.41	2.96
54	MP4C	Mx	-0.011	2.96
55	MP3A	X	-5.775	2
56	MP3A	Z	-3.334	2
57	MP3A	Mx	-0.006	2
58	MP3A	X	-5.775	2
59	MP3A	Z	-3.334	2
60	MP3A	Mx	-0.006	2
61	MP3B	X	-8.25	2
62	MP3B	Z	-4.763	2
63	MP3B	Mx	0	2
64	MP3B	X	-8.25	2
65	MP3B	Z	-4.763	2
66	MP3B	Mx	0	2
67	MP3C	X	-5.775	1
68	MP3C	Z	-3.334	1
69	MP3C	Mx	0.006	1
70	MP3C	X	-5.775	2
71	MP3C	Z	-3.334	2
72	MP3C	Mx	0.006	2
73	MP3A	X	-6.456	5.5
74	MP3A	Z	-3.728	5.5
75	MP3A	Mx	-0.006	5.5
76	MP3A	X	-6.456	5.5
77	MP3A	Z	-3.728	5.5
78	MP3A	Mx	-0.006	5.5
79	MP3B	X	-8.25	5.5
80	MP3B	Z	-4.763	5.5
81	MP3B	Mx	0	5.5
82	MP3B	X	-8.25	5.5
83	MP3B	Z	-4.763	5.5
84	MP3B	Mx	0	5.5
85	MP3C	X	-6.456	5.5
86	MP3C	Z	-3.728	5.5
87	MP3C	Mx	0.006	5.5
88	MP3C	X	-6.456	5.5
89	MP3C	Z	-3.728	5.5
90	MP3C	Mx	0.006	5.5
91	MP2A	X	-13.924	2
92	MP2A	Z	-8.039	2
93	MP2A	Mx	-0.007	2
94	MP2A	X	-13.924	2
95	MP2A	Z	-8.039	2
96	MP2A	Mx	-0.007	2

Member Point Loads (BLC 25 : Antenna Wi (300 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
97	MP1C	X	-22.206	0.53
98	MP1C	Z	-12.82	0.53
99	MP1C	Mx	-0.026	0.53
100	MP1C	X	-22.206	3.47
101	MP1C	Z	-12.82	3.47
102	MP1C	Mx	-0.026	3.47
103	MP5C	X	-22.206	0.53
104	MP5C	Z	-12.82	0.53
105	MP5C	Mx	-0.026	0.53
106	MP5C	X	-22.206	3.47
107	MP5C	Z	-12.82	3.47
108	MP5C	Mx	-0.026	3.47
109	MP1A	X	-19.1	0.53
110	MP1A	Z	-11.028	0.53
111	MP1A	Mx	0.022	0.53
112	MP1A	X	-19.1	3.47
113	MP1A	Z	-11.028	3.47
114	MP1A	Mx	0.022	3.47
115	MP5A	X	-19.1	0.53
116	MP5A	Z	-11.028	0.53
117	MP5A	Mx	0.022	0.53
118	MP5A	X	-19.1	3.47
119	MP5A	Z	-11.028	3.47
120	MP5A	Mx	0.022	3.47
121	MP5B	X	-11.695	0.53
122	MP5B	Z	-6.752	0.53
123	MP5B	Mx	0	0.53
124	MP5B	X	-11.695	3.47
125	MP5B	Z	-6.752	3.47
126	MP5B	Mx	0	3.47
127	MP1B	X	-24.21	0.53
128	MP1B	Z	-13.978	0.53
129	MP1B	Mx	0	0.53
130	MP1B	X	-24.21	3.47
131	MP1B	Z	-13.978	3.47
132	MP1B	Mx	0	3.47
133	MP3C	X	-7.997	3.5
134	MP3C	Z	-4.617	3.5
135	MP3C	Mx	0.01	3.5
136	MP3C	X	-7.997	3.5
137	MP3C	Z	-4.617	3.5
138	MP3C	Mx	0.006	3.5

Member Point Loads (BLC 26 : Antenna Wi (330 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-16.887	0.67
2	MP3A	Z	-29.249	0.67
3	MP3A	Mx	0.034	0.67
4	MP3A	X	-16.887	5.33
5	MP3A	Z	-29.249	5.33
6	MP3A	Mx	0.034	5.33
7	MP3B	X	-16.887	0.67
8	MP3B	Z	-29.249	0.67
9	MP3B	Mx	-0.000175	0.67
10	MP3B	X	-16.887	5.33

Member Point Loads (BLC 26 : Antenna Wi (330 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
11	MP3B	Z	-29.249	5.33
12	MP3B	Mx	-0.000175	5.33
13	MP3C	X	-12.84	0.67
14	MP3C	Z	-22.239	0.67
15	MP3C	Mx	-0.026	0.67
16	MP3C	X	-12.84	5.33
17	MP3C	Z	-22.239	5.33
18	MP3C	Mx	-0.026	5.33
19	MP3A	X	-16.887	0.67
20	MP3A	Z	-29.249	0.67
21	MP3A	Mx	-0.000175	0.67
22	MP3A	X	-16.887	5.33
23	MP3A	Z	-29.249	5.33
24	MP3A	Mx	-0.000175	5.33
25	MP3B	X	-16.887	0.67
26	MP3B	Z	-29.249	0.67
27	MP3B	Mx	0.034	0.67
28	MP3B	X	-16.887	5.33
29	MP3B	Z	-29.249	5.33
30	MP3B	Mx	0.034	5.33
31	MP3C	X	-12.84	0.67
32	MP3C	Z	-22.239	0.67
33	MP3C	Mx	-0.026	0.67
34	MP3C	X	-12.84	5.33
35	MP3C	Z	-22.239	5.33
36	MP3C	Mx	-0.026	5.33
37	MP4A	X	-9.453	1.04
38	MP4A	Z	-16.373	1.04
39	MP4A	Mx	0.009	1.04
40	MP4A	X	-9.453	2.96
41	MP4A	Z	-16.373	2.96
42	MP4A	Mx	0.009	2.96
43	MP4B	X	-9.453	1.04
44	MP4B	Z	-16.373	1.04
45	MP4B	Mx	0.009	1.04
46	MP4B	X	-9.453	2.96
47	MP4B	Z	-16.373	2.96
48	MP4B	Mx	0.009	2.96
49	MP4C	X	-4.889	1.04
50	MP4C	Z	-8.468	1.04
51	MP4C	Mx	-0.01	1.04
52	MP4C	X	-4.889	2.96
53	MP4C	Z	-8.468	2.96
54	MP4C	Mx	-0.01	2.96
55	MP3A	X	-4.287	2
56	MP3A	Z	-7.425	2
57	MP3A	Mx	-0.004	2
58	MP3A	X	-4.287	2
59	MP3A	Z	-7.425	2
60	MP3A	Mx	-0.004	2
61	MP3B	X	-4.287	2
62	MP3B	Z	-7.425	2
63	MP3B	Mx	-0.004	2
64	MP3B	X	-4.287	2
65	MP3B	Z	-7.425	2

Member Point Loads (BLC 26 : Antenna Wi (330 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
66	MP3B	Mx	-0.004	2
67	MP3C	X	-2.858	1
68	MP3C	Z	-4.95	1
69	MP3C	Mx	0.006	1
70	MP3C	X	-2.858	2
71	MP3C	Z	-4.95	2
72	MP3C	Mx	0.006	2
73	MP3A	X	-4.418	5.5
74	MP3A	Z	-7.652	5.5
75	MP3A	Mx	-0.004	5.5
76	MP3A	X	-4.418	5.5
77	MP3A	Z	-7.652	5.5
78	MP3A	Mx	-0.004	5.5
79	MP3B	X	-4.418	5.5
80	MP3B	Z	-7.652	5.5
81	MP3B	Mx	-0.004	5.5
82	MP3B	X	-4.418	5.5
83	MP3B	Z	-7.652	5.5
84	MP3B	Mx	-0.004	5.5
85	MP3C	X	-3.382	5.5
86	MP3C	Z	-5.859	5.5
87	MP3C	Mx	0.007	5.5
88	MP3C	X	-3.382	5.5
89	MP3C	Z	-5.859	5.5
90	MP3C	Mx	0.007	5.5
91	MP2A	X	-9.034	2
92	MP2A	Z	-15.648	2
93	MP2A	Mx	-0.005	2
94	MP2A	X	-9.034	2
95	MP2A	Z	-15.648	2
96	MP2A	Mx	-0.005	2
97	MP1C	X	-12.435	0.53
98	MP1C	Z	-21.538	0.53
99	MP1C	Mx	-0.029	0.53
100	MP1C	X	-12.435	3.47
101	MP1C	Z	-21.538	3.47
102	MP1C	Mx	-0.029	3.47
103	MP5C	X	-12.435	0.53
104	MP5C	Z	-21.538	0.53
105	MP5C	Mx	-0.029	0.53
106	MP5C	X	-12.435	3.47
107	MP5C	Z	-21.538	3.47
108	MP5C	Mx	-0.029	3.47
109	MP1A	X	-8.177	0.53
110	MP1A	Z	-14.163	0.53
111	MP1A	Mx	0.01	0.53
112	MP1A	X	-8.177	3.47
113	MP1A	Z	-14.163	3.47
114	MP1A	Mx	0.01	3.47
115	MP5A	X	-8.177	0.53
116	MP5A	Z	-14.163	0.53
117	MP5A	Mx	0.01	0.53
118	MP5A	X	-8.177	3.47
119	MP5A	Z	-14.163	3.47
120	MP5A	Mx	0.01	3.47

Member Point Loads (BLC 26 : Antenna Wi (330 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
121	MP5B	X	-8.177	0.53
122	MP5B	Z	-14.163	0.53
123	MP5B	Mx	0.01	0.53
124	MP5B	X	-8.177	3.47
125	MP5B	Z	-14.163	3.47
126	MP5B	Mx	0.01	3.47
127	MP1B	X	-13.592	0.53
128	MP1B	Z	-23.542	0.53
129	MP1B	Mx	0.016	0.53
130	MP1B	X	-13.592	3.47
131	MP1B	Z	-23.542	3.47
132	MP1B	Mx	0.016	3.47
133	MP3C	X	-5.404	3.5
134	MP3C	Z	-9.361	3.5
135	MP3C	Mx	0.011	3.5
136	MP3C	X	-5.404	3.5
137	MP3C	Z	-9.361	3.5
138	MP3C	Mx	0.011	3.5

Member Point Loads (BLC 27 : Antenna Wm (0 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	0.67
2	MP3A	Z	-7.588	0.67
3	MP3A	Mx	0.004	0.67
4	MP3A	X	0	5.33
5	MP3A	Z	-7.588	5.33
6	MP3A	Mx	0.004	5.33
7	MP3B	X	0	0.67
8	MP3B	Z	-4.339	0.67
9	MP3B	Mx	0.002	0.67
10	MP3B	X	0	5.33
11	MP3B	Z	-4.339	5.33
12	MP3B	Mx	0.002	5.33
13	MP3C	X	0	0.67
14	MP3C	Z	-4.339	0.67
15	MP3C	Mx	-0.005	0.67
16	MP3C	X	0	5.33
17	MP3C	Z	-4.339	5.33
18	MP3C	Mx	-0.005	5.33
19	MP3A	X	0	0.67
20	MP3A	Z	-7.588	0.67
21	MP3A	Mx	-0.004	0.67
22	MP3A	X	0	5.33
23	MP3A	Z	-7.588	5.33
24	MP3A	Mx	-0.004	5.33
25	MP3B	X	0	0.67
26	MP3B	Z	-4.339	0.67
27	MP3B	Mx	0.005	0.67
28	MP3B	X	0	5.33
29	MP3B	Z	-4.339	5.33
30	MP3B	Mx	0.005	5.33
31	MP3C	X	0	0.67
32	MP3C	Z	-4.339	0.67
33	MP3C	Mx	-0.002	0.67
34	MP3C	X	0	5.33

Member Point Loads (BLC 27 : Antenna Wm (0 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
35	MP3C	Z	-4.339	5.33
36	MP3C	Mx	-0.002	5.33
37	MP4A	X	0	1.04
38	MP4A	Z	-5.478	1.04
39	MP4A	Mx	0	1.04
40	MP4A	X	0	2.96
41	MP4A	Z	-5.478	2.96
42	MP4A	Mx	0	2.96
43	MP4B	X	0	1.04
44	MP4B	Z	-2.784	1.04
45	MP4B	Mx	0.002	1.04
46	MP4B	X	0	2.96
47	MP4B	Z	-2.784	2.96
48	MP4B	Mx	0.002	2.96
49	MP4C	X	0	1.04
50	MP4C	Z	-2.784	1.04
51	MP4C	Mx	-0.002	1.04
52	MP4C	X	0	2.96
53	MP4C	Z	-2.784	2.96
54	MP4C	Mx	-0.002	2.96
55	MP3A	X	0	2
56	MP3A	Z	-2.166	2
57	MP3A	Mx	0	2
58	MP3A	X	0	2
59	MP3A	Z	-2.166	2
60	MP3A	Mx	0	2
61	MP3B	X	0	2
62	MP3B	Z	-1.432	2
63	MP3B	Mx	-0.001	2
64	MP3B	X	0	2
65	MP3B	Z	-1.432	2
66	MP3B	Mx	-0.001	2
67	MP3C	X	0	1
68	MP3C	Z	-1.432	1
69	MP3C	Mx	0.001	1
70	MP3C	X	0	2
71	MP3C	Z	-1.432	2
72	MP3C	Mx	0.001	2
73	MP3A	X	0	5.5
74	MP3A	Z	-2.166	5.5
75	MP3A	Mx	0	5.5
76	MP3A	X	0	5.5
77	MP3A	Z	-2.166	5.5
78	MP3A	Mx	0	5.5
79	MP3B	X	0	5.5
80	MP3B	Z	-1.631	5.5
81	MP3B	Mx	-0.001	5.5
82	MP3B	X	0	5.5
83	MP3B	Z	-1.631	5.5
84	MP3B	Mx	-0.001	5.5
85	MP3C	X	0	5.5
86	MP3C	Z	-1.631	5.5
87	MP3C	Mx	0.001	5.5
88	MP3C	X	0	5.5
89	MP3C	Z	-1.631	5.5

Member Point Loads (BLC 27 : Antenna Wm (0 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
90	MP3C	Mx	0.001	5.5
91	MP2A	X	0	2
92	MP2A	Z	-4.43	2
93	MP2A	Mx	0	2
94	MP2A	X	0	2
95	MP2A	Z	-4.43	2
96	MP2A	Mx	0	2
97	MP1C	X	0	0.53
98	MP1C	Z	-7.796	0.53
99	MP1C	Mx	-0.008	0.53
100	MP1C	X	0	3.47
101	MP1C	Z	-7.796	3.47
102	MP1C	Mx	-0.008	3.47
103	MP5C	X	0	0.53
104	MP5C	Z	-7.796	0.53
105	MP5C	Mx	-0.008	0.53
106	MP5C	X	0	3.47
107	MP5C	Z	-7.796	3.47
108	MP5C	Mx	-0.008	3.47
109	MP1A	X	0	0.53
110	MP1A	Z	-3.647	0.53
111	MP1A	Mx	0	0.53
112	MP1A	X	0	3.47
113	MP1A	Z	-3.647	3.47
114	MP1A	Mx	0	3.47
115	MP5A	X	0	0.53
116	MP5A	Z	-3.647	0.53
117	MP5A	Mx	0	0.53
118	MP5A	X	0	3.47
119	MP5A	Z	-3.647	3.47
120	MP5A	Mx	0	3.47
121	MP5B	X	0	0.53
122	MP5B	Z	-6.57	0.53
123	MP5B	Mx	0.007	0.53
124	MP5B	X	0	3.47
125	MP5B	Z	-6.57	3.47
126	MP5B	Mx	0.007	3.47
127	MP1B	X	0	0.53
128	MP1B	Z	-7.796	0.53
129	MP1B	Mx	0.008	0.53
130	MP1B	X	0	3.47
131	MP1B	Z	-7.796	3.47
132	MP1B	Mx	0.008	3.47
133	MP3C	X	0	3.5
134	MP3C	Z	-2.684	3.5
135	MP3C	Mx	0.002	3.5
136	MP3C	X	0	3.5
137	MP3C	Z	-2.684	3.5
138	MP3C	Mx	0.003	3.5

Member Point Loads (BLC 28 : Antenna Wm (30 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	3.252	0.67
2	MP3A	Z	-5.633	0.67
3	MP3A	Mx	3.4e-5	0.67

Member Point Loads (BLC 28 : Antenna Wm (30 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
4	MP3A	X	3.252	5.33
5	MP3A	Z	-5.633	5.33
6	MP3A	Mx	3.4e-5	5.33
7	MP3B	X	1.628	0.67
8	MP3B	Z	-2.82	0.67
9	MP3B	Mx	0.003	0.67
10	MP3B	X	1.628	5.33
11	MP3B	Z	-2.82	5.33
12	MP3B	Mx	0.003	5.33
13	MP3C	X	3.252	0.67
14	MP3C	Z	-5.633	0.67
15	MP3C	Mx	-0.007	0.67
16	MP3C	X	3.252	5.33
17	MP3C	Z	-5.633	5.33
18	MP3C	Mx	-0.007	5.33
19	MP3A	X	3.252	0.67
20	MP3A	Z	-5.633	0.67
21	MP3A	Mx	-0.007	0.67
22	MP3A	X	3.252	5.33
23	MP3A	Z	-5.633	5.33
24	MP3A	Mx	-0.007	5.33
25	MP3B	X	1.628	0.67
26	MP3B	Z	-2.82	0.67
27	MP3B	Mx	0.003	0.67
28	MP3B	X	1.628	5.33
29	MP3B	Z	-2.82	5.33
30	MP3B	Mx	0.003	5.33
31	MP3C	X	3.252	0.67
32	MP3C	Z	-5.633	0.67
33	MP3C	Mx	3.3e-5	0.67
34	MP3C	X	3.252	5.33
35	MP3C	Z	-5.633	5.33
36	MP3C	Mx	3.3e-5	5.33
37	MP4A	X	2.29	1.04
38	MP4A	Z	-3.966	1.04
39	MP4A	Mx	-0.002	1.04
40	MP4A	X	2.29	2.96
41	MP4A	Z	-3.966	2.96
42	MP4A	Mx	-0.002	2.96
43	MP4B	X	0.943	1.04
44	MP4B	Z	-1.634	1.04
45	MP4B	Mx	0.002	1.04
46	MP4B	X	0.943	2.96
47	MP4B	Z	-1.634	2.96
48	MP4B	Mx	0.002	2.96
49	MP4C	X	2.29	1.04
50	MP4C	Z	-3.966	1.04
51	MP4C	Mx	-0.002	1.04
52	MP4C	X	2.29	2.96
53	MP4C	Z	-3.966	2.96
54	MP4C	Mx	-0.002	2.96
55	MP3A	X	0.961	2
56	MP3A	Z	-1.664	2
57	MP3A	Mx	0.000961	2
58	MP3A	X	0.961	2

Member Point Loads (BLC 28 : Antenna Wm (30 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
59	MP3A	Z	-1.664	2
60	MP3A	Mx	0.000961	2
61	MP3B	X	0.594	2
62	MP3B	Z	-1.029	2
63	MP3B	Mx	-0.001	2
64	MP3B	X	0.594	2
65	MP3B	Z	-1.029	2
66	MP3B	Mx	-0.001	2
67	MP3C	X	0.961	1
68	MP3C	Z	-1.664	1
69	MP3C	Mx	0.000961	1
70	MP3C	X	0.961	2
71	MP3C	Z	-1.664	2
72	MP3C	Mx	0.000961	2
73	MP3A	X	0.994	5.5
74	MP3A	Z	-1.721	5.5
75	MP3A	Mx	0.000994	5.5
76	MP3A	X	0.994	5.5
77	MP3A	Z	-1.721	5.5
78	MP3A	Mx	0.000994	5.5
79	MP3B	X	0.727	5.5
80	MP3B	Z	-1.259	5.5
81	MP3B	Mx	-0.001	5.5
82	MP3B	X	0.727	5.5
83	MP3B	Z	-1.259	5.5
84	MP3B	Mx	-0.001	5.5
85	MP3C	X	0.994	5.5
86	MP3C	Z	-1.721	5.5
87	MP3C	Mx	0.000993	5.5
88	MP3C	X	0.994	5.5
89	MP3C	Z	-1.721	5.5
90	MP3C	Mx	0.000993	5.5
91	MP2A	X	2.082	2
92	MP2A	Z	-3.606	2
93	MP2A	Mx	0.001	2
94	MP2A	X	2.082	2
95	MP2A	Z	-3.606	2
96	MP2A	Mx	0.001	2
97	MP1C	X	4.164	0.53
98	MP1C	Z	-7.212	0.53
99	MP1C	Mx	-0.005	0.53
100	MP1C	X	4.164	3.47
101	MP1C	Z	-7.212	3.47
102	MP1C	Mx	-0.005	3.47
103	MP5C	X	4.164	0.53
104	MP5C	Z	-7.212	0.53
105	MP5C	Mx	-0.005	0.53
106	MP5C	X	4.164	3.47
107	MP5C	Z	-7.212	3.47
108	MP5C	Mx	-0.005	3.47
109	MP1A	X	2.311	0.53
110	MP1A	Z	-4.002	0.53
111	MP1A	Mx	-0.003	0.53
112	MP1A	X	2.311	3.47
113	MP1A	Z	-4.002	3.47

Member Point Loads (BLC 28 : Antenna Wm (30 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
114	MP1A	Mx	-0.003	3.47
115	MP5A	X	2.311	0.53
116	MP5A	Z	-4.002	0.53
117	MP5A	Mx	-0.003	0.53
118	MP5A	X	2.311	3.47
119	MP5A	Z	-4.002	3.47
120	MP5A	Mx	-0.003	3.47
121	MP5B	X	3.772	0.53
122	MP5B	Z	-6.534	0.53
123	MP5B	Mx	0.009	0.53
124	MP5B	X	3.772	3.47
125	MP5B	Z	-6.534	3.47
126	MP5B	Mx	0.009	3.47
127	MP1B	X	3.765	0.53
128	MP1B	Z	-6.521	0.53
129	MP1B	Mx	0.009	0.53
130	MP1B	X	3.765	3.47
131	MP1B	Z	-6.521	3.47
132	MP1B	Mx	0.009	3.47
133	MP3C	X	1.34	3.5
134	MP3C	Z	-2.321	3.5
135	MP3C	Mx	0.000566	3.5
136	MP3C	X	1.34	3.5
137	MP3C	Z	-2.321	3.5
138	MP3C	Mx	0.002	3.5

Member Point Loads (BLC 29 : Antenna Wm (60 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	3.758	0.67
2	MP3A	Z	-2.169	0.67
3	MP3A	Mx	-0.002	0.67
4	MP3A	X	3.758	5.33
5	MP3A	Z	-2.169	5.33
6	MP3A	Mx	-0.002	5.33
7	MP3B	X	3.758	0.67
8	MP3B	Z	-2.169	0.67
9	MP3B	Mx	0.005	0.67
10	MP3B	X	3.758	5.33
11	MP3B	Z	-2.169	5.33
12	MP3B	Mx	0.005	5.33
13	MP3C	X	6.571	0.67
14	MP3C	Z	-3.794	0.67
15	MP3C	Mx	-0.004	0.67
16	MP3C	X	6.571	5.33
17	MP3C	Z	-3.794	5.33
18	MP3C	Mx	-0.004	5.33
19	MP3A	X	3.758	0.67
20	MP3A	Z	-2.169	0.67
21	MP3A	Mx	-0.005	0.67
22	MP3A	X	3.758	5.33
23	MP3A	Z	-2.169	5.33
24	MP3A	Mx	-0.005	5.33
25	MP3B	X	3.758	0.67
26	MP3B	Z	-2.169	0.67
27	MP3B	Mx	0.002	0.67

Member Point Loads (BLC 29 : Antenna Wm (60 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
28	MP3B	X	3.758	5.33
29	MP3B	Z	-2.169	5.33
30	MP3B	Mx	0.002	5.33
31	MP3C	X	6.571	0.67
32	MP3C	Z	-3.794	0.67
33	MP3C	Mx	0.004	0.67
34	MP3C	X	6.571	5.33
35	MP3C	Z	-3.794	5.33
36	MP3C	Mx	0.004	5.33
37	MP4A	X	2.411	1.04
38	MP4A	Z	-1.392	1.04
39	MP4A	Mx	-0.002	1.04
40	MP4A	X	2.411	2.96
41	MP4A	Z	-1.392	2.96
42	MP4A	Mx	-0.002	2.96
43	MP4B	X	2.411	1.04
44	MP4B	Z	-1.392	1.04
45	MP4B	Mx	0.002	1.04
46	MP4B	X	2.411	2.96
47	MP4B	Z	-1.392	2.96
48	MP4B	Mx	0.002	2.96
49	MP4C	X	4.744	1.04
50	MP4C	Z	-2.739	1.04
51	MP4C	Mx	0	1.04
52	MP4C	X	4.744	2.96
53	MP4C	Z	-2.739	2.96
54	MP4C	Mx	0	2.96
55	MP3A	X	1.24	2
56	MP3A	Z	-0.716	2
57	MP3A	Mx	0.001	2
58	MP3A	X	1.24	2
59	MP3A	Z	-0.716	2
60	MP3A	Mx	0.001	2
61	MP3B	X	1.24	2
62	MP3B	Z	-0.716	2
63	MP3B	Mx	-0.001	2
64	MP3B	X	1.24	2
65	MP3B	Z	-0.716	2
66	MP3B	Mx	-0.001	2
67	MP3C	X	1.876	1
68	MP3C	Z	-1.083	1
69	MP3C	Mx	0	1
70	MP3C	X	1.876	2
71	MP3C	Z	-1.083	2
72	MP3C	Mx	0	2
73	MP3A	X	1.413	5.5
74	MP3A	Z	-0.816	5.5
75	MP3A	Mx	0.001	5.5
76	MP3A	X	1.413	5.5
77	MP3A	Z	-0.816	5.5
78	MP3A	Mx	0.001	5.5
79	MP3B	X	1.413	5.5
80	MP3B	Z	-0.816	5.5
81	MP3B	Mx	-0.001	5.5
82	MP3B	X	1.413	5.5

Member Point Loads (BLC 29 : Antenna Wm (60 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
83	MP3B	Z	-0.816	5.5
84	MP3B	Mx	-0.001	5.5
85	MP3C	X	1.876	5.5
86	MP3C	Z	-1.083	5.5
87	MP3C	Mx	0	5.5
88	MP3C	X	1.876	5.5
89	MP3C	Z	-1.083	5.5
90	MP3C	Mx	0	5.5
91	MP2A	X	3.146	2
92	MP2A	Z	-1.817	2
93	MP2A	Mx	0.002	2
94	MP2A	X	3.146	2
95	MP2A	Z	-1.817	2
96	MP2A	Mx	0.002	2
97	MP1C	X	7.443	0.53
98	MP1C	Z	-4.297	0.53
99	MP1C	Mx	0	0.53
100	MP1C	X	7.443	3.47
101	MP1C	Z	-4.297	3.47
102	MP1C	Mx	0	3.47
103	MP5C	X	7.443	0.53
104	MP5C	Z	-4.297	0.53
105	MP5C	Mx	0	0.53
106	MP5C	X	7.443	3.47
107	MP5C	Z	-4.297	3.47
108	MP5C	Mx	0	3.47
109	MP1A	X	5.69	0.53
110	MP1A	Z	-3.285	0.53
111	MP1A	Mx	-0.007	0.53
112	MP1A	X	5.69	3.47
113	MP1A	Z	-3.285	3.47
114	MP1A	Mx	-0.007	3.47
115	MP5A	X	5.69	0.53
116	MP5A	Z	-3.285	0.53
117	MP5A	Mx	-0.007	0.53
118	MP5A	X	5.69	3.47
119	MP5A	Z	-3.285	3.47
120	MP5A	Mx	-0.007	3.47
121	MP5B	X	5.69	0.53
122	MP5B	Z	-3.285	0.53
123	MP5B	Mx	0.007	0.53
124	MP5B	X	5.69	3.47
125	MP5B	Z	-3.285	3.47
126	MP5B	Mx	0.007	3.47
127	MP1B	X	6.752	0.53
128	MP1B	Z	-3.898	0.53
129	MP1B	Mx	0.008	0.53
130	MP1B	X	6.752	3.47
131	MP1B	Z	-3.898	3.47
132	MP1B	Mx	0.008	3.47
133	MP3C	X	2.319	3.5
134	MP3C	Z	-1.339	3.5
135	MP3C	Mx	-0.000892	3.5
136	MP3C	X	2.319	3.5
137	MP3C	Z	-1.339	3.5

Member Point Loads (BLC 29 : Antenna Wm (60 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
138	MP3C	Mx	0.000893	3.5

Member Point Loads (BLC 30 : Antenna Wm (90 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	3.256	0.67
2	MP3A	Z	0	0.67
3	MP3A	Mx	-0.003	0.67
4	MP3A	X	3.256	5.33
5	MP3A	Z	0	5.33
6	MP3A	Mx	-0.003	5.33
7	MP3B	X	6.505	0.67
8	MP3B	Z	0	0.67
9	MP3B	Mx	0.007	0.67
10	MP3B	X	6.505	5.33
11	MP3B	Z	0	5.33
12	MP3B	Mx	0.007	5.33
13	MP3C	X	6.505	0.67
14	MP3C	Z	0	0.67
15	MP3C	Mx	-3.4e-5	0.67
16	MP3C	X	6.505	5.33
17	MP3C	Z	0	5.33
18	MP3C	Mx	-3.4e-5	5.33
19	MP3A	X	3.256	0.67
20	MP3A	Z	0	0.67
21	MP3A	Mx	-0.003	0.67
22	MP3A	X	3.256	5.33
23	MP3A	Z	0	5.33
24	MP3A	Mx	-0.003	5.33
25	MP3B	X	6.505	0.67
26	MP3B	Z	0	0.67
27	MP3B	Mx	-3.4e-5	0.67
28	MP3B	X	6.505	5.33
29	MP3B	Z	0	5.33
30	MP3B	Mx	-3.4e-5	5.33
31	MP3C	X	6.505	0.67
32	MP3C	Z	0	0.67
33	MP3C	Mx	0.007	0.67
34	MP3C	X	6.505	5.33
35	MP3C	Z	0	5.33
36	MP3C	Mx	0.007	5.33
37	MP4A	X	1.886	1.04
38	MP4A	Z	0	1.04
39	MP4A	Mx	-0.002	1.04
40	MP4A	X	1.886	2.96
41	MP4A	Z	0	2.96
42	MP4A	Mx	-0.002	2.96
43	MP4B	X	4.58	1.04
44	MP4B	Z	0	1.04
45	MP4B	Mx	0.002	1.04
46	MP4B	X	4.58	2.96
47	MP4B	Z	0	2.96
48	MP4B	Mx	0.002	2.96
49	MP4C	X	4.58	1.04
50	MP4C	Z	0	1.04
51	MP4C	Mx	0.002	1.04

Member Point Loads (BLC 30 : Antenna Wm (90 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
52	MP4C	X	4.58	2.96
53	MP4C	Z	0	2.96
54	MP4C	Mx	0.002	2.96
55	MP3A	X	1.188	2
56	MP3A	Z	0	2
57	MP3A	Mx	0.001	2
58	MP3A	X	1.188	2
59	MP3A	Z	0	2
60	MP3A	Mx	0.001	2
61	MP3B	X	1.921	2
62	MP3B	Z	0	2
63	MP3B	Mx	-0.00096	2
64	MP3B	X	1.921	2
65	MP3B	Z	0	2
66	MP3B	Mx	-0.00096	2
67	MP3C	X	1.921	1
68	MP3C	Z	0	1
69	MP3C	Mx	-0.00096	1
70	MP3C	X	1.921	2
71	MP3C	Z	0	2
72	MP3C	Mx	-0.00096	2
73	MP3A	X	1.453	5.5
74	MP3A	Z	0	5.5
75	MP3A	Mx	0.001	5.5
76	MP3A	X	1.453	5.5
77	MP3A	Z	0	5.5
78	MP3A	Mx	0.001	5.5
79	MP3B	X	1.988	5.5
80	MP3B	Z	0	5.5
81	MP3B	Mx	-0.000994	5.5
82	MP3B	X	1.988	5.5
83	MP3B	Z	0	5.5
84	MP3B	Mx	-0.000994	5.5
85	MP3C	X	1.988	5.5
86	MP3C	Z	0	5.5
87	MP3C	Mx	-0.000994	5.5
88	MP3C	X	1.988	5.5
89	MP3C	Z	0	5.5
90	MP3C	Mx	-0.000994	5.5
91	MP2A	X	3.368	2
92	MP2A	Z	0	2
93	MP2A	Mx	0.002	2
94	MP2A	X	3.368	2
95	MP2A	Z	0	2
96	MP2A	Mx	0.002	2
97	MP1C	X	8.328	0.53
98	MP1C	Z	0	0.53
99	MP1C	Mx	0.005	0.53
100	MP1C	X	8.328	3.47
101	MP1C	Z	0	3.47
102	MP1C	Mx	0.005	3.47
103	MP5C	X	8.328	0.53
104	MP5C	Z	0	0.53
105	MP5C	Mx	0.005	0.53
106	MP5C	X	8.328	3.47

Member Point Loads (BLC 30 : Antenna Wm (90 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
107	MP5C	Z	0	3.47
108	MP5C	Mx	0.005	3.47
109	MP1A	X	7.544	0.53
110	MP1A	Z	0	0.53
111	MP1A	Mx	-0.009	0.53
112	MP1A	X	7.544	3.47
113	MP1A	Z	0	3.47
114	MP1A	Mx	-0.009	3.47
115	MP5A	X	7.544	0.53
116	MP5A	Z	0	0.53
117	MP5A	Mx	-0.009	0.53
118	MP5A	X	7.544	3.47
119	MP5A	Z	0	3.47
120	MP5A	Mx	-0.009	3.47
121	MP5B	X	4.621	0.53
122	MP5B	Z	0	0.53
123	MP5B	Mx	0.003	0.53
124	MP5B	X	4.621	3.47
125	MP5B	Z	0	3.47
126	MP5B	Mx	0.003	3.47
127	MP1B	X	8.328	0.53
128	MP1B	Z	0	0.53
129	MP1B	Mx	0.005	0.53
130	MP1B	X	8.328	3.47
131	MP1B	Z	0	3.47
132	MP1B	Mx	0.005	3.47
133	MP3C	X	2.68	3.5
134	MP3C	Z	0	3.5
135	MP3C	Mx	-0.002	3.5
136	MP3C	X	2.68	3.5
137	MP3C	Z	0	3.5
138	MP3C	Mx	-0.000566	3.5

Member Point Loads (BLC 31 : Antenna Wm (120 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	3.758	0.67
2	MP3A	Z	2.169	0.67
3	MP3A	Mx	-0.005	0.67
4	MP3A	X	3.758	5.33
5	MP3A	Z	2.169	5.33
6	MP3A	Mx	-0.005	5.33
7	MP3B	X	6.571	0.67
8	MP3B	Z	3.794	0.67
9	MP3B	Mx	0.004	0.67
10	MP3B	X	6.571	5.33
11	MP3B	Z	3.794	5.33
12	MP3B	Mx	0.004	5.33
13	MP3C	X	3.758	0.67
14	MP3C	Z	2.169	0.67
15	MP3C	Mx	0.002	0.67
16	MP3C	X	3.758	5.33
17	MP3C	Z	2.169	5.33
18	MP3C	Mx	0.002	5.33
19	MP3A	X	3.758	0.67
20	MP3A	Z	2.169	0.67

Member Point Loads (BLC 31 : Antenna Wm (120 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
21	MP3A	Mx	-0.002	0.67
22	MP3A	X	3.758	5.33
23	MP3A	Z	2.169	5.33
24	MP3A	Mx	-0.002	5.33
25	MP3B	X	6.571	0.67
26	MP3B	Z	3.794	0.67
27	MP3B	Mx	-0.004	0.67
28	MP3B	X	6.571	5.33
29	MP3B	Z	3.794	5.33
30	MP3B	Mx	-0.004	5.33
31	MP3C	X	3.758	0.67
32	MP3C	Z	2.169	0.67
33	MP3C	Mx	0.005	0.67
34	MP3C	X	3.758	5.33
35	MP3C	Z	2.169	5.33
36	MP3C	Mx	0.005	5.33
37	MP4A	X	2.411	1.04
38	MP4A	Z	1.392	1.04
39	MP4A	Mx	-0.002	1.04
40	MP4A	X	2.411	2.96
41	MP4A	Z	1.392	2.96
42	MP4A	Mx	-0.002	2.96
43	MP4B	X	4.744	1.04
44	MP4B	Z	2.739	1.04
45	MP4B	Mx	0	1.04
46	MP4B	X	4.744	2.96
47	MP4B	Z	2.739	2.96
48	MP4B	Mx	0	2.96
49	MP4C	X	2.411	1.04
50	MP4C	Z	1.392	1.04
51	MP4C	Mx	0.002	1.04
52	MP4C	X	2.411	2.96
53	MP4C	Z	1.392	2.96
54	MP4C	Mx	0.002	2.96
55	MP3A	X	1.24	2
56	MP3A	Z	0.716	2
57	MP3A	Mx	0.001	2
58	MP3A	X	1.24	2
59	MP3A	Z	0.716	2
60	MP3A	Mx	0.001	2
61	MP3B	X	1.876	2
62	MP3B	Z	1.083	2
63	MP3B	Mx	0	2
64	MP3B	X	1.876	2
65	MP3B	Z	1.083	2
66	MP3B	Mx	0	2
67	MP3C	X	1.24	1
68	MP3C	Z	0.716	1
69	MP3C	Mx	-0.001	1
70	MP3C	X	1.24	2
71	MP3C	Z	0.716	2
72	MP3C	Mx	-0.001	2
73	MP3A	X	1.413	5.5
74	MP3A	Z	0.816	5.5
75	MP3A	Mx	0.001	5.5

Member Point Loads (BLC 31 : Antenna Wm (120 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
76	MP3A	X	1.413	5.5
77	MP3A	Z	0.816	5.5
78	MP3A	Mx	0.001	5.5
79	MP3B	X	1.876	5.5
80	MP3B	Z	1.083	5.5
81	MP3B	Mx	0	5.5
82	MP3B	X	1.876	5.5
83	MP3B	Z	1.083	5.5
84	MP3B	Mx	0	5.5
85	MP3C	X	1.413	5.5
86	MP3C	Z	0.816	5.5
87	MP3C	Mx	-0.001	5.5
88	MP3C	X	1.413	5.5
89	MP3C	Z	0.816	5.5
90	MP3C	Mx	-0.001	5.5
91	MP2A	X	3.146	2
92	MP2A	Z	1.817	2
93	MP2A	Mx	0.002	2
94	MP2A	X	3.146	2
95	MP2A	Z	1.817	2
96	MP2A	Mx	0.002	2
97	MP1C	X	6.752	0.53
98	MP1C	Z	3.898	0.53
99	MP1C	Mx	0.008	0.53
100	MP1C	X	6.752	3.47
101	MP1C	Z	3.898	3.47
102	MP1C	Mx	0.008	3.47
103	MP5C	X	6.752	0.53
104	MP5C	Z	3.898	0.53
105	MP5C	Mx	0.008	0.53
106	MP5C	X	6.752	3.47
107	MP5C	Z	3.898	3.47
108	MP5C	Mx	0.008	3.47
109	MP1A	X	5.69	0.53
110	MP1A	Z	3.285	0.53
111	MP1A	Mx	-0.007	0.53
112	MP1A	X	5.69	3.47
113	MP1A	Z	3.285	3.47
114	MP1A	Mx	-0.007	3.47
115	MP5A	X	5.69	0.53
116	MP5A	Z	3.285	0.53
117	MP5A	Mx	-0.007	0.53
118	MP5A	X	5.69	3.47
119	MP5A	Z	3.285	3.47
120	MP5A	Mx	-0.007	3.47
121	MP5B	X	3.159	0.53
122	MP5B	Z	1.824	0.53
123	MP5B	Mx	0	0.53
124	MP5B	X	3.159	3.47
125	MP5B	Z	1.824	3.47
126	MP5B	Mx	0	3.47
127	MP1B	X	7.443	0.53
128	MP1B	Z	4.297	0.53
129	MP1B	Mx	0	0.53
130	MP1B	X	7.443	3.47

Member Point Loads (BLC 31 : Antenna Wm (120 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
131	MP1B	Z	4.297	3.47
132	MP1B	Mx	0	3.47
133	MP3C	X	2.325	3.5
134	MP3C	Z	1.342	3.5
135	MP3C	Mx	-0.003	3.5
136	MP3C	X	2.325	3.5
137	MP3C	Z	1.342	3.5
138	MP3C	Mx	-0.002	3.5

Member Point Loads (BLC 32 : Antenna Wm (150 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	3.252	0.67
2	MP3A	Z	5.633	0.67
3	MP3A	Mx	-0.007	0.67
4	MP3A	X	3.252	5.33
5	MP3A	Z	5.633	5.33
6	MP3A	Mx	-0.007	5.33
7	MP3B	X	3.252	0.67
8	MP3B	Z	5.633	0.67
9	MP3B	Mx	3.3e-5	0.67
10	MP3B	X	3.252	5.33
11	MP3B	Z	5.633	5.33
12	MP3B	Mx	3.3e-5	5.33
13	MP3C	X	1.628	0.67
14	MP3C	Z	2.82	0.67
15	MP3C	Mx	0.003	0.67
16	MP3C	X	1.628	5.33
17	MP3C	Z	2.82	5.33
18	MP3C	Mx	0.003	5.33
19	MP3A	X	3.252	0.67
20	MP3A	Z	5.633	0.67
21	MP3A	Mx	3.4e-5	0.67
22	MP3A	X	3.252	5.33
23	MP3A	Z	5.633	5.33
24	MP3A	Mx	3.4e-5	5.33
25	MP3B	X	3.252	0.67
26	MP3B	Z	5.633	0.67
27	MP3B	Mx	-0.007	0.67
28	MP3B	X	3.252	5.33
29	MP3B	Z	5.633	5.33
30	MP3B	Mx	-0.007	5.33
31	MP3C	X	1.628	0.67
32	MP3C	Z	2.82	0.67
33	MP3C	Mx	0.003	0.67
34	MP3C	X	1.628	5.33
35	MP3C	Z	2.82	5.33
36	MP3C	Mx	0.003	5.33
37	MP4A	X	2.29	1.04
38	MP4A	Z	3.966	1.04
39	MP4A	Mx	-0.002	1.04
40	MP4A	X	2.29	2.96
41	MP4A	Z	3.966	2.96
42	MP4A	Mx	-0.002	2.96
43	MP4B	X	2.29	1.04
44	MP4B	Z	3.966	1.04

Member Point Loads (BLC 32 : Antenna Wm (150 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
45	MP4B	Mx	-0.002	1.04
46	MP4B	X	2.29	2.96
47	MP4B	Z	3.966	2.96
48	MP4B	Mx	-0.002	2.96
49	MP4C	X	0.943	1.04
50	MP4C	Z	1.634	1.04
51	MP4C	Mx	0.002	1.04
52	MP4C	X	0.943	2.96
53	MP4C	Z	1.634	2.96
54	MP4C	Mx	0.002	2.96
55	MP3A	X	0.961	2
56	MP3A	Z	1.664	2
57	MP3A	Mx	0.000961	2
58	MP3A	X	0.961	2
59	MP3A	Z	1.664	2
60	MP3A	Mx	0.000961	2
61	MP3B	X	0.961	2
62	MP3B	Z	1.664	2
63	MP3B	Mx	0.000961	2
64	MP3B	X	0.961	2
65	MP3B	Z	1.664	2
66	MP3B	Mx	0.000961	2
67	MP3C	X	0.594	1
68	MP3C	Z	1.029	1
69	MP3C	Mx	-0.001	1
70	MP3C	X	0.594	2
71	MP3C	Z	1.029	2
72	MP3C	Mx	-0.001	2
73	MP3A	X	0.994	5.5
74	MP3A	Z	1.721	5.5
75	MP3A	Mx	0.000994	5.5
76	MP3A	X	0.994	5.5
77	MP3A	Z	1.721	5.5
78	MP3A	Mx	0.000994	5.5
79	MP3B	X	0.994	5.5
80	MP3B	Z	1.721	5.5
81	MP3B	Mx	0.000993	5.5
82	MP3B	X	0.994	5.5
83	MP3B	Z	1.721	5.5
84	MP3B	Mx	0.000993	5.5
85	MP3C	X	0.727	5.5
86	MP3C	Z	1.259	5.5
87	MP3C	Mx	-0.001	5.5
88	MP3C	X	0.727	5.5
89	MP3C	Z	1.259	5.5
90	MP3C	Mx	-0.001	5.5
91	MP2A	X	2.082	2
92	MP2A	Z	3.606	2
93	MP2A	Mx	0.001	2
94	MP2A	X	2.082	2
95	MP2A	Z	3.606	2
96	MP2A	Mx	0.001	2
97	MP1C	X	3.765	0.53
98	MP1C	Z	6.521	0.53
99	MP1C	Mx	0.009	0.53

Member Point Loads (BLC 32 : Antenna Wm (150 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
100	MP1C	X	3.765	3.47
101	MP1C	Z	6.521	3.47
102	MP1C	Mx	0.009	3.47
103	MP5C	X	3.765	0.53
104	MP5C	Z	6.521	0.53
105	MP5C	Mx	0.009	0.53
106	MP5C	X	3.765	3.47
107	MP5C	Z	6.521	3.47
108	MP5C	Mx	0.009	3.47
109	MP1A	X	2.311	0.53
110	MP1A	Z	4.002	0.53
111	MP1A	Mx	-0.003	0.53
112	MP1A	X	2.311	3.47
113	MP1A	Z	4.002	3.47
114	MP1A	Mx	-0.003	3.47
115	MP5A	X	2.311	0.53
116	MP5A	Z	4.002	0.53
117	MP5A	Mx	-0.003	0.53
118	MP5A	X	2.311	3.47
119	MP5A	Z	4.002	3.47
120	MP5A	Mx	-0.003	3.47
121	MP5B	X	2.311	0.53
122	MP5B	Z	4.002	0.53
123	MP5B	Mx	-0.003	0.53
124	MP5B	X	2.311	3.47
125	MP5B	Z	4.002	3.47
126	MP5B	Mx	-0.003	3.47
127	MP1B	X	4.164	0.53
128	MP1B	Z	7.212	0.53
129	MP1B	Mx	-0.005	0.53
130	MP1B	X	4.164	3.47
131	MP1B	Z	7.212	3.47
132	MP1B	Mx	-0.005	3.47
133	MP3C	X	1.343	3.5
134	MP3C	Z	2.326	3.5
135	MP3C	Mx	-0.003	3.5
136	MP3C	X	1.343	3.5
137	MP3C	Z	2.326	3.5
138	MP3C	Mx	-0.003	3.5

Member Point Loads (BLC 33 : Antenna Wm (180 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	0.67
2	MP3A	Z	7.588	0.67
3	MP3A	Mx	-0.004	0.67
4	MP3A	X	0	5.33
5	MP3A	Z	7.588	5.33
6	MP3A	Mx	-0.004	5.33
7	MP3B	X	0	0.67
8	MP3B	Z	4.339	0.67
9	MP3B	Mx	-0.002	0.67
10	MP3B	X	0	5.33
11	MP3B	Z	4.339	5.33
12	MP3B	Mx	-0.002	5.33
13	MP3C	X	0	0.67

Member Point Loads (BLC 33 : Antenna Wm (180 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
14	MP3C	Z	4.339	0.67
15	MP3C	Mx	0.005	0.67
16	MP3C	X	0	5.33
17	MP3C	Z	4.339	5.33
18	MP3C	Mx	0.005	5.33
19	MP3A	X	0	0.67
20	MP3A	Z	7.588	0.67
21	MP3A	Mx	0.004	0.67
22	MP3A	X	0	5.33
23	MP3A	Z	7.588	5.33
24	MP3A	Mx	0.004	5.33
25	MP3B	X	0	0.67
26	MP3B	Z	4.339	0.67
27	MP3B	Mx	-0.005	0.67
28	MP3B	X	0	5.33
29	MP3B	Z	4.339	5.33
30	MP3B	Mx	-0.005	5.33
31	MP3C	X	0	0.67
32	MP3C	Z	4.339	0.67
33	MP3C	Mx	0.002	0.67
34	MP3C	X	0	5.33
35	MP3C	Z	4.339	5.33
36	MP3C	Mx	0.002	5.33
37	MP4A	X	0	1.04
38	MP4A	Z	5.478	1.04
39	MP4A	Mx	0	1.04
40	MP4A	X	0	2.96
41	MP4A	Z	5.478	2.96
42	MP4A	Mx	0	2.96
43	MP4B	X	0	1.04
44	MP4B	Z	2.784	1.04
45	MP4B	Mx	-0.002	1.04
46	MP4B	X	0	2.96
47	MP4B	Z	2.784	2.96
48	MP4B	Mx	-0.002	2.96
49	MP4C	X	0	1.04
50	MP4C	Z	2.784	1.04
51	MP4C	Mx	0.002	1.04
52	MP4C	X	0	2.96
53	MP4C	Z	2.784	2.96
54	MP4C	Mx	0.002	2.96
55	MP3A	X	0	2
56	MP3A	Z	2.166	2
57	MP3A	Mx	0	2
58	MP3A	X	0	2
59	MP3A	Z	2.166	2
60	MP3A	Mx	0	2
61	MP3B	X	0	2
62	MP3B	Z	1.432	2
63	MP3B	Mx	0.001	2
64	MP3B	X	0	2
65	MP3B	Z	1.432	2
66	MP3B	Mx	0.001	2
67	MP3C	X	0	1
68	MP3C	Z	1.432	1

Member Point Loads (BLC 33 : Antenna Wm (180 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
69	MP3C	Mx	-0.001	1
70	MP3C	X	0	2
71	MP3C	Z	1.432	2
72	MP3C	Mx	-0.001	2
73	MP3A	X	0	5.5
74	MP3A	Z	2.166	5.5
75	MP3A	Mx	0	5.5
76	MP3A	X	0	5.5
77	MP3A	Z	2.166	5.5
78	MP3A	Mx	0	5.5
79	MP3B	X	0	5.5
80	MP3B	Z	1.631	5.5
81	MP3B	Mx	0.001	5.5
82	MP3B	X	0	5.5
83	MP3B	Z	1.631	5.5
84	MP3B	Mx	0.001	5.5
85	MP3C	X	0	5.5
86	MP3C	Z	1.631	5.5
87	MP3C	Mx	-0.001	5.5
88	MP3C	X	0	5.5
89	MP3C	Z	1.631	5.5
90	MP3C	Mx	-0.001	5.5
91	MP2A	X	0	2
92	MP2A	Z	4.43	2
93	MP2A	Mx	0	2
94	MP2A	X	0	2
95	MP2A	Z	4.43	2
96	MP2A	Mx	0	2
97	MP1C	X	0	0.53
98	MP1C	Z	7.796	0.53
99	MP1C	Mx	0.008	0.53
100	MP1C	X	0	3.47
101	MP1C	Z	7.796	3.47
102	MP1C	Mx	0.008	3.47
103	MP5C	X	0	0.53
104	MP5C	Z	7.796	0.53
105	MP5C	Mx	0.008	0.53
106	MP5C	X	0	3.47
107	MP5C	Z	7.796	3.47
108	MP5C	Mx	0.008	3.47
109	MP1A	X	0	0.53
110	MP1A	Z	3.647	0.53
111	MP1A	Mx	0	0.53
112	MP1A	X	0	3.47
113	MP1A	Z	3.647	3.47
114	MP1A	Mx	0	3.47
115	MP5A	X	0	0.53
116	MP5A	Z	3.647	0.53
117	MP5A	Mx	0	0.53
118	MP5A	X	0	3.47
119	MP5A	Z	3.647	3.47
120	MP5A	Mx	0	3.47
121	MP5B	X	0	0.53
122	MP5B	Z	6.57	0.53
123	MP5B	Mx	-0.007	0.53

Member Point Loads (BLC 33 : Antenna Wm (180 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
124	MP5B	X	0	3.47
125	MP5B	Z	6.57	3.47
126	MP5B	Mx	-0.007	3.47
127	MP1B	X	0	0.53
128	MP1B	Z	7.796	0.53
129	MP1B	Mx	-0.008	0.53
130	MP1B	X	0	3.47
131	MP1B	Z	7.796	3.47
132	MP1B	Mx	-0.008	3.47
133	MP3C	X	0	3.5
134	MP3C	Z	2.684	3.5
135	MP3C	Mx	-0.002	3.5
136	MP3C	X	0	3.5
137	MP3C	Z	2.684	3.5
138	MP3C	Mx	-0.003	3.5

Member Point Loads (BLC 34 : Antenna Wm (210 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-3.252	0.67
2	MP3A	Z	5.633	0.67
3	MP3A	Mx	-3.4e-5	0.67
4	MP3A	X	-3.252	5.33
5	MP3A	Z	5.633	5.33
6	MP3A	Mx	-3.4e-5	5.33
7	MP3B	X	-1.628	0.67
8	MP3B	Z	2.82	0.67
9	MP3B	Mx	-0.003	0.67
10	MP3B	X	-1.628	5.33
11	MP3B	Z	2.82	5.33
12	MP3B	Mx	-0.003	5.33
13	MP3C	X	-3.252	0.67
14	MP3C	Z	5.633	0.67
15	MP3C	Mx	0.007	0.67
16	MP3C	X	-3.252	5.33
17	MP3C	Z	5.633	5.33
18	MP3C	Mx	0.007	5.33
19	MP3A	X	-3.252	0.67
20	MP3A	Z	5.633	0.67
21	MP3A	Mx	0.007	0.67
22	MP3A	X	-3.252	5.33
23	MP3A	Z	5.633	5.33
24	MP3A	Mx	0.007	5.33
25	MP3B	X	-1.628	0.67
26	MP3B	Z	2.82	0.67
27	MP3B	Mx	-0.003	0.67
28	MP3B	X	-1.628	5.33
29	MP3B	Z	2.82	5.33
30	MP3B	Mx	-0.003	5.33
31	MP3C	X	-3.252	0.67
32	MP3C	Z	5.633	0.67
33	MP3C	Mx	-3.3e-5	0.67
34	MP3C	X	-3.252	5.33
35	MP3C	Z	5.633	5.33
36	MP3C	Mx	-3.3e-5	5.33
37	MP4A	X	-2.29	1.04

Member Point Loads (BLC 34 : Antenna Wm (210 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
38	MP4A	Z	3.966	1.04
39	MP4A	Mx	0.002	1.04
40	MP4A	X	-2.29	2.96
41	MP4A	Z	3.966	2.96
42	MP4A	Mx	0.002	2.96
43	MP4B	X	-0.943	1.04
44	MP4B	Z	1.634	1.04
45	MP4B	Mx	-0.002	1.04
46	MP4B	X	-0.943	2.96
47	MP4B	Z	1.634	2.96
48	MP4B	Mx	-0.002	2.96
49	MP4C	X	-2.29	1.04
50	MP4C	Z	3.966	1.04
51	MP4C	Mx	0.002	1.04
52	MP4C	X	-2.29	2.96
53	MP4C	Z	3.966	2.96
54	MP4C	Mx	0.002	2.96
55	MP3A	X	-0.961	2
56	MP3A	Z	1.664	2
57	MP3A	Mx	-0.000961	2
58	MP3A	X	-0.961	2
59	MP3A	Z	1.664	2
60	MP3A	Mx	-0.000961	2
61	MP3B	X	-0.594	2
62	MP3B	Z	1.029	2
63	MP3B	Mx	0.001	2
64	MP3B	X	-0.594	2
65	MP3B	Z	1.029	2
66	MP3B	Mx	0.001	2
67	MP3C	X	-0.961	1
68	MP3C	Z	1.664	1
69	MP3C	Mx	-0.000961	1
70	MP3C	X	-0.961	2
71	MP3C	Z	1.664	2
72	MP3C	Mx	-0.000961	2
73	MP3A	X	-0.994	5.5
74	MP3A	Z	1.721	5.5
75	MP3A	Mx	-0.000994	5.5
76	MP3A	X	-0.994	5.5
77	MP3A	Z	1.721	5.5
78	MP3A	Mx	-0.000994	5.5
79	MP3B	X	-0.727	5.5
80	MP3B	Z	1.259	5.5
81	MP3B	Mx	0.001	5.5
82	MP3B	X	-0.727	5.5
83	MP3B	Z	1.259	5.5
84	MP3B	Mx	0.001	5.5
85	MP3C	X	-0.994	5.5
86	MP3C	Z	1.721	5.5
87	MP3C	Mx	-0.000993	5.5
88	MP3C	X	-0.994	5.5
89	MP3C	Z	1.721	5.5
90	MP3C	Mx	-0.000993	5.5
91	MP2A	X	-2.082	2
92	MP2A	Z	3.606	2

Member Point Loads (BLC 34 : Antenna Wm (210 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
93	MP2A	Mx	-0.001	2
94	MP2A	X	-2.082	2
95	MP2A	Z	3.606	2
96	MP2A	Mx	-0.001	2
97	MP1C	X	-4.164	0.53
98	MP1C	Z	7.212	0.53
99	MP1C	Mx	0.005	0.53
100	MP1C	X	-4.164	3.47
101	MP1C	Z	7.212	3.47
102	MP1C	Mx	0.005	3.47
103	MP5C	X	-4.164	0.53
104	MP5C	Z	7.212	0.53
105	MP5C	Mx	0.005	0.53
106	MP5C	X	-4.164	3.47
107	MP5C	Z	7.212	3.47
108	MP5C	Mx	0.005	3.47
109	MP1A	X	-2.311	0.53
110	MP1A	Z	4.002	0.53
111	MP1A	Mx	0.003	0.53
112	MP1A	X	-2.311	3.47
113	MP1A	Z	4.002	3.47
114	MP1A	Mx	0.003	3.47
115	MP5A	X	-2.311	0.53
116	MP5A	Z	4.002	0.53
117	MP5A	Mx	0.003	0.53
118	MP5A	X	-2.311	3.47
119	MP5A	Z	4.002	3.47
120	MP5A	Mx	0.003	3.47
121	MP5B	X	-3.772	0.53
122	MP5B	Z	6.534	0.53
123	MP5B	Mx	-0.009	0.53
124	MP5B	X	-3.772	3.47
125	MP5B	Z	6.534	3.47
126	MP5B	Mx	-0.009	3.47
127	MP1B	X	-3.765	0.53
128	MP1B	Z	6.521	0.53
129	MP1B	Mx	-0.009	0.53
130	MP1B	X	-3.765	3.47
131	MP1B	Z	6.521	3.47
132	MP1B	Mx	-0.009	3.47
133	MP3C	X	-1.34	3.5
134	MP3C	Z	2.321	3.5
135	MP3C	Mx	-0.000566	3.5
136	MP3C	X	-1.34	3.5
137	MP3C	Z	2.321	3.5
138	MP3C	Mx	-0.002	3.5

Member Point Loads (BLC 35 : Antenna Wm (240 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-3.758	0.67
2	MP3A	Z	2.169	0.67
3	MP3A	Mx	0.002	0.67
4	MP3A	X	-3.758	5.33
5	MP3A	Z	2.169	5.33
6	MP3A	Mx	0.002	5.33

Member Point Loads (BLC 35 : Antenna Wm (240 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
7	MP3B	X	-3.758	0.67
8	MP3B	Z	2.169	0.67
9	MP3B	Mx	-0.005	0.67
10	MP3B	X	-3.758	5.33
11	MP3B	Z	2.169	5.33
12	MP3B	Mx	-0.005	5.33
13	MP3C	X	-6.571	0.67
14	MP3C	Z	3.794	0.67
15	MP3C	Mx	0.004	0.67
16	MP3C	X	-6.571	5.33
17	MP3C	Z	3.794	5.33
18	MP3C	Mx	0.004	5.33
19	MP3A	X	-3.758	0.67
20	MP3A	Z	2.169	0.67
21	MP3A	Mx	0.005	0.67
22	MP3A	X	-3.758	5.33
23	MP3A	Z	2.169	5.33
24	MP3A	Mx	0.005	5.33
25	MP3B	X	-3.758	0.67
26	MP3B	Z	2.169	0.67
27	MP3B	Mx	-0.002	0.67
28	MP3B	X	-3.758	5.33
29	MP3B	Z	2.169	5.33
30	MP3B	Mx	-0.002	5.33
31	MP3C	X	-6.571	0.67
32	MP3C	Z	3.794	0.67
33	MP3C	Mx	-0.004	0.67
34	MP3C	X	-6.571	5.33
35	MP3C	Z	3.794	5.33
36	MP3C	Mx	-0.004	5.33
37	MP4A	X	-2.411	1.04
38	MP4A	Z	1.392	1.04
39	MP4A	Mx	0.002	1.04
40	MP4A	X	-2.411	2.96
41	MP4A	Z	1.392	2.96
42	MP4A	Mx	0.002	2.96
43	MP4B	X	-2.411	1.04
44	MP4B	Z	1.392	1.04
45	MP4B	Mx	-0.002	1.04
46	MP4B	X	-2.411	2.96
47	MP4B	Z	1.392	2.96
48	MP4B	Mx	-0.002	2.96
49	MP4C	X	-4.744	1.04
50	MP4C	Z	2.739	1.04
51	MP4C	Mx	0	1.04
52	MP4C	X	-4.744	2.96
53	MP4C	Z	2.739	2.96
54	MP4C	Mx	0	2.96
55	MP3A	X	-1.24	2
56	MP3A	Z	0.716	2
57	MP3A	Mx	-0.001	2
58	MP3A	X	-1.24	2
59	MP3A	Z	0.716	2
60	MP3A	Mx	-0.001	2
61	MP3B	X	-1.24	2

Member Point Loads (BLC 35 : Antenna Wm (240 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
62	MP3B	Z	0.716	2
63	MP3B	Mx	0.001	2
64	MP3B	X	-1.24	2
65	MP3B	Z	0.716	2
66	MP3B	Mx	0.001	2
67	MP3C	X	-1.876	1
68	MP3C	Z	1.083	1
69	MP3C	Mx	0	1
70	MP3C	X	-1.876	2
71	MP3C	Z	1.083	2
72	MP3C	Mx	0	2
73	MP3A	X	-1.413	5.5
74	MP3A	Z	0.816	5.5
75	MP3A	Mx	-0.001	5.5
76	MP3A	X	-1.413	5.5
77	MP3A	Z	0.816	5.5
78	MP3A	Mx	-0.001	5.5
79	MP3B	X	-1.413	5.5
80	MP3B	Z	0.816	5.5
81	MP3B	Mx	0.001	5.5
82	MP3B	X	-1.413	5.5
83	MP3B	Z	0.816	5.5
84	MP3B	Mx	0.001	5.5
85	MP3C	X	-1.876	5.5
86	MP3C	Z	1.083	5.5
87	MP3C	Mx	0	5.5
88	MP3C	X	-1.876	5.5
89	MP3C	Z	1.083	5.5
90	MP3C	Mx	0	5.5
91	MP2A	X	-3.146	2
92	MP2A	Z	1.817	2
93	MP2A	Mx	-0.002	2
94	MP2A	X	-3.146	2
95	MP2A	Z	1.817	2
96	MP2A	Mx	-0.002	2
97	MP1C	X	-7.443	0.53
98	MP1C	Z	4.297	0.53
99	MP1C	Mx	0	0.53
100	MP1C	X	-7.443	3.47
101	MP1C	Z	4.297	3.47
102	MP1C	Mx	0	3.47
103	MP5C	X	-7.443	0.53
104	MP5C	Z	4.297	0.53
105	MP5C	Mx	0	0.53
106	MP5C	X	-7.443	3.47
107	MP5C	Z	4.297	3.47
108	MP5C	Mx	0	3.47
109	MP1A	X	-5.69	0.53
110	MP1A	Z	3.285	0.53
111	MP1A	Mx	0.007	0.53
112	MP1A	X	-5.69	3.47
113	MP1A	Z	3.285	3.47
114	MP1A	Mx	0.007	3.47
115	MP5A	X	-5.69	0.53
116	MP5A	Z	3.285	0.53

Member Point Loads (BLC 35 : Antenna Wm (240 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
117	MP5A	Mx	0.007	0.53
118	MP5A	X	-5.69	3.47
119	MP5A	Z	3.285	3.47
120	MP5A	Mx	0.007	3.47
121	MP5B	X	-5.69	0.53
122	MP5B	Z	3.285	0.53
123	MP5B	Mx	-0.007	0.53
124	MP5B	X	-5.69	3.47
125	MP5B	Z	3.285	3.47
126	MP5B	Mx	-0.007	3.47
127	MP1B	X	-6.752	0.53
128	MP1B	Z	3.898	0.53
129	MP1B	Mx	-0.008	0.53
130	MP1B	X	-6.752	3.47
131	MP1B	Z	3.898	3.47
132	MP1B	Mx	-0.008	3.47
133	MP3C	X	-2.319	3.5
134	MP3C	Z	1.339	3.5
135	MP3C	Mx	0.000892	3.5
136	MP3C	X	-2.319	3.5
137	MP3C	Z	1.339	3.5
138	MP3C	Mx	-0.000893	3.5

Member Point Loads (BLC 36 : Antenna Wm (270 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-3.256	0.67
2	MP3A	Z	0	0.67
3	MP3A	Mx	0.003	0.67
4	MP3A	X	-3.256	5.33
5	MP3A	Z	0	5.33
6	MP3A	Mx	0.003	5.33
7	MP3B	X	-6.505	0.67
8	MP3B	Z	0	0.67
9	MP3B	Mx	-0.007	0.67
10	MP3B	X	-6.505	5.33
11	MP3B	Z	0	5.33
12	MP3B	Mx	-0.007	5.33
13	MP3C	X	-6.505	0.67
14	MP3C	Z	0	0.67
15	MP3C	Mx	3.4e-5	0.67
16	MP3C	X	-6.505	5.33
17	MP3C	Z	0	5.33
18	MP3C	Mx	3.4e-5	5.33
19	MP3A	X	-3.256	0.67
20	MP3A	Z	0	0.67
21	MP3A	Mx	0.003	0.67
22	MP3A	X	-3.256	5.33
23	MP3A	Z	0	5.33
24	MP3A	Mx	0.003	5.33
25	MP3B	X	-6.505	0.67
26	MP3B	Z	0	0.67
27	MP3B	Mx	3.4e-5	0.67
28	MP3B	X	-6.505	5.33
29	MP3B	Z	0	5.33
30	MP3B	Mx	3.4e-5	5.33

Member Point Loads (BLC 36 : Antenna Wm (270 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
31	MP3C	X	-6.505	0.67
32	MP3C	Z	0	0.67
33	MP3C	Mx	-0.007	0.67
34	MP3C	X	-6.505	5.33
35	MP3C	Z	0	5.33
36	MP3C	Mx	-0.007	5.33
37	MP4A	X	-1.886	1.04
38	MP4A	Z	0	1.04
39	MP4A	Mx	0.002	1.04
40	MP4A	X	-1.886	2.96
41	MP4A	Z	0	2.96
42	MP4A	Mx	0.002	2.96
43	MP4B	X	-4.58	1.04
44	MP4B	Z	0	1.04
45	MP4B	Mx	-0.002	1.04
46	MP4B	X	-4.58	2.96
47	MP4B	Z	0	2.96
48	MP4B	Mx	-0.002	2.96
49	MP4C	X	-4.58	1.04
50	MP4C	Z	0	1.04
51	MP4C	Mx	-0.002	1.04
52	MP4C	X	-4.58	2.96
53	MP4C	Z	0	2.96
54	MP4C	Mx	-0.002	2.96
55	MP3A	X	-1.188	2
56	MP3A	Z	0	2
57	MP3A	Mx	-0.001	2
58	MP3A	X	-1.188	2
59	MP3A	Z	0	2
60	MP3A	Mx	-0.001	2
61	MP3B	X	-1.921	2
62	MP3B	Z	0	2
63	MP3B	Mx	0.00096	2
64	MP3B	X	-1.921	2
65	MP3B	Z	0	2
66	MP3B	Mx	0.00096	2
67	MP3C	X	-1.921	1
68	MP3C	Z	0	1
69	MP3C	Mx	0.00096	1
70	MP3C	X	-1.921	2
71	MP3C	Z	0	2
72	MP3C	Mx	0.00096	2
73	MP3A	X	-1.453	5.5
74	MP3A	Z	0	5.5
75	MP3A	Mx	-0.001	5.5
76	MP3A	X	-1.453	5.5
77	MP3A	Z	0	5.5
78	MP3A	Mx	-0.001	5.5
79	MP3B	X	-1.988	5.5
80	MP3B	Z	0	5.5
81	MP3B	Mx	0.000994	5.5
82	MP3B	X	-1.988	5.5
83	MP3B	Z	0	5.5
84	MP3B	Mx	0.000994	5.5
85	MP3C	X	-1.988	5.5

Member Point Loads (BLC 36 : Antenna Wm (270 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
86	MP3C	Z	0	5.5
87	MP3C	Mx	0.000994	5.5
88	MP3C	X	-1.988	5.5
89	MP3C	Z	0	5.5
90	MP3C	Mx	0.000994	5.5
91	MP2A	X	-3.368	2
92	MP2A	Z	0	2
93	MP2A	Mx	-0.002	2
94	MP2A	X	-3.368	2
95	MP2A	Z	0	2
96	MP2A	Mx	-0.002	2
97	MP1C	X	-8.328	0.53
98	MP1C	Z	0	0.53
99	MP1C	Mx	-0.005	0.53
100	MP1C	X	-8.328	3.47
101	MP1C	Z	0	3.47
102	MP1C	Mx	-0.005	3.47
103	MP5C	X	-8.328	0.53
104	MP5C	Z	0	0.53
105	MP5C	Mx	-0.005	0.53
106	MP5C	X	-8.328	3.47
107	MP5C	Z	0	3.47
108	MP5C	Mx	-0.005	3.47
109	MP1A	X	-7.544	0.53
110	MP1A	Z	0	0.53
111	MP1A	Mx	0.009	0.53
112	MP1A	X	-7.544	3.47
113	MP1A	Z	0	3.47
114	MP1A	Mx	0.009	3.47
115	MP5A	X	-7.544	0.53
116	MP5A	Z	0	0.53
117	MP5A	Mx	0.009	0.53
118	MP5A	X	-7.544	3.47
119	MP5A	Z	0	3.47
120	MP5A	Mx	0.009	3.47
121	MP5B	X	-4.621	0.53
122	MP5B	Z	0	0.53
123	MP5B	Mx	-0.003	0.53
124	MP5B	X	-4.621	3.47
125	MP5B	Z	0	3.47
126	MP5B	Mx	-0.003	3.47
127	MP1B	X	-8.328	0.53
128	MP1B	Z	0	0.53
129	MP1B	Mx	-0.005	0.53
130	MP1B	X	-8.328	3.47
131	MP1B	Z	0	3.47
132	MP1B	Mx	-0.005	3.47
133	MP3C	X	-2.68	3.5
134	MP3C	Z	0	3.5
135	MP3C	Mx	0.002	3.5
136	MP3C	X	-2.68	3.5
137	MP3C	Z	0	3.5
138	MP3C	Mx	0.000566	3.5

Member Point Loads (BLC 37 : Antenna Wm (300 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-3.758	0.67
2	MP3A	Z	-2.169	0.67
3	MP3A	Mx	0.005	0.67
4	MP3A	X	-3.758	5.33
5	MP3A	Z	-2.169	5.33
6	MP3A	Mx	0.005	5.33
7	MP3B	X	-6.571	0.67
8	MP3B	Z	-3.794	0.67
9	MP3B	Mx	-0.004	0.67
10	MP3B	X	-6.571	5.33
11	MP3B	Z	-3.794	5.33
12	MP3B	Mx	-0.004	5.33
13	MP3C	X	-3.758	0.67
14	MP3C	Z	-2.169	0.67
15	MP3C	Mx	-0.002	0.67
16	MP3C	X	-3.758	5.33
17	MP3C	Z	-2.169	5.33
18	MP3C	Mx	-0.002	5.33
19	MP3A	X	-3.758	0.67
20	MP3A	Z	-2.169	0.67
21	MP3A	Mx	0.002	0.67
22	MP3A	X	-3.758	5.33
23	MP3A	Z	-2.169	5.33
24	MP3A	Mx	0.002	5.33
25	MP3B	X	-6.571	0.67
26	MP3B	Z	-3.794	0.67
27	MP3B	Mx	0.004	0.67
28	MP3B	X	-6.571	5.33
29	MP3B	Z	-3.794	5.33
30	MP3B	Mx	0.004	5.33
31	MP3C	X	-3.758	0.67
32	MP3C	Z	-2.169	0.67
33	MP3C	Mx	-0.005	0.67
34	MP3C	X	-3.758	5.33
35	MP3C	Z	-2.169	5.33
36	MP3C	Mx	-0.005	5.33
37	MP4A	X	-2.411	1.04
38	MP4A	Z	-1.392	1.04
39	MP4A	Mx	0.002	1.04
40	MP4A	X	-2.411	2.96
41	MP4A	Z	-1.392	2.96
42	MP4A	Mx	0.002	2.96
43	MP4B	X	-4.744	1.04
44	MP4B	Z	-2.739	1.04
45	MP4B	Mx	0	1.04
46	MP4B	X	-4.744	2.96
47	MP4B	Z	-2.739	2.96
48	MP4B	Mx	0	2.96
49	MP4C	X	-2.411	1.04
50	MP4C	Z	-1.392	1.04
51	MP4C	Mx	-0.002	1.04
52	MP4C	X	-2.411	2.96
53	MP4C	Z	-1.392	2.96
54	MP4C	Mx	-0.002	2.96
55	MP3A	X	-1.24	2

Member Point Loads (BLC 37 : Antenna Wm (300 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP3A	Z	-0.716	2
57	MP3A	Mx	-0.001	2
58	MP3A	X	-1.24	2
59	MP3A	Z	-0.716	2
60	MP3A	Mx	-0.001	2
61	MP3B	X	-1.876	2
62	MP3B	Z	-1.083	2
63	MP3B	Mx	0	2
64	MP3B	X	-1.876	2
65	MP3B	Z	-1.083	2
66	MP3B	Mx	0	2
67	MP3C	X	-1.24	1
68	MP3C	Z	-0.716	1
69	MP3C	Mx	0.001	1
70	MP3C	X	-1.24	2
71	MP3C	Z	-0.716	2
72	MP3C	Mx	0.001	2
73	MP3A	X	-1.413	5.5
74	MP3A	Z	-0.816	5.5
75	MP3A	Mx	-0.001	5.5
76	MP3A	X	-1.413	5.5
77	MP3A	Z	-0.816	5.5
78	MP3A	Mx	-0.001	5.5
79	MP3B	X	-1.876	5.5
80	MP3B	Z	-1.083	5.5
81	MP3B	Mx	0	5.5
82	MP3B	X	-1.876	5.5
83	MP3B	Z	-1.083	5.5
84	MP3B	Mx	0	5.5
85	MP3C	X	-1.413	5.5
86	MP3C	Z	-0.816	5.5
87	MP3C	Mx	0.001	5.5
88	MP3C	X	-1.413	5.5
89	MP3C	Z	-0.816	5.5
90	MP3C	Mx	0.001	5.5
91	MP2A	X	-3.146	2
92	MP2A	Z	-1.817	2
93	MP2A	Mx	-0.002	2
94	MP2A	X	-3.146	2
95	MP2A	Z	-1.817	2
96	MP2A	Mx	-0.002	2
97	MP1C	X	-6.752	0.53
98	MP1C	Z	-3.898	0.53
99	MP1C	Mx	-0.008	0.53
100	MP1C	X	-6.752	3.47
101	MP1C	Z	-3.898	3.47
102	MP1C	Mx	-0.008	3.47
103	MP5C	X	-6.752	0.53
104	MP5C	Z	-3.898	0.53
105	MP5C	Mx	-0.008	0.53
106	MP5C	X	-6.752	3.47
107	MP5C	Z	-3.898	3.47
108	MP5C	Mx	-0.008	3.47
109	MP1A	X	-5.69	0.53
110	MP1A	Z	-3.285	0.53

Member Point Loads (BLC 37 : Antenna Wm (300 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
111	MP1A	Mx	0.007	0.53
112	MP1A	X	-5.69	3.47
113	MP1A	Z	-3.285	3.47
114	MP1A	Mx	0.007	3.47
115	MP5A	X	-5.69	0.53
116	MP5A	Z	-3.285	0.53
117	MP5A	Mx	0.007	0.53
118	MP5A	X	-5.69	3.47
119	MP5A	Z	-3.285	3.47
120	MP5A	Mx	0.007	3.47
121	MP5B	X	-3.159	0.53
122	MP5B	Z	-1.824	0.53
123	MP5B	Mx	0	0.53
124	MP5B	X	-3.159	3.47
125	MP5B	Z	-1.824	3.47
126	MP5B	Mx	0	3.47
127	MP1B	X	-7.443	0.53
128	MP1B	Z	-4.297	0.53
129	MP1B	Mx	0	0.53
130	MP1B	X	-7.443	3.47
131	MP1B	Z	-4.297	3.47
132	MP1B	Mx	0	3.47
133	MP3C	X	-2.325	3.5
134	MP3C	Z	-1.342	3.5
135	MP3C	Mx	0.003	3.5
136	MP3C	X	-2.325	3.5
137	MP3C	Z	-1.342	3.5
138	MP3C	Mx	0.002	3.5

Member Point Loads (BLC 38 : Antenna Wm (330 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-3.252	0.67
2	MP3A	Z	-5.633	0.67
3	MP3A	Mx	0.007	0.67
4	MP3A	X	-3.252	5.33
5	MP3A	Z	-5.633	5.33
6	MP3A	Mx	0.007	5.33
7	MP3B	X	-3.252	0.67
8	MP3B	Z	-5.633	0.67
9	MP3B	Mx	-3.3e-5	0.67
10	MP3B	X	-3.252	5.33
11	MP3B	Z	-5.633	5.33
12	MP3B	Mx	-3.3e-5	5.33
13	MP3C	X	-1.628	0.67
14	MP3C	Z	-2.82	0.67
15	MP3C	Mx	-0.003	0.67
16	MP3C	X	-1.628	5.33
17	MP3C	Z	-2.82	5.33
18	MP3C	Mx	-0.003	5.33
19	MP3A	X	-3.252	0.67
20	MP3A	Z	-5.633	0.67
21	MP3A	Mx	-3.4e-5	0.67
22	MP3A	X	-3.252	5.33
23	MP3A	Z	-5.633	5.33
24	MP3A	Mx	-3.4e-5	5.33

Member Point Loads (BLC 38 : Antenna Wm (330 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
25	MP3B	X	-3.252	0.67
26	MP3B	Z	-5.633	0.67
27	MP3B	Mx	0.007	0.67
28	MP3B	X	-3.252	5.33
29	MP3B	Z	-5.633	5.33
30	MP3B	Mx	0.007	5.33
31	MP3C	X	-1.628	0.67
32	MP3C	Z	-2.82	0.67
33	MP3C	Mx	-0.003	0.67
34	MP3C	X	-1.628	5.33
35	MP3C	Z	-2.82	5.33
36	MP3C	Mx	-0.003	5.33
37	MP4A	X	-2.29	1.04
38	MP4A	Z	-3.966	1.04
39	MP4A	Mx	0.002	1.04
40	MP4A	X	-2.29	2.96
41	MP4A	Z	-3.966	2.96
42	MP4A	Mx	0.002	2.96
43	MP4B	X	-2.29	1.04
44	MP4B	Z	-3.966	1.04
45	MP4B	Mx	0.002	1.04
46	MP4B	X	-2.29	2.96
47	MP4B	Z	-3.966	2.96
48	MP4B	Mx	0.002	2.96
49	MP4C	X	-0.943	1.04
50	MP4C	Z	-1.634	1.04
51	MP4C	Mx	-0.002	1.04
52	MP4C	X	-0.943	2.96
53	MP4C	Z	-1.634	2.96
54	MP4C	Mx	-0.002	2.96
55	MP3A	X	-0.961	2
56	MP3A	Z	-1.664	2
57	MP3A	Mx	-0.000961	2
58	MP3A	X	-0.961	2
59	MP3A	Z	-1.664	2
60	MP3A	Mx	-0.000961	2
61	MP3B	X	-0.961	2
62	MP3B	Z	-1.664	2
63	MP3B	Mx	-0.000961	2
64	MP3B	X	-0.961	2
65	MP3B	Z	-1.664	2
66	MP3B	Mx	-0.000961	2
67	MP3C	X	-0.594	1
68	MP3C	Z	-1.029	1
69	MP3C	Mx	0.001	1
70	MP3C	X	-0.594	2
71	MP3C	Z	-1.029	2
72	MP3C	Mx	0.001	2
73	MP3A	X	-0.994	5.5
74	MP3A	Z	-1.721	5.5
75	MP3A	Mx	-0.000994	5.5
76	MP3A	X	-0.994	5.5
77	MP3A	Z	-1.721	5.5
78	MP3A	Mx	-0.000994	5.5
79	MP3B	X	-0.994	5.5

Member Point Loads (BLC 38 : Antenna Wm (330 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
80	MP3B	Z	-1.721	5.5
81	MP3B	Mx	-0.000993	5.5
82	MP3B	X	-0.994	5.5
83	MP3B	Z	-1.721	5.5
84	MP3B	Mx	-0.000993	5.5
85	MP3C	X	-0.727	5.5
86	MP3C	Z	-1.259	5.5
87	MP3C	Mx	0.001	5.5
88	MP3C	X	-0.727	5.5
89	MP3C	Z	-1.259	5.5
90	MP3C	Mx	0.001	5.5
91	MP2A	X	-2.082	2
92	MP2A	Z	-3.606	2
93	MP2A	Mx	-0.001	2
94	MP2A	X	-2.082	2
95	MP2A	Z	-3.606	2
96	MP2A	Mx	-0.001	2
97	MP1C	X	-3.765	0.53
98	MP1C	Z	-6.521	0.53
99	MP1C	Mx	-0.009	0.53
100	MP1C	X	-3.765	3.47
101	MP1C	Z	-6.521	3.47
102	MP1C	Mx	-0.009	3.47
103	MP5C	X	-3.765	0.53
104	MP5C	Z	-6.521	0.53
105	MP5C	Mx	-0.009	0.53
106	MP5C	X	-3.765	3.47
107	MP5C	Z	-6.521	3.47
108	MP5C	Mx	-0.009	3.47
109	MP1A	X	-2.311	0.53
110	MP1A	Z	-4.002	0.53
111	MP1A	Mx	0.003	0.53
112	MP1A	X	-2.311	3.47
113	MP1A	Z	-4.002	3.47
114	MP1A	Mx	0.003	3.47
115	MP5A	X	-2.311	0.53
116	MP5A	Z	-4.002	0.53
117	MP5A	Mx	0.003	0.53
118	MP5A	X	-2.311	3.47
119	MP5A	Z	-4.002	3.47
120	MP5A	Mx	0.003	3.47
121	MP5B	X	-2.311	0.53
122	MP5B	Z	-4.002	0.53
123	MP5B	Mx	0.003	0.53
124	MP5B	X	-2.311	3.47
125	MP5B	Z	-4.002	3.47
126	MP5B	Mx	0.003	3.47
127	MP1B	X	-4.164	0.53
128	MP1B	Z	-7.212	0.53
129	MP1B	Mx	0.005	0.53
130	MP1B	X	-4.164	3.47
131	MP1B	Z	-7.212	3.47
132	MP1B	Mx	0.005	3.47
133	MP3C	X	-1.343	3.5
134	MP3C	Z	-2.326	3.5

Member Point Loads (BLC 38 : Antenna Wm (330 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
135	MP3C	Mx	0.003	3.5
136	MP3C	X	-1.343	3.5
137	MP3C	Z	-2.326	3.5
138	MP3C	Mx	0.003	3.5

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	M1	Y	-500	%11

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	M1	Y	-500	%48

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	M1	Y	-250	0

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	M1	Y	-250	%100

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	Y	-0.811	0.67
2	MP3A	My	-0.000811	0.67
3	MP3A	Mz	-0.000473	0.67
4	MP3A	Y	-0.811	5.33
5	MP3A	My	-0.000811	5.33
6	MP3A	Mz	-0.000473	5.33
7	MP3B	Y	-0.811	0.67
8	MP3B	My	0.000815	0.67
9	MP3B	Mz	-0.000466	0.67
10	MP3B	Y	-0.811	5.33
11	MP3B	My	0.000815	5.33
12	MP3B	Mz	-0.000466	5.33
13	MP3C	Y	-0.811	0.67
14	MP3C	My	-4e-6	0.67
15	MP3C	Mz	0.000939	0.67
16	MP3C	Y	-0.811	5.33
17	MP3C	My	-4e-6	5.33
18	MP3C	Mz	0.000939	5.33
19	MP3A	Y	-0.811	0.67
20	MP3A	My	-0.000811	0.67
21	MP3A	Mz	0.000473	0.67
22	MP3A	Y	-0.811	5.33
23	MP3A	My	-0.000811	5.33
24	MP3A	Mz	0.000473	5.33
25	MP3B	Y	-0.811	0.67
26	MP3B	My	-4e-6	0.67

Member Point Loads (BLC 81 : Antenna Ev) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
27	MP3B	Mz	-0.000939	0.67
28	MP3B	Y	-0.811	5.33
29	MP3B	My	-4e-6	5.33
30	MP3B	Mz	-0.000939	5.33
31	MP3C	Y	-0.811	0.67
32	MP3C	My	0.000815	0.67
33	MP3C	Mz	0.000466	0.67
34	MP3C	Y	-0.811	5.33
35	MP3C	My	0.000815	5.33
36	MP3C	Mz	0.000466	5.33
37	MP4A	Y	-1.617	1.04
38	MP4A	My	-0.002	1.04
39	MP4A	Mz	0	1.04
40	MP4A	Y	-1.617	2.96
41	MP4A	My	-0.002	2.96
42	MP4A	Mz	0	2.96
43	MP4B	Y	-1.617	1.04
44	MP4B	My	0.000808	1.04
45	MP4B	Mz	-0.001	1.04
46	MP4B	Y	-1.617	2.96
47	MP4B	My	0.000808	2.96
48	MP4B	Mz	-0.001	2.96
49	MP4C	Y	-1.617	1.04
50	MP4C	My	0.000808	1.04
51	MP4C	Mz	0.001	1.04
52	MP4C	Y	-1.617	2.96
53	MP4C	My	0.000808	2.96
54	MP4C	Mz	0.001	2.96
55	MP3A	Y	-1.305	2
56	MP3A	My	0.001	2
57	MP3A	Mz	0	2
58	MP3A	Y	-1.305	2
59	MP3A	My	0.001	2
60	MP3A	Mz	0	2
61	MP3B	Y	-1.305	2
62	MP3B	My	-0.000652	2
63	MP3B	Mz	0.001	2
64	MP3B	Y	-1.305	2
65	MP3B	My	-0.000652	2
66	MP3B	Mz	0.001	2
67	MP3C	Y	-1.305	1
68	MP3C	My	-0.000652	1
69	MP3C	Mz	-0.001	1
70	MP3C	Y	-1.305	2
71	MP3C	My	-0.000652	2
72	MP3C	Mz	-0.001	2
73	MP3A	Y	-1.566	5.5
74	MP3A	My	0.002	5.5
75	MP3A	Mz	0	5.5
76	MP3A	Y	-1.566	5.5
77	MP3A	My	0.002	5.5
78	MP3A	Mz	0	5.5
79	MP3B	Y	-1.566	5.5
80	MP3B	My	-0.000783	5.5
81	MP3B	Mz	0.001	5.5

Member Point Loads (BLC 81 : Antenna Ev) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
82	MP3B	Y	-1.566	5.5
83	MP3B	My	-0.000783	5.5
84	MP3B	Mz	0.001	5.5
85	MP3C	Y	-1.566	5.5
86	MP3C	My	-0.000783	5.5
87	MP3C	Mz	-0.001	5.5
88	MP3C	Y	-1.566	5.5
89	MP3C	My	-0.000783	5.5
90	MP3C	Mz	-0.001	5.5
91	MP2A	Y	-0.594	2
92	MP2A	My	0.000297	2
93	MP2A	Mz	0	2
94	MP2A	Y	-0.594	2
95	MP2A	My	0.000297	2
96	MP2A	Mz	0	2
97	MP1C	Y	-0.371	0.53
98	MP1C	My	0.000217	0.53
99	MP1C	Mz	0.000375	0.53
100	MP1C	Y	-0.371	3.47
101	MP1C	My	0.000217	3.47
102	MP1C	Mz	0.000375	3.47
103	MP5C	Y	-0.371	0.53
104	MP5C	My	0.000217	0.53
105	MP5C	Mz	0.000375	0.53
106	MP5C	Y	-0.371	3.47
107	MP5C	My	0.000217	3.47
108	MP5C	Mz	0.000375	3.47
109	MP1A	Y	-0.223	0.53
110	MP1A	My	-0.00026	0.53
111	MP1A	Mz	0	0.53
112	MP1A	Y	-0.223	3.47
113	MP1A	My	-0.00026	3.47
114	MP1A	Mz	0	3.47
115	MP5A	Y	-0.223	0.53
116	MP5A	My	-0.00026	0.53
117	MP5A	Mz	0	0.53
118	MP5A	Y	-0.223	3.47
119	MP5A	My	-0.00026	3.47
120	MP5A	Mz	0	3.47
121	MP5B	Y	-0.223	0.53
122	MP5B	My	0.00013	0.53
123	MP5B	Mz	-0.000225	0.53
124	MP5B	Y	-0.223	3.47
125	MP5B	My	0.00013	3.47
126	MP5B	Mz	-0.000225	3.47
127	MP1B	Y	-0.371	0.53
128	MP1B	My	0.000217	0.53
129	MP1B	Mz	-0.000375	0.53
130	MP1B	Y	-0.371	3.47
131	MP1B	My	0.000217	3.47
132	MP1B	Mz	-0.000375	3.47
133	MP3C	Y	-0.653	3.5
134	MP3C	My	-0.000515	3.5
135	MP3C	Mz	-0.000457	3.5
136	MP3C	Y	-0.653	3.5

Member Point Loads (BLC 81 : Antenna Ev) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
137	MP3C	My	-0.000138	3.5
138	MP3C	Mz	-0.000675	3.5

Member Point Loads (BLC 82 : Antenna Eh (0 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	Z	-2.028	0.67
2	MP3A	Mx	0.001	0.67
3	MP3A	Z	-2.028	5.33
4	MP3A	Mx	0.001	5.33
5	MP3B	Z	-2.028	0.67
6	MP3B	Mx	0.001	0.67
7	MP3B	Z	-2.028	5.33
8	MP3B	Mx	0.001	5.33
9	MP3C	Z	-2.028	0.67
10	MP3C	Mx	-0.002	0.67
11	MP3C	Z	-2.028	5.33
12	MP3C	Mx	-0.002	5.33
13	MP3A	Z	-2.028	0.67
14	MP3A	Mx	-0.001	0.67
15	MP3A	Z	-2.028	5.33
16	MP3A	Mx	-0.001	5.33
17	MP3B	Z	-2.028	0.67
18	MP3B	Mx	0.002	0.67
19	MP3B	Z	-2.028	5.33
20	MP3B	Mx	0.002	5.33
21	MP3C	Z	-2.028	0.67
22	MP3C	Mx	-0.001	0.67
23	MP3C	Z	-2.028	5.33
24	MP3C	Mx	-0.001	5.33
25	MP4A	Z	-4.041	1.04
26	MP4A	Mx	0	1.04
27	MP4A	Z	-4.041	2.96
28	MP4A	Mx	0	2.96
29	MP4B	Z	-4.041	1.04
30	MP4B	Mx	0.004	1.04
31	MP4B	Z	-4.041	2.96
32	MP4B	Mx	0.004	2.96
33	MP4C	Z	-4.041	1.04
34	MP4C	Mx	-0.004	1.04
35	MP4C	Z	-4.041	2.96
36	MP4C	Mx	-0.004	2.96
37	MP3A	Z	-3.262	2
38	MP3A	Mx	0	2
39	MP3A	Z	-3.262	2
40	MP3A	Mx	0	2
41	MP3B	Z	-3.262	2
42	MP3B	Mx	-0.003	2
43	MP3B	Z	-3.262	2
44	MP3B	Mx	-0.003	2
45	MP3C	Z	-3.262	1
46	MP3C	Mx	0.003	1
47	MP3C	Z	-3.262	2
48	MP3C	Mx	0.003	2
49	MP3A	Z	-3.916	5.5
50	MP3A	Mx	0	5.5

Member Point Loads (BLC 82 : Antenna Eh (0 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
51	MP3A	Z	-3.916	5.5
52	MP3A	Mx	0	5.5
53	MP3B	Z	-3.916	5.5
54	MP3B	Mx	-0.003	5.5
55	MP3B	Z	-3.916	5.5
56	MP3B	Mx	-0.003	5.5
57	MP3C	Z	-3.916	5.5
58	MP3C	Mx	0.003	5.5
59	MP3C	Z	-3.916	5.5
60	MP3C	Mx	0.003	5.5
61	MP2A	Z	-1.485	2
62	MP2A	Mx	0	2
63	MP2A	Z	-1.485	2
64	MP2A	Mx	0	2
65	MP1C	Z	-0.928	0.53
66	MP1C	Mx	-0.000938	0.53
67	MP1C	Z	-0.928	3.47
68	MP1C	Mx	-0.000938	3.47
69	MP5C	Z	-0.928	0.53
70	MP5C	Mx	-0.000938	0.53
71	MP5C	Z	-0.928	3.47
72	MP5C	Mx	-0.000938	3.47
73	MP1A	Z	-0.557	0.53
74	MP1A	Mx	0	0.53
75	MP1A	Z	-0.557	3.47
76	MP1A	Mx	0	3.47
77	MP5A	Z	-0.557	0.53
78	MP5A	Mx	0	0.53
79	MP5A	Z	-0.557	3.47
80	MP5A	Mx	0	3.47
81	MP5B	Z	-0.557	0.53
82	MP5B	Mx	0.000563	0.53
83	MP5B	Z	-0.557	3.47
84	MP5B	Mx	0.000563	3.47
85	MP1B	Z	-0.928	0.53
86	MP1B	Mx	0.000938	0.53
87	MP1B	Z	-0.928	3.47
88	MP1B	Mx	0.000938	3.47
89	MP3C	Z	-1.633	3.5
90	MP3C	Mx	0.001	3.5
91	MP3C	Z	-1.633	3.5
92	MP3C	Mx	0.002	3.5

Member Point Loads (BLC 83 : Antenna Eh (90 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	2.028	0.67
2	MP3A	Mx	-0.002	0.67
3	MP3A	X	2.028	5.33
4	MP3A	Mx	-0.002	5.33
5	MP3B	X	2.028	0.67
6	MP3B	Mx	0.002	0.67
7	MP3B	X	2.028	5.33
8	MP3B	Mx	0.002	5.33
9	MP3C	X	2.028	0.67
10	MP3C	Mx	-1.1e-5	0.67

Member Point Loads (BLC 83 : Antenna Eh (90 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
11	MP3C	X	2.028	5.33
12	MP3C	Mx	-1.1e-5	5.33
13	MP3A	X	2.028	0.67
14	MP3A	Mx	-0.002	0.67
15	MP3A	X	2.028	5.33
16	MP3A	Mx	-0.002	5.33
17	MP3B	X	2.028	0.67
18	MP3B	Mx	-1.1e-5	0.67
19	MP3B	X	2.028	5.33
20	MP3B	Mx	-1.1e-5	5.33
21	MP3C	X	2.028	0.67
22	MP3C	Mx	0.002	0.67
23	MP3C	X	2.028	5.33
24	MP3C	Mx	0.002	5.33
25	MP4A	X	4.041	1.04
26	MP4A	Mx	-0.004	1.04
27	MP4A	X	4.041	2.96
28	MP4A	Mx	-0.004	2.96
29	MP4B	X	4.041	1.04
30	MP4B	Mx	0.002	1.04
31	MP4B	X	4.041	2.96
32	MP4B	Mx	0.002	2.96
33	MP4C	X	4.041	1.04
34	MP4C	Mx	0.002	1.04
35	MP4C	X	4.041	2.96
36	MP4C	Mx	0.002	2.96
37	MP3A	X	3.262	2
38	MP3A	Mx	0.003	2
39	MP3A	X	3.262	2
40	MP3A	Mx	0.003	2
41	MP3B	X	3.262	2
42	MP3B	Mx	-0.002	2
43	MP3B	X	3.262	2
44	MP3B	Mx	-0.002	2
45	MP3C	X	3.262	1
46	MP3C	Mx	-0.002	1
47	MP3C	X	3.262	2
48	MP3C	Mx	-0.002	2
49	MP3A	X	3.916	5.5
50	MP3A	Mx	0.004	5.5
51	MP3A	X	3.916	5.5
52	MP3A	Mx	0.004	5.5
53	MP3B	X	3.916	5.5
54	MP3B	Mx	-0.002	5.5
55	MP3B	X	3.916	5.5
56	MP3B	Mx	-0.002	5.5
57	MP3C	X	3.916	5.5
58	MP3C	Mx	-0.002	5.5
59	MP3C	X	3.916	5.5
60	MP3C	Mx	-0.002	5.5
61	MP2A	X	1.485	2
62	MP2A	Mx	0.000742	2
63	MP2A	X	1.485	2
64	MP2A	Mx	0.000742	2
65	MP1C	X	0.928	0.53

Member Point Loads (BLC 83 : Antenna Eh (90 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
66	MP1C	Mx	0.000541	0.53
67	MP1C	X	0.928	3.47
68	MP1C	Mx	0.000541	3.47
69	MP5C	X	0.928	0.53
70	MP5C	Mx	0.000541	0.53
71	MP5C	X	0.928	3.47
72	MP5C	Mx	0.000541	3.47
73	MP1A	X	0.557	0.53
74	MP1A	Mx	-0.00065	0.53
75	MP1A	X	0.557	3.47
76	MP1A	Mx	-0.00065	3.47
77	MP5A	X	0.557	0.53
78	MP5A	Mx	-0.00065	0.53
79	MP5A	X	0.557	3.47
80	MP5A	Mx	-0.00065	3.47
81	MP5B	X	0.557	0.53
82	MP5B	Mx	0.000325	0.53
83	MP5B	X	0.557	3.47
84	MP5B	Mx	0.000325	3.47
85	MP1B	X	0.928	0.53
86	MP1B	Mx	0.000541	0.53
87	MP1B	X	0.928	3.47
88	MP1B	Mx	0.000541	3.47
89	MP3C	X	1.633	3.5
90	MP3C	Mx	-0.001	3.5
91	MP3C	X	1.633	3.5
92	MP3C	Mx	-0.000345	3.5

Member Area Loads (BLC 39 : Structure D)

	Node A	Node B	Node C	Node D	Direction	Load Direction	A Magnitude [ksf]	B Magnitude [ksf]	C Magnitude [ksf]	D Magnitude [ksf]	Exclude Braces
1	N1	N2	N3	N4	Y	Two Way	-0.005	-0.005	-0.005	-0.005	Yes
2	N2	N44	N45	N3	Y	Two Way	-0.005	-0.005	-0.005	-0.005	Yes
3	N44	N1	N4	N45	Y	Two Way	-0.005	-0.005	-0.005	-0.005	Yes

Member Area Loads (BLC 40 : Structure Di)

	Node A	Node B	Node C	Node D	Direction	Load Direction	A Magnitude [ksf]	B Magnitude [ksf]	C Magnitude [ksf]	D Magnitude [ksf]	Exclude Braces
1	N1	N2	N3	N4	Y	Two Way	-0.013	-0.013	-0.013	-0.013	Yes
2	N2	N44	N45	N3	Y	Two Way	-0.013	-0.013	-0.013	-0.013	Yes
3	N44	N1	N4	N45	Y	Two Way	-0.013	-0.013	-0.013	-0.013	Yes

Member Area Loads (BLC 84 : Structure Ev)

	Node A	Node B	Node C	Node D	Direction	Load Direction	A Magnitude [ksf]	B Magnitude [ksf]	C Magnitude [ksf]	D Magnitude [ksf]	Exclude Braces
1	N1	N2	N3	N4	Y	Two Way	-0.000193	-0.000193	-0.000193	-0.000193	Yes
2	N2	N44	N45	N3	Y	Two Way	-0.000193	-0.000193	-0.000193	-0.000193	Yes
3	N44	N1	N4	N45	Y	Two Way	-0.000193	-0.000193	-0.000193	-0.000193	Yes

Member Area Loads (BLC 85 : Structure Eh (0 Deg))

	Node A	Node B	Node C	Node D	Direction	Load Direction	A Magnitude [ksf]	B Magnitude [ksf]	C Magnitude [ksf]	D Magnitude [ksf]	Exclude Braces
1	N1	N2	N3	N4	Z	Two Way	-0.000483	-0.000483	-0.000483	-0.000483	Yes
2	N2	N44	N45	N3	Z	Two Way	-0.000483	-0.000483	-0.000483	-0.000483	Yes

Member Area Loads (BLC 85 : Structure Eh (0 Deg)) (Continued)

	Node A	Node B	Node C	Node D	Direction	Load Direction	A Magnitude [ksf]	B Magnitude [ksf]	C Magnitude [ksf]	D Magnitude [ksf]	Exclude Braces
3	N44	N1	N4	N45	Z	Two Way	-0.000483	-0.000483	-0.000483	-0.000483	Yes

Member Area Loads (BLC 86 : Structure Eh (90 Deg))

	Node A	Node B	Node C	Node D	Direction	Load Direction	A Magnitude [ksf]	B Magnitude [ksf]	C Magnitude [ksf]	D Magnitude [ksf]	Exclude Braces
1	N1	N2	N3	N4	X	Two Way	0.000483	0.000483	0.000483	0.000483	Yes
2	N2	N44	N45	N3	X	Two Way	0.000483	0.000483	0.000483	0.000483	Yes
3	N44	N1	N4	N45	X	Two Way	0.000483	0.000483	0.000483	0.000483	Yes

Envelope Node Reactions

	Node Label		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N24	max	1769.742	9	1130.411	13	901.28	1	0.999	7	1.351	8	0.456	26
2		min	-1760.442	3	-321.861	7	-842.205	7	-2.429	37	-1.359	2	-0.22	8
3	N21	max	1169.086	10	1045.834	17	1434.366	1	1.147	4	1.145	12	0.943	11
4		min	-1201.7	4	-339.083	11	-1497.059	7	-0.552	10	-1.191	6	-2.008	5
5	N27	max	1285.759	10	1159.318	21	1609.35	1	1.29	9	1.355	8	2.162	9
6		min	-1224.316	4	-339.799	3	-1596.845	7	-0.544	3	-1.406	2	-0.887	3
7	N137	max	414.469	10	2684.025	19	137.209	1	0.001	1	0	8	0	26
8		min	-390.726	4	-60.603	1	-2227.116	19	-0.002	7	-0.001	26	0	8
9	N140	max	1930.43	22	2668.305	23	1156.336	24	0.001	12	0	12	0.001	4
10		min	-187.288	4	-63.669	5	-201.598	6	-0.001	6	0	6	-0.001	10
11	N143	max	164.117	10	2736.163	15	1159.829	14	0.001	2	0	8	0.001	3
12		min	-1990.426	16	-113.357	9	-308.26	8	-0.001	8	0	2	-0.001	9
13	Totals:	max	5917.318	10	10065.384	17	5713.314	1						
14		min	-5917.319	4	2354.219	74	-5713.313	7						

Node Reactions

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
1	1	N24	-46.754	983.728	901.28	-2.332	-0.086	0.087
2	1	N21	-558.179	26.992	1434.366	0.045	1.036	0.208
3	1	N27	632.082	15.092	1609.35	0.01	-1.319	-0.231
4	1	N137	17.68	-60.603	137.209	0.001	0	0
5	1	N140	651.376	1127.985	810.092	0.001	0	-0.001
6	1	N143	-696.221	1180.794	821.018	0.001	0	0.001
7	1	Totals:	-0.016	3273.989	5713.314			
8	1	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
9	2	N24	-1391.898	892.982	703.842	-2.126	-1.359	0.248
10	2	N21	-728.73	330.765	1210.868	0.38	0.668	-0.555
11	2	N27	141.5	-242.46	1561.439	-0.296	-1.406	-0.787
12	2	N137	-256.989	42.908	39.759	0.001	0	0
13	2	N140	335.729	742.331	635.765	0	0	0
14	2	N143	-1011.512	1507.465	891.852	0.001	0	0.001
15	2	Totals:	-2911.9	3273.991	5043.524			
16	2	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
17	3	N24	-1760.442	649.122	321.05	-1.523	-1.35	0.202
18	3	N21	-1030.007	644.99	1198.009	0.838	1.056	-1.279
19	3	N27	-716.38	-339.799	521.17	-0.544	-0.156	-0.887
20	3	N137	-376.754	342.008	-237.991	0	0	0
21	3	N140	12.666	342.593	455.853	0	0	0
22	3	N143	-1260.954	1635.079	704.802	0.001	0	0.001
23	3	Totals:	-5131.871	3273.993	2962.893			
24	3	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
25	4	N24	-1627.079	324.68	43.691	-0.639	-0.96	0.101

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
26	4	N21	-1201.7	889.791	733.365	1.147	1.13	-1.799
27	4	N27	-1224.316	-217.68	-773.169	-0.535	1.147	-0.549
28	4	N137	-390.726	754.787	-618.549	0	0	0
29	4	N140	-187.288	33.529	229.316	0	0	0.001
30	4	N143	-1286.21	1488.888	385.358	0.001	0	0.001
31	4	Totals:	-5917.319	3273.995	0.011			
32	4	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
33	5	N24	-1658.639	3.242	-232.677	0.236	-1.232	0.123
34	5	N21	-734.078	963.032	-479.611	1.083	-0.047	-2.008
35	5	N27	-1057.758	54.03	-1283.359	-0.168	1.168	0.024
36	5	N137	-380.555	1166.721	-1001.49	-0.001	0	0
37	5	N140	-136.145	-63.669	-43.801	-0.001	0	0.001
38	5	N143	-1061.736	1150.641	137.513	0.001	0	0.001
39	5	Totals:	-5028.911	3273.996	-2903.426			
40	5	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
41	6	N24	-1273.668	-233.703	-622.414	0.814	-1.195	0.12
42	6	N21	67.035	839.006	-1450.027	0.81	-1.191	-1.816
43	6	N27	-748.464	368.898	-1331.753	0.325	0.851	0.721
44	6	N137	-266.85	1467.312	-1287.285	-0.001	0	0
45	6	N140	107.952	81.401	-201.598	-0.001	0	0.001
46	6	N143	-738.447	751.08	-47.47	0	0	0
47	6	Totals:	-2852.442	3273.995	-4940.548			
48	6	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
49	7	N24	55.497	-321.861	-842.205	0.999	0.079	-0.056
50	7	N21	523.372	587.295	-1497.059	0.543	-1.081	-1.241
51	7	N27	-568.843	681.856	-1596.845	0.714	1.267	1.474
52	7	N137	6.179	1581.775	-1398.108	-0.002	0	0
53	7	N140	406.155	392.711	-141.197	0	0	0
54	7	N143	-422.345	352.217	-237.9	0	0	0
55	7	Totals:	0.014	3273.992	-5713.313			
56	7	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
57	8	N24	1400.496	-235.508	-643.865	0.807	1.351	-0.22
58	8	N21	693.491	280.762	-1274.247	0.203	-0.714	-0.471
59	8	N27	-80.1	945.5	-1548.145	1.034	1.355	2.048
60	8	N137	283.184	1482.455	-1300.921	-0.001	0	0
61	8	N140	723.264	782.217	31.915	0	0	0
62	8	N143	-108.436	18.564	-308.26	-0.001	0	-0.001
63	8	Totals:	2911.899	3273.99	-5043.523			
64	8	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
65	9	N24	1769.742	1.593	-259.255	0.227	1.343	-0.175
66	9	N21	996.001	-32.036	-1261.186	-0.253	-1.103	0.247
67	9	N27	776.767	1047.397	-507.293	1.29	0.105	2.162
68	9	N137	402.86	1191.191	-1023.131	-0.001	0	0
69	9	N140	1047.864	1179.2	210.561	0.001	0	-0.001
70	9	N143	138.637	-113.357	-122.588	-0.001	0	-0.001
71	9	Totals:	5131.87	3273.988	-2962.893			
72	9	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
73	10	N24	1636.123	324.262	19.186	-0.65	0.953	-0.073
74	10	N21	1169.086	-270.233	-795.261	-0.552	-1.175	0.746
75	10	N27	1285.759	921.267	786.195	1.271	-1.199	1.813
76	10	N137	414.469	781.682	-641.925	0	0	0
77	10	N140	1247.764	1480.131	436.879	0.001	0	-0.001
78	10	N143	164.117	36.876	194.915	0	0	-0.001
79	10	Totals:	5917.318	3273.986	-0.01			
80	10	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
81	11	N24	1667.353	648.521	294.666	-1.535	1.225	-0.093
82	11	N21	702.046	-339.083	418.198	-0.48	0.001	0.943
83	11	N27	1120.606	643.249	1294.71	0.892	-1.219	1.221
84	11	N137	401.996	365.969	-258.53	0	0	0
85	11	N140	1195.516	1573.095	711.689	0.001	0	-0.001
86	11	N143	-58.607	382.234	442.695	0	0	0
87	11	Totals:	5028.91	3273.985	2903.428			
88	11	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
89	12	N24	1282.769	891.735	682.575	-2.133	1.189	-0.089
90	12	N21	-100.169	-218.863	1387.945	-0.213	1.145	0.764
91	12	N27	812.245	326.252	1343.084	0.395	-0.902	0.517
92	12	N137	288.3	57.857	27.1	0.001	0	0
93	12	N140	949.816	1432.264	870.804	0.001	0	-0.001
94	12	N143	-380.521	784.741	629.041	0	0	0
95	12	Totals:	2852.44	3273.986	4940.55			
96	12	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
97	13	N24	68.139	1130.411	501.01	-2.301	0.035	0.074
98	13	N21	-359.388	760.637	320.368	0.684	0.304	-1.122
99	13	N27	399.023	851.054	409.738	0.815	-0.44	1.351
100	13	N137	-42.006	2181.873	-1750.628	0	0	0
101	13	N140	1755.909	2534.577	1137.109	0.001	0	-0.001
102	13	N143	-1821.682	2606.83	1140.105	0.001	0	0.001
103	13	Totals:	-0.006	10065.382	1757.702			
104	13	COG (ft):	X: 0.118	Y: 1.13	Z: 0.038			
105	14	N24	-325.174	1101.278	446.255	-2.231	-0.325	0.123
106	14	N21	-428.794	854.433	257.586	0.791	0.217	-1.353
107	14	N27	247.966	776.195	370.282	0.718	-0.436	1.191
108	14	N137	-121.998	2215.908	-1783.168	0	0	0
109	14	N140	1657.332	2415.95	1083.083	0	0	-0.001
110	14	N143	-1914.919	2701.62	1159.829	0.001	0	0.001
111	14	Totals:	-885.587	10065.383	1533.868			
112	14	COG (ft):	X: 0.118	Y: 1.13	Z: 0.038			
113	15	N24	-449.511	1026.855	333.73	-2.044	-0.347	0.116
114	15	N21	-520.445	949.559	231.125	0.924	0.305	-1.572
115	15	N27	6.14	749.831	64.614	0.645	-0.087	1.165
116	15	N137	-156.858	2307.806	-1870.442	-0.001	0	0
117	15	N140	1558.321	2295.169	1026.634	0	0	-0.001
118	15	N143	-1984.156	2736.163	1107.222	0.001	0	0.001
119	15	Totals:	-1546.51	10065.383	892.882			
120	15	COG (ft):	X: 0.118	Y: 1.13	Z: 0.038			
121	16	N24	-424.219	929.1	237.916	-1.781	-0.253	0.09
122	16	N21	-561.654	1022.577	80.456	1.011	0.304	-1.732
123	16	N27	-146.021	784.779	-306.485	0.646	0.278	1.265
124	16	N137	-160.96	2431.758	-1987.017	-0.001	0	0
125	16	N140	1496.376	2202.685	957.952	0	0	-0.001
126	16	N143	-1990.426	2694.485	1017.181	0.001	0	0.001
127	16	Totals:	-1786.904	10065.384	0.003			
128	16	COG (ft):	X: 0.118	Y: 1.13	Z: 0.038			
129	17	N24	-423.374	831.355	142.7	-1.517	-0.314	0.091
130	17	N21	-422.886	1045.834	-271.257	0.994	-0.026	-1.8
131	17	N27	-114.236	864.238	-473.907	0.749	0.314	1.438
132	17	N137	-158.307	2556.395	-2104.463	-0.001	0	0
133	17	N140	1507.981	2171.781	877.595	0	0	-0.001
134	17	N143	-1925.05	2595.781	942.598	0.001	0	0.001
135	17	Totals:	-1535.871	10065.384	-886.733			

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
136	17	COG (ft):	X: 0.118	Y: 1.13	Z: 0.038			
137	18	N24	-294.56	758.008	29.253	-1.334	-0.282	0.084
138	18	N21	-189.53	1010.864	-562.164	0.912	-0.354	-1.748
139	18	N27	-22.658	961.143	-511.621	0.896	0.245	1.655
140	18	N137	-125.812	2649.348	-2193.369	-0.001	0	0
141	18	N140	1579.035	2212.873	831.988	0	0	-0.001
142	18	N143	-1825.912	2473.148	882.688	0.001	0	0.001
143	18	Totals:	-879.437	10065.384	-1523.225			
144	18	COG (ft):	X: 0.118	Y: 1.13	Z: 0.038			
145	19	N24	94.997	731.351	-30.226	-1.276	0.076	0.031
146	19	N21	-42.61	935.125	-597.13	0.824	-0.353	-1.577
147	19	N27	50.571	1057.154	-579.184	1.02	0.339	1.882
148	19	N137	-47.005	2684.025	-2227.116	-0.001	0	0
149	19	N140	1670.671	2306.537	851.175	0	0	-0.001
150	19	N143	-1726.62	2351.191	824.776	0	0	0.001
151	19	Totals:	0.004	10065.383	-1757.704			
152	19	COG (ft):	X: 0.118	Y: 1.13	Z: 0.038			
153	20	N24	488.318	760.111	24.618	-1.344	0.436	-0.018
154	20	N21	26.747	841.115	-534.416	0.717	-0.266	-1.346
155	20	N27	201.465	1132.562	-539.647	1.118	0.335	2.044
156	20	N137	33.186	2650.357	-2194.568	-0.001	0	0
157	20	N140	1769.347	2425.487	905.068	0	0	-0.001
158	20	N143	-1633.477	2255.751	805.075	0	0	0
159	20	Totals:	885.586	10065.382	-1533.87			
160	20	COG (ft):	X: 0.118	Y: 1.13	Z: 0.038			
161	21	N24	612.697	833.966	137.316	-1.528	0.458	-0.011
162	21	N21	118.513	746.149	-507.937	0.584	-0.354	-1.127
163	21	N27	443.208	1159.318	-233.949	1.191	-0.014	2.071
164	21	N137	68.032	2559.133	-2107.247	-0.001	0	0
165	21	N140	1868.47	2545.981	961.398	0.001	0	-0.001
166	21	N143	-1564.412	2220.834	857.535	0	0	0
167	21	Totals:	1546.508	10065.382	-892.884			
168	21	COG (ft):	X: 0.118	Y: 1.13	Z: 0.038			
169	22	N24	587.372	931.551	233.228	-1.792	0.364	0.014
170	22	N21	159.865	673.688	-357.167	0.498	-0.353	-0.969
171	22	N27	595.452	1124.025	137.067	1.189	-0.379	1.97
172	22	N137	71.936	2435.482	-1990.621	-0.001	0	0
173	22	N140	1930.43	2637.764	1030.083	0.001	0	-0.001
174	22	N143	-1558.152	2262.872	947.406	0	0	0
175	22	Totals:	1786.902	10065.382	-0.005			
176	22	COG (ft):	X: 0.118	Y: 1.13	Z: 0.038			
177	23	N24	586.491	1029.522	328.351	-2.056	0.424	0.013
178	23	N21	21.149	650.796	-5.401	0.516	-0.023	-0.902
179	23	N27	563.802	1044.008	304.353	1.085	-0.415	1.794
180	23	N137	69.09	2310.522	-1873.17	0	0	0
181	23	N140	1918.745	2668.305	1110.607	0.001	0	-0.001
182	23	N143	-1623.407	2362.228	1021.992	0	0	0.001
183	23	Totals:	1535.869	10065.381	886.731			
184	23	COG (ft):	X: 0.118	Y: 1.13	Z: 0.038			
185	24	N24	457.701	1103.417	441.624	-2.24	0.393	0.021
186	24	N21	-212.31	685.426	285.467	0.597	0.305	-0.954
187	24	N27	472.315	946.898	342.064	0.937	-0.346	1.578
188	24	N137	36.592	2216.899	-1784.308	0	0	0
189	24	N140	1847.565	2627.59	1156.336	0.001	0	-0.001
190	24	N143	-1722.428	2485.152	1082.041	0.001	0	0.001

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
191	24	Totals:	879.435	10065.382	1523.223			
192	24	COG (ft):	X: 0.118	Y: 1.13	Z: 0.038			
193	25	N24	396.948	562.745	170.614	-1.194	0.345	0.445
194	25	N21	-50.945	183.728	38.793	0.14	0.01	-0.218
195	25	N27	169.218	302.496	292.209	0.022	-0.353	0.57
196	25	N137	-307.692	1045.22	-857.664	0	-0.001	0
197	25	N140	613.375	885.233	402.99	0	0	-0.001
198	25	N143	-820.907	1044.563	310.146	0	0	0
199	25	Totals:	-0.002	4023.986	357.087			
200	25	COG (ft):	X: 1.097	Y: 0.849	Z: 0.764			
201	26	N24	312.899	557.256	158.235	-1.182	0.266	0.456
202	26	N21	-61.619	202.759	24.858	0.161	-0.013	-0.266
203	26	N27	138.569	286.278	289.192	0.003	-0.358	0.535
204	26	N137	-324.905	1051.567	-863.723	0	-0.001	0
205	26	N140	593.591	861.07	392.125	0	0	-0.001
206	26	N143	-840.528	1065.055	314.536	0	0	0
207	26	Totals:	-181.994	4023.986	315.224			
208	26	COG (ft):	X: 1.097	Y: 0.849	Z: 0.764			
209	27	N24	289.871	542.259	134.264	-1.145	0.266	0.453
210	27	N21	-80.491	222.326	24.016	0.189	0.011	-0.311
211	27	N27	84.935	280.116	224.162	-0.013	-0.28	0.528
212	27	N137	-332.407	1069.976	-881.069	0	-0.001	0
213	27	N140	573.338	836.211	380.899	0	0	-0.001
214	27	N143	-855.992	1073.097	302.915	0	0	0
215	27	Totals:	-320.746	4023.986	185.187			
216	27	COG (ft):	X: 1.097	Y: 0.849	Z: 0.764			
217	28	N24	298.271	522.065	116.916	-1.089	0.291	0.446
218	28	N21	-91.252	237.42	-5.116	0.208	0.016	-0.343
219	28	N27	53.125	287.896	143.288	-0.012	-0.199	0.55
220	28	N137	-333.294	1095.611	-904.866	0	-0.001	0
221	28	N140	560.821	817.152	366.717	0	0	-0.001
222	28	N143	-857.503	1063.843	283.069	0	0	0
223	28	Totals:	-369.833	4023.986	0.009			
224	28	COG (ft):	X: 1.097	Y: 0.849	Z: 0.764			
225	29	N24	296.342	501.891	99.689	-1.034	0.274	0.448
226	29	N21	-62.027	241.879	-80.986	0.204	-0.058	-0.355
227	29	N27	63.49	305.06	111.455	0.011	-0.197	0.586
228	29	N137	-332.684	1121.436	-928.815	0	-0.001	0
229	29	N140	564.034	811.186	349.565	0	0	-0.001
230	29	N143	-843.469	1042.534	267.638	0	0	0
231	29	Totals:	-314.313	4023.986	-181.454			
232	29	COG (ft):	X: 1.097	Y: 0.849	Z: 0.764			
233	30	N24	320.386	486.86	75.401	-0.998	0.276	0.448
234	30	N21	-11.9	234.262	-141.642	0.187	-0.13	-0.344
235	30	N27	82.818	324.782	108.434	0.042	-0.217	0.63
236	30	N137	-325.63	1140.428	-946.689	0	-0.001	0
237	30	N140	579.341	820.095	339.648	0	0	-0.001
238	30	N143	-823.293	1017.56	256.08	0	0	0
239	30	Totals:	-178.278	4023.986	-308.769			
240	30	COG (ft):	X: 1.097	Y: 0.849	Z: 0.764			
241	31	N24	403.441	481.182	61.707	-0.986	0.356	0.437
242	31	N21	16.705	218.732	-144.592	0.171	-0.123	-0.309
243	31	N27	94.096	344.251	91.835	0.066	-0.191	0.677
244	31	N137	-308.665	1147.673	-953.624	0	-0.001	0
245	31	N140	598	839.299	343.429	0	0	-0.001

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
246	31	N143	-803.577	992.849	244.175	0	0	0
247	31	Totals:	0	4023.986	-357.07			
248	31	COG (ft):	X: 1.097	Y: 0.849	Z: 0.764			
249	32	N24	487.49	486.653	74.089	-0.998	0.435	0.426
250	32	N21	27.379	199.691	-130.66	0.15	-0.1	-0.261
251	32	N27	124.739	360.493	94.856	0.085	-0.186	0.712
252	32	N137	-291.443	1141.342	-947.566	0	-0.001	0
253	32	N140	617.79	863.477	354.289	0	0	-0.001
254	32	N143	-783.962	972.33	239.787	0	0	0
255	32	Totals:	181.992	4023.986	-315.206			
256	32	COG (ft):	X: 1.097	Y: 0.849	Z: 0.764			
257	33	N24	510.521	501.624	98.067	-1.035	0.435	0.429
258	33	N21	46.255	180.129	-129.818	0.121	-0.124	-0.216
259	33	N27	178.368	366.672	159.887	0.101	-0.264	0.719
260	33	N137	-283.941	1122.963	-930.219	0	-0.001	0
261	33	N140	638.049	888.325	365.509	0	0	-0.001
262	33	N143	-768.507	964.272	251.403	0	0	0
263	33	Totals:	320.745	4023.985	-185.17			
264	33	COG (ft):	X: 1.097	Y: 0.849	Z: 0.764			
265	34	N24	502.12	521.811	115.419	-1.09	0.41	0.436
266	34	N21	57.021	165.061	-100.681	0.102	-0.129	-0.184
267	34	N27	210.182	358.877	240.758	0.1	-0.345	0.698
268	34	N137	-283.063	1097.341	-906.42	0	-0.001	0
269	34	N140	650.566	907.352	379.691	0	0	-0.001
270	34	N143	-766.994	973.542	271.241	0	0	0
271	34	Totals:	369.831	4023.985	0.008			
272	34	COG (ft):	X: 1.097	Y: 0.849	Z: 0.764			
273	35	N24	504.047	541.996	132.643	-1.145	0.427	0.434
274	35	N21	27.799	160.619	-24.809	0.107	-0.055	-0.171
275	35	N27	199.822	341.688	272.585	0.077	-0.347	0.661
276	35	N137	-283.683	1071.501	-882.469	0	-0.001	0
277	35	N140	647.348	913.302	396.85	0	0	-0.001
278	35	N143	-781.022	994.878	286.671	0	0	0
279	35	Totals:	314.312	4023.985	181.471			
280	35	COG (ft):	X: 1.097	Y: 0.849	Z: 0.764			
281	36	N24	480.005	557.051	156.923	-1.182	0.425	0.434
282	36	N21	-22.333	168.222	35.845	0.123	0.017	-0.183
283	36	N27	180.499	321.958	275.605	0.046	-0.327	0.617
284	36	N137	-290.737	1052.48	-864.595	0	-0.001	0
285	36	N140	632.035	904.41	406.772	0	0	-0.001
286	36	N143	-801.193	1019.864	298.236	0	0	0
287	36	Totals:	178.277	4023.985	308.786			
288	36	COG (ft):	X: 1.097	Y: 0.849	Z: 0.764			
289	37	N24	16.976	978.958	119.217	-2.429	0.015	0.123
290	37	N21	-50.075	259.18	65.082	0.224	0.044	-0.391
291	37	N27	65.28	303.387	116.735	0.273	-0.124	0.505
292	37	N137	-1.245	834.218	-680.491	0	0	0
293	37	N140	557.029	819.21	387.099	0	0	0
294	37	N143	-587.969	829.034	349.44	0	0	0
295	37	Totals:	-0.004	4023.987	357.08			
296	37	COG (ft):	X: 0.131	Y: 0.849	Z: 0.764			
297	38	N24	-67.085	973.419	106.845	-2.416	-0.064	0.133
298	38	N21	-60.734	278.225	51.143	0.245	0.022	-0.439
299	38	N27	34.662	287.132	113.71	0.254	-0.129	0.47
300	38	N137	-18.477	840.563	-686.573	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
301	38	N140	537.265	795.026	376.241	0	0	0
302	38	N143	-607.627	849.623	353.851	0	0	0
303	38	Totals:	-181.996	4023.987	315.216			
304	38	COG (ft):	X: 0.131	Y: 0.849	Z: 0.764			
305	39	N24	-90.138	958.394	82.861	-2.379	-0.064	0.13
306	39	N21	-79.609	297.807	50.332	0.274	0.046	-0.484
307	39	N27	-18.933	280.928	48.677	0.238	-0.051	0.463
308	39	N137	-25.956	859.01	-703.924	0	0	0
309	39	N140	517.027	770.145	365.03	0	0	0
310	39	N143	-623.14	857.702	342.204	0	0	0
311	39	Totals:	-320.748	4023.987	185.18			
312	39	COG (ft):	X: 0.131	Y: 0.849	Z: 0.764			
313	40	N24	-81.787	938.211	65.49	-2.324	-0.04	0.124
314	40	N21	-90.386	312.912	21.25	0.293	0.05	-0.515
315	40	N27	-50.711	288.685	-32.202	0.239	0.031	0.485
316	40	N137	-26.761	884.678	-727.7	0	0	0
317	40	N140	504.514	751.069	350.871	0	0	0
318	40	N143	-624.704	848.433	322.294	0	0	0
319	40	Totals:	-369.834	4023.987	0.002			
320	40	COG (ft):	X: 0.131	Y: 0.849	Z: 0.764			
321	41	N24	-83.751	918.08	48.237	-2.269	-0.057	0.125
322	41	N21	-61.177	317.371	-54.583	0.289	-0.023	-0.528
323	41	N27	-40.338	305.846	-64.044	0.262	0.032	0.521
324	41	N137	-26.063	910.5	-751.62	0	0	0
325	41	N140	507.723	745.1	333.745	0	0	0
326	41	N143	-610.708	827.089	306.803	0	0	0
327	41	Totals:	-314.315	4023.987	-181.461			
328	41	COG (ft):	X: 0.131	Y: 0.849	Z: 0.764			
329	42	N24	-59.703	903.104	23.924	-2.233	-0.054	0.125
330	42	N21	-11.068	309.746	-115.214	0.272	-0.095	-0.517
331	42	N27	-21.024	325.573	-67.064	0.293	0.012	0.565
332	42	N137	-18.963	929.491	-769.468	0	0	0
333	42	N140	523.019	754.021	323.845	0	0	0
334	42	N143	-590.541	802.053	295.202	0	0	0
335	42	Totals:	-178.28	4023.987	-308.776			
336	42	COG (ft):	X: 0.131	Y: 0.849	Z: 0.764			
337	43	N24	23.372	897.482	10.208	-2.221	0.025	0.114
338	43	N21	17.513	294.204	-118.143	0.255	-0.088	-0.481
339	43	N27	-9.769	345.059	-83.655	0.317	0.038	0.612
340	43	N137	-1.972	936.757	-776.376	0	0	0
341	43	N140	541.659	773.243	327.629	0	0	0
342	43	N143	-570.806	777.242	283.259	0	0	0
343	43	Totals:	-0.002	4023.987	-357.077			
344	43	COG (ft):	X: 0.131	Y: 0.849	Z: 0.764			
345	44	N24	107.432	903.004	22.583	-2.233	0.105	0.104
346	44	N21	28.17	275.149	-104.207	0.234	-0.065	-0.433
347	44	N27	20.843	361.338	-80.627	0.337	0.043	0.647
348	44	N137	15.27	930.428	-770.295	0	0	0
349	44	N140	561.429	797.441	338.482	0	0	0
350	44	N143	-551.154	756.626	278.85	0	0	0
351	44	Totals:	181.99	4023.987	-315.214			
352	44	COG (ft):	X: 0.131	Y: 0.849	Z: 0.764			
353	45	N24	130.488	918.003	46.574	-2.27	0.104	0.106
354	45	N21	47.05	255.572	-103.395	0.206	-0.089	-0.388
355	45	N27	74.433	367.558	-15.592	0.352	-0.035	0.654

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
356	45	N137	22.748	912.012	-752.944	0	0	0
357	45	N140	581.673	822.312	349.688	0	0	0
358	45	N143	-535.65	748.53	290.491	0	0	0
359	45	Totals:	320.743	4023.987	-185.177			
360	45	COG (ft):	X: 0.131	Y: 0.849	Z: 0.764			
361	46	N24	122.136	938.179	63.95	-2.325	0.08	0.113
362	46	N21	57.833	240.493	-74.308	0.187	-0.094	-0.357
363	46	N27	106.216	359.786	65.284	0.352	-0.116	0.632
364	46	N137	23.544	886.357	-729.165	0	0	0
365	46	N140	594.186	841.357	363.846	0	0	0
366	46	N143	-534.085	757.814	310.394	0	0	0
367	46	Totals:	369.829	4023.987	0.001			
368	46	COG (ft):	X: 0.131	Y: 0.849	Z: 0.764			
369	47	N24	124.1	958.321	81.199	-2.38	0.097	0.111
370	47	N21	28.626	236.051	1.526	0.191	-0.02	-0.344
371	47	N27	95.849	342.601	97.119	0.328	-0.117	0.596
372	47	N137	22.837	860.519	-705.243	0	0	0
373	47	N140	590.973	847.309	380.979	0	0	0
374	47	N143	-548.074	779.186	325.884	0	0	0
375	47	Totals:	314.31	4023.987	181.464			
376	47	COG (ft):	X: 0.131	Y: 0.849	Z: 0.764			
377	48	N24	100.053	973.321	105.505	-2.417	0.095	0.112
378	48	N21	-21.487	243.662	62.155	0.208	0.051	-0.355
379	48	N27	76.538	322.865	100.139	0.297	-0.098	0.552
380	48	N137	15.737	841.5	-687.396	0	0	0
381	48	N140	575.67	838.404	390.884	0	0	0
382	48	N143	-568.236	804.234	337.491	0	0	0
383	48	Totals:	178.275	4023.987	308.779			
384	48	COG (ft):	X: 0.131	Y: 0.849	Z: 0.764			
385	49	N24	205.182	336.432	60.326	-0.656	0.185	0.184
386	49	N21	-21.315	246.355	-36.161	0.213	-0.023	-0.369
387	49	N27	154.855	346.392	158.777	0.194	-0.206	0.682
388	49	N137	-143.349	947.379	-781.17	0	0	0
389	49	N140	572.663	819.877	357.556	0	0	-0.001
390	49	N143	-768.033	952.554	240.673	0	0	0
391	49	Totals:	0.002	3648.988	0.001			
392	49	COG (ft):	X: 0.806	Y: 0.936	Z: 0.428			
393	50	N24	-189.692	324.059	61.421	-0.617	-0.184	-0.161
394	50	N21	-142.942	317.385	127.64	0.15	0.166	-0.607
395	50	N27	37.548	287.804	4.623	0.274	-0.026	0.478
396	50	N137	159.427	952.247	-785.316	0	0	0
397	50	N140	737.705	941.398	275.03	0	0	0
398	50	N143	-602.048	826.102	316.6	0	0	0
399	50	Totals:	-0.002	3648.994	-0.002			
400	50	COG (ft):	X: -0.632	Y: 0.936	Z: 0.428			
401	51	N24	5.229	385.379	36.754	-0.767	-0.004	0.017
402	51	N21	-20.584	363.097	-37.052	0.347	-0.027	-0.611
403	51	N27	37.177	411.461	6.534	0.427	-0.03	0.733
404	51	N137	13.786	888.758	-728.663	0	0	0
405	51	N140	611.943	881.847	386.281	0	0	0
406	51	N143	-647.551	889.115	336.147	0	0	0
407	51	Totals:	-0.001	3819.655	0.001			
408	51	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
409	52	N24	1.286	362.41	70.581	-0.732	-0.008	0.018
410	52	N21	-38.733	310.234	42.832	0.302	0.028	-0.512

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
411	52	N27	56.896	352.188	83.885	0.37	-0.085	0.618
412	52	N137	11.478	757.828	-618.576	0	0	0
413	52	N140	545.376	793.178	359.062	0	0	0
414	52	N143	-576.303	799.425	315.432	0	0	0
415	52	Totals:	-0.001	3375.264	253.216			
416	52	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
417	53	N24	-43.09	359.817	66.31	-0.726	-0.039	0.023
418	53	N21	-60.36	321.073	43.103	0.316	0.036	-0.536
419	53	N27	27.06	343.948	61.981	0.356	-0.061	0.603
420	53	N137	3.881	760.731	-621.3	0	0	0
421	53	N140	533.743	779.653	354.233	0	0	0
422	53	N143	-587.844	810.042	314.959	0	0	0
423	53	Totals:	-126.609	3375.264	219.285			
424	53	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
425	54	N24	-74.681	352.056	52.97	-0.706	-0.061	0.026
426	54	N21	-70.681	331.844	23.056	0.328	0.028	-0.56
427	54	N27	-1.225	340.966	25.023	0.348	-0.028	0.6
428	54	N137	-1.491	770.236	-630.093	0	0	0
429	54	N140	524.004	766.03	345.959	0	0	0
430	54	N143	-595.213	814.131	309.693	0	0	0
431	54	Totals:	-219.286	3375.264	126.609			
432	54	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
433	55	N24	-85.028	341.207	34.133	-0.679	-0.068	0.026
434	55	N21	-66.933	339.662	-11.942	0.333	0.007	-0.579
435	55	N27	-20.385	344.041	-17.092	0.347	0.006	0.609
436	55	N137	-3.2	783.794	-642.602	0	0	0
437	55	N140	518.768	755.96	336.458	0	0	0
438	55	N143	-596.438	810.6	301.047	0	0	0
439	55	Totals:	-253.217	3375.264	0.001			
440	55	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
441	56	N24	-71.349	330.179	14.846	-0.652	-0.057	0.023
442	56	N21	-50.118	342.429	-52.513	0.332	-0.023	-0.587
443	56	N27	-25.282	352.349	-53.077	0.354	0.031	0.629
444	56	N137	-0.787	797.771	-655.474	0	0	0
445	56	N140	519.438	752.145	328.275	0	0	0
446	56	N143	-591.188	800.391	291.336	0	0	0
447	56	Totals:	-219.285	3375.264	-126.607			
448	56	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
449	57	N24	-37.319	321.926	0.279	-0.631	-0.032	0.019
450	57	N21	-24.746	339.403	-87.784	0.324	-0.053	-0.583
451	57	N27	-14.607	363.666	-73.287	0.368	0.041	0.654
452	57	N137	5.102	808.421	-665.26	0	0	0
453	57	N140	525.834	755.608	323.603	0	0	0
454	57	N143	-580.872	786.24	283.164	0	0	0
455	57	Totals:	-126.608	3375.264	-219.284			
456	57	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
457	58	N24	7.951	318.656	-5.668	-0.623	0	0.013
458	58	N21	2.389	331.394	-108.309	0.311	-0.075	-0.567
459	58	N27	8.78	374.963	-72.311	0.384	0.032	0.678
460	58	N137	12.89	812.897	-669.339	0	0	0
461	58	N140	536.244	765.421	323.692	0	0	0
462	58	N143	-568.253	771.933	278.719	0	0	0
463	58	Totals:	0	3375.264	-253.215			
464	58	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
465	59	N24	52.328	321.245	-1.395	-0.63	0.032	0.008

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
466	59	N21	24.014	320.552	-108.581	0.297	-0.084	-0.544
467	59	N27	38.614	383.21	-50.405	0.398	0.008	0.693
468	59	N137	20.488	809.997	-666.615	0	0	0
469	59	N140	547.878	778.952	328.52	0	0	0
470	59	N143	-556.714	761.308	279.192	0	0	0
471	59	Totals:	126.608	3375.264	-219.284			
472	59	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
473	60	N24	83.919	329	11.947	-0.649	0.054	0.005
474	60	N21	34.336	309.784	-88.534	0.285	-0.076	-0.519
475	60	N27	66.898	386.195	-13.447	0.407	-0.025	0.696
476	60	N137	25.86	800.501	-657.821	0	0	0
477	60	N140	557.617	792.571	336.792	0	0	0
478	60	N143	-549.346	757.214	284.456	0	0	0
479	60	Totals:	219.285	3375.264	-126.608			
480	60	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
481	61	N24	94.266	339.845	30.785	-0.676	0.06	0.004
482	61	N21	30.591	301.972	-53.535	0.28	-0.054	-0.501
483	61	N27	86.059	383.118	28.668	0.407	-0.059	0.686
484	61	N137	27.567	786.947	-645.312	0	0	0
485	61	N140	562.854	802.633	346.293	0	0	0
486	61	N143	-548.121	760.748	293.101	0	0	0
487	61	Totals:	253.215	3375.264	0			
488	61	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
489	62	N24	80.587	350.877	50.071	-0.704	0.05	0.007
490	62	N21	13.777	299.209	-12.963	0.281	-0.024	-0.492
491	62	N27	90.957	374.803	64.65	0.4	-0.084	0.666
492	62	N137	25.152	772.967	-632.439	0	0	0
493	62	N140	562.183	806.443	354.478	0	0	0
494	62	N143	-553.371	770.966	302.811	0	0	0
495	62	Totals:	219.284	3375.264	126.608			
496	62	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
497	63	N24	46.556	359.136	64.636	-0.724	0.025	0.012
498	63	N21	-11.596	302.233	22.307	0.289	0.006	-0.497
499	63	N27	80.284	363.482	84.86	0.386	-0.094	0.641
500	63	N137	19.263	762.308	-622.654	0	0	0
501	63	N140	555.785	802.983	359.151	0	0	0
502	63	N143	-563.685	785.122	310.985	0	0	0
503	63	Totals:	126.607	3375.264	219.285			
504	63	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
505	64	N24	-0.114	259.419	60.723	-0.527	-0.006	0.013
506	64	N21	-33.214	213.108	52.738	0.209	0.035	-0.349
507	64	N27	46.945	242.17	82.159	0.256	-0.077	0.422
508	64	N137	7.794	520.181	-423.869	0	0	0
509	64	N140	381.873	557.551	255.848	0	0	0
510	64	N143	-403.285	561.789	225.617	0	0	0
511	64	Totals:	-0.001	2354.219	253.216			
512	64	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
513	65	N24	-44.492	256.821	56.452	-0.521	-0.038	0.018
514	65	N21	-54.838	223.966	53.013	0.223	0.043	-0.372
515	65	N27	17.112	233.914	60.253	0.242	-0.053	0.407
516	65	N137	0.198	523.092	-426.594	0	0	0
517	65	N140	370.239	543.988	251.016	0	0	0
518	65	N143	-414.828	572.437	225.145	0	0	0
519	65	Totals:	-126.609	2354.219	219.285			
520	65	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
521	66	N24	-76.084	249.046	43.115	-0.501	-0.06	0.021
522	66	N21	-65.155	234.757	32.968	0.235	0.036	-0.397
523	66	N27	-11.173	230.926	23.294	0.233	-0.02	0.404
524	66	N137	-5.173	532.623	-435.391	0	0	0
525	66	N140	360.498	530.326	242.741	0	0	0
526	66	N143	-422.199	576.541	219.881	0	0	0
527	66	Totals:	-219.286	2354.219	126.609			
528	66	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
529	67	N24	-86.43	238.178	24.281	-0.474	-0.067	0.022
530	67	N21	-61.405	242.591	-2.028	0.241	0.014	-0.416
531	67	N27	-30.334	234.004	-18.823	0.233	0.014	0.413
532	67	N137	-6.882	546.22	-447.903	0	0	0
533	67	N140	355.258	520.224	233.239	0	0	0
534	67	N143	-423.424	573.002	211.235	0	0	0
535	67	Totals:	-253.216	2354.219	0.001			
536	67	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
537	68	N24	-72.751	227.131	4.998	-0.447	-0.056	0.019
538	68	N21	-44.588	245.364	-42.598	0.239	-0.016	-0.424
539	68	N27	-35.233	242.326	-54.808	0.24	0.039	0.433
540	68	N137	-4.469	560.236	-460.778	0	0	0
541	68	N140	355.927	516.396	225.056	0	0	0
542	68	N143	-418.171	562.766	201.524	0	0	0
543	68	Totals:	-219.285	2354.219	-126.607			
544	68	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
545	69	N24	-38.72	218.864	-9.566	-0.426	-0.031	0.014
546	69	N21	-19.217	242.334	-77.87	0.231	-0.046	-0.42
547	69	N27	-24.561	253.663	-75.018	0.254	0.049	0.458
548	69	N137	1.42	570.916	-470.566	0	0	0
549	69	N140	362.322	519.867	220.384	0	0	0
550	69	N143	-407.852	548.575	193.351	0	0	0
551	69	Totals:	-126.608	2354.219	-219.284			
552	69	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
553	70	N24	6.551	215.588	-15.511	-0.418	0.001	0.008
554	70	N21	7.916	234.312	-98.397	0.218	-0.068	-0.404
555	70	N27	-1.178	264.981	-74.041	0.27	0.04	0.482
556	70	N137	9.207	575.404	-474.644	0	0	0
557	70	N140	372.733	529.706	220.475	0	0	0
558	70	N143	-395.229	534.228	188.904	0	0	0
559	70	Totals:	0	2354.219	-253.215			
560	70	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
561	71	N24	50.93	218.183	-11.239	-0.425	0.033	0.003
562	71	N21	29.538	223.45	-98.672	0.204	-0.076	-0.38
563	71	N27	28.654	273.244	-52.134	0.284	0.016	0.497
564	71	N137	16.804	572.496	-471.919	0	0	0
565	71	N140	384.369	543.275	225.304	0	0	0
566	71	N143	-383.687	523.571	189.376	0	0	0
567	71	Totals:	126.608	2354.219	-219.284			
568	71	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
569	72	N24	82.522	225.952	2.101	-0.444	0.055	0
570	72	N21	39.857	212.662	-78.628	0.193	-0.069	-0.356
571	72	N27	56.937	276.236	-15.174	0.293	-0.017	0.5
572	72	N137	22.176	562.974	-463.122	0	0	0
573	72	N140	394.111	556.934	233.578	0	0	0
574	72	N143	-376.318	519.462	194.638	0	0	0
575	72	Totals:	219.285	2354.219	-126.608			

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
576	72	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
577	73	N24	92.869	236.816	20.936	-0.471	0.062	0
578	73	N21	36.109	204.835	-43.631	0.187	-0.047	-0.337
579	73	N27	76.099	273.155	26.942	0.293	-0.051	0.49
580	73	N137	23.883	549.382	-450.61	0	0	0
581	73	N140	399.35	567.026	243.08	0	0	0
582	73	N143	-375.094	523.004	203.282	0	0	0
583	73	Totals:	253.216	2354.219	0			
584	73	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
585	74	N24	79.189	247.867	40.218	-0.499	0.051	0.002
586	74	N21	19.293	202.065	-3.06	0.188	-0.017	-0.329
587	74	N27	81	264.826	62.925	0.286	-0.076	0.47
588	74	N137	21.467	535.363	-437.734	0	0	0
589	74	N140	398.68	570.849	251.265	0	0	0
590	74	N143	-380.345	533.248	212.993	0	0	0
591	74	Totals:	219.285	2354.219	126.608			
592	74	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			
593	75	N24	45.157	256.141	54.78	-0.519	0.026	0.007
594	75	N21	-6.079	205.093	32.212	0.196	0.013	-0.333
595	75	N27	70.33	253.485	83.134	0.272	-0.086	0.445
596	75	N137	15.579	524.674	-427.947	0	0	0
597	75	N140	392.284	567.382	255.938	0	0	0
598	75	N143	-390.663	547.444	221.168	0	0	0
599	75	Totals:	126.607	2354.219	219.285			
600	75	COG (ft):	X: 0.097	Y: 1.044	Z: 0.014			

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

Member	Shape	Code	Check	Loc[ft]	LC	Shear	Check	Loc[ft]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
1	M1	L3X3X4	0.309	7	8	0.594	7	y	1	15745.952	46656	1.688	2.161	1	H2-1	
2	M2	L3X3X4	0.218	3.68	23	0.014	3.68	y	21	34541.636	46656	1.688	3.68	1.448	H2-1	
3	M3	LL3X3X4X0	0.055	3.833	49	0.017	0	z	8	77371.476	93312	6.48	4.911	1	H1-1b	
4	M23	L3X3X4	0.273	7	12	0.577	7	y	5	15745.952	46656	1.688	2.161	1	H2-1	
5	M24	L3X3X4	0.205	3.68	19	0.013	3.68	y	13	34541.636	46656	1.688	3.686	1.465	H2-1	
6	M25	LL3X3X4X0	0.054	3.833	50	0.015	0	z	12	77371.476	93312	6.48	4.911	1	H1-1b	
7	M45	L3X3X4	0.285	7	4	0.648	7	y	9	15745.952	46656	1.688	2.161	1	H2-1	
8	M46	L3X3X4	0.219	3.68	23	0.014	3.68	y	13	34541.636	46656	1.688	3.685	1.462	H2-1	
9	M47	LL3X3X4X0	0.046	3.833	16	0.015	0	z	4	77371.476	93312	6.48	4.418	1	H1-1b	
10	M13A	HSS4X4X4	0.218	0	2	0.061	0	z	3	139152.531	139518	16.181	16.181	1.153	H1-1b	
11	M14	HSS4.5X4.5X4	0.083	0	2	0.054	0.083	z	11	156914.624	158976	20.907	20.907	1.74	H1-1b	
12	M17A	HSS4X4X4	0.204	0	4	0.052	0	z	7	139152.531	139518	16.181	16.181	1.152	H1-1b	
13	M18	HSS4.5X4.5X4	0.078	0	4	0.051	0.083	z	9	156914.624	158976	20.907	20.907	1.73	H1-1b	
14	M21	HSS4X4X4	0.228	0	8	0.056	0	z	11	139152.531	139518	16.181	16.181	1.15	H1-1b	
15	M22	HSS4.5X4.5X4	0.089	0	8	0.053	0.083	z	7	156914.624	158976	20.907	20.907	1.722	H1-1b	
16	MP1A	PIPE 2.0	0.212	0.5	33	0.121	3.5		10	20866.733	32130	1.872	1.872	1	H1-1b	
17	MP2A	PIPE 2.0	0.237	0.5	33	0.063	1.938		24	20866.733	32130	1.872	1.872	1	H1-1b	
18	MP3A	PIPE 2.5	0.181	1.5	4	0.051	1.5		3	37773.818	50715	3.596	3.596	1	H1-1b	
19	MP4A	PIPE 2.0	0.196	0.5	16	0.076	3.5		14	20866.733	32130	1.872	1.872	1	H1-1b	
20	MP5A	PIPE 2.0	0.175	0.5	17	0.127	3.5		4	20866.733	32130	1.872	1.872	1	H1-1b	
21	MP1B	PIPE 2.0	0.187	0.563	13	0.119	3.5		2	20866.733	32130	1.872	1.872	1	H1-1b	
22	MP2B	PIPE 2.0	0.186	0.5	14	0.06	3.5		16	20866.733	32130	1.872	1.872	1	H1-1b	
23	MP3B	PIPE 2.5	0.183	1.5	21	0.051	1.5		9	37773.818	50715	3.596	3.596	1	H1-1b	
24	MP4B	PIPE 2.0	0.205	0.5	21	0.074	3.5		18	20866.733	32130	1.872	1.872	1	H1-1b	
25	MP5B	PIPE 2.0	0.184	0.563	21	0.123	3.5		8	20866.733	32130	1.872	1.872	1	H1-1b	
26	MP1C	PIPE 2.0	0.175	0.563	17	0.122	3.5		6	20866.733	32130	1.872	1.872	1	H1-1b	
27	MP2C	PIPE 2.0	0.171	0.5	17	0.063	3.5		20	20866.733	32130	1.872	1.872	1	H1-1b	

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

	Member	Shape	Code	Check	Loc[ft]	LC	Shear	Check	Loc[ft]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
28	MP3C	PIPE 2.5	0.184	1.5	13		0.058	1.5		2		37773.818	50715	3.596	3.596	1	H1-1b
29	MP4C	PIPE 2.0	0.241	0.5	24		0.081	3.5		22		20866.733	32130	1.872	1.872	1	H1-1b
30	MP5C	PIPE 2.0	0.218	0.563	13		0.126	3.5		12		20866.733	32130	1.872	1.872	1	H1-1b
31	M52	PIPE 2.5	0.306	3.255	18		0.12	9.375		14		14558.792	50715	3.596	3.596	1	H1-1b
32	M54	PIPE 2.5	0.316	3.255	22		0.118	9.375		18		14558.792	50715	3.596	3.596	1	H1-1b
33	M55	PIPE 2.5	0.325	3.255	14		0.13	9.375		22		14558.792	50715	3.596	3.596	1	H1-1b
34	M76	L3X3X4	0.288	0	6		0.034	2.977	y	12		38340.399	46656	1.688	3.756	1.5	H2-1
35	M79	L2.5X2.5X4	0.095	2.473	17		0.011	4.946	y	6		17356.597	38556	1.114	2.255	1.136	H2-1
36	M80	L2.5X2.5X4	0.097	2.473	21		0.01	4.946	z	8		17356.597	38556	1.114	2.255	1.136	H2-1
37	M81	L2.5X2.5X4	0.096	2.473	21		0.011	4.946	y	10		17356.597	38556	1.114	2.255	1.136	H2-1
38	M82	L2.5X2.5X4	0.096	2.473	13		0.011	4.946	z	12		17356.597	38556	1.114	2.255	1.136	H2-1
39	M83	L2.5X2.5X4	0.098	2.473	13		0.012	4.946	y	2		17356.597	38556	1.114	2.255	1.136	H2-1
40	M84	L2.5X2.5X4	0.096	2.473	17		0.01	4.946	z	4		17356.597	38556	1.114	2.255	1.136	H2-1
41	M80A	L3X3X4	0.336	0	2		0.035	2.977	y	8		38340.399	46656	1.688	3.756	1.5	H2-1
42	M83A	L3X3X4	0.3	0	10		0.034	2.977	y	4		38340.399	46656	1.688	3.756	1.5	H2-1

I. Mount-to-Tower Connection Check

Custom Orientation Required

No

Tower Connection Bolt Checks

Yes

Bolt Orientation

Parallel

Bolt Quantity per Reaction:

4

d_x (in) (Delta X of typ. bolt config. sketch) :

6

d_y (in) (Delta Y of typ. bolt config. sketch) :

6

Bolt Type:

A325N

Bolt Diameter (in):

0.625

Required Tensile Strength / bolt (kips):

3.5

Required Shear Strength / bolt (kips):

0.5

Tensile Capacity / bolt (kips):

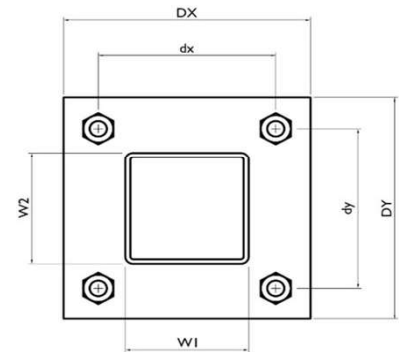
20.7

Shear Capacity / bolt (kips):

12.4

Bolt Overall Utilization:

16.8%



Tower Connection Baseplate Checks

Yes

Connecting Standoff Member Shape:

Rect Tube

Weld Stiffener Configuration:

No Stiffeners

Plate Width, D_x (in):

8

Plate Height, D_y (in):

8

W_1 (in):

4

W_2 (in):

4

Member Thickness (in):

0.25

Stiffener location a_1 (in):

Stiffener location b_1 (in):

Stiffener location a_2 (in):

Stiffener location b_2 (in):

F_y (ksi, plate):

36

Plate Thickness (in):

0.5

Length of Yield Line, L_y (in):

5.85

Bolt Eccentricity, e (in):

1.65

M_u (kip-in):

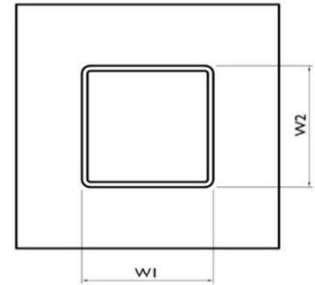
5.71

$\Phi * M_n$ (kip-in):

11.85

Plate Bending Utilization:

48.2%



Tower Connection Weld Checks

Weld Shape:
Weld Stiffener Configuration:
Stiffener Notch Length, n (in):
Weld Size (1/16 in):
W1 (in):
W2 (in):
Weld Total Length (in):
 Z_x (in³/in):
 Z_y (in³/in):
 J_p (in⁴/in):
 c_x (in):
 c_y (in):
Required combined strength (kip/in):
Weld Capacity (kip/in):
Weld Utilization:

Yes
Rectangle
None
4
4
4
16.00
21.33
21.33
85.33
2.25
2.25
1.36
5.57
24.4%

