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

April 1, 2024

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

RE: **Notice of Exempt Modification for Verizon Wireless: 5000232014**
Crown Site ID#842856
122 Jonathan Trumbull Highway, Andover, CT 06232
Latitude: 41° 45′ 0.46″ / Longitude: -72° 24′ 9.63″

Dear Ms. Bachman:

Verizon Wireless currently maintains twelve (12) antennas at the 130-foot mount on the existing 149-foot monopole tower located at 122 Jonathan Trumbull Highway, Andover, CT. The property is owned ASC Real Estate Inc, and the tower is owned by Crown Castle. Verizon now intends to add two (2) interference mitigation filters at the 130ft 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 Connecticut Siting Council Docket No. 242 on October 14, 2003

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Jeffrey J. Maguire, First Selectman, Town of Andover, Jim Hallisey, Zoning Agent, Town of Andover and ASC Real Estate Inc is the landowner. Crown Castle is the tower owner.

1. The proposed modifications will not result in an increase in the height of the existing tower.

2. The proposed modifications will not require the extension of the site boundary.

3. The proposed modification will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.

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

6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, 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: Jeffrey Barbadora.

Sincerely,

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

Attachments
cc:

Jeffrey J. Maguire, First Selectman
Town of Andover
17 School Road
Andover, CT 06232
860-742-4035

Jim Hallisey, Zoning Agent
Town of Andover
17 School Road
Andover, CT 06232
860-742-7305

ASC Real Estate Inc
PO BOX 122
Andover, CT 06232

Crown Castle - Tower Owner

Connecticut Siting Council
Decisions

DOCKET NO. 242 - AT&T Wireless PCS, LLC d/b/a AT&T Wireless application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a wireless telecommunications facility at one of two sites at 122 Route 6 (Andover Sportsmen Club), Andover, Connecticut.	Connecticut Siting Council
	October 14, 2003

Decision and Order

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a telecommunications facility including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate either alone or cumulatively with other effects when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes **§** 16-50k, be issued to AT&T Wireless PCS d/b/a AT&T Wireless for the construction, maintenance and operation of a wireless telecommunications facility at Site A at the Andover Sportsmen Club, 122 Route 6, Andover, Connecticut. The Council denies certification of Site B, also located at 122 Route 6, Andover, Connecticut.

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

1. The tower shall be constructed as a monopole, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of AT&T Wireless PCS, LLC and Omnipoint Holdings, Inc. d/b/a T-Mobile and other entities, both public and private, but such tower shall not exceed a height of 150 feet above ground level.

2. Panel antennas shall be installed on the monopole using a flush mount design.

3. Site preparation and construction activities shall occur during the time period of November 1 through March 31 to reduce potential impacts to populations of the Wood Turtle *(Clemmys insculpta)*, a State Species of Special Concern.

4. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be submitted to and approved by the Council prior to the commencement of facility construction and shall include:

    a. a detailed site development plan that depicts the location of the access road, compound, tower, utility line, erosion and sedimentation control features, and landscaping;

    b. specifications for the tower, tower foundation, antennas, equipment building, and security fence; and

    c. construction plans for site clearing, water drainage, and erosion and sedimentation control consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.

5. The Certificate Holder shall, prior to the commencement of operation, provide the Council worst-case modeling of electromagnetic radio frequency power density of all proposed entities' antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Certificate Holder shall ensure a recalculated report of electromagnetic radio frequency power density is submitted to the

Council if and when circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.

6. Upon the establishment of any new State or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.

7. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing. The Certificate Holder shall provide space on the tower for no compensation for any municipal antennas, provided such antennas are compatible with the structural integrity of the tower.

8. If the facility does not initially provide wireless services within one year of completion of construction or ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.

9. Any antenna that becomes obsolete and ceases to function shall be removed within 60 days after such antennas become obsolete and ceases to function.

10. Unless otherwise approved by the Council, this Decision and Order shall be void if the facility authorized herein is not operational within one year of the effective date of this Decision and Order or within one year after all appeals to this Decision and Order have been resolved.

Pursuant to General Statutes § 16-50p, we hereby direct that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in The Hartford Courant, Rivereast News Bulletin, and the Journal Inquirer.

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

The parties and intervenors to this proceeding are:

Applicant	**Its Representative**
AT&T Wireless PCS, LLC d/b/a AT&T Wireless	Christopher B. Fisher, Esq. Cuddy & Feder LLP 90 Maple Avenue White Plains, New York 10601 (914) 761-1300
Party	**Its Representative**
Tower Ventures II, LLC	Julie Donaldson Kohler, Esq. Hurwitz & Sagarin, LLC 147 N. Broad Street Milford, CT 06460 (203) 877-8000
Party	**Its Representative**
Town of Andover	First Selectman Andover Town Office Building 17 School Road, P.O. Box 328

Andover, CT 06232-0328
(860) 742-7305

Intervenor

Omnipoint Holdings, Inc.
d/b/a T-Mobile

Its Representative

Stephen J. Humes, Esq.
Diane W. Whitney, Esq.
LeBoeuf, Lamb, Greene & MacRae
Goodwin Square
225 Asylum Street
Hartford, CT 06103

Content Last Modified on 10/17/2003 4:34:53 PM

122 ROUTE 6

Location	122 ROUTE 6	**Mblu**	28/ 5/ 4/ /
Acct#	530	**Owner**	ASC REAL ESTATE INC
Assessment	$400,810	**Appraisal**	$634,200
PID	530	**Building Count**	2

Current Value

Appraisal

Valuation Year	Improvements	Land	Total
2021	$288,500	$345,700	$634,200

Assessment

Valuation Year	Improvements	Land	Total
2021	$201,950	$198,860	$400,810

Owner of Record

Owner	ASC REAL ESTATE INC	**Sale Price**	$0
Co-Owner	ANDOVER SPORTSMANS CLUB	**Certificate**	
Address	P O BOX 122 ANDOVER, CT 06232	**Book & Page**	0020/0572
		Sale Date	05/18/1967

Ownership History

Ownership History

Owner	Sale Price	Certificate	Book & Page	Sale Date
ASC REAL ESTATE INC	$0		0020/0572	05/18/1967

Building Information

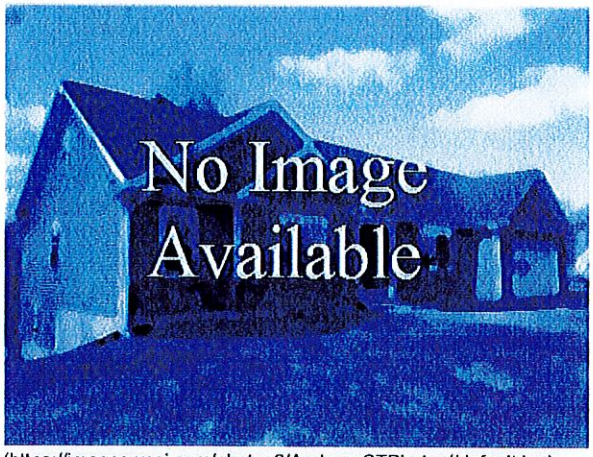
Building 1 : Section 1

Year Built:	1950
Living Area:	1,789
Replacement Cost:	$207,184
Building Percent Good:	67
Replacement Cost Less Depreciation:	$138,800

Building Attributes

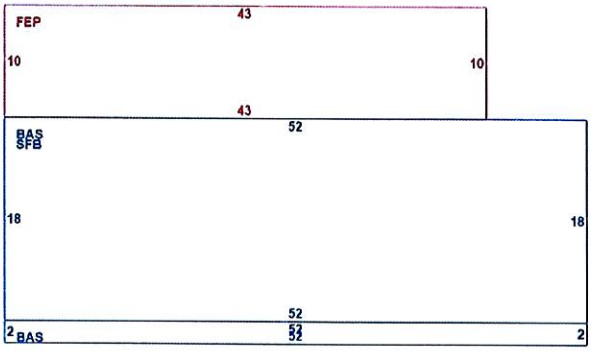
Field	Description
Style:	Clubs/Lodges
Model	Commercial
Grade	C
Stories:	1
Occupancy	1.00
Exterior Wall 1	Vinyl Siding
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Drywall/Sheet
Interior Wall 2	
Interior Floor 1	Vinyl/Asphalt
Interior Floor 2	
Heating Fuel	Gas
Heating Type	Hot Air-no Duc
AC Type	Central
Struct Class	
Bldg Use	Fratnl Org
Total Rooms	
Total Bedrms	00
Total Baths	2.5
1st Floor Use:	3530
Heat/AC	NONE
Frame Type	WOOD FRAME
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	8.00
% Comn Wall	0.00

Building Photo



(https://images.vgsi.com/photos2/AndoverCTPhotos//default.jpg)

Building Layout



(ParcelSketch.ashx?pid=530&bid=530)

Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	1,040	1,040
SFB	Base, Semi-Finished	936	749
FEP	Porch, Enclosed, Finished	430	0
		2,406	1,789

Building 2 : Section 1

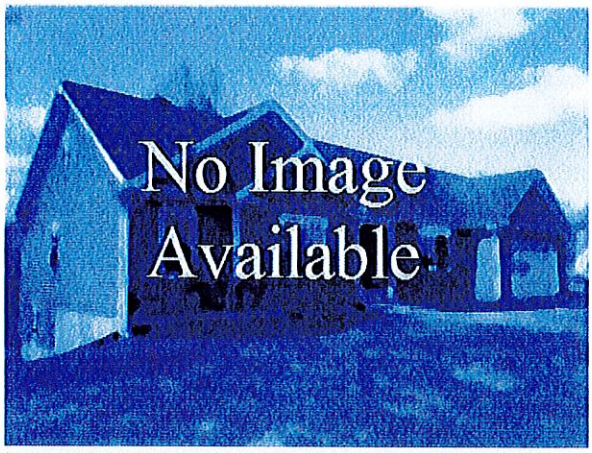
Year Built: 1990
Living Area: 896
Replacement Cost: $147,064
Building Percent Good: 77
Replacement Cost Less Depreciation: $113,200

Building Attributes : Bldg 2 of 2

Field	Description
Style:	Clubs/Lodges
Model	Commercial

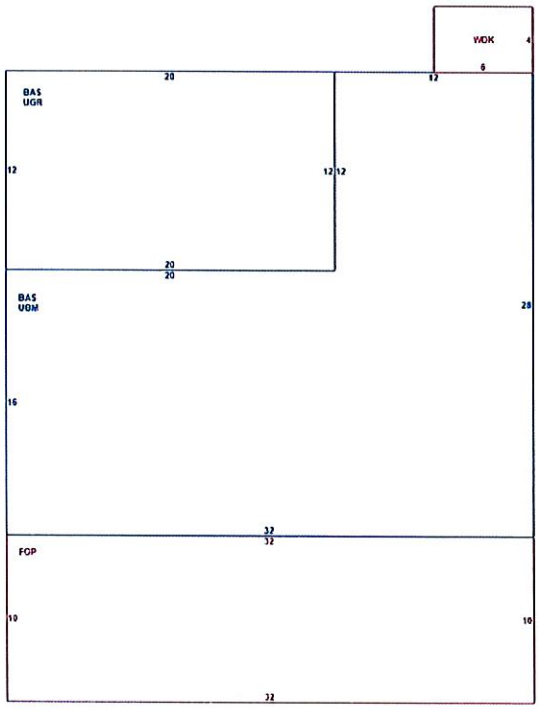
Grade	C
Stories:	1
Occupancy	
Exterior Wall 1	Vinyl Siding
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Drywall/Sheet
Interior Wall 2	
Interior Floor 1	Carpet
Interior Floor 2	
Heating Fuel	Solar Assisted
Heating Type	Hot Water
AC Type	Partial
Struct Class	
Bldg Use	Fratnl Org
Total Rooms	
Total Bedrms	00
Total Baths	2
1st Floor Use:	
Heat/AC	NONE
Frame Type	WOOD FRAME
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	8.00
% Comn Wall	

Building Photo



(https://images.vgsi.com/photos2/AndoverCTPhotos//default.jpg)

Building Layout



(ParcelSketch.ashx?pid=530&bid=1653)

Building Sub-Areas (sq ft) **Legend**

Code	Description	Gross Area	Living Area
BAS	First Floor	896	896
FOP	Porch, Open, Finished	320	0
UBM	Basement, Unfinished	656	0
UGR	Garage, Unfinished	240	0
WDK	Deck, Wood	24	0
		2,136	896

Extra Features

Extra Features — Legend

Code	Description	Size	Value	Bldg #
A/C	Air Condition	896.00 UNITS	$1,400	2

Land

Land Use

Use Code	3530
Description	Fratnl Org
Zone	ARD
Neighborhood	C1
Alt Land Appr	No
Category	

Land Line Valuation

Size (Acres)	67.13
Frontage	0
Depth	0
Assessed Value	$198,860
Appraised Value	$345,700

Outbuildings

Outbuildings — Legend

Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
FN3	Fence-6' Chain			290.00 L.F.	$2,000	1
SHD1	Shed Frame			320.00 S.F.	$2,900	2
LT4	Lights (4)			4.00 UNITS	$2,600	2
SHD5	Shed			64.00 S.F.	$900	1
LT1	Lights (1)			10.00 UNITS	$2,000	2
PAV1	Paving-Asphalt			1344.00 S.F.	$600	1
BRN8	Pole Barn			1540.00 S.F.	$5,400	1
SHD5	Shed			180.00 S.F.	$3,800	2
PAT1	Patio Av			360.00 S.F.	$500	2
SHD1	Shed Frame			100.00 S.F.	$600	1
SHD1	Shed Frame			360.00 S.F.	$2,200	1
PAV1	Paving-Asphalt			840.00 S.F.	$400	1
SHD1	Shed Frame			300.00 S.F.	$1,800	1
SHD1	Shed Frame			240.00 S.F.	$2,900	1
SHD1	Shed Frame			320.00 S.F.	$2,900	2
SHD1	Shed Frame			200.00 S.F.	$1,800	2
SHD1	Shed Frame			200.00 S.F.	$1,800	2

Valuation History

Appraisal

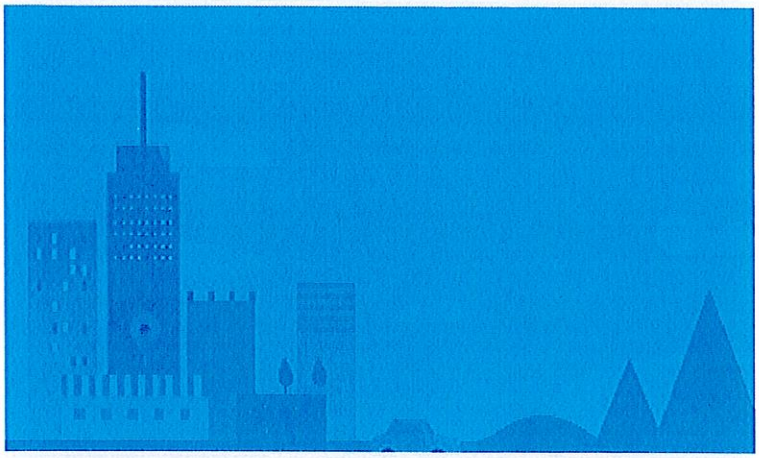
Valuation Year	Improvements	Land	Total
2021	$288,500	$345,700	$634,200
2020	$239,100	$347,700	$586,800
2015	$107,800	$334,000	$441,800

Assessment

Valuation Year	Improvements	Land	Total
2021	$201,950	$198,860	$400,810
2020	$167,500	$193,840	$361,340
2015	$138,200	$171,050	$309,250

122 US-6

Map data ©2024 Google 200 ft



122 US-6

Building

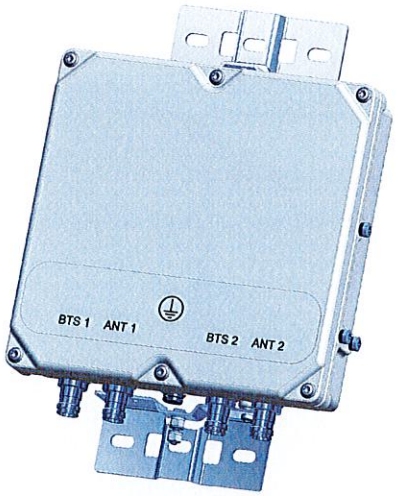
Directions Save Nearby Send to phone Share

122 US-6, Andover, CT 06232

BSF0020F3V1-1

TWIN BANDSTOP 900MHZ INTERFERENCE MITIGATION FILTER

The BSF0020 is ideal for co-located 700, 850 and 900 networks. Utilising a 2.6MHz guardband the BSF0020 provides rejection of the 900 UL band while passing 700/850 UL and DL bands. Capable of being used in an outdoor environment the BSF0020 contains two identical bandstop filters, suitable for 2x2 MIMO configuration, offering excellent insertion loss, group delay and rejection.



FEATURES

- Passes full 700 and 850 bands
- Low insertion loss
- Rejection of 900MHz uplink
- DC/AISG pass
- Twin unit
- Dual twin mounting available

TECHNICAL SPECIFICATIONS

BAND NAME	700 PATH / 850 UPLINK PATH	850 DOWNLINK PATH
Passband	698 - 849MHz	869 - 891.5MHz
Insertion loss	0.1dB typical / 0.3dB maximum	0.5dB typical, 1.45dB maximum
Return loss	24dB typical, 18dB minimum	
Maximum input power (Per Port)	100W average	200W average and 66W per 5MHz
Rejection	53dB minimum @ 894.1 - 896.5MHz	

ELECTRICAL	
Impedance	50Ohms
Intermodulation products	-160dBc maximum in UL Band (assuming 20MHz Signal), with 2 x 43dBm carriers -153dBc maximum with 2 x 43dBm

DC / AISG	
Passband	0 - 13MHz
Insertion loss	0.3dB maximum
Return loss	15dB minimum
Input voltage range	± 33V
DC current rating	2A continuous, 4A peak
Compliance	3GPP TS 25.461

ENVIRONMENTAL	
For further details of environmental compliance, please contact Kaelus.	
Temperature range	-20°C to +60°C | -4°F to +140°F
Ingress protection	IP67
Altitude	2600m | 8530ft
Lightning protection	RF port: ±5kA maximum (8/20us), IEC 61000-4-5 – Unit must be terminated with some lightning protection circuits.
MTBF	>1,000,000 hours
Compliance	ETSI EN 300 019 class 4.1H, RoHS, NEBS GR-487-CORE

MECHANICAL	
Dimensions H x D x W	269 x 277 x 80mm | 10.60 x 10.90 x 3.15in (Excluding brackets and connectors)
Weight	8.0 kg | 17.6 lbs (no bracket)
Finish	Powder coated, light grey (RAL7035)
Connectors	RF: 4.3-10 (F) x 4
Mounting	Optional pole/wall bracket supplied with two metal clamps 45-178mm diameter poles or custom bracket. See ordering information.

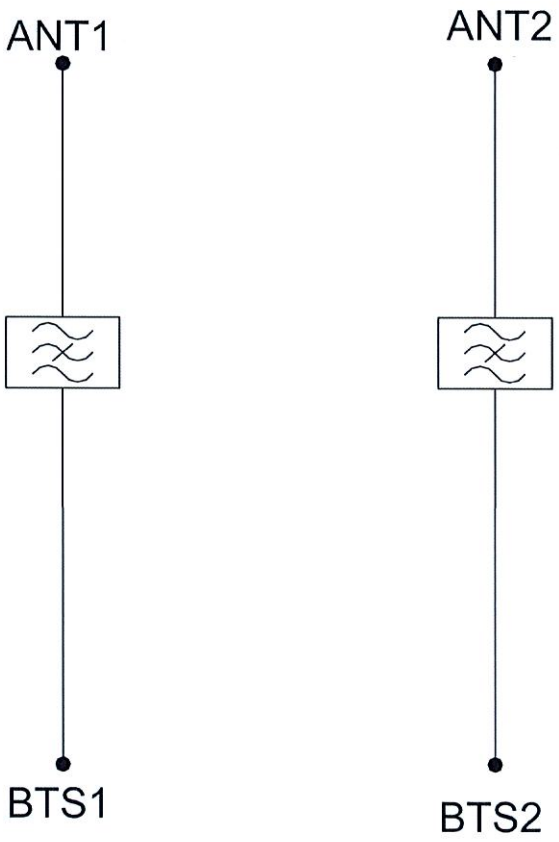
Contact Us: +1 303 768 8080 | +61 (0) 7 3907 1200 | www.kaelus.com

ORDERING INFORMATION

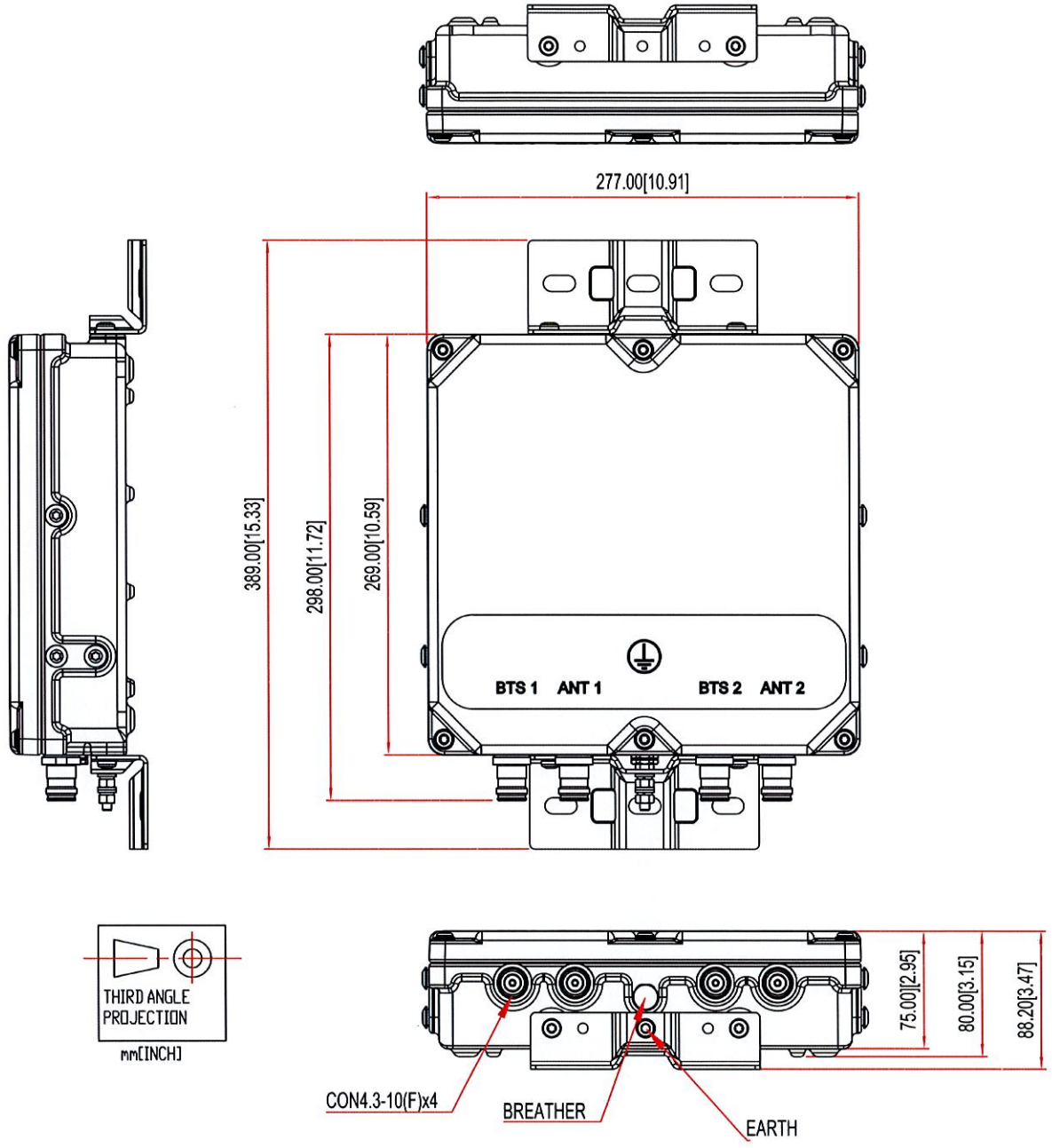
PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	CONNECTORS
BSF0020F3V1	TWIN, 2 in / 2 out	DC/AISG PASS NO BRACKET	4.3-10 (F)
BSF0020F3V1-1	TWIN, 2 in / 2 out	DC/AISG PASS	4.3-10 (F)
BSF0020F3V1-2	QUAD, 4 in / 4 out	DC/AISG PASS	4.3-10 (F)

Contact Us: +1 303 768 8080 | +61 (0) 7 3907 1200 | www.kaelus.com

ELECTRICAL BLOCK DIAGRAM



MECHANICAL BLOCK DIAGRAM



Barbadora, Jeff

From: TrackingUpdates@fedex.com
Sent: Wednesday, April 3, 2024 2:00 PM
To: Barbadora, Jeff
Subject: FedEx Shipment 775787637414: Your package has been delivered

Hi. Your package was delivered Wed, 04/03/2024 at 1:53pm.

Delivered to 17 SCHOOL RD, ANDOVER, CT 06232
Received by T.GONYEA

OBTAIN PROOF OF DELIVERY

How was your delivery ?

TRACKING NUMBER	775787637414
FROM	Crown Castle 1800 W. Park Drive WESTBOROUGH, MA, US, 01581
TO	Town of Andover Jeffrey J. Maguire, First Selectman 17 School Road ANDOVER, CT, US, 06232
REFERENCE	799001.7680
SHIPPER REFERENCE	799001.7680
SHIP DATE	Tue 4/02/2024 05:48 PM
DELIVERED TO	Receptionist/Front Desk
PACKAGING TYPE	FedEx Envelope
ORIGIN	WESTBOROUGH, MA, US, 01581
DESTINATION	ANDOVER, CT, US, 06232
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	0.50 LB
SERVICE TYPE	FedEx Standard Overnight

Barbadora, Jeff

From: TrackingUpdates@fedex.com
Sent: Wednesday, April 3, 2024 2:01 PM
To: Barbadora, Jeff
Subject: FedEx Shipment 775787658776: Your package has been delivered

Hi. Your package was delivered Wed, 04/03/2024 at 1:53pm.

Delivered to 17 SCHOOL RD, ANDOVER, CT 06232
Received by T.GONYEA

OBTAIN PROOF OF DELIVERY

How was your delivery ?

TRACKING NUMBER	775787658776
FROM	Crown Castle 1800 W. Park Drive WESTBOROUGH, MA, US, 01581
TO	Town of Andover Jin Hallisey, Zoning Agent 17 School Road ANDOVER, CT, US, 06232
REFERENCE	799001.7680
SHIPPER REFERENCE	799001.7680
SHIP DATE	Tue 4/02/2024 05:48 PM
DELIVERED TO	Receptionist/Front Desk
PACKAGING TYPE	FedEx Envelope
ORIGIN	WESTBOROUGH, MA, US, 01581
DESTINATION	ANDOVER, CT, US, 06232
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	0.50 LB
SERVICE TYPE	FedEx Standard Overnight

USPS Tracking®

FAQs >

Track Packages Anytime, Anywhere

Get the free Informed Delivery® feature to receive automated notifications on your packages

Learn More (https://reg.usps.com/xsell?app=UspsTools&ref=homepageBanner&appURL=https%3A%2F%2Finformeddelivery.usps.com/box/pages/intro/start.action)

Remove ×

Tracking Number:

EI945462033US

Copy Add to Informed Delivery (https://informeddelivery.usps.com/)

Latest Update

This is a reminder to pick up your item before April 9, 2024 or your item will be returned on April 10, 2024. Please pick up the item at the ANDOVER, CT 06232 Post Office.

Get More Out of USPS Tracking:

USPS Tracking Plus®

Delivery Attempt
Reminder to pick up your item before April 9, 2024
ANDOVER, CT 06232
April 8, 2024

Available for Pickup
ANDOVER
335 ROUTE 6
ANDOVER CT 06232-9998
M-F 0830-1630; SAT 0830-1200
April 5, 2024, 12:34 pm

See All Tracking History

What Do USPS Tracking Statuses Mean?
(https://faq.usps.com/s/article/Where-is-my-package)

Text & Email Updates ⌄

Proof of Delivery ⌄

USPS Tracking Plus® ⌄

Product Information ⌄

See Less ^

Track Another Package

Enter tracking or barcode numbers

Need More Help?

Contact USPS Tracking support for further assistance.

FAQs

Colliers Engineering & Design,
Architecture, Landscape Architecture,
Surveying, CT P.C.
1055 Washington Boulevard
Stamford, CT 06901
203.324.0800
peter.albano@collierseng.com

Antenna Mount Analysis Report with Hardware Upgrades and PMI Requirements

Mount Analysis

SMART Tool Project #: 10206341
Colliers Engineering & Design Project #: 23777092

October 17, 2023

Site Information	*Site ID:*	*5000232014-VZW / Coventry West CT - A*
	Site Name:	*Coventry West CT - A*
	Carrier Name:	*Verizon Wireless*
	Address:	*122 Jonathan Trumbull Highway* *Andover, Connecticut 06232* *Tolland County*
	Latitude:	*41.750128°*
	Longitude:	*-72.402675°*
Structure Information	*Tower Type:*	*150-Ft Monopole*
	Mount Type:	*5.00-Ft T-Frames*

FUZE ID # 17123891

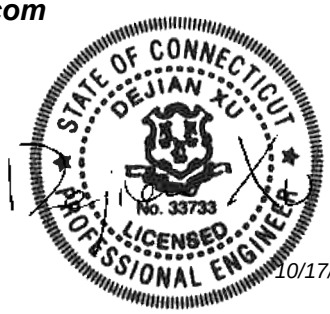
Analysis Results

T-Frames: **50.0% Pass w/ Hardware Upgrades***

*** 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: Cody Sherman



10/17/2023

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
Mount Mapping Report	*Onsight Services Project #: 5000232014, dated July 28, 2023*
Final Loading Configuration	*Filter Add Scope Provided by Verizon Wireless*

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:	0.982
Seismic Parameters:	S_S:	0.193 g
	S_1:	0.055 g
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Load, Lv:	250 lbs.
	Maintenance Load, Lm:	500 lbs.
Analysis Software:	RISA-3D (V17)	

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
128.00	129.00	12	Commscope	NHH-65B-R2B	Retained
		3	Samsung	RFV01U-D1A	
		3	Samsung	RFV01U-D2A	
		2	Raycap	RRFDC-3315-PF-48	
		4	KAelus	KA-6030	Added

The recent mount mapping reported existing OVP units. 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
Upper Face Horizontal	29.0 %	Pass
Lower Face Horizontal	31.0 %	Pass
Standoff Horizontal	34.0 %	Pass
Mount Pipe	39.0 %	Pass
Angle Bracing	6.0 %	Pass
OVP Pipe	50.0 %	Pass
Mount Connection	26.3 %	Pass

Structure Rating – ***(Controlling Utilization of all Components)***	**50.0%**

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	15.4	15.4	24.6	24.6
0.5	20.9	20.9	33.9	33.9
1	25.9	25.9	42.7	42.7

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 mounts will be **SUFFICIENT** for the final loading configuration shown in attachment 2 upon the completion of the requirements listed below.

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. Contractor shall inspect climbing facilities and safety climb and ensure they are in good condition. Contractor shall install safety climb wire rope guides in locations where wire rope is rubbing against the mount or mount-to-tower connection steel. Wire brush clean any observed corrosion and protect with two (2) coats of cold galvanization (Zinga or Zinc Kote). Contractor shall provide photos of wire rope guide installation as part of PMI documents. Contact EOR if additional guidance is 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, if required. Separate review fees will apply.

Attachments:

1. **Contractor Required Post Installation Inspection (PMI) Report Deliverables**
2. Antenna Placement Diagrams
3. Mount Photos
4. Mount Mapping Report (for reference only)
5. 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

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MDG #: 5000232014 SMART Project #: 10206341 Fuze Project ID: 17123891

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 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. Contractor shall inspect climbing facilities and safety climb and ensure they are in good condition. Contractor shall install safety climb wire rope guides in locations where wire rope is rubbing against the mount or mount-to-tower connection steel. Wire brush clean any observed corrosion and protect with two (2) coats of cold galvanization (Zinga or Zinc Kote). Contractor shall provide photos of wire rope guide installation as part of PMI documents. Contact EOR if additional guidance is required.

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

Certifying Individual:

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

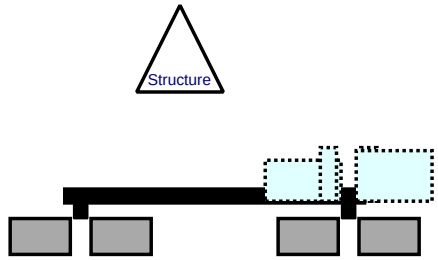
Structure: 5000232014-VZW - Coventry West CT - A

Sector: **A** 10/17/2023

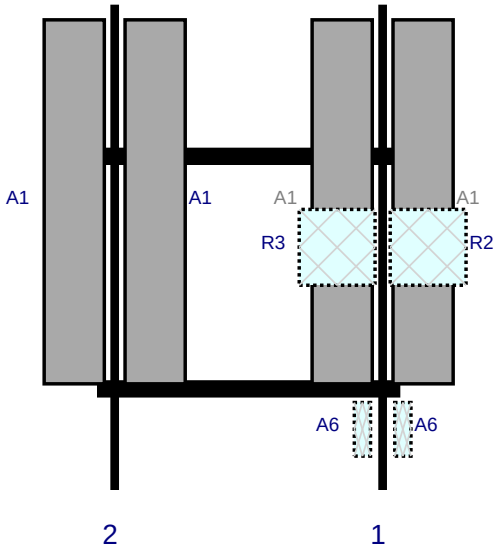
Structure Type: Monopole 10206341

Mount Elev: 128.00 Page: 1

Plan View

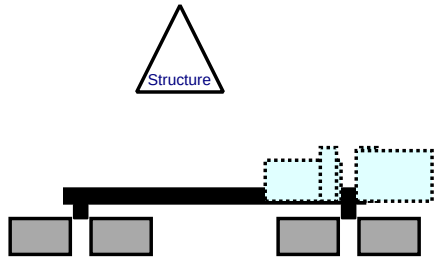


Front View - Looking at Structure

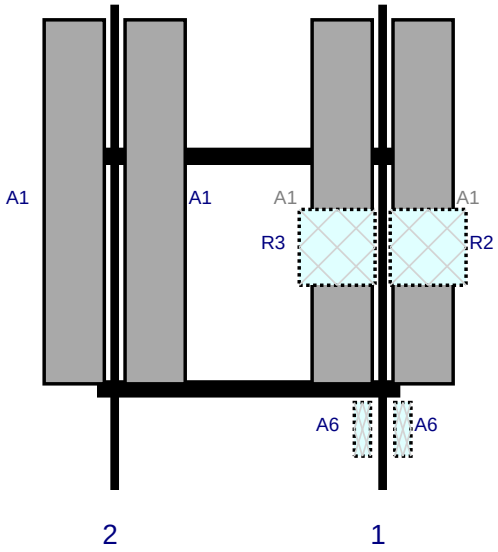


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A1	NHH-65B-R2B	72	11.9	56.5	1	a	Front	39	8	Retained	07/28/2023
A1	NHH-65B-R2B	72	11.9	56.5	1	b	Front	39	-8	Retained	07/28/2023
R2	RFV01U-D1A	15	15	56.5	1	a	Behind	48	9	Retained	07/28/2023
R3	RFV01U-D2A	15	15	56.5	1	a	Behind	48	-9	Retained	07/28/2023
A6	KA-6030	10.6	3.2	56.5	1	a	Behind	84	-4	Added	
A6	KA-6030	10.6	3.2	56.5	1	b	Behind	84	4	Added	
A1	NHH-65B-R2B	72	11.9	3.5	2	a	Front	39	8	Retained	07/28/2023
A1	NHH-65B-R2B	72	11.9	3.5	2	b	Front	39	-8	Retained	07/28/2023
OVP	RRFDC-3315-PF-48	29.5	16.5		Member					Retained	07/28/2023
ovp	RRFDC-3315-PF-48	29.5	16.5		Member					Retained	07/28/2023

Plan View

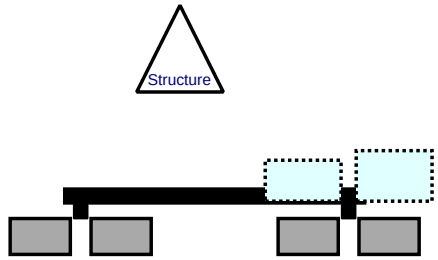


Front View - Looking at Structure

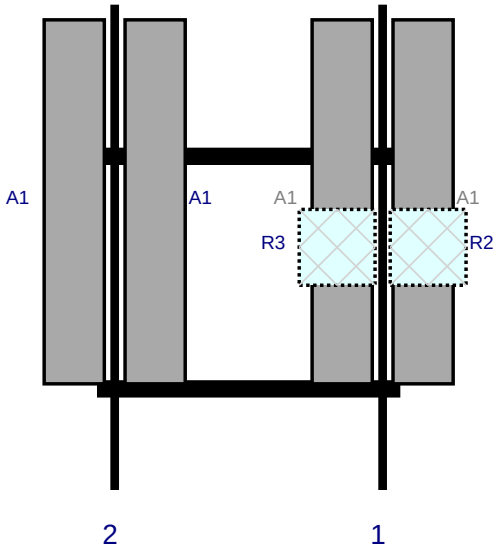


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A1	NHH-65B-R2B	72	11.9	56.5	1	a	Front	39	8	Retained	07/28/2023
A1	NHH-65B-R2B	72	11.9	56.5	1	b	Front	39	-8	Retained	07/28/2023
R2	RFV01U-D1A	15	15	56.5	1	a	Behind	48	9	Retained	07/28/2023
R3	RFV01U-D2A	15	15	56.5	1	a	Behind	48	-9	Retained	07/28/2023
A6	KA-6030	10.6	3.2	56.5	1	a	Behind	84	-4	Added	
A6	KA-6030	10.6	3.2	56.5	1	b	Behind	84	4	Added	
A1	NHH-65B-R2B	72	11.9	3.5	2	a	Front	39	8	Retained	07/28/2023
A1	NHH-65B-R2B	72	11.9	3.5	2	b	Front	39	-8	Retained	07/28/2023

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
A1	NHH-65B-R2B	72	11.9	56.5	1	a	Front	39	8	Retained	07/28/2023
A1	NHH-65B-R2B	72	11.9	56.5	1	b	Front	39	-8	Retained	07/28/2023
R2	RFV01U-D1A	15	15	56.5	1	a	Behind	48	9	Retained	07/28/2023
R3	RFV01U-D2A	15	15	56.5	1	a	Behind	48	-9	Retained	07/28/2023
A1	NHH-65B-R2B	72	11.9	3.5	2	a	Front	39	8	Retained	07/28/2023
A1	NHH-65B-R2B	72	11.9	3.5	2	b	Front	39	-8	Retained	07/28/2023

V4.1 Updated on 12-17-2021

Antenna Mount Mapping Form (PATENT PENDING)

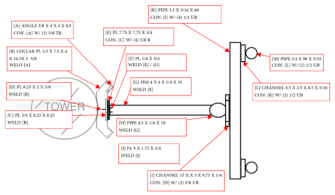
FCC #

Tower Owner:	CROWN CASTLE	**Mapping Date:**	7/28/1996
Site Name:	COVENTRY WEST CT	**Tower Type:**	MONOPOLE
Site Number or ID:	5000232014	**Tower Height (Ft.):**	150
Mapping Contractor:	ONSIGHT SERVICES	**Mount Elevation (Ft.):**	128

Site :

All measurements / offsets given in inches

TOP VIEW (bottom support pipe)



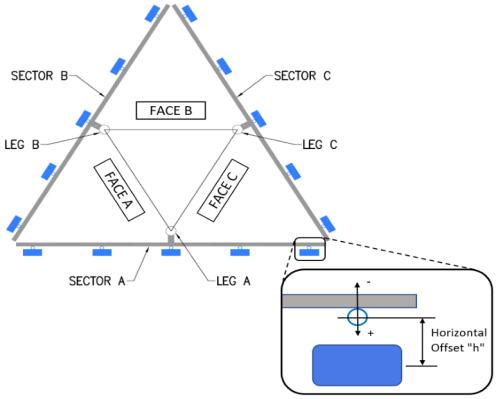
Mount Pipe Configuration and Geometries [Unit = Inches]

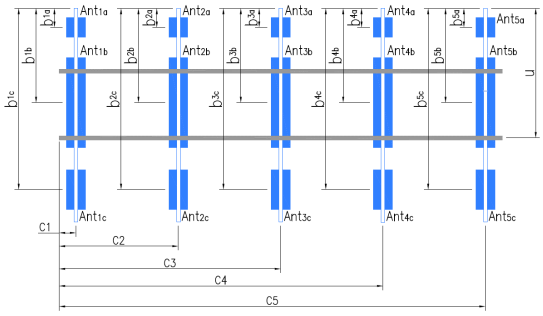
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	2.4 X 5/32 X 96	76.00	3.50	C1	2.4 X 5/32 X 96	76.00	3.50
A2	2.4 X 5/32 X 96	76.00	56.50	C2	2.4 X 5/32 X 96	76.00	56.50
A3				C3			
A4				C4			
A5				C5			
A6				C6			
B1	2.4 X 5/32 X 96	76.00	3.50	D1			
B2	2.4 X 5/32 X 96	76.00	56.50	D2			
B3				D3			
B4				D4			
B5				D5			
B6				D6			

Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :	9.5
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :	1.8

Please enter additional infomation or comments below.

Tower Face Width at Mount Elev. (ft.):		Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):	28.6



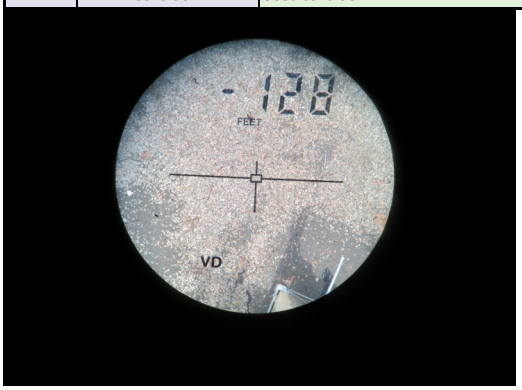


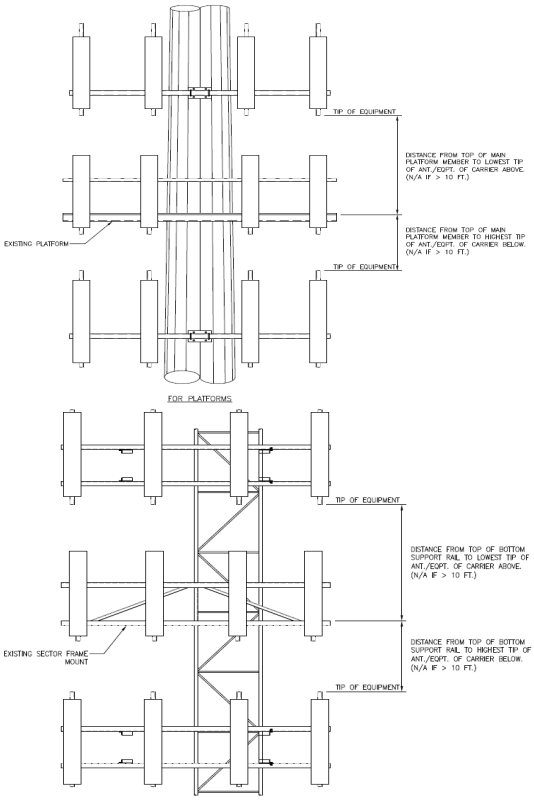
Antenna Layout (Looking Out From Tower)

Ants. Items	Enter antenna model. If not labeled, enter "Unknown". Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Mounting Locations [Units are inches and degrees] Vertical Distances"b_{1a}, b_{2a}, b_{3a}, b_{1b}...." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photos of antennas Photo Numbers
Sector A										
Ant_{1a}	COMMSCOPE NHH-65	12.00	7.50	62.00		129	34.00	8.00	0.00	43
Ant_{1b}	COMMSCOPE NHH-65	12.00	7.50	62.00		129	34.00	8.00	0.00	43
Ant_{1c}	RFV01UD1A	16.00	12.00	15.50		128	48.00	0.00		43
Ant_{2a}	COMMSCOPE NHH-65	12.00	7.50	62.00		129	34.00	8.00	0.00	44
Ant_{2b}	COMMSCOPE NHH-65	12.00	7.50	62.00		129	34.00	8.00	0.00	44
Ant_{2c}										
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}										
Ant_{4b}										
Ant_{4c}										
Ant_{5a}	RFV01UD2A	16.00	10.00	15.50		128	48.00	0.00		43
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Mount Azimuth (Degree) for Each Sector			Tower Leg Azimuth (Degree) for Each Sector		
Sector A:	330.00	Deg	Leg A:		Deg
Sector B:	90.00	Deg	Leg B:		Deg
Sector C:	210.00	Deg	Leg C:		Deg
Sector D:		Deg	Leg D:		Deg

Climbing Facility Information		
Location:	330.00 Deg	N/A
Climbing Facility	Corrosion Type:	Good condition.
	Access:	Climbing path was unobstructed.
	Condition:	Good condition.





Sector B										
Ant_{1a}	COMMSCOPE NHH-65	12.00	7.50	62.00		129	34.00	8.00	90.00	48
Ant_{1b}	COMMSCOPE NHH-65	12.00	7.50	62.00		129	34.00	8.00	90.00	48
Ant_{1c}	RFV01UD1A	16.00	12.00	15.50		128	48.00	0.00		48
Ant_{2a}	COMMSCOPE NHH-65	12.00	7.50	62.00		129	34.00	8.00	90.00	50
Ant_{2b}	COMMSCOPE NHH-65	12.00	7.50	62.00		129	34.00	8.00	90.00	50
Ant_{2c}										
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}										
Ant_{4b}										
Ant_{4c}										
Ant_{5a}	RFV01UD2A	16.00	10.00	15.50		128	48.00	0.00		48
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										
Sector C										
Ant_{1a}	COMMSCOPE NHH-65	12.00	7.50	62.00		129	34.00	8.00	210.00	55
Ant_{1b}	COMMSCOPE NHH-65	12.00	7.50	62.00		129	34.00	8.00	210.00	55
Ant_{1c}	RFV01UD1A	16.00	12.00	15.50		128	48.00	0.00		55
Ant_{2a}	COMMSCOPE NHH-65	12.00	7.50	62.00		129	34.00	8.00	210.00	57
Ant_{2b}	COMMSCOPE NHH-65	12.00	7.50	62.00		129	34.00	8.00	210.00	57
Ant_{2c}										
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}										
Ant_{4b}										
Ant_{4c}										
Ant_{5a}	RFV01UD2A	16.00	10.00	15.50		128	48.00	0.00		55
Ant_{5b}										
Ant_{5c}										
Ant on Standoff	RAYCAP RRFDC-3315-PF-48					129	9.00	7.00		55
Ant on Standoff	RAYCAP RRFDC-3315-PF-48					129	9.00	-7.00		55
Ant on Tower										
Ant on Tower										
Sector D										
Ant_{1a}										
Ant_{1b}										
Ant_{1c}										
Ant_{2a}										
Ant_{2b}										
Ant_{2c}										
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}										
Ant_{4b}										
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Observed Safety and Structural Issues During the Mount Mapping		
Issue #	Description of Issue	Photo #
1	DETACHED STIFFNER, FIXED ONSITE BY FINDING NUT AND REATTACHING AND THEN TIGHTENING	231 , 288
2	THE ANTENNAS ON PIPE 2 ARE SPARES	50, 49,56
3		
4		
5		
6		
7		
8		

Mapping Notes
1. Please report any visible structural or safety issues observed on the antenna mounts (Damaged members, loose connections, tilting mounts, safety climb issues, etc.)
2. If the thickness of the existing pipes or tubing can't be obtained from a general tool (such as Caliper), please use an ultrasonic measurement tool (thickness gauge) to measure the thickness.
3. Please create all required detail sketches of the mounts and insert them into the "Sketches" tab.
4. Please measure and enter the bolt sizes and types under the Members Box in the spreadsheet of the mount type.
5. Take and label the photos of the tower, mounts, connections, antennas and all measurements. Minimum 50 photos are required.
6. Please measure and report the size and length of all existing antenna mounting pipes.
7. Please measure and report the antenna information for all sectors.
8. Don't delete or rearrange any sheet or contents of any sheet from this mapping form.

Standard Conditions
1. Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping are to be reported in this mapping. However, this mount mapping is not a condition assessment of the mount.

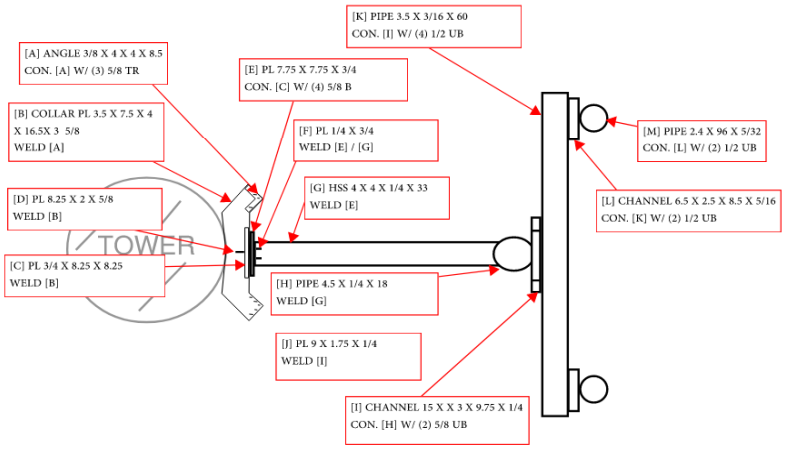
SMART Tool© Vendor	Antenna Mount Mapping Form (PATENT PENDING)			FCC #
	Tower Owner:	CROWN CASTLE	Mapping Date:	7/28/1996
	Site Name:	COVENTRY WEST CT	Tower Type:	MONOPOLE
	Site Number or ID:	5000232014	Tower Height (Ft.):	150
	Mapping Contractor:	ONSIGHT SERVICES	Mount Elevation (Ft.):	128

Please Insert Sketches of the Antenna Mount

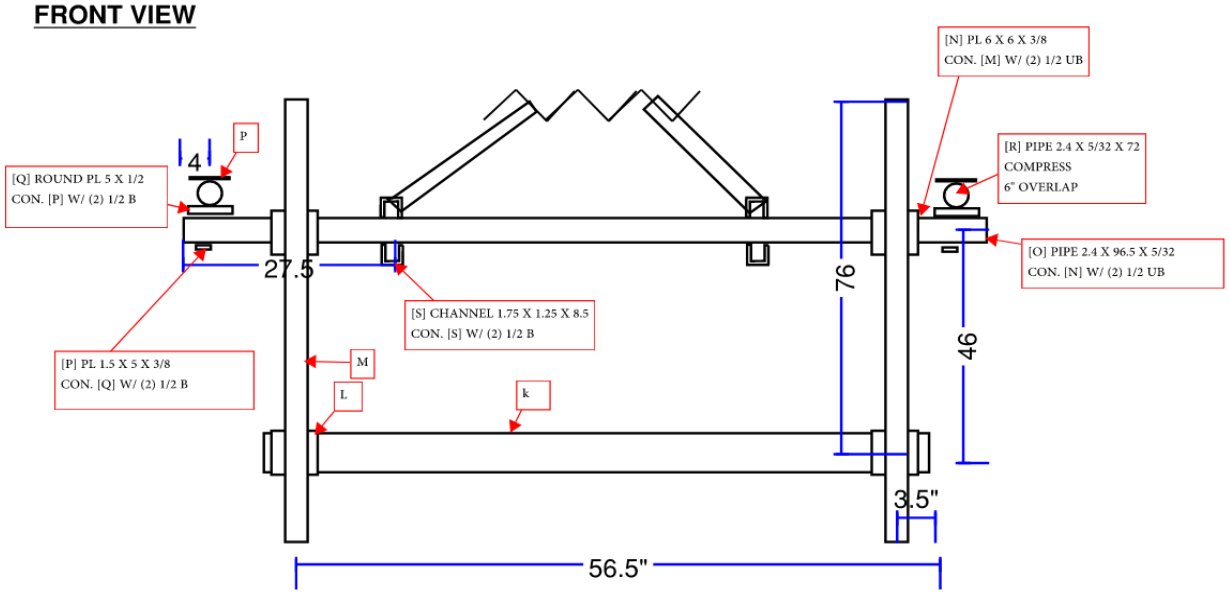
Site :

All measurements / offsets given in inches

TOP VIEW (bottom support pipe)

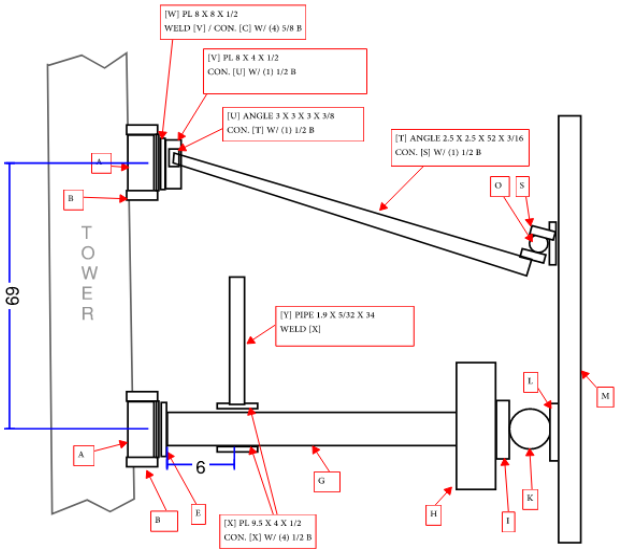


FRONT VIEW

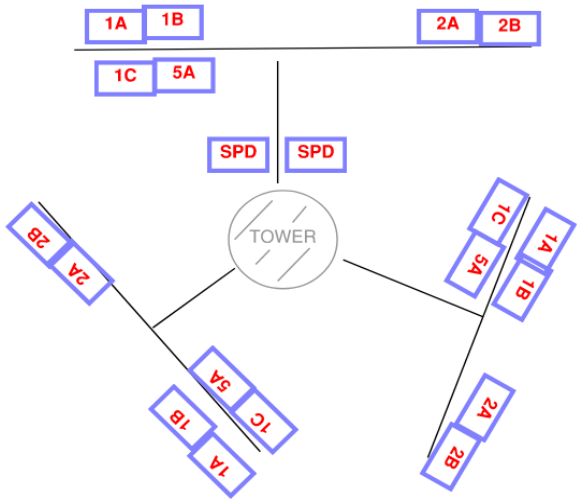


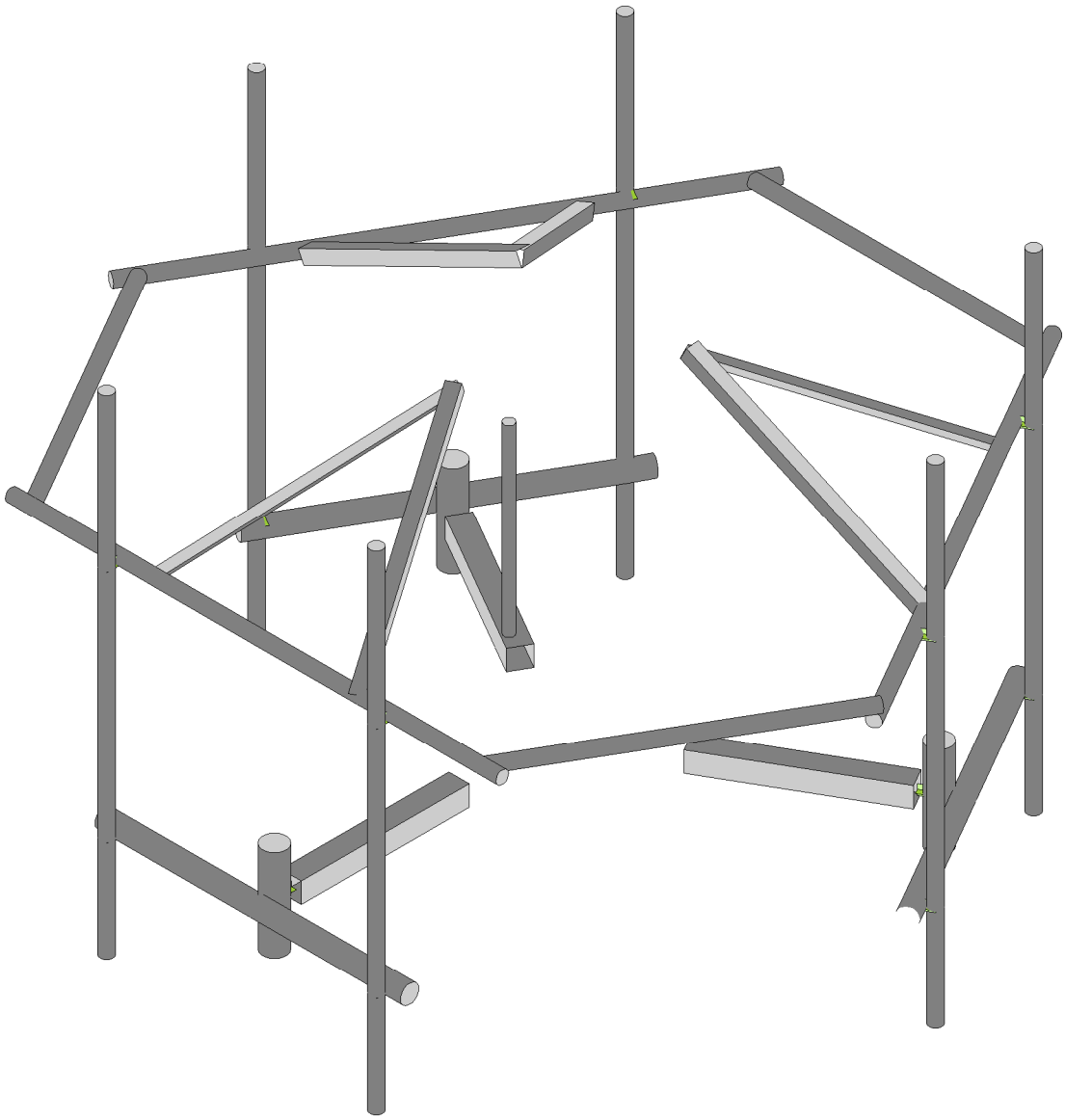
Please Insert Sketches of the Antenna Mount, cont'd

SIDE VIEW

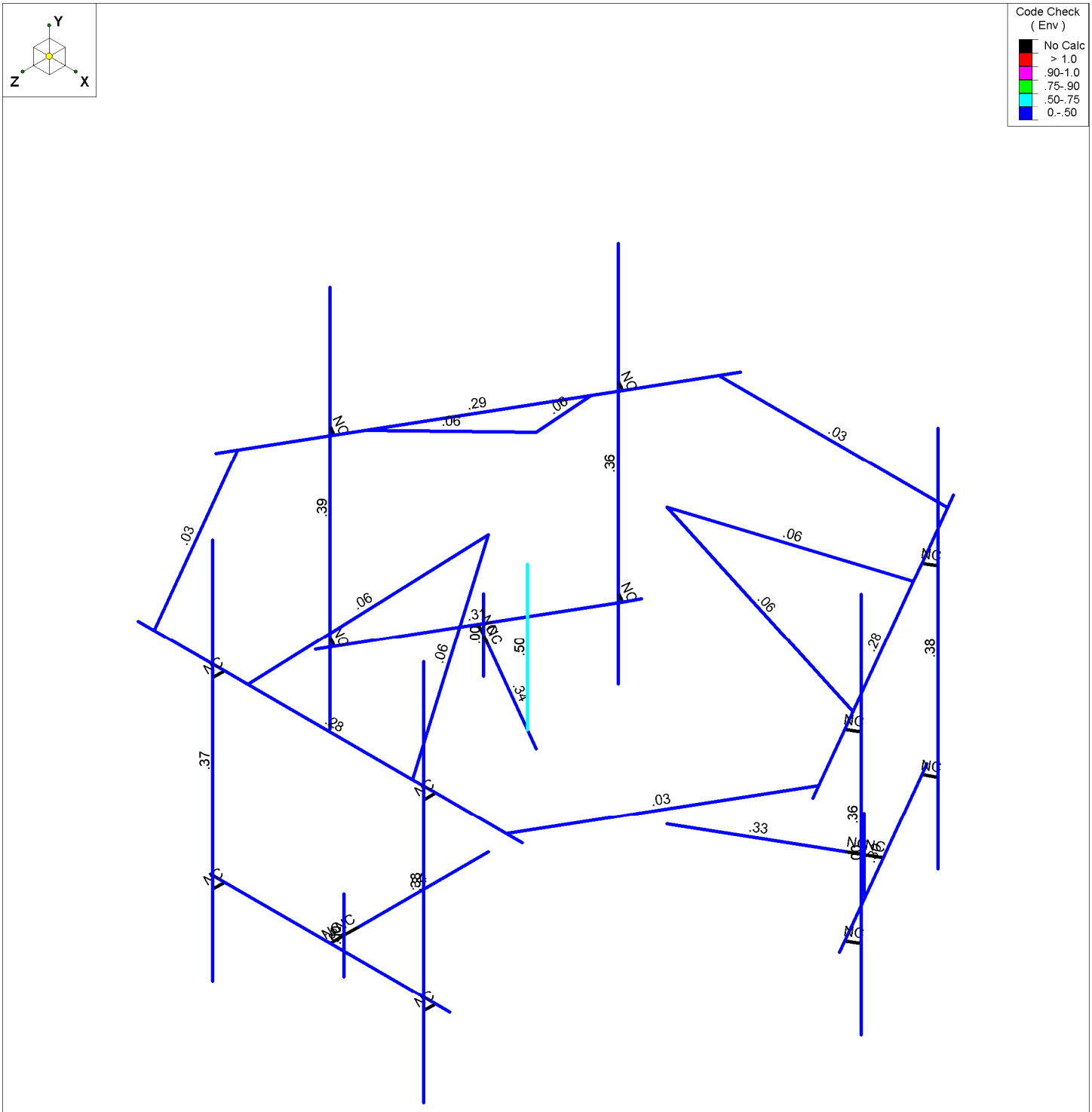


AZIMUTH



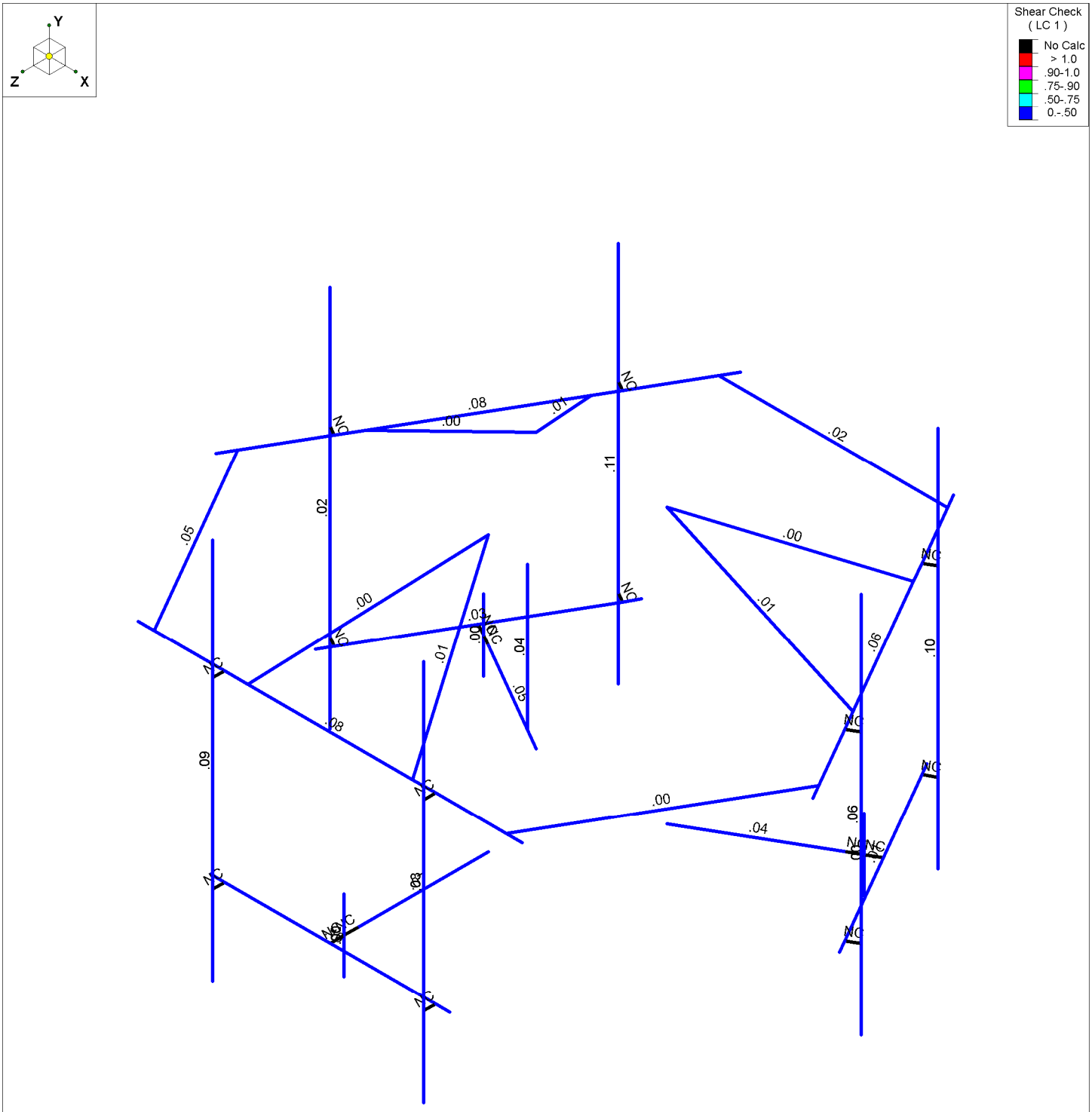


	5000232014-VZW_MT_LO_H	SK - 1
		Oct 17, 2023 at 1:13 PM
		5000232014-VZW_MT_LO_H.r3d



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

	5000232014-VZW_MT_LO_H	SK - 2
		Oct 17, 2023 at 1:17 PM
		5000232014-VZW_MT_LO_H.r3d



Member Shear Checks Displayed
Results for LC 1, 1.2D+1.0Wo (0 Deg)

	5000232014-VZW_MT_LO_H	SK - 3
		Oct 17, 2023 at 1:14 PM
		5000232014-VZW_MT_LO_H.r3d

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
1	Antenna D	None					120			
2	Antenna Di	None					120			
3	Antenna Wo (0 Deg)	None					120			
4	Antenna Wo (30 Deg)	None					120			
5	Antenna Wo (60 Deg)	None					120			
6	Antenna Wo (90 Deg)	None					120			
7	Antenna Wo (120 Deg)	None					120			
8	Antenna Wo (150 Deg)	None					120			
9	Antenna Wo (180 Deg)	None					120			
10	Antenna Wo (210 Deg)	None					120			
11	Antenna Wo (240 Deg)	None					120			
12	Antenna Wo (270 Deg)	None					120			
13	Antenna Wo (300 Deg)	None					120			
14	Antenna Wo (330 Deg)	None					120			
15	Antenna Wi (0 Deg)	None					120			
16	Antenna Wi (30 Deg)	None					120			
17	Antenna Wi (60 Deg)	None					120			
18	Antenna Wi (90 Deg)	None					120			
19	Antenna Wi (120 Deg)	None					120			
20	Antenna Wi (150 Deg)	None					120			
21	Antenna Wi (180 Deg)	None					120			
22	Antenna Wi (210 Deg)	None					120			
23	Antenna Wi (240 Deg)	None					120			
24	Antenna Wi (270 Deg)	None					120			
25	Antenna Wi (300 Deg)	None					120			
26	Antenna Wi (330 Deg)	None					120			
27	Antenna Wm (0 Deg)	None					120			
28	Antenna Wm (30 Deg)	None					120			
29	Antenna Wm (60 Deg)	None					120			
30	Antenna Wm (90 Deg)	None					120			
31	Antenna Wm (120 Deg)	None					120			
32	Antenna Wm (150 Deg)	None					120			
33	Antenna Wm (180 Deg)	None					120			
34	Antenna Wm (210 Deg)	None					120			
35	Antenna Wm (240 Deg)	None					120			
36	Antenna Wm (270 Deg)	None					120			
37	Antenna Wm (300 Deg)	None					120			
38	Antenna Wm (330 Deg)	None					120			
39	Structure D	None		-1						
40	Structure Di	None						28		
41	Structure Wo (0 Deg)	None						56		
42	Structure Wo (30 Deg)	None						56		
43	Structure Wo (60 Deg)	None						56		
44	Structure Wo (90 Deg)	None						56		
45	Structure Wo (120 D...	None						56		
46	Structure Wo (150 D...	None						56		
47	Structure Wo (180 D...	None						56		
48	Structure Wo (210 D...	None						56		
49	Structure Wo (240 D...	None						56		
50	Structure Wo (270 D...	None						56		
51	Structure Wo (300 D...	None						56		
52	Structure Wo (330 D...	None						56		
53	Structure Wi (0 Deg)	None						56		

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
54	Structure Wi (30 Deg)	None						56		
55	Structure Wi (60 Deg)	None						56		
56	Structure Wi (90 Deg)	None						56		
57	Structure Wi (120 De...	None						56		
58	Structure Wi (150 De...	None						56		
59	Structure Wi (180 De...	None						56		
60	Structure Wi (210 De...	None						56		
61	Structure Wi (240 De...	None						56		
62	Structure Wi (270 De...	None						56		
63	Structure Wi (300 De...	None						56		
64	Structure Wi (330 De...	None						56		
65	Structure Wm (0 Deg)	None						56		
66	Structure Wm (30 De...	None						56		
67	Structure Wm (60 De...	None						56		
68	Structure Wm (90 De...	None						56		
69	Structure Wm (120 D...	None						56		
70	Structure Wm (150 D...	None						56		
71	Structure Wm (180 D...	None						56		
72	Structure Wm (210 D...	None						56		
73	Structure Wm (240 D...	None						56		
74	Structure Wm (270 D...	None						56		
75	Structure Wm (300 D...	None						56		
76	Structure Wm (330 D...	None						56		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	Antenna Ev	None					120			
82	Antenna Eh (0 Deg)	None					80			
83	Antenna Eh (90 Deg)	None					80			
84	Structure Ev	ELY		-.041						
85	Structure Eh (0 Deg)	ELZ			-.103					
86	Structure Eh (90 Deg)	ELX	.103							

Load Combinations

	Description	Sol...	PDe...	S...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...
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 (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1								
14	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1								
15	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1								
16	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1								
17	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1								
18	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1								
19	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1								

Load Combinations (Continued)

	Description	Sol...	PDe...	S...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...
20	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1								
21	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1								
22	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1								
23	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1								
24	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1								
25	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1										
26	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1										
27	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1										
28	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1										
29	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1										
30	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1										
31	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1										
32	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1										
33	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1										
34	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1										
35	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1										
36	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1										
37	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1										
38	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1										
39	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1										
40	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1										
41	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1										
42	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1										
43	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1										
44	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1										
45	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1										
46	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1										
47	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1										
48	1.2D + 1.5Lm2 + 1.0...	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 ...	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 ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.866	83	.5	ELZ	.866	ELX	.5				
54	1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.5	83	.866	ELZ	.5	ELX	.866				
55	1.2D + 1.0Ev + 1.0Eh ...	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 ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	.866	ELZ	-.5	ELX	.866				
57	1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.866	83	.5	ELZ	-.866	ELX	.5				
58	1.2D + 1.0Ev + 1.0Eh ...	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 ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.866	83	-.5	ELZ	-.866	ELX	-.5				
60	1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	-.866	ELZ	-.5	ELX	-.866				
61	1.2D + 1.0Ev + 1.0Eh ...	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 ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.5	83	-.866	ELZ	.5	ELX	-.866				
63	1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.866	83	-.5	ELZ	.866	ELX	-.5				
64	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	1	83		ELZ	1	ELX					
65	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83	.5	ELZ	.866	ELX	.5				
66	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.5	83	.866	ELZ	.5	ELX	.866				
67	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82		83	1	ELZ		ELX	1				
68	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	.866	ELZ	-.5	ELX	.866				
69	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	.5	ELZ	-.866	ELX	.5				
70	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-1	83		ELZ	-1	ELX					
71	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	-.5	ELZ	-.866	ELX	-.5				
72	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	-.866	ELZ	-.5	ELX	-.866				
73	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82		83	-1	ELZ		ELX	-1				
74	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.5	83	-.866	ELZ	.5	ELX	-.866				
75	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83	-.5	ELZ	.866	ELX	-.5				

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	-2.5	0	4.895833	0	
2	N2	2.5	0	4.895833	0	
3	N3	-4.020833	3.833333	4.895833	0	
4	N4	4.020833	3.833333	4.895833	0	
5	N5	0	0	4.895833	0	
6	N7	0	0	4.604167	0	
7	N9	0	.75	4.604167	0	
8	N11	0	-.75	4.604167	0	
9	N13	0.	0	4.333333	0	
10	N15	-0.	0	1.583333	0	
11	N17	-2.208333	0	4.895833	0	
12	N18	-2.208333	3.833333	4.895833	0	
13	N19	-2.208333	0	5.145833	0	
14	N20	-2.208333	3.833333	5.145833	0	
15	N29	2.208333	0	4.895833	0	
16	N30	2.208333	3.833333	4.895833	0	
17	N31	2.208333	0	5.145833	0	
18	N32	2.208333	3.833333	5.145833	0	
19	N33	-2.208333	6.333333	5.145833	0	
20	N36	2.208333	6.333333	5.145833	0	
21	N37	-2.208333	-1.666667	5.145833	0	
22	N40	2.208333	-1.666667	5.145833	0	
23	N27	-0.	5.75	1.583333	0	
24	N28	-1.729167	3.833333	4.895833	0	
25	N29A	1.729167	3.833333	4.895833	0	
26	N30A	3.6875	3.833333	4.895833	0	
27	N31A	-1.80422	0	-1.041667	0	
28	N32A	-1.80422	3	-1.041667	0	
29	N29B	-0.	0	-0.	0	
30	N30B	5.489916	0	-0.282853	0	
31	N31B	2.989916	0	-4.61298	0	
32	N32B	6.250333	3.833333	1.034227	0	
33	N33A	2.229499	3.833333	-5.93006	0	
34	N34	4.239916	0	-2.447917	0	
35	N35	3.987325	0	-2.302083	0	
36	N36A	3.987325	.75	-2.302083	0	
37	N37A	3.987325	-.75	-2.302083	0	
38	N38	3.752777	0	-2.166667	0	
39	N39	1.371207	0	-0.791667	0	
40	N40A	5.344083	0	-0.535444	0	
41	N41	5.344083	3.833333	-0.535444	0	
42	N42	5.560589	0	-0.660444	0	
43	N43	5.560589	3.833333	-0.660444	0	
44	N44	3.135749	0	-4.360389	0	
45	N45	3.135749	3.833333	-4.360389	0	
46	N46	3.352256	0	-4.485389	0	
47	N47	3.352256	3.833333	-4.485389	0	
48	N48	5.560589	6.333333	-0.660444	0	
49	N49	3.352256	6.333333	-4.485389	0	
50	N50	5.560589	-1.666667	-0.660444	0	
51	N51	3.352256	-1.666667	-4.485389	0	
52	N52	1.371207	5.75	-0.791667	0	
53	N53	5.104499	3.833333	-0.950414	0	
54	N54	3.375333	3.833333	-3.945419	0	
55	N55	2.396166	3.833333	-5.641385	0	
56	N59	-2.989916	0	-4.61298	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
57	N60	-5.489916	0	-0.282853	0	
58	N61	-2.229499	3.833333	-5.93006	0	
59	N62	-6.250333	3.833333	1.034227	0	
60	N63	-4.239916	0	-2.447917	0	
61	N64	-3.987325	0	-2.302083	0	
62	N65	-3.987325	.75	-2.302083	0	
63	N66	-3.987325	-.75	-2.302083	0	
64	N67	-3.752777	0	-2.166667	0	
65	N68	-1.371207	0	-0.791667	0	
66	N69	-3.135749	0	-4.360389	0	
67	N70	-3.135749	3.833333	-4.360389	0	
68	N71	-3.352256	0	-4.485389	0	
69	N72	-3.352256	3.833333	-4.485389	0	
70	N73	-5.344083	0	-0.535444	0	
71	N74	-5.344083	3.833333	-0.535444	0	
72	N75	-5.560589	0	-0.660444	0	
73	N76	-5.560589	3.833333	-0.660444	0	
74	N77	-3.352256	6.333333	-4.485389	0	
75	N78	-5.560589	6.333333	-0.660444	0	
76	N79	-3.352256	-1.666667	-4.485389	0	
77	N80	-5.560589	-1.666667	-0.660444	0	
78	N81	-1.371207	5.75	-0.791667	0	
79	N82	-3.375333	3.833333	-3.945419	0	
80	N83	-5.104499	3.833333	-0.950414	0	
81	N84	-6.083666	3.833333	0.745552	0	
82	N86A	-3.6875	3.833333	4.895833	0	
83	N89	6.083666	3.833333	0.745552	0	
84	N92	-2.396166	3.833333	-5.641385	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Antenna Pipe	PIPE_2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Face Horizontal	HSS3.500X0.188	Beam	Pipe	A500 Gr. B ...	Typical	1.82	2.52	2.52	5.04
3	Mast Pipe	PIPE_4.0	Beam	Pipe	A53 Gr. B	Typical	2.96	6.82	6.82	13.6
4	Standoff Arm	HSS4X4X4	Beam	SquareTube	A500 Gr. B ...	Typical	3.37	7.8	7.8	12.8
5	Previous Mod Face	PIPE_2.0	Beam	SquareTube	A53 Gr. B	Typical	1.02	.627	.627	1.25
6	Previous Mod V	L2.5x2.5x3	Beam	Single Angle	A36 Gr.36	Typical	.901	.535	.535	.011
7	OVP Pipe	PIPE_1.5	Beam	Pipe	A53 Gr. B	Typical	.749	.293	.293	.586
8	Tieback	PIPE_2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25

Hot Rolled Steel Properties

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N3	N4			Previous Mod ...	Beam	SquareTube	A53 Gr. B	Typical
2	M2	N1	N2			Face Horizontal	Beam	Pipe	A500 Gr. ...	Typical
3	M4	N7	N5			RIGID	None	None	RIGID	Typical
4	M6	N9	N11			Mast Pipe	Beam	Pipe	A53 Gr. B	Typical
5	M8	N7	N13			RIGID	None	None	RIGID	Typical
6	M10	N13	N15			Standoff Arm	Beam	SquareTube	A500 Gr. ...	Typical
7	M11	N18	N20			RIGID	None	None	RIGID	Typical
8	M12	N17	N19			RIGID	None	None	RIGID	Typical
9	M17	N30	N32			RIGID	None	None	RIGID	Typical
10	M18	N29	N31			RIGID	None	None	RIGID	Typical
11	MP1A	N36	N40			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
12	MP2A	N33	N37			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
13	M15	N28	N27		90	Previous Mod V	Beam	Single Angle	A36 Gr.36	Typical
14	M16	N29A	N27		180	Previous Mod V	Beam	Single Angle	A36 Gr.36	Typical
15	OVP	N32A	N31A			OVP Pipe	Beam	Pipe	A53 Gr. B	Typical
16	M16A	N32B	N33A			Previous Mod ...	Beam	SquareTube	A53 Gr. B	Typical
17	M17A	N30B	N31B			Face Horizontal	Beam	Pipe	A500 Gr. ...	Typical
18	M18A	N35	N34			RIGID	None	None	RIGID	Typical
19	M19	N36A	N37A			Mast Pipe	Beam	Pipe	A53 Gr. B	Typical
20	M20	N35	N38			RIGID	None	None	RIGID	Typical
21	M21	N38	N39			Standoff Arm	Beam	SquareTube	A500 Gr. ...	Typical
22	M22	N41	N43			RIGID	None	None	RIGID	Typical
23	M23	N40A	N42			RIGID	None	None	RIGID	Typical
24	M24	N45	N47			RIGID	None	None	RIGID	Typical
25	M25	N44	N46			RIGID	None	None	RIGID	Typical
26	MP1C	N49	N51			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
27	MP2C	N48	N50			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
28	M28	N53	N52		90	Previous Mod V	Beam	Single Angle	A36 Gr.36	Typical
29	M29	N54	N52		180	Previous Mod V	Beam	Single Angle	A36 Gr.36	Typical
30	M31	N61	N62			Previous Mod ...	Beam	SquareTube	A53 Gr. B	Typical
31	M32	N59	N60			Face Horizontal	Beam	Pipe	A500 Gr. ...	Typical
32	M33	N64	N63			RIGID	None	None	RIGID	Typical
33	M34	N65	N66			Mast Pipe	Beam	Pipe	A53 Gr. B	Typical
34	M35	N64	N67			RIGID	None	None	RIGID	Typical
35	M36	N67	N68			Standoff Arm	Beam	SquareTube	A500 Gr. ...	Typical
36	M37	N70	N72			RIGID	None	None	RIGID	Typical
37	M38	N69	N71			RIGID	None	None	RIGID	Typical
38	M39	N74	N76			RIGID	None	None	RIGID	Typical
39	M40	N73	N75			RIGID	None	None	RIGID	Typical
40	MP1B	N78	N80			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
41	MP2B	N77	N79			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
42	M43	N82	N81		90	Previous Mod V	Beam	Single Angle	A36 Gr.36	Typical
43	M44	N83	N81		180	Previous Mod V	Beam	Single Angle	A36 Gr.36	Typical
44	M46	N84	N86A			Tieback	Beam	Pipe	A53 Gr. B	Typical
45	M47	N30A	N89			Tieback	Beam	Pipe	A53 Gr. B	Typical
46	M48	N55	N92			Tieback	Beam	Pipe	A53 Gr. B	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes	Default			None
2	M2						Yes	Default			None
3	M4		OOOOOO				Yes	** NA **			None
4	M6						Yes				None
5	M8						Yes	** NA **			None
6	M10						Yes	Default			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
7	M11						Yes	** NA **			None
8	M12						Yes	** NA **			None
9	M17						Yes	** NA **			None
10	M18						Yes	** NA **			None
11	MP1A						Yes				None
12	MP2A						Yes				None
13	M15	BenPIN	BenPIN				Yes				None
14	M16	BenPIN	BenPIN				Yes				None
15	OVP						Yes	Default			None
16	M16A						Yes	Default			None
17	M17A						Yes	Default			None
18	M18A		OOOOOO				Yes	** NA **			None
19	M19						Yes				None
20	M20						Yes	** NA **			None
21	M21						Yes	Default			None
22	M22						Yes	** NA **			None
23	M23						Yes	** NA **			None
24	M24						Yes	** NA **			None
25	M25						Yes	** NA **			None
26	MP1C						Yes				None
27	MP2C						Yes				None
28	M28	BenPIN	BenPIN				Yes				None
29	M29	BenPIN	BenPIN				Yes				None
30	M31						Yes	Default			None
31	M32						Yes	Default			None
32	M33		OOOOOO				Yes	** NA **			None
33	M34						Yes				None
34	M35						Yes	** NA **			None
35	M36						Yes	Default			None
36	M37						Yes	** NA **			None
37	M38						Yes	** NA **			None
38	M39						Yes	** NA **			None
39	M40						Yes	** NA **			None
40	MP1B						Yes				None
41	MP2B						Yes				None
42	M43	BenPIN	BenPIN				Yes				None
43	M44	BenPIN	BenPIN				Yes				None
44	M46	BenPIN	BenPIN				Yes				None
45	M47	BenPIN	BenPIN				Yes				None
46	M48	BenPIN	BenPIN				Yes				None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Y	-21.85	1.25
2	MP1A	My	-1.674e-5	1.25
3	MP1A	Mz	7.153e-6	1.25
4	MP1A	Y	-21.85	5.25
5	MP1A	My	-1.674e-5	5.25
6	MP1A	Mz	7.153e-6	5.25
7	MP1B	Y	-21.85	1.25
8	MP1B	My	-7.153e-6	1.25
9	MP1B	Mz	-1.674e-5	1.25
10	MP1B	Y	-21.85	5.25
11	MP1B	My	-7.153e-6	5.25
12	MP1B	Mz	-1.674e-5	5.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP1C	Y	-21.85	1.25
14	MP1C	My	1.808e-5	1.25
15	MP1C	Mz	2.178e-6	1.25
16	MP1C	Y	-21.85	5.25
17	MP1C	My	1.808e-5	5.25
18	MP1C	Mz	2.178e-6	5.25
19	MP1A	Y	-21.85	1.25
20	MP1A	My	-2.178e-6	1.25
21	MP1A	Mz	-1.808e-5	1.25
22	MP1A	Y	-21.85	5.25
23	MP1A	My	-2.178e-6	5.25
24	MP1A	Mz	-1.808e-5	5.25
25	MP1B	Y	-21.85	1.25
26	MP1B	My	1.808e-5	1.25
27	MP1B	Mz	-2.178e-6	1.25
28	MP1B	Y	-21.85	5.25
29	MP1B	My	1.808e-5	5.25
30	MP1B	Mz	-2.178e-6	5.25
31	MP1C	Y	-21.85	1.25
32	MP1C	My	-7.153e-6	1.25
33	MP1C	Mz	1.674e-5	1.25
34	MP1C	Y	-21.85	5.25
35	MP1C	My	-7.153e-6	5.25
36	MP1C	Mz	1.674e-5	5.25
37	MP2A	Y	-21.85	1.25
38	MP2A	My	-1.674e-5	1.25
39	MP2A	Mz	7.153e-6	1.25
40	MP2A	Y	-21.85	5.25
41	MP2A	My	-1.674e-5	5.25
42	MP2A	Mz	7.153e-6	5.25
43	MP2B	Y	-21.85	1.25
44	MP2B	My	-7.153e-6	1.25
45	MP2B	Mz	-1.674e-5	1.25
46	MP2B	Y	-21.85	5.25
47	MP2B	My	-7.153e-6	5.25
48	MP2B	Mz	-1.674e-5	5.25
49	MP2C	Y	-21.85	1.25
50	MP2C	My	1.808e-5	1.25
51	MP2C	Mz	2.178e-6	1.25
52	MP2C	Y	-21.85	5.25
53	MP2C	My	1.808e-5	5.25
54	MP2C	Mz	2.178e-6	5.25
55	MP2A	Y	-21.85	1.25
56	MP2A	My	-2.178e-6	1.25
57	MP2A	Mz	-1.808e-5	1.25
58	MP2A	Y	-21.85	5.25
59	MP2A	My	-2.178e-6	5.25
60	MP2A	Mz	-1.808e-5	5.25
61	MP2B	Y	-21.85	1.25
62	MP2B	My	1.808e-5	1.25
63	MP2B	Mz	-2.178e-6	1.25
64	MP2B	Y	-21.85	5.25
65	MP2B	My	1.808e-5	5.25
66	MP2B	Mz	-2.178e-6	5.25
67	MP2C	Y	-21.85	1.25
68	MP2C	My	-7.153e-6	1.25
69	MP2C	Mz	1.674e-5	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
70	MP2C	Y	-21.85	5.25
71	MP2C	My	-7.153e-6	5.25
72	MP2C	Mz	1.674e-5	5.25
73	MP1A	Y	-84.4	4
74	MP1A	My	-3.165e-5	4
75	MP1A	Mz	5.482e-5	4
76	MP1B	Y	-84.4	4
77	MP1B	My	-5.482e-5	4
78	MP1B	Mz	-3.165e-5	4
79	MP1C	Y	-84.4	4
80	MP1C	My	5.482e-5	4
81	MP1C	Mz	-3.165e-5	4
82	MP1A	Y	-70.3	4
83	MP1A	My	2.636e-5	4
84	MP1A	Mz	-4.566e-5	4
85	MP1B	Y	-70.3	4
86	MP1B	My	4.566e-5	4
87	MP1B	Mz	2.636e-5	4
88	MP1C	Y	-70.3	4
89	MP1C	My	-4.566e-5	4
90	MP1C	Mz	2.636e-5	4
91	OVP	Y	-32	.75
92	OVP	My	2.079e-5	.75
93	OVP	Mz	1.2e-5	.75
94	OVP	Y	-32	.75
95	OVP	My	-1.2e-5	.75
96	OVP	Mz	2.079e-5	.75
97	MP1A	Y	-8.8	6.5
98	MP1A	My	9.088e-6	6.5
99	MP1A	Mz	1.86e-6	6.5
100	MP1A	Y	-8.8	7.5
101	MP1A	My	9.088e-6	7.5
102	MP1A	Mz	1.86e-6	7.5
103	MP1B	Y	-8.8	6.5
104	MP1B	My	-1.86e-6	6.5
105	MP1B	Mz	9.088e-6	6.5
106	MP1B	Y	-8.8	7.5
107	MP1B	My	-1.86e-6	7.5
108	MP1B	Mz	9.088e-6	7.5
109	MP1A	Y	-8.8	6.5
110	MP1A	My	6.154e-6	6.5
111	MP1A	Mz	6.94e-6	6.5
112	MP1A	Y	-8.8	7.5
113	MP1A	My	6.154e-6	7.5
114	MP1A	Mz	6.94e-6	7.5
115	MP1B	Y	-8.8	6.5
116	MP1B	My	-6.94e-6	6.5
117	MP1B	Mz	6.154e-6	6.5
118	MP1B	Y	-8.8	7.5
119	MP1B	My	-6.94e-6	7.5
120	MP1B	Mz	6.154e-6	7.5

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Y	-94.87	1.25
2	MP1A	My	-7.27e-5	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
3	MP1A	Mz	3.106e-5	1.25
4	MP1A	Y	-94.87	5.25
5	MP1A	My	-7.27e-5	5.25
6	MP1A	Mz	3.106e-5	5.25
7	MP1B	Y	-94.87	1.25
8	MP1B	My	-3.106e-5	1.25
9	MP1B	Mz	-7.27e-5	1.25
10	MP1B	Y	-94.87	5.25
11	MP1B	My	-3.106e-5	5.25
12	MP1B	Mz	-7.27e-5	5.25
13	MP1C	Y	-94.87	1.25
14	MP1C	My	7.849e-5	1.25
15	MP1C	Mz	9.457e-6	1.25
16	MP1C	Y	-94.87	5.25
17	MP1C	My	7.849e-5	5.25
18	MP1C	Mz	9.457e-6	5.25
19	MP1A	Y	-94.87	1.25
20	MP1A	My	-9.457e-6	1.25
21	MP1A	Mz	-7.849e-5	1.25
22	MP1A	Y	-94.87	5.25
23	MP1A	My	-9.457e-6	5.25
24	MP1A	Mz	-7.849e-5	5.25
25	MP1B	Y	-94.87	1.25
26	MP1B	My	7.849e-5	1.25
27	MP1B	Mz	-9.457e-6	1.25
28	MP1B	Y	-94.87	5.25
29	MP1B	My	7.849e-5	5.25
30	MP1B	Mz	-9.457e-6	5.25
31	MP1C	Y	-94.87	1.25
32	MP1C	My	-3.106e-5	1.25
33	MP1C	Mz	7.27e-5	1.25
34	MP1C	Y	-94.87	5.25
35	MP1C	My	-3.106e-5	5.25
36	MP1C	Mz	7.27e-5	5.25
37	MP2A	Y	-94.87	1.25
38	MP2A	My	-7.27e-5	1.25
39	MP2A	Mz	3.106e-5	1.25
40	MP2A	Y	-94.87	5.25
41	MP2A	My	-7.27e-5	5.25
42	MP2A	Mz	3.106e-5	5.25
43	MP2B	Y	-94.87	1.25
44	MP2B	My	-3.106e-5	1.25
45	MP2B	Mz	-7.27e-5	1.25
46	MP2B	Y	-94.87	5.25
47	MP2B	My	-3.106e-5	5.25
48	MP2B	Mz	-7.27e-5	5.25
49	MP2C	Y	-94.87	1.25
50	MP2C	My	7.849e-5	1.25
51	MP2C	Mz	9.457e-6	1.25
52	MP2C	Y	-94.87	5.25
53	MP2C	My	7.849e-5	5.25
54	MP2C	Mz	9.457e-6	5.25
55	MP2A	Y	-94.87	1.25
56	MP2A	My	-9.457e-6	1.25
57	MP2A	Mz	-7.849e-5	1.25
58	MP2A	Y	-94.87	5.25
59	MP2A	My	-9.457e-6	5.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
60	MP2A	Mz	-7.849e-5	5.25
61	MP2B	Y	-94.87	1.25
62	MP2B	My	7.849e-5	1.25
63	MP2B	Mz	-9.457e-6	1.25
64	MP2B	Y	-94.87	5.25
65	MP2B	My	7.849e-5	5.25
66	MP2B	Mz	-9.457e-6	5.25
67	MP2C	Y	-94.87	1.25
68	MP2C	My	-3.106e-5	1.25
69	MP2C	Mz	7.27e-5	1.25
70	MP2C	Y	-94.87	5.25
71	MP2C	My	-3.106e-5	5.25
72	MP2C	Mz	7.27e-5	5.25
73	MP1A	Y	-71.156	4
74	MP1A	My	-2.668e-5	4
75	MP1A	Mz	4.622e-5	4
76	MP1B	Y	-71.156	4
77	MP1B	My	-4.622e-5	4
78	MP1B	Mz	-2.668e-5	4
79	MP1C	Y	-71.156	4
80	MP1C	My	4.622e-5	4
81	MP1C	Mz	-2.668e-5	4
82	MP1A	Y	-64.239	4
83	MP1A	My	2.409e-5	4
84	MP1A	Mz	-4.172e-5	4
85	MP1B	Y	-64.239	4
86	MP1B	My	4.172e-5	4
87	MP1B	Mz	2.409e-5	4
88	MP1C	Y	-64.239	4
89	MP1C	My	-4.172e-5	4
90	MP1C	Mz	2.409e-5	4
91	OVP	Y	-137.015	.75
92	OVP	My	8.899e-5	.75
93	OVP	Mz	5.138e-5	.75
94	OVP	Y	-137.015	.75
95	OVP	My	-5.138e-5	.75
96	OVP	Mz	8.899e-5	.75
97	MP1A	Y	3.3	6.5
98	MP1A	My	-3.408e-6	6.5
99	MP1A	Mz	-6.97e-7	6.5
100	MP1A	Y	3.3	7.5
101	MP1A	My	-3.408e-6	7.5
102	MP1A	Mz	-6.97e-7	7.5
103	MP1B	Y	3.3	6.5
104	MP1B	My	6.97e-7	6.5
105	MP1B	Mz	-3.408e-6	6.5
106	MP1B	Y	3.3	7.5
107	MP1B	My	6.97e-7	7.5
108	MP1B	Mz	-3.408e-6	7.5
109	MP1A	Y	3.3	6.5
110	MP1A	My	-2.308e-6	6.5
111	MP1A	Mz	-2.603e-6	6.5
112	MP1A	Y	3.3	7.5
113	MP1A	My	-2.308e-6	7.5
114	MP1A	Mz	-2.603e-6	7.5
115	MP1B	Y	3.3	6.5
116	MP1B	My	2.603e-6	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
117	MP1B	Mz	-2.308e-6	6.5
118	MP1B	Y	3.3	7.5
119	MP1B	My	2.603e-6	7.5
120	MP1B	Mz	-2.308e-6	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	1.25
2	MP1A	Z	-96.062	1.25
3	MP1A	Mx	-3.145e-5	1.25
4	MP1A	X	0	5.25
5	MP1A	Z	-96.062	5.25
6	MP1A	Mx	-3.145e-5	5.25
7	MP1B	X	0	1.25
8	MP1B	Z	-64.075	1.25
9	MP1B	Mx	4.91e-5	1.25
10	MP1B	X	0	5.25
11	MP1B	Z	-64.075	5.25
12	MP1B	Mx	4.91e-5	5.25
13	MP1C	X	0	1.25
14	MP1C	Z	-64.075	1.25
15	MP1C	Mx	-6.387e-6	1.25
16	MP1C	X	0	5.25
17	MP1C	Z	-64.075	5.25
18	MP1C	Mx	-6.387e-6	5.25
19	MP1A	X	0	1.25
20	MP1A	Z	-96.062	1.25
21	MP1A	Mx	7.948e-5	1.25
22	MP1A	X	0	5.25
23	MP1A	Z	-96.062	5.25
24	MP1A	Mx	7.948e-5	5.25
25	MP1B	X	0	1.25
26	MP1B	Z	-64.075	1.25
27	MP1B	Mx	6.387e-6	1.25
28	MP1B	X	0	5.25
29	MP1B	Z	-64.075	5.25
30	MP1B	Mx	6.387e-6	5.25
31	MP1C	X	0	1.25
32	MP1C	Z	-64.075	1.25
33	MP1C	Mx	-4.91e-5	1.25
34	MP1C	X	0	5.25
35	MP1C	Z	-64.075	5.25
36	MP1C	Mx	-4.91e-5	5.25
37	MP2A	X	0	1.25
38	MP2A	Z	-96.062	1.25
39	MP2A	Mx	-3.145e-5	1.25
40	MP2A	X	0	5.25
41	MP2A	Z	-96.062	5.25
42	MP2A	Mx	-3.145e-5	5.25
43	MP2B	X	0	1.25
44	MP2B	Z	-64.075	1.25
45	MP2B	Mx	4.91e-5	1.25
46	MP2B	X	0	5.25
47	MP2B	Z	-64.075	5.25
48	MP2B	Mx	4.91e-5	5.25
49	MP2C	X	0	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
50	MP2C	Z	-64.075	1.25
51	MP2C	Mx	-6.387e-6	1.25
52	MP2C	X	0	5.25
53	MP2C	Z	-64.075	5.25
54	MP2C	Mx	-6.387e-6	5.25
55	MP2A	X	0	1.25
56	MP2A	Z	-96.062	1.25
57	MP2A	Mx	7.948e-5	1.25
58	MP2A	X	0	5.25
59	MP2A	Z	-96.062	5.25
60	MP2A	Mx	7.948e-5	5.25
61	MP2B	X	0	1.25
62	MP2B	Z	-64.075	1.25
63	MP2B	Mx	6.387e-6	1.25
64	MP2B	X	0	5.25
65	MP2B	Z	-64.075	5.25
66	MP2B	Mx	6.387e-6	5.25
67	MP2C	X	0	1.25
68	MP2C	Z	-64.075	1.25
69	MP2C	Mx	-4.91e-5	1.25
70	MP2C	X	0	5.25
71	MP2C	Z	-64.075	5.25
72	MP2C	Mx	-4.91e-5	5.25
73	MP1A	X	0	4
74	MP1A	Z	-58.71	4
75	MP1A	Mx	-3.813e-5	4
76	MP1B	X	0	4
77	MP1B	Z	-48.186	4
78	MP1B	Mx	1.807e-5	4
79	MP1C	X	0	4
80	MP1C	Z	-48.186	4
81	MP1C	Mx	1.807e-5	4
82	MP1A	X	0	4
83	MP1A	Z	-56.75	4
84	MP1A	Mx	3.686e-5	4
85	MP1B	X	0	4
86	MP1B	Z	-42.304	4
87	MP1B	Mx	-1.586e-5	4
88	MP1C	X	0	4
89	MP1C	Z	-42.304	4
90	MP1C	Mx	-1.586e-5	4
91	OVP	X	0	.75
92	OVP	Z	-122.992	.75
93	OVP	Mx	-4.612e-5	.75
94	OVP	X	0	.75
95	OVP	Z	-107.308	.75
96	OVP	Mx	-6.97e-5	.75
97	MP1A	X	0	6.5
98	MP1A	Z	-19.689	6.5
99	MP1A	Mx	-4.161e-6	6.5
100	MP1A	X	0	7.5
101	MP1A	Z	-19.689	7.5
102	MP1A	Mx	-4.161e-6	7.5
103	MP1B	X	0	6.5
104	MP1B	Z	-19.444	6.5
105	MP1B	Mx	-2.008e-5	6.5
106	MP1B	X	0	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
107	MP1B	Z	-19.444	7.5
108	MP1B	Mx	-2.008e-5	7.5
109	MP1A	X	0	6.5
110	MP1A	Z	-19.689	6.5
111	MP1A	Mx	-1.553e-5	6.5
112	MP1A	X	0	7.5
113	MP1A	Z	-19.689	7.5
114	MP1A	Mx	-1.553e-5	7.5
115	MP1B	X	0	6.5
116	MP1B	Z	-19.444	6.5
117	MP1B	Mx	-1.36e-5	6.5
118	MP1B	X	0	7.5
119	MP1B	Z	-19.444	7.5
120	MP1B	Mx	-1.36e-5	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	56.027	1.25
2	MP1A	Z	-97.042	1.25
3	MP1A	Mx	-7.47e-5	1.25
4	MP1A	X	56.027	5.25
5	MP1A	Z	-97.042	5.25
6	MP1A	Mx	-7.47e-5	5.25
7	MP1B	X	24.041	1.25
8	MP1B	Z	-41.641	1.25
9	MP1B	Mx	2.404e-5	1.25
10	MP1B	X	24.041	5.25
11	MP1B	Z	-41.641	5.25
12	MP1B	Mx	2.404e-5	5.25
13	MP1C	X	48.031	1.25
14	MP1C	Z	-83.192	1.25
15	MP1C	Mx	3.145e-5	1.25
16	MP1C	X	48.031	5.25
17	MP1C	Z	-83.192	5.25
18	MP1C	Mx	3.145e-5	5.25
19	MP1A	X	56.027	1.25
20	MP1A	Z	-97.042	1.25
21	MP1A	Mx	7.47e-5	1.25
22	MP1A	X	56.027	5.25
23	MP1A	Z	-97.042	5.25
24	MP1A	Mx	7.47e-5	5.25
25	MP1B	X	24.041	1.25
26	MP1B	Z	-41.641	1.25
27	MP1B	Mx	2.404e-5	1.25
28	MP1B	X	24.041	5.25
29	MP1B	Z	-41.641	5.25
30	MP1B	Mx	2.404e-5	5.25
31	MP1C	X	48.031	1.25
32	MP1C	Z	-83.192	1.25
33	MP1C	Mx	-7.948e-5	1.25
34	MP1C	X	48.031	5.25
35	MP1C	Z	-83.192	5.25
36	MP1C	Mx	-7.948e-5	5.25
37	MP2A	X	56.027	1.25
38	MP2A	Z	-97.042	1.25
39	MP2A	Mx	-7.47e-5	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
40	MP2A	X	56.027	5.25
41	MP2A	Z	-97.042	5.25
42	MP2A	Mx	-7.47e-5	5.25
43	MP2B	X	24.041	1.25
44	MP2B	Z	-41.641	1.25
45	MP2B	Mx	2.404e-5	1.25
46	MP2B	X	24.041	5.25
47	MP2B	Z	-41.641	5.25
48	MP2B	Mx	2.404e-5	5.25
49	MP2C	X	48.031	1.25
50	MP2C	Z	-83.192	1.25
51	MP2C	Mx	3.145e-5	1.25
52	MP2C	X	48.031	5.25
53	MP2C	Z	-83.192	5.25
54	MP2C	Mx	3.145e-5	5.25
55	MP2A	X	56.027	1.25
56	MP2A	Z	-97.042	1.25
57	MP2A	Mx	7.47e-5	1.25
58	MP2A	X	56.027	5.25
59	MP2A	Z	-97.042	5.25
60	MP2A	Mx	7.47e-5	5.25
61	MP2B	X	24.041	1.25
62	MP2B	Z	-41.641	1.25
63	MP2B	Mx	2.404e-5	1.25
64	MP2B	X	24.041	5.25
65	MP2B	Z	-41.641	5.25
66	MP2B	Mx	2.404e-5	5.25
67	MP2C	X	48.031	1.25
68	MP2C	Z	-83.192	1.25
69	MP2C	Mx	-7.948e-5	1.25
70	MP2C	X	48.031	5.25
71	MP2C	Z	-83.192	5.25
72	MP2C	Mx	-7.948e-5	5.25
73	MP1A	X	31.986	4
74	MP1A	Z	-55.402	4
75	MP1A	Mx	-4.798e-5	4
76	MP1B	X	21.462	4
77	MP1B	Z	-37.173	4
78	MP1B	Mx	0	4
79	MP1C	X	29.355	4
80	MP1C	Z	-50.844	4
81	MP1C	Mx	3.813e-5	4
82	MP1A	X	31.986	4
83	MP1A	Z	-55.402	4
84	MP1A	Mx	4.798e-5	4
85	MP1B	X	17.541	4
86	MP1B	Z	-30.382	4
87	MP1B	Mx	0	4
88	MP1C	X	28.375	4
89	MP1C	Z	-49.147	4
90	MP1C	Mx	-3.686e-5	4
91	OVP	X	65.417	.75
92	OVP	Z	-113.305	.75
93	OVP	Mx	0	.75
94	OVP	X	49.733	.75
95	OVP	Z	-86.141	.75
96	OVP	Mx	-7.46e-5	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
97	MP1A	X	9.905	6.5
98	MP1A	Z	-17.157	6.5
99	MP1A	Mx	6.603e-6	6.5
100	MP1A	X	9.905	7.5
101	MP1A	Z	-17.157	7.5
102	MP1A	Mx	6.603e-6	7.5
103	MP1B	X	9.661	6.5
104	MP1B	Z	-16.734	6.5
105	MP1B	Mx	-1.932e-5	6.5
106	MP1B	X	9.661	7.5
107	MP1B	Z	-16.734	7.5
108	MP1B	Mx	-1.932e-5	7.5
109	MP1A	X	9.905	6.5
110	MP1A	Z	-17.157	6.5
111	MP1A	Mx	-6.604e-6	6.5
112	MP1A	X	9.905	7.5
113	MP1A	Z	-17.157	7.5
114	MP1A	Mx	-6.604e-6	7.5
115	MP1B	X	9.661	6.5
116	MP1B	Z	-16.734	6.5
117	MP1B	Mx	-1.932e-5	6.5
118	MP1B	X	9.661	7.5
119	MP1B	Z	-16.734	7.5
120	MP1B	Mx	-1.932e-5	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	83.192	1.25
2	MP1A	Z	-48.031	1.25
3	MP1A	Mx	-7.948e-5	1.25
4	MP1A	X	83.192	5.25
5	MP1A	Z	-48.031	5.25
6	MP1A	Mx	-7.948e-5	5.25
7	MP1B	X	55.491	1.25
8	MP1B	Z	-32.038	1.25
9	MP1B	Mx	6.387e-6	1.25
10	MP1B	X	55.491	5.25
11	MP1B	Z	-32.038	5.25
12	MP1B	Mx	6.387e-6	5.25
13	MP1C	X	97.042	1.25
14	MP1C	Z	-56.027	1.25
15	MP1C	Mx	7.47e-5	1.25
16	MP1C	X	97.042	5.25
17	MP1C	Z	-56.027	5.25
18	MP1C	Mx	7.47e-5	5.25
19	MP1A	X	83.192	1.25
20	MP1A	Z	-48.031	1.25
21	MP1A	Mx	3.145e-5	1.25
22	MP1A	X	83.192	5.25
23	MP1A	Z	-48.031	5.25
24	MP1A	Mx	3.145e-5	5.25
25	MP1B	X	55.491	1.25
26	MP1B	Z	-32.038	1.25
27	MP1B	Mx	4.91e-5	1.25
28	MP1B	X	55.491	5.25
29	MP1B	Z	-32.038	5.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP1B	Mx	4.91e-5	5.25
31	MP1C	X	97.042	1.25
32	MP1C	Z	-56.027	1.25
33	MP1C	Mx	-7.47e-5	1.25
34	MP1C	X	97.042	5.25
35	MP1C	Z	-56.027	5.25
36	MP1C	Mx	-7.47e-5	5.25
37	MP2A	X	83.192	1.25
38	MP2A	Z	-48.031	1.25
39	MP2A	Mx	-7.948e-5	1.25
40	MP2A	X	83.192	5.25
41	MP2A	Z	-48.031	5.25
42	MP2A	Mx	-7.948e-5	5.25
43	MP2B	X	55.491	1.25
44	MP2B	Z	-32.038	1.25
45	MP2B	Mx	6.387e-6	1.25
46	MP2B	X	55.491	5.25
47	MP2B	Z	-32.038	5.25
48	MP2B	Mx	6.387e-6	5.25
49	MP2C	X	97.042	1.25
50	MP2C	Z	-56.027	1.25
51	MP2C	Mx	7.47e-5	1.25
52	MP2C	X	97.042	5.25
53	MP2C	Z	-56.027	5.25
54	MP2C	Mx	7.47e-5	5.25
55	MP2A	X	83.192	1.25
56	MP2A	Z	-48.031	1.25
57	MP2A	Mx	3.145e-5	1.25
58	MP2A	X	83.192	5.25
59	MP2A	Z	-48.031	5.25
60	MP2A	Mx	3.145e-5	5.25
61	MP2B	X	55.491	1.25
62	MP2B	Z	-32.038	1.25
63	MP2B	Mx	4.91e-5	1.25
64	MP2B	X	55.491	5.25
65	MP2B	Z	-32.038	5.25
66	MP2B	Mx	4.91e-5	5.25
67	MP2C	X	97.042	1.25
68	MP2C	Z	-56.027	1.25
69	MP2C	Mx	-7.47e-5	1.25
70	MP2C	X	97.042	5.25
71	MP2C	Z	-56.027	5.25
72	MP2C	Mx	-7.47e-5	5.25
73	MP1A	X	50.844	4
74	MP1A	Z	-29.355	4
75	MP1A	Mx	-3.813e-5	4
76	MP1B	X	41.73	4
77	MP1B	Z	-24.093	4
78	MP1B	Mx	-1.807e-5	4
79	MP1C	X	55.402	4
80	MP1C	Z	-31.986	4
81	MP1C	Mx	4.798e-5	4
82	MP1A	X	49.147	4
83	MP1A	Z	-28.375	4
84	MP1A	Mx	3.686e-5	4
85	MP1B	X	36.637	4
86	MP1B	Z	-21.152	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
87	MP1B	Mx	1.586e-5	4
88	MP1C	X	55.402	4
89	MP1C	Z	-31.986	4
90	MP1C	Mx	-4.798e-5	4
91	OVP	X	106.514	.75
92	OVP	Z	-61.496	.75
93	OVP	Mx	4.612e-5	.75
94	OVP	X	92.932	.75
95	OVP	Z	-53.654	.75
96	OVP	Mx	-6.97e-5	.75
97	MP1A	X	17.051	6.5
98	MP1A	Z	-9.844	6.5
99	MP1A	Mx	1.553e-5	6.5
100	MP1A	X	17.051	7.5
101	MP1A	Z	-9.844	7.5
102	MP1A	Mx	1.553e-5	7.5
103	MP1B	X	16.839	6.5
104	MP1B	Z	-9.722	6.5
105	MP1B	Mx	-1.36e-5	6.5
106	MP1B	X	16.839	7.5
107	MP1B	Z	-9.722	7.5
108	MP1B	Mx	-1.36e-5	7.5
109	MP1A	X	17.051	6.5
110	MP1A	Z	-9.844	6.5
111	MP1A	Mx	4.161e-6	6.5
112	MP1A	X	17.051	7.5
113	MP1A	Z	-9.844	7.5
114	MP1A	Mx	4.161e-6	7.5
115	MP1B	X	16.839	6.5
116	MP1B	Z	-9.722	6.5
117	MP1B	Mx	-2.008e-5	6.5
118	MP1B	X	16.839	7.5
119	MP1B	Z	-9.722	7.5
120	MP1B	Mx	-2.008e-5	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	64.075	1.25
2	MP1A	Z	0	1.25
3	MP1A	Mx	-4.91e-5	1.25
4	MP1A	X	64.075	5.25
5	MP1A	Z	0	5.25
6	MP1A	Mx	-4.91e-5	5.25
7	MP1B	X	96.062	1.25
8	MP1B	Z	0	1.25
9	MP1B	Mx	-3.145e-5	1.25
10	MP1B	X	96.062	5.25
11	MP1B	Z	0	5.25
12	MP1B	Mx	-3.145e-5	5.25
13	MP1C	X	96.062	1.25
14	MP1C	Z	0	1.25
15	MP1C	Mx	7.948e-5	1.25
16	MP1C	X	96.062	5.25
17	MP1C	Z	0	5.25
18	MP1C	Mx	7.948e-5	5.25
19	MP1A	X	64.075	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
20	MP1A	Z	0	1.25
21	MP1A	Mx	-6.387e-6	1.25
22	MP1A	X	64.075	5.25
23	MP1A	Z	0	5.25
24	MP1A	Mx	-6.387e-6	5.25
25	MP1B	X	96.062	1.25
26	MP1B	Z	0	1.25
27	MP1B	Mx	7.948e-5	1.25
28	MP1B	X	96.062	5.25
29	MP1B	Z	0	5.25
30	MP1B	Mx	7.948e-5	5.25
31	MP1C	X	96.062	1.25
32	MP1C	Z	0	1.25
33	MP1C	Mx	-3.145e-5	1.25
34	MP1C	X	96.062	5.25
35	MP1C	Z	0	5.25
36	MP1C	Mx	-3.145e-5	5.25
37	MP2A	X	64.075	1.25
38	MP2A	Z	0	1.25
39	MP2A	Mx	-4.91e-5	1.25
40	MP2A	X	64.075	5.25
41	MP2A	Z	0	5.25
42	MP2A	Mx	-4.91e-5	5.25
43	MP2B	X	96.062	1.25
44	MP2B	Z	0	1.25
45	MP2B	Mx	-3.145e-5	1.25
46	MP2B	X	96.062	5.25
47	MP2B	Z	0	5.25
48	MP2B	Mx	-3.145e-5	5.25
49	MP2C	X	96.062	1.25
50	MP2C	Z	0	1.25
51	MP2C	Mx	7.948e-5	1.25
52	MP2C	X	96.062	5.25
53	MP2C	Z	0	5.25
54	MP2C	Mx	7.948e-5	5.25
55	MP2A	X	64.075	1.25
56	MP2A	Z	0	1.25
57	MP2A	Mx	-6.387e-6	1.25
58	MP2A	X	64.075	5.25
59	MP2A	Z	0	5.25
60	MP2A	Mx	-6.387e-6	5.25
61	MP2B	X	96.062	1.25
62	MP2B	Z	0	1.25
63	MP2B	Mx	7.948e-5	1.25
64	MP2B	X	96.062	5.25
65	MP2B	Z	0	5.25
66	MP2B	Mx	7.948e-5	5.25
67	MP2C	X	96.062	1.25
68	MP2C	Z	0	1.25
69	MP2C	Mx	-3.145e-5	1.25
70	MP2C	X	96.062	5.25
71	MP2C	Z	0	5.25
72	MP2C	Mx	-3.145e-5	5.25
73	MP1A	X	48.186	4
74	MP1A	Z	0	4
75	MP1A	Mx	-1.807e-5	4
76	MP1B	X	58.71	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
77	MP1B	Z	0	4
78	MP1B	Mx	-3.813e-5	4
79	MP1C	X	58.71	4
80	MP1C	Z	0	4
81	MP1C	Mx	3.813e-5	4
82	MP1A	X	42.304	4
83	MP1A	Z	0	4
84	MP1A	Mx	1.586e-5	4
85	MP1B	X	56.75	4
86	MP1B	Z	0	4
87	MP1B	Mx	3.686e-5	4
88	MP1C	X	56.75	4
89	MP1C	Z	0	4
90	MP1C	Mx	-3.686e-5	4
91	OVP	X	107.308	.75
92	OVP	Z	0	.75
93	OVP	Mx	6.97e-5	.75
94	OVP	X	122.992	.75
95	OVP	Z	0	.75
96	OVP	Mx	-4.612e-5	.75
97	MP1A	X	19.444	6.5
98	MP1A	Z	0	6.5
99	MP1A	Mx	2.008e-5	6.5
100	MP1A	X	19.444	7.5
101	MP1A	Z	0	7.5
102	MP1A	Mx	2.008e-5	7.5
103	MP1B	X	19.689	6.5
104	MP1B	Z	0	6.5
105	MP1B	Mx	-4.161e-6	6.5
106	MP1B	X	19.689	7.5
107	MP1B	Z	0	7.5
108	MP1B	Mx	-4.161e-6	7.5
109	MP1A	X	19.444	6.5
110	MP1A	Z	0	6.5
111	MP1A	Mx	1.36e-5	6.5
112	MP1A	X	19.444	7.5
113	MP1A	Z	0	7.5
114	MP1A	Mx	1.36e-5	7.5
115	MP1B	X	19.689	6.5
116	MP1B	Z	0	6.5
117	MP1B	Mx	-1.553e-5	6.5
118	MP1B	X	19.689	7.5
119	MP1B	Z	0	7.5
120	MP1B	Mx	-1.553e-5	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	41.641	1.25
2	MP1A	Z	24.041	1.25
3	MP1A	Mx	-2.404e-5	1.25
4	MP1A	X	41.641	5.25
5	MP1A	Z	24.041	5.25
6	MP1A	Mx	-2.404e-5	5.25
7	MP1B	X	97.042	1.25
8	MP1B	Z	56.027	1.25
9	MP1B	Mx	-7.47e-5	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
10	MP1B	X	97.042	5.25
11	MP1B	Z	56.027	5.25
12	MP1B	Mx	-7.47e-5	5.25
13	MP1C	X	55.491	1.25
14	MP1C	Z	32.038	1.25
15	MP1C	Mx	4.91e-5	1.25
16	MP1C	X	55.491	5.25
17	MP1C	Z	32.038	5.25
18	MP1C	Mx	4.91e-5	5.25
19	MP1A	X	41.641	1.25
20	MP1A	Z	24.041	1.25
21	MP1A	Mx	-2.404e-5	1.25
22	MP1A	X	41.641	5.25
23	MP1A	Z	24.041	5.25
24	MP1A	Mx	-2.404e-5	5.25
25	MP1B	X	97.042	1.25
26	MP1B	Z	56.027	1.25
27	MP1B	Mx	7.47e-5	1.25
28	MP1B	X	97.042	5.25
29	MP1B	Z	56.027	5.25
30	MP1B	Mx	7.47e-5	5.25
31	MP1C	X	55.491	1.25
32	MP1C	Z	32.038	1.25
33	MP1C	Mx	6.387e-6	1.25
34	MP1C	X	55.491	5.25
35	MP1C	Z	32.038	5.25
36	MP1C	Mx	6.387e-6	5.25
37	MP2A	X	41.641	1.25
38	MP2A	Z	24.041	1.25
39	MP2A	Mx	-2.404e-5	1.25
40	MP2A	X	41.641	5.25
41	MP2A	Z	24.041	5.25
42	MP2A	Mx	-2.404e-5	5.25
43	MP2B	X	97.042	1.25
44	MP2B	Z	56.027	1.25
45	MP2B	Mx	-7.47e-5	1.25
46	MP2B	X	97.042	5.25
47	MP2B	Z	56.027	5.25
48	MP2B	Mx	-7.47e-5	5.25
49	MP2C	X	55.491	1.25
50	MP2C	Z	32.038	1.25
51	MP2C	Mx	4.91e-5	1.25
52	MP2C	X	55.491	5.25
53	MP2C	Z	32.038	5.25
54	MP2C	Mx	4.91e-5	5.25
55	MP2A	X	41.641	1.25
56	MP2A	Z	24.041	1.25
57	MP2A	Mx	-2.404e-5	1.25
58	MP2A	X	41.641	5.25
59	MP2A	Z	24.041	5.25
60	MP2A	Mx	-2.404e-5	5.25
61	MP2B	X	97.042	1.25
62	MP2B	Z	56.027	1.25
63	MP2B	Mx	7.47e-5	1.25
64	MP2B	X	97.042	5.25
65	MP2B	Z	56.027	5.25
66	MP2B	Mx	7.47e-5	5.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
67	MP2C	X	55.491	1.25
68	MP2C	Z	32.038	1.25
69	MP2C	Mx	6.387e-6	1.25
70	MP2C	X	55.491	5.25
71	MP2C	Z	32.038	5.25
72	MP2C	Mx	6.387e-6	5.25
73	MP1A	X	37.173	4
74	MP1A	Z	21.462	4
75	MP1A	Mx	0	4
76	MP1B	X	55.402	4
77	MP1B	Z	31.986	4
78	MP1B	Mx	-4.798e-5	4
79	MP1C	X	41.73	4
80	MP1C	Z	24.093	4
81	MP1C	Mx	1.807e-5	4
82	MP1A	X	30.382	4
83	MP1A	Z	17.541	4
84	MP1A	Mx	0	4
85	MP1B	X	55.402	4
86	MP1B	Z	31.986	4
87	MP1B	Mx	4.798e-5	4
88	MP1C	X	36.637	4
89	MP1C	Z	21.152	4
90	MP1C	Mx	-1.586e-5	4
91	OVP	X	86.141	.75
92	OVP	Z	49.733	.75
93	OVP	Mx	7.46e-5	.75
94	OVP	X	113.305	.75
95	OVP	Z	65.417	.75
96	OVP	Mx	0	.75
97	MP1A	X	16.734	6.5
98	MP1A	Z	9.661	6.5
99	MP1A	Mx	1.932e-5	6.5
100	MP1A	X	16.734	7.5
101	MP1A	Z	9.661	7.5
102	MP1A	Mx	1.932e-5	7.5
103	MP1B	X	17.157	6.5
104	MP1B	Z	9.905	6.5
105	MP1B	Mx	6.603e-6	6.5
106	MP1B	X	17.157	7.5
107	MP1B	Z	9.905	7.5
108	MP1B	Mx	6.603e-6	7.5
109	MP1A	X	16.734	6.5
110	MP1A	Z	9.661	6.5
111	MP1A	Mx	1.932e-5	6.5
112	MP1A	X	16.734	7.5
113	MP1A	Z	9.661	7.5
114	MP1A	Mx	1.932e-5	7.5
115	MP1B	X	17.157	6.5
116	MP1B	Z	9.905	6.5
117	MP1B	Mx	-6.604e-6	6.5
118	MP1B	X	17.157	7.5
119	MP1B	Z	9.905	7.5
120	MP1B	Mx	-6.604e-6	7.5

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	32.038	1.25
2	MP1A	Z	55.491	1.25
3	MP1A	Mx	-6.387e-6	1.25
4	MP1A	X	32.038	5.25
5	MP1A	Z	55.491	5.25
6	MP1A	Mx	-6.387e-6	5.25
7	MP1B	X	48.031	1.25
8	MP1B	Z	83.192	1.25
9	MP1B	Mx	-7.948e-5	1.25
10	MP1B	X	48.031	5.25
11	MP1B	Z	83.192	5.25
12	MP1B	Mx	-7.948e-5	5.25
13	MP1C	X	24.041	1.25
14	MP1C	Z	41.641	1.25
15	MP1C	Mx	2.404e-5	1.25
16	MP1C	X	24.041	5.25
17	MP1C	Z	41.641	5.25
18	MP1C	Mx	2.404e-5	5.25
19	MP1A	X	32.038	1.25
20	MP1A	Z	55.491	1.25
21	MP1A	Mx	-4.91e-5	1.25
22	MP1A	X	32.038	5.25
23	MP1A	Z	55.491	5.25
24	MP1A	Mx	-4.91e-5	5.25
25	MP1B	X	48.031	1.25
26	MP1B	Z	83.192	1.25
27	MP1B	Mx	3.145e-5	1.25
28	MP1B	X	48.031	5.25
29	MP1B	Z	83.192	5.25
30	MP1B	Mx	3.145e-5	5.25
31	MP1C	X	24.041	1.25
32	MP1C	Z	41.641	1.25
33	MP1C	Mx	2.404e-5	1.25
34	MP1C	X	24.041	5.25
35	MP1C	Z	41.641	5.25
36	MP1C	Mx	2.404e-5	5.25
37	MP2A	X	32.038	1.25
38	MP2A	Z	55.491	1.25
39	MP2A	Mx	-6.387e-6	1.25
40	MP2A	X	32.038	5.25
41	MP2A	Z	55.491	5.25
42	MP2A	Mx	-6.387e-6	5.25
43	MP2B	X	48.031	1.25
44	MP2B	Z	83.192	1.25
45	MP2B	Mx	-7.948e-5	1.25
46	MP2B	X	48.031	5.25
47	MP2B	Z	83.192	5.25
48	MP2B	Mx	-7.948e-5	5.25
49	MP2C	X	24.041	1.25
50	MP2C	Z	41.641	1.25
51	MP2C	Mx	2.404e-5	1.25
52	MP2C	X	24.041	5.25
53	MP2C	Z	41.641	5.25
54	MP2C	Mx	2.404e-5	5.25
55	MP2A	X	32.038	1.25
56	MP2A	Z	55.491	1.25
57	MP2A	Mx	-4.91e-5	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2A	X	32.038	5.25
59	MP2A	Z	55.491	5.25
60	MP2A	Mx	-4.91e-5	5.25
61	MP2B	X	48.031	1.25
62	MP2B	Z	83.192	1.25
63	MP2B	Mx	3.145e-5	1.25
64	MP2B	X	48.031	5.25
65	MP2B	Z	83.192	5.25
66	MP2B	Mx	3.145e-5	5.25
67	MP2C	X	24.041	1.25
68	MP2C	Z	41.641	1.25
69	MP2C	Mx	2.404e-5	1.25
70	MP2C	X	24.041	5.25
71	MP2C	Z	41.641	5.25
72	MP2C	Mx	2.404e-5	5.25
73	MP1A	X	24.093	4
74	MP1A	Z	41.73	4
75	MP1A	Mx	1.807e-5	4
76	MP1B	X	29.355	4
77	MP1B	Z	50.844	4
78	MP1B	Mx	-3.813e-5	4
79	MP1C	X	21.462	4
80	MP1C	Z	37.173	4
81	MP1C	Mx	0	4
82	MP1A	X	21.152	4
83	MP1A	Z	36.637	4
84	MP1A	Mx	-1.586e-5	4
85	MP1B	X	28.375	4
86	MP1B	Z	49.147	4
87	MP1B	Mx	3.686e-5	4
88	MP1C	X	17.541	4
89	MP1C	Z	30.382	4
90	MP1C	Mx	0	4
91	OVP	X	53.654	.75
92	OVP	Z	92.932	.75
93	OVP	Mx	6.97e-5	.75
94	OVP	X	61.496	.75
95	OVP	Z	106.514	.75
96	OVP	Mx	4.612e-5	.75
97	MP1A	X	9.722	6.5
98	MP1A	Z	16.839	6.5
99	MP1A	Mx	1.36e-5	6.5
100	MP1A	X	9.722	7.5
101	MP1A	Z	16.839	7.5
102	MP1A	Mx	1.36e-5	7.5
103	MP1B	X	9.844	6.5
104	MP1B	Z	17.051	6.5
105	MP1B	Mx	1.553e-5	6.5
106	MP1B	X	9.844	7.5
107	MP1B	Z	17.051	7.5
108	MP1B	Mx	1.553e-5	7.5
109	MP1A	X	9.722	6.5
110	MP1A	Z	16.839	6.5
111	MP1A	Mx	2.008e-5	6.5
112	MP1A	X	9.722	7.5
113	MP1A	Z	16.839	7.5
114	MP1A	Mx	2.008e-5	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
115	MP1B	X	9.844	6.5
116	MP1B	Z	17.051	6.5
117	MP1B	Mx	4.161e-6	6.5
118	MP1B	X	9.844	7.5
119	MP1B	Z	17.051	7.5
120	MP1B	Mx	4.161e-6	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	1.25
2	MP1A	Z	96.062	1.25
3	MP1A	Mx	3.145e-5	1.25
4	MP1A	X	0	5.25
5	MP1A	Z	96.062	5.25
6	MP1A	Mx	3.145e-5	5.25
7	MP1B	X	0	1.25
8	MP1B	Z	64.075	1.25
9	MP1B	Mx	-4.91e-5	1.25
10	MP1B	X	0	5.25
11	MP1B	Z	64.075	5.25
12	MP1B	Mx	-4.91e-5	5.25
13	MP1C	X	0	1.25
14	MP1C	Z	64.075	1.25
15	MP1C	Mx	6.387e-6	1.25
16	MP1C	X	0	5.25
17	MP1C	Z	64.075	5.25
18	MP1C	Mx	6.387e-6	5.25
19	MP1A	X	0	1.25
20	MP1A	Z	96.062	1.25
21	MP1A	Mx	-7.948e-5	1.25
22	MP1A	X	0	5.25
23	MP1A	Z	96.062	5.25
24	MP1A	Mx	-7.948e-5	5.25
25	MP1B	X	0	1.25
26	MP1B	Z	64.075	1.25
27	MP1B	Mx	-6.387e-6	1.25
28	MP1B	X	0	5.25
29	MP1B	Z	64.075	5.25
30	MP1B	Mx	-6.387e-6	5.25
31	MP1C	X	0	1.25
32	MP1C	Z	64.075	1.25
33	MP1C	Mx	4.91e-5	1.25
34	MP1C	X	0	5.25
35	MP1C	Z	64.075	5.25
36	MP1C	Mx	4.91e-5	5.25
37	MP2A	X	0	1.25
38	MP2A	Z	96.062	1.25
39	MP2A	Mx	3.145e-5	1.25
40	MP2A	X	0	5.25
41	MP2A	Z	96.062	5.25
42	MP2A	Mx	3.145e-5	5.25
43	MP2B	X	0	1.25
44	MP2B	Z	64.075	1.25
45	MP2B	Mx	-4.91e-5	1.25
46	MP2B	X	0	5.25
47	MP2B	Z	64.075	5.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
48	MP2B	Mx	-4.91e-5	5.25
49	MP2C	X	0	1.25
50	MP2C	Z	64.075	1.25
51	MP2C	Mx	6.387e-6	1.25
52	MP2C	X	0	5.25
53	MP2C	Z	64.075	5.25
54	MP2C	Mx	6.387e-6	5.25
55	MP2A	X	0	1.25
56	MP2A	Z	96.062	1.25
57	MP2A	Mx	-7.948e-5	1.25
58	MP2A	X	0	5.25
59	MP2A	Z	96.062	5.25
60	MP2A	Mx	-7.948e-5	5.25
61	MP2B	X	0	1.25
62	MP2B	Z	64.075	1.25
63	MP2B	Mx	-6.387e-6	1.25
64	MP2B	X	0	5.25
65	MP2B	Z	64.075	5.25
66	MP2B	Mx	-6.387e-6	5.25
67	MP2C	X	0	1.25
68	MP2C	Z	64.075	1.25
69	MP2C	Mx	4.91e-5	1.25
70	MP2C	X	0	5.25
71	MP2C	Z	64.075	5.25
72	MP2C	Mx	4.91e-5	5.25
73	MP1A	X	0	4
74	MP1A	Z	58.71	4
75	MP1A	Mx	3.813e-5	4
76	MP1B	X	0	4
77	MP1B	Z	48.186	4
78	MP1B	Mx	-1.807e-5	4
79	MP1C	X	0	4
80	MP1C	Z	48.186	4
81	MP1C	Mx	-1.807e-5	4
82	MP1A	X	0	4
83	MP1A	Z	56.75	4
84	MP1A	Mx	-3.686e-5	4
85	MP1B	X	0	4
86	MP1B	Z	42.304	4
87	MP1B	Mx	1.586e-5	4
88	MP1C	X	0	4
89	MP1C	Z	42.304	4
90	MP1C	Mx	1.586e-5	4
91	OVP	X	0	.75
92	OVP	Z	122.992	.75
93	OVP	Mx	4.612e-5	.75
94	OVP	X	0	.75
95	OVP	Z	107.308	.75
96	OVP	Mx	6.97e-5	.75
97	MP1A	X	0	6.5
98	MP1A	Z	19.689	6.5
99	MP1A	Mx	4.161e-6	6.5
100	MP1A	X	0	7.5
101	MP1A	Z	19.689	7.5
102	MP1A	Mx	4.161e-6	7.5
103	MP1B	X	0	6.5
104	MP1B	Z	19.444	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
105	MP1B	Mx	2.008e-5	6.5
106	MP1B	X	0	7.5
107	MP1B	Z	19.444	7.5
108	MP1B	Mx	2.008e-5	7.5
109	MP1A	X	0	6.5
110	MP1A	Z	19.689	6.5
111	MP1A	Mx	1.553e-5	6.5
112	MP1A	X	0	7.5
113	MP1A	Z	19.689	7.5
114	MP1A	Mx	1.553e-5	7.5
115	MP1B	X	0	6.5
116	MP1B	Z	19.444	6.5
117	MP1B	Mx	1.36e-5	6.5
118	MP1B	X	0	7.5
119	MP1B	Z	19.444	7.5
120	MP1B	Mx	1.36e-5	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-56.027	1.25
2	MP1A	Z	97.042	1.25
3	MP1A	Mx	7.47e-5	1.25
4	MP1A	X	-56.027	5.25
5	MP1A	Z	97.042	5.25
6	MP1A	Mx	7.47e-5	5.25
7	MP1B	X	-24.041	1.25
8	MP1B	Z	41.641	1.25
9	MP1B	Mx	-2.404e-5	1.25
10	MP1B	X	-24.041	5.25
11	MP1B	Z	41.641	5.25
12	MP1B	Mx	-2.404e-5	5.25
13	MP1C	X	-48.031	1.25
14	MP1C	Z	83.192	1.25
15	MP1C	Mx	-3.145e-5	1.25
16	MP1C	X	-48.031	5.25
17	MP1C	Z	83.192	5.25
18	MP1C	Mx	-3.145e-5	5.25
19	MP1A	X	-56.027	1.25
20	MP1A	Z	97.042	1.25
21	MP1A	Mx	-7.47e-5	1.25
22	MP1A	X	-56.027	5.25
23	MP1A	Z	97.042	5.25
24	MP1A	Mx	-7.47e-5	5.25
25	MP1B	X	-24.041	1.25
26	MP1B	Z	41.641	1.25
27	MP1B	Mx	-2.404e-5	1.25
28	MP1B	X	-24.041	5.25
29	MP1B	Z	41.641	5.25
30	MP1B	Mx	-2.404e-5	5.25
31	MP1C	X	-48.031	1.25
32	MP1C	Z	83.192	1.25
33	MP1C	Mx	7.948e-5	1.25
34	MP1C	X	-48.031	5.25
35	MP1C	Z	83.192	5.25
36	MP1C	Mx	7.948e-5	5.25
37	MP2A	X	-56.027	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
38	MP2A	Z	97.042	1.25
39	MP2A	Mx	7.47e-5	1.25
40	MP2A	X	-56.027	5.25
41	MP2A	Z	97.042	5.25
42	MP2A	Mx	7.47e-5	5.25
43	MP2B	X	-24.041	1.25
44	MP2B	Z	41.641	1.25
45	MP2B	Mx	-2.404e-5	1.25
46	MP2B	X	-24.041	5.25
47	MP2B	Z	41.641	5.25
48	MP2B	Mx	-2.404e-5	5.25
49	MP2C	X	-48.031	1.25
50	MP2C	Z	83.192	1.25
51	MP2C	Mx	-3.145e-5	1.25
52	MP2C	X	-48.031	5.25
53	MP2C	Z	83.192	5.25
54	MP2C	Mx	-3.145e-5	5.25
55	MP2A	X	-56.027	1.25
56	MP2A	Z	97.042	1.25
57	MP2A	Mx	-7.47e-5	1.25
58	MP2A	X	-56.027	5.25
59	MP2A	Z	97.042	5.25
60	MP2A	Mx	-7.47e-5	5.25
61	MP2B	X	-24.041	1.25
62	MP2B	Z	41.641	1.25
63	MP2B	Mx	-2.404e-5	1.25
64	MP2B	X	-24.041	5.25
65	MP2B	Z	41.641	5.25
66	MP2B	Mx	-2.404e-5	5.25
67	MP2C	X	-48.031	1.25
68	MP2C	Z	83.192	1.25
69	MP2C	Mx	7.948e-5	1.25
70	MP2C	X	-48.031	5.25
71	MP2C	Z	83.192	5.25
72	MP2C	Mx	7.948e-5	5.25
73	MP1A	X	-31.986	4
74	MP1A	Z	55.402	4
75	MP1A	Mx	4.798e-5	4
76	MP1B	X	-21.462	4
77	MP1B	Z	37.173	4
78	MP1B	Mx	0	4
79	MP1C	X	-29.355	4
80	MP1C	Z	50.844	4
81	MP1C	Mx	-3.813e-5	4
82	MP1A	X	-31.986	4
83	MP1A	Z	55.402	4
84	MP1A	Mx	-4.798e-5	4
85	MP1B	X	-17.541	4
86	MP1B	Z	30.382	4
87	MP1B	Mx	0	4
88	MP1C	X	-28.375	4
89	MP1C	Z	49.147	4
90	MP1C	Mx	3.686e-5	4
91	OVP	X	-65.417	.75
92	OVP	Z	113.305	.75
93	OVP	Mx	0	.75
94	OVP	X	-49.733	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
95	OVP	Z	86.141	.75
96	OVP	Mx	7.46e-5	.75
97	MP1A	X	-9.905	6.5
98	MP1A	Z	17.157	6.5
99	MP1A	Mx	-6.603e-6	6.5
100	MP1A	X	-9.905	7.5
101	MP1A	Z	17.157	7.5
102	MP1A	Mx	-6.603e-6	7.5
103	MP1B	X	-9.661	6.5
104	MP1B	Z	16.734	6.5
105	MP1B	Mx	1.932e-5	6.5
106	MP1B	X	-9.661	7.5
107	MP1B	Z	16.734	7.5
108	MP1B	Mx	1.932e-5	7.5
109	MP1A	X	-9.905	6.5
110	MP1A	Z	17.157	6.5
111	MP1A	Mx	6.604e-6	6.5
112	MP1A	X	-9.905	7.5
113	MP1A	Z	17.157	7.5
114	MP1A	Mx	6.604e-6	7.5
115	MP1B	X	-9.661	6.5
116	MP1B	Z	16.734	6.5
117	MP1B	Mx	1.932e-5	6.5
118	MP1B	X	-9.661	7.5
119	MP1B	Z	16.734	7.5
120	MP1B	Mx	1.932e-5	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-83.192	1.25
2	MP1A	Z	48.031	1.25
3	MP1A	Mx	7.948e-5	1.25
4	MP1A	X	-83.192	5.25
5	MP1A	Z	48.031	5.25
6	MP1A	Mx	7.948e-5	5.25
7	MP1B	X	-55.491	1.25
8	MP1B	Z	32.038	1.25
9	MP1B	Mx	-6.387e-6	1.25
10	MP1B	X	-55.491	5.25
11	MP1B	Z	32.038	5.25
12	MP1B	Mx	-6.387e-6	5.25
13	MP1C	X	-97.042	1.25
14	MP1C	Z	56.027	1.25
15	MP1C	Mx	-7.47e-5	1.25
16	MP1C	X	-97.042	5.25
17	MP1C	Z	56.027	5.25
18	MP1C	Mx	-7.47e-5	5.25
19	MP1A	X	-83.192	1.25
20	MP1A	Z	48.031	1.25
21	MP1A	Mx	-3.145e-5	1.25
22	MP1A	X	-83.192	5.25
23	MP1A	Z	48.031	5.25
24	MP1A	Mx	-3.145e-5	5.25
25	MP1B	X	-55.491	1.25
26	MP1B	Z	32.038	1.25
27	MP1B	Mx	-4.91e-5	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
28	MP1B	X	-55.491	5.25
29	MP1B	Z	32.038	5.25
30	MP1B	Mx	-4.91e-5	5.25
31	MP1C	X	-97.042	1.25
32	MP1C	Z	56.027	1.25
33	MP1C	Mx	7.47e-5	1.25
34	MP1C	X	-97.042	5.25
35	MP1C	Z	56.027	5.25
36	MP1C	Mx	7.47e-5	5.25
37	MP2A	X	-83.192	1.25
38	MP2A	Z	48.031	1.25
39	MP2A	Mx	7.948e-5	1.25
40	MP2A	X	-83.192	5.25
41	MP2A	Z	48.031	5.25
42	MP2A	Mx	7.948e-5	5.25
43	MP2B	X	-55.491	1.25
44	MP2B	Z	32.038	1.25
45	MP2B	Mx	-6.387e-6	1.25
46	MP2B	X	-55.491	5.25
47	MP2B	Z	32.038	5.25
48	MP2B	Mx	-6.387e-6	5.25
49	MP2C	X	-97.042	1.25
50	MP2C	Z	56.027	1.25
51	MP2C	Mx	-7.47e-5	1.25
52	MP2C	X	-97.042	5.25
53	MP2C	Z	56.027	5.25
54	MP2C	Mx	-7.47e-5	5.25
55	MP2A	X	-83.192	1.25
56	MP2A	Z	48.031	1.25
57	MP2A	Mx	-3.145e-5	1.25
58	MP2A	X	-83.192	5.25
59	MP2A	Z	48.031	5.25
60	MP2A	Mx	-3.145e-5	5.25
61	MP2B	X	-55.491	1.25
62	MP2B	Z	32.038	1.25
63	MP2B	Mx	-4.91e-5	1.25
64	MP2B	X	-55.491	5.25
65	MP2B	Z	32.038	5.25
66	MP2B	Mx	-4.91e-5	5.25
67	MP2C	X	-97.042	1.25
68	MP2C	Z	56.027	1.25
69	MP2C	Mx	7.47e-5	1.25
70	MP2C	X	-97.042	5.25
71	MP2C	Z	56.027	5.25
72	MP2C	Mx	7.47e-5	5.25
73	MP1A	X	-50.844	4
74	MP1A	Z	29.355	4
75	MP1A	Mx	3.813e-5	4
76	MP1B	X	-41.73	4
77	MP1B	Z	24.093	4
78	MP1B	Mx	1.807e-5	4
79	MP1C	X	-55.402	4
80	MP1C	Z	31.986	4
81	MP1C	Mx	-4.798e-5	4
82	MP1A	X	-49.147	4
83	MP1A	Z	28.375	4
84	MP1A	Mx	-3.686e-5	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
85	MP1B	X	-36.637	4
86	MP1B	Z	21.152	4
87	MP1B	Mx	-1.586e-5	4
88	MP1C	X	-55.402	4
89	MP1C	Z	31.986	4
90	MP1C	Mx	4.798e-5	4
91	OVP	X	-106.514	.75
92	OVP	Z	61.496	.75
93	OVP	Mx	-4.612e-5	.75
94	OVP	X	-92.932	.75
95	OVP	Z	53.654	.75
96	OVP	Mx	6.97e-5	.75
97	MP1A	X	-17.051	6.5
98	MP1A	Z	9.844	6.5
99	MP1A	Mx	-1.553e-5	6.5
100	MP1A	X	-17.051	7.5
101	MP1A	Z	9.844	7.5
102	MP1A	Mx	-1.553e-5	7.5
103	MP1B	X	-16.839	6.5
104	MP1B	Z	9.722	6.5
105	MP1B	Mx	1.36e-5	6.5
106	MP1B	X	-16.839	7.5
107	MP1B	Z	9.722	7.5
108	MP1B	Mx	1.36e-5	7.5
109	MP1A	X	-17.051	6.5
110	MP1A	Z	9.844	6.5
111	MP1A	Mx	-4.161e-6	6.5
112	MP1A	X	-17.051	7.5
113	MP1A	Z	9.844	7.5
114	MP1A	Mx	-4.161e-6	7.5
115	MP1B	X	-16.839	6.5
116	MP1B	Z	9.722	6.5
117	MP1B	Mx	2.008e-5	6.5
118	MP1B	X	-16.839	7.5
119	MP1B	Z	9.722	7.5
120	MP1B	Mx	2.008e-5	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-64.075	1.25
2	MP1A	Z	0	1.25
3	MP1A	Mx	4.91e-5	1.25
4	MP1A	X	-64.075	5.25
5	MP1A	Z	0	5.25
6	MP1A	Mx	4.91e-5	5.25
7	MP1B	X	-96.062	1.25
8	MP1B	Z	0	1.25
9	MP1B	Mx	3.145e-5	1.25
10	MP1B	X	-96.062	5.25
11	MP1B	Z	0	5.25
12	MP1B	Mx	3.145e-5	5.25
13	MP1C	X	-96.062	1.25
14	MP1C	Z	0	1.25
15	MP1C	Mx	-7.948e-5	1.25
16	MP1C	X	-96.062	5.25
17	MP1C	Z	0	5.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP1C	Mx	-7.948e-5	5.25
19	MP1A	X	-64.075	1.25
20	MP1A	Z	0	1.25
21	MP1A	Mx	6.387e-6	1.25
22	MP1A	X	-64.075	5.25
23	MP1A	Z	0	5.25
24	MP1A	Mx	6.387e-6	5.25
25	MP1B	X	-96.062	1.25
26	MP1B	Z	0	1.25
27	MP1B	Mx	-7.948e-5	1.25
28	MP1B	X	-96.062	5.25
29	MP1B	Z	0	5.25
30	MP1B	Mx	-7.948e-5	5.25
31	MP1C	X	-96.062	1.25
32	MP1C	Z	0	1.25
33	MP1C	Mx	3.145e-5	1.25
34	MP1C	X	-96.062	5.25
35	MP1C	Z	0	5.25
36	MP1C	Mx	3.145e-5	5.25
37	MP2A	X	-64.075	1.25
38	MP2A	Z	0	1.25
39	MP2A	Mx	4.91e-5	1.25
40	MP2A	X	-64.075	5.25
41	MP2A	Z	0	5.25
42	MP2A	Mx	4.91e-5	5.25
43	MP2B	X	-96.062	1.25
44	MP2B	Z	0	1.25
45	MP2B	Mx	3.145e-5	1.25
46	MP2B	X	-96.062	5.25
47	MP2B	Z	0	5.25
48	MP2B	Mx	3.145e-5	5.25
49	MP2C	X	-96.062	1.25
50	MP2C	Z	0	1.25
51	MP2C	Mx	-7.948e-5	1.25
52	MP2C	X	-96.062	5.25
53	MP2C	Z	0	5.25
54	MP2C	Mx	-7.948e-5	5.25
55	MP2A	X	-64.075	1.25
56	MP2A	Z	0	1.25
57	MP2A	Mx	6.387e-6	1.25
58	MP2A	X	-64.075	5.25
59	MP2A	Z	0	5.25
60	MP2A	Mx	6.387e-6	5.25
61	MP2B	X	-96.062	1.25
62	MP2B	Z	0	1.25
63	MP2B	Mx	-7.948e-5	1.25
64	MP2B	X	-96.062	5.25
65	MP2B	Z	0	5.25
66	MP2B	Mx	-7.948e-5	5.25
67	MP2C	X	-96.062	1.25
68	MP2C	Z	0	1.25
69	MP2C	Mx	3.145e-5	1.25
70	MP2C	X	-96.062	5.25
71	MP2C	Z	0	5.25
72	MP2C	Mx	3.145e-5	5.25
73	MP1A	X	-48.186	4
74	MP1A	Z	0	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
75	MP1A	Mx	1.807e-5	4
76	MP1B	X	-58.71	4
77	MP1B	Z	0	4
78	MP1B	Mx	3.813e-5	4
79	MP1C	X	-58.71	4
80	MP1C	Z	0	4
81	MP1C	Mx	-3.813e-5	4
82	MP1A	X	-42.304	4
83	MP1A	Z	0	4
84	MP1A	Mx	-1.586e-5	4
85	MP1B	X	-56.75	4
86	MP1B	Z	0	4
87	MP1B	Mx	-3.686e-5	4
88	MP1C	X	-56.75	4
89	MP1C	Z	0	4
90	MP1C	Mx	3.686e-5	4
91	OVP	X	-107.308	.75
92	OVP	Z	0	.75
93	OVP	Mx	-6.97e-5	.75
94	OVP	X	-122.992	.75
95	OVP	Z	0	.75
96	OVP	Mx	4.612e-5	.75
97	MP1A	X	-19.444	6.5
98	MP1A	Z	0	6.5
99	MP1A	Mx	-2.008e-5	6.5
100	MP1A	X	-19.444	7.5
101	MP1A	Z	0	7.5
102	MP1A	Mx	-2.008e-5	7.5
103	MP1B	X	-19.689	6.5
104	MP1B	Z	0	6.5
105	MP1B	Mx	4.161e-6	6.5
106	MP1B	X	-19.689	7.5
107	MP1B	Z	0	7.5
108	MP1B	Mx	4.161e-6	7.5
109	MP1A	X	-19.444	6.5
110	MP1A	Z	0	6.5
111	MP1A	Mx	-1.36e-5	6.5
112	MP1A	X	-19.444	7.5
113	MP1A	Z	0	7.5
114	MP1A	Mx	-1.36e-5	7.5
115	MP1B	X	-19.689	6.5
116	MP1B	Z	0	6.5
117	MP1B	Mx	1.553e-5	6.5
118	MP1B	X	-19.689	7.5
119	MP1B	Z	0	7.5
120	MP1B	Mx	1.553e-5	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-41.641	1.25
2	MP1A	Z	-24.041	1.25
3	MP1A	Mx	2.404e-5	1.25
4	MP1A	X	-41.641	5.25
5	MP1A	Z	-24.041	5.25
6	MP1A	Mx	2.404e-5	5.25
7	MP1B	X	-97.042	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP1B	Z	-56.027	1.25
9	MP1B	Mx	7.47e-5	1.25
10	MP1B	X	-97.042	5.25
11	MP1B	Z	-56.027	5.25
12	MP1B	Mx	7.47e-5	5.25
13	MP1C	X	-55.491	1.25
14	MP1C	Z	-32.038	1.25
15	MP1C	Mx	-4.91e-5	1.25
16	MP1C	X	-55.491	5.25
17	MP1C	Z	-32.038	5.25
18	MP1C	Mx	-4.91e-5	5.25
19	MP1A	X	-41.641	1.25
20	MP1A	Z	-24.041	1.25
21	MP1A	Mx	2.404e-5	1.25
22	MP1A	X	-41.641	5.25
23	MP1A	Z	-24.041	5.25
24	MP1A	Mx	2.404e-5	5.25
25	MP1B	X	-97.042	1.25
26	MP1B	Z	-56.027	1.25
27	MP1B	Mx	-7.47e-5	1.25
28	MP1B	X	-97.042	5.25
29	MP1B	Z	-56.027	5.25
30	MP1B	Mx	-7.47e-5	5.25
31	MP1C	X	-55.491	1.25
32	MP1C	Z	-32.038	1.25
33	MP1C	Mx	-6.387e-6	1.25
34	MP1C	X	-55.491	5.25
35	MP1C	Z	-32.038	5.25
36	MP1C	Mx	-6.387e-6	5.25
37	MP2A	X	-41.641	1.25
38	MP2A	Z	-24.041	1.25
39	MP2A	Mx	2.404e-5	1.25
40	MP2A	X	-41.641	5.25
41	MP2A	Z	-24.041	5.25
42	MP2A	Mx	2.404e-5	5.25
43	MP2B	X	-97.042	1.25
44	MP2B	Z	-56.027	1.25
45	MP2B	Mx	7.47e-5	1.25
46	MP2B	X	-97.042	5.25
47	MP2B	Z	-56.027	5.25
48	MP2B	Mx	7.47e-5	5.25
49	MP2C	X	-55.491	1.25
50	MP2C	Z	-32.038	1.25
51	MP2C	Mx	-4.91e-5	1.25
52	MP2C	X	-55.491	5.25
53	MP2C	Z	-32.038	5.25
54	MP2C	Mx	-4.91e-5	5.25
55	MP2A	X	-41.641	1.25
56	MP2A	Z	-24.041	1.25
57	MP2A	Mx	2.404e-5	1.25
58	MP2A	X	-41.641	5.25
59	MP2A	Z	-24.041	5.25
60	MP2A	Mx	2.404e-5	5.25
61	MP2B	X	-97.042	1.25
62	MP2B	Z	-56.027	1.25
63	MP2B	Mx	-7.47e-5	1.25
64	MP2B	X	-97.042	5.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
65	MP2B	Z	-56.027	5.25
66	MP2B	Mx	-7.47e-5	5.25
67	MP2C	X	-55.491	1.25
68	MP2C	Z	-32.038	1.25
69	MP2C	Mx	-6.387e-6	1.25
70	MP2C	X	-55.491	5.25
71	MP2C	Z	-32.038	5.25
72	MP2C	Mx	-6.387e-6	5.25
73	MP1A	X	-37.173	4
74	MP1A	Z	-21.462	4
75	MP1A	Mx	0	4
76	MP1B	X	-55.402	4
77	MP1B	Z	-31.986	4
78	MP1B	Mx	4.798e-5	4
79	MP1C	X	-41.73	4
80	MP1C	Z	-24.093	4
81	MP1C	Mx	-1.807e-5	4
82	MP1A	X	-30.382	4
83	MP1A	Z	-17.541	4
84	MP1A	Mx	0	4
85	MP1B	X	-55.402	4
86	MP1B	Z	-31.986	4
87	MP1B	Mx	-4.798e-5	4
88	MP1C	X	-36.637	4
89	MP1C	Z	-21.152	4
90	MP1C	Mx	1.586e-5	4
91	OVP	X	-86.141	.75
92	OVP	Z	-49.733	.75
93	OVP	Mx	-7.46e-5	.75
94	OVP	X	-113.305	.75
95	OVP	Z	-65.417	.75
96	OVP	Mx	0	.75
97	MP1A	X	-16.734	6.5
98	MP1A	Z	-9.661	6.5
99	MP1A	Mx	-1.932e-5	6.5
100	MP1A	X	-16.734	7.5
101	MP1A	Z	-9.661	7.5
102	MP1A	Mx	-1.932e-5	7.5
103	MP1B	X	-17.157	6.5
104	MP1B	Z	-9.905	6.5
105	MP1B	Mx	-6.603e-6	6.5
106	MP1B	X	-17.157	7.5
107	MP1B	Z	-9.905	7.5
108	MP1B	Mx	-6.603e-6	7.5
109	MP1A	X	-16.734	6.5
110	MP1A	Z	-9.661	6.5
111	MP1A	Mx	-1.932e-5	6.5
112	MP1A	X	-16.734	7.5
113	MP1A	Z	-9.661	7.5
114	MP1A	Mx	-1.932e-5	7.5
115	MP1B	X	-17.157	6.5
116	MP1B	Z	-9.905	6.5
117	MP1B	Mx	6.604e-6	6.5
118	MP1B	X	-17.157	7.5
119	MP1B	Z	-9.905	7.5
120	MP1B	Mx	6.604e-6	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-32.038	1.25
2	MP1A	Z	-55.491	1.25
3	MP1A	Mx	6.387e-6	1.25
4	MP1A	X	-32.038	5.25
5	MP1A	Z	-55.491	5.25
6	MP1A	Mx	6.387e-6	5.25
7	MP1B	X	-48.031	1.25
8	MP1B	Z	-83.192	1.25
9	MP1B	Mx	7.948e-5	1.25
10	MP1B	X	-48.031	5.25
11	MP1B	Z	-83.192	5.25
12	MP1B	Mx	7.948e-5	5.25
13	MP1C	X	-24.041	1.25
14	MP1C	Z	-41.641	1.25
15	MP1C	Mx	-2.404e-5	1.25
16	MP1C	X	-24.041	5.25
17	MP1C	Z	-41.641	5.25
18	MP1C	Mx	-2.404e-5	5.25
19	MP1A	X	-32.038	1.25
20	MP1A	Z	-55.491	1.25
21	MP1A	Mx	4.91e-5	1.25
22	MP1A	X	-32.038	5.25
23	MP1A	Z	-55.491	5.25
24	MP1A	Mx	4.91e-5	5.25
25	MP1B	X	-48.031	1.25
26	MP1B	Z	-83.192	1.25
27	MP1B	Mx	-3.145e-5	1.25
28	MP1B	X	-48.031	5.25
29	MP1B	Z	-83.192	5.25
30	MP1B	Mx	-3.145e-5	5.25
31	MP1C	X	-24.041	1.25
32	MP1C	Z	-41.641	1.25
33	MP1C	Mx	-2.404e-5	1.25
34	MP1C	X	-24.041	5.25
35	MP1C	Z	-41.641	5.25
36	MP1C	Mx	-2.404e-5	5.25
37	MP2A	X	-32.038	1.25
38	MP2A	Z	-55.491	1.25
39	MP2A	Mx	6.387e-6	1.25
40	MP2A	X	-32.038	5.25
41	MP2A	Z	-55.491	5.25
42	MP2A	Mx	6.387e-6	5.25
43	MP2B	X	-48.031	1.25
44	MP2B	Z	-83.192	1.25
45	MP2B	Mx	7.948e-5	1.25
46	MP2B	X	-48.031	5.25
47	MP2B	Z	-83.192	5.25
48	MP2B	Mx	7.948e-5	5.25
49	MP2C	X	-24.041	1.25
50	MP2C	Z	-41.641	1.25
51	MP2C	Mx	-2.404e-5	1.25
52	MP2C	X	-24.041	5.25
53	MP2C	Z	-41.641	5.25
54	MP2C	Mx	-2.404e-5	5.25
55	MP2A	X	-32.038	1.25
56	MP2A	Z	-55.491	1.25
57	MP2A	Mx	4.91e-5	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2A	X	-32.038	5.25
59	MP2A	Z	-55.491	5.25
60	MP2A	Mx	4.91e-5	5.25
61	MP2B	X	-48.031	1.25
62	MP2B	Z	-83.192	1.25
63	MP2B	Mx	-3.145e-5	1.25
64	MP2B	X	-48.031	5.25
65	MP2B	Z	-83.192	5.25
66	MP2B	Mx	-3.145e-5	5.25
67	MP2C	X	-24.041	1.25
68	MP2C	Z	-41.641	1.25
69	MP2C	Mx	-2.404e-5	1.25
70	MP2C	X	-24.041	5.25
71	MP2C	Z	-41.641	5.25
72	MP2C	Mx	-2.404e-5	5.25
73	MP1A	X	-24.093	4
74	MP1A	Z	-41.73	4
75	MP1A	Mx	-1.807e-5	4
76	MP1B	X	-29.355	4
77	MP1B	Z	-50.844	4
78	MP1B	Mx	3.813e-5	4
79	MP1C	X	-21.462	4
80	MP1C	Z	-37.173	4
81	MP1C	Mx	0	4
82	MP1A	X	-21.152	4
83	MP1A	Z	-36.637	4
84	MP1A	Mx	1.586e-5	4
85	MP1B	X	-28.375	4
86	MP1B	Z	-49.147	4
87	MP1B	Mx	-3.686e-5	4
88	MP1C	X	-17.541	4
89	MP1C	Z	-30.382	4
90	MP1C	Mx	0	4
91	OVP	X	-53.654	.75
92	OVP	Z	-92.932	.75
93	OVP	Mx	-6.97e-5	.75
94	OVP	X	-61.496	.75
95	OVP	Z	-106.514	.75
96	OVP	Mx	-4.612e-5	.75
97	MP1A	X	-9.722	6.5
98	MP1A	Z	-16.839	6.5
99	MP1A	Mx	-1.36e-5	6.5
100	MP1A	X	-9.722	7.5
101	MP1A	Z	-16.839	7.5
102	MP1A	Mx	-1.36e-5	7.5
103	MP1B	X	-9.844	6.5
104	MP1B	Z	-17.051	6.5
105	MP1B	Mx	-1.553e-5	6.5
106	MP1B	X	-9.844	7.5
107	MP1B	Z	-17.051	7.5
108	MP1B	Mx	-1.553e-5	7.5
109	MP1A	X	-9.722	6.5
110	MP1A	Z	-16.839	6.5
111	MP1A	Mx	-2.008e-5	6.5
112	MP1A	X	-9.722	7.5
113	MP1A	Z	-16.839	7.5
114	MP1A	Mx	-2.008e-5	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
115	MP1B	X	-9.844	6.5
116	MP1B	Z	-17.051	6.5
117	MP1B	Mx	-4.161e-6	6.5
118	MP1B	X	-9.844	7.5
119	MP1B	Z	-17.051	7.5
120	MP1B	Mx	-4.161e-6	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	1.25
2	MP1A	Z	-31.01	1.25
3	MP1A	Mx	-1.015e-5	1.25
4	MP1A	X	0	5.25
5	MP1A	Z	-31.01	5.25
6	MP1A	Mx	-1.015e-5	5.25
7	MP1B	X	0	1.25
8	MP1B	Z	-26.032	1.25
9	MP1B	Mx	1.995e-5	1.25
10	MP1B	X	0	5.25
11	MP1B	Z	-26.032	5.25
12	MP1B	Mx	1.995e-5	5.25
13	MP1C	X	0	1.25
14	MP1C	Z	-26.032	1.25
15	MP1C	Mx	-2.595e-6	1.25
16	MP1C	X	0	5.25
17	MP1C	Z	-26.032	5.25
18	MP1C	Mx	-2.595e-6	5.25
19	MP1A	X	0	1.25
20	MP1A	Z	-31.01	1.25
21	MP1A	Mx	2.566e-5	1.25
22	MP1A	X	0	5.25
23	MP1A	Z	-31.01	5.25
24	MP1A	Mx	2.566e-5	5.25
25	MP1B	X	0	1.25
26	MP1B	Z	-26.032	1.25
27	MP1B	Mx	2.595e-6	1.25
28	MP1B	X	0	5.25
29	MP1B	Z	-26.032	5.25
30	MP1B	Mx	2.595e-6	5.25
31	MP1C	X	0	1.25
32	MP1C	Z	-26.032	1.25
33	MP1C	Mx	-1.995e-5	1.25
34	MP1C	X	0	5.25
35	MP1C	Z	-26.032	5.25
36	MP1C	Mx	-1.995e-5	5.25
37	MP2A	X	0	1.25
38	MP2A	Z	-31.01	1.25
39	MP2A	Mx	-1.015e-5	1.25
40	MP2A	X	0	5.25
41	MP2A	Z	-31.01	5.25
42	MP2A	Mx	-1.015e-5	5.25
43	MP2B	X	0	1.25
44	MP2B	Z	-26.032	1.25
45	MP2B	Mx	1.995e-5	1.25
46	MP2B	X	0	5.25
47	MP2B	Z	-26.032	5.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
48	MP2B	Mx	1.995e-5	5.25
49	MP2C	X	0	1.25
50	MP2C	Z	-26.032	1.25
51	MP2C	Mx	-2.595e-6	1.25
52	MP2C	X	0	5.25
53	MP2C	Z	-26.032	5.25
54	MP2C	Mx	-2.595e-6	5.25
55	MP2A	X	0	1.25
56	MP2A	Z	-31.01	1.25
57	MP2A	Mx	2.566e-5	1.25
58	MP2A	X	0	5.25
59	MP2A	Z	-31.01	5.25
60	MP2A	Mx	2.566e-5	5.25
61	MP2B	X	0	1.25
62	MP2B	Z	-26.032	1.25
63	MP2B	Mx	2.595e-6	1.25
64	MP2B	X	0	5.25
65	MP2B	Z	-26.032	5.25
66	MP2B	Mx	2.595e-6	5.25
67	MP2C	X	0	1.25
68	MP2C	Z	-26.032	1.25
69	MP2C	Mx	-1.995e-5	1.25
70	MP2C	X	0	5.25
71	MP2C	Z	-26.032	5.25
72	MP2C	Mx	-1.995e-5	5.25
73	MP1A	X	0	4
74	MP1A	Z	-16.167	4
75	MP1A	Mx	-1.05e-5	4
76	MP1B	X	0	4
77	MP1B	Z	-13.629	4
78	MP1B	Mx	5.111e-6	4
79	MP1C	X	0	4
80	MP1C	Z	-13.629	4
81	MP1C	Mx	5.111e-6	4
82	MP1A	X	0	4
83	MP1A	Z	-15.685	4
84	MP1A	Mx	1.019e-5	4
85	MP1B	X	0	4
86	MP1B	Z	-12.182	4
87	MP1B	Mx	-4.568e-6	4
88	MP1C	X	0	4
89	MP1C	Z	-12.182	4
90	MP1C	Mx	-4.568e-6	4
91	OVP	X	0	.75
92	OVP	Z	-33.146	.75
93	OVP	Mx	-1.243e-5	.75
94	OVP	X	0	.75
95	OVP	Z	-29.478	.75
96	OVP	Mx	-1.915e-5	.75
97	MP1A	X	0	6.5
98	MP1A	Z	-2.74	6.5
99	MP1A	Mx	-5.79e-7	6.5
100	MP1A	X	0	7.5
101	MP1A	Z	-2.74	7.5
102	MP1A	Mx	-5.79e-7	7.5
103	MP1B	X	0	6.5
104	MP1B	Z	-4.132	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
105	MP1B	Mx	-4.267e-6	6.5
106	MP1B	X	0	7.5
107	MP1B	Z	-4.132	7.5
108	MP1B	Mx	-4.267e-6	7.5
109	MP1A	X	0	6.5
110	MP1A	Z	-2.74	6.5
111	MP1A	Mx	-2.161e-6	6.5
112	MP1A	X	0	7.5
113	MP1A	Z	-2.74	7.5
114	MP1A	Mx	-2.161e-6	7.5
115	MP1B	X	0	6.5
116	MP1B	Z	-4.132	6.5
117	MP1B	Mx	-2.89e-6	6.5
118	MP1B	X	0	7.5
119	MP1B	Z	-4.132	7.5
120	MP1B	Mx	-2.89e-6	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	16.749	1.25
2	MP1A	Z	-29.011	1.25
3	MP1A	Mx	-2.233e-5	1.25
4	MP1A	X	16.749	5.25
5	MP1A	Z	-29.011	5.25
6	MP1A	Mx	-2.233e-5	5.25
7	MP1B	X	11.771	1.25
8	MP1B	Z	-20.389	1.25
9	MP1B	Mx	1.177e-5	1.25
10	MP1B	X	11.771	5.25
11	MP1B	Z	-20.389	5.25
12	MP1B	Mx	1.177e-5	5.25
13	MP1C	X	15.505	1.25
14	MP1C	Z	-26.855	1.25
15	MP1C	Mx	1.015e-5	1.25
16	MP1C	X	15.505	5.25
17	MP1C	Z	-26.855	5.25
18	MP1C	Mx	1.015e-5	5.25
19	MP1A	X	16.749	1.25
20	MP1A	Z	-29.011	1.25
21	MP1A	Mx	2.233e-5	1.25
22	MP1A	X	16.749	5.25
23	MP1A	Z	-29.011	5.25
24	MP1A	Mx	2.233e-5	5.25
25	MP1B	X	11.771	1.25
26	MP1B	Z	-20.389	1.25
27	MP1B	Mx	1.177e-5	1.25
28	MP1B	X	11.771	5.25
29	MP1B	Z	-20.389	5.25
30	MP1B	Mx	1.177e-5	5.25
31	MP1C	X	15.505	1.25
32	MP1C	Z	-26.855	1.25
33	MP1C	Mx	-2.566e-5	1.25
34	MP1C	X	15.505	5.25
35	MP1C	Z	-26.855	5.25
36	MP1C	Mx	-2.566e-5	5.25
37	MP2A	X	16.749	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
38	MP2A	Z	-29.011	1.25
39	MP2A	Mx	-2.233e-5	1.25
40	MP2A	X	16.749	5.25
41	MP2A	Z	-29.011	5.25
42	MP2A	Mx	-2.233e-5	5.25
43	MP2B	X	11.771	1.25
44	MP2B	Z	-20.389	1.25
45	MP2B	Mx	1.177e-5	1.25
46	MP2B	X	11.771	5.25
47	MP2B	Z	-20.389	5.25
48	MP2B	Mx	1.177e-5	5.25
49	MP2C	X	15.505	1.25
50	MP2C	Z	-26.855	1.25
51	MP2C	Mx	1.015e-5	1.25
52	MP2C	X	15.505	5.25
53	MP2C	Z	-26.855	5.25
54	MP2C	Mx	1.015e-5	5.25
55	MP2A	X	16.749	1.25
56	MP2A	Z	-29.011	1.25
57	MP2A	Mx	2.233e-5	1.25
58	MP2A	X	16.749	5.25
59	MP2A	Z	-29.011	5.25
60	MP2A	Mx	2.233e-5	5.25
61	MP2B	X	11.771	1.25
62	MP2B	Z	-20.389	1.25
63	MP2B	Mx	1.177e-5	1.25
64	MP2B	X	11.771	5.25
65	MP2B	Z	-20.389	5.25
66	MP2B	Mx	1.177e-5	5.25
67	MP2C	X	15.505	1.25
68	MP2C	Z	-26.855	1.25
69	MP2C	Mx	-2.566e-5	1.25
70	MP2C	X	15.505	5.25
71	MP2C	Z	-26.855	5.25
72	MP2C	Mx	-2.566e-5	5.25
73	MP1A	X	8.718	4
74	MP1A	Z	-15.1	4
75	MP1A	Mx	-1.308e-5	4
76	MP1B	X	6.18	4
77	MP1B	Z	-10.704	4
78	MP1B	Mx	0	4
79	MP1C	X	8.083	4
80	MP1C	Z	-14.001	4
81	MP1C	Mx	1.05e-5	4
82	MP1A	X	8.718	4
83	MP1A	Z	-15.1	4
84	MP1A	Mx	1.308e-5	4
85	MP1B	X	5.215	4
86	MP1B	Z	-9.033	4
87	MP1B	Mx	0	4
88	MP1C	X	7.842	4
89	MP1C	Z	-13.583	4
90	MP1C	Mx	-1.019e-5	4
91	OVP	X	17.49	.75
92	OVP	Z	-30.294	.75
93	OVP	Mx	0	.75
94	OVP	X	13.822	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
95	OVP	Z	-23.94	.75
96	OVP	Mx	-2.073e-5	.75
97	MP1A	X	1.022	6.5
98	MP1A	Z	-1.77	6.5
99	MP1A	Mx	6.81e-7	6.5
100	MP1A	X	1.022	7.5
101	MP1A	Z	-1.77	7.5
102	MP1A	Mx	6.81e-7	7.5
103	MP1B	X	2.414	6.5
104	MP1B	Z	-4.182	6.5
105	MP1B	Mx	-4.829e-6	6.5
106	MP1B	X	2.414	7.5
107	MP1B	Z	-4.182	7.5
108	MP1B	Mx	-4.829e-6	7.5
109	MP1A	X	1.022	6.5
110	MP1A	Z	-1.77	6.5
111	MP1A	Mx	-6.81e-7	6.5
112	MP1A	X	1.022	7.5
113	MP1A	Z	-1.77	7.5
114	MP1A	Mx	-6.81e-7	7.5
115	MP1B	X	2.414	6.5
116	MP1B	Z	-4.182	6.5
117	MP1B	Mx	-4.829e-6	6.5
118	MP1B	X	2.414	7.5
119	MP1B	Z	-4.182	7.5
120	MP1B	Mx	-4.829e-6	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	26.855	1.25
2	MP1A	Z	-15.505	1.25
3	MP1A	Mx	-2.566e-5	1.25
4	MP1A	X	26.855	5.25
5	MP1A	Z	-15.505	5.25
6	MP1A	Mx	-2.566e-5	5.25
7	MP1B	X	22.544	1.25
8	MP1B	Z	-13.016	1.25
9	MP1B	Mx	2.595e-6	1.25
10	MP1B	X	22.544	5.25
11	MP1B	Z	-13.016	5.25
12	MP1B	Mx	2.595e-6	5.25
13	MP1C	X	29.011	1.25
14	MP1C	Z	-16.749	1.25
15	MP1C	Mx	2.233e-5	1.25
16	MP1C	X	29.011	5.25
17	MP1C	Z	-16.749	5.25
18	MP1C	Mx	2.233e-5	5.25
19	MP1A	X	26.855	1.25
20	MP1A	Z	-15.505	1.25
21	MP1A	Mx	1.015e-5	1.25
22	MP1A	X	26.855	5.25
23	MP1A	Z	-15.505	5.25
24	MP1A	Mx	1.015e-5	5.25
25	MP1B	X	22.544	1.25
26	MP1B	Z	-13.016	1.25
27	MP1B	Mx	1.995e-5	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
28	MP1B	X	22.544	5.25
29	MP1B	Z	-13.016	5.25
30	MP1B	Mx	1.995e-5	5.25
31	MP1C	X	29.011	1.25
32	MP1C	Z	-16.749	1.25
33	MP1C	Mx	-2.233e-5	1.25
34	MP1C	X	29.011	5.25
35	MP1C	Z	-16.749	5.25
36	MP1C	Mx	-2.233e-5	5.25
37	MP2A	X	26.855	1.25
38	MP2A	Z	-15.505	1.25
39	MP2A	Mx	-2.566e-5	1.25
40	MP2A	X	26.855	5.25
41	MP2A	Z	-15.505	5.25
42	MP2A	Mx	-2.566e-5	5.25
43	MP2B	X	22.544	1.25
44	MP2B	Z	-13.016	1.25
45	MP2B	Mx	2.595e-6	1.25
46	MP2B	X	22.544	5.25
47	MP2B	Z	-13.016	5.25
48	MP2B	Mx	2.595e-6	5.25
49	MP2C	X	29.011	1.25
50	MP2C	Z	-16.749	1.25
51	MP2C	Mx	2.233e-5	1.25
52	MP2C	X	29.011	5.25
53	MP2C	Z	-16.749	5.25
54	MP2C	Mx	2.233e-5	5.25
55	MP2A	X	26.855	1.25
56	MP2A	Z	-15.505	1.25
57	MP2A	Mx	1.015e-5	1.25
58	MP2A	X	26.855	5.25
59	MP2A	Z	-15.505	5.25
60	MP2A	Mx	1.015e-5	5.25
61	MP2B	X	22.544	1.25
62	MP2B	Z	-13.016	1.25
63	MP2B	Mx	1.995e-5	1.25
64	MP2B	X	22.544	5.25
65	MP2B	Z	-13.016	5.25
66	MP2B	Mx	1.995e-5	5.25
67	MP2C	X	29.011	1.25
68	MP2C	Z	-16.749	1.25
69	MP2C	Mx	-2.233e-5	1.25
70	MP2C	X	29.011	5.25
71	MP2C	Z	-16.749	5.25
72	MP2C	Mx	-2.233e-5	5.25
73	MP1A	X	14.001	4
74	MP1A	Z	-8.083	4
75	MP1A	Mx	-1.05e-5	4
76	MP1B	X	11.803	4
77	MP1B	Z	-6.814	4
78	MP1B	Mx	-5.111e-6	4
79	MP1C	X	15.1	4
80	MP1C	Z	-8.718	4
81	MP1C	Mx	1.308e-5	4
82	MP1A	X	13.583	4
83	MP1A	Z	-7.842	4
84	MP1A	Mx	1.019e-5	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
85	MP1B	X	10.55	4
86	MP1B	Z	-6.091	4
87	MP1B	Mx	4.568e-6	4
88	MP1C	X	15.1	4
89	MP1C	Z	-8.718	4
90	MP1C	Mx	-1.308e-5	4
91	OVP	X	28.705	.75
92	OVP	Z	-16.573	.75
93	OVP	Mx	1.243e-5	.75
94	OVP	X	25.528	.75
95	OVP	Z	-14.739	.75
96	OVP	Mx	-1.915e-5	.75
97	MP1A	X	2.373	6.5
98	MP1A	Z	-1.37	6.5
99	MP1A	Mx	2.161e-6	6.5
100	MP1A	X	2.373	7.5
101	MP1A	Z	-1.37	7.5
102	MP1A	Mx	2.161e-6	7.5
103	MP1B	X	3.579	6.5
104	MP1B	Z	-2.066	6.5
105	MP1B	Mx	-2.89e-6	6.5
106	MP1B	X	3.579	7.5
107	MP1B	Z	-2.066	7.5
108	MP1B	Mx	-2.89e-6	7.5
109	MP1A	X	2.373	6.5
110	MP1A	Z	-1.37	6.5
111	MP1A	Mx	5.79e-7	6.5
112	MP1A	X	2.373	7.5
113	MP1A	Z	-1.37	7.5
114	MP1A	Mx	5.79e-7	7.5
115	MP1B	X	3.579	6.5
116	MP1B	Z	-2.066	6.5
117	MP1B	Mx	-4.268e-6	6.5
118	MP1B	X	3.579	7.5
119	MP1B	Z	-2.066	7.5
120	MP1B	Mx	-4.268e-6	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	26.032	1.25
2	MP1A	Z	0	1.25
3	MP1A	Mx	-1.995e-5	1.25
4	MP1A	X	26.032	5.25
5	MP1A	Z	0	5.25
6	MP1A	Mx	-1.995e-5	5.25
7	MP1B	X	31.01	1.25
8	MP1B	Z	0	1.25
9	MP1B	Mx	-1.015e-5	1.25
10	MP1B	X	31.01	5.25
11	MP1B	Z	0	5.25
12	MP1B	Mx	-1.015e-5	5.25
13	MP1C	X	31.01	1.25
14	MP1C	Z	0	1.25
15	MP1C	Mx	2.566e-5	1.25
16	MP1C	X	31.01	5.25
17	MP1C	Z	0	5.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP1C	Mx	2.566e-5	5.25
19	MP1A	X	26.032	1.25
20	MP1A	Z	0	1.25
21	MP1A	Mx	-2.595e-6	1.25
22	MP1A	X	26.032	5.25
23	MP1A	Z	0	5.25
24	MP1A	Mx	-2.595e-6	5.25
25	MP1B	X	31.01	1.25
26	MP1B	Z	0	1.25
27	MP1B	Mx	2.566e-5	1.25
28	MP1B	X	31.01	5.25
29	MP1B	Z	0	5.25
30	MP1B	Mx	2.566e-5	5.25
31	MP1C	X	31.01	1.25
32	MP1C	Z	0	1.25
33	MP1C	Mx	-1.015e-5	1.25
34	MP1C	X	31.01	5.25
35	MP1C	Z	0	5.25
36	MP1C	Mx	-1.015e-5	5.25
37	MP2A	X	26.032	1.25
38	MP2A	Z	0	1.25
39	MP2A	Mx	-1.995e-5	1.25
40	MP2A	X	26.032	5.25
41	MP2A	Z	0	5.25
42	MP2A	Mx	-1.995e-5	5.25
43	MP2B	X	31.01	1.25
44	MP2B	Z	0	1.25
45	MP2B	Mx	-1.015e-5	1.25
46	MP2B	X	31.01	5.25
47	MP2B	Z	0	5.25
48	MP2B	Mx	-1.015e-5	5.25
49	MP2C	X	31.01	1.25
50	MP2C	Z	0	1.25
51	MP2C	Mx	2.566e-5	1.25
52	MP2C	X	31.01	5.25
53	MP2C	Z	0	5.25
54	MP2C	Mx	2.566e-5	5.25
55	MP2A	X	26.032	1.25
56	MP2A	Z	0	1.25
57	MP2A	Mx	-2.595e-6	1.25
58	MP2A	X	26.032	5.25
59	MP2A	Z	0	5.25
60	MP2A	Mx	-2.595e-6	5.25
61	MP2B	X	31.01	1.25
62	MP2B	Z	0	1.25
63	MP2B	Mx	2.566e-5	1.25
64	MP2B	X	31.01	5.25
65	MP2B	Z	0	5.25
66	MP2B	Mx	2.566e-5	5.25
67	MP2C	X	31.01	1.25
68	MP2C	Z	0	1.25
69	MP2C	Mx	-1.015e-5	1.25
70	MP2C	X	31.01	5.25
71	MP2C	Z	0	5.25
72	MP2C	Mx	-1.015e-5	5.25
73	MP1A	X	13.629	4
74	MP1A	Z	0	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
75	MP1A	Mx	-5.111e-6	4
76	MP1B	X	16.167	4
77	MP1B	Z	0	4
78	MP1B	Mx	-1.05e-5	4
79	MP1C	X	16.167	4
80	MP1C	Z	0	4
81	MP1C	Mx	1.05e-5	4
82	MP1A	X	12.182	4
83	MP1A	Z	0	4
84	MP1A	Mx	4.568e-6	4
85	MP1B	X	15.685	4
86	MP1B	Z	0	4
87	MP1B	Mx	1.019e-5	4
88	MP1C	X	15.685	4
89	MP1C	Z	0	4
90	MP1C	Mx	-1.019e-5	4
91	OVP	X	29.478	.75
92	OVP	Z	0	.75
93	OVP	Mx	1.915e-5	.75
94	OVP	X	33.146	.75
95	OVP	Z	0	.75
96	OVP	Mx	-1.243e-5	.75
97	MP1A	X	4.132	6.5
98	MP1A	Z	0	6.5
99	MP1A	Mx	4.267e-6	6.5
100	MP1A	X	4.132	7.5
101	MP1A	Z	0	7.5
102	MP1A	Mx	4.267e-6	7.5
103	MP1B	X	2.74	6.5
104	MP1B	Z	0	6.5
105	MP1B	Mx	-5.79e-7	6.5
106	MP1B	X	2.74	7.5
107	MP1B	Z	0	7.5
108	MP1B	Mx	-5.79e-7	7.5
109	MP1A	X	4.132	6.5
110	MP1A	Z	0	6.5
111	MP1A	Mx	2.89e-6	6.5
112	MP1A	X	4.132	7.5
113	MP1A	Z	0	7.5
114	MP1A	Mx	2.89e-6	7.5
115	MP1B	X	2.74	6.5
116	MP1B	Z	0	6.5
117	MP1B	Mx	-2.161e-6	6.5
118	MP1B	X	2.74	7.5
119	MP1B	Z	0	7.5
120	MP1B	Mx	-2.161e-6	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	20.389	1.25
2	MP1A	Z	11.771	1.25
3	MP1A	Mx	-1.177e-5	1.25
4	MP1A	X	20.389	5.25
5	MP1A	Z	11.771	5.25
6	MP1A	Mx	-1.177e-5	5.25
7	MP1B	X	29.011	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP1B	Z	16.749	1.25
9	MP1B	Mx	-2.233e-5	1.25
10	MP1B	X	29.011	5.25
11	MP1B	Z	16.749	5.25
12	MP1B	Mx	-2.233e-5	5.25
13	MP1C	X	22.544	1.25
14	MP1C	Z	13.016	1.25
15	MP1C	Mx	1.995e-5	1.25
16	MP1C	X	22.544	5.25
17	MP1C	Z	13.016	5.25
18	MP1C	Mx	1.995e-5	5.25
19	MP1A	X	20.389	1.25
20	MP1A	Z	11.771	1.25
21	MP1A	Mx	-1.177e-5	1.25
22	MP1A	X	20.389	5.25
23	MP1A	Z	11.771	5.25
24	MP1A	Mx	-1.177e-5	5.25
25	MP1B	X	29.011	1.25
26	MP1B	Z	16.749	1.25
27	MP1B	Mx	2.233e-5	1.25
28	MP1B	X	29.011	5.25
29	MP1B	Z	16.749	5.25
30	MP1B	Mx	2.233e-5	5.25
31	MP1C	X	22.544	1.25
32	MP1C	Z	13.016	1.25
33	MP1C	Mx	2.595e-6	1.25
34	MP1C	X	22.544	5.25
35	MP1C	Z	13.016	5.25
36	MP1C	Mx	2.595e-6	5.25
37	MP2A	X	20.389	1.25
38	MP2A	Z	11.771	1.25
39	MP2A	Mx	-1.177e-5	1.25
40	MP2A	X	20.389	5.25
41	MP2A	Z	11.771	5.25
42	MP2A	Mx	-1.177e-5	5.25
43	MP2B	X	29.011	1.25
44	MP2B	Z	16.749	1.25
45	MP2B	Mx	-2.233e-5	1.25
46	MP2B	X	29.011	5.25
47	MP2B	Z	16.749	5.25
48	MP2B	Mx	-2.233e-5	5.25
49	MP2C	X	22.544	1.25
50	MP2C	Z	13.016	1.25
51	MP2C	Mx	1.995e-5	1.25
52	MP2C	X	22.544	5.25
53	MP2C	Z	13.016	5.25
54	MP2C	Mx	1.995e-5	5.25
55	MP2A	X	20.389	1.25
56	MP2A	Z	11.771	1.25
57	MP2A	Mx	-1.177e-5	1.25
58	MP2A	X	20.389	5.25
59	MP2A	Z	11.771	5.25
60	MP2A	Mx	-1.177e-5	5.25
61	MP2B	X	29.011	1.25
62	MP2B	Z	16.749	1.25
63	MP2B	Mx	2.233e-5	1.25
64	MP2B	X	29.011	5.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
65	MP2B	Z	16.749	5.25
66	MP2B	Mx	2.233e-5	5.25
67	MP2C	X	22.544	1.25
68	MP2C	Z	13.016	1.25
69	MP2C	Mx	2.595e-6	1.25
70	MP2C	X	22.544	5.25
71	MP2C	Z	13.016	5.25
72	MP2C	Mx	2.595e-6	5.25
73	MP1A	X	10.704	4
74	MP1A	Z	6.18	4
75	MP1A	Mx	0	4
76	MP1B	X	15.1	4
77	MP1B	Z	8.718	4
78	MP1B	Mx	-1.308e-5	4
79	MP1C	X	11.803	4
80	MP1C	Z	6.814	4
81	MP1C	Mx	5.111e-6	4
82	MP1A	X	9.033	4
83	MP1A	Z	5.215	4
84	MP1A	Mx	0	4
85	MP1B	X	15.1	4
86	MP1B	Z	8.718	4
87	MP1B	Mx	1.308e-5	4
88	MP1C	X	10.55	4
89	MP1C	Z	6.091	4
90	MP1C	Mx	-4.568e-6	4
91	OVP	X	23.94	.75
92	OVP	Z	13.822	.75
93	OVP	Mx	2.073e-5	.75
94	OVP	X	30.294	.75
95	OVP	Z	17.49	.75
96	OVP	Mx	0	.75
97	MP1A	X	4.182	6.5
98	MP1A	Z	2.414	6.5
99	MP1A	Mx	4.829e-6	6.5
100	MP1A	X	4.182	7.5
101	MP1A	Z	2.414	7.5
102	MP1A	Mx	4.829e-6	7.5
103	MP1B	X	1.77	6.5
104	MP1B	Z	1.022	6.5
105	MP1B	Mx	6.81e-7	6.5
106	MP1B	X	1.77	7.5
107	MP1B	Z	1.022	7.5
108	MP1B	Mx	6.81e-7	7.5
109	MP1A	X	4.182	6.5
110	MP1A	Z	2.414	6.5
111	MP1A	Mx	4.829e-6	6.5
112	MP1A	X	4.182	7.5
113	MP1A	Z	2.414	7.5
114	MP1A	Mx	4.829e-6	7.5
115	MP1B	X	1.77	6.5
116	MP1B	Z	1.022	6.5
117	MP1B	Mx	-6.81e-7	6.5
118	MP1B	X	1.77	7.5
119	MP1B	Z	1.022	7.5
120	MP1B	Mx	-6.81e-7	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	13.016	1.25
2	MP1A	Z	22.544	1.25
3	MP1A	Mx	-2.595e-6	1.25
4	MP1A	X	13.016	5.25
5	MP1A	Z	22.544	5.25
6	MP1A	Mx	-2.595e-6	5.25
7	MP1B	X	15.505	1.25
8	MP1B	Z	26.855	1.25
9	MP1B	Mx	-2.566e-5	1.25
10	MP1B	X	15.505	5.25
11	MP1B	Z	26.855	5.25
12	MP1B	Mx	-2.566e-5	5.25
13	MP1C	X	11.771	1.25
14	MP1C	Z	20.389	1.25
15	MP1C	Mx	1.177e-5	1.25
16	MP1C	X	11.771	5.25
17	MP1C	Z	20.389	5.25
18	MP1C	Mx	1.177e-5	5.25
19	MP1A	X	13.016	1.25
20	MP1A	Z	22.544	1.25
21	MP1A	Mx	-1.995e-5	1.25
22	MP1A	X	13.016	5.25
23	MP1A	Z	22.544	5.25
24	MP1A	Mx	-1.995e-5	5.25
25	MP1B	X	15.505	1.25
26	MP1B	Z	26.855	1.25
27	MP1B	Mx	1.015e-5	1.25
28	MP1B	X	15.505	5.25
29	MP1B	Z	26.855	5.25
30	MP1B	Mx	1.015e-5	5.25
31	MP1C	X	11.771	1.25
32	MP1C	Z	20.389	1.25
33	MP1C	Mx	1.177e-5	1.25
34	MP1C	X	11.771	5.25
35	MP1C	Z	20.389	5.25
36	MP1C	Mx	1.177e-5	5.25
37	MP2A	X	13.016	1.25
38	MP2A	Z	22.544	1.25
39	MP2A	Mx	-2.595e-6	1.25
40	MP2A	X	13.016	5.25
41	MP2A	Z	22.544	5.25
42	MP2A	Mx	-2.595e-6	5.25
43	MP2B	X	15.505	1.25
44	MP2B	Z	26.855	1.25
45	MP2B	Mx	-2.566e-5	1.25
46	MP2B	X	15.505	5.25
47	MP2B	Z	26.855	5.25
48	MP2B	Mx	-2.566e-5	5.25
49	MP2C	X	11.771	1.25
50	MP2C	Z	20.389	1.25
51	MP2C	Mx	1.177e-5	1.25
52	MP2C	X	11.771	5.25
53	MP2C	Z	20.389	5.25
54	MP2C	Mx	1.177e-5	5.25
55	MP2A	X	13.016	1.25
56	MP2A	Z	22.544	1.25
57	MP2A	Mx	-1.995e-5	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2A	X	13.016	5.25
59	MP2A	Z	22.544	5.25
60	MP2A	Mx	-1.995e-5	5.25
61	MP2B	X	15.505	1.25
62	MP2B	Z	26.855	1.25
63	MP2B	Mx	1.015e-5	1.25
64	MP2B	X	15.505	5.25
65	MP2B	Z	26.855	5.25
66	MP2B	Mx	1.015e-5	5.25
67	MP2C	X	11.771	1.25
68	MP2C	Z	20.389	1.25
69	MP2C	Mx	1.177e-5	1.25
70	MP2C	X	11.771	5.25
71	MP2C	Z	20.389	5.25
72	MP2C	Mx	1.177e-5	5.25
73	MP1A	X	6.814	4
74	MP1A	Z	11.803	4
75	MP1A	Mx	5.111e-6	4
76	MP1B	X	8.083	4
77	MP1B	Z	14.001	4
78	MP1B	Mx	-1.05e-5	4
79	MP1C	X	6.18	4
80	MP1C	Z	10.704	4
81	MP1C	Mx	0	4
82	MP1A	X	6.091	4
83	MP1A	Z	10.55	4
84	MP1A	Mx	-4.568e-6	4
85	MP1B	X	7.842	4
86	MP1B	Z	13.583	4
87	MP1B	Mx	1.019e-5	4
88	MP1C	X	5.215	4
89	MP1C	Z	9.033	4
90	MP1C	Mx	0	4
91	OVP	X	14.739	.75
92	OVP	Z	25.528	.75
93	OVP	Mx	1.915e-5	.75
94	OVP	X	16.573	.75
95	OVP	Z	28.705	.75
96	OVP	Mx	1.243e-5	.75
97	MP1A	X	2.066	6.5
98	MP1A	Z	3.579	6.5
99	MP1A	Mx	2.89e-6	6.5
100	MP1A	X	2.066	7.5
101	MP1A	Z	3.579	7.5
102	MP1A	Mx	2.89e-6	7.5
103	MP1B	X	1.37	6.5
104	MP1B	Z	2.373	6.5
105	MP1B	Mx	2.161e-6	6.5
106	MP1B	X	1.37	7.5
107	MP1B	Z	2.373	7.5
108	MP1B	Mx	2.161e-6	7.5
109	MP1A	X	2.066	6.5
110	MP1A	Z	3.579	6.5
111	MP1A	Mx	4.268e-6	6.5
112	MP1A	X	2.066	7.5
113	MP1A	Z	3.579	7.5
114	MP1A	Mx	4.268e-6	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
115	MP1B	X	1.37	6.5
116	MP1B	Z	2.373	6.5
117	MP1B	Mx	5.79e-7	6.5
118	MP1B	X	1.37	7.5
119	MP1B	Z	2.373	7.5
120	MP1B	Mx	5.79e-7	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	1.25
2	MP1A	Z	31.01	1.25
3	MP1A	Mx	1.015e-5	1.25
4	MP1A	X	0	5.25
5	MP1A	Z	31.01	5.25
6	MP1A	Mx	1.015e-5	5.25
7	MP1B	X	0	1.25
8	MP1B	Z	26.032	1.25
9	MP1B	Mx	-1.995e-5	1.25
10	MP1B	X	0	5.25
11	MP1B	Z	26.032	5.25
12	MP1B	Mx	-1.995e-5	5.25
13	MP1C	X	0	1.25
14	MP1C	Z	26.032	1.25
15	MP1C	Mx	2.595e-6	1.25
16	MP1C	X	0	5.25
17	MP1C	Z	26.032	5.25
18	MP1C	Mx	2.595e-6	5.25
19	MP1A	X	0	1.25
20	MP1A	Z	31.01	1.25
21	MP1A	Mx	-2.566e-5	1.25
22	MP1A	X	0	5.25
23	MP1A	Z	31.01	5.25
24	MP1A	Mx	-2.566e-5	5.25
25	MP1B	X	0	1.25
26	MP1B	Z	26.032	1.25
27	MP1B	Mx	-2.595e-6	1.25
28	MP1B	X	0	5.25
29	MP1B	Z	26.032	5.25
30	MP1B	Mx	-2.595e-6	5.25
31	MP1C	X	0	1.25
32	MP1C	Z	26.032	1.25
33	MP1C	Mx	1.995e-5	1.25
34	MP1C	X	0	5.25
35	MP1C	Z	26.032	5.25
36	MP1C	Mx	1.995e-5	5.25
37	MP2A	X	0	1.25
38	MP2A	Z	31.01	1.25
39	MP2A	Mx	1.015e-5	1.25
40	MP2A	X	0	5.25
41	MP2A	Z	31.01	5.25
42	MP2A	Mx	1.015e-5	5.25
43	MP2B	X	0	1.25
44	MP2B	Z	26.032	1.25
45	MP2B	Mx	-1.995e-5	1.25
46	MP2B	X	0	5.25
47	MP2B	Z	26.032	5.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
48	MP2B	Mx	-1.995e-5	5.25
49	MP2C	X	0	1.25
50	MP2C	Z	26.032	1.25
51	MP2C	Mx	2.595e-6	1.25
52	MP2C	X	0	5.25
53	MP2C	Z	26.032	5.25
54	MP2C	Mx	2.595e-6	5.25
55	MP2A	X	0	1.25
56	MP2A	Z	31.01	1.25
57	MP2A	Mx	-2.566e-5	1.25
58	MP2A	X	0	5.25
59	MP2A	Z	31.01	5.25
60	MP2A	Mx	-2.566e-5	5.25
61	MP2B	X	0	1.25
62	MP2B	Z	26.032	1.25
63	MP2B	Mx	-2.595e-6	1.25
64	MP2B	X	0	5.25
65	MP2B	Z	26.032	5.25
66	MP2B	Mx	-2.595e-6	5.25
67	MP2C	X	0	1.25
68	MP2C	Z	26.032	1.25
69	MP2C	Mx	1.995e-5	1.25
70	MP2C	X	0	5.25
71	MP2C	Z	26.032	5.25
72	MP2C	Mx	1.995e-5	5.25
73	MP1A	X	0	4
74	MP1A	Z	16.167	4
75	MP1A	Mx	1.05e-5	4
76	MP1B	X	0	4
77	MP1B	Z	13.629	4
78	MP1B	Mx	-5.111e-6	4
79	MP1C	X	0	4
80	MP1C	Z	13.629	4
81	MP1C	Mx	-5.111e-6	4
82	MP1A	X	0	4
83	MP1A	Z	15.685	4
84	MP1A	Mx	-1.019e-5	4
85	MP1B	X	0	4
86	MP1B	Z	12.182	4
87	MP1B	Mx	4.568e-6	4
88	MP1C	X	0	4
89	MP1C	Z	12.182	4
90	MP1C	Mx	4.568e-6	4
91	OVP	X	0	.75
92	OVP	Z	33.146	.75
93	OVP	Mx	1.243e-5	.75
94	OVP	X	0	.75
95	OVP	Z	29.478	.75
96	OVP	Mx	1.915e-5	.75
97	MP1A	X	0	6.5
98	MP1A	Z	2.74	6.5
99	MP1A	Mx	5.79e-7	6.5
100	MP1A	X	0	7.5
101	MP1A	Z	2.74	7.5
102	MP1A	Mx	5.79e-7	7.5
103	MP1B	X	0	6.5
104	MP1B	Z	4.132	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
105	MP1B	Mx	4.267e-6	6.5
106	MP1B	X	0	7.5
107	MP1B	Z	4.132	7.5
108	MP1B	Mx	4.267e-6	7.5
109	MP1A	X	0	6.5
110	MP1A	Z	2.74	6.5
111	MP1A	Mx	2.161e-6	6.5
112	MP1A	X	0	7.5
113	MP1A	Z	2.74	7.5
114	MP1A	Mx	2.161e-6	7.5
115	MP1B	X	0	6.5
116	MP1B	Z	4.132	6.5
117	MP1B	Mx	2.89e-6	6.5
118	MP1B	X	0	7.5
119	MP1B	Z	4.132	7.5
120	MP1B	Mx	2.89e-6	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-16.749	1.25
2	MP1A	Z	29.011	1.25
3	MP1A	Mx	2.233e-5	1.25
4	MP1A	X	-16.749	5.25
5	MP1A	Z	29.011	5.25
6	MP1A	Mx	2.233e-5	5.25
7	MP1B	X	-11.771	1.25
8	MP1B	Z	20.389	1.25
9	MP1B	Mx	-1.177e-5	1.25
10	MP1B	X	-11.771	5.25
11	MP1B	Z	20.389	5.25
12	MP1B	Mx	-1.177e-5	5.25
13	MP1C	X	-15.505	1.25
14	MP1C	Z	26.855	1.25
15	MP1C	Mx	-1.015e-5	1.25
16	MP1C	X	-15.505	5.25
17	MP1C	Z	26.855	5.25
18	MP1C	Mx	-1.015e-5	5.25
19	MP1A	X	-16.749	1.25
20	MP1A	Z	29.011	1.25
21	MP1A	Mx	-2.233e-5	1.25
22	MP1A	X	-16.749	5.25
23	MP1A	Z	29.011	5.25
24	MP1A	Mx	-2.233e-5	5.25
25	MP1B	X	-11.771	1.25
26	MP1B	Z	20.389	1.25
27	MP1B	Mx	-1.177e-5	1.25
28	MP1B	X	-11.771	5.25
29	MP1B	Z	20.389	5.25
30	MP1B	Mx	-1.177e-5	5.25
31	MP1C	X	-15.505	1.25
32	MP1C	Z	26.855	1.25
33	MP1C	Mx	2.566e-5	1.25
34	MP1C	X	-15.505	5.25
35	MP1C	Z	26.855	5.25
36	MP1C	Mx	2.566e-5	5.25
37	MP2A	X	-16.749	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
38	MP2A	Z	29.011	1.25
39	MP2A	Mx	2.233e-5	1.25
40	MP2A	X	-16.749	5.25
41	MP2A	Z	29.011	5.25
42	MP2A	Mx	2.233e-5	5.25
43	MP2B	X	-11.771	1.25
44	MP2B	Z	20.389	1.25
45	MP2B	Mx	-1.177e-5	1.25
46	MP2B	X	-11.771	5.25
47	MP2B	Z	20.389	5.25
48	MP2B	Mx	-1.177e-5	5.25
49	MP2C	X	-15.505	1.25
50	MP2C	Z	26.855	1.25
51	MP2C	Mx	-1.015e-5	1.25
52	MP2C	X	-15.505	5.25
53	MP2C	Z	26.855	5.25
54	MP2C	Mx	-1.015e-5	5.25
55	MP2A	X	-16.749	1.25
56	MP2A	Z	29.011	1.25
57	MP2A	Mx	-2.233e-5	1.25
58	MP2A	X	-16.749	5.25
59	MP2A	Z	29.011	5.25
60	MP2A	Mx	-2.233e-5	5.25
61	MP2B	X	-11.771	1.25
62	MP2B	Z	20.389	1.25
63	MP2B	Mx	-1.177e-5	1.25
64	MP2B	X	-11.771	5.25
65	MP2B	Z	20.389	5.25
66	MP2B	Mx	-1.177e-5	5.25
67	MP2C	X	-15.505	1.25
68	MP2C	Z	26.855	1.25
69	MP2C	Mx	2.566e-5	1.25
70	MP2C	X	-15.505	5.25
71	MP2C	Z	26.855	5.25
72	MP2C	Mx	2.566e-5	5.25
73	MP1A	X	-8.718	4
74	MP1A	Z	15.1	4
75	MP1A	Mx	1.308e-5	4
76	MP1B	X	-6.18	4
77	MP1B	Z	10.704	4
78	MP1B	Mx	0	4
79	MP1C	X	-8.083	4
80	MP1C	Z	14.001	4
81	MP1C	Mx	-1.05e-5	4
82	MP1A	X	-8.718	4
83	MP1A	Z	15.1	4
84	MP1A	Mx	-1.308e-5	4
85	MP1B	X	-5.215	4
86	MP1B	Z	9.033	4
87	MP1B	Mx	0	4
88	MP1C	X	-7.842	4
89	MP1C	Z	13.583	4
90	MP1C	Mx	1.019e-5	4
91	OVP	X	-17.49	.75
92	OVP	Z	30.294	.75
93	OVP	Mx	0	.75
94	OVP	X	-13.822	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
95	OVP	Z	23.94	.75
96	OVP	Mx	2.073e-5	.75
97	MP1A	X	-1.022	6.5
98	MP1A	Z	1.77	6.5
99	MP1A	Mx	-6.81e-7	6.5
100	MP1A	X	-1.022	7.5
101	MP1A	Z	1.77	7.5
102	MP1A	Mx	-6.81e-7	7.5
103	MP1B	X	-2.414	6.5
104	MP1B	Z	4.182	6.5
105	MP1B	Mx	4.829e-6	6.5
106	MP1B	X	-2.414	7.5
107	MP1B	Z	4.182	7.5
108	MP1B	Mx	4.829e-6	7.5
109	MP1A	X	-1.022	6.5
110	MP1A	Z	1.77	6.5
111	MP1A	Mx	6.81e-7	6.5
112	MP1A	X	-1.022	7.5
113	MP1A	Z	1.77	7.5
114	MP1A	Mx	6.81e-7	7.5
115	MP1B	X	-2.414	6.5
116	MP1B	Z	4.182	6.5
117	MP1B	Mx	4.829e-6	6.5
118	MP1B	X	-2.414	7.5
119	MP1B	Z	4.182	7.5
120	MP1B	Mx	4.829e-6	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-26.855	1.25
2	MP1A	Z	15.505	1.25
3	MP1A	Mx	2.566e-5	1.25
4	MP1A	X	-26.855	5.25
5	MP1A	Z	15.505	5.25
6	MP1A	Mx	2.566e-5	5.25
7	MP1B	X	-22.544	1.25
8	MP1B	Z	13.016	1.25
9	MP1B	Mx	-2.595e-6	1.25
10	MP1B	X	-22.544	5.25
11	MP1B	Z	13.016	5.25
12	MP1B	Mx	-2.595e-6	5.25
13	MP1C	X	-29.011	1.25
14	MP1C	Z	16.749	1.25
15	MP1C	Mx	-2.233e-5	1.25
16	MP1C	X	-29.011	5.25
17	MP1C	Z	16.749	5.25
18	MP1C	Mx	-2.233e-5	5.25
19	MP1A	X	-26.855	1.25
20	MP1A	Z	15.505	1.25
21	MP1A	Mx	-1.015e-5	1.25
22	MP1A	X	-26.855	5.25
23	MP1A	Z	15.505	5.25
24	MP1A	Mx	-1.015e-5	5.25
25	MP1B	X	-22.544	1.25
26	MP1B	Z	13.016	1.25
27	MP1B	Mx	-1.995e-5	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
28	MP1B	X	-22.544	5.25
29	MP1B	Z	13.016	5.25
30	MP1B	Mx	-1.995e-5	5.25
31	MP1C	X	-29.011	1.25
32	MP1C	Z	16.749	1.25
33	MP1C	Mx	2.233e-5	1.25
34	MP1C	X	-29.011	5.25
35	MP1C	Z	16.749	5.25
36	MP1C	Mx	2.233e-5	5.25
37	MP2A	X	-26.855	1.25
38	MP2A	Z	15.505	1.25
39	MP2A	Mx	2.566e-5	1.25
40	MP2A	X	-26.855	5.25
41	MP2A	Z	15.505	5.25
42	MP2A	Mx	2.566e-5	5.25
43	MP2B	X	-22.544	1.25
44	MP2B	Z	13.016	1.25
45	MP2B	Mx	-2.595e-6	1.25
46	MP2B	X	-22.544	5.25
47	MP2B	Z	13.016	5.25
48	MP2B	Mx	-2.595e-6	5.25
49	MP2C	X	-29.011	1.25
50	MP2C	Z	16.749	1.25
51	MP2C	Mx	-2.233e-5	1.25
52	MP2C	X	-29.011	5.25
53	MP2C	Z	16.749	5.25
54	MP2C	Mx	-2.233e-5	5.25
55	MP2A	X	-26.855	1.25
56	MP2A	Z	15.505	1.25
57	MP2A	Mx	-1.015e-5	1.25
58	MP2A	X	-26.855	5.25
59	MP2A	Z	15.505	5.25
60	MP2A	Mx	-1.015e-5	5.25
61	MP2B	X	-22.544	1.25
62	MP2B	Z	13.016	1.25
63	MP2B	Mx	-1.995e-5	1.25
64	MP2B	X	-22.544	5.25
65	MP2B	Z	13.016	5.25
66	MP2B	Mx	-1.995e-5	5.25
67	MP2C	X	-29.011	1.25
68	MP2C	Z	16.749	1.25
69	MP2C	Mx	2.233e-5	1.25
70	MP2C	X	-29.011	5.25
71	MP2C	Z	16.749	5.25
72	MP2C	Mx	2.233e-5	5.25
73	MP1A	X	-14.001	4
74	MP1A	Z	8.083	4
75	MP1A	Mx	1.05e-5	4
76	MP1B	X	-11.803	4
77	MP1B	Z	6.814	4
78	MP1B	Mx	5.111e-6	4
79	MP1C	X	-15.1	4
80	MP1C	Z	8.718	4
81	MP1C	Mx	-1.308e-5	4
82	MP1A	X	-13.583	4
83	MP1A	Z	7.842	4
84	MP1A	Mx	-1.019e-5	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
85	MP1B	X	-10.55	4
86	MP1B	Z	6.091	4
87	MP1B	Mx	-4.568e-6	4
88	MP1C	X	-15.1	4
89	MP1C	Z	8.718	4
90	MP1C	Mx	1.308e-5	4
91	OVP	X	-28.705	.75
92	OVP	Z	16.573	.75
93	OVP	Mx	-1.243e-5	.75
94	OVP	X	-25.528	.75
95	OVP	Z	14.739	.75
96	OVP	Mx	1.915e-5	.75
97	MP1A	X	-2.373	6.5
98	MP1A	Z	1.37	6.5
99	MP1A	Mx	-2.161e-6	6.5
100	MP1A	X	-2.373	7.5
101	MP1A	Z	1.37	7.5
102	MP1A	Mx	-2.161e-6	7.5
103	MP1B	X	-3.579	6.5
104	MP1B	Z	2.066	6.5
105	MP1B	Mx	2.89e-6	6.5
106	MP1B	X	-3.579	7.5
107	MP1B	Z	2.066	7.5
108	MP1B	Mx	2.89e-6	7.5
109	MP1A	X	-2.373	6.5
110	MP1A	Z	1.37	6.5
111	MP1A	Mx	-5.79e-7	6.5
112	MP1A	X	-2.373	7.5
113	MP1A	Z	1.37	7.5
114	MP1A	Mx	-5.79e-7	7.5
115	MP1B	X	-3.579	6.5
116	MP1B	Z	2.066	6.5
117	MP1B	Mx	4.268e-6	6.5
118	MP1B	X	-3.579	7.5
119	MP1B	Z	2.066	7.5
120	MP1B	Mx	4.268e-6	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-26.032	1.25
2	MP1A	Z	0	1.25
3	MP1A	Mx	1.995e-5	1.25
4	MP1A	X	-26.032	5.25
5	MP1A	Z	0	5.25
6	MP1A	Mx	1.995e-5	5.25
7	MP1B	X	-31.01	1.25
8	MP1B	Z	0	1.25
9	MP1B	Mx	1.015e-5	1.25
10	MP1B	X	-31.01	5.25
11	MP1B	Z	0	5.25
12	MP1B	Mx	1.015e-5	5.25
13	MP1C	X	-31.01	1.25
14	MP1C	Z	0	1.25
15	MP1C	Mx	-2.566e-5	1.25
16	MP1C	X	-31.01	5.25
17	MP1C	Z	0	5.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP1C	Mx	-2.566e-5	5.25
19	MP1A	X	-26.032	1.25
20	MP1A	Z	0	1.25
21	MP1A	Mx	2.595e-6	1.25
22	MP1A	X	-26.032	5.25
23	MP1A	Z	0	5.25
24	MP1A	Mx	2.595e-6	5.25
25	MP1B	X	-31.01	1.25
26	MP1B	Z	0	1.25
27	MP1B	Mx	-2.566e-5	1.25
28	MP1B	X	-31.01	5.25
29	MP1B	Z	0	5.25
30	MP1B	Mx	-2.566e-5	5.25
31	MP1C	X	-31.01	1.25
32	MP1C	Z	0	1.25
33	MP1C	Mx	1.015e-5	1.25
34	MP1C	X	-31.01	5.25
35	MP1C	Z	0	5.25
36	MP1C	Mx	1.015e-5	5.25
37	MP2A	X	-26.032	1.25
38	MP2A	Z	0	1.25
39	MP2A	Mx	1.995e-5	1.25
40	MP2A	X	-26.032	5.25
41	MP2A	Z	0	5.25
42	MP2A	Mx	1.995e-5	5.25
43	MP2B	X	-31.01	1.25
44	MP2B	Z	0	1.25
45	MP2B	Mx	1.015e-5	1.25
46	MP2B	X	-31.01	5.25
47	MP2B	Z	0	5.25
48	MP2B	Mx	1.015e-5	5.25
49	MP2C	X	-31.01	1.25
50	MP2C	Z	0	1.25
51	MP2C	Mx	-2.566e-5	1.25
52	MP2C	X	-31.01	5.25
53	MP2C	Z	0	5.25
54	MP2C	Mx	-2.566e-5	5.25
55	MP2A	X	-26.032	1.25
56	MP2A	Z	0	1.25
57	MP2A	Mx	2.595e-6	1.25
58	MP2A	X	-26.032	5.25
59	MP2A	Z	0	5.25
60	MP2A	Mx	2.595e-6	5.25
61	MP2B	X	-31.01	1.25
62	MP2B	Z	0	1.25
63	MP2B	Mx	-2.566e-5	1.25
64	MP2B	X	-31.01	5.25
65	MP2B	Z	0	5.25
66	MP2B	Mx	-2.566e-5	5.25
67	MP2C	X	-31.01	1.25
68	MP2C	Z	0	1.25
69	MP2C	Mx	1.015e-5	1.25
70	MP2C	X	-31.01	5.25
71	MP2C	Z	0	5.25
72	MP2C	Mx	1.015e-5	5.25
73	MP1A	X	-13.629	4
74	MP1A	Z	0	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
75	MP1A	Mx	5.111e-6	4
76	MP1B	X	-16.167	4
77	MP1B	Z	0	4
78	MP1B	Mx	1.05e-5	4
79	MP1C	X	-16.167	4
80	MP1C	Z	0	4
81	MP1C	Mx	-1.05e-5	4
82	MP1A	X	-12.182	4
83	MP1A	Z	0	4
84	MP1A	Mx	-4.568e-6	4
85	MP1B	X	-15.685	4
86	MP1B	Z	0	4
87	MP1B	Mx	-1.019e-5	4
88	MP1C	X	-15.685	4
89	MP1C	Z	0	4
90	MP1C	Mx	1.019e-5	4
91	OVP	X	-29.478	.75
92	OVP	Z	0	.75
93	OVP	Mx	-1.915e-5	.75
94	OVP	X	-33.146	.75
95	OVP	Z	0	.75
96	OVP	Mx	1.243e-5	.75
97	MP1A	X	-4.132	6.5
98	MP1A	Z	0	6.5
99	MP1A	Mx	-4.267e-6	6.5
100	MP1A	X	-4.132	7.5
101	MP1A	Z	0	7.5
102	MP1A	Mx	-4.267e-6	7.5
103	MP1B	X	-2.74	6.5
104	MP1B	Z	0	6.5
105	MP1B	Mx	5.79e-7	6.5
106	MP1B	X	-2.74	7.5
107	MP1B	Z	0	7.5
108	MP1B	Mx	5.79e-7	7.5
109	MP1A	X	-4.132	6.5
110	MP1A	Z	0	6.5
111	MP1A	Mx	-2.89e-6	6.5
112	MP1A	X	-4.132	7.5
113	MP1A	Z	0	7.5
114	MP1A	Mx	-2.89e-6	7.5
115	MP1B	X	-2.74	6.5
116	MP1B	Z	0	6.5
117	MP1B	Mx	2.161e-6	6.5
118	MP1B	X	-2.74	7.5
119	MP1B	Z	0	7.5
120	MP1B	Mx	2.161e-6	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-20.389	1.25
2	MP1A	Z	-11.771	1.25
3	MP1A	Mx	1.177e-5	1.25
4	MP1A	X	-20.389	5.25
5	MP1A	Z	-11.771	5.25
6	MP1A	Mx	1.177e-5	5.25
7	MP1B	X	-29.011	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP1B	Z	-16.749	1.25
9	MP1B	Mx	2.233e-5	1.25
10	MP1B	X	-29.011	5.25
11	MP1B	Z	-16.749	5.25
12	MP1B	Mx	2.233e-5	5.25
13	MP1C	X	-22.544	1.25
14	MP1C	Z	-13.016	1.25
15	MP1C	Mx	-1.995e-5	1.25
16	MP1C	X	-22.544	5.25
17	MP1C	Z	-13.016	5.25
18	MP1C	Mx	-1.995e-5	5.25
19	MP1A	X	-20.389	1.25
20	MP1A	Z	-11.771	1.25
21	MP1A	Mx	1.177e-5	1.25
22	MP1A	X	-20.389	5.25
23	MP1A	Z	-11.771	5.25
24	MP1A	Mx	1.177e-5	5.25
25	MP1B	X	-29.011	1.25
26	MP1B	Z	-16.749	1.25
27	MP1B	Mx	-2.233e-5	1.25
28	MP1B	X	-29.011	5.25
29	MP1B	Z	-16.749	5.25
30	MP1B	Mx	-2.233e-5	5.25
31	MP1C	X	-22.544	1.25
32	MP1C	Z	-13.016	1.25
33	MP1C	Mx	-2.595e-6	1.25
34	MP1C	X	-22.544	5.25
35	MP1C	Z	-13.016	5.25
36	MP1C	Mx	-2.595e-6	5.25
37	MP2A	X	-20.389	1.25
38	MP2A	Z	-11.771	1.25
39	MP2A	Mx	1.177e-5	1.25
40	MP2A	X	-20.389	5.25
41	MP2A	Z	-11.771	5.25
42	MP2A	Mx	1.177e-5	5.25
43	MP2B	X	-29.011	1.25
44	MP2B	Z	-16.749	1.25
45	MP2B	Mx	2.233e-5	1.25
46	MP2B	X	-29.011	5.25
47	MP2B	Z	-16.749	5.25
48	MP2B	Mx	2.233e-5	5.25
49	MP2C	X	-22.544	1.25
50	MP2C	Z	-13.016	1.25
51	MP2C	Mx	-1.995e-5	1.25
52	MP2C	X	-22.544	5.25
53	MP2C	Z	-13.016	5.25
54	MP2C	Mx	-1.995e-5	5.25
55	MP2A	X	-20.389	1.25
56	MP2A	Z	-11.771	1.25
57	MP2A	Mx	1.177e-5	1.25
58	MP2A	X	-20.389	5.25
59	MP2A	Z	-11.771	5.25
60	MP2A	Mx	1.177e-5	5.25
61	MP2B	X	-29.011	1.25
62	MP2B	Z	-16.749	1.25
63	MP2B	Mx	-2.233e-5	1.25
64	MP2B	X	-29.011	5.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
65	MP2B	Z	-16.749	5.25
66	MP2B	Mx	-2.233e-5	5.25
67	MP2C	X	-22.544	1.25
68	MP2C	Z	-13.016	1.25
69	MP2C	Mx	-2.595e-6	1.25
70	MP2C	X	-22.544	5.25
71	MP2C	Z	-13.016	5.25
72	MP2C	Mx	-2.595e-6	5.25
73	MP1A	X	-10.704	4
74	MP1A	Z	-6.18	4
75	MP1A	Mx	0	4
76	MP1B	X	-15.1	4
77	MP1B	Z	-8.718	4
78	MP1B	Mx	1.308e-5	4
79	MP1C	X	-11.803	4
80	MP1C	Z	-6.814	4
81	MP1C	Mx	-5.111e-6	4
82	MP1A	X	-9.033	4
83	MP1A	Z	-5.215	4
84	MP1A	Mx	0	4
85	MP1B	X	-15.1	4
86	MP1B	Z	-8.718	4
87	MP1B	Mx	-1.308e-5	4
88	MP1C	X	-10.55	4
89	MP1C	Z	-6.091	4
90	MP1C	Mx	4.568e-6	4
91	OVP	X	-23.94	.75
92	OVP	Z	-13.822	.75
93	OVP	Mx	-2.073e-5	.75
94	OVP	X	-30.294	.75
95	OVP	Z	-17.49	.75
96	OVP	Mx	0	.75
97	MP1A	X	-4.182	6.5
98	MP1A	Z	-2.414	6.5
99	MP1A	Mx	-4.829e-6	6.5
100	MP1A	X	-4.182	7.5
101	MP1A	Z	-2.414	7.5
102	MP1A	Mx	-4.829e-6	7.5
103	MP1B	X	-1.77	6.5
104	MP1B	Z	-1.022	6.5
105	MP1B	Mx	-6.81e-7	6.5
106	MP1B	X	-1.77	7.5
107	MP1B	Z	-1.022	7.5
108	MP1B	Mx	-6.81e-7	7.5
109	MP1A	X	-4.182	6.5
110	MP1A	Z	-2.414	6.5
111	MP1A	Mx	-4.829e-6	6.5
112	MP1A	X	-4.182	7.5
113	MP1A	Z	-2.414	7.5
114	MP1A	Mx	-4.829e-6	7.5
115	MP1B	X	-1.77	6.5
116	MP1B	Z	-1.022	6.5
117	MP1B	Mx	6.81e-7	6.5
118	MP1B	X	-1.77	7.5
119	MP1B	Z	-1.022	7.5
120	MP1B	Mx	6.81e-7	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-13.016	1.25
2	MP1A	Z	-22.544	1.25
3	MP1A	Mx	2.595e-6	1.25
4	MP1A	X	-13.016	5.25
5	MP1A	Z	-22.544	5.25
6	MP1A	Mx	2.595e-6	5.25
7	MP1B	X	-15.505	1.25
8	MP1B	Z	-26.855	1.25
9	MP1B	Mx	2.566e-5	1.25
10	MP1B	X	-15.505	5.25
11	MP1B	Z	-26.855	5.25
12	MP1B	Mx	2.566e-5	5.25
13	MP1C	X	-11.771	1.25
14	MP1C	Z	-20.389	1.25
15	MP1C	Mx	-1.177e-5	1.25
16	MP1C	X	-11.771	5.25
17	MP1C	Z	-20.389	5.25
18	MP1C	Mx	-1.177e-5	5.25
19	MP1A	X	-13.016	1.25
20	MP1A	Z	-22.544	1.25
21	MP1A	Mx	1.995e-5	1.25
22	MP1A	X	-13.016	5.25
23	MP1A	Z	-22.544	5.25
24	MP1A	Mx	1.995e-5	5.25
25	MP1B	X	-15.505	1.25
26	MP1B	Z	-26.855	1.25
27	MP1B	Mx	-1.015e-5	1.25
28	MP1B	X	-15.505	5.25
29	MP1B	Z	-26.855	5.25
30	MP1B	Mx	-1.015e-5	5.25
31	MP1C	X	-11.771	1.25
32	MP1C	Z	-20.389	1.25
33	MP1C	Mx	-1.177e-5	1.25
34	MP1C	X	-11.771	5.25
35	MP1C	Z	-20.389	5.25
36	MP1C	Mx	-1.177e-5	5.25
37	MP2A	X	-13.016	1.25
38	MP2A	Z	-22.544	1.25
39	MP2A	Mx	2.595e-6	1.25
40	MP2A	X	-13.016	5.25
41	MP2A	Z	-22.544	5.25
42	MP2A	Mx	2.595e-6	5.25
43	MP2B	X	-15.505	1.25
44	MP2B	Z	-26.855	1.25
45	MP2B	Mx	2.566e-5	1.25
46	MP2B	X	-15.505	5.25
47	MP2B	Z	-26.855	5.25
48	MP2B	Mx	2.566e-5	5.25
49	MP2C	X	-11.771	1.25
50	MP2C	Z	-20.389	1.25
51	MP2C	Mx	-1.177e-5	1.25
52	MP2C	X	-11.771	5.25
53	MP2C	Z	-20.389	5.25
54	MP2C	Mx	-1.177e-5	5.25
55	MP2A	X	-13.016	1.25
56	MP2A	Z	-22.544	1.25
57	MP2A	Mx	1.995e-5	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2A	X	-13.016	5.25
59	MP2A	Z	-22.544	5.25
60	MP2A	Mx	1.995e-5	5.25
61	MP2B	X	-15.505	1.25
62	MP2B	Z	-26.855	1.25
63	MP2B	Mx	-1.015e-5	1.25
64	MP2B	X	-15.505	5.25
65	MP2B	Z	-26.855	5.25
66	MP2B	Mx	-1.015e-5	5.25
67	MP2C	X	-11.771	1.25
68	MP2C	Z	-20.389	1.25
69	MP2C	Mx	-1.177e-5	1.25
70	MP2C	X	-11.771	5.25
71	MP2C	Z	-20.389	5.25
72	MP2C	Mx	-1.177e-5	5.25
73	MP1A	X	-6.814	4
74	MP1A	Z	-11.803	4
75	MP1A	Mx	-5.111e-6	4
76	MP1B	X	-8.083	4
77	MP1B	Z	-14.001	4
78	MP1B	Mx	1.05e-5	4
79	MP1C	X	-6.18	4
80	MP1C	Z	-10.704	4
81	MP1C	Mx	0	4
82	MP1A	X	-6.091	4
83	MP1A	Z	-10.55	4
84	MP1A	Mx	4.568e-6	4
85	MP1B	X	-7.842	4
86	MP1B	Z	-13.583	4
87	MP1B	Mx	-1.019e-5	4
88	MP1C	X	-5.215	4
89	MP1C	Z	-9.033	4
90	MP1C	Mx	0	4
91	OVP	X	-14.739	.75
92	OVP	Z	-25.528	.75
93	OVP	Mx	-1.915e-5	.75
94	OVP	X	-16.573	.75
95	OVP	Z	-28.705	.75
96	OVP	Mx	-1.243e-5	.75
97	MP1A	X	-2.066	6.5
98	MP1A	Z	-3.579	6.5
99	MP1A	Mx	-2.89e-6	6.5
100	MP1A	X	-2.066	7.5
101	MP1A	Z	-3.579	7.5
102	MP1A	Mx	-2.89e-6	7.5
103	MP1B	X	-1.37	6.5
104	MP1B	Z	-2.373	6.5
105	MP1B	Mx	-2.161e-6	6.5
106	MP1B	X	-1.37	7.5
107	MP1B	Z	-2.373	7.5
108	MP1B	Mx	-2.161e-6	7.5
109	MP1A	X	-2.066	6.5
110	MP1A	Z	-3.579	6.5
111	MP1A	Mx	-4.268e-6	6.5
112	MP1A	X	-2.066	7.5
113	MP1A	Z	-3.579	7.5
114	MP1A	Mx	-4.268e-6	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
115	MP1B	X	-1.37	6.5
116	MP1B	Z	-2.373	6.5
117	MP1B	Mx	-5.79e-7	6.5
118	MP1B	X	-1.37	7.5
119	MP1B	Z	-2.373	7.5
120	MP1B	Mx	-5.79e-7	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	1.25
2	MP1A	Z	-6.004	1.25
3	MP1A	Mx	-1.965e-6	1.25
4	MP1A	X	0	5.25
5	MP1A	Z	-6.004	5.25
6	MP1A	Mx	-1.965e-6	5.25
7	MP1B	X	0	1.25
8	MP1B	Z	-4.005	1.25
9	MP1B	Mx	3.069e-6	1.25
10	MP1B	X	0	5.25
11	MP1B	Z	-4.005	5.25
12	MP1B	Mx	3.069e-6	5.25
13	MP1C	X	0	1.25
14	MP1C	Z	-4.005	1.25
15	MP1C	Mx	-3.99e-7	1.25
16	MP1C	X	0	5.25
17	MP1C	Z	-4.005	5.25
18	MP1C	Mx	-3.99e-7	5.25
19	MP1A	X	0	1.25
20	MP1A	Z	-6.004	1.25
21	MP1A	Mx	4.967e-6	1.25
22	MP1A	X	0	5.25
23	MP1A	Z	-6.004	5.25
24	MP1A	Mx	4.967e-6	5.25
25	MP1B	X	0	1.25
26	MP1B	Z	-4.005	1.25
27	MP1B	Mx	3.99e-7	1.25
28	MP1B	X	0	5.25
29	MP1B	Z	-4.005	5.25
30	MP1B	Mx	3.99e-7	5.25
31	MP1C	X	0	1.25
32	MP1C	Z	-4.005	1.25
33	MP1C	Mx	-3.069e-6	1.25
34	MP1C	X	0	5.25
35	MP1C	Z	-4.005	5.25
36	MP1C	Mx	-3.069e-6	5.25
37	MP2A	X	0	1.25
38	MP2A	Z	-6.004	1.25
39	MP2A	Mx	-1.965e-6	1.25
40	MP2A	X	0	5.25
41	MP2A	Z	-6.004	5.25
42	MP2A	Mx	-1.965e-6	5.25
43	MP2B	X	0	1.25
44	MP2B	Z	-4.005	1.25
45	MP2B	Mx	3.069e-6	1.25
46	MP2B	X	0	5.25
47	MP2B	Z	-4.005	5.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
48	MP2B	Mx	3.069e-6	5.25
49	MP2C	X	0	1.25
50	MP2C	Z	-4.005	1.25
51	MP2C	Mx	-3.99e-7	1.25
52	MP2C	X	0	5.25
53	MP2C	Z	-4.005	5.25
54	MP2C	Mx	-3.99e-7	5.25
55	MP2A	X	0	1.25
56	MP2A	Z	-6.004	1.25
57	MP2A	Mx	4.967e-6	1.25
58	MP2A	X	0	5.25
59	MP2A	Z	-6.004	5.25
60	MP2A	Mx	4.967e-6	5.25
61	MP2B	X	0	1.25
62	MP2B	Z	-4.005	1.25
63	MP2B	Mx	3.99e-7	1.25
64	MP2B	X	0	5.25
65	MP2B	Z	-4.005	5.25
66	MP2B	Mx	3.99e-7	5.25
67	MP2C	X	0	1.25
68	MP2C	Z	-4.005	1.25
69	MP2C	Mx	-3.069e-6	1.25
70	MP2C	X	0	5.25
71	MP2C	Z	-4.005	5.25
72	MP2C	Mx	-3.069e-6	5.25
73	MP1A	X	0	4
74	MP1A	Z	-3.669	4
75	MP1A	Mx	-2.383e-6	4
76	MP1B	X	0	4
77	MP1B	Z	-3.012	4
78	MP1B	Mx	1.13e-6	4
79	MP1C	X	0	4
80	MP1C	Z	-3.012	4
81	MP1C	Mx	1.13e-6	4
82	MP1A	X	0	4
83	MP1A	Z	-3.547	4
84	MP1A	Mx	2.304e-6	4
85	MP1B	X	0	4
86	MP1B	Z	-2.644	4
87	MP1B	Mx	-9.92e-7	4
88	MP1C	X	0	4
89	MP1C	Z	-2.644	4
90	MP1C	Mx	-9.92e-7	4
91	OVP	X	0	.75
92	OVP	Z	-7.687	.75
93	OVP	Mx	-2.883e-6	.75
94	OVP	X	0	.75
95	OVP	Z	-6.707	.75
96	OVP	Mx	-4.356e-6	.75
97	MP1A	X	0	6.5
98	MP1A	Z	-1.231	6.5
99	MP1A	Mx	-2.6e-7	6.5
100	MP1A	X	0	7.5
101	MP1A	Z	-1.231	7.5
102	MP1A	Mx	-2.6e-7	7.5
103	MP1B	X	0	6.5
104	MP1B	Z	-1.215	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
105	MP1B	Mx	-1.255e-6	6.5
106	MP1B	X	0	7.5
107	MP1B	Z	-1.215	7.5
108	MP1B	Mx	-1.255e-6	7.5
109	MP1A	X	0	6.5
110	MP1A	Z	-1.231	6.5
111	MP1A	Mx	-9.71e-7	6.5
112	MP1A	X	0	7.5
113	MP1A	Z	-1.231	7.5
114	MP1A	Mx	-9.71e-7	7.5
115	MP1B	X	0	6.5
116	MP1B	Z	-1.215	6.5
117	MP1B	Mx	-8.5e-7	6.5
118	MP1B	X	0	7.5
119	MP1B	Z	-1.215	7.5
120	MP1B	Mx	-8.5e-7	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	3.502	1.25
2	MP1A	Z	-6.065	1.25
3	MP1A	Mx	-4.669e-6	1.25
4	MP1A	X	3.502	5.25
5	MP1A	Z	-6.065	5.25
6	MP1A	Mx	-4.669e-6	5.25
7	MP1B	X	1.503	1.25
8	MP1B	Z	-2.603	1.25
9	MP1B	Mx	1.503e-6	1.25
10	MP1B	X	1.503	5.25
11	MP1B	Z	-2.603	5.25
12	MP1B	Mx	1.503e-6	5.25
13	MP1C	X	3.002	1.25
14	MP1C	Z	-5.199	1.25
15	MP1C	Mx	1.965e-6	1.25
16	MP1C	X	3.002	5.25
17	MP1C	Z	-5.199	5.25
18	MP1C	Mx	1.965e-6	5.25
19	MP1A	X	3.502	1.25
20	MP1A	Z	-6.065	1.25
21	MP1A	Mx	4.669e-6	1.25
22	MP1A	X	3.502	5.25
23	MP1A	Z	-6.065	5.25
24	MP1A	Mx	4.669e-6	5.25
25	MP1B	X	1.503	1.25
26	MP1B	Z	-2.603	1.25
27	MP1B	Mx	1.503e-6	1.25
28	MP1B	X	1.503	5.25
29	MP1B	Z	-2.603	5.25
30	MP1B	Mx	1.503e-6	5.25
31	MP1C	X	3.002	1.25
32	MP1C	Z	-5.199	1.25
33	MP1C	Mx	-4.967e-6	1.25
34	MP1C	X	3.002	5.25
35	MP1C	Z	-5.199	5.25
36	MP1C	Mx	-4.967e-6	5.25
37	MP2A	X	3.502	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
38	MP2A	Z	-6.065	1.25
39	MP2A	Mx	-4.669e-6	1.25
40	MP2A	X	3.502	5.25
41	MP2A	Z	-6.065	5.25
42	MP2A	Mx	-4.669e-6	5.25
43	MP2B	X	1.503	1.25
44	MP2B	Z	-2.603	1.25
45	MP2B	Mx	1.503e-6	1.25
46	MP2B	X	1.503	5.25
47	MP2B	Z	-2.603	5.25
48	MP2B	Mx	1.503e-6	5.25
49	MP2C	X	3.002	1.25
50	MP2C	Z	-5.199	1.25
51	MP2C	Mx	1.965e-6	1.25
52	MP2C	X	3.002	5.25
53	MP2C	Z	-5.199	5.25
54	MP2C	Mx	1.965e-6	5.25
55	MP2A	X	3.502	1.25
56	MP2A	Z	-6.065	1.25
57	MP2A	Mx	4.669e-6	1.25
58	MP2A	X	3.502	5.25
59	MP2A	Z	-6.065	5.25
60	MP2A	Mx	4.669e-6	5.25
61	MP2B	X	1.503	1.25
62	MP2B	Z	-2.603	1.25
63	MP2B	Mx	1.503e-6	1.25
64	MP2B	X	1.503	5.25
65	MP2B	Z	-2.603	5.25
66	MP2B	Mx	1.503e-6	5.25
67	MP2C	X	3.002	1.25
68	MP2C	Z	-5.199	1.25
69	MP2C	Mx	-4.967e-6	1.25
70	MP2C	X	3.002	5.25
71	MP2C	Z	-5.199	5.25
72	MP2C	Mx	-4.967e-6	5.25
73	MP1A	X	1.999	4
74	MP1A	Z	-3.463	4
75	MP1A	Mx	-2.999e-6	4
76	MP1B	X	1.341	4
77	MP1B	Z	-2.323	4
78	MP1B	Mx	0	4
79	MP1C	X	1.835	4
80	MP1C	Z	-3.178	4
81	MP1C	Mx	2.384e-6	4
82	MP1A	X	1.999	4
83	MP1A	Z	-3.463	4
84	MP1A	Mx	2.999e-6	4
85	MP1B	X	1.096	4
86	MP1B	Z	-1.899	4
87	MP1B	Mx	0	4
88	MP1C	X	1.773	4
89	MP1C	Z	-3.072	4
90	MP1C	Mx	-2.304e-6	4
91	OVP	X	4.089	.75
92	OVP	Z	-7.082	.75
93	OVP	Mx	0	.75
94	OVP	X	3.108	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
95	OVP	Z	-5.384	.75
96	OVP	Mx	-4.663e-6	.75
97	MP1A	X	.619	6.5
98	MP1A	Z	-1.072	6.5
99	MP1A	Mx	4.13e-7	6.5
100	MP1A	X	.619	7.5
101	MP1A	Z	-1.072	7.5
102	MP1A	Mx	4.13e-7	7.5
103	MP1B	X	.604	6.5
104	MP1B	Z	-1.046	6.5
105	MP1B	Mx	-1.208e-6	6.5
106	MP1B	X	.604	7.5
107	MP1B	Z	-1.046	7.5
108	MP1B	Mx	-1.208e-6	7.5
109	MP1A	X	.619	6.5
110	MP1A	Z	-1.072	6.5
111	MP1A	Mx	-4.13e-7	6.5
112	MP1A	X	.619	7.5
113	MP1A	Z	-1.072	7.5
114	MP1A	Mx	-4.13e-7	7.5
115	MP1B	X	.604	6.5
116	MP1B	Z	-1.046	6.5
117	MP1B	Mx	-1.208e-6	6.5
118	MP1B	X	.604	7.5
119	MP1B	Z	-1.046	7.5
120	MP1B	Mx	-1.208e-6	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	5.199	1.25
2	MP1A	Z	-3.002	1.25
3	MP1A	Mx	-4.967e-6	1.25
4	MP1A	X	5.199	5.25
5	MP1A	Z	-3.002	5.25
6	MP1A	Mx	-4.967e-6	5.25
7	MP1B	X	3.468	1.25
8	MP1B	Z	-2.002	1.25
9	MP1B	Mx	3.99e-7	1.25
10	MP1B	X	3.468	5.25
11	MP1B	Z	-2.002	5.25
12	MP1B	Mx	3.99e-7	5.25
13	MP1C	X	6.065	1.25
14	MP1C	Z	-3.502	1.25
15	MP1C	Mx	4.669e-6	1.25
16	MP1C	X	6.065	5.25
17	MP1C	Z	-3.502	5.25
18	MP1C	Mx	4.669e-6	5.25
19	MP1A	X	5.199	1.25
20	MP1A	Z	-3.002	1.25
21	MP1A	Mx	1.965e-6	1.25
22	MP1A	X	5.199	5.25
23	MP1A	Z	-3.002	5.25
24	MP1A	Mx	1.965e-6	5.25
25	MP1B	X	3.468	1.25
26	MP1B	Z	-2.002	1.25
27	MP1B	Mx	3.069e-6	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
28	MP1B	X	3.468	5.25
29	MP1B	Z	-2.002	5.25
30	MP1B	Mx	3.069e-6	5.25
31	MP1C	X	6.065	1.25
32	MP1C	Z	-3.502	1.25
33	MP1C	Mx	-4.669e-6	1.25
34	MP1C	X	6.065	5.25
35	MP1C	Z	-3.502	5.25
36	MP1C	Mx	-4.669e-6	5.25
37	MP2A	X	5.199	1.25
38	MP2A	Z	-3.002	1.25
39	MP2A	Mx	-4.967e-6	1.25
40	MP2A	X	5.199	5.25
41	MP2A	Z	-3.002	5.25
42	MP2A	Mx	-4.967e-6	5.25
43	MP2B	X	3.468	1.25
44	MP2B	Z	-2.002	1.25
45	MP2B	Mx	3.99e-7	1.25
46	MP2B	X	3.468	5.25
47	MP2B	Z	-2.002	5.25
48	MP2B	Mx	3.99e-7	5.25
49	MP2C	X	6.065	1.25
50	MP2C	Z	-3.502	1.25
51	MP2C	Mx	4.669e-6	1.25
52	MP2C	X	6.065	5.25
53	MP2C	Z	-3.502	5.25
54	MP2C	Mx	4.669e-6	5.25
55	MP2A	X	5.199	1.25
56	MP2A	Z	-3.002	1.25
57	MP2A	Mx	1.965e-6	1.25
58	MP2A	X	5.199	5.25
59	MP2A	Z	-3.002	5.25
60	MP2A	Mx	1.965e-6	5.25
61	MP2B	X	3.468	1.25
62	MP2B	Z	-2.002	1.25
63	MP2B	Mx	3.069e-6	1.25
64	MP2B	X	3.468	5.25
65	MP2B	Z	-2.002	5.25
66	MP2B	Mx	3.069e-6	5.25
67	MP2C	X	6.065	1.25
68	MP2C	Z	-3.502	1.25
69	MP2C	Mx	-4.669e-6	1.25
70	MP2C	X	6.065	5.25
71	MP2C	Z	-3.502	5.25
72	MP2C	Mx	-4.669e-6	5.25
73	MP1A	X	3.178	4
74	MP1A	Z	-1.835	4
75	MP1A	Mx	-2.384e-6	4
76	MP1B	X	2.608	4
77	MP1B	Z	-1.506	4
78	MP1B	Mx	-1.129e-6	4
79	MP1C	X	3.463	4
80	MP1C	Z	-1.999	4
81	MP1C	Mx	2.999e-6	4
82	MP1A	X	3.072	4
83	MP1A	Z	-1.773	4
84	MP1A	Mx	2.304e-6	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
85	MP1B	X	2.29	4
86	MP1B	Z	-1.322	4
87	MP1B	Mx	9.92e-7	4
88	MP1C	X	3.463	4
89	MP1C	Z	-1.999	4
90	MP1C	Mx	-2.999e-6	4
91	OVP	X	6.657	.75
92	OVP	Z	-3.843	.75
93	OVP	Mx	2.883e-6	.75
94	OVP	X	5.808	.75
95	OVP	Z	-3.353	.75
96	OVP	Mx	-4.356e-6	.75
97	MP1A	X	1.066	6.5
98	MP1A	Z	-.615	6.5
99	MP1A	Mx	9.71e-7	6.5
100	MP1A	X	1.066	7.5
101	MP1A	Z	-.615	7.5
102	MP1A	Mx	9.71e-7	7.5
103	MP1B	X	1.052	6.5
104	MP1B	Z	-.608	6.5
105	MP1B	Mx	-8.5e-7	6.5
106	MP1B	X	1.052	7.5
107	MP1B	Z	-.608	7.5
108	MP1B	Mx	-8.5e-7	7.5
109	MP1A	X	1.066	6.5
110	MP1A	Z	-.615	6.5
111	MP1A	Mx	2.6e-7	6.5
112	MP1A	X	1.066	7.5
113	MP1A	Z	-.615	7.5
114	MP1A	Mx	2.6e-7	7.5
115	MP1B	X	1.052	6.5
116	MP1B	Z	-.608	6.5
117	MP1B	Mx	-1.255e-6	6.5
118	MP1B	X	1.052	7.5
119	MP1B	Z	-.608	7.5
120	MP1B	Mx	-1.255e-6	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	4.005	1.25
2	MP1A	Z	0	1.25
3	MP1A	Mx	-3.069e-6	1.25
4	MP1A	X	4.005	5.25
5	MP1A	Z	0	5.25
6	MP1A	Mx	-3.069e-6	5.25
7	MP1B	X	6.004	1.25
8	MP1B	Z	0	1.25
9	MP1B	Mx	-1.965e-6	1.25
10	MP1B	X	6.004	5.25
11	MP1B	Z	0	5.25
12	MP1B	Mx	-1.965e-6	5.25
13	MP1C	X	6.004	1.25
14	MP1C	Z	0	1.25
15	MP1C	Mx	4.967e-6	1.25
16	MP1C	X	6.004	5.25
17	MP1C	Z	0	5.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP1C	Mx	4.967e-6	5.25
19	MP1A	X	4.005	1.25
20	MP1A	Z	0	1.25
21	MP1A	Mx	-3.99e-7	1.25
22	MP1A	X	4.005	5.25
23	MP1A	Z	0	5.25
24	MP1A	Mx	-3.99e-7	5.25
25	MP1B	X	6.004	1.25
26	MP1B	Z	0	1.25
27	MP1B	Mx	4.967e-6	1.25
28	MP1B	X	6.004	5.25
29	MP1B	Z	0	5.25
30	MP1B	Mx	4.967e-6	5.25
31	MP1C	X	6.004	1.25
32	MP1C	Z	0	1.25
33	MP1C	Mx	-1.965e-6	1.25
34	MP1C	X	6.004	5.25
35	MP1C	Z	0	5.25
36	MP1C	Mx	-1.965e-6	5.25
37	MP2A	X	4.005	1.25
38	MP2A	Z	0	1.25
39	MP2A	Mx	-3.069e-6	1.25
40	MP2A	X	4.005	5.25
41	MP2A	Z	0	5.25
42	MP2A	Mx	-3.069e-6	5.25
43	MP2B	X	6.004	1.25
44	MP2B	Z	0	1.25
45	MP2B	Mx	-1.965e-6	1.25
46	MP2B	X	6.004	5.25
47	MP2B	Z	0	5.25
48	MP2B	Mx	-1.965e-6	5.25
49	MP2C	X	6.004	1.25
50	MP2C	Z	0	1.25
51	MP2C	Mx	4.967e-6	1.25
52	MP2C	X	6.004	5.25
53	MP2C	Z	0	5.25
54	MP2C	Mx	4.967e-6	5.25
55	MP2A	X	4.005	1.25
56	MP2A	Z	0	1.25
57	MP2A	Mx	-3.99e-7	1.25
58	MP2A	X	4.005	5.25
59	MP2A	Z	0	5.25
60	MP2A	Mx	-3.99e-7	5.25
61	MP2B	X	6.004	1.25
62	MP2B	Z	0	1.25
63	MP2B	Mx	4.967e-6	1.25
64	MP2B	X	6.004	5.25
65	MP2B	Z	0	5.25
66	MP2B	Mx	4.967e-6	5.25
67	MP2C	X	6.004	1.25
68	MP2C	Z	0	1.25
69	MP2C	Mx	-1.965e-6	1.25
70	MP2C	X	6.004	5.25
71	MP2C	Z	0	5.25
72	MP2C	Mx	-1.965e-6	5.25
73	MP1A	X	3.012	4
74	MP1A	Z	0	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
75	MP1A	Mx	-1.13e-6	4
76	MP1B	X	3.669	4
77	MP1B	Z	0	4
78	MP1B	Mx	-2.383e-6	4
79	MP1C	X	3.669	4
80	MP1C	Z	0	4
81	MP1C	Mx	2.383e-6	4
82	MP1A	X	2.644	4
83	MP1A	Z	0	4
84	MP1A	Mx	9.92e-7	4
85	MP1B	X	3.547	4
86	MP1B	Z	0	4
87	MP1B	Mx	2.304e-6	4
88	MP1C	X	3.547	4
89	MP1C	Z	0	4
90	MP1C	Mx	-2.304e-6	4
91	OVP	X	6.707	.75
92	OVP	Z	0	.75
93	OVP	Mx	4.356e-6	.75
94	OVP	X	7.687	.75
95	OVP	Z	0	.75
96	OVP	Mx	-2.883e-6	.75
97	MP1A	X	1.215	6.5
98	MP1A	Z	0	6.5
99	MP1A	Mx	1.255e-6	6.5
100	MP1A	X	1.215	7.5
101	MP1A	Z	0	7.5
102	MP1A	Mx	1.255e-6	7.5
103	MP1B	X	1.231	6.5
104	MP1B	Z	0	6.5
105	MP1B	Mx	-2.6e-7	6.5
106	MP1B	X	1.231	7.5
107	MP1B	Z	0	7.5
108	MP1B	Mx	-2.6e-7	7.5
109	MP1A	X	1.215	6.5
110	MP1A	Z	0	6.5
111	MP1A	Mx	8.5e-7	6.5
112	MP1A	X	1.215	7.5
113	MP1A	Z	0	7.5
114	MP1A	Mx	8.5e-7	7.5
115	MP1B	X	1.231	6.5
116	MP1B	Z	0	6.5
117	MP1B	Mx	-9.71e-7	6.5
118	MP1B	X	1.231	7.5
119	MP1B	Z	0	7.5
120	MP1B	Mx	-9.71e-7	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	2.603	1.25
2	MP1A	Z	1.503	1.25
3	MP1A	Mx	-1.503e-6	1.25
4	MP1A	X	2.603	5.25
5	MP1A	Z	1.503	5.25
6	MP1A	Mx	-1.503e-6	5.25
7	MP1B	X	6.065	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP1B	Z	3.502	1.25
9	MP1B	Mx	-4.669e-6	1.25
10	MP1B	X	6.065	5.25
11	MP1B	Z	3.502	5.25
12	MP1B	Mx	-4.669e-6	5.25
13	MP1C	X	3.468	1.25
14	MP1C	Z	2.002	1.25
15	MP1C	Mx	3.069e-6	1.25
16	MP1C	X	3.468	5.25
17	MP1C	Z	2.002	5.25
18	MP1C	Mx	3.069e-6	5.25
19	MP1A	X	2.603	1.25
20	MP1A	Z	1.503	1.25
21	MP1A	Mx	-1.503e-6	1.25
22	MP1A	X	2.603	5.25
23	MP1A	Z	1.503	5.25
24	MP1A	Mx	-1.503e-6	5.25
25	MP1B	X	6.065	1.25
26	MP1B	Z	3.502	1.25
27	MP1B	Mx	4.669e-6	1.25
28	MP1B	X	6.065	5.25
29	MP1B	Z	3.502	5.25
30	MP1B	Mx	4.669e-6	5.25
31	MP1C	X	3.468	1.25
32	MP1C	Z	2.002	1.25
33	MP1C	Mx	3.99e-7	1.25
34	MP1C	X	3.468	5.25
35	MP1C	Z	2.002	5.25
36	MP1C	Mx	3.99e-7	5.25
37	MP2A	X	2.603	1.25
38	MP2A	Z	1.503	1.25
39	MP2A	Mx	-1.503e-6	1.25
40	MP2A	X	2.603	5.25
41	MP2A	Z	1.503	5.25
42	MP2A	Mx	-1.503e-6	5.25
43	MP2B	X	6.065	1.25
44	MP2B	Z	3.502	1.25
45	MP2B	Mx	-4.669e-6	1.25
46	MP2B	X	6.065	5.25
47	MP2B	Z	3.502	5.25
48	MP2B	Mx	-4.669e-6	5.25
49	MP2C	X	3.468	1.25
50	MP2C	Z	2.002	1.25
51	MP2C	Mx	3.069e-6	1.25
52	MP2C	X	3.468	5.25
53	MP2C	Z	2.002	5.25
54	MP2C	Mx	3.069e-6	5.25
55	MP2A	X	2.603	1.25
56	MP2A	Z	1.503	1.25
57	MP2A	Mx	-1.503e-6	1.25
58	MP2A	X	2.603	5.25
59	MP2A	Z	1.503	5.25
60	MP2A	Mx	-1.503e-6	5.25
61	MP2B	X	6.065	1.25
62	MP2B	Z	3.502	1.25
63	MP2B	Mx	4.669e-6	1.25
64	MP2B	X	6.065	5.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
65	MP2B	Z	3.502	5.25
66	MP2B	Mx	4.669e-6	5.25
67	MP2C	X	3.468	1.25
68	MP2C	Z	2.002	1.25
69	MP2C	Mx	3.99e-7	1.25
70	MP2C	X	3.468	5.25
71	MP2C	Z	2.002	5.25
72	MP2C	Mx	3.99e-7	5.25
73	MP1A	X	2.323	4
74	MP1A	Z	1.341	4
75	MP1A	Mx	0	4
76	MP1B	X	3.463	4
77	MP1B	Z	1.999	4
78	MP1B	Mx	-2.999e-6	4
79	MP1C	X	2.608	4
80	MP1C	Z	1.506	4
81	MP1C	Mx	1.129e-6	4
82	MP1A	X	1.899	4
83	MP1A	Z	1.096	4
84	MP1A	Mx	0	4
85	MP1B	X	3.463	4
86	MP1B	Z	1.999	4
87	MP1B	Mx	2.999e-6	4
88	MP1C	X	2.29	4
89	MP1C	Z	1.322	4
90	MP1C	Mx	-9.92e-7	4
91	OVP	X	5.384	.75
92	OVP	Z	3.108	.75
93	OVP	Mx	4.663e-6	.75
94	OVP	X	7.082	.75
95	OVP	Z	4.089	.75
96	OVP	Mx	0	.75
97	MP1A	X	1.046	6.5
98	MP1A	Z	.604	6.5
99	MP1A	Mx	1.208e-6	6.5
100	MP1A	X	1.046	7.5
101	MP1A	Z	.604	7.5
102	MP1A	Mx	1.208e-6	7.5
103	MP1B	X	1.072	6.5
104	MP1B	Z	.619	6.5
105	MP1B	Mx	4.13e-7	6.5
106	MP1B	X	1.072	7.5
107	MP1B	Z	.619	7.5
108	MP1B	Mx	4.13e-7	7.5
109	MP1A	X	1.046	6.5
110	MP1A	Z	.604	6.5
111	MP1A	Mx	1.208e-6	6.5
112	MP1A	X	1.046	7.5
113	MP1A	Z	.604	7.5
114	MP1A	Mx	1.208e-6	7.5
115	MP1B	X	1.072	6.5
116	MP1B	Z	.619	6.5
117	MP1B	Mx	-4.13e-7	6.5
118	MP1B	X	1.072	7.5
119	MP1B	Z	.619	7.5
120	MP1B	Mx	-4.13e-7	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	2.002	1.25
2	MP1A	Z	3.468	1.25
3	MP1A	Mx	-3.99e-7	1.25
4	MP1A	X	2.002	5.25
5	MP1A	Z	3.468	5.25
6	MP1A	Mx	-3.99e-7	5.25
7	MP1B	X	3.002	1.25
8	MP1B	Z	5.199	1.25
9	MP1B	Mx	-4.967e-6	1.25
10	MP1B	X	3.002	5.25
11	MP1B	Z	5.199	5.25
12	MP1B	Mx	-4.967e-6	5.25
13	MP1C	X	1.503	1.25
14	MP1C	Z	2.603	1.25
15	MP1C	Mx	1.503e-6	1.25
16	MP1C	X	1.503	5.25
17	MP1C	Z	2.603	5.25
18	MP1C	Mx	1.503e-6	5.25
19	MP1A	X	2.002	1.25
20	MP1A	Z	3.468	1.25
21	MP1A	Mx	-3.069e-6	1.25
22	MP1A	X	2.002	5.25
23	MP1A	Z	3.468	5.25
24	MP1A	Mx	-3.069e-6	5.25
25	MP1B	X	3.002	1.25
26	MP1B	Z	5.199	1.25
27	MP1B	Mx	1.965e-6	1.25
28	MP1B	X	3.002	5.25
29	MP1B	Z	5.199	5.25
30	MP1B	Mx	1.965e-6	5.25
31	MP1C	X	1.503	1.25
32	MP1C	Z	2.603	1.25
33	MP1C	Mx	1.503e-6	1.25
34	MP1C	X	1.503	5.25
35	MP1C	Z	2.603	5.25
36	MP1C	Mx	1.503e-6	5.25
37	MP2A	X	2.002	1.25
38	MP2A	Z	3.468	1.25
39	MP2A	Mx	-3.99e-7	1.25
40	MP2A	X	2.002	5.25
41	MP2A	Z	3.468	5.25
42	MP2A	Mx	-3.99e-7	5.25
43	MP2B	X	3.002	1.25
44	MP2B	Z	5.199	1.25
45	MP2B	Mx	-4.967e-6	1.25
46	MP2B	X	3.002	5.25
47	MP2B	Z	5.199	5.25
48	MP2B	Mx	-4.967e-6	5.25
49	MP2C	X	1.503	1.25
50	MP2C	Z	2.603	1.25
51	MP2C	Mx	1.503e-6	1.25
52	MP2C	X	1.503	5.25
53	MP2C	Z	2.603	5.25
54	MP2C	Mx	1.503e-6	5.25
55	MP2A	X	2.002	1.25
56	MP2A	Z	3.468	1.25
57	MP2A	Mx	-3.069e-6	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2A	X	2.002	5.25
59	MP2A	Z	3.468	5.25
60	MP2A	Mx	-3.069e-6	5.25
61	MP2B	X	3.002	1.25
62	MP2B	Z	5.199	1.25
63	MP2B	Mx	1.965e-6	1.25
64	MP2B	X	3.002	5.25
65	MP2B	Z	5.199	5.25
66	MP2B	Mx	1.965e-6	5.25
67	MP2C	X	1.503	1.25
68	MP2C	Z	2.603	1.25
69	MP2C	Mx	1.503e-6	1.25
70	MP2C	X	1.503	5.25
71	MP2C	Z	2.603	5.25
72	MP2C	Mx	1.503e-6	5.25
73	MP1A	X	1.506	4
74	MP1A	Z	2.608	4
75	MP1A	Mx	1.129e-6	4
76	MP1B	X	1.835	4
77	MP1B	Z	3.178	4
78	MP1B	Mx	-2.384e-6	4
79	MP1C	X	1.341	4
80	MP1C	Z	2.323	4
81	MP1C	Mx	0	4
82	MP1A	X	1.322	4
83	MP1A	Z	2.29	4
84	MP1A	Mx	-9.92e-7	4
85	MP1B	X	1.773	4
86	MP1B	Z	3.072	4
87	MP1B	Mx	2.304e-6	4
88	MP1C	X	1.096	4
89	MP1C	Z	1.899	4
90	MP1C	Mx	0	4
91	OVP	X	3.353	.75
92	OVP	Z	5.808	.75
93	OVP	Mx	4.356e-6	.75
94	OVP	X	3.843	.75
95	OVP	Z	6.657	.75
96	OVP	Mx	2.883e-6	.75
97	MP1A	X	.608	6.5
98	MP1A	Z	1.052	6.5
99	MP1A	Mx	8.5e-7	6.5
100	MP1A	X	.608	7.5
101	MP1A	Z	1.052	7.5
102	MP1A	Mx	8.5e-7	7.5
103	MP1B	X	.615	6.5
104	MP1B	Z	1.066	6.5
105	MP1B	Mx	9.71e-7	6.5
106	MP1B	X	.615	7.5
107	MP1B	Z	1.066	7.5
108	MP1B	Mx	9.71e-7	7.5
109	MP1A	X	.608	6.5
110	MP1A	Z	1.052	6.5
111	MP1A	Mx	1.255e-6	6.5
112	MP1A	X	.608	7.5
113	MP1A	Z	1.052	7.5
114	MP1A	Mx	1.255e-6	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
115	MP1B	X	.615	6.5
116	MP1B	Z	1.066	6.5
117	MP1B	Mx	2.6e-7	6.5
118	MP1B	X	.615	7.5
119	MP1B	Z	1.066	7.5
120	MP1B	Mx	2.6e-7	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	1.25
2	MP1A	Z	6.004	1.25
3	MP1A	Mx	1.965e-6	1.25
4	MP1A	X	0	5.25
5	MP1A	Z	6.004	5.25
6	MP1A	Mx	1.965e-6	5.25
7	MP1B	X	0	1.25
8	MP1B	Z	4.005	1.25
9	MP1B	Mx	-3.069e-6	1.25
10	MP1B	X	0	5.25
11	MP1B	Z	4.005	5.25
12	MP1B	Mx	-3.069e-6	5.25
13	MP1C	X	0	1.25
14	MP1C	Z	4.005	1.25
15	MP1C	Mx	3.99e-7	1.25
16	MP1C	X	0	5.25
17	MP1C	Z	4.005	5.25
18	MP1C	Mx	3.99e-7	5.25
19	MP1A	X	0	1.25
20	MP1A	Z	6.004	1.25
21	MP1A	Mx	-4.967e-6	1.25
22	MP1A	X	0	5.25
23	MP1A	Z	6.004	5.25
24	MP1A	Mx	-4.967e-6	5.25
25	MP1B	X	0	1.25
26	MP1B	Z	4.005	1.25
27	MP1B	Mx	-3.99e-7	1.25
28	MP1B	X	0	5.25
29	MP1B	Z	4.005	5.25
30	MP1B	Mx	-3.99e-7	5.25
31	MP1C	X	0	1.25
32	MP1C	Z	4.005	1.25
33	MP1C	Mx	3.069e-6	1.25
34	MP1C	X	0	5.25
35	MP1C	Z	4.005	5.25
36	MP1C	Mx	3.069e-6	5.25
37	MP2A	X	0	1.25
38	MP2A	Z	6.004	1.25
39	MP2A	Mx	1.965e-6	1.25
40	MP2A	X	0	5.25
41	MP2A	Z	6.004	5.25
42	MP2A	Mx	1.965e-6	5.25
43	MP2B	X	0	1.25
44	MP2B	Z	4.005	1.25
45	MP2B	Mx	-3.069e-6	1.25
46	MP2B	X	0	5.25
47	MP2B	Z	4.005	5.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
48	MP2B	Mx	-3.069e-6	5.25
49	MP2C	X	0	1.25
50	MP2C	Z	4.005	1.25
51	MP2C	Mx	3.99e-7	1.25
52	MP2C	X	0	5.25
53	MP2C	Z	4.005	5.25
54	MP2C	Mx	3.99e-7	5.25
55	MP2A	X	0	1.25
56	MP2A	Z	6.004	1.25
57	MP2A	Mx	-4.967e-6	1.25
58	MP2A	X	0	5.25
59	MP2A	Z	6.004	5.25
60	MP2A	Mx	-4.967e-6	5.25
61	MP2B	X	0	1.25
62	MP2B	Z	4.005	1.25
63	MP2B	Mx	-3.99e-7	1.25
64	MP2B	X	0	5.25
65	MP2B	Z	4.005	5.25
66	MP2B	Mx	-3.99e-7	5.25
67	MP2C	X	0	1.25
68	MP2C	Z	4.005	1.25
69	MP2C	Mx	3.069e-6	1.25
70	MP2C	X	0	5.25
71	MP2C	Z	4.005	5.25
72	MP2C	Mx	3.069e-6	5.25
73	MP1A	X	0	4
74	MP1A	Z	3.669	4
75	MP1A	Mx	2.383e-6	4
76	MP1B	X	0	4
77	MP1B	Z	3.012	4
78	MP1B	Mx	-1.13e-6	4
79	MP1C	X	0	4
80	MP1C	Z	3.012	4
81	MP1C	Mx	-1.13e-6	4
82	MP1A	X	0	4
83	MP1A	Z	3.547	4
84	MP1A	Mx	-2.304e-6	4
85	MP1B	X	0	4
86	MP1B	Z	2.644	4
87	MP1B	Mx	9.92e-7	4
88	MP1C	X	0	4
89	MP1C	Z	2.644	4
90	MP1C	Mx	9.92e-7	4
91	OVP	X	0	.75
92	OVP	Z	7.687	.75
93	OVP	Mx	2.883e-6	.75
94	OVP	X	0	.75
95	OVP	Z	6.707	.75
96	OVP	Mx	4.356e-6	.75
97	MP1A	X	0	6.5
98	MP1A	Z	1.231	6.5
99	MP1A	Mx	2.6e-7	6.5
100	MP1A	X	0	7.5
101	MP1A	Z	1.231	7.5
102	MP1A	Mx	2.6e-7	7.5
103	MP1B	X	0	6.5
104	MP1B	Z	1.215	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
105	MP1B	Mx	1.255e-6	6.5
106	MP1B	X	0	7.5
107	MP1B	Z	1.215	7.5
108	MP1B	Mx	1.255e-6	7.5
109	MP1A	X	0	6.5
110	MP1A	Z	1.231	6.5
111	MP1A	Mx	9.71e-7	6.5
112	MP1A	X	0	7.5
113	MP1A	Z	1.231	7.5
114	MP1A	Mx	9.71e-7	7.5
115	MP1B	X	0	6.5
116	MP1B	Z	1.215	6.5
117	MP1B	Mx	8.5e-7	6.5
118	MP1B	X	0	7.5
119	MP1B	Z	1.215	7.5
120	MP1B	Mx	8.5e-7	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-3.502	1.25
2	MP1A	Z	6.065	1.25
3	MP1A	Mx	4.669e-6	1.25
4	MP1A	X	-3.502	5.25
5	MP1A	Z	6.065	5.25
6	MP1A	Mx	4.669e-6	5.25
7	MP1B	X	-1.503	1.25
8	MP1B	Z	2.603	1.25
9	MP1B	Mx	-1.503e-6	1.25
10	MP1B	X	-1.503	5.25
11	MP1B	Z	2.603	5.25
12	MP1B	Mx	-1.503e-6	5.25
13	MP1C	X	-3.002	1.25
14	MP1C	Z	5.199	1.25
15	MP1C	Mx	-1.965e-6	1.25
16	MP1C	X	-3.002	5.25
17	MP1C	Z	5.199	5.25
18	MP1C	Mx	-1.965e-6	5.25
19	MP1A	X	-3.502	1.25
20	MP1A	Z	6.065	1.25
21	MP1A	Mx	-4.669e-6	1.25
22	MP1A	X	-3.502	5.25
23	MP1A	Z	6.065	5.25
24	MP1A	Mx	-4.669e-6	5.25
25	MP1B	X	-1.503	1.25
26	MP1B	Z	2.603	1.25
27	MP1B	Mx	-1.503e-6	1.25
28	MP1B	X	-1.503	5.25
29	MP1B	Z	2.603	5.25
30	MP1B	Mx	-1.503e-6	5.25
31	MP1C	X	-3.002	1.25
32	MP1C	Z	5.199	1.25
33	MP1C	Mx	4.967e-6	1.25
34	MP1C	X	-3.002	5.25
35	MP1C	Z	5.199	5.25
36	MP1C	Mx	4.967e-6	5.25
37	MP2A	X	-3.502	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
38	MP2A	Z	6.065	1.25
39	MP2A	Mx	4.669e-6	1.25
40	MP2A	X	-3.502	5.25
41	MP2A	Z	6.065	5.25
42	MP2A	Mx	4.669e-6	5.25
43	MP2B	X	-1.503	1.25
44	MP2B	Z	2.603	1.25
45	MP2B	Mx	-1.503e-6	1.25
46	MP2B	X	-1.503	5.25
47	MP2B	Z	2.603	5.25
48	MP2B	Mx	-1.503e-6	5.25
49	MP2C	X	-3.002	1.25
50	MP2C	Z	5.199	1.25
51	MP2C	Mx	-1.965e-6	1.25
52	MP2C	X	-3.002	5.25
53	MP2C	Z	5.199	5.25
54	MP2C	Mx	-1.965e-6	5.25
55	MP2A	X	-3.502	1.25
56	MP2A	Z	6.065	1.25
57	MP2A	Mx	-4.669e-6	1.25
58	MP2A	X	-3.502	5.25
59	MP2A	Z	6.065	5.25
60	MP2A	Mx	-4.669e-6	5.25
61	MP2B	X	-1.503	1.25
62	MP2B	Z	2.603	1.25
63	MP2B	Mx	-1.503e-6	1.25
64	MP2B	X	-1.503	5.25
65	MP2B	Z	2.603	5.25
66	MP2B	Mx	-1.503e-6	5.25
67	MP2C	X	-3.002	1.25
68	MP2C	Z	5.199	1.25
69	MP2C	Mx	4.967e-6	1.25
70	MP2C	X	-3.002	5.25
71	MP2C	Z	5.199	5.25
72	MP2C	Mx	4.967e-6	5.25
73	MP1A	X	-1.999	4
74	MP1A	Z	3.463	4
75	MP1A	Mx	2.999e-6	4
76	MP1B	X	-1.341	4
77	MP1B	Z	2.323	4
78	MP1B	Mx	0	4
79	MP1C	X	-1.835	4
80	MP1C	Z	3.178	4
81	MP1C	Mx	-2.384e-6	4
82	MP1A	X	-1.999	4
83	MP1A	Z	3.463	4
84	MP1A	Mx	-2.999e-6	4
85	MP1B	X	-1.096	4
86	MP1B	Z	1.899	4
87	MP1B	Mx	0	4
88	MP1C	X	-1.773	4
89	MP1C	Z	3.072	4
90	MP1C	Mx	2.304e-6	4
91	OVP	X	-4.089	.75
92	OVP	Z	7.082	.75
93	OVP	Mx	0	.75
94	OVP	X	-3.108	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
95	OVP	Z	5.384	.75
96	OVP	Mx	4.663e-6	.75
97	MP1A	X	-.619	6.5
98	MP1A	Z	1.072	6.5
99	MP1A	Mx	-4.13e-7	6.5
100	MP1A	X	-.619	7.5
101	MP1A	Z	1.072	7.5
102	MP1A	Mx	-4.13e-7	7.5
103	MP1B	X	-.604	6.5
104	MP1B	Z	1.046	6.5
105	MP1B	Mx	1.208e-6	6.5
106	MP1B	X	-.604	7.5
107	MP1B	Z	1.046	7.5
108	MP1B	Mx	1.208e-6	7.5
109	MP1A	X	-.619	6.5
110	MP1A	Z	1.072	6.5
111	MP1A	Mx	4.13e-7	6.5
112	MP1A	X	-.619	7.5
113	MP1A	Z	1.072	7.5
114	MP1A	Mx	4.13e-7	7.5
115	MP1B	X	-.604	6.5
116	MP1B	Z	1.046	6.5
117	MP1B	Mx	1.208e-6	6.5
118	MP1B	X	-.604	7.5
119	MP1B	Z	1.046	7.5
120	MP1B	Mx	1.208e-6	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-5.199	1.25
2	MP1A	Z	3.002	1.25
3	MP1A	Mx	4.967e-6	1.25
4	MP1A	X	-5.199	5.25
5	MP1A	Z	3.002	5.25
6	MP1A	Mx	4.967e-6	5.25
7	MP1B	X	-3.468	1.25
8	MP1B	Z	2.002	1.25
9	MP1B	Mx	-3.99e-7	1.25
10	MP1B	X	-3.468	5.25
11	MP1B	Z	2.002	5.25
12	MP1B	Mx	-3.99e-7	5.25
13	MP1C	X	-6.065	1.25
14	MP1C	Z	3.502	1.25
15	MP1C	Mx	-4.669e-6	1.25
16	MP1C	X	-6.065	5.25
17	MP1C	Z	3.502	5.25
18	MP1C	Mx	-4.669e-6	5.25
19	MP1A	X	-5.199	1.25
20	MP1A	Z	3.002	1.25
21	MP1A	Mx	-1.965e-6	1.25
22	MP1A	X	-5.199	5.25
23	MP1A	Z	3.002	5.25
24	MP1A	Mx	-1.965e-6	5.25
25	MP1B	X	-3.468	1.25
26	MP1B	Z	2.002	1.25
27	MP1B	Mx	-3.069e-6	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
28	MP1B	X	-3.468	5.25
29	MP1B	Z	2.002	5.25
30	MP1B	Mx	-3.069e-6	5.25
31	MP1C	X	-6.065	1.25
32	MP1C	Z	3.502	1.25
33	MP1C	Mx	4.669e-6	1.25
34	MP1C	X	-6.065	5.25
35	MP1C	Z	3.502	5.25
36	MP1C	Mx	4.669e-6	5.25
37	MP2A	X	-5.199	1.25
38	MP2A	Z	3.002	1.25
39	MP2A	Mx	4.967e-6	1.25
40	MP2A	X	-5.199	5.25
41	MP2A	Z	3.002	5.25
42	MP2A	Mx	4.967e-6	5.25
43	MP2B	X	-3.468	1.25
44	MP2B	Z	2.002	1.25
45	MP2B	Mx	-3.99e-7	1.25
46	MP2B	X	-3.468	5.25
47	MP2B	Z	2.002	5.25
48	MP2B	Mx	-3.99e-7	5.25
49	MP2C	X	-6.065	1.25
50	MP2C	Z	3.502	1.25
51	MP2C	Mx	-4.669e-6	1.25
52	MP2C	X	-6.065	5.25
53	MP2C	Z	3.502	5.25
54	MP2C	Mx	-4.669e-6	5.25
55	MP2A	X	-5.199	1.25
56	MP2A	Z	3.002	1.25
57	MP2A	Mx	-1.965e-6	1.25
58	MP2A	X	-5.199	5.25
59	MP2A	Z	3.002	5.25
60	MP2A	Mx	-1.965e-6	5.25
61	MP2B	X	-3.468	1.25
62	MP2B	Z	2.002	1.25
63	MP2B	Mx	-3.069e-6	1.25
64	MP2B	X	-3.468	5.25
65	MP2B	Z	2.002	5.25
66	MP2B	Mx	-3.069e-6	5.25
67	MP2C	X	-6.065	1.25
68	MP2C	Z	3.502	1.25
69	MP2C	Mx	4.669e-6	1.25
70	MP2C	X	-6.065	5.25
71	MP2C	Z	3.502	5.25
72	MP2C	Mx	4.669e-6	5.25
73	MP1A	X	-3.178	4
74	MP1A	Z	1.835	4
75	MP1A	Mx	2.384e-6	4
76	MP1B	X	-2.608	4
77	MP1B	Z	1.506	4
78	MP1B	Mx	1.129e-6	4
79	MP1C	X	-3.463	4
80	MP1C	Z	1.999	4
81	MP1C	Mx	-2.999e-6	4
82	MP1A	X	-3.072	4
83	MP1A	Z	1.773	4
84	MP1A	Mx	-2.304e-6	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
85	MP1B	X	-2.29	4
86	MP1B	Z	1.322	4
87	MP1B	Mx	-9.92e-7	4
88	MP1C	X	-3.463	4
89	MP1C	Z	1.999	4
90	MP1C	Mx	2.999e-6	4
91	OVP	X	-6.657	.75
92	OVP	Z	3.843	.75
93	OVP	Mx	-2.883e-6	.75
94	OVP	X	-5.808	.75
95	OVP	Z	3.353	.75
96	OVP	Mx	4.356e-6	.75
97	MP1A	X	-1.066	6.5
98	MP1A	Z	.615	6.5
99	MP1A	Mx	-9.71e-7	6.5
100	MP1A	X	-1.066	7.5
101	MP1A	Z	.615	7.5
102	MP1A	Mx	-9.71e-7	7.5
103	MP1B	X	-1.052	6.5
104	MP1B	Z	.608	6.5
105	MP1B	Mx	8.5e-7	6.5
106	MP1B	X	-1.052	7.5
107	MP1B	Z	.608	7.5
108	MP1B	Mx	8.5e-7	7.5
109	MP1A	X	-1.066	6.5
110	MP1A	Z	.615	6.5
111	MP1A	Mx	-2.6e-7	6.5
112	MP1A	X	-1.066	7.5
113	MP1A	Z	.615	7.5
114	MP1A	Mx	-2.6e-7	7.5
115	MP1B	X	-1.052	6.5
116	MP1B	Z	.608	6.5
117	MP1B	Mx	1.255e-6	6.5
118	MP1B	X	-1.052	7.5
119	MP1B	Z	.608	7.5
120	MP1B	Mx	1.255e-6	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-4.005	1.25
2	MP1A	Z	0	1.25
3	MP1A	Mx	3.069e-6	1.25
4	MP1A	X	-4.005	5.25
5	MP1A	Z	0	5.25
6	MP1A	Mx	3.069e-6	5.25
7	MP1B	X	-6.004	1.25
8	MP1B	Z	0	1.25
9	MP1B	Mx	1.965e-6	1.25
10	MP1B	X	-6.004	5.25
11	MP1B	Z	0	5.25
12	MP1B	Mx	1.965e-6	5.25
13	MP1C	X	-6.004	1.25
14	MP1C	Z	0	1.25
15	MP1C	Mx	-4.967e-6	1.25
16	MP1C	X	-6.004	5.25
17	MP1C	Z	0	5.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP1C	Mx	-4.967e-6	5.25
19	MP1A	X	-4.005	1.25
20	MP1A	Z	0	1.25
21	MP1A	Mx	3.99e-7	1.25
22	MP1A	X	-4.005	5.25
23	MP1A	Z	0	5.25
24	MP1A	Mx	3.99e-7	5.25
25	MP1B	X	-6.004	1.25
26	MP1B	Z	0	1.25
27	MP1B	Mx	-4.967e-6	1.25
28	MP1B	X	-6.004	5.25
29	MP1B	Z	0	5.25
30	MP1B	Mx	-4.967e-6	5.25
31	MP1C	X	-6.004	1.25
32	MP1C	Z	0	1.25
33	MP1C	Mx	1.965e-6	1.25
34	MP1C	X	-6.004	5.25
35	MP1C	Z	0	5.25
36	MP1C	Mx	1.965e-6	5.25
37	MP2A	X	-4.005	1.25
38	MP2A	Z	0	1.25
39	MP2A	Mx	3.069e-6	1.25
40	MP2A	X	-4.005	5.25
41	MP2A	Z	0	5.25
42	MP2A	Mx	3.069e-6	5.25
43	MP2B	X	-6.004	1.25
44	MP2B	Z	0	1.25
45	MP2B	Mx	1.965e-6	1.25
46	MP2B	X	-6.004	5.25
47	MP2B	Z	0	5.25
48	MP2B	Mx	1.965e-6	5.25
49	MP2C	X	-6.004	1.25
50	MP2C	Z	0	1.25
51	MP2C	Mx	-4.967e-6	1.25
52	MP2C	X	-6.004	5.25
53	MP2C	Z	0	5.25
54	MP2C	Mx	-4.967e-6	5.25
55	MP2A	X	-4.005	1.25
56	MP2A	Z	0	1.25
57	MP2A	Mx	3.99e-7	1.25
58	MP2A	X	-4.005	5.25
59	MP2A	Z	0	5.25
60	MP2A	Mx	3.99e-7	5.25
61	MP2B	X	-6.004	1.25
62	MP2B	Z	0	1.25
63	MP2B	Mx	-4.967e-6	1.25
64	MP2B	X	-6.004	5.25
65	MP2B	Z	0	5.25
66	MP2B	Mx	-4.967e-6	5.25
67	MP2C	X	-6.004	1.25
68	MP2C	Z	0	1.25
69	MP2C	Mx	1.965e-6	1.25
70	MP2C	X	-6.004	5.25
71	MP2C	Z	0	5.25
72	MP2C	Mx	1.965e-6	5.25
73	MP1A	X	-3.012	4
74	MP1A	Z	0	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
75	MP1A	Mx	1.13e-6	4
76	MP1B	X	-3.669	4
77	MP1B	Z	0	4
78	MP1B	Mx	2.383e-6	4
79	MP1C	X	-3.669	4
80	MP1C	Z	0	4
81	MP1C	Mx	-2.383e-6	4
82	MP1A	X	-2.644	4
83	MP1A	Z	0	4
84	MP1A	Mx	-9.92e-7	4
85	MP1B	X	-3.547	4
86	MP1B	Z	0	4
87	MP1B	Mx	-2.304e-6	4
88	MP1C	X	-3.547	4
89	MP1C	Z	0	4
90	MP1C	Mx	2.304e-6	4
91	OVP	X	-6.707	.75
92	OVP	Z	0	.75
93	OVP	Mx	-4.356e-6	.75
94	OVP	X	-7.687	.75
95	OVP	Z	0	.75
96	OVP	Mx	2.883e-6	.75
97	MP1A	X	-1.215	6.5
98	MP1A	Z	0	6.5
99	MP1A	Mx	-1.255e-6	6.5
100	MP1A	X	-1.215	7.5
101	MP1A	Z	0	7.5
102	MP1A	Mx	-1.255e-6	7.5
103	MP1B	X	-1.231	6.5
104	MP1B	Z	0	6.5
105	MP1B	Mx	2.6e-7	6.5
106	MP1B	X	-1.231	7.5
107	MP1B	Z	0	7.5
108	MP1B	Mx	2.6e-7	7.5
109	MP1A	X	-1.215	6.5
110	MP1A	Z	0	6.5
111	MP1A	Mx	-8.5e-7	6.5
112	MP1A	X	-1.215	7.5
113	MP1A	Z	0	7.5
114	MP1A	Mx	-8.5e-7	7.5
115	MP1B	X	-1.231	6.5
116	MP1B	Z	0	6.5
117	MP1B	Mx	9.71e-7	6.5
118	MP1B	X	-1.231	7.5
119	MP1B	Z	0	7.5
120	MP1B	Mx	9.71e-7	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-2.603	1.25
2	MP1A	Z	-1.503	1.25
3	MP1A	Mx	1.503e-6	1.25
4	MP1A	X	-2.603	5.25
5	MP1A	Z	-1.503	5.25
6	MP1A	Mx	1.503e-6	5.25
7	MP1B	X	-6.065	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP1B	Z	-3.502	1.25
9	MP1B	Mx	4.669e-6	1.25
10	MP1B	X	-6.065	5.25
11	MP1B	Z	-3.502	5.25
12	MP1B	Mx	4.669e-6	5.25
13	MP1C	X	-3.468	1.25
14	MP1C	Z	-2.002	1.25
15	MP1C	Mx	-3.069e-6	1.25
16	MP1C	X	-3.468	5.25
17	MP1C	Z	-2.002	5.25
18	MP1C	Mx	-3.069e-6	5.25
19	MP1A	X	-2.603	1.25
20	MP1A	Z	-1.503	1.25
21	MP1A	Mx	1.503e-6	1.25
22	MP1A	X	-2.603	5.25
23	MP1A	Z	-1.503	5.25
24	MP1A	Mx	1.503e-6	5.25
25	MP1B	X	-6.065	1.25
26	MP1B	Z	-3.502	1.25
27	MP1B	Mx	-4.669e-6	1.25
28	MP1B	X	-6.065	5.25
29	MP1B	Z	-3.502	5.25
30	MP1B	Mx	-4.669e-6	5.25
31	MP1C	X	-3.468	1.25
32	MP1C	Z	-2.002	1.25
33	MP1C	Mx	-3.99e-7	1.25
34	MP1C	X	-3.468	5.25
35	MP1C	Z	-2.002	5.25
36	MP1C	Mx	-3.99e-7	5.25
37	MP2A	X	-2.603	1.25
38	MP2A	Z	-1.503	1.25
39	MP2A	Mx	1.503e-6	1.25
40	MP2A	X	-2.603	5.25
41	MP2A	Z	-1.503	5.25
42	MP2A	Mx	1.503e-6	5.25
43	MP2B	X	-6.065	1.25
44	MP2B	Z	-3.502	1.25
45	MP2B	Mx	4.669e-6	1.25
46	MP2B	X	-6.065	5.25
47	MP2B	Z	-3.502	5.25
48	MP2B	Mx	4.669e-6	5.25
49	MP2C	X	-3.468	1.25
50	MP2C	Z	-2.002	1.25
51	MP2C	Mx	-3.069e-6	1.25
52	MP2C	X	-3.468	5.25
53	MP2C	Z	-2.002	5.25
54	MP2C	Mx	-3.069e-6	5.25
55	MP2A	X	-2.603	1.25
56	MP2A	Z	-1.503	1.25
57	MP2A	Mx	1.503e-6	1.25
58	MP2A	X	-2.603	5.25
59	MP2A	Z	-1.503	5.25
60	MP2A	Mx	1.503e-6	5.25
61	MP2B	X	-6.065	1.25
62	MP2B	Z	-3.502	1.25
63	MP2B	Mx	-4.669e-6	1.25
64	MP2B	X	-6.065	5.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
65	MP2B	Z	-3.502	5.25
66	MP2B	Mx	-4.669e-6	5.25
67	MP2C	X	-3.468	1.25
68	MP2C	Z	-2.002	1.25
69	MP2C	Mx	-3.99e-7	1.25
70	MP2C	X	-3.468	5.25
71	MP2C	Z	-2.002	5.25
72	MP2C	Mx	-3.99e-7	5.25
73	MP1A	X	-2.323	4
74	MP1A	Z	-1.341	4
75	MP1A	Mx	0	4
76	MP1B	X	-3.463	4
77	MP1B	Z	-1.999	4
78	MP1B	Mx	2.999e-6	4
79	MP1C	X	-2.608	4
80	MP1C	Z	-1.506	4
81	MP1C	Mx	-1.129e-6	4
82	MP1A	X	-1.899	4
83	MP1A	Z	-1.096	4
84	MP1A	Mx	0	4
85	MP1B	X	-3.463	4
86	MP1B	Z	-1.999	4
87	MP1B	Mx	-2.999e-6	4
88	MP1C	X	-2.29	4
89	MP1C	Z	-1.322	4
90	MP1C	Mx	9.92e-7	4
91	OVP	X	-5.384	.75
92	OVP	Z	-3.108	.75
93	OVP	Mx	-4.663e-6	.75
94	OVP	X	-7.082	.75
95	OVP	Z	-4.089	.75
96	OVP	Mx	0	.75
97	MP1A	X	-1.046	6.5
98	MP1A	Z	-.604	6.5
99	MP1A	Mx	-1.208e-6	6.5
100	MP1A	X	-1.046	7.5
101	MP1A	Z	-.604	7.5
102	MP1A	Mx	-1.208e-6	7.5
103	MP1B	X	-1.072	6.5
104	MP1B	Z	-.619	6.5
105	MP1B	Mx	-4.13e-7	6.5
106	MP1B	X	-1.072	7.5
107	MP1B	Z	-.619	7.5
108	MP1B	Mx	-4.13e-7	7.5
109	MP1A	X	-1.046	6.5
110	MP1A	Z	-.604	6.5
111	MP1A	Mx	-1.208e-6	6.5
112	MP1A	X	-1.046	7.5
113	MP1A	Z	-.604	7.5
114	MP1A	Mx	-1.208e-6	7.5
115	MP1B	X	-1.072	6.5
116	MP1B	Z	-.619	6.5
117	MP1B	Mx	4.13e-7	6.5
118	MP1B	X	-1.072	7.5
119	MP1B	Z	-.619	7.5
120	MP1B	Mx	4.13e-7	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-2.002	1.25
2	MP1A	Z	-3.468	1.25
3	MP1A	Mx	3.99e-7	1.25
4	MP1A	X	-2.002	5.25
5	MP1A	Z	-3.468	5.25
6	MP1A	Mx	3.99e-7	5.25
7	MP1B	X	-3.002	1.25
8	MP1B	Z	-5.199	1.25
9	MP1B	Mx	4.967e-6	1.25
10	MP1B	X	-3.002	5.25
11	MP1B	Z	-5.199	5.25
12	MP1B	Mx	4.967e-6	5.25
13	MP1C	X	-1.503	1.25
14	MP1C	Z	-2.603	1.25
15	MP1C	Mx	-1.503e-6	1.25
16	MP1C	X	-1.503	5.25
17	MP1C	Z	-2.603	5.25
18	MP1C	Mx	-1.503e-6	5.25
19	MP1A	X	-2.002	1.25
20	MP1A	Z	-3.468	1.25
21	MP1A	Mx	3.069e-6	1.25
22	MP1A	X	-2.002	5.25
23	MP1A	Z	-3.468	5.25
24	MP1A	Mx	3.069e-6	5.25
25	MP1B	X	-3.002	1.25
26	MP1B	Z	-5.199	1.25
27	MP1B	Mx	-1.965e-6	1.25
28	MP1B	X	-3.002	5.25
29	MP1B	Z	-5.199	5.25
30	MP1B	Mx	-1.965e-6	5.25
31	MP1C	X	-1.503	1.25
32	MP1C	Z	-2.603	1.25
33	MP1C	Mx	-1.503e-6	1.25
34	MP1C	X	-1.503	5.25
35	MP1C	Z	-2.603	5.25
36	MP1C	Mx	-1.503e-6	5.25
37	MP2A	X	-2.002	1.25
38	MP2A	Z	-3.468	1.25
39	MP2A	Mx	3.99e-7	1.25
40	MP2A	X	-2.002	5.25
41	MP2A	Z	-3.468	5.25
42	MP2A	Mx	3.99e-7	5.25
43	MP2B	X	-3.002	1.25
44	MP2B	Z	-5.199	1.25
45	MP2B	Mx	4.967e-6	1.25
46	MP2B	X	-3.002	5.25
47	MP2B	Z	-5.199	5.25
48	MP2B	Mx	4.967e-6	5.25
49	MP2C	X	-1.503	1.25
50	MP2C	Z	-2.603	1.25
51	MP2C	Mx	-1.503e-6	1.25
52	MP2C	X	-1.503	5.25
53	MP2C	Z	-2.603	5.25
54	MP2C	Mx	-1.503e-6	5.25
55	MP2A	X	-2.002	1.25
56	MP2A	Z	-3.468	1.25
57	MP2A	Mx	3.069e-6	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2A	X	-2.002	5.25
59	MP2A	Z	-3.468	5.25
60	MP2A	Mx	3.069e-6	5.25
61	MP2B	X	-3.002	1.25
62	MP2B	Z	-5.199	1.25
63	MP2B	Mx	-1.965e-6	1.25
64	MP2B	X	-3.002	5.25
65	MP2B	Z	-5.199	5.25
66	MP2B	Mx	-1.965e-6	5.25
67	MP2C	X	-1.503	1.25
68	MP2C	Z	-2.603	1.25
69	MP2C	Mx	-1.503e-6	1.25
70	MP2C	X	-1.503	5.25
71	MP2C	Z	-2.603	5.25
72	MP2C	Mx	-1.503e-6	5.25
73	MP1A	X	-1.506	4
74	MP1A	Z	-2.608	4
75	MP1A	Mx	-1.129e-6	4
76	MP1B	X	-1.835	4
77	MP1B	Z	-3.178	4
78	MP1B	Mx	2.384e-6	4
79	MP1C	X	-1.341	4
80	MP1C	Z	-2.323	4
81	MP1C	Mx	0	4
82	MP1A	X	-1.322	4
83	MP1A	Z	-2.29	4
84	MP1A	Mx	9.92e-7	4
85	MP1B	X	-1.773	4
86	MP1B	Z	-3.072	4
87	MP1B	Mx	-2.304e-6	4
88	MP1C	X	-1.096	4
89	MP1C	Z	-1.899	4
90	MP1C	Mx	0	4
91	OVP	X	-3.353	.75
92	OVP	Z	-5.808	.75
93	OVP	Mx	-4.356e-6	.75
94	OVP	X	-3.843	.75
95	OVP	Z	-6.657	.75
96	OVP	Mx	-2.883e-6	.75
97	MP1A	X	-.608	6.5
98	MP1A	Z	-1.052	6.5
99	MP1A	Mx	-8.5e-7	6.5
100	MP1A	X	-.608	7.5
101	MP1A	Z	-1.052	7.5
102	MP1A	Mx	-8.5e-7	7.5
103	MP1B	X	-.615	6.5
104	MP1B	Z	-1.066	6.5
105	MP1B	Mx	-9.71e-7	6.5
106	MP1B	X	-.615	7.5
107	MP1B	Z	-1.066	7.5
108	MP1B	Mx	-9.71e-7	7.5
109	MP1A	X	-.608	6.5
110	MP1A	Z	-1.052	6.5
111	MP1A	Mx	-1.255e-6	6.5
112	MP1A	X	-.608	7.5
113	MP1A	Z	-1.052	7.5
114	MP1A	Mx	-1.255e-6	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
115	MP1B	X	-.615	6.5
116	MP1B	Z	-1.066	6.5
117	MP1B	Mx	-2.6e-7	6.5
118	MP1B	X	-.615	7.5
119	MP1B	Z	-1.066	7.5
120	MP1B	Mx	-2.6e-7	7.5

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M38	Y	-500	0

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M40	Y	-500	0

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M32	Y	-250	%100

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M32	Y	-250	%50

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Y	-.9	1.25
2	MP1A	My	-6.89e-7	1.25
3	MP1A	Mz	2.94e-7	1.25
4	MP1A	Y	-.9	5.25
5	MP1A	My	-6.89e-7	5.25
6	MP1A	Mz	2.94e-7	5.25
7	MP1B	Y	-.9	1.25
8	MP1B	My	-2.94e-7	1.25
9	MP1B	Mz	-6.89e-7	1.25
10	MP1B	Y	-.9	5.25
11	MP1B	My	-2.94e-7	5.25
12	MP1B	Mz	-6.89e-7	5.25
13	MP1C	Y	-.9	1.25
14	MP1C	My	7.44e-7	1.25
15	MP1C	Mz	9e-8	1.25
16	MP1C	Y	-.9	5.25
17	MP1C	My	7.44e-7	5.25
18	MP1C	Mz	9e-8	5.25
19	MP1A	Y	-.9	1.25
20	MP1A	My	-9e-8	1.25
21	MP1A	Mz	-7.44e-7	1.25
22	MP1A	Y	-.9	5.25
23	MP1A	My	-9e-8	5.25
24	MP1A	Mz	-7.44e-7	5.25
25	MP1B	Y	-.9	1.25
26	MP1B	My	7.44e-7	1.25
27	MP1B	Mz	-9e-8	1.25
28	MP1B	Y	-.9	5.25
29	MP1B	My	7.44e-7	5.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP1B	Mz	-9e-8	5.25
31	MP1C	Y	-.9	1.25
32	MP1C	My	-2.94e-7	1.25
33	MP1C	Mz	6.89e-7	1.25
34	MP1C	Y	-.9	5.25
35	MP1C	My	-2.94e-7	5.25
36	MP1C	Mz	6.89e-7	5.25
37	MP2A	Y	-.9	1.25
38	MP2A	My	-6.89e-7	1.25
39	MP2A	Mz	2.94e-7	1.25
40	MP2A	Y	-.9	5.25
41	MP2A	My	-6.89e-7	5.25
42	MP2A	Mz	2.94e-7	5.25
43	MP2B	Y	-.9	1.25
44	MP2B	My	-2.94e-7	1.25
45	MP2B	Mz	-6.89e-7	1.25
46	MP2B	Y	-.9	5.25
47	MP2B	My	-2.94e-7	5.25
48	MP2B	Mz	-6.89e-7	5.25
49	MP2C	Y	-.9	1.25
50	MP2C	My	7.44e-7	1.25
51	MP2C	Mz	9e-8	1.25
52	MP2C	Y	-.9	5.25
53	MP2C	My	7.44e-7	5.25
54	MP2C	Mz	9e-8	5.25
55	MP2A	Y	-.9	1.25
56	MP2A	My	-9e-8	1.25
57	MP2A	Mz	-7.44e-7	1.25
58	MP2A	Y	-.9	5.25
59	MP2A	My	-9e-8	5.25
60	MP2A	Mz	-7.44e-7	5.25
61	MP2B	Y	-.9	1.25
62	MP2B	My	7.44e-7	1.25
63	MP2B	Mz	-9e-8	1.25
64	MP2B	Y	-.9	5.25
65	MP2B	My	7.44e-7	5.25
66	MP2B	Mz	-9e-8	5.25
67	MP2C	Y	-.9	1.25
68	MP2C	My	-2.94e-7	1.25
69	MP2C	Mz	6.89e-7	1.25
70	MP2C	Y	-.9	5.25
71	MP2C	My	-2.94e-7	5.25
72	MP2C	Mz	6.89e-7	5.25
73	MP1A	Y	-3.475	4
74	MP1A	My	-1.303e-6	4
75	MP1A	Mz	2.257e-6	4
76	MP1B	Y	-3.475	4
77	MP1B	My	-2.257e-6	4
78	MP1B	Mz	-1.303e-6	4
79	MP1C	Y	-3.475	4
80	MP1C	My	2.257e-6	4
81	MP1C	Mz	-1.303e-6	4
82	MP1A	Y	-2.894	4
83	MP1A	My	1.085e-6	4
84	MP1A	Mz	-1.88e-6	4
85	MP1B	Y	-2.894	4
86	MP1B	My	1.88e-6	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
87	MP1B	Mz	1.085e-6	4
88	MP1C	Y	-2.894	4
89	MP1C	My	-1.88e-6	4
90	MP1C	Mz	1.085e-6	4
91	OVP	Y	-1.318	.75
92	OVP	My	8.56e-7	.75
93	OVP	Mz	4.94e-7	.75
94	OVP	Y	-1.318	.75
95	OVP	My	-4.94e-7	.75
96	OVP	Mz	8.56e-7	.75
97	MP1A	Y	-.362	6.5
98	MP1A	My	3.74e-7	6.5
99	MP1A	Mz	7.7e-8	6.5
100	MP1A	Y	-.362	7.5
101	MP1A	My	3.74e-7	7.5
102	MP1A	Mz	7.7e-8	7.5
103	MP1B	Y	-.362	6.5
104	MP1B	My	-7.7e-8	6.5
105	MP1B	Mz	3.74e-7	6.5
106	MP1B	Y	-.362	7.5
107	MP1B	My	-7.7e-8	7.5
108	MP1B	Mz	3.74e-7	7.5
109	MP1A	Y	-.362	6.5
110	MP1A	My	2.53e-7	6.5
111	MP1A	Mz	2.86e-7	6.5
112	MP1A	Y	-.362	7.5
113	MP1A	My	2.53e-7	7.5
114	MP1A	Mz	2.86e-7	7.5
115	MP1B	Y	-.362	6.5
116	MP1B	My	-2.86e-7	6.5
117	MP1B	Mz	2.53e-7	6.5
118	MP1B	Y	-.362	7.5
119	MP1B	My	-2.86e-7	7.5
120	MP1B	Mz	2.53e-7	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Z	-2.249	1.25
2	MP1A	Mx	-7.36e-7	1.25
3	MP1A	Z	-2.249	5.25
4	MP1A	Mx	-7.36e-7	5.25
5	MP1B	Z	-2.249	1.25
6	MP1B	Mx	1.724e-6	1.25
7	MP1B	Z	-2.249	5.25
8	MP1B	Mx	1.724e-6	5.25
9	MP1C	Z	-2.249	1.25
10	MP1C	Mx	-2.24e-7	1.25
11	MP1C	Z	-2.249	5.25
12	MP1C	Mx	-2.24e-7	5.25
13	MP1A	Z	-2.249	1.25
14	MP1A	Mx	1.861e-6	1.25
15	MP1A	Z	-2.249	5.25
16	MP1A	Mx	1.861e-6	5.25
17	MP1B	Z	-2.249	1.25
18	MP1B	Mx	2.24e-7	1.25
19	MP1B	Z	-2.249	5.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
20	MP1B	Mx	2.24e-7	5.25
21	MP1C	Z	-2.249	1.25
22	MP1C	Mx	-1.724e-6	1.25
23	MP1C	Z	-2.249	5.25
24	MP1C	Mx	-1.724e-6	5.25
25	MP2A	Z	-2.249	1.25
26	MP2A	Mx	-7.36e-7	1.25
27	MP2A	Z	-2.249	5.25
28	MP2A	Mx	-7.36e-7	5.25
29	MP2B	Z	-2.249	1.25
30	MP2B	Mx	1.724e-6	1.25
31	MP2B	Z	-2.249	5.25
32	MP2B	Mx	1.724e-6	5.25
33	MP2C	Z	-2.249	1.25
34	MP2C	Mx	-2.24e-7	1.25
35	MP2C	Z	-2.249	5.25
36	MP2C	Mx	-2.24e-7	5.25
37	MP2A	Z	-2.249	1.25
38	MP2A	Mx	1.861e-6	1.25
39	MP2A	Z	-2.249	5.25
40	MP2A	Mx	1.861e-6	5.25
41	MP2B	Z	-2.249	1.25
42	MP2B	Mx	2.24e-7	1.25
43	MP2B	Z	-2.249	5.25
44	MP2B	Mx	2.24e-7	5.25
45	MP2C	Z	-2.249	1.25
46	MP2C	Mx	-1.724e-6	1.25
47	MP2C	Z	-2.249	5.25
48	MP2C	Mx	-1.724e-6	5.25
49	MP1A	Z	-8.688	4
50	MP1A	Mx	-5.643e-6	4
51	MP1B	Z	-8.688	4
52	MP1B	Mx	3.258e-6	4
53	MP1C	Z	-8.688	4
54	MP1C	Mx	3.258e-6	4
55	MP1A	Z	-7.236	4
56	MP1A	Mx	4.7e-6	4
57	MP1B	Z	-7.236	4
58	MP1B	Mx	-2.714e-6	4
59	MP1C	Z	-7.236	4
60	MP1C	Mx	-2.714e-6	4
61	OVP	Z	-3.294	.75
62	OVP	Mx	-1.235e-6	.75
63	OVP	Z	-3.294	.75
64	OVP	Mx	-2.139e-6	.75
65	MP1A	Z	-.906	6.5
66	MP1A	Mx	-1.91e-7	6.5
67	MP1A	Z	-.906	7.5
68	MP1A	Mx	-1.91e-7	7.5
69	MP1B	Z	-.906	6.5
70	MP1B	Mx	-9.35e-7	6.5
71	MP1B	Z	-.906	7.5
72	MP1B	Mx	-9.35e-7	7.5
73	MP1A	Z	-.906	6.5
74	MP1A	Mx	-7.14e-7	6.5
75	MP1A	Z	-.906	7.5
76	MP1A	Mx	-7.14e-7	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
77	MP1B	Z	-.906	6.5
78	MP1B	Mx	-6.33e-7	6.5
79	MP1B	Z	-.906	7.5
80	MP1B	Mx	-6.33e-7	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	2.249	1.25
2	MP1A	Mx	-1.724e-6	1.25
3	MP1A	X	2.249	5.25
4	MP1A	Mx	-1.724e-6	5.25
5	MP1B	X	2.249	1.25
6	MP1B	Mx	-7.36e-7	1.25
7	MP1B	X	2.249	5.25
8	MP1B	Mx	-7.36e-7	5.25
9	MP1C	X	2.249	1.25
10	MP1C	Mx	1.861e-6	1.25
11	MP1C	X	2.249	5.25
12	MP1C	Mx	1.861e-6	5.25
13	MP1A	X	2.249	1.25
14	MP1A	Mx	-2.24e-7	1.25
15	MP1A	X	2.249	5.25
16	MP1A	Mx	-2.24e-7	5.25
17	MP1B	X	2.249	1.25
18	MP1B	Mx	1.861e-6	1.25
19	MP1B	X	2.249	5.25
20	MP1B	Mx	1.861e-6	5.25
21	MP1C	X	2.249	1.25
22	MP1C	Mx	-7.36e-7	1.25
23	MP1C	X	2.249	5.25
24	MP1C	Mx	-7.36e-7	5.25
25	MP2A	X	2.249	1.25
26	MP2A	Mx	-1.724e-6	1.25
27	MP2A	X	2.249	5.25
28	MP2A	Mx	-1.724e-6	5.25
29	MP2B	X	2.249	1.25
30	MP2B	Mx	-7.36e-7	1.25
31	MP2B	X	2.249	5.25
32	MP2B	Mx	-7.36e-7	5.25
33	MP2C	X	2.249	1.25
34	MP2C	Mx	1.861e-6	1.25
35	MP2C	X	2.249	5.25
36	MP2C	Mx	1.861e-6	5.25
37	MP2A	X	2.249	1.25
38	MP2A	Mx	-2.24e-7	1.25
39	MP2A	X	2.249	5.25
40	MP2A	Mx	-2.24e-7	5.25
41	MP2B	X	2.249	1.25
42	MP2B	Mx	1.861e-6	1.25
43	MP2B	X	2.249	5.25
44	MP2B	Mx	1.861e-6	5.25
45	MP2C	X	2.249	1.25
46	MP2C	Mx	-7.36e-7	1.25
47	MP2C	X	2.249	5.25
48	MP2C	Mx	-7.36e-7	5.25
49	MP1A	X	8.688	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
50	MP1A	Mx	-3.258e-6	4
51	MP1B	X	8.688	4
52	MP1B	Mx	-5.643e-6	4
53	MP1C	X	8.688	4
54	MP1C	Mx	5.643e-6	4
55	MP1A	X	7.236	4
56	MP1A	Mx	2.714e-6	4
57	MP1B	X	7.236	4
58	MP1B	Mx	4.7e-6	4
59	MP1C	X	7.236	4
60	MP1C	Mx	-4.7e-6	4
61	OVP	X	3.294	.75
62	OVP	Mx	2.139e-6	.75
63	OVP	X	3.294	.75
64	OVP	Mx	-1.235e-6	.75
65	MP1A	X	.906	6.5
66	MP1A	Mx	9.35e-7	6.5
67	MP1A	X	.906	7.5
68	MP1A	Mx	9.35e-7	7.5
69	MP1B	X	.906	6.5
70	MP1B	Mx	-1.91e-7	6.5
71	MP1B	X	.906	7.5
72	MP1B	Mx	-1.91e-7	7.5
73	MP1A	X	.906	6.5
74	MP1A	Mx	6.33e-7	6.5
75	MP1A	X	.906	7.5
76	MP1A	Mx	6.33e-7	7.5
77	MP1B	X	.906	6.5
78	MP1B	Mx	-7.14e-7	6.5
79	MP1B	X	.906	7.5
80	MP1B	Mx	-7.14e-7	7.5

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	Y	-8.589	-8.589	0	%100
2	M2	Y	-10.95	-10.95	0	%100
3	M6	Y	-13.049	-13.049	0	%100
4	M10	Y	-15.477	-15.477	0	%100
5	MP1A	Y	-8.589	-8.589	0	%100
6	MP2A	Y	-8.589	-8.589	0	%100
7	M15	Y	-11.025	-11.025	0	%100
8	M16	Y	-11.025	-11.025	0	%100
9	OVP	Y	-7.592	-7.592	0	%100
10	M16A	Y	-8.589	-8.589	0	%100
11	M17A	Y	-10.95	-10.95	0	%100
12	M19	Y	-13.049	-13.049	0	%100
13	M21	Y	-15.477	-15.477	0	%100
14	MP1C	Y	-8.589	-8.589	0	%100
15	MP2C	Y	-8.589	-8.589	0	%100
16	M28	Y	-11.025	-11.025	0	%100
17	M29	Y	-11.025	-11.025	0	%100
18	M31	Y	-8.589	-8.589	0	%100
19	M32	Y	-10.95	-10.95	0	%100
20	M34	Y	-13.049	-13.049	0	%100
21	M36	Y	-15.477	-15.477	0	%100

Member Distributed Loads (BLC 40 : Structure Di) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
22	MP1B	Y	-8.589	-8.589	0	%100
23	MP2B	Y	-8.589	-8.589	0	%100
24	M43	Y	-11.025	-11.025	0	%100
25	M44	Y	-11.025	-11.025	0	%100
26	M46	Y	-8.589	-8.589	0	%100
27	M47	Y	-8.589	-8.589	0	%100
28	M48	Y	-8.589	-8.589	0	%100

Member Distributed Loads (BLC 41 : Structure Wo (0 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-9.802	-9.802	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-12.085	-12.085	0	%100
5	M6	X	0	0	0	%100
6	M6	Z	-9.994	-9.994	0	%100
7	M10	X	0	0	0	%100
8	M10	Z	0	0	0	%100
9	MP1A	X	0	0	0	%100
10	MP1A	Z	-9.802	-9.802	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	-9.802	-9.802	0	%100
13	M15	X	0	0	0	%100
14	M15	Z	-5.973	-5.973	0	%100
15	M16	X	0	0	0	%100
16	M16	Z	-5.973	-5.973	0	%100
17	OVP	X	0	0	0	%100
18	OVP	Z	-6.963	-6.963	0	%100
19	M16A	X	0	0	0	%100
20	M16A	Z	-2.451	-2.451	0	%100
21	M17A	X	0	0	0	%100
22	M17A	Z	-3.021	-3.021	0	%100
23	M19	X	0	0	0	%100
24	M19	Z	-9.994	-9.994	0	%100
25	M21	X	0	0	0	%100
26	M21	Z	-9.537	-9.537	0	%100
27	MP1C	X	0	0	0	%100
28	MP1C	Z	-9.802	-9.802	0	%100
29	MP2C	X	0	0	0	%100
30	MP2C	Z	-9.802	-9.802	0	%100
31	M28	X	0	0	0	%100
32	M28	Z	-15.786	-15.786	0	%100
33	M29	X	0	0	0	%100
34	M29	Z	-6.893	-6.893	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	-2.451	-2.451	0	%100
37	M32	X	0	0	0	%100
38	M32	Z	-3.021	-3.021	0	%100
39	M34	X	0	0	0	%100
40	M34	Z	-9.994	-9.994	0	%100
41	M36	X	0	0	0	%100
42	M36	Z	-9.537	-9.537	0	%100
43	MP1B	X	0	0	0	%100
44	MP1B	Z	-9.802	-9.802	0	%100
45	MP2B	X	0	0	0	%100
46	MP2B	Z	-9.802	-9.802	0	%100

Member Distributed Loads (BLC 41 : Structure Wo (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
47	M43	X	0	0	0	%100
48	M43	Z	-6.893	-6.893	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	-15.786	-15.786	0	%100
51	M46	X	0	0	0	%100
52	M46	Z	-2.415	-2.415	0	%100
53	M47	X	0	0	0	%100
54	M47	Z	-2.415	-2.415	0	%100
55	M48	X	0	0	0	%100
56	M48	Z	-9.66	-9.66	0	%100

Member Distributed Loads (BLC 42 : Structure Wo (30 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	3.676	3.676	0	%100
2	M1	Z	-6.367	-6.367	0	%100
3	M2	X	4.532	4.532	0	%100
4	M2	Z	-7.849	-7.849	0	%100
5	M6	X	4.997	4.997	0	%100
6	M6	Z	-8.655	-8.655	0	%100
7	M10	X	1.59	1.59	0	%100
8	M10	Z	-2.753	-2.753	0	%100
9	MP1A	X	4.901	4.901	0	%100
10	MP1A	Z	-8.489	-8.489	0	%100
11	MP2A	X	4.901	4.901	0	%100
12	MP2A	Z	-8.489	-8.489	0	%100
13	M15	X	1.658	1.658	0	%100
14	M15	Z	-2.871	-2.871	0	%100
15	M16	X	6.104	6.104	0	%100
16	M16	Z	-10.573	-10.573	0	%100
17	OVP	X	3.481	3.481	0	%100
18	OVP	Z	-6.03	-6.03	0	%100
19	M16A	X	3.676	3.676	0	%100
20	M16A	Z	-6.367	-6.367	0	%100
21	M17A	X	4.532	4.532	0	%100
22	M17A	Z	-7.849	-7.849	0	%100
23	M19	X	4.997	4.997	0	%100
24	M19	Z	-8.655	-8.655	0	%100
25	M21	X	1.59	1.59	0	%100
26	M21	Z	-2.753	-2.753	0	%100
27	MP1C	X	4.901	4.901	0	%100
28	MP1C	Z	-8.489	-8.489	0	%100
29	MP2C	X	4.901	4.901	0	%100
30	MP2C	Z	-8.489	-8.489	0	%100
31	M28	X	6.104	6.104	0	%100
32	M28	Z	-10.573	-10.573	0	%100
33	M29	X	1.658	1.658	0	%100
34	M29	Z	-2.871	-2.871	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	0	0	0	%100
37	M32	X	0	0	0	%100
38	M32	Z	0	0	0	%100
39	M34	X	4.997	4.997	0	%100
40	M34	Z	-8.655	-8.655	0	%100
41	M36	X	6.358	6.358	0	%100
42	M36	Z	-11.012	-11.012	0	%100
43	MP1B	X	4.901	4.901	0	%100

Member Distributed Loads (BLC 42 : Structure Wo (30 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
44	MP1B	Z	-8.489	-8.489	0	%100
45	MP2B	X	4.901	4.901	0	%100
46	MP2B	Z	-8.489	-8.489	0	%100
47	M43	X	6.564	6.564	0	%100
48	M43	Z	-11.37	-11.37	0	%100
49	M44	X	6.564	6.564	0	%100
50	M44	Z	-11.37	-11.37	0	%100
51	M46	X	3.622	3.622	0	%100
52	M46	Z	-6.274	-6.274	0	%100
53	M47	X	0	0	0	%100
54	M47	Z	0	0	0	%100
55	M48	X	3.622	3.622	0	%100
56	M48	Z	-6.274	-6.274	0	%100

Member Distributed Loads (BLC 43 : Structure Wo (60 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	2.122	2.122	0	%100
2	M1	Z	-1.225	-1.225	0	%100
3	M2	X	2.616	2.616	0	%100
4	M2	Z	-1.511	-1.511	0	%100
5	M6	X	8.655	8.655	0	%100
6	M6	Z	-4.997	-4.997	0	%100
7	M10	X	8.259	8.259	0	%100
8	M10	Z	-4.769	-4.769	0	%100
9	MP1A	X	8.489	8.489	0	%100
10	MP1A	Z	-4.901	-4.901	0	%100
11	MP2A	X	8.489	8.489	0	%100
12	MP2A	Z	-4.901	-4.901	0	%100
13	M15	X	5.97	5.97	0	%100
14	M15	Z	-3.447	-3.447	0	%100
15	M16	X	13.671	13.671	0	%100
16	M16	Z	-7.893	-7.893	0	%100
17	OVP	X	6.03	6.03	0	%100
18	OVP	Z	-3.481	-3.481	0	%100
19	M16A	X	8.489	8.489	0	%100
20	M16A	Z	-4.901	-4.901	0	%100
21	M17A	X	10.466	10.466	0	%100
22	M17A	Z	-6.042	-6.042	0	%100
23	M19	X	8.655	8.655	0	%100
24	M19	Z	-4.997	-4.997	0	%100
25	M21	X	0	0	0	%100
26	M21	Z	0	0	0	%100
27	MP1C	X	8.489	8.489	0	%100
28	MP1C	Z	-4.901	-4.901	0	%100
29	MP2C	X	8.489	8.489	0	%100
30	MP2C	Z	-4.901	-4.901	0	%100
31	M28	X	5.173	5.173	0	%100
32	M28	Z	-2.987	-2.987	0	%100
33	M29	X	5.173	5.173	0	%100
34	M29	Z	-2.987	-2.987	0	%100
35	M31	X	2.122	2.122	0	%100
36	M31	Z	-1.225	-1.225	0	%100
37	M32	X	2.616	2.616	0	%100
38	M32	Z	-1.511	-1.511	0	%100
39	M34	X	8.655	8.655	0	%100
40	M34	Z	-4.997	-4.997	0	%100

Member Distributed Loads (BLC 43 : Structure Wo (60 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
41	M36	X	8.259	8.259	0	%100
42	M36	Z	-4.769	-4.769	0	%100
43	MP1B	X	8.489	8.489	0	%100
44	MP1B	Z	-4.901	-4.901	0	%100
45	MP2B	X	8.489	8.489	0	%100
46	MP2B	Z	-4.901	-4.901	0	%100
47	M43	X	13.671	13.671	0	%100
48	M43	Z	-7.893	-7.893	0	%100
49	M44	X	5.97	5.97	0	%100
50	M44	Z	-3.447	-3.447	0	%100
51	M46	X	8.365	8.365	0	%100
52	M46	Z	-4.83	-4.83	0	%100
53	M47	X	2.091	2.091	0	%100
54	M47	Z	-1.207	-1.207	0	%100
55	M48	X	2.091	2.091	0	%100
56	M48	Z	-1.207	-1.207	0	%100

Member Distributed Loads (BLC 44 : Structure Wo (90 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M6	X	9.994	9.994	0	%100
6	M6	Z	0	0	0	%100
7	M10	X	12.716	12.716	0	%100
8	M10	Z	0	0	0	%100
9	MP1A	X	9.802	9.802	0	%100
10	MP1A	Z	0	0	0	%100
11	MP2A	X	9.802	9.802	0	%100
12	MP2A	Z	0	0	0	%100
13	M15	X	13.129	13.129	0	%100
14	M15	Z	0	0	0	%100
15	M16	X	13.129	13.129	0	%100
16	M16	Z	0	0	0	%100
17	OVP	X	6.963	6.963	0	%100
18	OVP	Z	0	0	0	%100
19	M16A	X	7.352	7.352	0	%100
20	M16A	Z	0	0	0	%100
21	M17A	X	9.064	9.064	0	%100
22	M17A	Z	0	0	0	%100
23	M19	X	9.994	9.994	0	%100
24	M19	Z	0	0	0	%100
25	M21	X	3.179	3.179	0	%100
26	M21	Z	0	0	0	%100
27	MP1C	X	9.802	9.802	0	%100
28	MP1C	Z	0	0	0	%100
29	MP2C	X	9.802	9.802	0	%100
30	MP2C	Z	0	0	0	%100
31	M28	X	3.316	3.316	0	%100
32	M28	Z	0	0	0	%100
33	M29	X	12.209	12.209	0	%100
34	M29	Z	0	0	0	%100
35	M31	X	7.352	7.352	0	%100
36	M31	Z	0	0	0	%100
37	M32	X	9.064	9.064	0	%100

Member Distributed Loads (BLC 44 : Structure Wo (90 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
38	M32	Z	0	0	0	%100
39	M34	X	9.994	9.994	0	%100
40	M34	Z	0	0	0	%100
41	M36	X	3.179	3.179	0	%100
42	M36	Z	0	0	0	%100
43	MP1B	X	9.802	9.802	0	%100
44	MP1B	Z	0	0	0	%100
45	MP2B	X	9.802	9.802	0	%100
46	MP2B	Z	0	0	0	%100
47	M43	X	12.209	12.209	0	%100
48	M43	Z	0	0	0	%100
49	M44	X	3.316	3.316	0	%100
50	M44	Z	0	0	0	%100
51	M46	X	7.245	7.245	0	%100
52	M46	Z	0	0	0	%100
53	M47	X	7.245	7.245	0	%100
54	M47	Z	0	0	0	%100
55	M48	X	0	0	0	%100
56	M48	Z	0	0	0	%100

Member Distributed Loads (BLC 45 : Structure Wo (120 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	2.122	2.122	0	%100
2	M1	Z	1.225	1.225	0	%100
3	M2	X	2.616	2.616	0	%100
4	M2	Z	1.511	1.511	0	%100
5	M6	X	8.655	8.655	0	%100
6	M6	Z	4.997	4.997	0	%100
7	M10	X	8.259	8.259	0	%100
8	M10	Z	4.769	4.769	0	%100
9	MP1A	X	8.489	8.489	0	%100
10	MP1A	Z	4.901	4.901	0	%100
11	MP2A	X	8.489	8.489	0	%100
12	MP2A	Z	4.901	4.901	0	%100
13	M15	X	13.671	13.671	0	%100
14	M15	Z	7.893	7.893	0	%100
15	M16	X	5.97	5.97	0	%100
16	M16	Z	3.447	3.447	0	%100
17	OVP	X	6.03	6.03	0	%100
18	OVP	Z	3.481	3.481	0	%100
19	M16A	X	2.122	2.122	0	%100
20	M16A	Z	1.225	1.225	0	%100
21	M17A	X	2.616	2.616	0	%100
22	M17A	Z	1.511	1.511	0	%100
23	M19	X	8.655	8.655	0	%100
24	M19	Z	4.997	4.997	0	%100
25	M21	X	8.259	8.259	0	%100
26	M21	Z	4.769	4.769	0	%100
27	MP1C	X	8.489	8.489	0	%100
28	MP1C	Z	4.901	4.901	0	%100
29	MP2C	X	8.489	8.489	0	%100
30	MP2C	Z	4.901	4.901	0	%100
31	M28	X	5.97	5.97	0	%100
32	M28	Z	3.447	3.447	0	%100
33	M29	X	13.671	13.671	0	%100
34	M29	Z	7.893	7.893	0	%100

Member Distributed Loads (BLC 45 : Structure Wo (120 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
35	M31	X	8.489	8.489	0	%100
36	M31	Z	4.901	4.901	0	%100
37	M32	X	10.466	10.466	0	%100
38	M32	Z	6.042	6.042	0	%100
39	M34	X	8.655	8.655	0	%100
40	M34	Z	4.997	4.997	0	%100
41	M36	X	0	0	0	%100
42	M36	Z	0	0	0	%100
43	MP1B	X	8.489	8.489	0	%100
44	MP1B	Z	4.901	4.901	0	%100
45	MP2B	X	8.489	8.489	0	%100
46	MP2B	Z	4.901	4.901	0	%100
47	M43	X	5.173	5.173	0	%100
48	M43	Z	2.987	2.987	0	%100
49	M44	X	5.173	5.173	0	%100
50	M44	Z	2.987	2.987	0	%100
51	M46	X	2.091	2.091	0	%100
52	M46	Z	1.207	1.207	0	%100
53	M47	X	8.365	8.365	0	%100
54	M47	Z	4.83	4.83	0	%100
55	M48	X	2.091	2.091	0	%100
56	M48	Z	1.207	1.207	0	%100

Member Distributed Loads (BLC 46 : Structure Wo (150 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	3.676	3.676	0	%100
2	M1	Z	6.367	6.367	0	%100
3	M2	X	4.532	4.532	0	%100
4	M2	Z	7.849	7.849	0	%100
5	M6	X	4.997	4.997	0	%100
6	M6	Z	8.655	8.655	0	%100
7	M10	X	1.59	1.59	0	%100
8	M10	Z	2.753	2.753	0	%100
9	MP1A	X	4.901	4.901	0	%100
10	MP1A	Z	8.489	8.489	0	%100
11	MP2A	X	4.901	4.901	0	%100
12	MP2A	Z	8.489	8.489	0	%100
13	M15	X	6.104	6.104	0	%100
14	M15	Z	10.573	10.573	0	%100
15	M16	X	1.658	1.658	0	%100
16	M16	Z	2.871	2.871	0	%100
17	OVP	X	3.481	3.481	0	%100
18	OVP	Z	6.03	6.03	0	%100
19	M16A	X	0	0	0	%100
20	M16A	Z	0	0	0	%100
21	M17A	X	0	0	0	%100
22	M17A	Z	0	0	0	%100
23	M19	X	4.997	4.997	0	%100
24	M19	Z	8.655	8.655	0	%100
25	M21	X	6.358	6.358	0	%100
26	M21	Z	11.012	11.012	0	%100
27	MP1C	X	4.901	4.901	0	%100
28	MP1C	Z	8.489	8.489	0	%100
29	MP2C	X	4.901	4.901	0	%100
30	MP2C	Z	8.489	8.489	0	%100
31	M28	X	6.564	6.564	0	%100

Member Distributed Loads (BLC 46 : Structure Wo (150 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
32	M28	Z	11.37	11.37	0	%100
33	M29	X	6.564	6.564	0	%100
34	M29	Z	11.37	11.37	0	%100
35	M31	X	3.676	3.676	0	%100
36	M31	Z	6.367	6.367	0	%100
37	M32	X	4.532	4.532	0	%100
38	M32	Z	7.849	7.849	0	%100
39	M34	X	4.997	4.997	0	%100
40	M34	Z	8.655	8.655	0	%100
41	M36	X	1.59	1.59	0	%100
42	M36	Z	2.753	2.753	0	%100
43	MP1B	X	4.901	4.901	0	%100
44	MP1B	Z	8.489	8.489	0	%100
45	MP2B	X	4.901	4.901	0	%100
46	MP2B	Z	8.489	8.489	0	%100
47	M43	X	1.658	1.658	0	%100
48	M43	Z	2.871	2.871	0	%100
49	M44	X	6.104	6.104	0	%100
50	M44	Z	10.573	10.573	0	%100
51	M46	X	0	0	0	%100
52	M46	Z	0	0	0	%100
53	M47	X	3.622	3.622	0	%100
54	M47	Z	6.274	6.274	0	%100
55	M48	X	3.622	3.622	0	%100
56	M48	Z	6.274	6.274	0	%100

Member Distributed Loads (BLC 47 : Structure Wo (180 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	9.802	9.802	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	12.085	12.085	0	%100
5	M6	X	0	0	0	%100
6	M6	Z	9.994	9.994	0	%100
7	M10	X	0	0	0	%100
8	M10	Z	0	0	0	%100
9	MP1A	X	0	0	0	%100
10	MP1A	Z	9.802	9.802	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	9.802	9.802	0	%100
13	M15	X	0	0	0	%100
14	M15	Z	5.973	5.973	0	%100
15	M16	X	0	0	0	%100
16	M16	Z	5.973	5.973	0	%100
17	OVP	X	0	0	0	%100
18	OVP	Z	6.963	6.963	0	%100
19	M16A	X	0	0	0	%100
20	M16A	Z	2.451	2.451	0	%100
21	M17A	X	0	0	0	%100
22	M17A	Z	3.021	3.021	0	%100
23	M19	X	0	0	0	%100
24	M19	Z	9.994	9.994	0	%100
25	M21	X	0	0	0	%100
26	M21	Z	9.537	9.537	0	%100
27	MP1C	X	0	0	0	%100
28	MP1C	Z	9.802	9.802	0	%100

Member Distributed Loads (BLC 47 : Structure Wo (180 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
29	MP2C	X	0	0	0	%100
30	MP2C	Z	9.802	9.802	0	%100
31	M28	X	0	0	0	%100
32	M28	Z	15.786	15.786	0	%100
33	M29	X	0	0	0	%100
34	M29	Z	6.893	6.893	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	2.451	2.451	0	%100
37	M32	X	0	0	0	%100
38	M32	Z	3.021	3.021	0	%100
39	M34	X	0	0	0	%100
40	M34	Z	9.994	9.994	0	%100
41	M36	X	0	0	0	%100
42	M36	Z	9.537	9.537	0	%100
43	MP1B	X	0	0	0	%100
44	MP1B	Z	9.802	9.802	0	%100
45	MP2B	X	0	0	0	%100
46	MP2B	Z	9.802	9.802	0	%100
47	M43	X	0	0	0	%100
48	M43	Z	6.893	6.893	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	15.786	15.786	0	%100
51	M46	X	0	0	0	%100
52	M46	Z	2.415	2.415	0	%100
53	M47	X	0	0	0	%100
54	M47	Z	2.415	2.415	0	%100
55	M48	X	0	0	0	%100
56	M48	Z	9.66	9.66	0	%100

Member Distributed Loads (BLC 48 : Structure Wo (210 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-3.676	-3.676	0	%100
2	M1	Z	6.367	6.367	0	%100
3	M2	X	-4.532	-4.532	0	%100
4	M2	Z	7.849	7.849	0	%100
5	M6	X	-4.997	-4.997	0	%100
6	M6	Z	8.655	8.655	0	%100
7	M10	X	-1.59	-1.59	0	%100
8	M10	Z	2.753	2.753	0	%100
9	MP1A	X	-4.901	-4.901	0	%100
10	MP1A	Z	8.489	8.489	0	%100
11	MP2A	X	-4.901	-4.901	0	%100
12	MP2A	Z	8.489	8.489	0	%100
13	M15	X	-1.658	-1.658	0	%100
14	M15	Z	2.871	2.871	0	%100
15	M16	X	-6.104	-6.104	0	%100
16	M16	Z	10.573	10.573	0	%100
17	OVP	X	-3.481	-3.481	0	%100
18	OVP	Z	6.03	6.03	0	%100
19	M16A	X	-3.676	-3.676	0	%100
20	M16A	Z	6.367	6.367	0	%100
21	M17A	X	-4.532	-4.532	0	%100
22	M17A	Z	7.849	7.849	0	%100
23	M19	X	-4.997	-4.997	0	%100
24	M19	Z	8.655	8.655	0	%100
25	M21	X	-1.59	-1.59	0	%100

Member Distributed Loads (BLC 48 : Structure Wo (210 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
26	M21	Z	2.753	2.753	0	%100
27	MP1C	X	-4.901	-4.901	0	%100
28	MP1C	Z	8.489	8.489	0	%100
29	MP2C	X	-4.901	-4.901	0	%100
30	MP2C	Z	8.489	8.489	0	%100
31	M28	X	-6.104	-6.104	0	%100
32	M28	Z	10.573	10.573	0	%100
33	M29	X	-1.658	-1.658	0	%100
34	M29	Z	2.871	2.871	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	0	0	0	%100
37	M32	X	0	0	0	%100
38	M32	Z	0	0	0	%100
39	M34	X	-4.997	-4.997	0	%100
40	M34	Z	8.655	8.655	0	%100
41	M36	X	-6.358	-6.358	0	%100
42	M36	Z	11.012	11.012	0	%100
43	MP1B	X	-4.901	-4.901	0	%100
44	MP1B	Z	8.489	8.489	0	%100
45	MP2B	X	-4.901	-4.901	0	%100
46	MP2B	Z	8.489	8.489	0	%100
47	M43	X	-6.564	-6.564	0	%100
48	M43	Z	11.37	11.37	0	%100
49	M44	X	-6.564	-6.564	0	%100
50	M44	Z	11.37	11.37	0	%100
51	M46	X	-3.622	-3.622	0	%100
52	M46	Z	6.274	6.274	0	%100
53	M47	X	0	0	0	%100
54	M47	Z	0	0	0	%100
55	M48	X	-3.622	-3.622	0	%100
56	M48	Z	6.274	6.274	0	%100

Member Distributed Loads (BLC 49 : Structure Wo (240 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-2.122	-2.122	0	%100
2	M1	Z	1.225	1.225	0	%100
3	M2	X	-2.616	-2.616	0	%100
4	M2	Z	1.511	1.511	0	%100
5	M6	X	-8.655	-8.655	0	%100
6	M6	Z	4.997	4.997	0	%100
7	M10	X	-8.259	-8.259	0	%100
8	M10	Z	4.769	4.769	0	%100
9	MP1A	X	-8.489	-8.489	0	%100
10	MP1A	Z	4.901	4.901	0	%100
11	MP2A	X	-8.489	-8.489	0	%100
12	MP2A	Z	4.901	4.901	0	%100
13	M15	X	-5.97	-5.97	0	%100
14	M15	Z	3.447	3.447	0	%100
15	M16	X	-13.671	-13.671	0	%100
16	M16	Z	7.893	7.893	0	%100
17	OVP	X	-6.03	-6.03	0	%100
18	OVP	Z	3.481	3.481	0	%100
19	M16A	X	-8.489	-8.489	0	%100
20	M16A	Z	4.901	4.901	0	%100
21	M17A	X	-10.466	-10.466	0	%100
22	M17A	Z	6.042	6.042	0	%100

Member Distributed Loads (BLC 49 : Structure Wo (240 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
23	M19	X	-8.655	-8.655	0	%100
24	M19	Z	4.997	4.997	0	%100
25	M21	X	0	0	0	%100
26	M21	Z	0	0	0	%100
27	MP1C	X	-8.489	-8.489	0	%100
28	MP1C	Z	4.901	4.901	0	%100
29	MP2C	X	-8.489	-8.489	0	%100
30	MP2C	Z	4.901	4.901	0	%100
31	M28	X	-5.173	-5.173	0	%100
32	M28	Z	2.987	2.987	0	%100
33	M29	X	-5.173	-5.173	0	%100
34	M29	Z	2.987	2.987	0	%100
35	M31	X	-2.122	-2.122	0	%100
36	M31	Z	1.225	1.225	0	%100
37	M32	X	-2.616	-2.616	0	%100
38	M32	Z	1.511	1.511	0	%100
39	M34	X	-8.655	-8.655	0	%100
40	M34	Z	4.997	4.997	0	%100
41	M36	X	-8.259	-8.259	0	%100
42	M36	Z	4.769	4.769	0	%100
43	MP1B	X	-8.489	-8.489	0	%100
44	MP1B	Z	4.901	4.901	0	%100
45	MP2B	X	-8.489	-8.489	0	%100
46	MP2B	Z	4.901	4.901	0	%100
47	M43	X	-13.671	-13.671	0	%100
48	M43	Z	7.893	7.893	0	%100
49	M44	X	-5.97	-5.97	0	%100
50	M44	Z	3.447	3.447	0	%100
51	M46	X	-8.365	-8.365	0	%100
52	M46	Z	4.83	4.83	0	%100
53	M47	X	-2.091	-2.091	0	%100
54	M47	Z	1.207	1.207	0	%100
55	M48	X	-2.091	-2.091	0	%100
56	M48	Z	1.207	1.207	0	%100

Member Distributed Loads (BLC 50 : Structure Wo (270 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M6	X	-9.994	-9.994	0	%100
6	M6	Z	0	0	0	%100
7	M10	X	-12.716	-12.716	0	%100
8	M10	Z	0	0	0	%100
9	MP1A	X	-9.802	-9.802	0	%100
10	MP1A	Z	0	0	0	%100
11	MP2A	X	-9.802	-9.802	0	%100
12	MP2A	Z	0	0	0	%100
13	M15	X	-13.129	-13.129	0	%100
14	M15	Z	0	0	0	%100
15	M16	X	-13.129	-13.129	0	%100
16	M16	Z	0	0	0	%100
17	OVP	X	-6.963	-6.963	0	%100
18	OVP	Z	0	0	0	%100
19	M16A	X	-7.352	-7.352	0	%100

Member Distributed Loads (BLC 50 : Structure Wo (270 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
20	M16A	Z	0	0	0	%100
21	M17A	X	-9.064	-9.064	0	%100
22	M17A	Z	0	0	0	%100
23	M19	X	-9.994	-9.994	0	%100
24	M19	Z	0	0	0	%100
25	M21	X	-3.179	-3.179	0	%100
26	M21	Z	0	0	0	%100
27	MP1C	X	-9.802	-9.802	0	%100
28	MP1C	Z	0	0	0	%100
29	MP2C	X	-9.802	-9.802	0	%100
30	MP2C	Z	0	0	0	%100
31	M28	X	-3.316	-3.316	0	%100
32	M28	Z	0	0	0	%100
33	M29	X	-12.209	-12.209	0	%100
34	M29	Z	0	0	0	%100
35	M31	X	-7.352	-7.352	0	%100
36	M31	Z	0	0	0	%100
37	M32	X	-9.064	-9.064	0	%100
38	M32	Z	0	0	0	%100
39	M34	X	-9.994	-9.994	0	%100
40	M34	Z	0	0	0	%100
41	M36	X	-3.179	-3.179	0	%100
42	M36	Z	0	0	0	%100
43	MP1B	X	-9.802	-9.802	0	%100
44	MP1B	Z	0	0	0	%100
45	MP2B	X	-9.802	-9.802	0	%100
46	MP2B	Z	0	0	0	%100
47	M43	X	-12.209	-12.209	0	%100
48	M43	Z	0	0	0	%100
49	M44	X	-3.316	-3.316	0	%100
50	M44	Z	0	0	0	%100
51	M46	X	-7.245	-7.245	0	%100
52	M46	Z	0	0	0	%100
53	M47	X	-7.245	-7.245	0	%100
54	M47	Z	0	0	0	%100
55	M48	X	0	0	0	%100
56	M48	Z	0	0	0	%100

Member Distributed Loads (BLC 51 : Structure Wo (300 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-2.122	-2.122	0	%100
2	M1	Z	-1.225	-1.225	0	%100
3	M2	X	-2.616	-2.616	0	%100
4	M2	Z	-1.511	-1.511	0	%100
5	M6	X	-8.655	-8.655	0	%100
6	M6	Z	-4.997	-4.997	0	%100
7	M10	X	-8.259	-8.259	0	%100
8	M10	Z	-4.769	-4.769	0	%100
9	MP1A	X	-8.489	-8.489	0	%100
10	MP1A	Z	-4.901	-4.901	0	%100
11	MP2A	X	-8.489	-8.489	0	%100
12	MP2A	Z	-4.901	-4.901	0	%100
13	M15	X	-13.671	-13.671	0	%100
14	M15	Z	-7.893	-7.893	0	%100
15	M16	X	-5.97	-5.97	0	%100
16	M16	Z	-3.447	-3.447	0	%100

Member Distributed Loads (BLC 51 : Structure Wo (300 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
17	OVP	X	-6.03	-6.03	0	%100
18	OVP	Z	-3.481	-3.481	0	%100
19	M16A	X	-2.122	-2.122	0	%100
20	M16A	Z	-1.225	-1.225	0	%100
21	M17A	X	-2.616	-2.616	0	%100
22	M17A	Z	-1.511	-1.511	0	%100
23	M19	X	-8.655	-8.655	0	%100
24	M19	Z	-4.997	-4.997	0	%100
25	M21	X	-8.259	-8.259	0	%100
26	M21	Z	-4.769	-4.769	0	%100
27	MP1C	X	-8.489	-8.489	0	%100
28	MP1C	Z	-4.901	-4.901	0	%100
29	MP2C	X	-8.489	-8.489	0	%100
30	MP2C	Z	-4.901	-4.901	0	%100
31	M28	X	-5.97	-5.97	0	%100
32	M28	Z	-3.447	-3.447	0	%100
33	M29	X	-13.671	-13.671	0	%100
34	M29	Z	-7.893	-7.893	0	%100
35	M31	X	-8.489	-8.489	0	%100
36	M31	Z	-4.901	-4.901	0	%100
37	M32	X	-10.466	-10.466	0	%100
38	M32	Z	-6.042	-6.042	0	%100
39	M34	X	-8.655	-8.655	0	%100
40	M34	Z	-4.997	-4.997	0	%100
41	M36	X	0	0	0	%100
42	M36	Z	0	0	0	%100
43	MP1B	X	-8.489	-8.489	0	%100
44	MP1B	Z	-4.901	-4.901	0	%100
45	MP2B	X	-8.489	-8.489	0	%100
46	MP2B	Z	-4.901	-4.901	0	%100
47	M43	X	-5.173	-5.173	0	%100
48	M43	Z	-2.987	-2.987	0	%100
49	M44	X	-5.173	-5.173	0	%100
50	M44	Z	-2.987	-2.987	0	%100
51	M46	X	-2.091	-2.091	0	%100
52	M46	Z	-1.207	-1.207	0	%100
53	M47	X	-8.365	-8.365	0	%100
54	M47	Z	-4.83	-4.83	0	%100
55	M48	X	-2.091	-2.091	0	%100
56	M48	Z	-1.207	-1.207	0	%100

Member Distributed Loads (BLC 52 : Structure Wo (330 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-3.676	-3.676	0	%100
2	M1	Z	-6.367	-6.367	0	%100
3	M2	X	-4.532	-4.532	0	%100
4	M2	Z	-7.849	-7.849	0	%100
5	M6	X	-4.997	-4.997	0	%100
6	M6	Z	-8.655	-8.655	0	%100
7	M10	X	-1.59	-1.59	0	%100
8	M10	Z	-2.753	-2.753	0	%100
9	MP1A	X	-4.901	-4.901	0	%100
10	MP1A	Z	-8.489	-8.489	0	%100
11	MP2A	X	-4.901	-4.901	0	%100
12	MP2A	Z	-8.489	-8.489	0	%100
13	M15	X	-6.104	-6.104	0	%100

Member Distributed Loads (BLC 52 : Structure Wo (330 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
14	M15	Z	-10.573	-10.573	0	%100
15	M16	X	-1.658	-1.658	0	%100
16	M16	Z	-2.871	-2.871	0	%100
17	OVP	X	-3.481	-3.481	0	%100
18	OVP	Z	-6.03	-6.03	0	%100
19	M16A	X	0	0	0	%100
20	M16A	Z	0	0	0	%100
21	M17A	X	0	0	0	%100
22	M17A	Z	0	0	0	%100
23	M19	X	-4.997	-4.997	0	%100
24	M19	Z	-8.655	-8.655	0	%100
25	M21	X	-6.358	-6.358	0	%100
26	M21	Z	-11.012	-11.012	0	%100
27	MP1C	X	-4.901	-4.901	0	%100
28	MP1C	Z	-8.489	-8.489	0	%100
29	MP2C	X	-4.901	-4.901	0	%100
30	MP2C	Z	-8.489	-8.489	0	%100
31	M28	X	-6.564	-6.564	0	%100
32	M28	Z	-11.37	-11.37	0	%100
33	M29	X	-6.564	-6.564	0	%100
34	M29	Z	-11.37	-11.37	0	%100
35	M31	X	-3.676	-3.676	0	%100
36	M31	Z	-6.367	-6.367	0	%100
37	M32	X	-4.532	-4.532	0	%100
38	M32	Z	-7.849	-7.849	0	%100
39	M34	X	-4.997	-4.997	0	%100
40	M34	Z	-8.655	-8.655	0	%100
41	M36	X	-1.59	-1.59	0	%100
42	M36	Z	-2.753	-2.753	0	%100
43	MP1B	X	-4.901	-4.901	0	%100
44	MP1B	Z	-8.489	-8.489	0	%100
45	MP2B	X	-4.901	-4.901	0	%100
46	MP2B	Z	-8.489	-8.489	0	%100
47	M43	X	-1.658	-1.658	0	%100
48	M43	Z	-2.871	-2.871	0	%100
49	M44	X	-6.104	-6.104	0	%100
50	M44	Z	-10.573	-10.573	0	%100
51	M46	X	0	0	0	%100
52	M46	Z	0	0	0	%100
53	M47	X	-3.622	-3.622	0	%100
54	M47	Z	-6.274	-6.274	0	%100
55	M48	X	-3.622	-3.622	0	%100
56	M48	Z	-6.274	-6.274	0	%100

Member Distributed Loads (BLC 53 : Structure Wi (0 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-4.163	-4.163	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-4.261	-4.261	0	%100
5	M6	X	0	0	0	%100
6	M6	Z	-3.531	-3.531	0	%100
7	M10	X	0	0	0	%100
8	M10	Z	0	0	0	%100
9	MP1A	X	0	0	0	%100
10	MP1A	Z	-4.163	-4.163	0	%100

Member Distributed Loads (BLC 53 : Structure Wi (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
11	MP2A	X	0	0	0	%100
12	MP2A	Z	-4.163	-4.163	0	%100
13	M15	X	0	0	0	%100
14	M15	Z	-1.789	-1.789	0	%100
15	M16	X	0	0	0	%100
16	M16	Z	-1.789	-1.789	0	%100
17	OVP	X	0	0	0	%100
18	OVP	Z	-3.009	-3.009	0	%100
19	M16A	X	0	0	0	%100
20	M16A	Z	-1.041	-1.041	0	%100
21	M17A	X	0	0	0	%100
22	M17A	Z	-1.065	-1.065	0	%100
23	M19	X	0	0	0	%100
24	M19	Z	-3.531	-3.531	0	%100
25	M21	X	0	0	0	%100
26	M21	Z	-2.976	-2.976	0	%100
27	MP1C	X	0	0	0	%100
28	MP1C	Z	-4.163	-4.163	0	%100
29	MP2C	X	0	0	0	%100
30	MP2C	Z	-4.163	-4.163	0	%100
31	M28	X	0	0	0	%100
32	M28	Z	-4.729	-4.729	0	%100
33	M29	X	0	0	0	%100
34	M29	Z	-2.065	-2.065	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	-1.041	-1.041	0	%100
37	M32	X	0	0	0	%100
38	M32	Z	-1.065	-1.065	0	%100
39	M34	X	0	0	0	%100
40	M34	Z	-3.531	-3.531	0	%100
41	M36	X	0	0	0	%100
42	M36	Z	-2.976	-2.976	0	%100
43	MP1B	X	0	0	0	%100
44	MP1B	Z	-4.163	-4.163	0	%100
45	MP2B	X	0	0	0	%100
46	MP2B	Z	-4.163	-4.163	0	%100
47	M43	X	0	0	0	%100
48	M43	Z	-2.065	-2.065	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	-4.729	-4.729	0	%100
51	M46	X	0	0	0	%100
52	M46	Z	-.941	-.941	0	%100
53	M47	X	0	0	0	%100
54	M47	Z	-.941	-.941	0	%100
55	M48	X	0	0	0	%100
56	M48	Z	-3.762	-3.762	0	%100

Member Distributed Loads (BLC 54 : Structure Wi (30 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.561	1.561	0	%100
2	M1	Z	-2.704	-2.704	0	%100
3	M2	X	1.598	1.598	0	%100
4	M2	Z	-2.768	-2.768	0	%100
5	M6	X	1.766	1.766	0	%100
6	M6	Z	-3.058	-3.058	0	%100
7	M10	X	.496	.496	0	%100

Member Distributed Loads (BLC 54 : Structure Wi (30 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
8	M10	Z	-.859	-.859	0	%100
9	MP1A	X	2.082	2.082	0	%100
10	MP1A	Z	-3.606	-3.606	0	%100
11	MP2A	X	2.082	2.082	0	%100
12	MP2A	Z	-3.606	-3.606	0	%100
13	M15	X	.497	.497	0	%100
14	M15	Z	-.86	-.86	0	%100
15	M16	X	1.828	1.828	0	%100
16	M16	Z	-3.167	-3.167	0	%100
17	OVP	X	1.504	1.504	0	%100
18	OVP	Z	-2.605	-2.605	0	%100
19	M16A	X	1.561	1.561	0	%100
20	M16A	Z	-2.704	-2.704	0	%100
21	M17A	X	1.598	1.598	0	%100
22	M17A	Z	-2.768	-2.768	0	%100
23	M19	X	1.766	1.766	0	%100
24	M19	Z	-3.058	-3.058	0	%100
25	M21	X	.496	.496	0	%100
26	M21	Z	-.859	-.859	0	%100
27	MP1C	X	2.082	2.082	0	%100
28	MP1C	Z	-3.606	-3.606	0	%100
29	MP2C	X	2.082	2.082	0	%100
30	MP2C	Z	-3.606	-3.606	0	%100
31	M28	X	1.828	1.828	0	%100
32	M28	Z	-3.167	-3.167	0	%100
33	M29	X	.497	.497	0	%100
34	M29	Z	-.86	-.86	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	0	0	0	%100
37	M32	X	0	0	0	%100
38	M32	Z	0	0	0	%100
39	M34	X	1.766	1.766	0	%100
40	M34	Z	-3.058	-3.058	0	%100
41	M36	X	1.984	1.984	0	%100
42	M36	Z	-3.436	-3.436	0	%100
43	MP1B	X	2.082	2.082	0	%100
44	MP1B	Z	-3.606	-3.606	0	%100
45	MP2B	X	2.082	2.082	0	%100
46	MP2B	Z	-3.606	-3.606	0	%100
47	M43	X	1.966	1.966	0	%100
48	M43	Z	-3.406	-3.406	0	%100
49	M44	X	1.966	1.966	0	%100
50	M44	Z	-3.406	-3.406	0	%100
51	M46	X	1.411	1.411	0	%100
52	M46	Z	-2.444	-2.444	0	%100
53	M47	X	0	0	0	%100
54	M47	Z	0	0	0	%100
55	M48	X	1.411	1.411	0	%100
56	M48	Z	-2.444	-2.444	0	%100

Member Distributed Loads (BLC 55 : Structure Wi (60 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.901	.901	0	%100
2	M1	Z	-.52	-.52	0	%100
3	M2	X	.923	.923	0	%100
4	M2	Z	-.533	-.533	0	%100

Member Distributed Loads (BLC 55 : Structure Wi (60 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
5	M6	X	3.058	3.058	0	%100
6	M6	Z	-1.766	-1.766	0	%100
7	M10	X	2.577	2.577	0	%100
8	M10	Z	-1.488	-1.488	0	%100
9	MP1A	X	3.606	3.606	0	%100
10	MP1A	Z	-2.082	-2.082	0	%100
11	MP2A	X	3.606	3.606	0	%100
12	MP2A	Z	-2.082	-2.082	0	%100
13	M15	X	1.788	1.788	0	%100
14	M15	Z	-1.032	-1.032	0	%100
15	M16	X	4.095	4.095	0	%100
16	M16	Z	-2.364	-2.364	0	%100
17	OVP	X	2.605	2.605	0	%100
18	OVP	Z	-1.504	-1.504	0	%100
19	M16A	X	3.606	3.606	0	%100
20	M16A	Z	-2.082	-2.082	0	%100
21	M17A	X	3.69	3.69	0	%100
22	M17A	Z	-2.131	-2.131	0	%100
23	M19	X	3.058	3.058	0	%100
24	M19	Z	-1.766	-1.766	0	%100
25	M21	X	0	0	0	%100
26	M21	Z	0	0	0	%100
27	MP1C	X	3.606	3.606	0	%100
28	MP1C	Z	-2.082	-2.082	0	%100
29	MP2C	X	3.606	3.606	0	%100
30	MP2C	Z	-2.082	-2.082	0	%100
31	M28	X	1.549	1.549	0	%100
32	M28	Z	-.895	-.895	0	%100
33	M29	X	1.549	1.549	0	%100
34	M29	Z	-.895	-.895	0	%100
35	M31	X	.901	.901	0	%100
36	M31	Z	-.52	-.52	0	%100
37	M32	X	.923	.923	0	%100
38	M32	Z	-.533	-.533	0	%100
39	M34	X	3.058	3.058	0	%100
40	M34	Z	-1.766	-1.766	0	%100
41	M36	X	2.577	2.577	0	%100
42	M36	Z	-1.488	-1.488	0	%100
43	MP1B	X	3.606	3.606	0	%100
44	MP1B	Z	-2.082	-2.082	0	%100
45	MP2B	X	3.606	3.606	0	%100
46	MP2B	Z	-2.082	-2.082	0	%100
47	M43	X	4.095	4.095	0	%100
48	M43	Z	-2.364	-2.364	0	%100
49	M44	X	1.788	1.788	0	%100
50	M44	Z	-1.032	-1.032	0	%100
51	M46	X	3.258	3.258	0	%100
52	M46	Z	-1.881	-1.881	0	%100
53	M47	X	.815	.815	0	%100
54	M47	Z	-.47	-.47	0	%100
55	M48	X	.815	.815	0	%100
56	M48	Z	-.47	-.47	0	%100

Member Distributed Loads (BLC 56 : Structure Wi (90 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100

Member Distributed Loads (BLC 56 : Structure Wi (90 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M6	X	3.531	3.531	0	%100
6	M6	Z	0	0	0	%100
7	M10	X	3.968	3.968	0	%100
8	M10	Z	0	0	0	%100
9	MP1A	X	4.163	4.163	0	%100
10	MP1A	Z	0	0	0	%100
11	MP2A	X	4.163	4.163	0	%100
12	MP2A	Z	0	0	0	%100
13	M15	X	3.933	3.933	0	%100
14	M15	Z	0	0	0	%100
15	M16	X	3.933	3.933	0	%100
16	M16	Z	0	0	0	%100
17	OVP	X	3.009	3.009	0	%100
18	OVP	Z	0	0	0	%100
19	M16A	X	3.123	3.123	0	%100
20	M16A	Z	0	0	0	%100
21	M17A	X	3.196	3.196	0	%100
22	M17A	Z	0	0	0	%100
23	M19	X	3.531	3.531	0	%100
24	M19	Z	0	0	0	%100
25	M21	X	.992	.992	0	%100
26	M21	Z	0	0	0	%100
27	MP1C	X	4.163	4.163	0	%100
28	MP1C	Z	0	0	0	%100
29	MP2C	X	4.163	4.163	0	%100
30	MP2C	Z	0	0	0	%100
31	M28	X	.993	.993	0	%100
32	M28	Z	0	0	0	%100
33	M29	X	3.657	3.657	0	%100
34	M29	Z	0	0	0	%100
35	M31	X	3.123	3.123	0	%100
36	M31	Z	0	0	0	%100
37	M32	X	3.196	3.196	0	%100
38	M32	Z	0	0	0	%100
39	M34	X	3.531	3.531	0	%100
40	M34	Z	0	0	0	%100
41	M36	X	.992	.992	0	%100
42	M36	Z	0	0	0	%100
43	MP1B	X	4.163	4.163	0	%100
44	MP1B	Z	0	0	0	%100
45	MP2B	X	4.163	4.163	0	%100
46	MP2B	Z	0	0	0	%100
47	M43	X	3.657	3.657	0	%100
48	M43	Z	0	0	0	%100
49	M44	X	.993	.993	0	%100
50	M44	Z	0	0	0	%100
51	M46	X	2.822	2.822	0	%100
52	M46	Z	0	0	0	%100
53	M47	X	2.822	2.822	0	%100
54	M47	Z	0	0	0	%100
55	M48	X	0	0	0	%100
56	M48	Z	0	0	0	%100

Member Distributed Loads (BLC 57 : Structure Wi (120 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.901	.901	0	%100
2	M1	Z	.52	.52	0	%100
3	M2	X	.923	.923	0	%100
4	M2	Z	.533	.533	0	%100
5	M6	X	3.058	3.058	0	%100
6	M6	Z	1.766	1.766	0	%100
7	M10	X	2.577	2.577	0	%100
8	M10	Z	1.488	1.488	0	%100
9	MP1A	X	3.606	3.606	0	%100
10	MP1A	Z	2.082	2.082	0	%100
11	MP2A	X	3.606	3.606	0	%100
12	MP2A	Z	2.082	2.082	0	%100
13	M15	X	4.095	4.095	0	%100
14	M15	Z	2.364	2.364	0	%100
15	M16	X	1.788	1.788	0	%100
16	M16	Z	1.032	1.032	0	%100
17	OVP	X	2.605	2.605	0	%100
18	OVP	Z	1.504	1.504	0	%100
19	M16A	X	.901	.901	0	%100
20	M16A	Z	.52	.52	0	%100
21	M17A	X	.923	.923	0	%100
22	M17A	Z	.533	.533	0	%100
23	M19	X	3.058	3.058	0	%100
24	M19	Z	1.766	1.766	0	%100
25	M21	X	2.577	2.577	0	%100
26	M21	Z	1.488	1.488	0	%100
27	MP1C	X	3.606	3.606	0	%100
28	MP1C	Z	2.082	2.082	0	%100
29	MP2C	X	3.606	3.606	0	%100
30	MP2C	Z	2.082	2.082	0	%100
31	M28	X	1.788	1.788	0	%100
32	M28	Z	1.032	1.032	0	%100
33	M29	X	4.095	4.095	0	%100
34	M29	Z	2.364	2.364	0	%100
35	M31	X	3.606	3.606	0	%100
36	M31	Z	2.082	2.082	0	%100
37	M32	X	3.69	3.69	0	%100
38	M32	Z	2.131	2.131	0	%100
39	M34	X	3.058	3.058	0	%100
40	M34	Z	1.766	1.766	0	%100
41	M36	X	0	0	0	%100
42	M36	Z	0	0	0	%100
43	MP1B	X	3.606	3.606	0	%100
44	MP1B	Z	2.082	2.082	0	%100
45	MP2B	X	3.606	3.606	0	%100
46	MP2B	Z	2.082	2.082	0	%100
47	M43	X	1.549	1.549	0	%100
48	M43	Z	.895	.895	0	%100
49	M44	X	1.549	1.549	0	%100
50	M44	Z	.895	.895	0	%100
51	M46	X	.815	.815	0	%100
52	M46	Z	.47	.47	0	%100
53	M47	X	3.258	3.258	0	%100
54	M47	Z	1.881	1.881	0	%100
55	M48	X	.815	.815	0	%100
56	M48	Z	.47	.47	0	%100

Member Distributed Loads (BLC 58 : Structure Wi (150 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.561	1.561	0	%100
2	M1	Z	2.704	2.704	0	%100
3	M2	X	1.598	1.598	0	%100
4	M2	Z	2.768	2.768	0	%100
5	M6	X	1.766	1.766	0	%100
6	M6	Z	3.058	3.058	0	%100
7	M10	X	.496	.496	0	%100
8	M10	Z	.859	.859	0	%100
9	MP1A	X	2.082	2.082	0	%100
10	MP1A	Z	3.606	3.606	0	%100
11	MP2A	X	2.082	2.082	0	%100
12	MP2A	Z	3.606	3.606	0	%100
13	M15	X	1.828	1.828	0	%100
14	M15	Z	3.167	3.167	0	%100
15	M16	X	.497	.497	0	%100
16	M16	Z	.86	.86	0	%100
17	OVP	X	1.504	1.504	0	%100
18	OVP	Z	2.605	2.605	0	%100
19	M16A	X	0	0	0	%100
20	M16A	Z	0	0	0	%100
21	M17A	X	0	0	0	%100
22	M17A	Z	0	0	0	%100
23	M19	X	1.766	1.766	0	%100
24	M19	Z	3.058	3.058	0	%100
25	M21	X	1.984	1.984	0	%100
26	M21	Z	3.436	3.436	0	%100
27	MP1C	X	2.082	2.082	0	%100
28	MP1C	Z	3.606	3.606	0	%100
29	MP2C	X	2.082	2.082	0	%100
30	MP2C	Z	3.606	3.606	0	%100
31	M28	X	1.966	1.966	0	%100
32	M28	Z	3.406	3.406	0	%100
33	M29	X	1.966	1.966	0	%100
34	M29	Z	3.406	3.406	0	%100
35	M31	X	1.561	1.561	0	%100
36	M31	Z	2.704	2.704	0	%100
37	M32	X	1.598	1.598	0	%100
38	M32	Z	2.768	2.768	0	%100
39	M34	X	1.766	1.766	0	%100
40	M34	Z	3.058	3.058	0	%100
41	M36	X	.496	.496	0	%100
42	M36	Z	.859	.859	0	%100
43	MP1B	X	2.082	2.082	0	%100
44	MP1B	Z	3.606	3.606	0	%100
45	MP2B	X	2.082	2.082	0	%100
46	MP2B	Z	3.606	3.606	0	%100
47	M43	X	.497	.497	0	%100
48	M43	Z	.86	.86	0	%100
49	M44	X	1.828	1.828	0	%100
50	M44	Z	3.167	3.167	0	%100
51	M46	X	0	0	0	%100
52	M46	Z	0	0	0	%100
53	M47	X	1.411	1.411	0	%100
54	M47	Z	2.444	2.444	0	%100
55	M48	X	1.411	1.411	0	%100
56	M48	Z	2.444	2.444	0	%100

Member Distributed Loads (BLC 59 : Structure Wi (180 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	4.163	4.163	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	4.261	4.261	0	%100
5	M6	X	0	0	0	%100
6	M6	Z	3.531	3.531	0	%100
7	M10	X	0	0	0	%100
8	M10	Z	0	0	0	%100
9	MP1A	X	0	0	0	%100
10	MP1A	Z	4.163	4.163	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	4.163	4.163	0	%100
13	M15	X	0	0	0	%100
14	M15	Z	1.789	1.789	0	%100
15	M16	X	0	0	0	%100
16	M16	Z	1.789	1.789	0	%100
17	OVP	X	0	0	0	%100
18	OVP	Z	3.009	3.009	0	%100
19	M16A	X	0	0	0	%100
20	M16A	Z	1.041	1.041	0	%100
21	M17A	X	0	0	0	%100
22	M17A	Z	1.065	1.065	0	%100
23	M19	X	0	0	0	%100
24	M19	Z	3.531	3.531	0	%100
25	M21	X	0	0	0	%100
26	M21	Z	2.976	2.976	0	%100
27	MP1C	X	0	0	0	%100
28	MP1C	Z	4.163	4.163	0	%100
29	MP2C	X	0	0	0	%100
30	MP2C	Z	4.163	4.163	0	%100
31	M28	X	0	0	0	%100
32	M28	Z	4.729	4.729	0	%100
33	M29	X	0	0	0	%100
34	M29	Z	2.065	2.065	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	1.041	1.041	0	%100
37	M32	X	0	0	0	%100
38	M32	Z	1.065	1.065	0	%100
39	M34	X	0	0	0	%100
40	M34	Z	3.531	3.531	0	%100
41	M36	X	0	0	0	%100
42	M36	Z	2.976	2.976	0	%100
43	MP1B	X	0	0	0	%100
44	MP1B	Z	4.163	4.163	0	%100
45	MP2B	X	0	0	0	%100
46	MP2B	Z	4.163	4.163	0	%100
47	M43	X	0	0	0	%100
48	M43	Z	2.065	2.065	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	4.729	4.729	0	%100
51	M46	X	0	0	0	%100
52	M46	Z	.941	.941	0	%100
53	M47	X	0	0	0	%100
54	M47	Z	.941	.941	0	%100
55	M48	X	0	0	0	%100
56	M48	Z	3.762	3.762	0	%100

Member Distributed Loads (BLC 60 : Structure Wi (210 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.561	-1.561	0	%100
2	M1	Z	2.704	2.704	0	%100
3	M2	X	-1.598	-1.598	0	%100
4	M2	Z	2.768	2.768	0	%100
5	M6	X	-1.766	-1.766	0	%100
6	M6	Z	3.058	3.058	0	%100
7	M10	X	-.496	-.496	0	%100
8	M10	Z	.859	.859	0	%100
9	MP1A	X	-2.082	-2.082	0	%100
10	MP1A	Z	3.606	3.606	0	%100
11	MP2A	X	-2.082	-2.082	0	%100
12	MP2A	Z	3.606	3.606	0	%100
13	M15	X	-.497	-.497	0	%100
14	M15	Z	.86	.86	0	%100
15	M16	X	-1.828	-1.828	0	%100
16	M16	Z	3.167	3.167	0	%100
17	OVP	X	-1.504	-1.504	0	%100
18	OVP	Z	2.605	2.605	0	%100
19	M16A	X	-1.561	-1.561	0	%100
20	M16A	Z	2.704	2.704	0	%100
21	M17A	X	-1.598	-1.598	0	%100
22	M17A	Z	2.768	2.768	0	%100
23	M19	X	-1.766	-1.766	0	%100
24	M19	Z	3.058	3.058	0	%100
25	M21	X	-.496	-.496	0	%100
26	M21	Z	.859	.859	0	%100
27	MP1C	X	-2.082	-2.082	0	%100
28	MP1C	Z	3.606	3.606	0	%100
29	MP2C	X	-2.082	-2.082	0	%100
30	MP2C	Z	3.606	3.606	0	%100
31	M28	X	-1.828	-1.828	0	%100
32	M28	Z	3.167	3.167	0	%100
33	M29	X	-.497	-.497	0	%100
34	M29	Z	.86	.86	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	0	0	0	%100
37	M32	X	0	0	0	%100
38	M32	Z	0	0	0	%100
39	M34	X	-1.766	-1.766	0	%100
40	M34	Z	3.058	3.058	0	%100
41	M36	X	-1.984	-1.984	0	%100
42	M36	Z	3.436	3.436	0	%100
43	MP1B	X	-2.082	-2.082	0	%100
44	MP1B	Z	3.606	3.606	0	%100
45	MP2B	X	-2.082	-2.082	0	%100
46	MP2B	Z	3.606	3.606	0	%100
47	M43	X	-1.966	-1.966	0	%100
48	M43	Z	3.406	3.406	0	%100
49	M44	X	-1.966	-1.966	0	%100
50	M44	Z	3.406	3.406	0	%100
51	M46	X	-1.411	-1.411	0	%100
52	M46	Z	2.444	2.444	0	%100
53	M47	X	0	0	0	%100
54	M47	Z	0	0	0	%100
55	M48	X	-1.411	-1.411	0	%100
56	M48	Z	2.444	2.444	0	%100

Member Distributed Loads (BLC 61 : Structure Wi (240 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.901	-.901	0	%100
2	M1	Z	.52	.52	0	%100
3	M2	X	-.923	-.923	0	%100
4	M2	Z	.533	.533	0	%100
5	M6	X	-3.058	-3.058	0	%100
6	M6	Z	1.766	1.766	0	%100
7	M10	X	-2.577	-2.577	0	%100
8	M10	Z	1.488	1.488	0	%100
9	MP1A	X	-3.606	-3.606	0	%100
10	MP1A	Z	2.082	2.082	0	%100
11	MP2A	X	-3.606	-3.606	0	%100
12	MP2A	Z	2.082	2.082	0	%100
13	M15	X	-1.788	-1.788	0	%100
14	M15	Z	1.032	1.032	0	%100
15	M16	X	-4.095	-4.095	0	%100
16	M16	Z	2.364	2.364	0	%100
17	OVP	X	-2.605	-2.605	0	%100
18	OVP	Z	1.504	1.504	0	%100
19	M16A	X	-3.606	-3.606	0	%100
20	M16A	Z	2.082	2.082	0	%100
21	M17A	X	-3.69	-3.69	0	%100
22	M17A	Z	2.131	2.131	0	%100
23	M19	X	-3.058	-3.058	0	%100
24	M19	Z	1.766	1.766	0	%100
25	M21	X	0	0	0	%100
26	M21	Z	0	0	0	%100
27	MP1C	X	-3.606	-3.606	0	%100
28	MP1C	Z	2.082	2.082	0	%100
29	MP2C	X	-3.606	-3.606	0	%100
30	MP2C	Z	2.082	2.082	0	%100
31	M28	X	-1.549	-1.549	0	%100
32	M28	Z	.895	.895	0	%100
33	M29	X	-1.549	-1.549	0	%100
34	M29	Z	.895	.895	0	%100
35	M31	X	-.901	-.901	0	%100
36	M31	Z	.52	.52	0	%100
37	M32	X	-.923	-.923	0	%100
38	M32	Z	.533	.533	0	%100
39	M34	X	-3.058	-3.058	0	%100
40	M34	Z	1.766	1.766	0	%100
41	M36	X	-2.577	-2.577	0	%100
42	M36	Z	1.488	1.488	0	%100
43	MP1B	X	-3.606	-3.606	0	%100
44	MP1B	Z	2.082	2.082	0	%100
45	MP2B	X	-3.606	-3.606	0	%100
46	MP2B	Z	2.082	2.082	0	%100
47	M43	X	-4.095	-4.095	0	%100
48	M43	Z	2.364	2.364	0	%100
49	M44	X	-1.788	-1.788	0	%100
50	M44	Z	1.032	1.032	0	%100
51	M46	X	-3.258	-3.258	0	%100
52	M46	Z	1.881	1.881	0	%100
53	M47	X	-.815	-.815	0	%100
54	M47	Z	.47	.47	0	%100
55	M48	X	-.815	-.815	0	%100
56	M48	Z	.47	.47	0	%100

Member Distributed Loads (BLC 62 : Structure Wi (270 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M6	X	-3.531	-3.531	0	%100
6	M6	Z	0	0	0	%100
7	M10	X	-3.968	-3.968	0	%100
8	M10	Z	0	0	0	%100
9	MP1A	X	-4.163	-4.163	0	%100
10	MP1A	Z	0	0	0	%100
11	MP2A	X	-4.163	-4.163	0	%100
12	MP2A	Z	0	0	0	%100
13	M15	X	-3.933	-3.933	0	%100
14	M15	Z	0	0	0	%100
15	M16	X	-3.933	-3.933	0	%100
16	M16	Z	0	0	0	%100
17	OVP	X	-3.009	-3.009	0	%100
18	OVP	Z	0	0	0	%100
19	M16A	X	-3.123	-3.123	0	%100
20	M16A	Z	0	0	0	%100
21	M17A	X	-3.196	-3.196	0	%100
22	M17A	Z	0	0	0	%100
23	M19	X	-3.531	-3.531	0	%100
24	M19	Z	0	0	0	%100
25	M21	X	-.992	-.992	0	%100
26	M21	Z	0	0	0	%100
27	MP1C	X	-4.163	-4.163	0	%100
28	MP1C	Z	0	0	0	%100
29	MP2C	X	-4.163	-4.163	0	%100
30	MP2C	Z	0	0	0	%100
31	M28	X	-.993	-.993	0	%100
32	M28	Z	0	0	0	%100
33	M29	X	-3.657	-3.657	0	%100
34	M29	Z	0	0	0	%100
35	M31	X	-3.123	-3.123	0	%100
36	M31	Z	0	0	0	%100
37	M32	X	-3.196	-3.196	0	%100
38	M32	Z	0	0	0	%100
39	M34	X	-3.531	-3.531	0	%100
40	M34	Z	0	0	0	%100
41	M36	X	-.992	-.992	0	%100
42	M36	Z	0	0	0	%100
43	MP1B	X	-4.163	-4.163	0	%100
44	MP1B	Z	0	0	0	%100
45	MP2B	X	-4.163	-4.163	0	%100
46	MP2B	Z	0	0	0	%100
47	M43	X	-3.657	-3.657	0	%100
48	M43	Z	0	0	0	%100
49	M44	X	-.993	-.993	0	%100
50	M44	Z	0	0	0	%100
51	M46	X	-2.822	-2.822	0	%100
52	M46	Z	0	0	0	%100
53	M47	X	-2.822	-2.822	0	%100
54	M47	Z	0	0	0	%100
55	M48	X	0	0	0	%100
56	M48	Z	0	0	0	%100

Member Distributed Loads (BLC 63 : Structure Wi (300 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.901	-.901	0	%100
2	M1	Z	-.52	-.52	0	%100
3	M2	X	-.923	-.923	0	%100
4	M2	Z	-.533	-.533	0	%100
5	M6	X	-3.058	-3.058	0	%100
6	M6	Z	-1.766	-1.766	0	%100
7	M10	X	-2.577	-2.577	0	%100
8	M10	Z	-1.488	-1.488	0	%100
9	MP1A	X	-3.606	-3.606	0	%100
10	MP1A	Z	-2.082	-2.082	0	%100
11	MP2A	X	-3.606	-3.606	0	%100
12	MP2A	Z	-2.082	-2.082	0	%100
13	M15	X	-4.095	-4.095	0	%100
14	M15	Z	-2.364	-2.364	0	%100
15	M16	X	-1.788	-1.788	0	%100
16	M16	Z	-1.032	-1.032	0	%100
17	OVP	X	-2.605	-2.605	0	%100
18	OVP	Z	-1.504	-1.504	0	%100
19	M16A	X	-.901	-.901	0	%100
20	M16A	Z	-.52	-.52	0	%100
21	M17A	X	-.923	-.923	0	%100
22	M17A	Z	-.533	-.533	0	%100
23	M19	X	-3.058	-3.058	0	%100
24	M19	Z	-1.766	-1.766	0	%100
25	M21	X	-2.577	-2.577	0	%100
26	M21	Z	-1.488	-1.488	0	%100
27	MP1C	X	-3.606	-3.606	0	%100
28	MP1C	Z	-2.082	-2.082	0	%100
29	MP2C	X	-3.606	-3.606	0	%100
30	MP2C	Z	-2.082	-2.082	0	%100
31	M28	X	-1.788	-1.788	0	%100
32	M28	Z	-1.032	-1.032	0	%100
33	M29	X	-4.095	-4.095	0	%100
34	M29	Z	-2.364	-2.364	0	%100
35	M31	X	-3.606	-3.606	0	%100
36	M31	Z	-2.082	-2.082	0	%100
37	M32	X	-3.69	-3.69	0	%100
38	M32	Z	-2.131	-2.131	0	%100
39	M34	X	-3.058	-3.058	0	%100
40	M34	Z	-1.766	-1.766	0	%100
41	M36	X	0	0	0	%100
42	M36	Z	0	0	0	%100
43	MP1B	X	-3.606	-3.606	0	%100
44	MP1B	Z	-2.082	-2.082	0	%100
45	MP2B	X	-3.606	-3.606	0	%100
46	MP2B	Z	-2.082	-2.082	0	%100
47	M43	X	-1.549	-1.549	0	%100
48	M43	Z	-.895	-.895	0	%100
49	M44	X	-1.549	-1.549	0	%100
50	M44	Z	-.895	-.895	0	%100
51	M46	X	-.815	-.815	0	%100
52	M46	Z	-.47	-.47	0	%100
53	M47	X	-3.258	-3.258	0	%100
54	M47	Z	-1.881	-1.881	0	%100
55	M48	X	-.815	-.815	0	%100
56	M48	Z	-.47	-.47	0	%100

Member Distributed Loads (BLC 64 : Structure Wi (330 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.561	-1.561	0	%100
2	M1	Z	-2.704	-2.704	0	%100
3	M2	X	-1.598	-1.598	0	%100
4	M2	Z	-2.768	-2.768	0	%100
5	M6	X	-1.766	-1.766	0	%100
6	M6	Z	-3.058	-3.058	0	%100
7	M10	X	-.496	-.496	0	%100
8	M10	Z	-.859	-.859	0	%100
9	MP1A	X	-2.082	-2.082	0	%100
10	MP1A	Z	-3.606	-3.606	0	%100
11	MP2A	X	-2.082	-2.082	0	%100
12	MP2A	Z	-3.606	-3.606	0	%100
13	M15	X	-1.828	-1.828	0	%100
14	M15	Z	-3.167	-3.167	0	%100
15	M16	X	-.497	-.497	0	%100
16	M16	Z	-.86	-.86	0	%100
17	OVP	X	-1.504	-1.504	0	%100
18	OVP	Z	-2.605	-2.605	0	%100
19	M16A	X	0	0	0	%100
20	M16A	Z	0	0	0	%100
21	M17A	X	0	0	0	%100
22	M17A	Z	0	0	0	%100
23	M19	X	-1.766	-1.766	0	%100
24	M19	Z	-3.058	-3.058	0	%100
25	M21	X	-1.984	-1.984	0	%100
26	M21	Z	-3.436	-3.436	0	%100
27	MP1C	X	-2.082	-2.082	0	%100
28	MP1C	Z	-3.606	-3.606	0	%100
29	MP2C	X	-2.082	-2.082	0	%100
30	MP2C	Z	-3.606	-3.606	0	%100
31	M28	X	-1.966	-1.966	0	%100
32	M28	Z	-3.406	-3.406	0	%100
33	M29	X	-1.966	-1.966	0	%100
34	M29	Z	-3.406	-3.406	0	%100
35	M31	X	-1.561	-1.561	0	%100
36	M31	Z	-2.704	-2.704	0	%100
37	M32	X	-1.598	-1.598	0	%100
38	M32	Z	-2.768	-2.768	0	%100
39	M34	X	-1.766	-1.766	0	%100
40	M34	Z	-3.058	-3.058	0	%100
41	M36	X	-.496	-.496	0	%100
42	M36	Z	-.859	-.859	0	%100
43	MP1B	X	-2.082	-2.082	0	%100
44	MP1B	Z	-3.606	-3.606	0	%100
45	MP2B	X	-2.082	-2.082	0	%100
46	MP2B	Z	-3.606	-3.606	0	%100
47	M43	X	-.497	-.497	0	%100
48	M43	Z	-.86	-.86	0	%100
49	M44	X	-1.828	-1.828	0	%100
50	M44	Z	-3.167	-3.167	0	%100
51	M46	X	0	0	0	%100
52	M46	Z	0	0	0	%100
53	M47	X	-1.411	-1.411	0	%100
54	M47	Z	-2.444	-2.444	0	%100
55	M48	X	-1.411	-1.411	0	%100
56	M48	Z	-2.444	-2.444	0	%100

Member Distributed Loads (BLC 65 : Structure Wm (0 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-.613	-.613	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-.755	-.755	0	%100
5	M6	X	0	0	0	%100
6	M6	Z	-.625	-.625	0	%100
7	M10	X	0	0	0	%100
8	M10	Z	0	0	0	%100
9	MP1A	X	0	0	0	%100
10	MP1A	Z	-.613	-.613	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	-.613	-.613	0	%100
13	M15	X	0	0	0	%100
14	M15	Z	-.373	-.373	0	%100
15	M16	X	0	0	0	%100
16	M16	Z	-.373	-.373	0	%100
17	OVP	X	0	0	0	%100
18	OVP	Z	-.435	-.435	0	%100
19	M16A	X	0	0	0	%100
20	M16A	Z	-.153	-.153	0	%100
21	M17A	X	0	0	0	%100
22	M17A	Z	-.189	-.189	0	%100
23	M19	X	0	0	0	%100
24	M19	Z	-.625	-.625	0	%100
25	M21	X	0	0	0	%100
26	M21	Z	-.596	-.596	0	%100
27	MP1C	X	0	0	0	%100
28	MP1C	Z	-.613	-.613	0	%100
29	MP2C	X	0	0	0	%100
30	MP2C	Z	-.613	-.613	0	%100
31	M28	X	0	0	0	%100
32	M28	Z	-.987	-.987	0	%100
33	M29	X	0	0	0	%100
34	M29	Z	-.431	-.431	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	-.153	-.153	0	%100
37	M32	X	0	0	0	%100
38	M32	Z	-.189	-.189	0	%100
39	M34	X	0	0	0	%100
40	M34	Z	-.625	-.625	0	%100
41	M36	X	0	0	0	%100
42	M36	Z	-.596	-.596	0	%100
43	MP1B	X	0	0	0	%100
44	MP1B	Z	-.613	-.613	0	%100
45	MP2B	X	0	0	0	%100
46	MP2B	Z	-.613	-.613	0	%100
47	M43	X	0	0	0	%100
48	M43	Z	-.431	-.431	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	-.987	-.987	0	%100
51	M46	X	0	0	0	%100
52	M46	Z	-.151	-.151	0	%100
53	M47	X	0	0	0	%100
54	M47	Z	-.151	-.151	0	%100
55	M48	X	0	0	0	%100
56	M48	Z	-.604	-.604	0	%100

Member Distributed Loads (BLC 66 : Structure Wm (30 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.23	.23	0	%100
2	M1	Z	-.398	-.398	0	%100
3	M2	X	.283	.283	0	%100
4	M2	Z	-.491	-.491	0	%100
5	M6	X	.312	.312	0	%100
6	M6	Z	-.541	-.541	0	%100
7	M10	X	.099	.099	0	%100
8	M10	Z	-.172	-.172	0	%100
9	MP1A	X	.306	.306	0	%100
10	MP1A	Z	-.531	-.531	0	%100
11	MP2A	X	.306	.306	0	%100
12	MP2A	Z	-.531	-.531	0	%100
13	M15	X	.104	.104	0	%100
14	M15	Z	-.179	-.179	0	%100
15	M16	X	.382	.382	0	%100
16	M16	Z	-.661	-.661	0	%100
17	OVP	X	.218	.218	0	%100
18	OVP	Z	-.377	-.377	0	%100
19	M16A	X	.23	.23	0	%100
20	M16A	Z	-.398	-.398	0	%100
21	M17A	X	.283	.283	0	%100
22	M17A	Z	-.491	-.491	0	%100
23	M19	X	.312	.312	0	%100
24	M19	Z	-.541	-.541	0	%100
25	M21	X	.099	.099	0	%100
26	M21	Z	-.172	-.172	0	%100
27	MP1C	X	.306	.306	0	%100
28	MP1C	Z	-.531	-.531	0	%100
29	MP2C	X	.306	.306	0	%100
30	MP2C	Z	-.531	-.531	0	%100
31	M28	X	.382	.382	0	%100
32	M28	Z	-.661	-.661	0	%100
33	M29	X	.104	.104	0	%100
34	M29	Z	-.179	-.179	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	0	0	0	%100
37	M32	X	0	0	0	%100
38	M32	Z	0	0	0	%100
39	M34	X	.312	.312	0	%100
40	M34	Z	-.541	-.541	0	%100
41	M36	X	.397	.397	0	%100
42	M36	Z	-.688	-.688	0	%100
43	MP1B	X	.306	.306	0	%100
44	MP1B	Z	-.531	-.531	0	%100
45	MP2B	X	.306	.306	0	%100
46	MP2B	Z	-.531	-.531	0	%100
47	M43	X	.41	.41	0	%100
48	M43	Z	-.711	-.711	0	%100
49	M44	X	.41	.41	0	%100
50	M44	Z	-.711	-.711	0	%100
51	M46	X	.226	.226	0	%100
52	M46	Z	-.392	-.392	0	%100
53	M47	X	0	0	0	%100
54	M47	Z	0	0	0	%100
55	M48	X	.226	.226	0	%100
56	M48	Z	-.392	-.392	0	%100

Member Distributed Loads (BLC 67 : Structure Wm (60 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.133	.133	0	%100
2	M1	Z	-.077	-.077	0	%100
3	M2	X	.164	.164	0	%100
4	M2	Z	-.094	-.094	0	%100
5	M6	X	.541	.541	0	%100
6	M6	Z	-.312	-.312	0	%100
7	M10	X	.516	.516	0	%100
8	M10	Z	-.298	-.298	0	%100
9	MP1A	X	.531	.531	0	%100
10	MP1A	Z	-.306	-.306	0	%100
11	MP2A	X	.531	.531	0	%100
12	MP2A	Z	-.306	-.306	0	%100
13	M15	X	.373	.373	0	%100
14	M15	Z	-.215	-.215	0	%100
15	M16	X	.854	.854	0	%100
16	M16	Z	-.493	-.493	0	%100
17	OVP	X	.377	.377	0	%100
18	OVP	Z	-.218	-.218	0	%100
19	M16A	X	.531	.531	0	%100
20	M16A	Z	-.306	-.306	0	%100
21	M17A	X	.654	.654	0	%100
22	M17A	Z	-.378	-.378	0	%100
23	M19	X	.541	.541	0	%100
24	M19	Z	-.312	-.312	0	%100
25	M21	X	0	0	0	%100
26	M21	Z	0	0	0	%100
27	MP1C	X	.531	.531	0	%100
28	MP1C	Z	-.306	-.306	0	%100
29	MP2C	X	.531	.531	0	%100
30	MP2C	Z	-.306	-.306	0	%100
31	M28	X	.323	.323	0	%100
32	M28	Z	-.187	-.187	0	%100
33	M29	X	.323	.323	0	%100
34	M29	Z	-.187	-.187	0	%100
35	M31	X	.133	.133	0	%100
36	M31	Z	-.077	-.077	0	%100
37	M32	X	.164	.164	0	%100
38	M32	Z	-.094	-.094	0	%100
39	M34	X	.541	.541	0	%100
40	M34	Z	-.312	-.312	0	%100
41	M36	X	.516	.516	0	%100
42	M36	Z	-.298	-.298	0	%100
43	MP1B	X	.531	.531	0	%100
44	MP1B	Z	-.306	-.306	0	%100
45	MP2B	X	.531	.531	0	%100
46	MP2B	Z	-.306	-.306	0	%100
47	M43	X	.854	.854	0	%100
48	M43	Z	-.493	-.493	0	%100
49	M44	X	.373	.373	0	%100
50	M44	Z	-.215	-.215	0	%100
51	M46	X	.523	.523	0	%100
52	M46	Z	-.302	-.302	0	%100
53	M47	X	.131	.131	0	%100
54	M47	Z	-.075	-.075	0	%100
55	M48	X	.131	.131	0	%100
56	M48	Z	-.075	-.075	0	%100

Member Distributed Loads (BLC 68 : Structure Wm (90 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M6	X	.625	.625	0	%100
6	M6	Z	0	0	0	%100
7	M10	X	.795	.795	0	%100
8	M10	Z	0	0	0	%100
9	MP1A	X	.613	.613	0	%100
10	MP1A	Z	0	0	0	%100
11	MP2A	X	.613	.613	0	%100
12	MP2A	Z	0	0	0	%100
13	M15	X	.821	.821	0	%100
14	M15	Z	0	0	0	%100
15	M16	X	.821	.821	0	%100
16	M16	Z	0	0	0	%100
17	OVP	X	.435	.435	0	%100
18	OVP	Z	0	0	0	%100
19	M16A	X	.459	.459	0	%100
20	M16A	Z	0	0	0	%100
21	M17A	X	.566	.566	0	%100
22	M17A	Z	0	0	0	%100
23	M19	X	.625	.625	0	%100
24	M19	Z	0	0	0	%100
25	M21	X	.199	.199	0	%100
26	M21	Z	0	0	0	%100
27	MP1C	X	.613	.613	0	%100
28	MP1C	Z	0	0	0	%100
29	MP2C	X	.613	.613	0	%100
30	MP2C	Z	0	0	0	%100
31	M28	X	.207	.207	0	%100
32	M28	Z	0	0	0	%100
33	M29	X	.763	.763	0	%100
34	M29	Z	0	0	0	%100
35	M31	X	.459	.459	0	%100
36	M31	Z	0	0	0	%100
37	M32	X	.566	.566	0	%100
38	M32	Z	0	0	0	%100
39	M34	X	.625	.625	0	%100
40	M34	Z	0	0	0	%100
41	M36	X	.199	.199	0	%100
42	M36	Z	0	0	0	%100
43	MP1B	X	.613	.613	0	%100
44	MP1B	Z	0	0	0	%100
45	MP2B	X	.613	.613	0	%100
46	MP2B	Z	0	0	0	%100
47	M43	X	.763	.763	0	%100
48	M43	Z	0	0	0	%100
49	M44	X	.207	.207	0	%100
50	M44	Z	0	0	0	%100
51	M46	X	.453	.453	0	%100
52	M46	Z	0	0	0	%100
53	M47	X	.453	.453	0	%100
54	M47	Z	0	0	0	%100
55	M48	X	0	0	0	%100
56	M48	Z	0	0	0	%100

Member Distributed Loads (BLC 69 : Structure Wm (120 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.133	.133	0	%100
2	M1	Z	.077	.077	0	%100
3	M2	X	.164	.164	0	%100
4	M2	Z	.094	.094	0	%100
5	M6	X	.541	.541	0	%100
6	M6	Z	.312	.312	0	%100
7	M10	X	.516	.516	0	%100
8	M10	Z	.298	.298	0	%100
9	MP1A	X	.531	.531	0	%100
10	MP1A	Z	.306	.306	0	%100
11	MP2A	X	.531	.531	0	%100
12	MP2A	Z	.306	.306	0	%100
13	M15	X	.854	.854	0	%100
14	M15	Z	.493	.493	0	%100
15	M16	X	.373	.373	0	%100
16	M16	Z	.215	.215	0	%100
17	OVP	X	.377	.377	0	%100
18	OVP	Z	.218	.218	0	%100
19	M16A	X	.133	.133	0	%100
20	M16A	Z	.077	.077	0	%100
21	M17A	X	.164	.164	0	%100
22	M17A	Z	.094	.094	0	%100
23	M19	X	.541	.541	0	%100
24	M19	Z	.312	.312	0	%100
25	M21	X	.516	.516	0	%100
26	M21	Z	.298	.298	0	%100
27	MP1C	X	.531	.531	0	%100
28	MP1C	Z	.306	.306	0	%100
29	MP2C	X	.531	.531	0	%100
30	MP2C	Z	.306	.306	0	%100
31	M28	X	.373	.373	0	%100
32	M28	Z	.215	.215	0	%100
33	M29	X	.854	.854	0	%100
34	M29	Z	.493	.493	0	%100
35	M31	X	.531	.531	0	%100
36	M31	Z	.306	.306	0	%100
37	M32	X	.654	.654	0	%100
38	M32	Z	.378	.378	0	%100
39	M34	X	.541	.541	0	%100
40	M34	Z	.312	.312	0	%100
41	M36	X	0	0	0	%100
42	M36	Z	0	0	0	%100
43	MP1B	X	.531	.531	0	%100
44	MP1B	Z	.306	.306	0	%100
45	MP2B	X	.531	.531	0	%100
46	MP2B	Z	.306	.306	0	%100
47	M43	X	.323	.323	0	%100
48	M43	Z	.187	.187	0	%100
49	M44	X	.323	.323	0	%100
50	M44	Z	.187	.187	0	%100
51	M46	X	.131	.131	0	%100
52	M46	Z	.075	.075	0	%100
53	M47	X	.523	.523	0	%100
54	M47	Z	.302	.302	0	%100
55	M48	X	.131	.131	0	%100
56	M48	Z	.075	.075	0	%100

Member Distributed Loads (BLC 70 : Structure Wm (150 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.23	.23	0	%100
2	M1	Z	.398	.398	0	%100
3	M2	X	.283	.283	0	%100
4	M2	Z	.491	.491	0	%100
5	M6	X	.312	.312	0	%100
6	M6	Z	.541	.541	0	%100
7	M10	X	.099	.099	0	%100
8	M10	Z	.172	.172	0	%100
9	MP1A	X	.306	.306	0	%100
10	MP1A	Z	.531	.531	0	%100
11	MP2A	X	.306	.306	0	%100
12	MP2A	Z	.531	.531	0	%100
13	M15	X	.382	.382	0	%100
14	M15	Z	.661	.661	0	%100
15	M16	X	.104	.104	0	%100
16	M16	Z	.179	.179	0	%100
17	OVP	X	.218	.218	0	%100
18	OVP	Z	.377	.377	0	%100
19	M16A	X	0	0	0	%100
20	M16A	Z	0	0	0	%100
21	M17A	X	0	0	0	%100
22	M17A	Z	0	0	0	%100
23	M19	X	.312	.312	0	%100
24	M19	Z	.541	.541	0	%100
25	M21	X	.397	.397	0	%100
26	M21	Z	.688	.688	0	%100
27	MP1C	X	.306	.306	0	%100
28	MP1C	Z	.531	.531	0	%100
29	MP2C	X	.306	.306	0	%100
30	MP2C	Z	.531	.531	0	%100
31	M28	X	.41	.41	0	%100
32	M28	Z	.711	.711	0	%100
33	M29	X	.41	.41	0	%100
34	M29	Z	.711	.711	0	%100
35	M31	X	.23	.23	0	%100
36	M31	Z	.398	.398	0	%100
37	M32	X	.283	.283	0	%100
38	M32	Z	.491	.491	0	%100
39	M34	X	.312	.312	0	%100
40	M34	Z	.541	.541	0	%100
41	M36	X	.099	.099	0	%100
42	M36	Z	.172	.172	0	%100
43	MP1B	X	.306	.306	0	%100
44	MP1B	Z	.531	.531	0	%100
45	MP2B	X	.306	.306	0	%100
46	MP2B	Z	.531	.531	0	%100
47	M43	X	.104	.104	0	%100
48	M43	Z	.179	.179	0	%100
49	M44	X	.382	.382	0	%100
50	M44	Z	.661	.661	0	%100
51	M46	X	0	0	0	%100
52	M46	Z	0	0	0	%100
53	M47	X	.226	.226	0	%100
54	M47	Z	.392	.392	0	%100
55	M48	X	.226	.226	0	%100
56	M48	Z	.392	.392	0	%100

Member Distributed Loads (BLC 71 : Structure Wm (180 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	.613	.613	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	.755	.755	0	%100
5	M6	X	0	0	0	%100
6	M6	Z	.625	.625	0	%100
7	M10	X	0	0	0	%100
8	M10	Z	0	0	0	%100
9	MP1A	X	0	0	0	%100
10	MP1A	Z	.613	.613	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	.613	.613	0	%100
13	M15	X	0	0	0	%100
14	M15	Z	.373	.373	0	%100
15	M16	X	0	0	0	%100
16	M16	Z	.373	.373	0	%100
17	OVP	X	0	0	0	%100
18	OVP	Z	.435	.435	0	%100
19	M16A	X	0	0	0	%100
20	M16A	Z	.153	.153	0	%100
21	M17A	X	0	0	0	%100
22	M17A	Z	.189	.189	0	%100
23	M19	X	0	0	0	%100
24	M19	Z	.625	.625	0	%100
25	M21	X	0	0	0	%100
26	M21	Z	.596	.596	0	%100
27	MP1C	X	0	0	0	%100
28	MP1C	Z	.613	.613	0	%100
29	MP2C	X	0	0	0	%100
30	MP2C	Z	.613	.613	0	%100
31	M28	X	0	0	0	%100
32	M28	Z	.987	.987	0	%100
33	M29	X	0	0	0	%100
34	M29	Z	.431	.431	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	.153	.153	0	%100
37	M32	X	0	0	0	%100
38	M32	Z	.189	.189	0	%100
39	M34	X	0	0	0	%100
40	M34	Z	.625	.625	0	%100
41	M36	X	0	0	0	%100
42	M36	Z	.596	.596	0	%100
43	MP1B	X	0	0	0	%100
44	MP1B	Z	.613	.613	0	%100
45	MP2B	X	0	0	0	%100
46	MP2B	Z	.613	.613	0	%100
47	M43	X	0	0	0	%100
48	M43	Z	.431	.431	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	.987	.987	0	%100
51	M46	X	0	0	0	%100
52	M46	Z	.151	.151	0	%100
53	M47	X	0	0	0	%100
54	M47	Z	.151	.151	0	%100
55	M48	X	0	0	0	%100
56	M48	Z	.604	.604	0	%100

Member Distributed Loads (BLC 72 : Structure Wm (210 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.23	-.23	0	%100
2	M1	Z	.398	.398	0	%100
3	M2	X	-.283	-.283	0	%100
4	M2	Z	.491	.491	0	%100
5	M6	X	-.312	-.312	0	%100
6	M6	Z	.541	.541	0	%100
7	M10	X	-.099	-.099	0	%100
8	M10	Z	.172	.172	0	%100
9	MP1A	X	-.306	-.306	0	%100
10	MP1A	Z	.531	.531	0	%100
11	MP2A	X	-.306	-.306	0	%100
12	MP2A	Z	.531	.531	0	%100
13	M15	X	-.104	-.104	0	%100
14	M15	Z	.179	.179	0	%100
15	M16	X	-.382	-.382	0	%100
16	M16	Z	.661	.661	0	%100
17	OVP	X	-.218	-.218	0	%100
18	OVP	Z	.377	.377	0	%100
19	M16A	X	-.23	-.23	0	%100
20	M16A	Z	.398	.398	0	%100
21	M17A	X	-.283	-.283	0	%100
22	M17A	Z	.491	.491	0	%100
23	M19	X	-.312	-.312	0	%100
24	M19	Z	.541	.541	0	%100
25	M21	X	-.099	-.099	0	%100
26	M21	Z	.172	.172	0	%100
27	MP1C	X	-.306	-.306	0	%100
28	MP1C	Z	.531	.531	0	%100
29	MP2C	X	-.306	-.306	0	%100
30	MP2C	Z	.531	.531	0	%100
31	M28	X	-.382	-.382	0	%100
32	M28	Z	.661	.661	0	%100
33	M29	X	-.104	-.104	0	%100
34	M29	Z	.179	.179	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	0	0	0	%100
37	M32	X	0	0	0	%100
38	M32	Z	0	0	0	%100
39	M34	X	-.312	-.312	0	%100
40	M34	Z	.541	.541	0	%100
41	M36	X	-.397	-.397	0	%100
42	M36	Z	.688	.688	0	%100
43	MP1B	X	-.306	-.306	0	%100
44	MP1B	Z	.531	.531	0	%100
45	MP2B	X	-.306	-.306	0	%100
46	MP2B	Z	.531	.531	0	%100
47	M43	X	-.41	-.41	0	%100
48	M43	Z	.711	.711	0	%100
49	M44	X	-.41	-.41	0	%100
50	M44	Z	.711	.711	0	%100
51	M46	X	-.226	-.226	0	%100
52	M46	Z	.392	.392	0	%100
53	M47	X	0	0	0	%100
54	M47	Z	0	0	0	%100
55	M48	X	-.226	-.226	0	%100
56	M48	Z	.392	.392	0	%100

Member Distributed Loads (BLC 73 : Structure Wm (240 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.133	-.133	0	%100
2	M1	Z	.077	.077	0	%100
3	M2	X	-.164	-.164	0	%100
4	M2	Z	.094	.094	0	%100
5	M6	X	-.541	-.541	0	%100
6	M6	Z	.312	.312	0	%100
7	M10	X	-.516	-.516	0	%100
8	M10	Z	.298	.298	0	%100
9	MP1A	X	-.531	-.531	0	%100
10	MP1A	Z	.306	.306	0	%100
11	MP2A	X	-.531	-.531	0	%100
12	MP2A	Z	.306	.306	0	%100
13	M15	X	-.373	-.373	0	%100
14	M15	Z	.215	.215	0	%100
15	M16	X	-.854	-.854	0	%100
16	M16	Z	.493	.493	0	%100
17	OVP	X	-.377	-.377	0	%100
18	OVP	Z	.218	.218	0	%100
19	M16A	X	-.531	-.531	0	%100
20	M16A	Z	.306	.306	0	%100
21	M17A	X	-.654	-.654	0	%100
22	M17A	Z	.378	.378	0	%100
23	M19	X	-.541	-.541	0	%100
24	M19	Z	.312	.312	0	%100
25	M21	X	0	0	0	%100
26	M21	Z	0	0	0	%100
27	MP1C	X	-.531	-.531	0	%100
28	MP1C	Z	.306	.306	0	%100
29	MP2C	X	-.531	-.531	0	%100
30	MP2C	Z	.306	.306	0	%100
31	M28	X	-.323	-.323	0	%100
32	M28	Z	.187	.187	0	%100
33	M29	X	-.323	-.323	0	%100
34	M29	Z	.187	.187	0	%100
35	M31	X	-.133	-.133	0	%100
36	M31	Z	.077	.077	0	%100
37	M32	X	-.164	-.164	0	%100
38	M32	Z	.094	.094	0	%100
39	M34	X	-.541	-.541	0	%100
40	M34	Z	.312	.312	0	%100
41	M36	X	-.516	-.516	0	%100
42	M36	Z	.298	.298	0	%100
43	MP1B	X	-.531	-.531	0	%100
44	MP1B	Z	.306	.306	0	%100
45	MP2B	X	-.531	-.531	0	%100
46	MP2B	Z	.306	.306	0	%100
47	M43	X	-.854	-.854	0	%100
48	M43	Z	.493	.493	0	%100
49	M44	X	-.373	-.373	0	%100
50	M44	Z	.215	.215	0	%100
51	M46	X	-.523	-.523	0	%100
52	M46	Z	.302	.302	0	%100
53	M47	X	-.131	-.131	0	%100
54	M47	Z	.075	.075	0	%100
55	M48	X	-.131	-.131	0	%100
56	M48	Z	.075	.075	0	%100

Member Distributed Loads (BLC 74 : Structure Wm (270 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M6	X	-.625	-.625	0	%100
6	M6	Z	0	0	0	%100
7	M10	X	-.795	-.795	0	%100
8	M10	Z	0	0	0	%100
9	MP1A	X	-.613	-.613	0	%100
10	MP1A	Z	0	0	0	%100
11	MP2A	X	-.613	-.613	0	%100
12	MP2A	Z	0	0	0	%100
13	M15	X	-.821	-.821	0	%100
14	M15	Z	0	0	0	%100
15	M16	X	-.821	-.821	0	%100
16	M16	Z	0	0	0	%100
17	OVP	X	-.435	-.435	0	%100
18	OVP	Z	0	0	0	%100
19	M16A	X	-.459	-.459	0	%100
20	M16A	Z	0	0	0	%100
21	M17A	X	-.566	-.566	0	%100
22	M17A	Z	0	0	0	%100
23	M19	X	-.625	-.625	0	%100
24	M19	Z	0	0	0	%100
25	M21	X	-.199	-.199	0	%100
26	M21	Z	0	0	0	%100
27	MP1C	X	-.613	-.613	0	%100
28	MP1C	Z	0	0	0	%100
29	MP2C	X	-.613	-.613	0	%100
30	MP2C	Z	0	0	0	%100
31	M28	X	-.207	-.207	0	%100
32	M28	Z	0	0	0	%100
33	M29	X	-.763	-.763	0	%100
34	M29	Z	0	0	0	%100
35	M31	X	-.459	-.459	0	%100
36	M31	Z	0	0	0	%100
37	M32	X	-.566	-.566	0	%100
38	M32	Z	0	0	0	%100
39	M34	X	-.625	-.625	0	%100
40	M34	Z	0	0	0	%100
41	M36	X	-.199	-.199	0	%100
42	M36	Z	0	0	0	%100
43	MP1B	X	-.613	-.613	0	%100
44	MP1B	Z	0	0	0	%100
45	MP2B	X	-.613	-.613	0	%100
46	MP2B	Z	0	0	0	%100
47	M43	X	-.763	-.763	0	%100
48	M43	Z	0	0	0	%100
49	M44	X	-.207	-.207	0	%100
50	M44	Z	0	0	0	%100
51	M46	X	-.453	-.453	0	%100
52	M46	Z	0	0	0	%100
53	M47	X	-.453	-.453	0	%100
54	M47	Z	0	0	0	%100
55	M48	X	0	0	0	%100
56	M48	Z	0	0	0	%100

Member Distributed Loads (BLC 75 : Structure Wm (300 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.133	-.133	0	%100
2	M1	Z	-.077	-.077	0	%100
3	M2	X	-.164	-.164	0	%100
4	M2	Z	-.094	-.094	0	%100
5	M6	X	-.541	-.541	0	%100
6	M6	Z	-.312	-.312	0	%100
7	M10	X	-.516	-.516	0	%100
8	M10	Z	-.298	-.298	0	%100
9	MP1A	X	-.531	-.531	0	%100
10	MP1A	Z	-.306	-.306	0	%100
11	MP2A	X	-.531	-.531	0	%100
12	MP2A	Z	-.306	-.306	0	%100
13	M15	X	-.854	-.854	0	%100
14	M15	Z	-.493	-.493	0	%100
15	M16	X	-.373	-.373	0	%100
16	M16	Z	-.215	-.215	0	%100
17	OVP	X	-.377	-.377	0	%100
18	OVP	Z	-.218	-.218	0	%100
19	M16A	X	-.133	-.133	0	%100
20	M16A	Z	-.077	-.077	0	%100
21	M17A	X	-.164	-.164	0	%100
22	M17A	Z	-.094	-.094	0	%100
23	M19	X	-.541	-.541	0	%100
24	M19	Z	-.312	-.312	0	%100
25	M21	X	-.516	-.516	0	%100
26	M21	Z	-.298	-.298	0	%100
27	MP1C	X	-.531	-.531	0	%100
28	MP1C	Z	-.306	-.306	0	%100
29	MP2C	X	-.531	-.531	0	%100
30	MP2C	Z	-.306	-.306	0	%100
31	M28	X	-.373	-.373	0	%100
32	M28	Z	-.215	-.215	0	%100
33	M29	X	-.854	-.854	0	%100
34	M29	Z	-.493	-.493	0	%100
35	M31	X	-.531	-.531	0	%100
36	M31	Z	-.306	-.306	0	%100
37	M32	X	-.654	-.654	0	%100
38	M32	Z	-.378	-.378	0	%100
39	M34	X	-.541	-.541	0	%100
40	M34	Z	-.312	-.312	0	%100
41	M36	X	0	0	0	%100
42	M36	Z	0	0	0	%100
43	MP1B	X	-.531	-.531	0	%100
44	MP1B	Z	-.306	-.306	0	%100
45	MP2B	X	-.531	-.531	0	%100
46	MP2B	Z	-.306	-.306	0	%100
47	M43	X	-.323	-.323	0	%100
48	M43	Z	-.187	-.187	0	%100
49	M44	X	-.323	-.323	0	%100
50	M44	Z	-.187	-.187	0	%100
51	M46	X	-.131	-.131	0	%100
52	M46	Z	-.075	-.075	0	%100
53	M47	X	-.523	-.523	0	%100
54	M47	Z	-.302	-.302	0	%100
55	M48	X	-.131	-.131	0	%100
56	M48	Z	-.075	-.075	0	%100

Member Distributed Loads (BLC 76 : Structure Wm (330 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.23	-.23	0	%100
2	M1	Z	-.398	-.398	0	%100
3	M2	X	-.283	-.283	0	%100
4	M2	Z	-.491	-.491	0	%100
5	M6	X	-.312	-.312	0	%100
6	M6	Z	-.541	-.541	0	%100
7	M10	X	-.099	-.099	0	%100
8	M10	Z	-.172	-.172	0	%100
9	MP1A	X	-.306	-.306	0	%100
10	MP1A	Z	-.531	-.531	0	%100
11	MP2A	X	-.306	-.306	0	%100
12	MP2A	Z	-.531	-.531	0	%100
13	M15	X	-.382	-.382	0	%100
14	M15	Z	-.661	-.661	0	%100
15	M16	X	-.104	-.104	0	%100
16	M16	Z	-.179	-.179	0	%100
17	OVP	X	-.218	-.218	0	%100
18	OVP	Z	-.377	-.377	0	%100
19	M16A	X	0	0	0	%100
20	M16A	Z	0	0	0	%100
21	M17A	X	0	0	0	%100
22	M17A	Z	0	0	0	%100
23	M19	X	-.312	-.312	0	%100
24	M19	Z	-.541	-.541	0	%100
25	M21	X	-.397	-.397	0	%100
26	M21	Z	-.688	-.688	0	%100
27	MP1C	X	-.306	-.306	0	%100
28	MP1C	Z	-.531	-.531	0	%100
29	MP2C	X	-.306	-.306	0	%100
30	MP2C	Z	-.531	-.531	0	%100
31	M28	X	-.41	-.41	0	%100
32	M28	Z	-.711	-.711	0	%100
33	M29	X	-.41	-.41	0	%100
34	M29	Z	-.711	-.711	0	%100
35	M31	X	-.23	-.23	0	%100
36	M31	Z	-.398	-.398	0	%100
37	M32	X	-.283	-.283	0	%100
38	M32	Z	-.491	-.491	0	%100
39	M34	X	-.312	-.312	0	%100
40	M34	Z	-.541	-.541	0	%100
41	M36	X	-.099	-.099	0	%100
42	M36	Z	-.172	-.172	0	%100
43	MP1B	X	-.306	-.306	0	%100
44	MP1B	Z	-.531	-.531	0	%100
45	MP2B	X	-.306	-.306	0	%100
46	MP2B	Z	-.531	-.531	0	%100
47	M43	X	-.104	-.104	0	%100
48	M43	Z	-.179	-.179	0	%100
49	M44	X	-.382	-.382	0	%100
50	M44	Z	-.661	-.661	0	%100
51	M46	X	0	0	0	%100
52	M46	Z	0	0	0	%100
53	M47	X	-.226	-.226	0	%100
54	M47	Z	-.392	-.392	0	%100
55	M48	X	-.226	-.226	0	%100
56	M48	Z	-.392	-.392	0	%100

Member Area Loads

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[psf]
No Data to Print ...						

Envelope Joint Reactions

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N15	max	584.346	9	1818.238	13	579.48	1	.111	7	1.887	9	1.002	2
2		min	-576.553	3	-19.486	7	-409.909	7	-5.181	13	-1.864	3	-.134	8
3	N27	max	390.183	10	700.194	7	815.22	1	0	1	0	8	.003	2
4		min	-395.424	4	-446.888	1	-1210.204	7	0	7	-.001	2	0	8
5	N29B	max	0	75	0	75	0	75	0	75	0	75	0	75
6		min	0	1	0	1	0	1	0	1	0	1	0	1
7	N39	max	533.759	10	1805.528	21	488.719	2	3.122	22	1.279	8	4.135	21
8		min	-391.719	4	-134.585	3	-553.578	8	.149	4	-1.325	2	-.677	3
9	N52	max	838.558	9	772.492	3	710.425	2	.003	2	0	8	0	4
10		min	-1167.853	3	-532.42	9	-526.426	8	-.001	8	-.002	2	-.001	10
11	N68	max	718.094	10	2209.138	17	703.189	12	2.198	28	1.396	1	-.507	11
12		min	-870.156	4	27.871	11	-781.705	6	-.463	10	-1.371	7	-4.883	17
13	N81	max	1126.695	11	738.899	11	649.666	12	0	36	0	32	0	4
14		min	-788.837	5	-490.669	5	-458.375	6	-.002	42	-.001	38	-.001	10
15	Totals:	max	3865.668	10	6413.926	22	3584.736	1						
16		min	-3865.64	4	1495.096	65	-3584.741	7						

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

	Member	Shape	Code C...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [l..	phi*Pnt [lb]	phi*Mn y-...	phi*Mn z-...	Cb	Eqn
1	M1	PIPE_2.0	.284	2.345	9	.114	5.78		7	14797.035	32130	1.872	1.872	1....	H1-1b
2	M2	HSS3.500X0....	.314	2.5	14	.121	2.5		13	58642.371	68796	6.08	6.08	1....	H1-1b
3	M6	PIPE_4.0	.000	.75	5	.000	.75		5	92571.332	93240	10.631	10.631	1....	H1-1b
4	M10	HSS4X4X4	.341	2.75	14	.104	2.75	y	14	135171.43	139518	16.181	16.181	1....	H1-1b
5	MP1A	PIPE_2.0	.382	6.333	24	.114	2.5		18	14916.096	32130	1.872	1.872	2....	H1-1b
6	MP2A	PIPE_2.0	.370	6.333	14	.151	2.5		8	14916.096	32130	1.872	1.872	2....	H1-1b
7	M15	L2.5x2.5x3	.056	2.1	20	.018	4.2	y	6	16418.872	29192.4	.873	1.693	1....	H2-1
8	M16	L2.5x2.5x3	.056	2.1	18	.022	4.2	z	2	16418.872	29192.4	.873	1.693	1....	H2-1
9	OVP	PIPE_1.5	.501	3	1	.036	3		12	19913.659	23593.5	1.105	1.105	1....	H1-1b
10	M16A	PIPE_2.0	.281	2.345	4	.105	2.262		3	14797.035	32130	1.872	1.872	1....	H1-1b
11	M17A	HSS3.500X0....	.304	2.5	21	.118	2.5		21	58642.371	68796	6.08	6.08	1....	H1-1b
12	M19	PIPE_4.0	.000	.75	1	.000	.75		1	92571.332	93240	10.631	10.631	1	H1-1b
13	M21	HSS4X4X4	.334	2.75	20	.098	2.75	y	22	135171.43	139518	16.181	16.181	1....	H1-1b
14	MP1C	PIPE_2.0	.384	6.333	20	.118	2.5		14	14916.096	32130	1.872	1.872	1....	H1-1b
15	MP2C	PIPE_2.0	.360	6.333	22	.134	2.5		3	14916.096	32130	1.872	1.872	1....	H1-1b
16	M28	L2.5x2.5x3	.056	2.1	16	.023	4.2	y	2	16418.872	29192.4	.873	1.693	1....	H2-1
17	M29	L2.5x2.5x3	.056	2.1	14	.016	4.2	z	10	16418.872	29192.4	.873	1.693	1....	H2-1
18	M31	PIPE_2.0	.292	5.696	10	.120	5.78		11	14797.035	32130	1.872	1.872	1....	H1-1b
19	M32	HSS3.500X0....	.312	2.5	17	.121	2.5		17	58642.371	68796	6.08	6.08	1....	H1-1b
20	M34	PIPE_4.0	.000	.75	10	.000	.75		10	92571.332	93240	10.631	10.631	1....	H1-1b
21	M36	HSS4X4X4	.345	2.75	16	.136	2.75	y	42	135171.43	139518	16.181	16.181	1....	H1-1b
22	MP1B	PIPE_2.0	.387	6.333	16	.117	2.5		22	14916.096	32130	1.872	1.872	1....	H1-1b
23	MP2B	PIPE_2.0	.365	6.333	18	.138	2.5		11	14916.096	32130	1.872	1.872	1....	H1-1b
24	M43	L2.5x2.5x3	.056	2.1	24	.018	0	y	10	16418.872	29192.4	.873	1.693	1....	H2-1
25	M44	L2.5x2.5x3	.057	2.1	22	.017	0	z	6	16418.872	29192.4	.873	1.693	1....	H2-1
26	M46	PIPE_2.0	.026	2.396	21	.077	0		2	24396.174	32130	1.872	1.872	1....	H1-1b
27	M47	PIPE_2.0	.026	2.396	17	.051	0		10	24396.174	32130	1.872	1.872	1....	H1-1b
28	M48	PIPE_2.0	.026	2.396	13	.069	0		2	24396.174	32130	1.872	1.872	1....	H1-1b

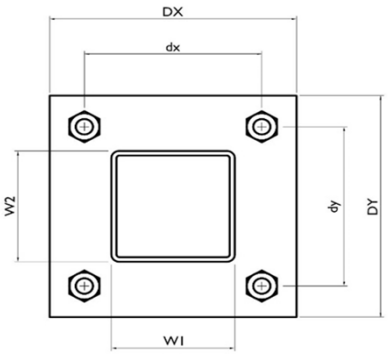
VzW SMART Tool© Vendor

Client:	Verizon Wireless	Date:	10/17/2023
Site Name:	Coventry West CT - A		
MDG #:	5000232014		
Fuze ID #:	17123891	Page:	1

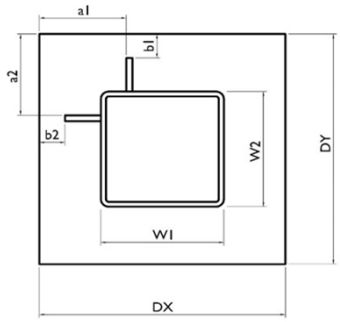
Version 1.01

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):	5.4
Required Shear Strength / bolt (kips):	1.0
Tensile Capacity / bolt (kips):	20.7
Shear Capacity / bolt (kips):	12.4
Bolt Overall Utilization:	**26.3%**



Tower Connection Baseplate Checks	Yes
Connecting Standoff Member Shape:	Rect Tube
Weld Stiffener Configuration:	Has Stiffeners
Plate Width, D_x (in):	7.75
Plate Height, D_y (in):	7.75
W1(in):	4
W2 (in):	4
Member Thickness (in):	0.25
Stiffener location a_1 (in):	2.5
Stiffener location b_1 (in):	0.25
Stiffener location a_2 (in):	4
Stiffener location b_2 (in):	2
F_y (ksi, plate):	36
Plate Thickness (in):	0.75
Length of Yield Line, L_y (in):	3.89
Bolt Eccentricity, e (in):	0.71
M_u (kip-in):	3.84
Phi*M_n (kip-in):	17.72
Plate Bending Utilization:	**21.7%**



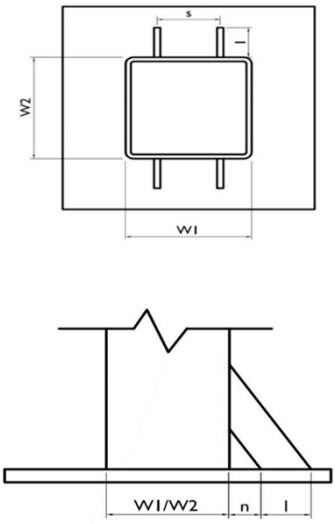
VzW SMART Tool© Vendor

Client:	Verizon Wireless	Date:	10/17/2023
Site Name:	Coventry West CT - A		
PSLC #:	5000232014		
Fuze ID #:	17123891	Page:	2

Version 1.01

Tower Connection Weld Checks	Yes

Weld Shape:	Rectangle
Weld Stiffener Configuration:	(2) Stiffeners on top/bottom
Stiffener Notch Present?	Yes
Stiffener Length, l (in):	2.25
Stiffener Spacing/Width, s (in):	3
Stiffener Notch Length, n (in):	0.5
Weld Size (1/16 in):	3
W1 (in):	4
W2 (in):	4
Weld Total Length (in):	34.00
Z_x (in^3/in):	100.91
Z_y (in^3/in):	34.83
J_p (in^4/in):	412.71
c_x (in)	4.75
c_y (in)	4.75
Required combined strength (kip/in):	0.63
Weld Capacity (kip/in):	4.18
Weld Utilization:	**15.1%**



Date: **December 22, 2023**

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

Subject:	**Structural Analysis Report**	
Carrier Designation:	***Verizon Wireless* Co-Locate**	
	Site Number:	5000232014
	Site Name:	Coventry West CT - A
Crown Castle Designation:	**BU Number:**	842856
	Site Name:	ANDOVER NORTH
	JDE Job Number:	751347
	Work Order Number:	2246204
	Order Number:	654611 Rev. 2
Engineering Firm Designation:	**Crown Castle Project Number**	2246204
Site Data:	**122 Jonathan Trumbull Highway (route 6), Andover, Tolland County, CT**	
	Latitude: *41° 45' 0.46"* Longitude: *-72° 24' 9.63"*	
	149 ft - Monopole Tower	

Crown Castle is pleased to submit this **"Structural Analysis Report"** to determine the structural integrity of the above-mentioned tower.

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

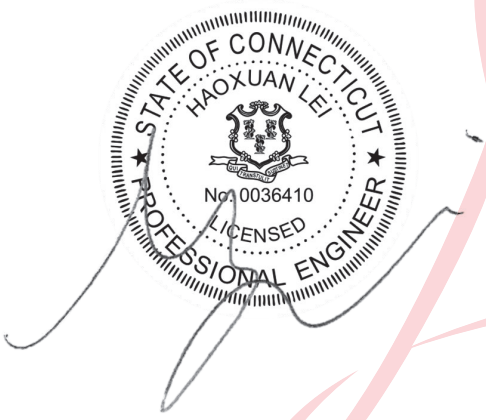
LC7: Proposed Equipment Configuration **Sufficient Capacity - 96.3%**

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

Structural analysis prepared by: Matthew Schmitt

Respectfully submitted by:

Haoxuan Lei
Project Engineer



Digitally signed by Haoxuan Lei
Date: 2023.12.22 15:46:45 -06'00'

TABLE OF CONTENTS

1) INTRODUCTION

This tower is a 149 ft Monopole Tower designed by Engineered Endeavors, Inc.. The tower has been modified in the past to accommodate additional loading.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	119 mph
Exposure Category:	C
Topographic Factor:	1
Ice Thickness:	1.50 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)
130	130	12	commscope	NHH-65B-R2B w/ Mount Pipe	2	1-5/8
		2	kaelus	BSF0020F3V1		
		1	rfs celwave	DB-C1-12C-24AB-0Z		
		6	samsung telecommunications	RFV01U-D1A		
		6	samsung telecommunications	RFV01U-D2A		
		1	site pro 1	RMV5-SQNP w/ PRK-SFS and HRK12		

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)
149	149	3	cci antennas	DMP65R-BU6D w/ Mount Pipe	2 1 6	7/8 3/8 1-1/4
		3	cci antennas	HPA65R-BU6A w/ Mount Pipe		
		3	ericsson	RRUS 4449 B5/B12		
		3	ericsson	RRUS 8843 B2/B66A		
		1	raycap	DC6-48-60-18-8F		
		1	sabre	C10855721C 12' Platform Mount		
140	140	3	ericsson	AIR 6419 B41_TMO_CCIV2 w/ Mount Pipe	3	1-5/8
		3	ericsson	RADIO 4449 B71 B85A_T-MOBILE		
		3	ericsson	RADIO 4460 B2/B25 B66_TMO		
		3	rfs celwave	APXVAARR24_43-U-NA20 w/ Mount Pipe		
		1	site pro 1	RMQP-496 + HRK12		
120	120	3	fujitsu	TA08025-B604	1	1-1/2
		3	fujitsu	TA08025-B605		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
		3	jma wireless	MX08FRO665-21 w/ Mount Pipe		
		1	raycap	RDIDC-9181-PF-48		
		1	tower mounts	Commscope MC-PK8-DSH		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
4-GEOTECHNICAL REPORTS	4713186	CCISITES
4-POST-MODIFICATION INSPECTION	4713189	CCISITES
4-POST-MODIFICATION INSPECTION	6003147	CCISITES
4-POST-MODIFICATION INSPECTION	10135443	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	4529267	CCISITES
4-TOWER MANUFACTURER DRAWINGS	4713188	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	4713190	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	5760149	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	9631497	CCISITES

3.1) Analysis Method

tnxTower (version 8.2.2.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 standard.

tnxTower was used to determine the loads on the modified structure. Additional calculations were performed to determine the stresses in the reinforcing elements. These calculations are included in Appendix C.

3.2) Assumptions

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

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

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
149 - 144	Pole	TP22.426x21.5x0.1875	Pole	6.4	Pass
144 - 139	Pole	TP23.352x22.426x0.1875	Pole	12.7	Pass
139 - 134	Pole	TP24.278x23.352x0.1875	Pole	21.3	Pass
134 - 129	Pole	TP25.204x24.278x0.1875	Pole	30.7	Pass

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
129 - 127.39	Pole	TP26.202x25.204x0.1875	Pole	34.3	Pass
127.39 - 122.39	Pole	TP26.043x25.128x0.1875	Pole	45.9	Pass
122.39 - 117.39	Pole	TP26.958x26.043x0.1875	Pole	57.5	Pass
117.39 - 112.39	Pole	TP27.873x26.958x0.1875	Pole	69.0	Pass
112.39 - 107.39	Pole	TP28.788x27.873x0.1875	Pole	79.5	Pass
107.39 - 102.39	Pole	TP29.703x28.788x0.1875	Pole	89.2	Pass
102.39 - 98.5	Pole	TP30.415x29.703x0.1875	Pole	96.3	Pass
98.5 - 98.25	Pole + Reinf.	TP30.46x30.415x0.3438	Reinf. 2 Tension Rupture	77.3	Pass
98.25 - 93.25	Pole + Reinf.	TP31.375x30.46x0.3375	Reinf. 2 Tension Rupture	84.1	Pass
93.25 - 88.25	Pole + Reinf.	TP32.29x31.375x0.3313	Reinf. 2 Tension Rupture	90.5	Pass
88.25 - 83.87	Pole + Reinf.	TP33.96x32.29x0.3313	Reinf. 2 Tension Rupture	95.7	Pass
83.87 - 78.13	Pole	TP33.763x32.716x0.25	Pole	86.5	Pass
78.13 - 73.13	Pole	TP34.675x33.763x0.25	Pole	90.8	Pass
73.13 - 69.92	Pole	TP35.259x34.675x0.25	Pole	93.3	Pass
69.92 - 69.67	Pole + Reinf.	TP35.305x35.259x0.5	Reinf. 3 Tension Rupture	66.1	Pass
69.67 - 64.67	Pole + Reinf.	TP36.216x35.305x0.4875	Reinf. 3 Tension Rupture	69.0	Pass
64.67 - 59.67	Pole + Reinf.	TP37.127x36.216x0.4875	Reinf. 3 Tension Rupture	71.7	Pass
59.67 - 57.25	Pole + Reinf.	TP37.568x37.127x0.4813	Reinf. 3 Tension Rupture	73.0	Pass
57.25 - 57	Pole + Reinf.	TP37.614x37.568x0.4188	Reinf. 1 Tension Rupture	85.0	Pass
57 - 52	Pole + Reinf.	TP38.525x37.614x0.4125	Reinf. 1 Tension Rupture	87.8	Pass
52 - 48.76	Pole + Reinf.	TP40.121x38.525x0.4125	Reinf. 1 Tension Rupture	89.4	Pass
48.76 - 42.24	Pole	TP39.803x38.616x0.3125	Pole	84.5	Pass
42.24 - 37.24	Pole	TP40.714x39.803x0.3125	Pole	86.5	Pass
37.24 - 32.24	Pole	TP41.625x40.714x0.3125	Pole	88.4	Pass
32.24 - 27.24	Pole	TP42.536x41.625x0.3125	Pole	90.1	Pass
27.24 - 22.24	Pole	TP43.447x42.536x0.3125	Pole	91.8	Pass
22.24 - 17.25	Pole	TP44.357x43.447x0.3125	Pole	93.5	Pass
17.25 - 17	Pole + Reinf.	TP44.403x44.357x0.625	Reinf. 4 Tension Rupture	61.8	Pass
17 - 12	Pole + Reinf.	TP45.314x44.403x0.6125	Reinf. 4 Tension Rupture	63.0	Pass
12 - 7	Pole + Reinf.	TP46.225x45.314x0.6125	Reinf. 4 Tension Rupture	64.1	Pass
7 - 5.25	Pole + Reinf.	TP46.543x46.225x0.6125	Reinf. 4 Tension Rupture	64.5	Pass
5.25 - 5	Pole + Reinf.	TP46.589x46.543x0.6	Reinf. 7 Compression	80.4	Pass
5 - 0	Pole + Reinf.	TP47.5x46.589x0.5875	Reinf. 7 Compression	81.5	Pass
				Summary	
			Pole	96.3	Pass
			Reinforcement	95.7	Pass
			Overall	96.3	Pass

Table 5 - Tower Component Stresses vs. Capacity - LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	81.2	Pass
1	Base Plate	0	91.8	Pass
1	Base Foundation (Structural)	0	61.9	Pass
1	Base Foundation (Soil)	0	82.8	Pass

Structure Rating (max from all components) =	96.3%

Notes:
1) See additional documentation in “Appendix C – Additional Calculations” for calculations supporting the % capacity consumed

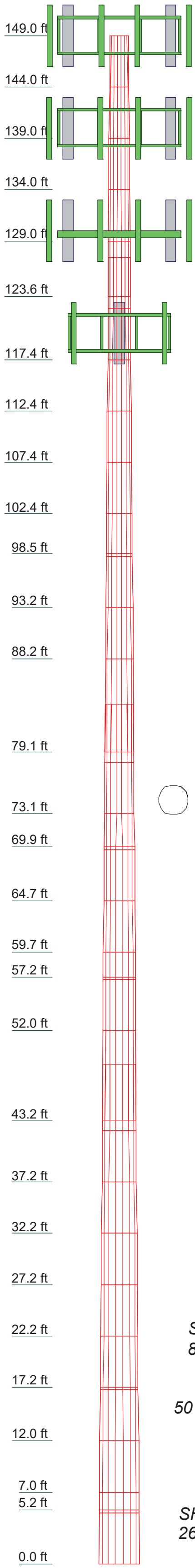
4.1) Recommendations

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

APPENDIX A

TNXTOWER OUTPUT

Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (K)
1	5.00	18	0.188		21.500	22.426	A572-65	0.2
2	5.00	18	0.188		22.426	23.352		0.2
3	5.00	18	0.188		23.352	24.278		0.2
4	5.00	18	0.188		24.278	25.204		0.2
5	5.00	18	0.188	3.78	25.204	26.202		0.3
6	0.39	18	0.188		25.128	26.043		0.3
7	5.00	18	0.188		26.043	26.958		0.3
8	5.00	18	0.188		26.958	27.873		0.3
9	5.00	18	0.188		27.873	28.788		0.3
10	5.00	18	0.188		28.788	29.703		0.3
11	3.89	18	0.188		29.703	30.415		0.2
12	0.25	18	0.344		30.415	30.460		0.0
13	5.00	18	0.331		30.460	31.375		0.5
14	5.00	18	0.331		31.375	32.290		0.5
15	9.12	18	0.331	4.75	32.290	33.960		1.0
16	5.75	18	0.250		32.716	33.763		0.5
17	5.00	18	0.250		33.763	34.675		0.5
18	3.21	18	0.250		34.675	35.259		0.3
19	0.25	18	0.500		35.259	35.305		0.0
20	5.00	18	0.487		35.305	36.216		0.9
21	5.00	18	0.487		36.216	37.127		0.9
22	2.42	18	0.481		37.127	37.568		0.4
23	0.25	18	0.419		37.568	37.614		0.0
24	5.00	18	0.412		37.614	38.525		0.8
25	8.76	18	0.412	5.52	38.525	40.121		1.5
26	6.52	18	0.312		38.616	39.803		0.9
27	5.00	18	0.312		39.803	40.714		0.7
28	5.00	18	0.312		40.714	41.625		0.7
29	5.00	18	0.312		41.625	42.536		0.7
30	5.00	18	0.312		42.536	43.447		0.7
31	4.99	18	0.312		43.447	44.357		0.7
32	0.25	18	0.625		44.357	44.403		0.1
33	5.00	18	0.613		44.403	45.314		1.4
34	5.00	18	0.613		45.314	46.225		1.4
35	2.75	18	0.613		46.225	46.542		0.5
36	0.25	18	0.601		[illegible]	[illegible]		0.0
37	5.00	18	0.588		46.588	47.500		1.4
								20.1



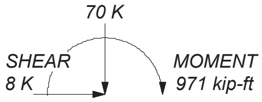
MATERIAL STRENGTH

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

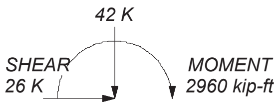
TOWER DESIGN NOTES

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 119 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft

ALL REACTIONS ARE FACTORED



TORQUE 0 kip-ft
50 mph WIND - 1.500 in ICE



TORQUE 1 kip-ft
REACTIONS - 119 mph WIND

CROWN CASTLE — The Pathway To Possible	**Crown Castle** 2000 Corporate Drive Canonsburg. PA 15317 Phone: (724) 416-2000 FAX:	Job: **BU# 842856**	
		Project:	
		Client: Crown Castle	Drawn by: HLei / App'd:
		Code: TIA-222-H	Date: 12/22/23 / Scale: NTS
		Path: C:\Temporary Working Space - No One Drive\842856\WO 2246204 - SA\FA\842856.eri	Dwg No. E-1

Tower Input Data

The tower is a monopole.
This tower is designed using the TIA-222-H standard.
The following design criteria apply:

Tower is located in Tolland County, Connecticut.
Tower base elevation above sea level: 496.00 ft.
Basic wind speed of 119 mph.
Risk Category II.
Exposure Category C.
Simplified Topographic Factor Procedure for wind speed-up calculations is used.
Topographic Category: 1.
Crest Height: 0.00 ft.
Nominal ice thickness of 1.500 in.
Ice thickness is considered to increase with height.
Ice density of 56 pcf.
A wind speed of 50 mph is used in combination with ice.
Temperature drop of 50 °F.
Deflections calculated using a wind speed of 60 mph.
A non-linear (P-delta) analysis was used.
Pressures are calculated at each section.
Stress ratio used in pole design is 1.
Tower analysis based on target reliabilities in accordance with Annex S.
Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
Maximum demand-capacity ratio is: 1.05.
Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

	Consider Moments - Legs		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

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	149.00-144.00	5.00	0.00	18	21.500	22.426	0.188	0.750	A572-65 (65 ksi)
L2	144.00-139.00	5.00	0.00	18	22.426	23.352	0.188	0.750	A572-65 (65 ksi)
L3	139.00-134.00	5.00	0.00	18	23.352	24.278	0.188	0.750	A572-65 (65 ksi)
L4	134.00-129.00	5.00	0.00	18	24.278	25.204	0.188	0.750	A572-65 (65 ksi)
L5	129.00-123.61	5.39	3.78	18	25.204	26.202	0.188	0.750	A572-65 (65 ksi)
L6	123.61-122.39	5.00	0.00	18	25.128	26.043	0.188	0.750	A572-65 (65 ksi)
L7	122.39-117.39	5.00	0.00	18	26.043	26.958	0.188	0.750	A572-65 (65 ksi)
L8	117.39-112.39	5.00	0.00	18	26.958	27.873	0.188	0.750	A572-65 (65 ksi)
L9	112.39-107.39	5.00	0.00	18	27.873	28.788	0.188	0.750	A572-65 (65 ksi)
L10	107.39-102.39	5.00	0.00	18	28.788	29.703	0.188	0.750	A572-65 (65 ksi)
L11	102.39-98.50	3.89	0.00	18	29.703	30.415	0.188	0.750	A572-65 (65 ksi)
L12	98.50-98.25	0.25	0.00	18	30.415	30.460	0.344	1.375	A572-65 (65 ksi)
L13	98.25-93.25	5.00	0.00	18	30.460	31.375	0.338	1.350	A572-65 (65 ksi)
L14	93.25-88.25	5.00	0.00	18	31.375	32.290	0.331	1.325	A572-65 (65 ksi)
L15	88.25-79.13	9.12	4.75	18	32.290	33.960	0.331	1.325	A572-65 (65 ksi)
L16	79.13-78.13	5.75	0.00	18	32.716	33.763	0.250	1.000	A572-65 (65 ksi)
L17	78.13-73.13	5.00	0.00	18	33.763	34.675	0.250	1.000	A572-65 (65 ksi)
L18	73.13-69.92	3.21	0.00	18	34.675	35.259	0.250	1.000	A572-65 (65 ksi)
L19	69.92-69.67	0.25	0.00	18	35.259	35.305	0.500	2.000	A572-65 (65 ksi)
L20	69.67-64.67	5.00	0.00	18	35.305	36.216	0.487	1.950	A572-65 (65 ksi)
L21	64.67-59.67	5.00	0.00	18	36.216	37.127	0.487	1.950	A572-65 (65 ksi)
L22	59.67-57.25	2.42	0.00	18	37.127	37.568	0.481	1.925	A572-65 (65 ksi)
L23	57.25-57.00	0.25	0.00	18	37.568	37.614	0.419	1.675	A572-65 (65 ksi)
L24	57.00-52.00	5.00	0.00	18	37.614	38.525	0.412	1.650	A572-65 (65 ksi)
L25	52.00-43.24	8.76	5.52	18	38.525	40.121	0.412	1.650	A572-65 (65 ksi)
L26	43.24-42.24	6.52	0.00	18	38.616	39.803	0.312	1.250	A572-65 (65 ksi)
L27	42.24-37.24	5.00	0.00	18	39.803	40.714	0.312	1.250	A572-65 (65 ksi)
L28	37.24-32.24	5.00	0.00	18	40.714	41.625	0.312	1.250	A572-65 (65 ksi)
L29	32.24-27.24	5.00	0.00	18	41.625	42.536	0.312	1.250	A572-65 (65 ksi)
L30	27.24-22.24	5.00	0.00	18	42.536	43.447	0.312	1.250	A572-65 (65 ksi)
L31	22.24-17.25	4.99	0.00	18	43.447	44.357	0.312	1.250	A572-65 (65 ksi)

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
L32	17.25-17.00	0.25	0.00	18	44.357	44.403	0.625	2.500	A572-65 (65 ksi)
L33	17.00-12.00	5.00	0.00	18	44.403	45.314	0.613	2.450	A572-65 (65 ksi)
L34	12.00-7.00	5.00	0.00	18	45.314	46.225	0.613	2.450	A572-65 (65 ksi)
L35	7.00-5.25	1.75	0.00	18	46.225	46.543	0.613	2.450	A572-65 (65 ksi)
L36	5.25-5.00	0.25	0.00	18	46.543	46.589	0.600	2.400	A572-65 (65 ksi)
L37	5.00-0.00	5.00		18	46.589	47.500	0.588	2.350	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/t
L1	21.803	12.684	727.862	7.566	10.922	66.642	1456.681	6.343	3.454	18.421
	22.743	13.235	826.923	7.895	11.392	72.585	1654.933	6.619	3.617	19.291
L2	22.743	13.235	826.923	7.895	11.392	72.585	1654.933	6.619	3.617	19.291
	23.683	13.786	934.587	8.223	11.863	78.783	1870.404	6.894	3.780	20.16
L3	23.683	13.786	934.587	8.223	11.863	78.783	1870.404	6.894	3.780	20.16
	24.624	14.337	1051.213	8.552	12.333	85.234	2103.810	7.170	3.943	21.029
L4	24.624	14.337	1051.213	8.552	12.333	85.234	2103.810	7.170	3.943	21.029
	25.564	14.888	1177.159	8.881	12.804	91.939	2355.868	7.445	4.106	21.898
L5	25.564	14.888	1177.159	8.881	12.804	91.939	2355.868	7.445	4.106	21.898
	26.577	15.482	1323.723	9.235	13.311	99.448	2649.188	7.742	4.282	22.835
L6	26.188	14.843	1166.401	8.854	12.765	91.376	2334.337	7.423	4.092	21.827
	26.416	15.387	1299.554	9.179	13.230	98.230	2600.818	7.695	4.254	22.686
L7	26.416	15.387	1299.554	9.179	13.230	98.230	2600.818	7.695	4.254	22.686
	27.345	15.932	1442.473	9.503	13.695	105.332	2886.844	7.967	4.415	23.544
L8	27.345	15.932	1442.473	9.503	13.695	105.332	2886.844	7.967	4.415	23.544
	28.274	16.476	1595.504	9.828	14.159	112.681	3193.107	8.240	4.576	24.403
L9	28.274	16.476	1595.504	9.828	14.159	112.681	3193.107	8.240	4.576	24.403
	29.203	17.021	1758.992	10.153	14.624	120.279	3520.299	8.512	4.737	25.262
L10	29.203	17.021	1758.992	10.153	14.624	120.279	3520.299	8.512	4.737	25.262
	30.132	17.565	1933.284	10.478	15.089	128.124	3869.113	8.784	4.898	26.121
L11	30.132	17.565	1933.284	10.478	15.089	128.124	3869.113	8.784	4.898	26.121
	30.855	17.989	2076.502	10.731	15.451	134.396	4155.736	8.996	5.023	26.789
L12	30.831	32.809	3748.188	10.675	15.451	242.592	7501.308	16.408	4.748	13.812
	30.877	32.859	3765.323	10.691	15.474	243.335	7535.600	16.433	4.756	13.836
L13	30.878	32.268	3699.164	10.694	15.474	239.059	7403.196	16.137	4.767	14.124
	31.807	33.249	4046.620	11.018	15.939	253.887	8098.565	16.627	4.928	14.602
L14	31.808	32.639	3974.083	11.021	15.939	249.336	7953.395	16.323	4.939	14.91
	32.737	33.601	4335.960	11.345	16.404	264.331	8677.626	16.804	5.100	15.397
L15	32.737	33.601	4335.960	11.345	16.404	264.331	8677.626	16.804	5.100	15.397
	34.433	35.357	5051.550	11.938	17.252	292.817	10109.748	17.682	5.394	16.284
L16	34.061	25.762	3430.738	11.526	16.620	206.423	6865.990	12.883	5.318	21.272
	34.246	26.593	3773.470	11.897	17.152	220.004	7551.904	13.299	5.502	22.009
L17	34.246	26.593	3773.470	11.897	17.152	220.004	7551.904	13.299	5.502	22.009
	35.171	27.316	4089.718	12.221	17.615	232.176	8184.817	13.661	5.663	22.651
L18	35.171	27.316	4089.718	12.221	17.615	232.176	8184.817	13.661	5.663	22.651
	35.765	27.780	4301.648	12.428	17.912	240.158	8608.957	13.893	5.766	23.063
L19	35.726	55.163	8420.302	12.340	17.912	470.100	16851.684	27.587	5.326	10.651
	35.772	55.235	8453.457	12.356	17.935	471.342	16918.037	27.623	5.334	10.667
L20	35.774	53.874	8251.004	12.360	17.935	460.054	16512.865	26.942	5.356	10.986
	36.700	55.284	8915.938	12.684	18.398	484.620	17843.607	27.647	5.516	11.315
L21	36.700	55.284	8915.938	12.684	18.398	484.620	17843.607	27.647	5.516	11.315

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
	37.625	56.694	9615.669	13.007	18.861	509.826	19243.990	28.352	5.676	11.644
L22	37.626	55.976	9497.249	13.009	18.861	503.547	19006.996	27.994	5.687	11.818
	38.074	56.650	9844.292	13.166	19.085	515.820	19701.537	28.330	5.765	11.979
L23	38.083	49.376	8609.191	13.188	19.085	451.104	17229.711	24.693	5.875	14.03
	38.130	49.437	8640.906	13.204	19.108	452.217	17293.182	24.723	5.883	14.049
L24	38.131	48.707	8516.229	13.207	19.108	445.692	17043.664	24.358	5.894	14.289
	39.056	49.900	9157.487	13.530	19.571	467.916	18327.024	24.955	6.054	14.677
L25	39.056	49.900	9157.487	13.530	19.571	467.916	18327.024	24.955	6.054	14.677
	40.676	51.989	10356.716	14.097	20.382	508.142	20727.059	26.000	6.335	15.358
L26	40.184	37.992	7042.027	13.598	19.617	358.980	14093.321	19.000	6.246	19.988
	40.369	39.170	7717.470	14.019	20.220	381.676	15445.095	19.589	6.455	20.657
L27	40.369	39.170	7717.470	14.019	20.220	381.676	15445.095	19.589	6.455	20.657
	41.294	40.073	8264.002	14.343	20.683	399.560	16538.877	20.040	6.616	21.17
L28	41.294	40.073	8264.002	14.343	20.683	399.560	16538.877	20.040	6.616	21.17
	42.219	40.977	8835.745	14.666	21.146	417.853	17683.117	20.492	6.776	21.683
L29	42.219	40.977	8835.745	14.666	21.146	417.853	17683.117	20.492	6.776	21.683
	43.144	41.881	9433.270	14.989	21.608	436.556	18878.952	20.944	6.936	22.196
L30	43.144	41.881	9433.270	14.989	21.608	436.556	18878.952	20.944	6.936	22.196
	44.069	42.784	10057.143	15.313	22.071	455.669	20127.520	21.396	7.097	22.709
L31	44.069	42.784	10057.143	15.313	22.071	455.669	20127.520	21.396	7.097	22.709
	44.993	43.687	10707.004	15.636	22.533	475.163	21428.097	21.847	7.257	23.222
L32	44.945	86.753	20961.431	15.525	22.533	930.241	41950.443	43.385	6.707	10.731
	44.991	86.844	21026.999	15.541	22.556	932.194	42081.667	43.430	6.715	10.744
L33	44.993	85.131	20624.116	15.545	22.556	914.333	41275.370	42.574	6.737	10.999
	45.918	86.902	21938.305	15.869	23.019	953.041	43905.477	43.459	6.897	11.261
L34	45.918	86.902	21938.305	15.869	23.019	953.041	43905.477	43.459	6.897	11.261
	46.843	88.673	23307.168	16.192	23.482	992.551	46645.004	44.345	7.058	11.522
L35	46.843	88.673	23307.168	16.192	23.482	992.551	46645.004	44.345	7.058	11.522
	47.167	89.293	23799.393	16.305	23.644	1006.570	47630.102	44.655	7.114	11.614
L36	47.169	87.495	23332.731	16.310	23.644	986.833	46696.164	43.756	7.136	11.893
	47.215	87.581	23402.201	16.326	23.667	988.803	46835.195	43.799	7.144	11.906
L37	47.217	85.780	22933.345	16.331	23.667	968.993	45896.866	42.898	7.166	12.197
	48.142	87.479	24323.047	16.654	24.130	1008.000	48678.099	43.748	7.326	12.47

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L1 149.00-144.00				1	1	1			
L2 144.00-139.00				1	1	1			
L3 139.00-134.00				1	1	1			
L4 134.00-129.00				1	1	1			
L5 129.00-123.61				1	1	1			
L6 123.61-122.39				1	1	1			
L7 122.39-117.39				1	1	1			
L8 117.39-112.39				1	1	1			
L9 112.39-107.39				1	1	1			
L10 107.39-102.39				1	1	1			
L11 102.39-98.50				1	1	1			
L12 98.50-98.25				1	1	0.959145			

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L13 98.25-93.25				1	1	0.964288			
L14 93.25-88.25				1	1	0.970367			
L15 88.25-79.13				1	1	0.96048			
L16 79.13-78.13				1	1	1			
L17 78.13-73.13				1	1	1			
L18 73.13-69.92				1	1	1			
L19 69.92-69.67				1	1	0.944901			
L20 69.67-64.67				1	1	0.957152			
L21 64.67-59.67				1	1	0.946102			
L22 59.67-57.25				1	1	0.953008			
L23 57.25-57.00				1	1	0.963839			
L24 57.00-52.00				1	1	0.969379			
L25 52.00-43.24				1	1	0.963836			
L26 43.24-42.24				1	1	1			
L27 42.24-37.24				1	1	1			
L28 37.24-32.24				1	1	1			
L29 32.24-27.24				1	1	1			
L30 27.24-22.24				1	1	1			
L31 22.24-17.25				1	1	1			
L32 17.25-17.00				1	1	0.964184			
L33 17.00-12.00				1	1	0.973933			
L34 12.00-7.00				1	1	0.96467			
L35 7.00-5.25				1	1	0.961515			
L36 5.25-5.00				1	1	0.926587			
L37 5.00-0.00				1	1	0.938002			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
****										
CCI-AFP-060100	A	No	Surface Af (CaAa)	59.75 - 44.75	1	1	0.100 0.250	6.000	14.000	0.00
CCI-AFP-060100	B	No	Surface Af	59.75 -	1	1	0.100	6.000	14.000	0.00

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
			(CaAa)	44.75			0.250			
CCI-AFP-060100	C	No	Surface Af (CaAa)	59.75 - 44.75	1	1	0.100 0.250	6.000	14.000	0.00
***										
CCI-AFP-045100	A	No	Surface Af (CaAa)	100.50 - 80.50	1	1	0.300 0.400	4.500	11.000	0.00
CCI-AFP-045100	B	No	Surface Af (CaAa)	100.50 - 80.50	1	1	0.300 0.400	4.500	11.000	0.00
CCI-AFP-045100	C	No	Surface Af (CaAa)	100.50 - 80.50	1	1	0.300 0.400	4.500	11.000	0.00
********										
CCI-65FP-080125	A	No	Surface Af (CaAa)	21.25 - 1.25	1	1	0.250 0.400	8.000	18.500	0.00
CCI-65FP-080125	B	No	Surface Af (CaAa)	21.25 - 1.25	1	1	-0.075 0.075	8.000	18.500	0.00
CCI-65FP-080125	C	No	Surface Af (CaAa)	21.25 - 1.25	1	1	-0.250 -0.100	8.000	18.500	0.00
CCI-65FP-080125	C	No	Surface Af (CaAa)	21.25 - 1.25	1	1	0.350 0.500	8.000	18.500	0.00
***										
CCI-65FP-065125	A	No	Surface Af (CaAa)	73.42 - 53.42	1	1	-0.075 0.075	6.500	15.500	0.00
CCI-65FP-065125	B	No	Surface Af (CaAa)	73.42 - 53.42	1	1	-0.075 0.075	6.500	15.500	0.00
CCI-65FP-065125	C	No	Surface Af (CaAa)	73.42 - 53.42	1	1	-0.075 0.075	6.500	15.500	0.00
***										
**										
*										

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight plf
HB158-21U6S24-xxM_TMO(1-5/8)	A	No	No	Inside Pole	140.00 - 0.00	3	No Ice	0.00	2.50
							1/2'' Ice	0.00	2.50
							1'' Ice	0.00	2.50
							2'' Ice	0.00	2.50
***									
HB158-1-13U6-S6F18 (1-5/8'')	C	No	No	Inside Pole	130.00 - 0.00	2	No Ice	0.00	1.90
							1/2'' Ice	0.00	1.90
							1'' Ice	0.00	1.90
							2'' Ice	0.00	1.90
***									
LDF6-50A(1-1/4)	B	No	No	Inside Pole	149.00 - 0.00	6	No Ice	0.00	0.60
							1/2'' Ice	0.00	0.60
							1'' Ice	0.00	0.60
							2'' Ice	0.00	0.60
FB-L98B-034-XXX(3/8)	B	No	No	Inside Pole	149.00 - 0.00	1	No Ice	0.00	0.06
							1/2'' Ice	0.00	0.06
							1'' Ice	0.00	0.06
							2'' Ice	0.00	0.06
WR-VG66ST-BRD(7/8)	B	No	No	Inside Pole	149.00 - 0.00	2	No Ice	0.00	0.91
							1/2'' Ice	0.00	0.91
							1'' Ice	0.00	0.91
							2'' Ice	0.00	0.91
***									

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight plf
CU12PSM9P6XXX(1-1/2)	C	No	No	Inside Pole	120.00 - 0.00	1	No Ice	0.00	2.35
							1/2'' Ice	0.00	2.35
							1'' Ice	0.00	2.35
							2'' Ice	0.00	2.35
***									
**									
*									

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	149.00-144.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.03
		C	0.000	0.000	0.000	0.000	0.00
L2	144.00-139.00	A	0.000	0.000	0.000	0.000	0.01
		B	0.000	0.000	0.000	0.000	0.03
		C	0.000	0.000	0.000	0.000	0.00
L3	139.00-134.00	A	0.000	0.000	0.000	0.000	0.04
		B	0.000	0.000	0.000	0.000	0.03
		C	0.000	0.000	0.000	0.000	0.00
L4	134.00-129.00	A	0.000	0.000	0.000	0.000	0.04
		B	0.000	0.000	0.000	0.000	0.03
		C	0.000	0.000	0.000	0.000	0.00
L5	129.00-123.61	A	0.000	0.000	0.000	0.000	0.04
		B	0.000	0.000	0.000	0.000	0.03
		C	0.000	0.000	0.000	0.000	0.02
L6	123.61-122.39	A	0.000	0.000	0.000	0.000	0.01
		B	0.000	0.000	0.000	0.000	0.01
		C	0.000	0.000	0.000	0.000	0.00
L7	122.39-117.39	A	0.000	0.000	0.000	0.000	0.04
		B	0.000	0.000	0.000	0.000	0.03
		C	0.000	0.000	0.000	0.000	0.03
L8	117.39-112.39	A	0.000	0.000	0.000	0.000	0.04
		B	0.000	0.000	0.000	0.000	0.03
		C	0.000	0.000	0.000	0.000	0.03
L9	112.39-107.39	A	0.000	0.000	0.000	0.000	0.04
		B	0.000	0.000	0.000	0.000	0.03
		C	0.000	0.000	0.000	0.000	0.03
L10	107.39-102.39	A	0.000	0.000	0.000	0.000	0.04
		B	0.000	0.000	0.000	0.000	0.03
		C	0.000	0.000	0.000	0.000	0.03
L11	102.39-98.50	A	0.000	0.000	1.500	0.000	0.03
		B	0.000	0.000	1.500	0.000	0.02
		C	0.000	0.000	1.500	0.000	0.02
L12	98.50-98.25	A	0.000	0.000	0.188	0.000	0.00
		B	0.000	0.000	0.188	0.000	0.00
		C	0.000	0.000	0.188	0.000	0.00
L13	98.25-93.25	A	0.000	0.000	3.750	0.000	0.04
		B	0.000	0.000	3.750	0.000	0.03
		C	0.000	0.000	3.750	0.000	0.03
L14	93.25-88.25	A	0.000	0.000	3.750	0.000	0.04
		B	0.000	0.000	3.750	0.000	0.03
		C	0.000	0.000	3.750	0.000	0.03
L15	88.25-79.13	A	0.000	0.000	5.812	0.000	0.07

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		B	0.000	0.000	5.812	0.000	0.05
		C	0.000	0.000	5.812	0.000	0.06
L16	79.13-78.13	A	0.000	0.000	0.000	0.000	0.01
		B	0.000	0.000	0.000	0.000	0.01
		C	0.000	0.000	0.000	0.000	0.01
L17	78.13-73.13	A	0.000	0.000	0.316	0.000	0.04
		B	0.000	0.000	0.316	0.000	0.03
		C	0.000	0.000	0.316	0.000	0.03
L18	73.13-69.92	A	0.000	0.000	3.475	0.000	0.02
		B	0.000	0.000	3.475	0.000	0.02
		C	0.000	0.000	3.475	0.000	0.02
L19	69.92-69.67	A	0.000	0.000	0.271	0.000	0.00
		B	0.000	0.000	0.271	0.000	0.00
		C	0.000	0.000	0.271	0.000	0.00
L20	69.67-64.67	A	0.000	0.000	5.417	0.000	0.04
		B	0.000	0.000	5.417	0.000	0.03
		C	0.000	0.000	5.417	0.000	0.03
L21	64.67-59.67	A	0.000	0.000	5.497	0.000	0.04
		B	0.000	0.000	5.497	0.000	0.03
		C	0.000	0.000	5.497	0.000	0.03
L22	59.67-57.25	A	0.000	0.000	5.042	0.000	0.02
		B	0.000	0.000	5.042	0.000	0.01
		C	0.000	0.000	5.042	0.000	0.01
L23	57.25-57.00	A	0.000	0.000	0.521	0.000	0.00
		B	0.000	0.000	0.521	0.000	0.00
		C	0.000	0.000	0.521	0.000	0.00
L24	57.00-52.00	A	0.000	0.000	8.878	0.000	0.04
		B	0.000	0.000	8.878	0.000	0.03
		C	0.000	0.000	8.878	0.000	0.03
L25	52.00-43.24	A	0.000	0.000	7.250	0.000	0.07
		B	0.000	0.000	7.250	0.000	0.05
		C	0.000	0.000	7.250	0.000	0.05
L26	43.24-42.24	A	0.000	0.000	0.000	0.000	0.01
		B	0.000	0.000	0.000	0.000	0.01
		C	0.000	0.000	0.000	0.000	0.01
L27	42.24-37.24	A	0.000	0.000	0.000	0.000	0.04
		B	0.000	0.000	0.000	0.000	0.03
		C	0.000	0.000	0.000	0.000	0.03
L28	37.24-32.24	A	0.000	0.000	0.000	0.000	0.04
		B	0.000	0.000	0.000	0.000	0.03
		C	0.000	0.000	0.000	0.000	0.03
L29	32.24-27.24	A	0.000	0.000	0.000	0.000	0.04
		B	0.000	0.000	0.000	0.000	0.03
		C	0.000	0.000	0.000	0.000	0.03
L30	27.24-22.24	A	0.000	0.000	0.000	0.000	0.04
		B	0.000	0.000	0.000	0.000	0.03
		C	0.000	0.000	0.000	0.000	0.03
L31	22.24-17.25	A	0.000	0.000	5.333	0.000	0.04
		B	0.000	0.000	5.333	0.000	0.03
		C	0.000	0.000	10.667	0.000	0.03
L32	17.25-17.00	A	0.000	0.000	0.333	0.000	0.00
		B	0.000	0.000	0.333	0.000	0.00
		C	0.000	0.000	0.667	0.000	0.00
L33	17.00-12.00	A	0.000	0.000	6.667	0.000	0.04
		B	0.000	0.000	6.667	0.000	0.03
		C	0.000	0.000	13.333	0.000	0.03
L34	12.00-7.00	A	0.000	0.000	6.667	0.000	0.04
		B	0.000	0.000	6.667	0.000	0.03
		C	0.000	0.000	13.333	0.000	0.03
L35	7.00-5.25	A	0.000	0.000	2.333	0.000	0.01
		B	0.000	0.000	2.333	0.000	0.01
		C	0.000	0.000	4.667	0.000	0.01

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L36	5.25-5.00	A	0.000	0.000	0.333	0.000	0.00
		B	0.000	0.000	0.333	0.000	0.00
		C	0.000	0.000	0.667	0.000	0.00
L37	5.00-0.00	A	0.000	0.000	5.000	0.000	0.04
		B	0.000	0.000	5.000	0.000	0.03
		C	0.000	0.000	10.000	0.000	0.03

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	149.00-144.00	A	1.480	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.03
		C		0.000	0.000	0.000	0.000	0.00
L2	144.00-139.00	A	1.475	0.000	0.000	0.000	0.000	0.01
		B		0.000	0.000	0.000	0.000	0.03
		C		0.000	0.000	0.000	0.000	0.00
L3	139.00-134.00	A	1.469	0.000	0.000	0.000	0.000	0.04
		B		0.000	0.000	0.000	0.000	0.03
		C		0.000	0.000	0.000	0.000	0.00
L4	134.00-129.00	A	1.464	0.000	0.000	0.000	0.000	0.04
		B		0.000	0.000	0.000	0.000	0.03
		C		0.000	0.000	0.000	0.000	0.00
L5	129.00-123.61	A	1.458	0.000	0.000	0.000	0.000	0.04
		B		0.000	0.000	0.000	0.000	0.03
		C		0.000	0.000	0.000	0.000	0.02
L6	123.61-122.39	A	1.454	0.000	0.000	0.000	0.000	0.01
		B		0.000	0.000	0.000	0.000	0.01
		C		0.000	0.000	0.000	0.000	0.00
L7	122.39-117.39	A	1.451	0.000	0.000	0.000	0.000	0.04
		B		0.000	0.000	0.000	0.000	0.03
		C		0.000	0.000	0.000	0.000	0.03
L8	117.39-112.39	A	1.444	0.000	0.000	0.000	0.000	0.04
		B		0.000	0.000	0.000	0.000	0.03
		C		0.000	0.000	0.000	0.000	0.03
L9	112.39-107.39	A	1.438	0.000	0.000	0.000	0.000	0.04
		B		0.000	0.000	0.000	0.000	0.03
		C		0.000	0.000	0.000	0.000	0.03
L10	107.39-102.39	A	1.431	0.000	0.000	0.000	0.000	0.04
		B		0.000	0.000	0.000	0.000	0.03
		C		0.000	0.000	0.000	0.000	0.03
L11	102.39-98.50	A	1.425	0.000	0.000	2.070	0.000	0.05
		B		0.000	0.000	2.070	0.000	0.04
		C		0.000	0.000	2.070	0.000	0.04
L12	98.50-98.25	A	1.422	0.000	0.000	0.259	0.000	0.00
		B		0.000	0.000	0.259	0.000	0.00
		C		0.000	0.000	0.259	0.000	0.00
L13	98.25-93.25	A	1.418	0.000	0.000	5.168	0.000	0.08
		B		0.000	0.000	5.168	0.000	0.07
		C		0.000	0.000	5.168	0.000	0.08
L14	93.25-88.25	A	1.411	0.000	0.000	5.161	0.000	0.08
		B		0.000	0.000	5.161	0.000	0.07
		C		0.000	0.000	5.161	0.000	0.08
L15	88.25-79.13	A	1.399	0.000	0.000	7.981	0.000	0.14
		B		0.000	0.000	7.981	0.000	0.12
		C		0.000	0.000	7.981	0.000	0.12
L16	79.13-78.13	A	1.391	0.000	0.000	0.000	0.000	0.01
		B		0.000	0.000	0.000	0.000	0.01
		C		0.000	0.000	0.000	0.000	0.01

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L17	78.13-73.13	A	1.385	0.000	0.000	0.397	0.000	0.04
		B		0.000	0.000	0.397	0.000	0.03
		C		0.000	0.000	0.397	0.000	0.03
L18	73.13-69.92	A	1.378	0.000	0.000	4.359	0.000	0.06
		B		0.000	0.000	4.359	0.000	0.05
		C		0.000	0.000	4.359	0.000	0.06
L19	69.92-69.67	A	1.374	0.000	0.000	0.340	0.000	0.00
		B		0.000	0.000	0.340	0.000	0.00
		C		0.000	0.000	0.340	0.000	0.00
L20	69.67-64.67	A	1.369	0.000	0.000	6.786	0.000	0.09
		B		0.000	0.000	6.786	0.000	0.08
		C		0.000	0.000	6.786	0.000	0.09
L21	64.67-59.67	A	1.358	0.000	0.000	6.872	0.000	0.09
		B		0.000	0.000	6.872	0.000	0.08
		C		0.000	0.000	6.872	0.000	0.09
L22	59.67-57.25	A	1.350	0.000	0.000	6.220	0.000	0.07
		B		0.000	0.000	6.220	0.000	0.06
		C		0.000	0.000	6.220	0.000	0.07
L23	57.25-57.00	A	1.347	0.000	0.000	0.642	0.000	0.01
		B		0.000	0.000	0.642	0.000	0.01
		C		0.000	0.000	0.642	0.000	0.01
L24	57.00-52.00	A	1.341	0.000	0.000	10.917	0.000	0.13
		B		0.000	0.000	10.917	0.000	0.12
		C		0.000	0.000	10.917	0.000	0.12
L25	52.00-43.24	A	1.323	0.000	0.000	8.801	0.000	0.14
		B		0.000	0.000	8.801	0.000	0.12
		C		0.000	0.000	8.801	0.000	0.12
L26	43.24-42.24	A	1.308	0.000	0.000	0.000	0.000	0.01
		B		0.000	0.000	0.000	0.000	0.01
		C		0.000	0.000	0.000	0.000	0.01
L27	42.24-37.24	A	1.299	0.000	0.000	0.000	0.000	0.04
		B		0.000	0.000	0.000	0.000	0.03
		C		0.000	0.000	0.000	0.000	0.03
L28	37.24-32.24	A	1.282	0.000	0.000	0.000	0.000	0.04
		B		0.000	0.000	0.000	0.000	0.03
		C		0.000	0.000	0.000	0.000	0.03
L29	32.24-27.24	A	1.262	0.000	0.000	0.000	0.000	0.04
		B		0.000	0.000	0.000	0.000	0.03
		C		0.000	0.000	0.000	0.000	0.03
L30	27.24-22.24	A	1.239	0.000	0.000	0.000	0.000	0.04
		B		0.000	0.000	0.000	0.000	0.03
		C		0.000	0.000	0.000	0.000	0.03
L31	22.24-17.25	A	1.211	0.000	0.000	6.256	0.000	0.08
		B		0.000	0.000	6.256	0.000	0.07
		C		0.000	0.000	12.513	0.000	0.12
L32	17.25-17.00	A	1.194	0.000	0.000	0.391	0.000	0.00
		B		0.000	0.000	0.391	0.000	0.00
		C		0.000	0.000	0.781	0.000	0.01
L33	17.00-12.00	A	1.174	0.000	0.000	7.802	0.000	0.09
		B		0.000	0.000	7.802	0.000	0.08
		C		0.000	0.000	15.604	0.000	0.14
L34	12.00-7.00	A	1.126	0.000	0.000	7.759	0.000	0.09
		B		0.000	0.000	7.759	0.000	0.08
		C		0.000	0.000	15.518	0.000	0.13
L35	7.00-5.25	A	1.077	0.000	0.000	2.701	0.000	0.03
		B		0.000	0.000	2.701	0.000	0.03
		C		0.000	0.000	5.402	0.000	0.04
L36	5.25-5.00	A	1.058	0.000	0.000	0.385	0.000	0.00
		B		0.000	0.000	0.385	0.000	0.00
		C		0.000	0.000	0.770	0.000	0.01
L37	5.00-0.00	A	0.985	0.000	0.000	5.725	0.000	0.07
		B		0.000	0.000	5.725	0.000	0.06

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		C		0.000	0.000	11.451	0.000	0.09

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
L1	149.00-144.00	0.000	0.000	0.000	0.000
L2	144.00-139.00	0.000	0.000	0.000	0.000
L3	139.00-134.00	0.000	0.000	0.000	0.000
L4	134.00-129.00	0.000	0.000	0.000	0.000
L5	129.00-123.61	0.000	0.000	0.000	0.000
L6	123.61-122.39	0.000	0.000	0.000	0.000
L7	122.39-117.39	0.000	0.000	0.000	0.000
L8	117.39-112.39	0.000	0.000	0.000	0.000
L9	112.39-107.39	0.000	0.000	0.000	0.000
L10	107.39-102.39	0.000	0.000	0.000	0.000
L11	102.39-98.50	0.000	0.000	0.000	0.000
L12	98.50-98.25	0.000	0.000	0.000	0.000
L13	98.25-93.25	0.000	0.000	0.000	0.000
L14	93.25-88.25	0.000	0.000	0.000	0.000
L15	88.25-79.13	0.000	0.000	0.000	0.000
L16	79.13-78.13	0.000	0.000	0.000	0.000
L17	78.13-73.13	0.000	0.000	0.000	0.000
L18	73.13-69.92	0.000	0.000	0.000	0.000
L19	69.92-69.67	0.000	0.000	0.000	0.000
L20	69.67-64.67	0.000	0.000	0.000	0.000
L21	64.67-59.67	0.000	0.000	0.000	0.000
L22	59.67-57.25	0.000	0.000	0.000	0.000
L23	57.25-57.00	0.000	0.000	0.000	0.000
L24	57.00-52.00	0.000	0.000	0.000	0.000
L25	52.00-43.24	0.000	0.000	0.000	0.000
L26	43.24-42.24	0.000	0.000	0.000	0.000
L27	42.24-37.24	0.000	0.000	0.000	0.000
L28	37.24-32.24	0.000	0.000	0.000	0.000
L29	32.24-27.24	0.000	0.000	0.000	0.000
L30	27.24-22.24	0.000	0.000	0.000	0.000
L31	22.24-17.25	1.649	-2.982	1.391	-2.515
L32	17.25-17.00	1.797	-3.249	1.547	-2.796
L33	17.00-12.00	1.809	-3.272	1.556	-2.813
L34	12.00-7.00	1.833	-3.315	1.572	-2.842
L35	7.00-5.25	1.849	-3.345	1.581	-2.860
L36	5.25-5.00	1.854	-3.353	1.584	-2.865
L37	5.00-0.00	1.666	-3.013	1.379	-2.495

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

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L11	14	CCI-AFP-045100	98.50 - 100.50	1.0000	1.0000
L11	15	CCI-AFP-045100	98.50 - 100.50	1.0000	1.0000
L11	16	CCI-AFP-045100	98.50 - 100.50	1.0000	1.0000
L12	14	CCI-AFP-045100	98.25 - 98.50	1.0000	1.0000
L12	15	CCI-AFP-045100	98.25 - 98.50	1.0000	1.0000
L12	16	CCI-AFP-045100	98.25 - 98.50	1.0000	1.0000
L13	14	CCI-AFP-045100	93.25 - 98.25	1.0000	1.0000
L13	15	CCI-AFP-045100	93.25 - 98.25	1.0000	1.0000
L13	16	CCI-AFP-045100	93.25 - 98.25	1.0000	1.0000
L14	14	CCI-AFP-045100	88.25 - 93.25	1.0000	1.0000
L14	15	CCI-AFP-045100	88.25 - 93.25	1.0000	1.0000
L14	16	CCI-AFP-045100	88.25 - 93.25	1.0000	1.0000
L15	14	CCI-AFP-045100	80.50 - 88.25	1.0000	1.0000
L15	15	CCI-AFP-045100	80.50 - 88.25	1.0000	1.0000
L15	16	CCI-AFP-045100	80.50 - 88.25	1.0000	1.0000
L17	23	CCI-65FP-065125	73.13 - 73.42	1.0000	1.0000
L17	24	CCI-65FP-065125	73.13 - 73.42	1.0000	1.0000
L17	25	CCI-65FP-065125	73.13 - 73.42	1.0000	1.0000
L18	23	CCI-65FP-065125	69.92 - 73.13	1.0000	1.0000
L18	24	CCI-65FP-065125	69.92 - 73.13	1.0000	1.0000
L18	25	CCI-65FP-065125	69.92 - 73.13	1.0000	1.0000
L19	23	CCI-65FP-065125	69.67 - 69.92	1.0000	1.0000
L19	24	CCI-65FP-065125	69.67 - 69.92	1.0000	1.0000
L19	25	CCI-65FP-065125	69.67 - 69.92	1.0000	1.0000
L20	23	CCI-65FP-065125	64.67 - 69.67	1.0000	1.0000
L20	24	CCI-65FP-065125	64.67 - 69.67	1.0000	1.0000
L20	25	CCI-65FP-065125	64.67 - 69.67	1.0000	1.0000
L21	10	CCI-AFP-060100	59.67 - 59.75	1.0000	1.0000
L21	11	CCI-AFP-060100	59.67 - 59.75	1.0000	1.0000
L21	12	CCI-AFP-060100	59.67 - 59.75	1.0000	1.0000
L21	23	CCI-65FP-065125	59.67 - 64.67	1.0000	1.0000
L21	24	CCI-65FP-065125	59.67 - 64.67	1.0000	1.0000
L21	25	CCI-65FP-065125	59.67 - 64.67	1.0000	1.0000
L22	10	CCI-AFP-060100	57.25 - 59.67	1.0000	1.0000
L22	11	CCI-AFP-060100	57.25 - 59.67	1.0000	1.0000
L22	12	CCI-AFP-060100	57.25 - 59.67	1.0000	1.0000
L22	23	CCI-65FP-065125	57.25 - 59.67	1.0000	1.0000
L22	24	CCI-65FP-065125	57.25 - 59.67	1.0000	1.0000
L22	25	CCI-65FP-065125	57.25 - 59.67	1.0000	1.0000
L23	10	CCI-AFP-060100	57.00 - 57.25	1.0000	1.0000
L23	11	CCI-AFP-060100	57.00 - 57.25	1.0000	1.0000
L23	12	CCI-AFP-060100	57.00 - 57.25	1.0000	1.0000
L23	23	CCI-65FP-065125	57.00 - 57.25	1.0000	1.0000
L23	24	CCI-65FP-065125	57.00 - 57.25	1.0000	1.0000
L23	25	CCI-65FP-065125	57.00 - 57.25	1.0000	1.0000
L24	10	CCI-AFP-060100	52.00 - 57.00	1.0000	1.0000
L24	11	CCI-AFP-060100	52.00 - 57.00	1.0000	1.0000
L24	12	CCI-AFP-060100	52.00 - 57.00	1.0000	1.0000
L24	23	CCI-65FP-065125	53.42 - 57.00	1.0000	1.0000
L24	24	CCI-65FP-065125	53.42 - 57.00	1.0000	1.0000
L24	25	CCI-65FP-065125	53.42 - 57.00	1.0000	1.0000
L25	10	CCI-AFP-060100	44.75 - 52.00	1.0000	1.0000
L25	11	CCI-AFP-060100	44.75 - 52.00	1.0000	1.0000
L25	12	CCI-AFP-060100	44.75 - 52.00	1.0000	1.0000
L31	18	CCI-65FP-080125	17.25 - 21.25	1.0000	1.0000
L31	19	CCI-65FP-080125	17.25 - 21.25	1.0000	1.0000
L31	20	CCI-65FP-080125	17.25 - 21.25	1.0000	1.0000
L31	21	CCI-65FP-080125	17.25 - 21.25	1.0000	1.0000
L32	18	CCI-65FP-080125	17.00 - 17.25	1.0000	1.0000
L32	19	CCI-65FP-080125	17.00 - 17.25	1.0000	1.0000
L32	20	CCI-65FP-080125	17.00 - 17.25	1.0000	1.0000
L32	21	CCI-65FP-080125	17.00 - 17.25	1.0000	1.0000
L33	18	CCI-65FP-080125	12.00 - 17.00	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L33	19	CCI-65FP-080125	12.00 - 17.00	1.0000	1.0000
L33	20	CCI-65FP-080125	12.00 - 17.00	1.0000	1.0000
L33	21	CCI-65FP-080125	12.00 - 17.00	1.0000	1.0000
L34	18	CCI-65FP-080125	7.00 - 12.00	1.0000	1.0000
L34	19	CCI-65FP-080125	7.00 - 12.00	1.0000	1.0000
L34	20	CCI-65FP-080125	7.00 - 12.00	1.0000	1.0000
L34	21	CCI-65FP-080125	7.00 - 12.00	1.0000	1.0000
L35	18	CCI-65FP-080125	5.25 - 7.00	1.0000	1.0000
L35	19	CCI-65FP-080125	5.25 - 7.00	1.0000	1.0000
L35	20	CCI-65FP-080125	5.25 - 7.00	1.0000	1.0000
L35	21	CCI-65FP-080125	5.25 - 7.00	1.0000	1.0000
L36	18	CCI-65FP-080125	5.00 - 5.25	1.0000	1.0000
L36	19	CCI-65FP-080125	5.00 - 5.25	1.0000	1.0000
L36	20	CCI-65FP-080125	5.00 - 5.25	1.0000	1.0000
L36	21	CCI-65FP-080125	5.00 - 5.25	1.0000	1.0000
L37	18	CCI-65FP-080125	1.25 - 5.00	1.0000	1.0000
L37	19	CCI-65FP-080125	1.25 - 5.00	1.0000	1.0000
L37	20	CCI-65FP-080125	1.25 - 5.00	1.0000	1.0000
L37	21	CCI-65FP-080125	1.25 - 5.00	1.0000	1.0000

Effective Width of Flat Linear Attachments / Feed Lines

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L11	14	CCI-AFP-045100	98.50 - 100.50	Auto	0.0000
L11	15	CCI-AFP-045100	98.50 - 100.50	Auto	0.0000
L11	16	CCI-AFP-045100	98.50 - 100.50	Auto	0.0000
L12	14	CCI-AFP-045100	98.25 - 98.50	Auto	0.0000
L12	15	CCI-AFP-045100	98.25 - 98.50	Auto	0.0000
L12	16	CCI-AFP-045100	98.25 - 98.50	Auto	0.0000
L13	14	CCI-AFP-045100	93.25 - 98.25	Auto	0.0000
L13	15	CCI-AFP-045100	93.25 - 98.25	Auto	0.0000
L13	16	CCI-AFP-045100	93.25 - 98.25	Auto	0.0000
L14	14	CCI-AFP-045100	88.25 - 93.25	Auto	0.0000
L14	15	CCI-AFP-045100	88.25 - 93.25	Auto	0.0000
L14	16	CCI-AFP-045100	88.25 - 93.25	Auto	0.0000
L15	14	CCI-AFP-045100	80.50 - 88.25	Auto	0.0000
L15	15	CCI-AFP-045100	80.50 - 88.25	Auto	0.0000
L15	16	CCI-AFP-045100	80.50 - 88.25	Auto	0.0000
L17	23	CCI-65FP-065125	73.13 - 73.42	Auto	0.1295
L17	24	CCI-65FP-065125	73.13 - 73.42	Auto	0.1295
L17	25	CCI-65FP-065125	73.13 - 73.42	Auto	0.1295
L18	23	CCI-65FP-065125	69.92 - 73.13	Auto	0.1209
L18	24	CCI-65FP-065125	69.92 - 73.13	Auto	0.1209
L18	25	CCI-65FP-065125	69.92 - 73.13	Auto	0.1209
L19	23	CCI-65FP-065125	69.67 - 69.92	Auto	0.1801
L19	24	CCI-65FP-065125	69.67 - 69.92	Auto	0.1801
L19	25	CCI-65FP-065125	69.67 - 69.92	Auto	0.1801
L20	23	CCI-65FP-065125	64.67 - 69.67	Auto	0.1637
L20	24	CCI-65FP-065125	64.67 - 69.67	Auto	0.1637
L20	25	CCI-65FP-065125	64.67 - 69.67	Auto	0.1637
L21	10	CCI-AFP-060100	59.67 - 59.75	Auto	0.0541
L21	11	CCI-AFP-060100	59.67 - 59.75	Auto	0.0541
L21	12	CCI-AFP-060100	59.67 - 59.75	Auto	0.0541

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L21	23	CCI-65FP-065125	59.67 - 64.67	Auto	0.1390
L21	24	CCI-65FP-065125	59.67 - 64.67	Auto	0.1390
L21	25	CCI-65FP-065125	59.67 - 64.67	Auto	0.1390
L22	10	CCI-AFP-060100	57.25 - 59.67	Auto	0.0456
L22	11	CCI-AFP-060100	57.25 - 59.67	Auto	0.0456
L22	12	CCI-AFP-060100	57.25 - 59.67	Auto	0.0456
L22	23	CCI-65FP-065125	57.25 - 59.67	Auto	0.1190
L22	24	CCI-65FP-065125	57.25 - 59.67	Auto	0.1190
L22	25	CCI-65FP-065125	57.25 - 59.67	Auto	0.1190
L23	10	CCI-AFP-060100	57.00 - 57.25	Auto	0.0202
L23	11	CCI-AFP-060100	57.00 - 57.25	Auto	0.0202
L23	12	CCI-AFP-060100	57.00 - 57.25	Auto	0.0202
L23	23	CCI-65FP-065125	57.00 - 57.25	Auto	0.0955
L23	24	CCI-65FP-065125	57.00 - 57.25	Auto	0.0955
L23	25	CCI-65FP-065125	57.00 - 57.25	Auto	0.0955
L24	10	CCI-AFP-060100	52.00 - 57.00	Auto	0.0058
L24	11	CCI-AFP-060100	52.00 - 57.00	Auto	0.0058
L24	12	CCI-AFP-060100	52.00 - 57.00	Auto	0.0058
L24	23	CCI-65FP-065125	53.42 - 57.00	Auto	0.0844
L24	24	CCI-65FP-065125	53.42 - 57.00	Auto	0.0844
L24	25	CCI-65FP-065125	53.42 - 57.00	Auto	0.0844
L25	10	CCI-AFP-060100	44.75 - 52.00	Auto	0.0000
L25	11	CCI-AFP-060100	44.75 - 52.00	Auto	0.0000
L25	12	CCI-AFP-060100	44.75 - 52.00	Auto	0.0000
L31	18	CCI-65FP-080125	17.25 - 21.25	Auto	0.1009
L31	19	CCI-65FP-080125	17.25 - 21.25	Auto	0.1009
L31	20	CCI-65FP-080125	17.25 - 21.25	Auto	0.1009
L31	21	CCI-65FP-080125	17.25 - 21.25	Auto	0.1009
L32	18	CCI-65FP-080125	17.00 - 17.25	Auto	0.1611
L32	19	CCI-65FP-080125	17.00 - 17.25	Auto	0.1611
L32	20	CCI-65FP-080125	17.00 - 17.25	Auto	0.1611
L32	21	CCI-65FP-080125	17.00 - 17.25	Auto	0.1611
L33	18	CCI-65FP-080125	12.00 - 17.00	Auto	0.1479
L33	19	CCI-65FP-080125	12.00 - 17.00	Auto	0.1479
L33	20	CCI-65FP-080125	12.00 - 17.00	Auto	0.1479
L33	21	CCI-65FP-080125	12.00 - 17.00	Auto	0.1479
L34	18	CCI-65FP-080125	7.00 - 12.00	Auto	0.1278
L34	19	CCI-65FP-080125	7.00 - 12.00	Auto	0.1278
L34	20	CCI-65FP-080125	7.00 - 12.00	Auto	0.1278
L34	21	CCI-65FP-080125	7.00 - 12.00	Auto	0.1278
L35	18	CCI-65FP-080125	5.25 - 7.00	Auto	0.1143
L35	19	CCI-65FP-080125	5.25 - 7.00	Auto	0.1143
L35	20	CCI-65FP-080125	5.25 - 7.00	Auto	0.1143
L35	21	CCI-65FP-080125	5.25 - 7.00	Auto	0.1143
L36	18	CCI-65FP-080125	5.00 - 5.25	Auto	0.1075
L36	19	CCI-65FP-080125	5.00 - 5.25	Auto	0.1075
L36	20	CCI-65FP-080125	5.00 - 5.25	Auto	0.1075
L36	21	CCI-65FP-080125	5.00 - 5.25	Auto	0.1075
L37	18	CCI-65FP-080125	1.25 - 5.00	Auto	0.0968
L37	19	CCI-65FP-080125	1.25 - 5.00	Auto	0.0968
L37	20	CCI-65FP-080125	1.25 - 5.00	Auto	0.0968
L37	21	CCI-65FP-080125	1.25 - 5.00	Auto	0.0968

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft Vert ft ft	Azimuth Adjustment °	Placement ft
DMP65R-BU6D w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	149.00
DMP65R-BU6D w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	149.00
DMP65R-BU6D w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	149.00
HPA65R-BU6A w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	149.00
HPA65R-BU6A w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	149.00
HPA65R-BU6A w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	149.00
RRUS 4449 B5/B12	A	From Leg	4.00 0.00 0.00	0.0000	149.00
RRUS 4449 B5/B12	B	From Leg	4.00 0.00 0.00	0.0000	149.00
RRUS 4449 B5/B12	C	From Leg	4.00 0.00 0.00	0.0000	149.00
RRUS 8843 B2/B66A	A	From Leg	4.00 0.00 0.00	0.0000	149.00
RRUS 8843 B2/B66A	B	From Leg	4.00 0.00 0.00	0.0000	149.00
RRUS 8843 B2/B66A	C	From Leg	4.00 0.00 0.00	0.0000	149.00
DC6-48-60-18-8F	A	From Leg	4.00 0.00 0.00	0.0000	149.00
Sabre C10855721C 12' Platform Mount	C	None		0.0000	149.00
(2) 10' x 2'' Mount Pipe	A	From Leg	4.00 0.00 4.00	0.0000	149.00
(2) 10' x 2'' Mount Pipe	B	From Leg	4.00 0.00 4.00	0.0000	149.00
(2) 10' x 2'' Mount Pipe	C	From Leg	4.00 0.00 4.00	0.0000	149.00
*					
AIR 6419 B41_TMO_CCIV2 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	140.00
AIR 6419 B41_TMO_CCIV2 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	140.00
AIR 6419 B41_TMO_CCIV2 w/	C	From Leg	4.00	0.0000	140.00

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft Vert ft ft	Azimuth Adjustment °	Placement ft
Mount Pipe			0.00 0.00		
RADIO 4449 B71 B85A_T-MOBILE	A	From Leg	4.00 0.00 0.00	0.0000	140.00
RADIO 4449 B71 B85A_T-MOBILE	B	From Leg	4.00 0.00 0.00	0.0000	140.00
RADIO 4449 B71 B85A_T-MOBILE	C	From Leg	4.00 0.00 0.00	0.0000	140.00
RADIO 4460 B2/B25 B66_TMO	A	From Leg	4.00 0.00 0.00	0.0000	140.00
RADIO 4460 B2/B25 B66_TMO	B	From Leg	4.00 0.00 0.00	0.0000	140.00
RADIO 4460 B2/B25 B66_TMO	C	From Leg	4.00 0.00 0.00	0.0000	140.00
APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	140.00
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	140.00
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	140.00
site pro 1 RMQP-496 + HRK12	C	None		0.0000	140.00
(2) 8' x 2'' Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	140.00
(2) 8' x 2'' Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	140.00
(2) 8' x 2'' Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	140.00
* *					
BSF0020F3V1	A	From Leg	4.00 0.00 0.00	0.0000	130.00
BSF0020F3V1	B	From Leg	4.00 0.00 0.00	0.0000	130.00
(4) NHH-65B-R2B w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	130.00
(4) NHH-65B-R2B w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	130.00
(4) NHH-65B-R2B w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	130.00
DB-C1-12C-24AB-0Z	A	From Leg	4.00 0.00	0.0000	130.00

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft Vert ft ft	Azimuth Adjustment °	Placement ft
			0.00		
(2) RFV01U-D1A	A	From Leg	4.00 0.00 0.00	0.0000	130.00
(2) RFV01U-D1A	B	From Leg	4.00 0.00 0.00	0.0000	130.00
(2) RFV01U-D1A	C	From Leg	4.00 0.00 0.00	0.0000	130.00
(2) RFV01U-D2A	A	From Leg	4.00 0.00 0.00	0.0000	130.00
(2) RFV01U-D2A	B	From Leg	4.00 0.00 0.00	0.0000	130.00
(2) RFV01U-D2A	C	From Leg	4.00 0.00 0.00	0.0000	130.00
Site Pro1 RMV5-SQNP w/ PRK-SFS and HRK12	C	None		0.0000	130.00
(2) 10' horizontal x 2'' Pipe Mount	A	From Leg	3.00 0.00 2.00	0.0000	130.00
(2) 10' horizontal x 2'' Pipe Mount	B	From Leg	3.00 0.00 2.00	0.0000	130.00
(2) 10' horizontal x 2'' Pipe Mount	C	From Leg	3.00 0.00 2.00	0.0000	130.00
(2) Dual Antenna Bracket	A	From Leg	3.00 0.00 0.00	0.0000	130.00
(2) Dual Antenna Bracket	B	From Leg	3.00 0.00 0.00	0.0000	130.00
(2) Dual Antenna Bracket	C	From Leg	3.00 0.00 0.00	0.0000	130.00
*					
MX08FRO665-21 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	120.00
MX08FRO665-21 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	120.00
MX08FRO665-21 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	120.00
TA08025-B604	A	From Leg	4.00 0.00 0.00	0.0000	120.00
TA08025-B604	B	From Leg	4.00 0.00 0.00	0.0000	120.00
TA08025-B604	C	From Leg	4.00 0.00 0.00	0.0000	120.00

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
TA08025-B605	A	From Leg	4.00 0.00 0.00	90.0000	120.00
TA08025-B605	B	From Leg	4.00 0.00 0.00	90.0000	120.00
TA08025-B605	C	From Leg	4.00 0.00 0.00	90.0000	120.00
RDIDC-9181-PF-48	A	From Face	2.00 0.00 0.00	0.0000	120.00
Commscope MC-PK8-DSH	C	None		0.0000	120.00
3' Vertical x 3''x 3'' Angle Mount **	A	From Face	2.00 0.00 0.00	0.0000	120.00

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
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

Comb. No.	Description
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	149 - 144	Pole	Max Tension	26	0.00	-0.00	-0.00
			Max. Compression	26	-8.96	0.00	0.42
			Max. Mx	20	-3.87	25.77	0.10
			Max. My	2	-3.87	0.00	25.89
			Max. Vy	20	-4.92	25.77	0.10
			Max. Vx	2	-4.92	0.00	25.89
			Max. Torque	8			0.22
L2	144 - 139	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-16.95	0.00	0.43
			Max. Mx	20	-7.30	55.34	0.11
			Max. My	2	-7.30	0.01	55.47
			Max. Vy	20	-9.35	55.34	0.11
			Max. Vx	2	-9.35	0.01	55.47
			Max. Torque	8			0.22
L3	139 - 134	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-17.54	0.01	0.46
			Max. Mx	20	-7.63	103.03	0.13
			Max. My	2	-7.63	0.02	103.17
			Max. Vy	20	-9.73	103.03	0.13
			Max. Vx	2	-9.73	0.02	103.17
			Max. Torque	8			0.22
L4	134 - 129	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-27.17	-0.20	1.40
			Max. Mx	8	-11.10	-157.13	0.26
			Max. My	2	-11.09	-0.06	157.48
			Max. Vy	20	-14.11	156.93	0.32
			Max. Vx	2	-14.16	-0.06	157.48
			Max. Torque	8			0.86
L5	129 - 123.612	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-27.38	-0.20	1.42
			Max. Mx	8	-11.23	-179.97	0.24
			Max. My	2	-11.22	-0.04	180.39
			Max. Vy	20	-14.23	179.76	0.34
			Max. Vx	2	-14.28	-0.04	180.39
			Max. Torque	8			0.86
L6	123.612 -	Pole	Max Tension	1	0.00	0.00	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
	122.388						
			Max. Compression	26	-28.46	-0.19	1.45
			Max. Mx	8	-11.86	-252.17	0.19
			Max. My	2	-11.85	0.02	252.86
			Max. Vy	20	-14.65	251.97	0.42
			Max. Vx	2	-14.71	0.02	252.86
			Max. Torque	8			0.86
L7	122.388 - 117.388	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-34.56	0.34	1.79
			Max. Mx	20	-15.07	334.11	0.67
			Max. My	2	-15.06	0.36	335.12
			Max. Vy	20	-17.98	334.11	0.67
			Max. Vx	2	-18.02	0.36	335.12
			Max. Torque	8			0.98
L8	117.388 - 112.388	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-35.26	0.34	1.83
			Max. Mx	20	-15.58	424.83	0.82
			Max. My	2	-15.57	0.50	426.02
			Max. Vy	20	-18.32	424.83	0.82
			Max. Vx	2	-18.36	0.50	426.02
			Max. Torque	8			0.98
L9	112.388 - 107.388	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-35.98	0.35	1.86
			Max. Mx	20	-16.12	517.24	0.96
			Max. My	2	-16.11	0.63	518.62
			Max. Vy	20	-18.66	517.24	0.96
			Max. Vx	2	-18.70	0.63	518.62
			Max. Torque	8			0.98
L10	107.388 - 102.388	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-36.72	0.36	1.89
			Max. Mx	20	-16.68	611.32	1.10
			Max. My	2	-16.67	0.77	612.88
			Max. Vy	20	-18.99	611.32	1.10
			Max. Vx	2	-19.03	0.77	612.88
			Max. Torque	8			0.98
L11	102.388 - 98.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-37.36	0.36	1.90
			Max. Mx	20	-17.13	685.60	1.21
			Max. My	2	-17.13	0.87	687.30
			Max. Vy	20	-19.25	685.60	1.21
			Max. Vx	2	-19.29	0.87	687.30
			Max. Torque	8			0.98
L12	98.5 - 98.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-37.42	0.36	1.91
			Max. Mx	20	-17.19	690.41	1.22
			Max. My	2	-17.19	0.88	692.12
			Max. Vy	20	-19.25	690.41	1.22
			Max. Vx	2	-19.30	0.88	692.12
			Max. Torque	8			0.98
L13	98.25 - 93.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-38.60	0.36	1.93
			Max. Mx	20	-18.00	787.68	1.36
			Max. My	2	-17.99	1.01	789.57
			Max. Vy	20	-19.67	787.68	1.36
			Max. Vx	2	-19.70	1.01	789.57
			Max. Torque	8			0.98
L14	93.25 - 88.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-39.79	0.37	1.94

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Mx	20	-18.83	886.97	1.50
			Max. My	2	-18.82	1.15	889.04
			Max. Vy	20	-20.07	886.97	1.50
			Max. Vx	2	-20.11	1.15	889.04
			Max. Torque	8			0.98
L15	88.25 - 79.128	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-40.84	0.37	1.94
			Max. Mx	20	-19.57	975.53	1.62
			Max. My	2	-19.56	1.26	977.76
			Max. Vy	20	-20.42	975.53	1.62
			Max. Vx	2	-20.45	1.26	977.76
			Max. Torque	8			0.98
L16	79.128 - 78.128	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-42.97	0.37	1.94
			Max. Mx	20	-21.01	1094.35	1.78
			Max. My	2	-21.00	1.42	1096.79
			Max. Vy	20	-20.95	1094.35	1.78
			Max. Vx	2	-20.99	1.42	1096.79
			Max. Torque	8			0.98
L17	78.128 - 73.128	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-43.95	0.37	1.94
			Max. Mx	20	-21.79	1199.86	1.92
			Max. My	2	-21.79	1.55	1202.48
			Max. Vy	20	-21.29	1199.86	1.92
			Max. Vx	2	-21.32	1.55	1202.48
			Max. Torque	8			0.98
L18	73.128 - 69.92	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-44.69	0.37	1.94
			Max. Mx	20	-22.30	1268.44	2.01
			Max. My	2	-22.30	1.64	1271.17
			Max. Vy	20	-21.50	1268.44	2.01
			Max. Vx	2	-21.54	1.64	1271.17
			Max. Torque	8			0.97
L19	69.92 - 69.67	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-44.77	0.37	1.95
			Max. Mx	20	-22.38	1273.81	2.01
			Max. My	2	-22.38	1.64	1276.56
			Max. Vy	20	-21.51	1273.81	2.01
			Max. Vx	2	-21.55	1.64	1276.56
			Max. Torque	8			0.97
L20	69.67 - 64.67	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-46.43	0.37	1.94
			Max. Mx	20	-23.61	1382.42	2.15
			Max. My	2	-23.61	1.77	1385.34
			Max. Vy	20	-21.95	1382.42	2.15
			Max. Vx	2	-21.98	1.77	1385.34
			Max. Torque	8			0.97
L21	64.67 - 59.67	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-48.11	0.37	1.94
			Max. Mx	20	-24.86	1493.19	2.29
			Max. My	2	-24.86	1.91	1496.29
			Max. Vy	20	-22.38	1493.19	2.29
			Max. Vx	2	-22.42	1.91	1496.29
			Max. Torque	8			0.97
L22	59.67 - 57.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-49.00	0.37	1.94
			Max. Mx	20	-25.48	1547.57	2.35
			Max. My	2	-25.47	1.97	1550.76
			Max. Vy	20	-22.59	1547.57	2.35
			Max. Vx	2	-22.62	1.97	1550.76

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Torque	8			0.97
L23	57.25 - 57	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-49.09	0.37	1.95
			Max. Mx	20	-25.54	1553.22	2.36
			Max. My	2	-25.54	1.98	1556.42
			Max. Vy	20	-22.60	1553.22	2.36
			Max. Vx	2	-22.64	1.98	1556.42
			Max. Torque	8			0.97
L24	57 - 52	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-50.77	0.37	1.94
			Max. Mx	20	-26.71	1667.19	2.49
			Max. My	2	-26.70	2.11	1670.56
			Max. Vy	20	-23.00	1667.19	2.49
			Max. Vx	2	-23.04	2.11	1670.56
			Max. Torque	8			0.97
L25	52 - 43.243	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-51.78	0.37	1.94
			Max. Mx	20	-27.47	1742.09	2.58
			Max. My	2	-27.47	2.19	1745.58
			Max. Vy	20	-23.26	1742.09	2.58
			Max. Vx	2	-23.29	2.19	1745.58
			Max. Torque	8			0.97
L26	43.243 - 42.243	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-55.00	0.37	1.94
			Max. Mx	20	-29.83	1895.56	2.75
			Max. My	2	-29.83	2.36	1899.28
			Max. Vy	20	-23.85	1895.56	2.75
			Max. Vx	2	-23.88	2.36	1899.28
			Max. Torque	8			0.97
L27	42.243 - 37.243	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-56.26	0.37	1.94
			Max. Mx	20	-30.88	2015.47	2.88
			Max. My	2	-30.88	2.49	2019.37
			Max. Vy	20	-24.15	2015.47	2.88
			Max. Vx	2	-24.19	2.49	2019.37
			Max. Torque	8			0.97
L28	37.243 - 32.243	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-57.54	0.37	1.94
			Max. Mx	20	-31.96	2136.89	3.01
			Max. My	2	-31.95	2.62	2140.96
			Max. Vy	20	-24.45	2136.89	3.01
			Max. Vx	2	-24.48	2.62	2140.96
			Max. Torque	8			0.97
L29	32.243 - 27.243	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-58.84	0.37	1.94
			Max. Mx	20	-33.05	2259.74	3.14
			Max. My	2	-33.05	2.75	2263.99
			Max. Vy	20	-24.73	2259.74	3.14
			Max. Vx	2	-24.76	2.75	2263.99
			Max. Torque	8			0.97
L30	27.243 - 22.243	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-60.15	0.37	1.94
			Max. Mx	20	-34.17	2383.94	3.27
			Max. My	2	-34.17	2.88	2388.36
			Max. Vy	20	-24.99	2383.94	3.27
			Max. Vx	2	-25.03	2.88	2388.36
			Max. Torque	8			0.97

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L31	22.243 - 17.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-61.66	0.38	1.91
			Max. Mx	20	-35.30	2509.23	3.40
			Max. My	2	-35.30	3.00	2513.82
			Max. Vy	20	-25.24	2509.23	3.40
			Max. Vx	2	-25.27	3.00	2513.82
			Max. Torque	8			0.97
L32	17.25 - 17	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-61.78	0.38	1.91
			Max. Mx	20	-35.41	2515.53	3.40
			Max. My	2	-35.41	3.01	2520.13
			Max. Vy	20	-25.23	2515.53	3.40
			Max. Vx	2	-25.27	3.01	2520.13
			Max. Torque	8			0.97
L33	17 - 12	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-64.15	0.40	1.86
			Max. Mx	20	-37.31	2642.48	3.53
			Max. My	2	-37.30	3.14	2647.25
			Max. Vy	20	-25.56	2642.48	3.53
			Max. Vx	2	-25.60	3.14	2647.25
			Max. Torque	8			0.97
L34	12 - 7	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-66.52	0.42	1.81
			Max. Mx	20	-39.22	2771.03	3.65
			Max. My	2	-39.22	3.26	2775.97
			Max. Vy	20	-25.88	2771.03	3.65
			Max. Vx	2	-25.92	3.26	2775.97
			Max. Torque	8			0.97
L35	7 - 5.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-67.34	0.42	1.80
			Max. Mx	20	-39.89	2816.41	3.69
			Max. My	2	-39.89	3.30	2821.40
			Max. Vy	20	-26.00	2816.41	3.69
			Max. Vx	2	-26.04	3.30	2821.40
			Max. Torque	8			0.97
L36	5.25 - 5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-67.46	0.42	1.80
			Max. Mx	20	-40.00	2822.90	3.70
			Max. My	2	-40.00	3.31	2827.91
			Max. Vy	20	-26.00	2822.90	3.70
			Max. Vx	2	-26.04	3.31	2827.91
			Max. Torque	8			0.97
L37	5 - 0	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-69.65	0.43	1.77
			Max. Mx	20	-41.85	2953.69	3.82
			Max. My	2	-41.84	3.43	2958.86
			Max. Vy	20	-26.33	2953.69	3.82
			Max. Vx	2	-26.36	3.43	2958.86
			Max. Torque	8			0.97

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	26	69.65	0.00	0.00
	Max. H_x	21	31.39	26.31	0.02
	Max. H_z	2	41.85	0.02	26.35
	Max. M_x	2	2958.86	0.02	26.35

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
	Max. M_z	8	2953.35	-26.31	-0.02
	Max. Torsion	8	0.97	-26.31	-0.02
	Min. Vert	25	31.39	13.18	22.83
	Min. H_x	9	31.39	-26.31	-0.02
	Min. H_z	14	41.85	-0.02	-26.35
	Min. M_x	14	-2957.72	-0.02	-26.35
	Min. M_z	20	-2953.69	26.31	0.02
	Min. Torsion	20	-0.97	26.31	0.02

Tower Mast Reaction Summary

Load Combination	Vertical K	$Shear_x$ K	$Shear_z$ K	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
Dead Only	34.88	0.00	0.00	-0.42	0.13	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	41.85	-0.02	-26.35	-2958.86	3.43	-0.15
0.9 Dead+1.0 Wind 0 deg - No Ice	31.39	-0.02	-26.35	-2909.95	3.33	-0.16
1.2 Dead+1.0 Wind 30 deg - No Ice	41.85	13.14	-22.80	-2560.91	-1473.77	-0.61
0.9 Dead+1.0 Wind 30 deg - No Ice	31.39	13.14	-22.80	-2518.56	-1449.52	-0.62
1.2 Dead+1.0 Wind 60 deg - No Ice	41.85	22.78	-13.15	-1476.90	-2556.03	-0.91
0.9 Dead+1.0 Wind 60 deg - No Ice	31.39	22.78	-13.15	-1452.41	-2513.95	-0.91
1.2 Dead+1.0 Wind 90 deg - No Ice	41.85	26.31	0.02	2.71	-2953.35	-0.97
0.9 Dead+1.0 Wind 90 deg - No Ice	31.39	26.31	0.02	2.81	-2904.72	-0.96
1.2 Dead+1.0 Wind 120 deg - No Ice	41.85	22.80	13.19	1481.42	-2559.26	-0.77
0.9 Dead+1.0 Wind 120 deg - No Ice	31.39	22.80	13.19	1457.15	-2517.13	-0.75
1.2 Dead+1.0 Wind 150 deg - No Ice	41.85	13.18	22.83	2563.02	-1479.40	-0.36
0.9 Dead+1.0 Wind 150 deg - No Ice	31.39	13.18	22.83	2520.92	-1455.06	-0.34
1.2 Dead+1.0 Wind 180 deg - No Ice	41.85	0.02	26.35	2957.72	-3.10	0.15
0.9 Dead+1.0 Wind 180 deg - No Ice	31.39	0.02	26.35	2909.12	-3.09	0.16
1.2 Dead+1.0 Wind 210 deg - No Ice	41.85	-13.14	22.80	2559.78	1474.09	0.61
0.9 Dead+1.0 Wind 210 deg - No Ice	31.39	-13.14	22.80	2517.73	1449.75	0.62
1.2 Dead+1.0 Wind 240 deg - No Ice	41.85	-22.78	13.15	1475.78	2556.36	0.91
0.9 Dead+1.0 Wind 240 deg - No Ice	31.39	-22.78	13.15	1451.60	2514.19	0.91
1.2 Dead+1.0 Wind 270 deg - No Ice	41.85	-26.31	-0.02	-3.82	2953.69	0.97
0.9 Dead+1.0 Wind 270 deg - No Ice	31.39	-26.31	-0.02	-3.62	2904.96	0.96
1.2 Dead+1.0 Wind 300 deg - No Ice	41.85	-22.80	-13.19	-1482.54	2559.61	0.76
0.9 Dead+1.0 Wind 300 deg - No Ice	31.39	-22.80	-13.19	-1457.96	2517.38	0.75

Load Combination	Vertical	$Shear_x$	$Shear_z$	Overturning Moment, M_x	Overturning Moment, M_z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
1.2 Dead+1.0 Wind 330 deg - No Ice	41.85	-13.18	-22.83	-2564.15	1479.74	0.36
0.9 Dead+1.0 Wind 330 deg - No Ice	31.39	-13.18	-22.83	-2521.74	1455.31	0.34
1.2 Dead+1.0 Ice+1.0 Temp	69.65	-0.00	-0.00	-1.77	0.43	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	69.65	-0.01	-8.13	-971.06	1.18	-0.02
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	69.65	4.06	-7.04	-840.87	-482.97	-0.17
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	69.65	7.04	-4.06	-485.89	-837.59	-0.27
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	69.65	8.13	0.01	-1.23	-967.65	-0.30
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	69.65	7.04	4.07	483.23	-838.30	-0.24
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	69.65	4.07	7.05	837.69	-484.21	-0.13
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	69.65	0.01	8.13	967.16	-0.25	0.03
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	69.65	-4.06	7.04	836.97	483.90	0.17
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	69.65	-7.04	4.06	481.99	838.52	0.27
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	69.65	-8.13	-0.01	-2.66	968.58	0.30
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	69.65	-7.04	-4.07	-487.12	839.24	0.24
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	69.65	-4.07	-7.05	-841.58	485.14	0.13
Dead+Wind 0 deg - Service	34.88	-0.01	-6.31	-702.79	0.92	-0.04
Dead+Wind 30 deg - Service	34.88	3.15	-5.46	-608.31	-349.78	-0.15
Dead+Wind 60 deg - Service	34.88	5.45	-3.15	-350.96	-606.71	-0.23
Dead+Wind 90 deg - Service	34.88	6.30	0.01	0.30	-701.04	-0.24
Dead+Wind 120 deg - Service	34.88	5.46	3.16	351.36	-607.48	-0.19
Dead+Wind 150 deg - Service	34.88	3.16	5.47	608.14	-351.12	-0.09
Dead+Wind 180 deg - Service	34.88	0.01	6.31	701.84	-0.63	0.04
Dead+Wind 210 deg - Service	34.88	-3.15	5.46	607.36	350.06	0.15
Dead+Wind 240 deg - Service	34.88	-5.45	3.15	350.02	606.99	0.23
Dead+Wind 270 deg - Service	34.88	-6.30	-0.01	-1.25	701.32	0.24
Dead+Wind 300 deg - Service	34.88	-5.46	-3.16	-352.30	607.77	0.19
Dead+Wind 330 deg - Service	34.88	-3.16	-5.47	-609.08	351.40	0.09

Solution Summary

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX	PY	PZ	PX	PY	PZ	% Error
	K	K	K	K	K	K	
1	0.00	-34.88	0.00	0.00	34.88	0.00	0.000%
2	-0.02	-41.85	-26.35	0.02	41.85	26.35	0.000%
3	-0.02	-31.39	-26.35	0.02	31.39	26.35	0.000%
4	13.14	-41.85	-22.80	-13.14	41.85	22.80	0.000%
5	13.14	-31.39	-22.80	-13.14	31.39	22.80	0.000%
6	22.78	-41.85	-13.15	-22.78	41.85	13.15	0.000%
7	22.78	-31.39	-13.15	-22.78	31.39	13.15	0.000%
8	26.31	-41.85	0.02	-26.31	41.85	-0.02	0.000%
9	26.31	-31.39	0.02	-26.31	31.39	-0.02	0.000%
10	22.80	-41.85	13.19	-22.80	41.85	-13.19	0.000%
11	22.80	-31.39	13.19	-22.80	31.39	-13.19	0.000%
12	13.18	-41.85	22.83	-13.18	41.85	-22.83	0.000%
13	13.18	-31.39	22.83	-13.18	31.39	-22.83	0.000%

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX K	PY K	PZ K	PX K	PY K	PZ K	% Error
14	0.02	-41.85	26.35	-0.02	41.85	-26.35	0.000%
15	0.02	-31.39	26.35	-0.02	31.39	-26.35	0.000%
16	-13.14	-41.85	22.80	13.14	41.85	-22.80	0.000%
17	-13.14	-31.39	22.80	13.14	31.39	-22.80	0.000%
18	-22.78	-41.85	13.15	22.78	41.85	-13.15	0.000%
19	-22.78	-31.39	13.15	22.78	31.39	-13.15	0.000%
20	-26.31	-41.85	-0.02	26.31	41.85	0.02	0.000%
21	-26.31	-31.39	-0.02	26.31	31.39	0.02	0.000%
22	-22.80	-41.85	-13.19	22.80	41.85	13.19	0.000%
23	-22.80	-31.39	-13.19	22.80	31.39	13.19	0.000%
24	-13.18	-41.85	-22.83	13.18	41.85	22.83	0.000%
25	-13.18	-31.39	-22.83	13.18	31.39	22.83	0.000%
26	0.00	-69.65	0.00	0.00	69.65	0.00	0.000%
27	-0.01	-69.65	-8.13	0.01	69.65	8.13	0.000%
28	4.06	-69.65	-7.04	-4.06	69.65	7.04	0.000%
29	7.04	-69.65	-4.06	-7.04	69.65	4.06	0.000%
30	8.13	-69.65	0.01	-8.13	69.65	-0.01	0.000%
31	7.04	-69.65	4.07	-7.04	69.65	-4.07	0.000%
32	4.07	-69.65	7.05	-4.07	69.65	-7.05	0.000%
33	0.01	-69.65	8.13	-0.01	69.65	-8.13	0.000%
34	-4.06	-69.65	7.04	4.06	69.65	-7.04	0.000%
35	-7.04	-69.65	4.06	7.04	69.65	-4.06	0.000%
36	-8.13	-69.65	-0.01	8.13	69.65	0.01	0.000%
37	-7.04	-69.65	-4.07	7.04	69.65	4.07	0.000%
38	-4.07	-69.65	-7.05	4.07	69.65	7.05	0.000%
39	-0.01	-34.88	-6.31	0.01	34.88	6.31	0.000%
40	3.15	-34.88	-5.46	-3.15	34.88	5.46	0.000%
41	5.45	-34.88	-3.15	-5.45	34.88	3.15	0.000%
42	6.30	-34.88	0.01	-6.30	34.88	-0.01	0.000%
43	5.46	-34.88	3.16	-5.46	34.88	-3.16	0.000%
44	3.16	-34.88	5.47	-3.16	34.88	-5.47	0.000%
45	0.01	-34.88	6.31	-0.01	34.88	-6.31	0.000%
46	-3.15	-34.88	5.46	3.15	34.88	-5.46	0.000%
47	-5.45	-34.88	3.15	5.45	34.88	-3.15	0.000%
48	-6.30	-34.88	-0.01	6.30	34.88	0.01	0.000%
49	-5.46	-34.88	-3.16	5.46	34.88	3.16	0.000%
50	-3.16	-34.88	-5.47	3.16	34.88	5.47	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	0.00077344
3	Yes	5	0.00000001	0.00031529
4	Yes	7	0.00000001	0.00043680
5	Yes	7	0.00000001	0.00009892
6	Yes	7	0.00000001	0.00044784
7	Yes	7	0.00000001	0.00010191
8	Yes	6	0.00000001	0.00014132
9	Yes	5	0.00000001	0.00080465
10	Yes	7	0.00000001	0.00043688
11	Yes	7	0.00000001	0.00009886
12	Yes	7	0.00000001	0.00044500
13	Yes	7	0.00000001	0.00010099
14	Yes	5	0.00000001	0.00059375
15	Yes	5	0.00000001	0.00021176
16	Yes	7	0.00000001	0.00044529

17	Yes	7	0.00000001	0.00010126
18	Yes	7	0.00000001	0.00043419
19	Yes	7	0.00000001	0.00009830
20	Yes	6	0.00000001	0.00017330
21	Yes	5	0.00000001	0.00098942
22	Yes	7	0.00000001	0.00044834
23	Yes	7	0.00000001	0.00010184
24	Yes	7	0.00000001	0.00044028
25	Yes	7	0.00000001	0.00009968
26	Yes	4	0.00000001	0.00056751
27	Yes	7	0.00000001	0.00069949
28	Yes	8	0.00000001	0.00019380
29	Yes	8	0.00000001	0.00019566
30	Yes	7	0.00000001	0.00069561
31	Yes	8	0.00000001	0.00019183
32	Yes	8	0.00000001	0.00019339
33	Yes	7	0.00000001	0.00069273
34	Yes	8	0.00000001	0.00019345
35	Yes	8	0.00000001	0.00019154
36	Yes	7	0.00000001	0.00069680
37	Yes	8	0.00000001	0.00019644
38	Yes	8	0.00000001	0.00019491
39	Yes	5	0.00000001	0.00013192
40	Yes	6	0.00000001	0.00008821
41	Yes	6	0.00000001	0.00009439
42	Yes	5	0.00000001	0.00017197
43	Yes	6	0.00000001	0.00008774
44	Yes	6	0.00000001	0.00009210
45	Yes	5	0.00000001	0.00013067
46	Yes	6	0.00000001	0.00009277
47	Yes	6	0.00000001	0.00008676
48	Yes	5	0.00000001	0.00017607
49	Yes	6	0.00000001	0.00009445
50	Yes	6	0.00000001	0.00008992

Maximum Tower Deflections - Service Wind

Section No.	*Elevation*	*Horz. Deflection*	*Gov. Load*	*Tilt*	*Twist*
	ft	*in*	*Comb.*	*°*	*°*
L1	149 - 144	29.882	50	1.8357	0.0031
L2	144 - 139	27.963	50	1.8297	0.0030
L3	139 - 134	26.054	50	1.8148	0.0029
L4	134 - 129	24.167	50	1.7880	0.0028
L5	129 - 123.612	22.315	50	1.7493	0.0027
L6	127.388 - 122.388	21.727	50	1.7340	0.0026
L7	122.388 - 117.388	19.927	50	1.6970	0.0024
L8	117.388 - 112.388	18.187	50	1.6253	0.0021
L9	112.388 - 107.388	16.528	50	1.5408	0.0018
L10	107.388 - 102.388	14.964	50	1.4459	0.0015
L11	102.388 - 98.5	13.504	50	1.3426	0.0013
L12	98.5 - 98.25	12.445	50	1.2577	0.0011
L13	98.25 - 93.25	12.379	50	1.2546	0.0011
L14	93.25 - 88.25	11.099	50	1.1901	0.0010
L15	88.25 - 79.128	9.888	50	1.1221	0.0009
L16	83.873 - 78.128	8.888	50	1.0609	0.0008
L17	78.128 - 73.128	7.640	50	1.0024	0.0007
L18	73.128 - 69.92	6.642	50	0.9039	0.0006
L19	69.92 - 69.67	6.056	50	0.8401	0.0006
L20	69.67 - 64.67	6.012	50	0.8376	0.0006
L21	64.67 - 59.67	5.163	50	0.7853	0.0005

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L22	59.67 - 57.25	4.368	50	0.7329	0.0005
L23	57.25 - 57	4.003	50	0.7072	0.0004
L24	57 - 52	3.966	50	0.7042	0.0004
L25	52 - 43.243	3.261	50	0.6426	0.0004
L26	48.76 - 42.243	2.838	50	0.6028	0.0004
L27	42.243 - 37.243	2.048	50	0.5472	0.0003
L28	37.243 - 32.243	1.518	50	0.4645	0.0003
L29	32.243 - 27.243	1.075	50	0.3824	0.0002
L30	27.243 - 22.243	0.717	50	0.3011	0.0002
L31	22.243 - 17.25	0.444	50	0.2205	0.0001
L32	17.25 - 17	0.255	50	0.1409	0.0001
L33	17 - 12	0.247	50	0.1389	0.0001
L34	12 - 7	0.124	50	0.0978	0.0000
L35	7 - 5.25	0.042	50	0.0573	0.0000
L36	5.25 - 5	0.024	50	0.0434	0.0000
L37	5 - 0	0.022	50	0.0414	0.0000

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
149.00	DMP65R-BU6D w/ Mount Pipe	50	29.882	1.8357	0.0031	27227
140.00	AIR 6419 B41_TMO_CCIV2 w/ Mount Pipe	50	26.435	1.8188	0.0029	15590
130.00	BSF0020F3V1	50	22.682	1.7584	0.0027	7342
120.00	MX08FRO665-21 w/ Mount Pipe	50	19.087	1.6668	0.0022	4169

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	149 - 144	125.820	2	7.7460	0.0127
L2	144 - 139	117.746	2	7.7210	0.0122
L3	139 - 134	109.717	2	7.6585	0.0117
L4	134 - 129	101.778	2	7.5456	0.0113
L5	129 - 123.612	93.984	2	7.3820	0.0108
L6	127.388 - 122.388	91.510	2	7.3174	0.0104
L7	122.388 - 117.388	83.936	2	7.1617	0.0096
L8	117.388 - 112.388	76.612	2	6.8590	0.0084
L9	112.388 - 107.388	69.631	2	6.5029	0.0072
L10	107.388 - 102.388	63.044	2	6.1024	0.0061
L11	102.388 - 98.5	56.893	2	5.6665	0.0052
L12	98.5 - 98.25	52.434	24	5.3077	0.0045
L13	98.25 - 93.25	52.157	24	5.2947	0.0045
L14	93.25 - 88.25	46.767	24	5.0225	0.0040
L15	88.25 - 79.128	41.668	24	4.7350	0.0036
L16	83.873 - 78.128	37.453	24	4.4767	0.0033
L17	78.128 - 73.128	32.199	24	4.2297	0.0030
L18	73.128 - 69.92	27.993	24	3.8134	0.0025
L19	69.92 - 69.67	25.525	24	3.5442	0.0022
L20	69.67 - 64.67	25.339	24	3.5335	0.0022
L21	64.67 - 59.67	21.758	24	3.3128	0.0020

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L22	59.67 - 57.25	18.408	24	3.0914	0.0018
L23	57.25 - 57	16.870	24	2.9829	0.0017
L24	57 - 52	16.714	24	2.9701	0.0017
L25	52 - 43.243	13.742	24	2.7102	0.0015
L26	48.76 - 42.243	11.961	24	2.5421	0.0014
L27	42.243 - 37.243	8.629	24	2.3076	0.0013
L28	37.243 - 32.243	6.396	24	1.9586	0.0010
L29	32.243 - 27.243	4.527	24	1.6122	0.0008
L30	27.243 - 22.243	3.019	24	1.2689	0.0006
L31	22.243 - 17.25	1.869	24	0.9291	0.0004
L32	17.25 - 17	1.073	24	0.5935	0.0003
L33	17 - 12	1.042	24	0.5850	0.0003
L34	12 - 7	0.520	24	0.4121	0.0002
L35	7 - 5.25	0.178	24	0.2415	0.0001
L36	5.25 - 5	0.100	24	0.1829	0.0001
L37	5 - 0	0.091	24	0.1743	0.0001

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
149.00	DMP65R-BU6D w/ Mount Pipe	2	125.820	7.7460	0.0127	6741
140.00	AIR 6419 B41_TMO_CCIV2 w/ Mount Pipe	2	111.317	7.6750	0.0118	3836
130.00	BSF0020F3V1	2	95.528	7.4206	0.0110	1798
120.00	MX08FRO665-21 w/ Mount Pipe	2	80.400	7.0342	0.0091	1017

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	149 - 144 (1)	TP22.426x21.5x0.188	5.00	0.00	0.0	13.235	-3.87	774.23	0.005
L2	144 - 139 (2)	TP23.352x22.426x0.188	5.00	0.00	0.0	13.786	-7.30	806.47	0.009
L3	139 - 134 (3)	TP24.278x23.352x0.188	5.00	0.00	0.0	14.337	-7.63	838.71	0.009
L4	134 - 129 (4)	TP25.204x24.278x0.188	5.00	0.00	0.0	14.888	-11.09	870.95	0.013
L5	129 - 123.612 (5)	TP26.202x25.204x0.188	5.39	0.00	0.0	15.066	-11.22	881.35	0.013
L6	123.612 - 122.388 (6)	TP26.043x25.128x0.188	5.00	0.00	0.0	15.387	-11.85	900.15	0.013
L7	122.388 - 117.388 (7)	TP26.958x26.043x0.188	5.00	0.00	0.0	15.932	-15.06	932.00	0.016
L8	117.388 - 112.388 (8)	TP27.873x26.958x0.188	5.00	0.00	0.0	16.476	-15.57	963.86	0.016
L9	112.388 - 107.388 (9)	TP28.788x27.873x0.188	5.00	0.00	0.0	17.021	-16.11	995.72	0.016
L10	107.388 - 102.388 (10)	TP29.703x28.788x0.188	5.00	0.00	0.0	17.565	-16.67	1027.58	0.016
L11	102.388 - 98.5	TP30.415x29.703x0.188	3.89	0.00	0.0	17.989	-17.12	1052.35	0.016

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
	(11)								
L12	98.5 - 98.25 (12)	TP30.46x30.415x0.344	0.25	0.00	0.0	32.859	-17.18	1922.25	0.009
L13	98.25 - 93.25 (13)	TP31.375x30.46x0.338	5.00	0.00	0.0	33.249	-17.99	1945.04	0.009
L14	93.25 - 88.25 (14)	TP32.29x31.375x0.331	5.00	0.00	0.0	33.601	-18.82	1965.68	0.010
L15	88.25 - 79.128 (15)	TP33.96x32.29x0.331	9.12	0.00	0.0	34.444	-19.56	2014.95	0.010
L16	79.128 - 78.128 (16)	TP33.763x32.716x0.25	5.75	0.00	0.0	26.593	-21.00	1555.68	0.013
L17	78.128 - 73.128 (17)	TP34.675x33.763x0.25	5.00	0.00	0.0	27.316	-21.78	1597.98	0.014
L18	73.128 - 69.92 (18)	TP35.259x34.675x0.25	3.21	0.00	0.0	27.780	-22.30	1625.12	0.014
L19	69.92 - 69.67 (19)	TP35.305x35.259x0.5	0.25	0.00	0.0	55.235	-22.37	3231.27	0.007
L20	69.67 - 64.67 (20)	TP36.216x35.305x0.488	5.00	0.00	0.0	55.284	-23.60	3234.10	0.007
L21	64.67 - 59.67 (21)	TP37.127x36.216x0.488	5.00	0.00	0.0	56.694	-24.86	3316.58	0.007
L22	59.67 - 57.25 (22)	TP37.568x37.127x0.481	2.42	0.00	0.0	56.650	-25.47	3314.03	0.008
L23	57.25 - 57 (23)	TP37.614x37.568x0.419	0.25	0.00	0.0	49.437	-25.54	2892.04	0.009
L24	57 - 52 (24)	TP38.525x37.614x0.413	5.00	0.00	0.0	49.900	-26.70	2919.15	0.009
L25	52 - 43.243 (25)	TP40.121x38.525x0.413	8.76	0.00	0.0	50.673	-27.47	2964.37	0.009
L26	43.243 - 42.243 (26)	TP39.803x38.616x0.313	6.52	0.00	0.0	39.170	-29.83	2291.43	0.013
L27	42.243 - 37.243 (27)	TP40.714x39.803x0.313	5.00	0.00	0.0	40.073	-30.88	2344.29	0.013
L28	37.243 - 32.243 (28)	TP41.625x40.714x0.313	5.00	0.00	0.0	40.977	-31.95	2397.15	0.013
L29	32.243 - 27.243 (29)	TP42.536x41.625x0.313	5.00	0.00	0.0	41.881	-33.05	2450.02	0.013
L30	27.243 - 22.243 (30)	TP43.447x42.536x0.313	5.00	0.00	0.0	42.784	-34.17	2502.88	0.014
L31	22.243 - 17.25 (31)	TP44.357x43.447x0.313	4.99	0.00	0.0	43.687	-35.30	2555.67	0.014
L32	17.25 - 17 (32)	TP44.403x44.357x0.625	0.25	0.00	0.0	86.844	-35.41	5080.35	0.007
L33	17 - 12 (33)	TP45.314x44.403x0.613	5.00	0.00	0.0	86.902	-37.30	5083.78	0.007
L34	12 - 7 (34)	TP46.225x45.314x0.613	5.00	0.00	0.0	88.673	-39.22	5187.39	0.008
L35	7 - 5.25 (35)	TP46.543x46.225x0.613	1.75	0.00	0.0	89.293	-39.89	5223.65	0.008
L36	5.25 - 5 (36)	TP46.589x46.543x0.6	0.25	0.00	0.0	87.581	-40.00	5123.51	0.008
L37	5 - 0 (37)	TP47.5x46.589x0.588	5.00	0.00	0.0	87.479	-41.84	5117.52	0.008

Pole Bending Design Data

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L1	149 - 144 (1)	TP22.426x21.5x0.188	25.89	422.86	0.061	0.00	422.86	0.000
L2	144 - 139 (2)	TP23.352x22.426x0.188	55.47	452.93	0.122	0.00	452.93	0.000
L3	139 - 134 (3)	TP24.278x23.352x0.188	103.17	483.48	0.213	0.00	483.48	0.000
L4	134 - 129 (4)	TP25.204x24.278x0.188	157.48	514.46	0.306	0.00	514.46	0.000
L5	129 - 123.612 (5)	TP26.202x25.204x0.188	180.39	524.53	0.344	0.00	524.53	0.000
L6	123.612 -	TP26.043x25.128x0.188	252.86	542.84	0.466	0.00	542.84	0.000

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
	122.388 (6)							
L7	122.388 - 117.388 (7)	TP26.958x26.043x0.188	335.15	574.11	0.584	0.00	574.11	0.000
L8	117.388 - 112.388 (8)	TP27.873x26.958x0.188	426.12	605.63	0.704	0.00	605.63	0.000
L9	112.388 - 107.388 (9)	TP28.788x27.873x0.188	518.79	637.35	0.814	0.00	637.35	0.000
L10	107.388 - 102.388 (10)	TP29.703x28.788x0.188	613.12	669.22	0.916	0.00	669.22	0.000
L11	102.388 - 98.5 (11)	TP30.415x29.703x0.188	687.59	694.06	0.991	0.00	694.06	0.000
L12	98.5 - 98.25 (12)	TP30.46x30.415x0.344	692.42	1506.55	0.460	0.00	1506.55	0.000
L13	98.25 - 93.25 (13)	TP31.375x30.46x0.338	789.94	1571.88	0.503	0.00	1571.88	0.000
L14	93.25 - 88.25 (14)	TP32.29x31.375x0.331	889.48	1630.72	0.545	0.00	1630.72	0.000
L15	88.25 - 79.128 (15)	TP33.96x32.29x0.331	978.26	1703.49	0.574	0.00	1703.49	0.000
L16	79.128 - 78.128 (16)	TP33.763x32.716x0.25	1097.37	1228.92	0.893	0.00	1228.92	0.000
L17	78.128 - 73.128 (17)	TP34.675x33.763x0.25	1203.12	1283.78	0.937	0.00	1283.78	0.000
L18	73.128 - 69.92 (18)	TP35.259x34.675x0.25	1271.87	1319.19	0.964	0.00	1319.19	0.000
L19	69.92 - 69.67 (19)	TP35.305x35.259x0.5	1277.25	2918.19	0.438	0.00	2918.19	0.000
L20	69.67 - 64.67 (20)	TP36.216x35.305x0.488	1386.11	3000.41	0.462	0.00	3000.41	0.000
L21	64.67 - 59.67 (21)	TP37.127x36.216x0.488	1497.12	3156.46	0.474	0.00	3156.46	0.000
L22	59.67 - 57.25 (22)	TP37.568x37.127x0.481	1551.62	3193.57	0.486	0.00	3193.57	0.000
L23	57.25 - 57 (23)	TP37.614x37.568x0.419	1557.28	2799.79	0.556	0.00	2799.79	0.000
L24	57 - 52 (24)	TP38.525x37.614x0.413	1671.50	2896.98	0.577	0.00	2896.98	0.000
L25	52 - 43.243 (25)	TP40.121x38.525x0.413	1746.56	2987.93	0.585	0.00	2987.93	0.000
L26	43.243 - 42.243 (26)	TP39.803x38.616x0.313	1900.36	2177.53	0.873	0.00	2177.53	0.000
L27	42.243 - 37.243 (27)	TP40.714x39.803x0.313	2020.52	2261.48	0.893	0.00	2261.48	0.000
L28	37.243 - 32.243 (28)	TP41.625x40.714x0.313	2142.18	2346.11	0.913	0.00	2346.11	0.000
L29	32.243 - 27.243 (29)	TP42.536x41.625x0.313	2265.27	2431.36	0.932	0.00	2431.36	0.000
L30	27.243 - 22.243 (30)	TP43.447x42.536x0.313	2389.71	2517.18	0.949	0.00	2517.18	0.000
L31	22.243 - 17.25 (31)	TP44.357x43.447x0.313	2515.22	2603.39	0.966	0.00	2603.39	0.000
L32	17.25 - 17 (32)	TP44.403x44.357x0.625	2521.54	5771.44	0.437	0.00	5771.44	0.000
L33	17 - 12 (33)	TP45.314x44.403x0.613	2648.72	5900.52	0.449	0.00	5900.52	0.000
L34	12 - 7 (34)	TP46.225x45.314x0.613	2777.52	6145.13	0.452	0.00	6145.13	0.000
L35	7 - 5.25 (35)	TP46.543x46.225x0.613	2822.97	6231.93	0.453	0.00	6231.93	0.000
L36	5.25 - 5 (36)	TP46.589x46.543x0.6	2829.48	6121.93	0.462	0.00	6121.93	0.000
L37	5 - 0 (37)	TP47.5x46.589x0.588	2960.49	6240.78	0.474	0.00	6240.78	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	149 - 144 (1)	TP22.426x21.5x0.188	4.92	232.27	0.021	0.00	452.35	0.000
L2	144 - 139 (2)	TP23.352x22.426x0.188	9.35	241.94	0.039	0.00	490.81	0.000
L3	139 - 134 (3)	TP24.278x23.352x0.188	9.73	251.61	0.039	0.00	530.84	0.000
L4	134 - 129 (4)	TP25.204x24.278x0.188	14.16	261.29	0.054	0.06	572.43	0.000
L5	129 - 123.612 (5)	TP26.202x25.204x0.188	14.28	264.40	0.054	0.06	586.18	0.000
L6	123.612 - 122.388 (6)	TP26.043x25.128x0.188	14.71	270.04	0.054	0.06	611.46	0.000
L7	122.388 - 117.388 (7)	TP26.958x26.043x0.188	18.03	279.60	0.064	0.36	655.50	0.001
L8	117.388 - 112.388 (8)	TP27.873x26.958x0.188	18.38	289.16	0.064	0.36	701.08	0.001
L9	112.388 - 107.388 (9)	TP28.788x27.873x0.188	18.71	298.72	0.063	0.36	748.19	0.000
L10	107.388 - 102.388 (10)	TP29.703x28.788x0.188	19.04	308.27	0.062	0.36	796.83	0.000
L11	102.388 - 98.5 (11)	TP30.415x29.703x0.188	19.30	315.70	0.061	0.36	835.71	0.000
L12	98.5 - 98.25 (12)	TP30.46x30.415x0.344	19.31	576.68	0.033	0.36	1520.96	0.000
L13	98.25 - 93.25 (13)	TP31.375x30.46x0.338	19.72	583.51	0.034	0.36	1586.07	0.000
L14	93.25 - 88.25 (14)	TP32.29x31.375x0.331	20.12	589.71	0.034	0.36	1650.47	0.000
L15	88.25 - 79.128 (15)	TP33.96x32.29x0.331	20.47	604.49	0.034	0.36	1734.25	0.000
L16	79.128 - 78.128 (16)	TP33.763x32.716x0.25	21.00	466.70	0.045	0.36	1369.75	0.000
L17	78.128 - 73.128 (17)	TP34.675x33.763x0.25	21.34	479.39	0.045	0.36	1445.25	0.000
L18	73.128 - 69.92 (18)	TP35.259x34.675x0.25	21.55	487.54	0.044	0.36	1494.76	0.000
L19	69.92 - 69.67 (19)	TP35.305x35.259x0.5	21.56	969.38	0.022	0.36	2954.71	0.000
L20	69.67 - 64.67 (20)	TP36.216x35.305x0.488	22.00	970.23	0.023	0.36	3035.78	0.000
L21	64.67 - 59.67 (21)	TP37.127x36.216x0.488	22.43	994.98	0.023	0.36	3192.61	0.000
L22	59.67 - 57.25 (22)	TP37.568x37.127x0.481	22.64	994.21	0.023	0.36	3229.10	0.000
L23	57.25 - 57 (23)	TP37.614x37.568x0.419	22.65	867.61	0.026	0.36	2826.13	0.000
L24	57 - 52 (24)	TP38.525x37.614x0.413	23.05	875.74	0.026	0.36	2922.98	0.000
L25	52 - 43.243 (25)	TP40.121x38.525x0.413	23.31	889.31	0.026	0.36	3014.26	0.000
L26	43.243 - 42.243 (26)	TP39.803x38.616x0.313	23.90	687.43	0.035	0.36	2377.39	0.000
L27	42.243 - 37.243 (27)	TP40.714x39.803x0.313	24.20	703.29	0.034	0.36	2488.35	0.000
L28	37.243 - 32.243 (28)	TP41.625x40.714x0.313	24.50	719.15	0.034	0.36	2601.83	0.000
L29	32.243 - 27.243 (29)	TP42.536x41.625x0.313	24.78	735.00	0.034	0.36	2717.85	0.000
L30	27.243 - 22.243 (30)	TP43.447x42.536x0.313	25.04	750.86	0.033	0.36	2836.40	0.000
L31	22.243 - 17.25 (31)	TP44.357x43.447x0.313	25.28	766.70	0.033	0.36	2957.31	0.000
L32	17.25 - 17 (32)	TP44.403x44.357x0.625	25.28	1524.11	0.017	0.36	5843.13	0.000
L33	17 - 12 (33)	TP45.314x44.403x0.613	25.61	1525.13	0.017	0.36	5970.43	0.000
L34	12 - 7 (34)	TP46.225x45.314x0.613	25.93	1556.22	0.017	0.36	6216.27	0.000
L35	7 - 5.25 (35)	TP46.543x46.225x0.613	26.05	1567.09	0.017	0.36	6303.48	0.000
L36	5.25 - 5 (36)	TP46.589x46.543x0.6	26.05	1537.05	0.017	0.36	6190.46	0.000
L37	5 - 0 (37)	TP47.5x46.589x0.588	26.37	1535.25	0.017	0.36	6307.38	0.000

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 $\frac{T_u}{\phi T_n}$

Pole Interaction Design Data

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio M_{ux} / ϕM_{nx}	Ratio M_{uy} / ϕM_{ny}	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	149 - 144 (1)	0.005	0.061	0.000	0.021	0.000	0.067	1.050	
L2	144 - 139 (2)	0.009	0.122	0.000	0.039	0.000	0.133	1.050	
L3	139 - 134 (3)	0.009	0.213	0.000	0.039	0.000	0.224	1.050	
L4	134 - 129 (4)	0.013	0.306	0.000	0.054	0.000	0.322	1.050	
L5	129 - 123.612 (5)	0.013	0.344	0.000	0.054	0.000	0.360	1.050	
L6	123.612 - 122.388 (6)	0.013	0.466	0.000	0.054	0.000	0.482	1.050	
L7	122.388 - 117.388 (7)	0.016	0.584	0.000	0.064	0.001	0.604	1.050	
L8	117.388 - 112.388 (8)	0.016	0.704	0.000	0.064	0.001	0.724	1.050	
L9	112.388 - 107.388 (9)	0.016	0.814	0.000	0.063	0.000	0.834	1.050	
L10	107.388 - 102.388 (10)	0.016	0.916	0.000	0.062	0.000	0.936	1.050	
L11	102.388 - 98.5 (11)	0.016	0.991	0.000	0.061	0.000	1.011	1.050	
L12	98.5 - 98.25 (12)	0.009	0.460	0.000	0.033	0.000	0.470	1.050	
L13	98.25 - 93.25 (13)	0.009	0.503	0.000	0.034	0.000	0.513	1.050	
L14	93.25 - 88.25 (14)	0.010	0.545	0.000	0.034	0.000	0.556	1.050	
L15	88.25 - 79.128 (15)	0.010	0.574	0.000	0.034	0.000	0.585	1.050	
L16	79.128 - 78.128 (16)	0.013	0.893	0.000	0.045	0.000	0.908	1.050	
L17	78.128 - 73.128 (17)	0.014	0.937	0.000	0.045	0.000	0.953	1.050	
L18	73.128 - 69.92 (18)	0.014	0.964	0.000	0.044	0.000	0.980	1.050	
L19	69.92 - 69.67 (19)	0.007	0.438	0.000	0.022	0.000	0.445	1.050	
L20	69.67 - 64.67 (20)	0.007	0.462	0.000	0.023	0.000	0.470	1.050	
L21	64.67 - 59.67 (21)	0.007	0.474	0.000	0.023	0.000	0.482	1.050	
L22	59.67 - 57.25 (22)	0.008	0.486	0.000	0.023	0.000	0.494	1.050	
L23	57.25 - 57 (23)	0.009	0.556	0.000	0.026	0.000	0.566	1.050	
L24	57 - 52 (24)	0.009	0.577	0.000	0.026	0.000	0.587	1.050	
L25	52 - 43.243 (25)	0.009	0.585	0.000	0.026	0.000	0.594	1.050	
L26	43.243 - 42.243 (26)	0.013	0.873	0.000	0.035	0.000	0.887	1.050	
L27	42.243 - 37.243 (27)	0.013	0.893	0.000	0.034	0.000	0.908	1.050	
L28	37.243 - 32.243 (28)	0.013	0.913	0.000	0.034	0.000	0.928	1.050	
L29	32.243 -	0.013	0.932	0.000	0.034	0.000	0.946	1.050	

Section No.	Elevation ft	Ratio P_u / ϕP_n	Ratio M_{ux} / ϕM_{nx}	Ratio M_{uy} / ϕM_{ny}	Ratio V_u / ϕV_n	Ratio T_u / ϕT_n	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L30	27.243 (29) 27.243 - 22.243 (30)	0.014	0.949	0.000	0.033	0.000	0.964	1.050	
L31	22.243 - 17.25 (31)	0.014	0.966	0.000	0.033	0.000	0.981	1.050	
L32	17.25 - 17 (32)	0.007	0.437	0.000	0.017	0.000	0.444	1.050	
L33	17 - 12 (33)	0.007	0.449	0.000	0.017	0.000	0.457	1.050	
L34	12 - 7 (34)	0.008	0.452	0.000	0.017	0.000	0.460	1.050	
L35	7 - 5.25 (35)	0.008	0.453	0.000	0.017	0.000	0.461	1.050	
L36	5.25 - 5 (36)	0.008	0.462	0.000	0.017	0.000	0.470	1.050	
L37	5 - 0 (37)	0.008	0.474	0.000	0.017	0.000	0.483	1.050	

Section Capacity Table

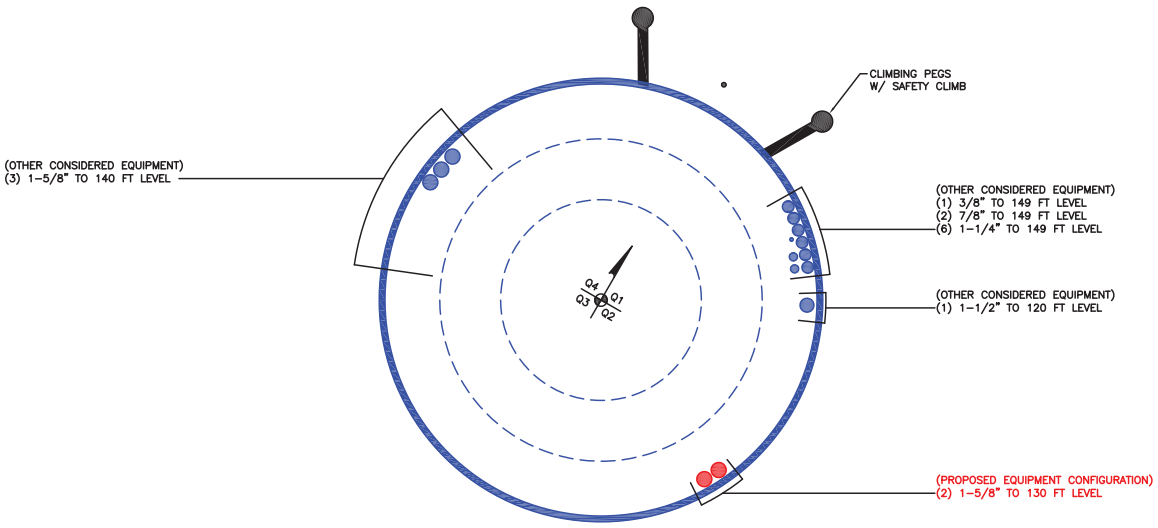
Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	149 - 144	Pole	TP22.426x21.5x0.188	1	-3.87	812.94	6.3	Pass
L2	144 - 139	Pole	TP23.352x22.426x0.188	2	-7.30	846.79	12.7	Pass
L3	139 - 134	Pole	TP24.278x23.352x0.188	3	-7.63	880.65	21.3	Pass
L4	134 - 129	Pole	TP25.204x24.278x0.188	4	-11.09	914.50	30.6	Pass
L5	129 - 123.612	Pole	TP26.202x25.204x0.188	5	-11.22	925.41	34.2	Pass
L6	123.612 - 122.388	Pole	TP26.043x25.128x0.188	6	-11.85	945.15	45.9	Pass
L7	122.388 - 117.388	Pole	TP26.958x26.043x0.188	7	-15.06	978.61	57.5	Pass
L8	117.388 - 112.388	Pole	TP27.873x26.958x0.188	8	-15.57	1012.06	68.9	Pass
L9	112.388 - 107.388	Pole	TP28.788x27.873x0.188	9	-16.11	1045.50	79.4	Pass
L10	107.388 - 102.388	Pole	TP29.703x28.788x0.188	10	-16.67	1078.96	89.2	Pass
L11	102.388 - 98.5	Pole	TP30.415x29.703x0.188	11	-17.12	1104.97	96.3	Pass
L12	98.5 - 98.25	Pole	TP30.46x30.415x0.344	12	-17.18	2018.36	44.7	Pass
L13	98.25 - 93.25	Pole	TP31.375x30.46x0.338	13	-17.99	2042.29	48.9	Pass
L14	93.25 - 88.25	Pole	TP32.29x31.375x0.331	14	-18.82	2063.96	53.0	Pass
L15	88.25 - 79.128	Pole	TP33.96x32.29x0.331	15	-19.56	2115.70	55.7	Pass
L16	79.128 - 78.128	Pole	TP33.763x32.716x0.25	16	-21.00	1633.46	86.5	Pass
L17	78.128 - 73.128	Pole	TP34.675x33.763x0.25	17	-21.78	1677.88	90.7	Pass
L18	73.128 - 69.92	Pole	TP35.259x34.675x0.25	18	-22.30	1706.38	93.3	Pass
L19	69.92 - 69.67	Pole	TP35.305x35.259x0.5	19	-22.37	3392.83	42.4	Pass
L20	69.67 - 64.67	Pole	TP36.216x35.305x0.488	20	-23.60	3395.80	44.7	Pass
L21	64.67 - 59.67	Pole	TP37.127x36.216x0.488	21	-24.86	3482.41	45.9	Pass
L22	59.67 - 57.25	Pole	TP37.568x37.127x0.481	22	-25.47	3479.73	47.1	Pass
L23	57.25 - 57	Pole	TP37.614x37.568x0.419	23	-25.54	3036.64	53.9	Pass
L24	57 - 52	Pole	TP38.525x37.614x0.413	24	-26.70	3065.11	55.9	Pass
L25	52 - 43.243	Pole	TP40.121x38.525x0.413	25	-27.47	3112.59	56.6	Pass
L26	43.243 - 42.243	Pole	TP39.803x38.616x0.313	26	-29.83	2406.00	84.5	Pass
L27	42.243 - 37.243	Pole	TP40.714x39.803x0.313	27	-30.88	2461.50	86.5	Pass
L28	37.243 - 32.243	Pole	TP41.625x40.714x0.313	28	-31.95	2517.01	88.3	Pass
L29	32.243 - 27.243	Pole	TP42.536x41.625x0.313	29	-33.05	2572.52	90.1	Pass
L30	27.243 - 22.243	Pole	TP43.447x42.536x0.313	30	-34.17	2628.02	91.8	Pass
L31	22.243 - 17.25	Pole	TP44.357x43.447x0.313	31	-35.30	2683.45	93.4	Pass
L32	17.25 - 17	Pole	TP44.403x44.357x0.625	32	-35.41	5334.37	42.3	Pass
L33	17 - 12	Pole	TP45.314x44.403x0.613	33	-37.30	5337.97	43.5	Pass
L34	12 - 7	Pole	TP46.225x45.314x0.613	34	-39.22	5446.76	43.8	Pass

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L35	7 - 5.25	Pole	TP46.543x46.225x0.613	35	-39.89	5484.83	43.9	Pass
L36	5.25 - 5	Pole	TP46.589x46.543x0.6	36	-40.00	5379.69	44.8	Pass
L37	5 - 0	Pole	TP47.5x46.589x0.588	37	-41.84	5373.40	46.0	Pass
							Summary	
						Pole (L11)	96.3	Pass
						RATING =	**96.3**	**Pass**

***NOTE: Above stress ratios for reinforced sections are approximate. More exact calculations are presented in Appendix C.**

APPENDIX B

BASE LEVEL DRAWING


CLIMBING PEGS
W/ SAFETY CLIMB
(OTHER CONSIDERED EQUIPMENT)
(3) 1-5/8" TO 140 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(1) 3/8" TO 149 FT LEVEL
(2) 7/8" TO 149 FT LEVEL
(6) 1-1/4" TO 149 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(1) 1-1/2" TO 120 FT LEVEL
(PROPOSED EQUIPMENT CONFIGURATION)
(2) 1-5/8" TO 130 FT LEVEL
Q1
Q2
Q3
Q4

APPENDIX C

ADDITIONAL CALCULATIONS

CCIpole

per TIA-222- H

Site BU: 842856

Work Order: 2246204

Pole Geometry

	Pole Height Above Base (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Bend Radius (in)	Pole Material
1	149	25.388	3.776	18	21.5	26.2021	0.1875	Auto	A572-65
2	127.388	48.26	4.745	18	25.13	33.9598	0.1875	Auto	A572-65
3	83.873	40.63	5.517	18	32.72	40.1211	0.25	Auto	A572-65
4	48.76	48.76	0	18	38.62	47.5	0.3125	Auto	A572-65

Reinforcement Configuration

	Bottom Effective Elevation (ft)	Top Effective Elevation (ft)	Type	Model	Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	47.25	57.25	plate	CCI-AFP-060100	3																		
2	82.5	98.5	plate	CCI-AFP-045100	3																		
3	57.25	69.92	plate	CCI-AFP-065125	3																		
4	5.25	17.25	plate	CFP-080125	2																		
5	5.25	17.25	plate	WCFP-080125	2																		
6	0	5.25	plate	TS 1	4	-3.1		1.8							-3.1		1.8						
7	0	5.25	plate	TS 2	2							3.13									3.13		
8	0	5.25	plate	TS 2	2							-3.1									-3.1		
9																							
10																							

Reinforcement Details

	B (in)	H (in)	Gross Area (in^2)	Pole Face to Centroid (in)	Bottom Termination Type	Bottom Termination Length (in)	Top Termination Type	Top Termination Length (in)	Lu (in)	Net Area (in2)	Bolt Hole Size (in)	Reinforcement Material
1	6	1	6	0.5	PC 8.8 - M20 (100)	30	PC 8.8 - M20 (100)	30.000	16.000	4.750	1.1875	A572-65
2	4.5	1	4.5	0.5	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	20.000	3.250	1.1875	A572-65
3	6.5	1.25	8.125	0.625	PC 8.8 - M20 (100)	42	PC 8.8 - M20 (100)	42.000	19.000	6.563	1.1875	A572-65
4	8	1.25	10	0.625	PC 8.8 - M20 (100)	48	PC 8.8 - M20 (100)	48.000	17.000	8.438	1.1875	A572-65
5	8	1.25	10	0.625	Welded	n/a	PC 8.8 - M20 (100)	48.000	17.000	8.438	1.1875	A572-65
6	0.75	6.5	4.875	3.25	Welded	n/a	Welded	n/a	0.000	4.875	0.0000	A572-50
7	0.75	5.25	3.9375	2.625	Welded	n/a	Welded	n/a	0.000	3.938	0.0000	A572-50
8	0.75	5.25	3.9375	2.625	Welded	n/a	Welded	n/a	0.000	3.938	0.0000	A572-50

Connection Details for Custom Reinforcements

Reinforcement	End	# Bolts	N or X	Bolt Spacing (in)	Edge Dist (in)	Weld Grade (ksi)	Transverse (Horiz.) Weld Type	Horiz. Weld Length (in)	Horiz. Groove Depth (in)	Horiz. Groove Angle (deg)	Horiz. Fillet Size (in)	Vertical Weld Length (in)	Vertical Fillet Size (in)	Rev H Connection Capacity (kip)
CFP-080125	Top	16	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	16	N	3	3	-	-	-	-	-	-	-	-	-
WCFP-080125	Top	16	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	-	-	-	-	80	None	-	-	-	-	59.5	0.313	-
TS 1	Top	-	-	-	-	80	None	-	-	-	-	60	0.313	-
	Bottom	-	-	-	-	80	CJP Groove	11.5	0.375	45	0.25	-	-	-
TS 2	Top	-	-	-	-	80	None	-	-	-	-	60	0.313	-
	Bottom	-	-	-	-	80	CJP Groove	10.5	0.375	45	0.25	-	-	-

TNX Geometry Input

Increment (ft): 5 Export to TNX

	Section Height (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Tapered Pole Grade	Weight Multiplier
1	149 - 144	5		18	21.500	22.426	0.1875	A572-65	1.000
2	144 - 139	5		18	22.426	23.352	0.1875	A572-65	1.000
3	139 - 134	5		18	23.352	24.278	0.1875	A572-65	1.000
4	134 - 129	5		18	24.278	25.204	0.1875	A572-65	1.000
5	129 - 127.388	5.388	3.776	18	25.204	26.202	0.1875	A572-65	1.000
6	127.388 - 122.388	5		18	25.128	26.043	0.1875	A572-65	1.000
7	122.388 - 117.388	5		18	26.043	26.958	0.1875	A572-65	1.000
8	117.388 - 112.388	5		18	26.958	27.873	0.1875	A572-65	1.000
9	112.388 - 107.388	5		18	27.873	28.788	0.1875	A572-65	1.000
10	107.388 - 102.388	5		18	28.788	29.703	0.1875	A572-65	1.000
11	102.388 - 98.5	3.888		18	29.703	30.415	0.1875	A572-65	1.000
12	98.5 - 98.25	0.25		18	30.415	30.460	0.34375	A572-65	0.959
13	98.25 - 93.25	5		18	30.460	31.375	0.3375	A572-65	0.964
14	93.25 - 88.25	5		18	31.375	32.290	0.33125	A572-65	0.970
15	88.25 - 83.873	9.122	4.745	18	32.290	33.960	0.33125	A572-65	0.960
16	83.873 - 78.128	5.745		18	32.716	33.763	0.25	A572-65	1.000
17	78.128 - 73.128	5		18	33.763	34.675	0.25	A572-65	1.000
18	73.128 - 69.92	3.208		18	34.675	35.259	0.25	A572-65	1.000
19	69.92 - 69.67	0.25		18	35.259	35.305	0.5	A572-65	0.945
20	69.67 - 64.67	5		18	35.305	36.216	0.4875	A572-65	0.957
21	64.67 - 59.67	5		18	36.216	37.127	0.4875	A572-65	0.946
22	59.67 - 57.25	2.42		18	37.127	37.568	0.48125	A572-65	0.953
23	57.25 - 57	0.25		18	37.568	37.614	0.41875	A572-65	0.964
24	57 - 52	5		18	37.614	38.525	0.4125	A572-65	0.969
25	52 - 48.76	8.757	5.517	18	38.525	40.121	0.4125	A572-65	0.964
26	48.76 - 42.243	6.517		18	38.616	39.803	0.3125	A572-65	1.000
27	42.243 - 37.243	5		18	39.803	40.714	0.3125	A572-65	1.000
28	37.243 - 32.243	5		18	40.714	41.625	0.3125	A572-65	1.000
29	32.243 - 27.243	5		18	41.625	42.536	0.3125	A572-65	1.000
30	27.243 - 22.243	5		18	42.536	43.447	0.3125	A572-65	1.000
31	22.243 - 17.25	4.993		18	43.447	44.357	0.3125	A572-65	1.000
32	17.25 - 17	0.25		18	44.357	44.403	0.625	A572-65	0.964
33	17 - 12	5		18	44.403	45.314	0.6125	A572-65	0.974
34	12 - 7	5		18	45.314	46.225	0.6125	A572-65	0.965
35	7 - 5.25	1.75		18	46.225	46.543	0.6125	A572-65	0.962
36	5.25 - 5	0.25		18	46.543	46.589	0.6	A572-65	0.927
37	5 - 0	5		18	46.589	47.500	0.5875	A572-65	0.938

TNX Section Forces

Increment (ft):	5	TNX Output		
	Section Height (ft)	P_u (K)	M_{ux} (kip-ft)	V_u (K)
1	149 - 144	3.87	25.89	4.92
2	144 - 139	7.30	55.47	9.35
3	139 - 134	7.63	103.17	9.73
4	134 - 129	11.09	157.48	14.16
5	129 - 127.388	11.22	180.39	14.28
6	127.388 - 122.388	11.85	252.86	14.71
7	122.388 - 117.388	15.06	335.15	18.03
8	117.388 - 112.388	15.57	426.12	18.38
9	112.388 - 107.388	16.11	518.79	18.71
10	107.388 - 102.388	16.67	613.12	19.04
11	102.388 - 98.5	17.12	687.59	19.30
12	98.5 - 98.25	17.18	692.42	19.31
13	98.25 - 93.25	17.99	789.94	19.72
14	93.25 - 88.25	18.82	889.48	20.12
15	88.25 - 83.873	19.56	978.26	20.47
16	83.873 - 78.128	21.00	1097.37	21.00
17	78.128 - 73.128	21.78	1203.13	21.34
18	73.128 - 69.92	22.30	1271.86	21.55
19	69.92 - 69.67	22.37	1277.25	21.56
20	69.67 - 64.67	23.60	1386.11	22.00
21	64.67 - 59.67	24.86	1497.12	22.43
22	59.67 - 57.25	25.47	1551.63	22.64
23	57.25 - 57	25.54	1557.28	22.65
24	57 - 52	26.70	1671.50	23.05
25	52 - 48.76	27.47	1746.56	23.31
26	48.76 - 42.243	29.83	1900.36	23.90
27	42.243 - 37.243	30.88	2020.51	24.20
28	37.243 - 32.243	31.95	2142.17	24.50
29	32.243 - 27.243	33.05	2265.26	24.78
30	27.243 - 22.243	34.17	2389.71	25.04
31	22.243 - 17.25	35.30	2515.23	25.28
32	17.25 - 17	35.41	2521.54	25.28
33	17 - 12	37.30	2648.73	25.61
34	12 - 7	39.22	2777.52	25.93
35	7 - 5.25	39.89	2822.97	26.05
36	5.25 - 5	40.00	2829.48	26.05
37	5 - 0	41.84	2960.49	26.37

Analysis Results

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
149 - 144	Pole	TP22.426x21.5x0.1875	Pole	6.4%	Pass
144 - 139	Pole	TP23.352x22.426x0.1875	Pole	12.7%	Pass
139 - 134	Pole	TP24.278x23.352x0.1875	Pole	21.3%	Pass
134 - 129	Pole	TP25.204x24.278x0.1875	Pole	30.7%	Pass
129 - 127.39	Pole	TP26.202x25.204x0.1875	Pole	34.3%	Pass
127.39 - 122.39	Pole	TP26.043x25.128x0.1875	Pole	45.9%	Pass
122.39 - 117.39	Pole	TP26.958x26.043x0.1875	Pole	57.5%	Pass
117.39 - 112.39	Pole	TP27.873x26.958x0.1875	Pole	69.0%	Pass
112.39 - 107.39	Pole	TP28.788x27.873x0.1875	Pole	79.5%	Pass
107.39 - 102.39	Pole	TP29.703x28.788x0.1875	Pole	89.2%	Pass
102.39 - 98.5	Pole	TP30.415x29.703x0.1875	Pole	96.3%	Pass
98.5 - 98.25	Pole + Reinf.	TP30.46x30.415x0.3438	Reinf. 2 Tension Rupture	77.3%	Pass
98.25 - 93.25	Pole + Reinf.	TP31.375x30.46x0.3375	Reinf. 2 Tension Rupture	84.1%	Pass
93.25 - 88.25	Pole + Reinf.	TP32.29x31.375x0.3313	Reinf. 2 Tension Rupture	90.5%	Pass
88.25 - 83.87	Pole + Reinf.	TP33.96x32.29x0.3313	Reinf. 2 Tension Rupture	95.7%	Pass
83.87 - 78.13	Pole	TP33.763x32.716x0.25	Pole	86.5%	Pass
78.13 - 73.13	Pole	TP34.675x33.763x0.25	Pole	90.8%	Pass
73.13 - 69.92	Pole	TP35.259x34.675x0.25	Pole	93.3%	Pass
69.92 - 69.67	Pole + Reinf.	TP35.305x35.259x0.5	Reinf. 3 Tension Rupture	66.1%	Pass
69.67 - 64.67	Pole + Reinf.	TP36.216x35.305x0.4875	Reinf. 3 Tension Rupture	69.0%	Pass
64.67 - 59.67	Pole + Reinf.	TP37.127x36.216x0.4875	Reinf. 3 Tension Rupture	71.7%	Pass
59.67 - 57.25	Pole + Reinf.	TP37.568x37.127x0.4813	Reinf. 3 Tension Rupture	73.0%	Pass
57.25 - 57	Pole + Reinf.	TP37.614x37.568x0.4188	Reinf. 1 Tension Rupture	85.0%	Pass
57 - 52	Pole + Reinf.	TP38.525x37.614x0.4125	Reinf. 1 Tension Rupture	87.8%	Pass
52 - 48.76	Pole + Reinf.	TP40.121x38.525x0.4125	Reinf. 1 Tension Rupture	89.4%	Pass
48.76 - 42.24	Pole	TP39.803x38.616x0.3125	Pole	84.5%	Pass
42.24 - 37.24	Pole	TP40.714x39.803x0.3125	Pole	86.5%	Pass
37.24 - 32.24	Pole	TP41.625x40.714x0.3125	Pole	88.4%	Pass
32.24 - 27.24	Pole	TP42.536x41.625x0.3125	Pole	90.1%	Pass
27.24 - 22.24	Pole	TP43.447x42.536x0.3125	Pole	91.8%	Pass
22.24 - 17.25	Pole	TP44.357x43.447x0.3125	Pole	93.5%	Pass
17.25 - 17	Pole + Reinf.	TP44.403x44.357x0.625	Reinf. 4 Tension Rupture	61.8%	Pass
17 - 12	Pole + Reinf.	TP45.314x44.403x0.6125	Reinf. 4 Tension Rupture	63.0%	Pass
12 - 7	Pole + Reinf.	TP46.225x45.314x0.6125	Reinf. 4 Tension Rupture	64.1%	Pass
7 - 5.25	Pole + Reinf.	TP46.543x46.225x0.6125	Reinf. 4 Tension Rupture	64.5%	Pass
5.25 - 5	Pole + Reinf.	TP46.589x46.543x0.6	Reinf. 7 Compression	80.4%	Pass
5 - 0	Pole + Reinf.	TP47.5x46.589x0.5875	Reinf. 7 Compression	81.5%	Pass
				Summary	
			Pole	96.3%	Pass
			Reinforcement	95.7%	Pass
			Overall	96.3%	Pass

Additional Calculations

Section Elevation (ft)	Moment of Inertia (in^4)			Area (in^2)			% Capacity*								
	Pole	Reinf.	Total	Pole	Reinf.	Total	Pole	R1	R2	R3	R4	R5	R6	R7	R8
149 - 144	827	n/a	827	13.23	n/a	13.23	6.4%								
144 - 139	934	n/a	934	13.79	n/a	13.79	12.7%								
139 - 134	1051	n/a	1051	14.34	n/a	14.34	21.3%								
134 - 129	1177	n/a	1177	14.89	n/a	14.89	30.7%								
129 - 127.39	1219	n/a	1219	15.07	n/a	15.07	34.3%								
127.39 - 122.39	1299	n/a	1299	15.39	n/a	15.39	45.9%								
122.39 - 117.39	1442	n/a	1442	15.93	n/a	15.93	57.6%								
117.39 - 112.39	1595	n/a	1595	16.48	n/a	16.48	69.0%								
112.39 - 107.39	1758	n/a	1758	17.02	n/a	17.02	79.5%								
107.39 - 102.39	1933	n/a	1933	17.56	n/a	17.56	89.2%								
102.39 - 98.5	2076	n/a	2076	17.99	n/a	17.99	96.3%								
98.5 - 98.25	2085	1682	3767	18.02	13.50	31.52	52.8%		77.3%						
98.25 - 93.25	2280	1781	4061	18.56	13.50	32.06	58.3%		84.1%						
93.25 - 88.25	2487	1882	4369	19.10	13.50	32.60	63.7%		90.5%						
88.25 - 83.87	2677	1973	4651	19.58	13.50	33.08	68.3%		95.7%						
83.87 - 78.13	3772	n/a	3772	26.59	n/a	26.59	86.5%								
78.13 - 73.13	4088	n/a	4088	27.31	n/a	27.31	90.8%								
73.13 - 69.92	4300	n/a	4300	27.78	n/a	27.78	93.3%								
69.92 - 69.67	4317	4116	8433	27.82	24.38	52.19	47.2%			66.1%					
69.67 - 64.67	4662	4321	8984	28.54	24.38	52.91	49.8%			69.0%					
64.67 - 59.67	5026	4532	9558	29.26	24.38	53.64	52.4%			71.7%					
59.67 - 57.25	5208	4636	9844	29.61	24.38	53.99	53.6%			73.0%					
57.25 - 57	5227	3383	8610	29.65	18.00	47.65	61.6%	85.0%							
57 - 52	5619	3543	9162	30.37	18.00	48.37	64.3%	87.8%							
52 - 48.76	5883	3649	9532	30.84	18.00	48.84	66.0%	89.4%							
48.76 - 42.24	7715	n/a	7715	39.17	n/a	39.17	84.5%								
42.24 - 37.24	8261	n/a	8261	40.07	n/a	40.07	86.5%								
37.24 - 32.24	8833	n/a	8833	40.98	n/a	40.98	88.4%								
32.24 - 27.24	9430	n/a	9430	41.88	n/a	41.88	90.1%								
27.24 - 22.24	10053	n/a	10053	42.78	n/a	42.78	91.8%								
22.24 - 17.25	10703	n/a	10703	43.69	n/a	43.69	93.5%								
17.25 - 17	10736	10219	20955	43.73	40.00	83.73	47.9%				61.8%	61.8%			
17 - 12	11416	10626	22042	44.63	40.00	84.63	49.3%				63.0%	63.0%			
12 - 7	12123	11042	23165	45.54	40.00	85.54	50.6%				64.1%	64.1%			
7 - 5.25	12378	11189	23567	45.85	40.00	85.85	51.0%				64.5%	64.5%			
5.25 - 5	12414	10966	23381	45.90	35.25	81.15	51.5%						78.5%	80.4%	77.9%
5 - 0	13162	11362	24524	46.80	35.25	82.05	52.9%						79.8%	81.5%	79.1%

Note: Section capacity checked using 5 degree increments.
Rating per TIA-222-H Section 15.5.

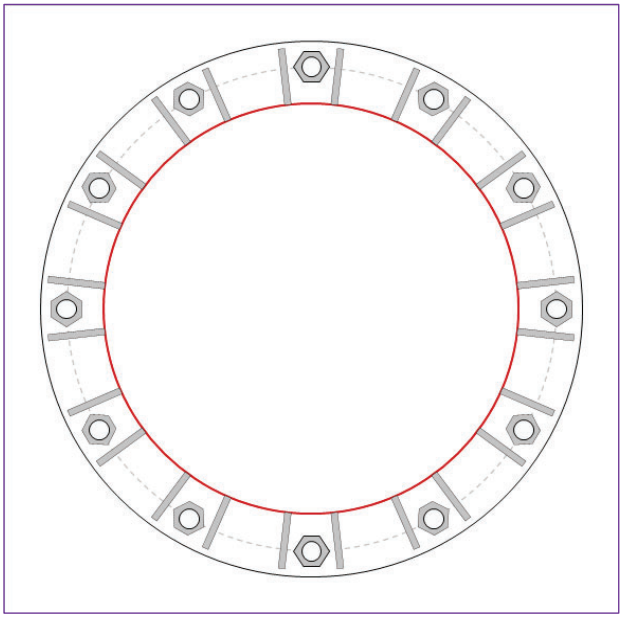
Monopole Base Plate Connection

Site Info	
BU #	842856
Site Name	ANDOVER NORTH
Order #	654611 REV. 2

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
l_{ar} (in)	2.25

Applied Loads	
Moment (kip-ft)	2960.49
Axial Force (kips)	41.84
Shear Force (kips)	26.37

**TIA-222-H Section 15.5 Applied*



Connection Properties

Anchor Rod Data

(12) 2-1/4" ø bolts (A615-75 N; Fy=75 ksi, Fu=100 ksi) on 56" BC

Base Plate Data

62" OD x 1.5" Plate (A572-60; Fy=60 ksi, Fu=75 ksi)

Stiffener Data

(24) 13"H x 6.5"W x 0.75"T, Notch: 0.75"
plate: Fy= 50 ksi ; weld: Fy= 80 ksi
horiz. weld: 0.375" groove, 45° dbl bevel, 0.25" fillet
vert. weld: 0.3125" fillet

Pole Data

47.5" x 0.3125" 18-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

Analysis Results

Anchor Rod Summary		*(units of kips, kip-in)*
Pu_t = 207.84	ϕPn_t = 243.75	**Stress Rating**
Vu = 2.2	ϕVn = 149.1	**81.2%**
Mu = n/a	ϕMn = n/a	**Pass**

Base Plate Summary		
Max Stress (ksi):	52.02	(Roark's Flexural)
Allowable Stress (ksi):	54	
Stress Rating:	**91.8%**	**Pass**

Stiffener Summary		
Horizontal Weld:	**44.7%**	**Pass**
Vertical Weld:	**50.9%**	**Pass**
Plate Flexure+Shear:	**23.2%**	**Pass**
Plate Tension+Shear:	**46.7%**	**Pass**
Plate Compression:	**61.6%**	**Pass**
Pole Summary		
Punching Shear:	**20.5%**	**Pass**

Pier and Pad Foundation

BU # :	842856
Site Name:	ANDOVER NORTH
App. Number:	654611 REV. 2

TIA-222 Revision:	H
Tower Type:	Monopole

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

Superstructure Analysis Reactions		
Compression, P_{comp}:	41.85	kips
Base Shear, Vu_comp:	26.36	kips
Moment, M_u:	2960.49	ft-kips
Tower Height, **H**:	149	ft
BP Dist. Above Fdn, bp_{dist}:	4.25	in

Pier Properties		
Pier Shape:	Circular	
Pier Diameter, **dpier**:	6.5	ft
Ext. Above Grade, **E**:	1	ft
Pier Rebar Size, **Sc**:	8	
Pier Rebar Quantity, **mc**:	40	
Pier Tie/Spiral Size, **St**:	4	
Pier Tie/Spiral Quantity, **mt**:	5	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier}:	3	in

Pad Properties		
Depth, **D**:	6.5	ft
Pad Width, W_1:	20.5	ft
Pad Thickness, **T**:	3	ft
Pad Rebar Size (Top dir.2), Sp_{top2}:	8	
Pad Rebar Quantity (Top dir. 2), mp_{top2}:	21	
Pad Rebar Size (Bottom dir. 2), Sp_2:	8	
Pad Rebar Quantity (Bottom dir. 2), mp_2:	25	
Pad Clear Cover, cc_{pad}:	3	in

Material Properties		
Rebar Grade, **Fy**:	60	ksi
Concrete Compressive Strength, **F'c**:	4	ksi
Dry Concrete Density, δc:	150	pcf

Soil Properties		
Total Soil Unit Weight, γ:	115	pcf
Ultimate Gross Bearing, Qult:	18.000	ksf
Cohesion, **Cu**:		ksf
Friction Angle, φ:	36	degrees
SPT Blow Count, N_{blows}:	47	
Base Friction, μ:		
Neglected Depth, **N**:	3.33	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, **gw**:	N/A	ft

<--Toggle between Gross and Net

Foundation Analysis Checks				
	Capacity	**Demand**	**Rating***	**Check**
Lateral (Sliding) (kips)	224.28	26.36	**11.2%**	**Pass**
Bearing Pressure (ksf)	13.50	4.38	**32.5%**	**Pass**
*Overturning (kip*ft)*	3826.51	3167.53	**82.8%**	**Pass**
*Pier Flexure (Comp.) (kip*ft)*	4735.63	3079.11	**61.9%**	**Pass**
Pier Compression (kip)	21120.36	68.73	**0.3%**	**Pass**
*Pad Flexure (kip*ft)*	2736.60	1605.80	**55.9%**	**Pass**
Pad Shear - 1-way (kips)	735.13	292.88	**37.9%**	**Pass**
Pad Shear - 2-way (Comp) (ksi)	0.190	0.000	**0.0%**	**Pass**
*Flexural 2-way (Comp) (kip*ft)*	3755.83	1847.47	**46.8%**	**Pass**

**Rating per TIA-222-H Section 15.5*

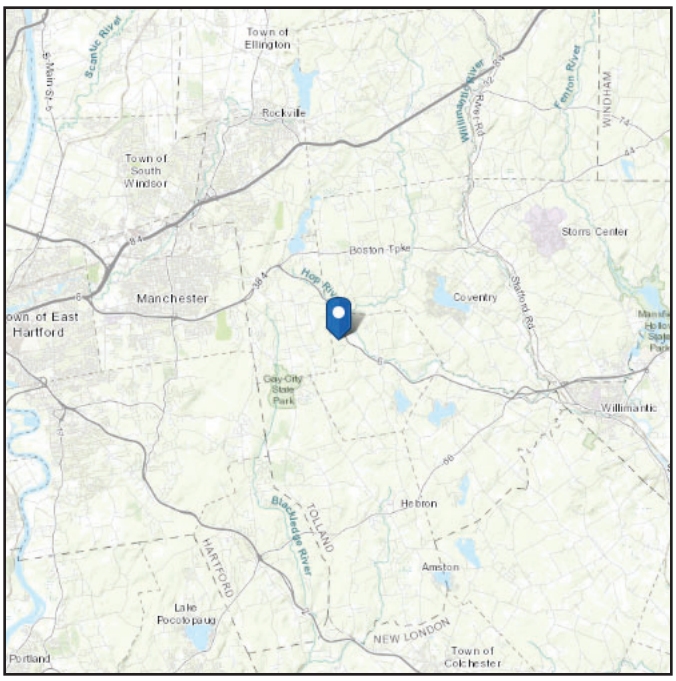
Structural Rating*:	**61.9%**
Soil Rating*:	**82.8%**

Version 5.0.2

ASCE 7 Hazards Report

Address:
No Address at This Location

Standard:	ASCE/SEI 7-16	**Latitude:**	41.750128
Risk Category:	II	**Longitude:**	-72.402675
Soil Class:	D - Default (see Section 11.4.3)	**Elevation:**	495.7566207165736 ft (NAVD 88)



Wind

Results:

Wind Speed	119 Vmph
10-year MRI	75 Vmph
25-year MRI	84 Vmph
50-year MRI	91 Vmph
100-year MRI	98 Vmph

Data Source:	ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed:	Fri Dec 15 2023

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

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

Seismic

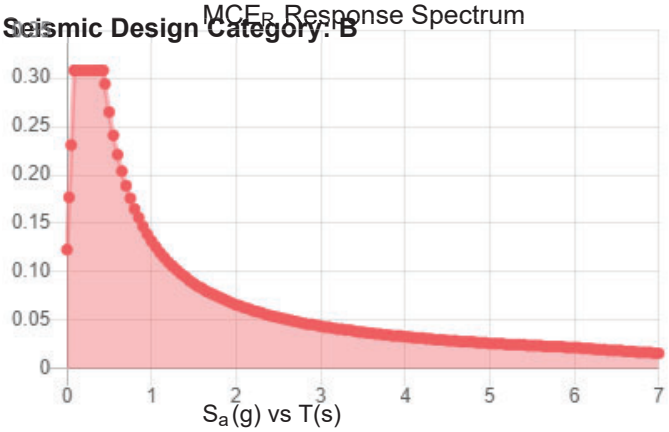
Site Soil Class: D - Default (see Section 11.4.3)

Results:

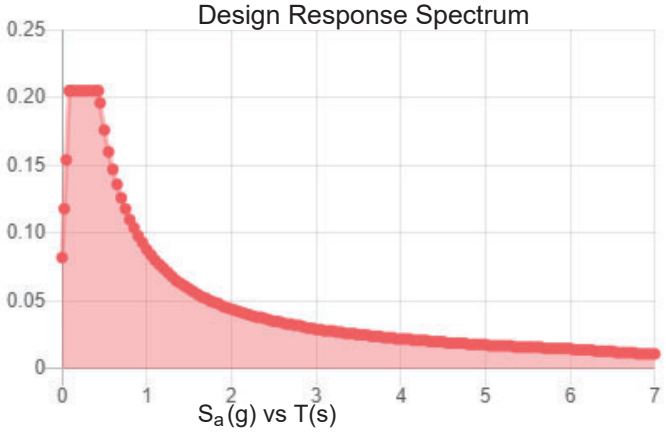
S_S :	0.193	S_{D1} :	0.088
S_1 :	0.055	T_L :	6
F_a :	1.6	PGA :	0.104
F_v :	2.4	PGA_M :	0.166
S_{MS} :	0.308	F_{PGA} :	1.591
S_{M1} :	0.132	I_e :	1
S_{DS} :	0.205	C_v :	0.7

Seismic Design Category: B

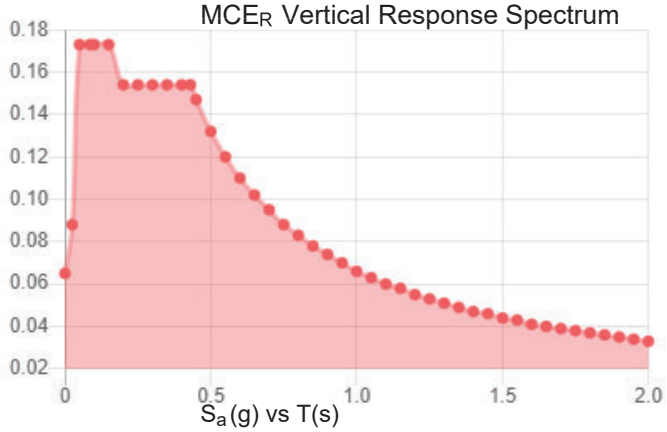
MCE_R Response Spectrum



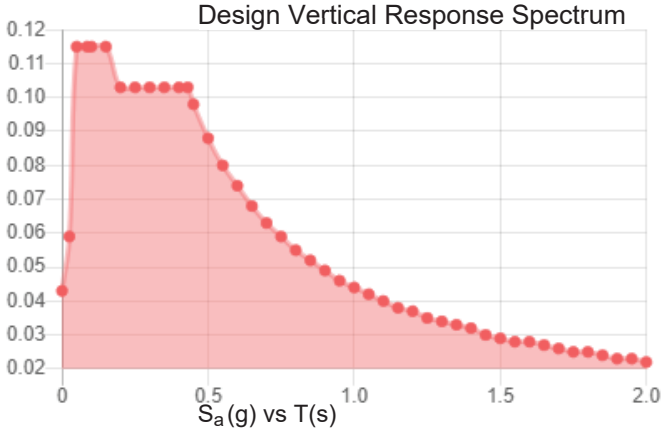
Design Response Spectrum



MCE_R Vertical Response Spectrum



Design Vertical Response Spectrum



Data Accessed: **Fri Dec 15 2023**

Date Source:

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

Ice

Results:

Ice Thickness:	1.50 in.
Concurrent Temperature:	15 F
Gust Speed	50 mph
Data Source:	Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8
Date Accessed:	Fri Dec 15 2023

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

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

NOTE:
AN ANALYSIS OF THE CAPACITY OF THE STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS NOT BEEN COMPLETED BY B+T GRP DRAWINGS ARE SUBJECT TO CHANGE PENDING OUTCOME OF A STRUCTURAL ANALYSIS.

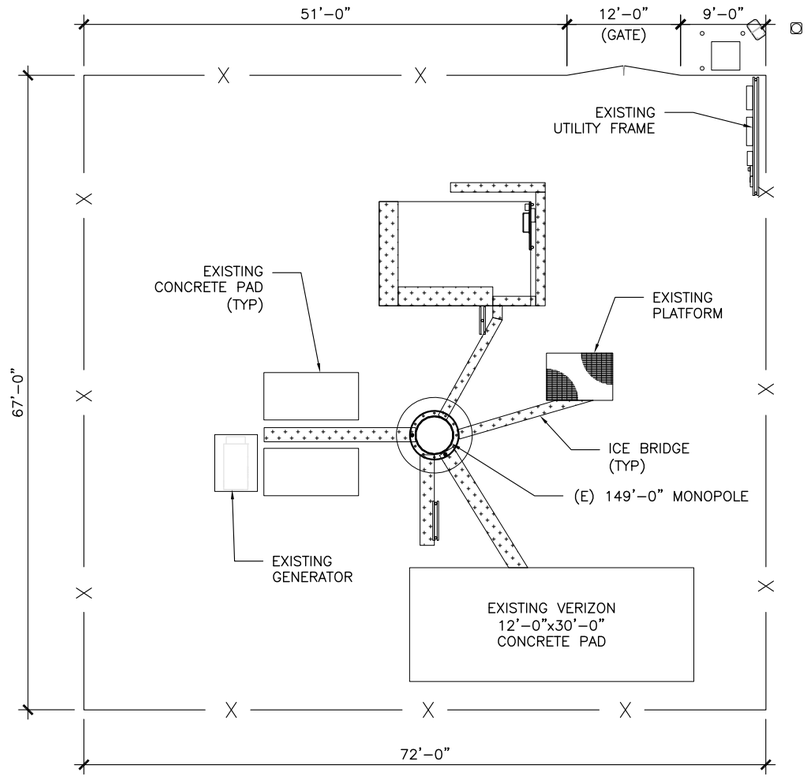
LEASE EXHIBIT:
THIS LEASE EXHIBIT IS DIAGRAMMATIC IN NATURE AND IS INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION AND SIZE OF THE PROPOSED WIRELESS COMMUNICATION FACILITY. THE SITE LAYOUT WILL BE FINALIZED UPON COMPLETION OF THE SITE SURVEY AND FACILITY DESIGN.

LOCATION MAP
N.T.S

APPROXIMATE COORDINATES:	LATITUDE:	41° 45' 0.46" N	41.750128 N
	LONGITUDE:	72° 24' 9.63" W	72.402675 W

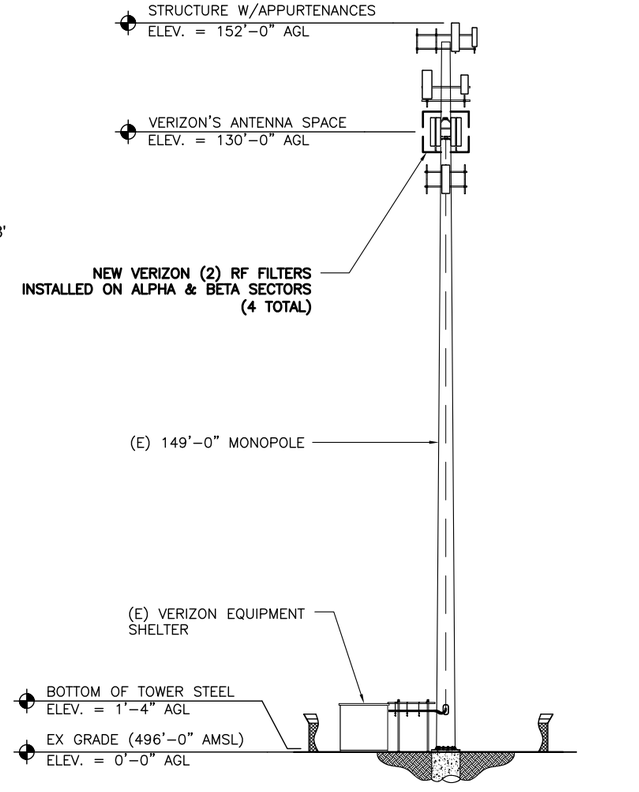
N

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



N

2 SITE PLAN
SCALE: 0' 8' 16' 32' 48'



3 TOWER ELEVATION
SCALE: : N.T.S

verizon

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

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

ANDOVER NORTH

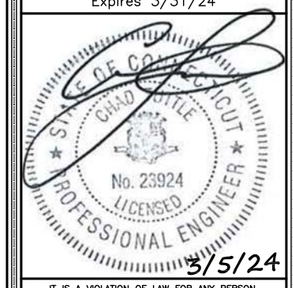
122 JONATHAN TRUMBULL HIGHWAY (ROUTE 6)
ANDOVER, CT 06232
EXISTING MONOPOLE

PROJECT NO:	135726.009.01
CHECKED BY:	RMC

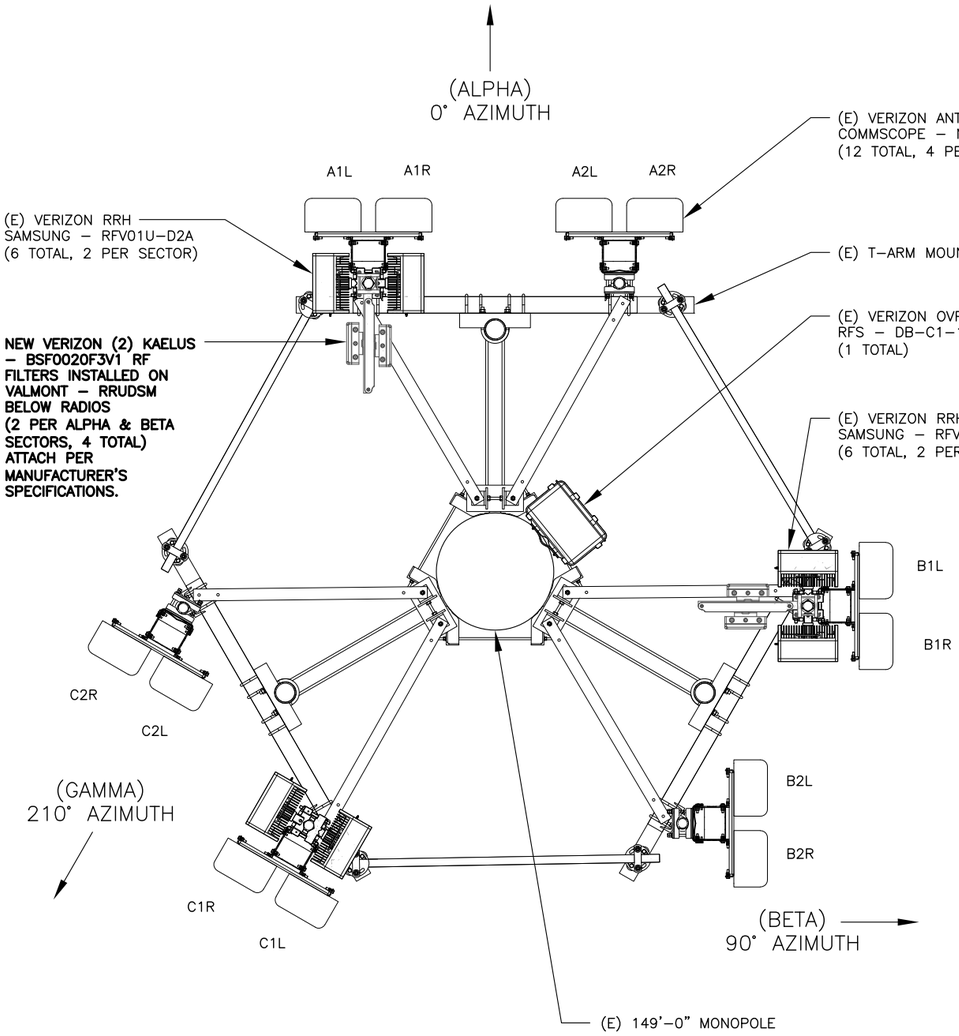
ISSUED FOR:

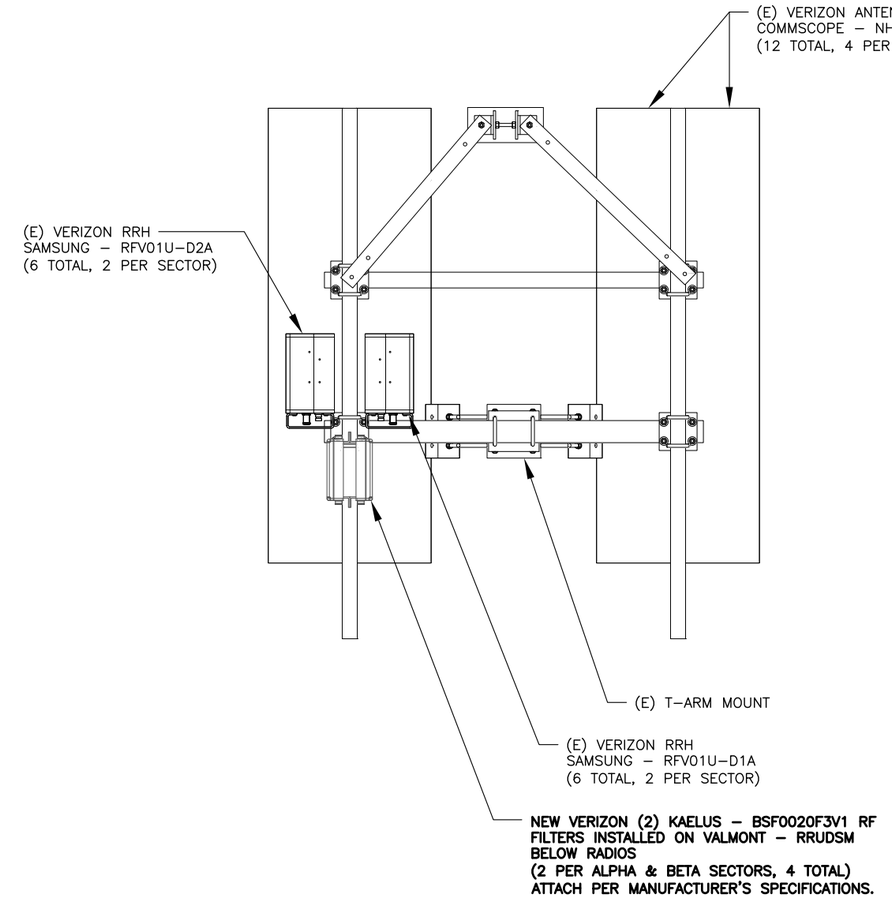
REV	DATE	DRWN	DESCRIPTION
0	8/28/23	TDG	ISSUED FOR REVIEW
1	3/5/24	YX	ISSUED FOR REVIEW

MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/24



SHEET NUMBER:	REVISION:
LE-1	1





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

N

2 PROPOSED RF FILTER ELEVATION - ALPHA & BETA SECTOR
SCALE: 0' 1' 2' 3' 4' 5'

verizon
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

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

122 JONATHAN TRUMBULL HIGHWAY
(ROUTE 6)
ANDOVER, CT 06232

EXISTING MONOPOLE

PROJECT NO:	135726.009.01
CHECKED BY:	RMC

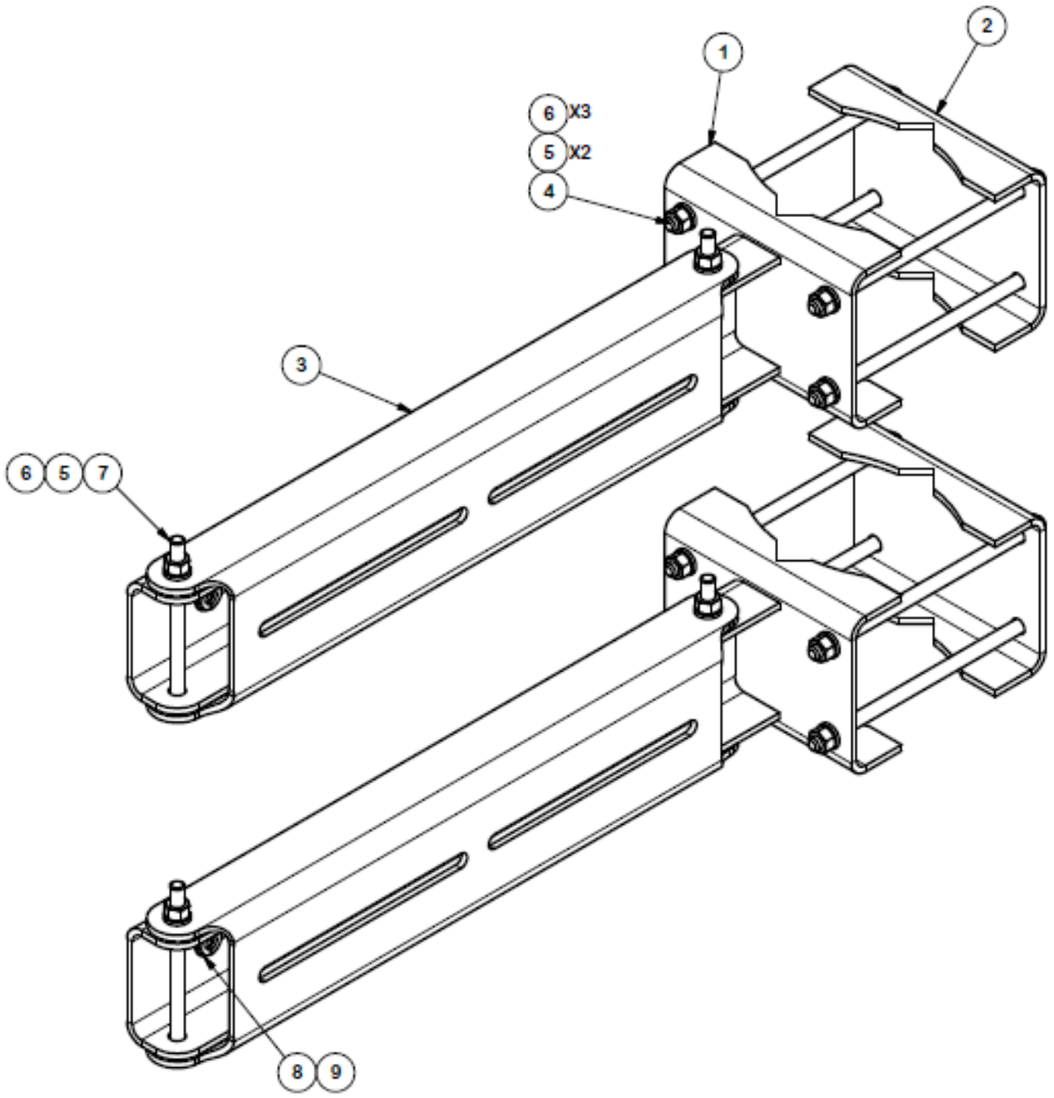
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
0	8/28/23	TDG	ISSUED FOR REVIEW
1	3/5/24	YX	ISSUED FOR REVIEW

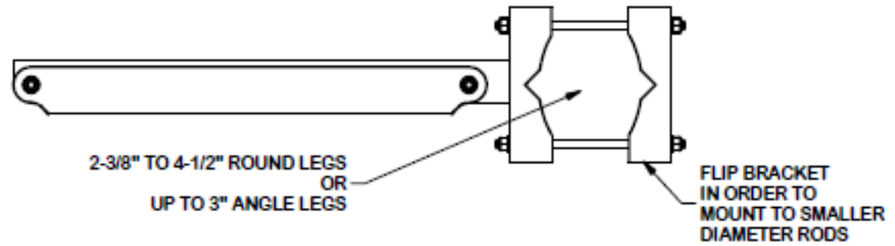
MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/24

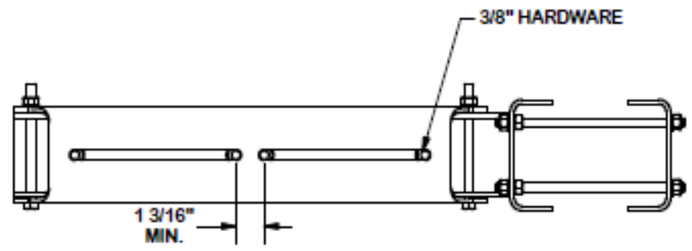
STATE OF CONNECTICUT
CHAD TUTTLE
No. 23924
LICENSED
PROFESSIONAL ENGINEER
3/5/24

SHEET NUMBER:	REVISION:
LE-2	1



PARTS LIST					
ITEM	QTY	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	2	MOUNTING ARM		8.99	17.97
2	2	CLAMP PLATE		2.35	4.69
3	2	SWIVEL MOUNT		6.65	13.30
4	8	3/8"-16 UNC X 8" GALV. THREADED ROD		0.25	2.00
5	20	3/8" GALV LOCK WASHER		0.01	0.13
6	28	3/8"-16 UNC GALV HEX NUT		0.02	0.52
7	4	3/8" X 5" GALV BOLT		0.18	0.71
8	8	3/8" SS FLAT WASHER		0.01	0.06
9	8	3/8" SS LOCK WASHER		0.01	0.05
				TOTAL WT. #	39.43





TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES *(± 0.030")*
DRILLED AND GAS CUT HOLES *(± 0.030")* **- NO CONING OF HOLES**
LASER CUT EDGES AND HOLES *(± 0.010")* **- NO CONING OF HOLES**
BENDS ARE ± 1/2 DEGREE
ALL OTHER MACHINING *(± 0.050")*
ALL OTHER ASSEMBLY *(± 0.060")*

DESCRIPTION
RRU
DUAL SWIVEL MOUNT

SITE PRO 1
A valmont COMPANY

Engineering Support Team:
1-888-753-7446

Locations:
New York, NY
Atlanta, GA
Los Angeles, CA
Plymouth, IN
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Dallas, TX

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	CEK 1/12/2015		RRUDSM	1 OF 1

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CANONSBURG PA 15317
724-416-2000

JPMorgan Chase Bank, N.A.
DALLAS TX
32-61/1110

2949901

SIX HUNDRED TWENTY FIVE AND 00/100********** DATE 04/01/24 $*******625.00

Pay To The Order Of Connecticut Siting Council
Ten Franklin Square
New Britain CT 06051

2695915

Robt A Cella VP and Controller
Assist. Secretary

VOID AFTER 180 DAYS

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Check No 2949901
Check Date 04/01/24

Stub 1 of 1

CKRQ 654611 ZN APP	03/27/24	Invoice Summ	625.00	625.00
			625.00	625.00