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

April 2, 2024

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

RE: **Notice of Exempt Modification for Verizon Wireless**
Crown #806365
46 Brendan Street, Stafford, CT 06076
Latitude: 41° 57′ 51.20″ / Longitude: -72° 18′ 17.80″

Dear Ms. Bachman:

Verizon Wireless currently maintains twelve (12) antennas at the 116-foot mount on the existing 135-foot monopole tower located at 46 Brendan Street, Stafford, CT. The property is owned by Tiziani LLC and the tower is owned by Crown Castle. Verizon now intends to add four (4) interference mitigation filters at the 116-foot level. This modification/proposal includes hardware that is both 4G (LTE) and 5G capable through remote software configuration and either or both services may be turned on or off at various times.

Panned Modification:

Tower:

Install New:
(4) Kaelus BSF0020F3V1- Interference Mitigation Filters

The facility was approved by the Connecticut Siting Council on December 5, 1994, Docket # 165. Please see attached.

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 William Morrison, First Selectman on behalf of the Town of Stafford and to Glenn Setzler, Chief Building Official. Notice is also being sent to Tiziani LLC as property owner and Crown Castle is the tower owner.

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

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

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

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

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

For the foregoing reasons, 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,

Jeff Barbadora

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

Attachments
cc:

William Morrison, First Selectman
Town of Stafford
1 Main Street
Stafford, CT 06076
860-684-1777

Glenn Setzler, Chief Building Official
Town of Stafford
1 Main Street
Stafford, CT 06076
860-684-1775

Tiziani LLC, Property Owner
c/o Glenn & Peter Tiziani
1014 Buckley Highway
Union, CT 06076

Crown Castle, Tower Owner

DOCKET NO. 165 - An application of Metro Mobile CTS of Hartford, Inc., for a Certificate of Environmental Compatibility and Need for the construction, maintenance, and operation of a cellular telecommunications facility located at 46 Brendan Street, Stafford, Connecticut.

Connecticut

Siting

Council

December 5, 1994

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 cellular telecommunications tower and equipment building at the proposed prime site in Stafford, Connecticut, 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 section 16-50k of the Connecticut General Statutes (CGS), be issued to Metro Mobile CTS of Hartford, Inc. (Metro Mobile), for the construction, operation, and maintenance of a cellular telecommunications tower, associated equipment, and building at the proposed prime site located off 46 Brendan Street, Stafford Springs, Connecticut. We find the effects on scenic resources and adjacent land uses of the alternate site to be significant, and therefore deny certification of this site.

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 self-supporting monopole tower shall be no taller than necessary to provide the proposed communications service and the tower shall not exceed a total height of 115 feet above ground level, with antennas and appurtenances.

2 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 (RCSA). The D&M Plan shall be submitted to and approved by the Council prior to the commencement of facility construction and shall include detailed plans for the tower location and tower foundation; the placement of all antennas to be attached to this tower; placement of the emergency generator, equipment building, fuel storage tank, access road, utility line, and security fence; site clearing and tree trimming; and water drainage and erosion and sedimentation controls consistent with the Connecticut Guidelines for Soil Erosion and Sedimentation Control (as amended).

3. The Certificate Holder shall acquire all regulatory permits and approvals prior to operation of the facility and submit copies upon receipt to the Council.

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

5. The Certificate Holder shall provide the Council a recalculated report of electromagnetic radio frequency power density if and when circumstances in operation cause a change in power density above the levels originally calculated and provided in the application.

6. 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.

7. If the facility does not initially provide, or permanently ceases to provide, cellular services following completion of construction, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapplication for any continued or new use shall be made to the Council before any such use is made

8. Unless otherwise approved by the Council, this Decision and Order shall be void if all construction authorized herein is not completed within three years of the effective date of this Decision and Order or within three years after all appeals to this Decision and Order have been resolved.

9. The Certificate Holder shall notify the Council upon completion of construction.

Pursuant to CGS section 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 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 RCSA.

The parties and intervenors to this proceeding are:

APPLICANT	ITS REPRESENTATIVES
Metro Mobile CTS of Hartford, Inc.	Metro Mobile CTS of Hartford, Inc 20 Alexander Drive Wallingford, CT 06492 Attn: David S Malko, P.E., Manager Engineering & Regulatory Services Robinson & Cole One Commercial Plaza Hartford, CT 06103-3597 Attn: Brian C. S. Freeman, Esq
INTERVENOR	**ITS REPRESENTATIVE**
Springwich Cellular Limited Partnership	Peter J. Tyrrell, Esq. Springwich Cellular Limited Partnership 227 Church Street New Haven, CT 06510

CERTIFICATION

The Undersigned members of the Connecticut Siting Council (Council) hereby certify that they have heard this case, or read the record thereof, in DOCKET NO 165 - An application of Metro Mobile CTS of Hartford, Inc , for a Certificate of Environmental Compatibility and Need for the construction, maintenance, and operation of a cellular telecommunications facility located at 46 Brendan Street, Stafford, Connecticut, and voted as follows:

Council Members	Vote Cast
Mortimer A Gelston Chairman	YES
Commissioner Reginald J. Smith Designee: Gerald J Heffernan	YES
Commissioner Timothy R.E. Keeney Designee Brian Emerick	YES
Harry E Covey	YES
Daniel P Lynch, Jr.	YES
Gloria Dibble Pond	YES
William H Smith	YES
Colin C Tait	ABSENT
Dana J Wright	ABSENT

Dated at New Britain, Connecticut, December 5, 1994

STATE OF CONNECTICUT)

ss. New Britain, Connecticut
COUNTY OF HARTFORD)

I hereby certify that the foregoing is a true and correct copy of the Findings of Fact, Opinion, and Decision and Order issued by the Connecticut Siting Council, State of Connecticut.

ATTEST:

Joel M. Rinebold
Executive Director
Connecticut Siting Council

I certify that a copy of the Findings of Fact, Opinion, and Decision and Order in Docket No. 165 have been forwarded by Certified First Class Return Receipt Requested mail on December 8, 1994, to all parties and intervenors of record as listed on the attached service list, dated August 9, 1994.

ATTEST:

Stanley J. Modzelesky
Executive Secretary
Connecticut Siting Council

46 BRENDAN ST

Location	46 BRENDAN ST	**Mblu**	49/ / 4/ /
Acct#	00284400	**Owner**	TIZIANI LLC
Assessment	$206,990	**Appraisal**	$295,700
PID	3247	**Building Count**	1

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2020	$18,400	$277,300	$295,700
Assessment			
Valuation Year	Improvements	Land	Total
2020	$12,880	$194,110	$206,990

Owner of Record

Owner	TIZIANI LLC
Co-Owner	C/O TIZIANI GLENN+PETER
Address	1014 BUCKLEY HWY UNION, CT 06076

Sale Price	$0
Certificate	1
Book & Page	0334/0507
Sale Date	02/26/1996
Instrument	

Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
TIZIANI LLC	$0	1	0334/0507		02/26/1996
TIZIANI GLENN+PETER	$60,000	2	0195/0177	25	04/20/1982

Building Information

Building 1 : Section 1

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

Building Attributes

Field	Description
Style	Vacant
Model	
Grade:	
Stories	
Occupancy	
Exterior Wall 1	
Exterior Wall 2	
Roof Structure	
Roof Cover	
Interior Wall 1	
Interior Wall 2	
Interior Flr 1	
Interior Flr 2	
Heat Fuel	
Heat Type:	
AC Type:	
Total Bedrooms:	
Full Bthrms:	
Half Baths:	
Extra Fixtures	
Total Rooms:	
Bath Style:	
Kitchen Style:	
Num Kitchens	
Fireplaces	
Extra Openings	
Prefab Fpl(s)	
Attic Type	
Bsmt Type	
Bsmt Garage(s)	
Fin Bsmnt	
Fn. Bmt. Qual.	
Unfin Area	
Fndtn Cndtn	
Basement	
Usrfld 706	

Building Photo

(https://images.vgsi.com/photos2/StaffordCTPhotos/\00\01\26\17.jpg)

Building Layout

(ParcelSketch.ashx?pid=3247&bid=3247)

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

Extra Features

Extra Features	Legend
No Data for Extra Features	

Land

Land Use

Use Code	300
Description	Ind Land
Zone	A
Neighborhood	502
Alt Land Appr	No
Category	

Land Line Valuation

Size (Acres)	14.50
Frontage	
Depth	
Assessed Value	$194,110
Appraised Value	$277,300

Outbuildings

Outbuildings						Legend
Code	**Description**	**Sub Code**	**Sub Description**	**Size**	**Value**	**Bldg #**
FN1	FENCE-4' CHAIN			1440.00 L.F.	$600	1
SHD1	Shed	MS	Masonry	600.00 S.F.	$4,800	1
SHD1	Shed	MS	Masonry	200.00 S.F.	$1,600	1
SHD1	Shed	MS	Masonry	200.00 S.F.	$1,600	1
PAV1	Paving Asphalt			10000.00 S.F.	$9,800	1

Valuation History

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2023	$18,400	$277,300	$295,700
2021	$18,400	$277,300	$295,700
2020	$18,400	$277,300	$295,700

Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2023	$12,880	$194,110	$206,990
2021	$12,880	$194,110	$206,990
2020	$12,880	$194,110	$206,990

46 Brendan Street

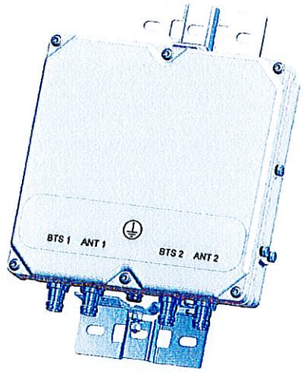
N
W E
S

CRCOG CAPITOL REGION COUNCIL OF GOVERNMENTS
Working together for a better region.

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.

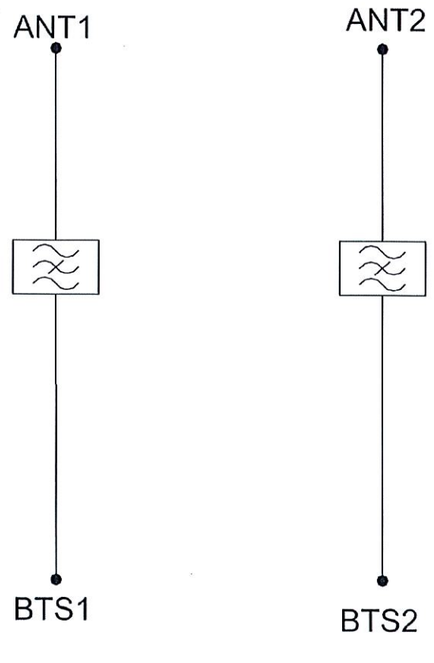
Contact Us +1 303 758 8080 | +61 (0) 7 3907 1200 | www.kaelus.com

ORDERING INFORMATION

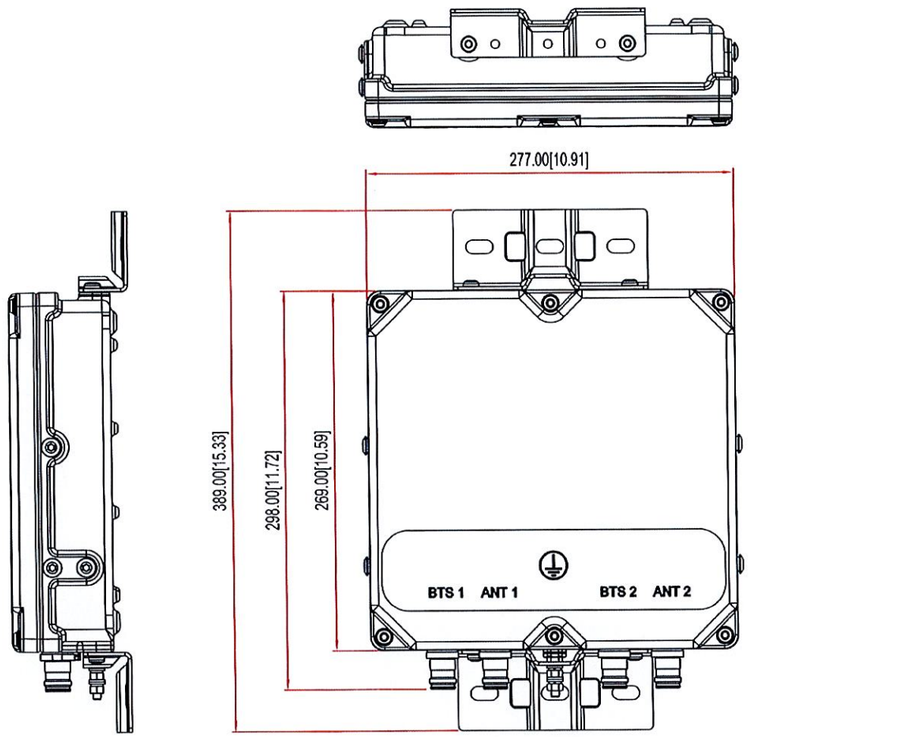
PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	CONNECTORS
BSF0020F3V1	TWIN, 2 in / 2 out	DC/AISG PASS NO BRACKET	4.3-10 (F)
BSF0020F3V1-1	TWIN, 2 in / 2 out	DC/AISG PASS	4.3-10 (F)
BSF0020F3V1-2	QUAD, 4 in / 4 out	DC/AISG PASS	4.3-10 (F)

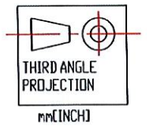
Contact Us: +1 303 768 5080 | +61 (0) 7 3907 1200 | www.kaelus.com

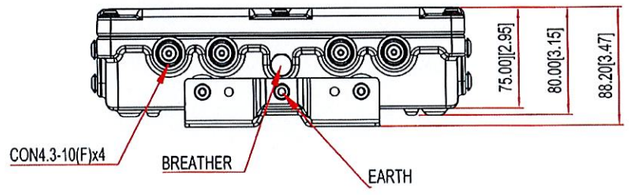
ELECTRICAL BLOCK DIAGRAM



MECHANICAL BLOCK DIAGRAM







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

Barbadora, Jeff

From: TrackingUpdates@fedex.com
Sent: Wednesday, May 29, 2024 11:15 AM
To: Barbadora, Jeff
Subject: FedEx Shipment 776578390505: Your package has been delivered

FedEx

Hi. Your package was delivered Wed, 05/29/2024 at 11:07am.

Delivered to 1 MAIN ST, STAFFORD SPRINGS, CT 06076
Received by D.MOULTON

OBTAIN PROOF OF DELIVERY

How was your delivery ?

TRACKING NUMBER	776578390505
FROM	Crown Castle 1800 W. Park Drive WESTBOROUGH, MA, US, 01581
TO	Town of Stafford William Morrison, First Selectman 1 Main Street STAFFORD SPRINGS, CT, US, 06076
REFERENCE	799001.7680
SHIPPER REFERENCE	799001.7680
SHIP DATE	Tue 5/28/2024 05:58 PM
DELIVERED TO	Receptionist/Front Desk
PACKAGING TYPE	FedEx Envelope
ORIGIN	WESTBOROUGH, MA, US, 01581
DESTINATION	STAFFORD SPRINGS, CT, US, 06076
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, May 29, 2024 11:15 AM
To: Barbadora, Jeff
Subject: FedEx Shipment 776578452036: Your package has been delivered

FedEx

Hi. Your package was delivered Wed, 05/29/2024 at 11:07am.

Delivered to 1 MAIN ST, STAFFORD SPRINGS, CT 06076
Received by D.MOULTON

OBTAIN PROOF OF DELIVERY

How was your delivery ?

TRACKING NUMBER	776578452036
FROM	Crown Castle 1800 W. Park Drive WESTBOROUGH, MA, US, 01581
TO	Town of Stafford Glen Setzler, Chief Bldg Inspector 1 Main Street STAFFORD SPRINGS, CT, US, 06076
REFERENCE	799001.7680
SHIPPER REFERENCE	799001.7680
SHIP DATE	Tue 5/28/2024 05:58 PM
DELIVERED TO	Receptionist/Front Desk
PACKAGING TYPE	FedEx Envelope
ORIGIN	WESTBOROUGH, MA, US, 01581
DESTINATION	STAFFORD SPRINGS, CT, US, 06076
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	0.50 LB
SERVICE TYPE	FedEx Standard Overnight

Barbadora, Jeff

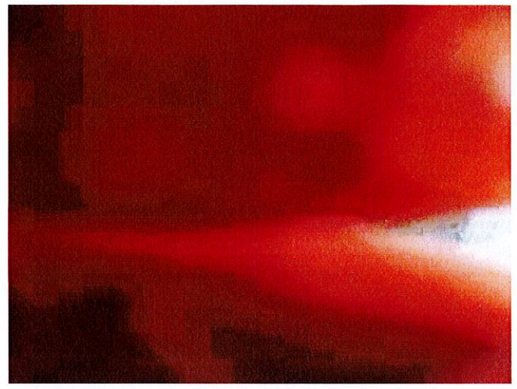
From: TrackingUpdates@fedex.com
Sent: Wednesday, May 29, 2024 12:53 PM
To: Barbadora, Jeff
Subject: FedEx Shipment 776578547279: Your package has been delivered
Attachments: DeliveryPicture.jpeg

FedEx

Hi. Your package was delivered Wed, 05/29/2024 at 12:47pm.

Delivered to 1014 BUCKLEY HWY, UNION, CT 06076

OBTAIN PROOF OF DELIVERY



Delivery picture not showing? View in browser.

How was your delivery ?

☆ ☆ ☆ ☆ ☆

TRACKING NUMBER	776578547279
FROM	Crown Castle 1800 W. Park Drive WESTBOROUGH, MA, US, 01581
TO	Property Owner Tiziani LLC 1014 Buckley Highway UNION, CT, US, 06076
REFERENCE	799001.7680
SHIPPER REFERENCE	799001.7680
SHIP DATE	Tue 5/28/2024 05:58 PM
DELIVERED TO	Residence
PACKAGING TYPE	FedEx Envelope
ORIGIN	WESTBOROUGH, MA, US, 01581
DESTINATION	UNION, CT, US, 06076
SPECIAL HANDLING	Deliver Weekday Residential Delivery

Colliers Engineering & Design,
Architecture, Landscaping Architecture,
Surveying, CT, P.C.2000 Midlantic Drive,
Suite 100
Mt. Laurel, NJ 08054
856.797.0412
peter.albano@collierseng.com

Antenna Mount Analysis Report and PMI Requirements

Mount ReAnalysis

SMART Tool Project #: 10206813
Colliers Engineering & Design Project #: 23777115 (Rev. 1)

May 14, 2024

Site Information	*Site ID:*	*5000244500-VZW / STAFFORD CT*
	Site Name:	*STAFFORD CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*200 Brendan St.* *Stafford, Connecticut 06076* *Tolland County*
	Latitude:	*41.964263°*
	Longitude:	*-72.30508°*
Structure Information	*Tower Type:*	*Monopole*
	Mount Type:	*12.50-Ft Platform*

FUZE ID # 17123859

Analysis Results

Platform: **97.6% Pass***

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

******Contractor PMI Requirements*:**
Included at the end of this MA report
Available & Submitted via portal at https://pmi.vzwsmart.com

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

Report Prepared By: Vincent DiGirolamo

Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	*Verizon RFDS Site ID: 324898* *Dated May 16, 2022*
Previous Mount Analysis Report	*Maser Consulting Connecticut Project #: 22777109* *Dated June 9, 2022*
Desktop Mount Mapping Report	*Colliers Engineering & Design CT, PC Project #: 22777109* *Dated June 3, 2022*
Filter Add Scope	*Provided by Verizon Wireless*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H 2022 Connecticut State Building Code (DSBC), 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:	B
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	0.972
Seismic Parameters:	S_S:	0.176 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 mount:

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
113.12	115.20	3	Commscope	NHH-65B-R2B	Retained
		3	Commscope	NHHSS-65B-R2BT4	
		3	Samsung	MT6407-77A	
		2	Raycap	RVZDC-6627-PF-48	
		3	Samsung	RF4439d-25A	
		3	Samsung	RF4440d-13A	
		3	Samsung	CBRS RRH - RT4401-48A	
		3	Andrew	LNX-8514DS-A1M	
		4	KAelus	BSF0020F3V1-1	Added

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

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

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Colliers Engineering & Design CT, PC 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 CT, PC 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 CT, PC 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 CT, PC.

Analysis Results:

Component	Utilization %	Pass/Fail
Face Horizontal	*78.8%*	*Pass*
Standoff	*87.1%*	*Pass*
Standoff Brace	*82.2%*	*Pass*
Standoff Tab	*97.6%*	*Pass*
Corner Plate	*39.3%*	*Pass*
Support Rail	*45.2%*	*Pass*
Support Rail Plate	*12.5%*	*Pass*
Mount Pipe	*63.5%*	*Pass*
Mount Connection	*49.6%*	*Pass*

Structure Rating – *(Controlling Utilization of all Components)*	**97.6%**

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

Ice Thickness (In)	Mount Pipes Excluded		Mount Pipes Included	
	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	35.3	35.3	50.2	50.2
0.5	41.7	41.7	62.9	62.9
1	47.8	47.8	75.4	75.4

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

Requirements:

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

Contractor shall record all dimensions and member sizes requested in the Mount Geometry Verification Requirements section of the Mount Analysis report. Contractor shall provide the requested information to Colliers Engineering & Design for structural verification while on site. Contact EOR if these documents are not available to the general contractor. Contractor shall inspect climbing facilities and safety climb, if present, 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.

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

Attachments:

1. **Contractor Required Post Installation Inspection (PMI) Report Deliverables**
2. Antenna Placement Diagrams
3. Mount Photos
4. Desktop 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 #: 5000244500 SMART Project #: 10206813 Fuze Project ID: 17123859

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:

1.Contractor shall record all dimensions and member sizes requested in the Mount Geometry Verification Requirements section of the Mount Analysis report. Contractor shall provide the requested information to Colliers Engineering & Design for structural verification while on site. Contact EOR if these documents are not available to the general contractor. 2.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. 3.Contractor shall inspect climbing facilities and safety climb, if present, 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:

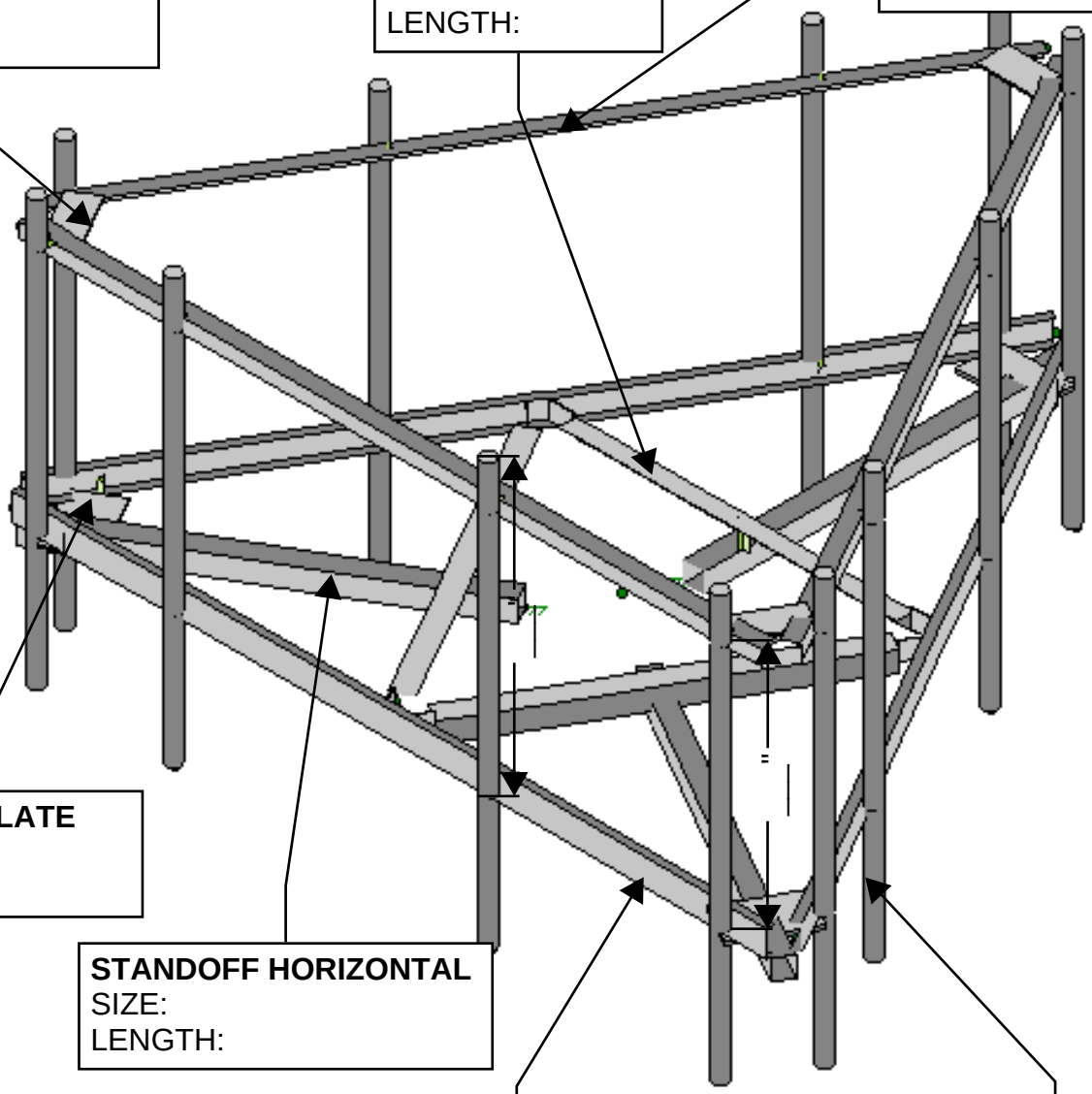
Company:	
Employee Name:	
Contact Phone:	
Email:	
Date:	

MOUNT GEOMETRY VERIFICATION

SUPPORT RAIL BRACE
SIZE:
LENGTH:

CROSS MEMBER
SIZE:
LENGTH:

SUPPORT RAIL:
SIZE:
LENGTH:



CORNER PLATE
SIZE:
LENGTH:

STANDOFF HORIZONTAL
SIZE:
LENGTH:

FACE HORIZONTAL
SIZE:
LENGTH:

MOUNT PIPE
SIZE:
LENGTH:

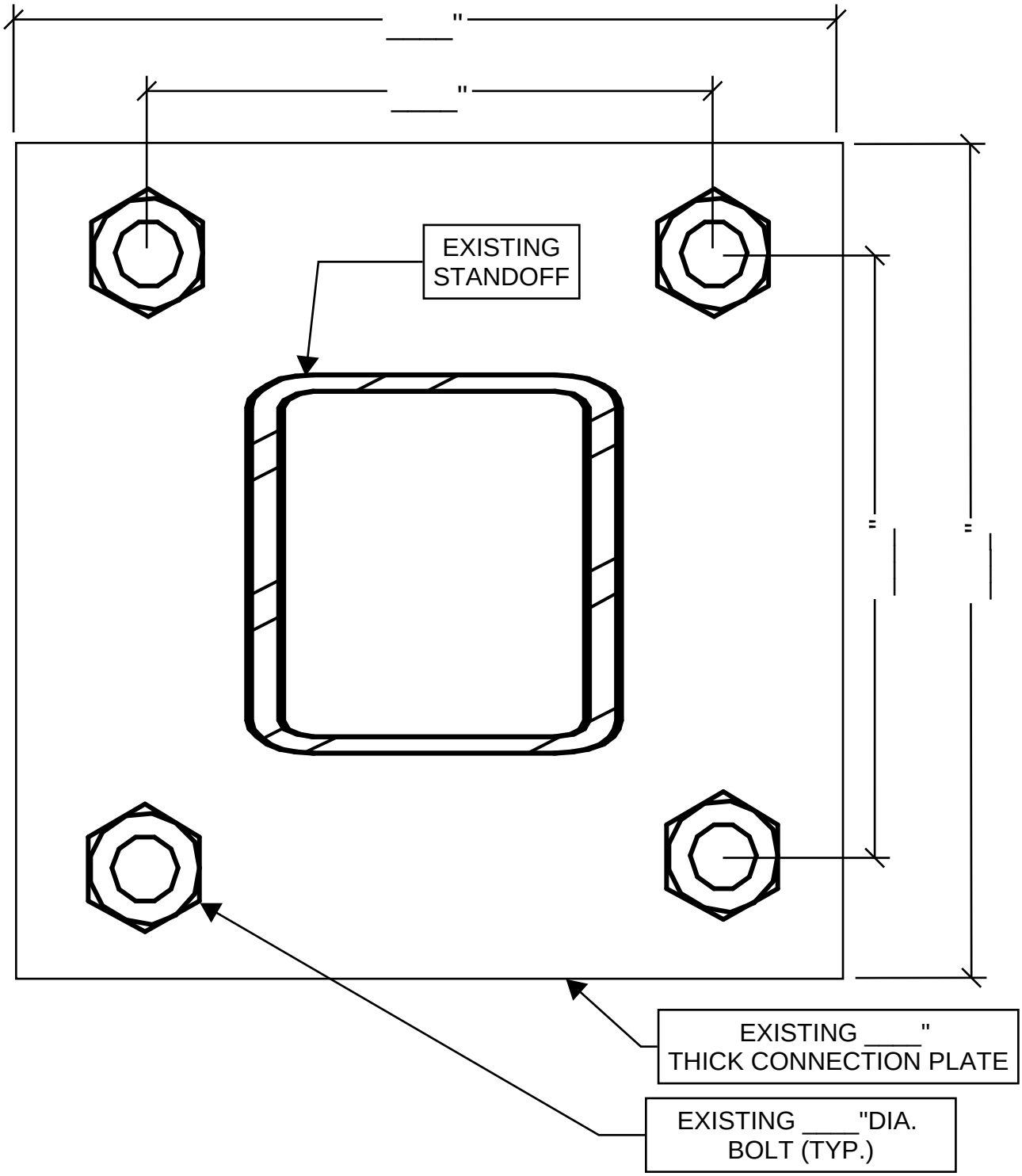
TOWER GEOMETRY VERIFICATION

MONOPOLE DIAMETER: ___"

MOUNT ISOMETRIC VIEW
N.T.S

CONTRACTOR SHALL MEASURE ALL DIMENSIONS AND MEMBER SIZES REQUESTED ON THIS SKETCH. RECORD VIA PHOTOS AND MARKUPS ON THIS PAGE. PROVIDE PHOTOS AND MARKED-UP SKETCH TO THE EOR FOR EVALUATION.

MOUNT GEOMETRY VERIFICATION



CONNECTION GEOMETRY (TYP. ALL SECTORS)

N.T.S.

CONTRACTOR SHALL MEASURE ALL DIMENSIONS AND MEMBER SIZES REQUESTED ON THIS SKETCH. RECORD VIA PHOTOS AND MARKUPS ON THIS PAGE. PROVIDE PHOTOS AND MARKED-UP SKETCH TO THE EOR FOR EVALUATION.

MOUNT GEOMETRY VERIFICATION

STANDARD PIPE DIMENSIONS				
		THICKNESS (IN.)		
PIPE SIZE	O.D. (IN.)	STD	XSTR	XXSTR
P1 1/2	1.900	0.145	0.200	0.400
P2	2.375	0.154	0.218	0.436
P2 1/2	2.875	0.203	0.276	0.552
P3	3.500	0.216	0.300	0.600
P3 1/2	4.000	0.226	0.318	0.636
P4	4.500	0.237	0.337	0.674
P4 1/2	5.000	0.247	0.355	0.710
P5	5.563	0.258	0.375	0.750
P6	6.625	0.280	0.432	0.864

CONTRACTOR SHALL USE MEMBER SIZES AND DETAILS TO FACILITATE GEOMETRY VERIFICATION. CONTACT EOR FOR ADDITIONAL CLARIFICATION IF NEEDED

Structure: 5000244500-VZW - STAFFORD CT

Sector: **A**

Structure Type: Monopole

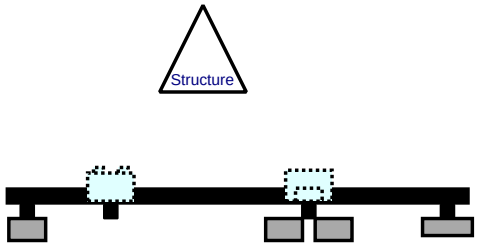
Mount Elev: 113.12

10206813

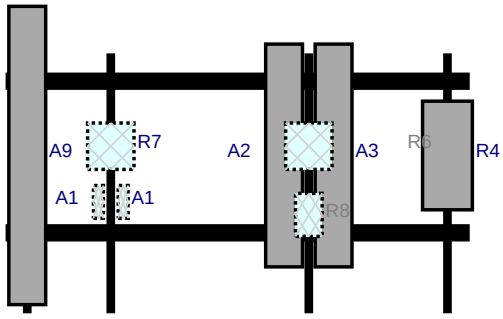
5/14/2024

Page: 1

Plan View



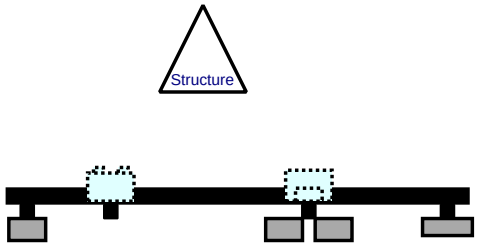
Front View - Looking at Structure



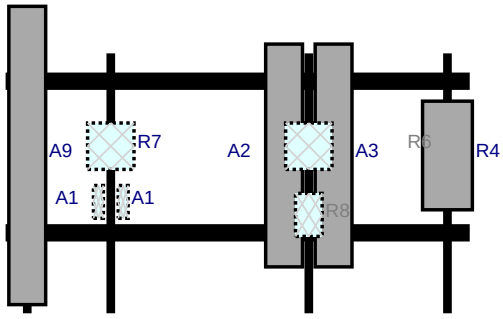
4 3 2 1

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
R4	MT6407-77A	35.1	16.1	142.8	1	a	Front	33	0	Retained	09/14/2023
A2	NHH-65B-R2B	72	11.9	98	2	a	Front	33	-8	Retained	09/14/2023
A3	NHHSS-65B-R2BT4	72	11.9	98	2	a	Front	33	8	Retained	09/14/2023
R6	RF4439d-25A	15	15	98	2	a	Behind	30	0	Retained	09/14/2023
R8	CBRS RRH - RT4401-48A	13.9	8.6	98	2	a	Behind	52.2	0	Retained	09/14/2023
A1	BSF0020F3V1-1	10.6	3.2	34	3	a	Behind	48	4	Added	
A1	BSF0020F3V1-1	10.6	3.2	34	3	b	Behind	48	-4	Added	
R7	RF4440d-13A	15	15	34	3	a	Behind	30	0	Retained	09/14/2023
A9	LNX-8514DS-A1M	96.4	11.9	7	4	a	Front	33	0	Retained	09/14/2023
OVP1	RVZDC-6627-PF-48	29.5	16.5		Member					Retained	09/14/2023

Plan View



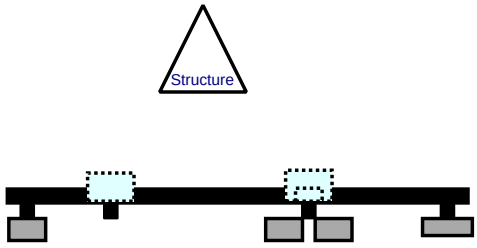
Front View - Looking at Structure



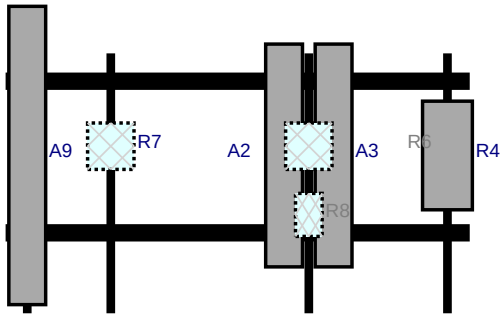
4 3 2 1

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
R4	MT6407-77A	35.1	16.1	142.8	1	a	Front	33	0	Retained	09/14/2023
A2	NHH-65B-R2B	72	11.9	98	2	a	Front	33	-8	Retained	09/14/2023
A3	NHHSS-65B-R2BT4	72	11.9	98	2	a	Front	33	8	Retained	09/14/2023
R6	RF4439d-25A	15	15	98	2	a	Behind	30	0	Retained	09/14/2023
R8	CBRS RRH - RT4401-48A	13.9	8.6	98	2	a	Behind	52.2	0	Retained	09/14/2023
A1	BSF0020F3V1-1	10.6	3.2	34	3	a	Behind	48	4	Added	
A1	BSF0020F3V1-1	10.6	3.2	34	3	b	Behind	48	-4	Added	
R7	RF4440d-13A	15	15	34	3	a	Behind	30	0	Retained	09/14/2023
A9	LNX-8514DS-A1M	96.4	11.9	7	4	a	Front	33	0	Retained	09/14/2023
OVP	RVZDC-6627-PF-48	29.5	16.5		Member					Retained	09/14/2023

Plan View



Front View - Looking at Structure



4 3 2 1

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
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A2	NHH-65B-R2B	72	11.9	98	2	a	Front	33	-8	Retained	09/14/2023
A3	NHHSS-65B-R2BT4	72	11.9	98	2	a	Front	33	8	Retained	09/14/2023
R6	RF4439d-25A	15	15	98	2	a	Behind	30	0	Retained	09/14/2023
R8	CBRS RRH - RT4401-48A	13.9	8.6	98	2	a	Behind	52.2	0	Retained	09/14/2023
R7	RF4440d-13A	15	15	34	3	a	Behind	30	0	Retained	09/14/2023
A9	LNX-8514DS-A1M	96.4	11.9	7	4	a	Front	33	0	Retained	09/14/2023

Colliers Engineering & Design

Desktop Mount Mapping Form

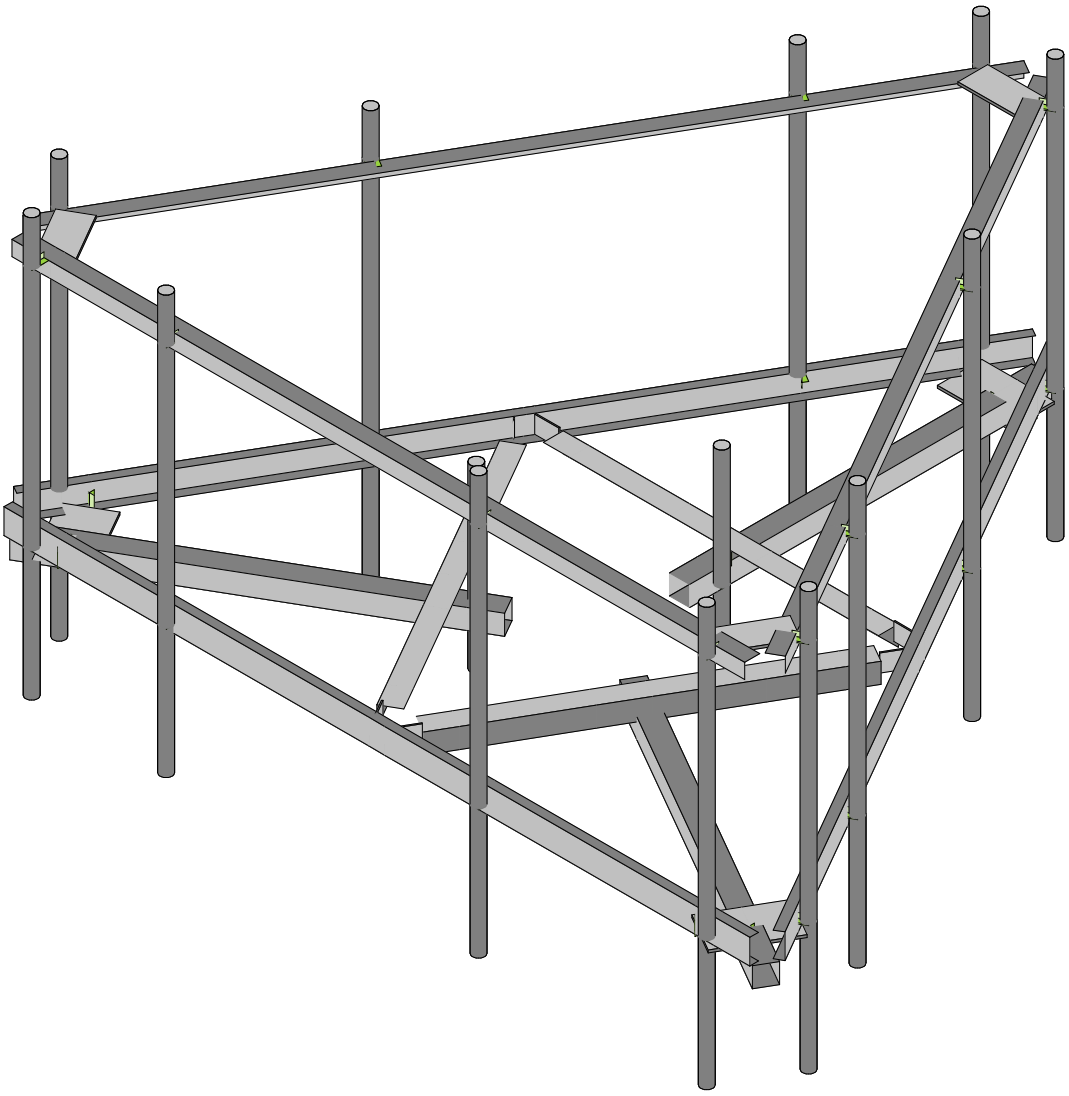
Site Name:	Stafford CT	**Tower Type:**	Monopole
Site ID:	467489	**Tower Owner:**	
FUZE Project ID:	16244115	**Tower Height (Ft.):**	
Customer:	Verizon Wireless	**Mount Elevation (Ft.):**	
Colliers Project No.	22777109A	**Date:**	6/3/2022

Document Type	Provided? (Yes/No)	Source Name	Project No.	Dated	Comments/Remarks
Previous Mount Mapping	No				
Previous Mapping Photos	No				
Previous Mount Analysis	No				
Previous Mount Modifications	No				
Previous Structural Analysis	No				
Construction Drawings	No				
Closeout Package	No				
Closeout Photos	No				
Handover Package	No				
New Build 445 Documentation	No				
Other	Yes	Ground Mapping	-	5/31/2022	Ground photos show standard platform mount
Previous PMI	No				

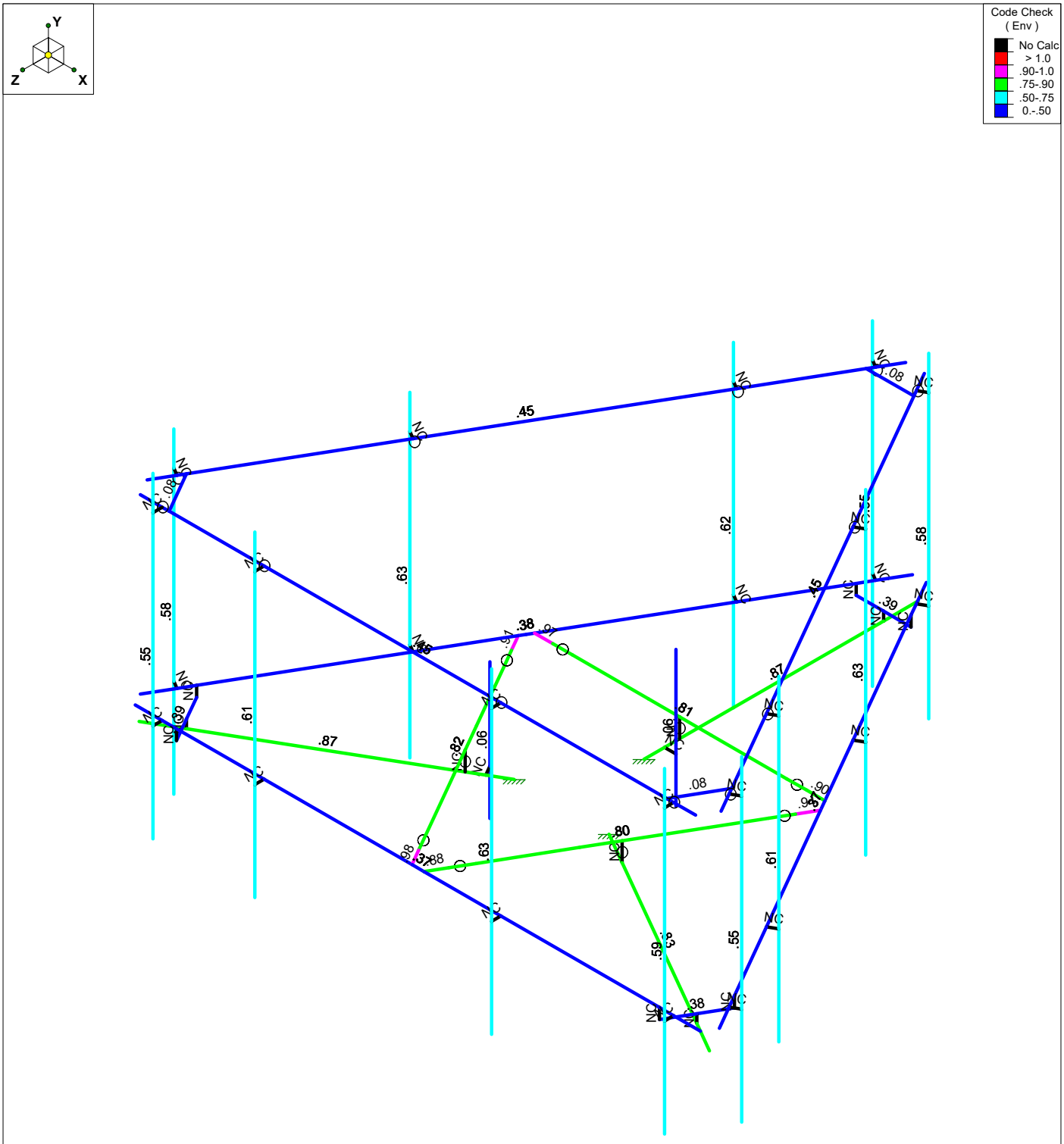
The desktop mount mapping is based on the engineering review of the available site documents in FUZE, as listed above, in place of a full mount mapping. It is assumed that the information provided in the documents listed above, provide an accurate representation of the existing mount. EOR reserves the right and will typically require additional clarification and verification as will be included in the PMI requirements. During the Post Modification Inspection (PMI) process, the GC on site will be required to confirm all questions, confirmations, and validations as posed by the EOR. The engineering review for this desktop mount mapping was performed in accordance to the ANSI/TIA-222-H requirements and Verizon's NSTD446 standard.

Photo taken from: Ground Mapping

Photo taken from: Ground Mapping

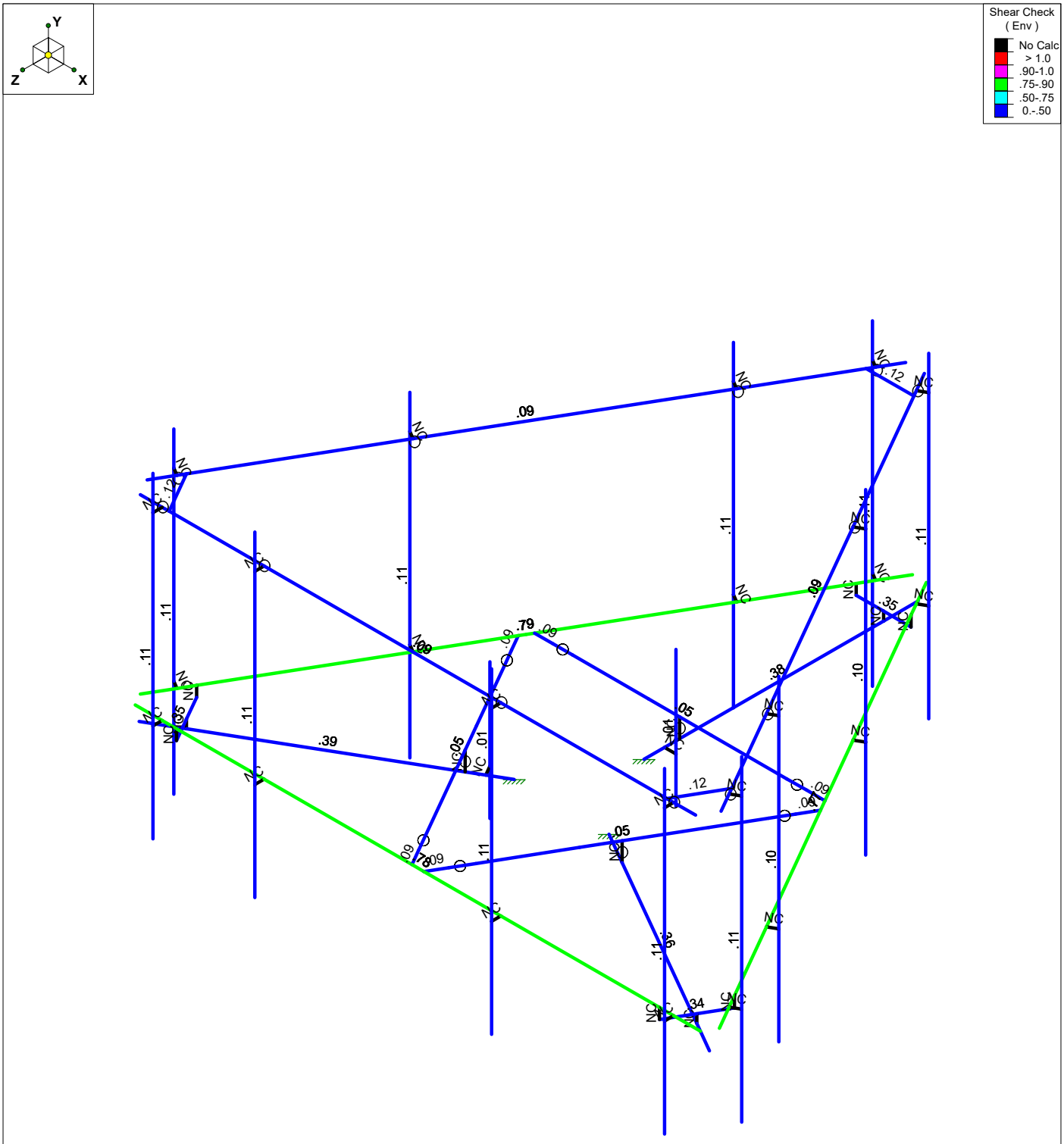


		SK - 1
		May 14, 2024 at 2:45 PM
		5000244500-VZW_MT_LO_H.r3d



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

		SK - 2
		May 14, 2024 at 2:45 PM
		5000244500-VZW_MT_LO_H.r3d



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

		SK - 3
		May 14, 2024 at 2:45 PM
		5000244500-VZW_MT_LO_H.r3d

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribut...	Area(Me...	Surface(...
1	Antenna D	None					129			
2	Antenna Di	None					129			
3	Antenna Wo (0 Deg)	None					129			
4	Antenna Wo (30 Deg)	None					129			
5	Antenna Wo (60 Deg)	None					129			
6	Antenna Wo (90 Deg)	None					129			
7	Antenna Wo (120 Deg)	None					129			
8	Antenna Wo (150 Deg)	None					129			
9	Antenna Wo (180 Deg)	None					129			
10	Antenna Wo (210 Deg)	None					129			
11	Antenna Wo (240 Deg)	None					129			
12	Antenna Wo (270 Deg)	None					129			
13	Antenna Wo (300 Deg)	None					129			
14	Antenna Wo (330 Deg)	None					129			
15	Antenna Wi (0 Deg)	None					129			
16	Antenna Wi (30 Deg)	None					129			
17	Antenna Wi (60 Deg)	None					129			
18	Antenna Wi (90 Deg)	None					129			
19	Antenna Wi (120 Deg)	None					129			
20	Antenna Wi (150 Deg)	None					129			
21	Antenna Wi (180 Deg)	None					129			
22	Antenna Wi (210 Deg)	None					129			
23	Antenna Wi (240 Deg)	None					129			
24	Antenna Wi (270 Deg)	None					129			
25	Antenna Wi (300 Deg)	None					129			
26	Antenna Wi (330 Deg)	None					129			
27	Antenna Wm (0 Deg)	None					129			
28	Antenna Wm (30 Deg)	None					129			
29	Antenna Wm (60 Deg)	None					129			
30	Antenna Wm (90 Deg)	None					129			
31	Antenna Wm (120 Deg)	None					129			
32	Antenna Wm (150 Deg)	None					129			
33	Antenna Wm (180 Deg)	None					129			
34	Antenna Wm (210 Deg)	None					129			
35	Antenna Wm (240 Deg)	None					129			
36	Antenna Wm (270 Deg)	None					129			
37	Antenna Wm (300 Deg)	None					129			
38	Antenna Wm (330 Deg)	None					129			
39	Structure D	None		-1					6	
40	Structure Di	None						38	6	
41	Structure Wo (0 Deg)	None						76		
42	Structure Wo (30 Deg)	None						76		
43	Structure Wo (60 Deg)	None						76		
44	Structure Wo (90 Deg)	None						76		
45	Structure Wo (120 Deg)	None						76		
46	Structure Wo (150 Deg)	None						76		
47	Structure Wo (180 Deg)	None						76		
48	Structure Wo (210 Deg)	None						76		
49	Structure Wo (240 Deg)	None						76		
50	Structure Wo (270 Deg)	None						76		
51	Structure Wo (300 Deg)	None						76		
52	Structure Wo (330 Deg)	None						76		
53	Structure Wi (0 Deg)	None						76		
54	Structure Wi (30 Deg)	None						76		
55	Structure Wi (60 Deg)	None						76		
56	Structure Wi (90 Deg)	None						76		
57	Structure Wi (120 Deg)	None						76		
58	Structure Wi (150 Deg)	None						76		

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribut...	Area(Me...	Surface(...
59	Structure Wi (180 Deg)	None						76		
60	Structure Wi (210 Deg)	None						76		
61	Structure Wi (240 Deg)	None						76		
62	Structure Wi (270 Deg)	None						76		
63	Structure Wi (300 Deg)	None						76		
64	Structure Wi (330 Deg)	None						76		
65	Structure Wm (0 Deg)	None						76		
66	Structure Wm (30 Deg)	None						76		
67	Structure Wm (60 Deg)	None						76		
68	Structure Wm (90 Deg)	None						76		
69	Structure Wm (120 Deg)	None						76		
70	Structure Wm (150 Deg)	None						76		
71	Structure Wm (180 Deg)	None						76		
72	Structure Wm (210 Deg)	None						76		
73	Structure Wm (240 Deg)	None						76		
74	Structure Wm (270 Deg)	None						76		
75	Structure Wm (300 Deg)	None						76		
76	Structure Wm (330 Deg)	None						76		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	Antenna Ev	None					129			
82	Antenna Eh (0 Deg)	None					86			
83	Antenna Eh (90 Deg)	None					86			
84	Structure Ev	ELY		-.038					6	
85	Structure Eh (0 Deg)	ELZ			-.094				6	
86	Structure Eh (90 Deg)	ELX	.094						6	
87	BLC 39 Transient Area Loads	None						93		
88	BLC 40 Transient Area Loads	None						93		
89	BLC 84 Transient Area Loads	None						93		
90	BLC 85 Transient Area Loads	None						93		
91	BLC 86 Transient Area Loads	None						93		

Load Combinations

	Description	Sol...	P...	S...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...
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 D...	Yes	Y		1	1.2	39	1.2	4	1	42	1														
3	1.2D+1.0Wo (60 D...	Yes	Y		1	1.2	39	1.2	5	1	43	1														
4	1.2D+1.0Wo (90 D...	Yes	Y		1	1.2	39	1.2	6	1	44	1														
5	1.2D+1.0Wo (120 ...	Yes	Y		1	1.2	39	1.2	7	1	45	1														
6	1.2D+1.0Wo (150 ...	Yes	Y		1	1.2	39	1.2	8	1	46	1														
7	1.2D+1.0Wo (180 ...	Yes	Y		1	1.2	39	1.2	9	1	47	1														
8	1.2D+1.0Wo (210 ...	Yes	Y		1	1.2	39	1.2	10	1	48	1														
9	1.2D+1.0Wo (240 ...	Yes	Y		1	1.2	39	1.2	11	1	49	1														
10	1.2D+1.0Wo (270 ...	Yes	Y		1	1.2	39	1.2	12	1	50	1														
11	1.2D+1.0Wo (300 ...	Yes	Y		1	1.2	39	1.2	13	1	51	1														
12	1.2D+1.0Wo (330 ...	Yes	Y		1	1.2	39	1.2	14	1	52	1														
13	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1										
14	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1										
15	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1										
16	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1										
17	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1										
18	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1										
19	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1										
20	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1										
21	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1										

Load Combinations (Continued)

	Description	Sol..	P...	S...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...
22	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1								
23	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1								
24	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1								
25	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1										
26	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1										
27	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1										
28	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1										
29	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1										
30	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1										
31	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1										
32	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1										
33	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1										
34	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1										
35	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1										
36	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1										
37	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1										
38	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1										
39	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1										
40	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1										
41	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1										
42	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1										
43	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1										
44	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1										
45	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1										
46	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1										
47	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1										
48	1.2D + 1.5Lm2 + 1...	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 + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	1	83		ELZ	1	ELX					
53	1.2D + 1.0Ev + 1.0...	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 + 1.0...	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 + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82		83	1	ELZ		ELX	1				
56	1.2D + 1.0Ev + 1.0...	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 + 1.0...	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 + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-1	83		ELZ	-1	ELX					
59	1.2D + 1.0Ev + 1.0...	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 + 1.0...	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 + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82		83	-1	ELZ		ELX	-1				
62	1.2D + 1.0Ev + 1.0...	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 + 1.0...	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 + 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	1	83		ELZ	1	ELX					
65	0.9D - 1.0Ev + 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83	.5	ELZ	.866	ELX	.5				
66	0.9D - 1.0Ev + 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.5	83	.866	ELZ	.5	ELX	.866				
67	0.9D - 1.0Ev + 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82		83	1	ELZ		ELX	1				
68	0.9D - 1.0Ev + 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	.866	ELZ	-.5	ELX	.866				
69	0.9D - 1.0Ev + 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	.5	ELZ	-.866	ELX	.5				
70	0.9D - 1.0Ev + 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-1	83		ELZ	-1	ELX					
71	0.9D - 1.0Ev + 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	-.5	ELZ	-.866	ELX	-.5				
72	0.9D - 1.0Ev + 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	-.866	ELZ	-.5	ELX	-.866				
73	0.9D - 1.0Ev + 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82		83	-1	ELZ		ELX	-1				
74	0.9D - 1.0Ev + 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.5	83	-.866	ELZ	.5	ELX	-.866				
75	0.9D - 1.0Ev + 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83	-.5	ELZ	.866	ELX	-.5				

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design L...	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	TES Plate	PL1/2x10	Beam	Pipe	A53 Gr.B	Typical	5	.104	41.667	.404
2	Mount Pipe	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
3	Pipe Vertical	PIPE_2.0	Beam	Pipe	A500 Gr.B RND	Typical	1.02	.627	.627	1.25
4	Support Rail	L3X3X4	Beam	RECT	A36 Gr.36	Typical	1.44	1.23	1.23	.031
5	Support Rail Plate	PL1/2x6	Beam	RECT	A36 Gr.36	Typical	3	.063	9	.237
6	Standoff Tab	PL1/4x3.5	Beam	RECT	A36 Gr.36	Typical	.875	.005	.893	.017
7	Corner Plate	PL1/2x9	Beam	RECT	A36 Gr.36	Typical	4.5	.094	30.375	.362
8	Standoff	HSS4X4X3	Beam	Channel	A36 Gr.36	Typical	2.58	6.21	6.21	10
9	Standoff Brace	L4X4X4	Beam	Channel	A36 Gr.36	Typical	1.93	3	3	.044
10	Face Horizontal	C5X6.7	Beam	Channel	A36 Gr.36	Typical	1.97	.47	7.48	.055

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M73	N142A	N141A		180	Face Horizontal	Beam	Channel	A36 Gr.36	Typical
2	M74	N147	N146			Face Horizontal	Beam	Channel	A36 Gr.36	Typical
3	M75	N152A	N151		180	Face Horizontal	Beam	Channel	A36 Gr.36	Typical
4	M76	N153A	N154A			Standoff	Beam	Channel	A36 Gr.36	Typical
5	M77	N161B	N162A		90	Standoff Brace	Beam	Channel	A36 Gr.36	Typical
6	M78	N162	N161B			Standoff Tab	Beam	RECT	A36 Gr.36	Typical
7	M79	N162A	N158			Standoff Tab	Beam	RECT	A36 Gr.36	Typical
8	M80	N164	N163			RIGID	None	None	RIGID	Typical
9	M81	N170	N169			RIGID	None	None	RIGID	Typical
10	M82	N169A	N168			RIGID	None	None	RIGID	Typical
11	M83	N170A	N168A			RIGID	None	None	RIGID	Typical
12	M84	N170	N169A		90	Corner Plate	Beam	RECT	A36 Gr.36	Typical
13	M85	N171	N172			Standoff	Beam	Channel	A36 Gr.36	Typical
14	M86	N175	N176		90	Standoff Brace	Beam	Channel	A36 Gr.36	Typical
15	M87	N156	N175			Standoff Tab	Beam	RECT	A36 Gr.36	Typical
16	M88	N176	N161			Standoff Tab	Beam	RECT	A36 Gr.36	Typical
17	M89	N178	N177			RIGID	None	None	RIGID	Typical
18	M90	N183	N180			RIGID	None	None	RIGID	Typical
19	M91	N182	N179			RIGID	None	None	RIGID	Typical
20	M92	N184	N181			RIGID	None	None	RIGID	Typical
21	M93	N183	N182		90	Corner Plate	Beam	RECT	A36 Gr.36	Typical
22	M94	N185	N186			Standoff	Beam	Channel	A36 Gr.36	Typical
23	M95	N189	N190		90	Standoff Brace	Beam	Channel	A36 Gr.36	Typical
24	M96	N159	N189			Standoff Tab	Beam	RECT	A36 Gr.36	Typical
25	M97	N190	N155			Standoff Tab	Beam	RECT	A36 Gr.36	Typical
26	M98	N192	N191			RIGID	None	None	RIGID	Typical
27	M99	N197	N194			RIGID	None	None	RIGID	Typical
28	M100	N196	N193			RIGID	None	None	RIGID	Typical
29	M101	N198	N195			RIGID	None	None	RIGID	Typical
30	M102	N197	N196		90	Corner Plate	Beam	RECT	A36 Gr.36	Typical
31	M103	N199	N198A		180	Support Rail	Beam	RECT	A36 Gr.36	Typical
32	M104	N204	N203		180	Support Rail	Beam	RECT	A36 Gr.36	Typical
33	M105	N209	N208		180	Support Rail	Beam	RECT	A36 Gr.36	Typical
34	M106	N211	N210		90	Support Rail P...	Beam	RECT	A36 Gr.36	Typical
35	M107	N210A	N209A		90	Support Rail P...	Beam	RECT	A36 Gr.36	Typical
36	M108	N212	N211A		90	Support Rail P...	Beam	RECT	A36 Gr.36	Typical
37	M109	N213	N218			RIGID	None	None	RIGID	Typical
38	M110	N216	N221A			RIGID	None	None	RIGID	Typical
39	M111	N215	N220A			RIGID	None	None	RIGID	Typical
40	M112	N214	N219A			RIGID	None	None	RIGID	Typical
41	LIVE 1	N215A	N223A			RIGID	None	None	RIGID	Typical
42	LIVE 2	N216A	N224A			RIGID	None	None	RIGID	Typical
43	M115	N217	N225A			RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
44	M116	N214A	N222			RIGID	None	None	RIGID	Typical
45	MP4A	N226A	N230			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
46	MP3A	N229	N233			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
47	MP2A	N228A	N232			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
48	MP1A	N227A	N231			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
49	M121	N234	N242			RIGID	None	None	RIGID	Typical
50	M122	N237	N245			RIGID	None	None	RIGID	Typical
51	M123	N236	N244			RIGID	None	None	RIGID	Typical
52	M124	N235	N243			RIGID	None	None	RIGID	Typical
53	M125	N239	N247			RIGID	None	None	RIGID	Typical
54	M126	N240	N248			RIGID	None	None	RIGID	Typical
55	M127	N241	N249			RIGID	None	None	RIGID	Typical
56	M128	N238	N246			RIGID	None	None	RIGID	Typical
57	MP4C	N250	N254			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
58	MP3C	N253	N257			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
59	MP2C	N252	N256			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
60	MP1C	N251	N255			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
61	M133	N258	N266			RIGID	None	None	RIGID	Typical
62	M134	N261	N269			RIGID	None	None	RIGID	Typical
63	M135A	N260	N268			RIGID	None	None	RIGID	Typical
64	M136A	N259	N267			RIGID	None	None	RIGID	Typical
65	M137A	N263	N271			RIGID	None	None	RIGID	Typical
66	M138A	N264	N272			RIGID	None	None	RIGID	Typical
67	M139A	N265	N273			RIGID	None	None	RIGID	Typical
68	M140A	N262	N270			RIGID	None	None	RIGID	Typical
69	MP4B	N274	N278			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
70	MP3B	N277	N281			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
71	MP2B	N276	N280			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
72	MP1B	N275	N279			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
73	M73A	N146A	N147A			RIGID	None	None	RIGID	Typical
74	OVP1	N148	N149			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
75	M75A	N150	N151A			RIGID	None	None	RIGID	Typical
76	OVP	N152	N153		240	Mount Pipe	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	M73						Yes				None
2	M74						Yes				None
3	M75						Yes				None
4	M76						Yes				None
5	M77	OOOOOX	OOOOOX				Yes				None
6	M78						Yes				None
7	M79						Yes				None
8	M80		AllPIN			Compres...	Yes	** NA **			None
9	M81						Yes	** NA **			None
10	M82						Yes	** NA **			None
11	M83						Yes	** NA **			None
12	M84						Yes				None
13	M85						Yes				None
14	M86	OOOOOX	OOOOOX				Yes				None
15	M87						Yes	Default			None
16	M88						Yes				None
17	M89		AllPIN			Compres...	Yes	** NA **			None
18	M90						Yes	** NA **			None
19	M91						Yes	** NA **			None
20	M92						Yes	** NA **			None
21	M93						Yes				None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
22	M94						Yes				None
23	M95	OOOOOX	OOOOOX				Yes				None
24	M96						Yes				None
25	M97						Yes				None
26	M98		AllPIN			Compres...	Yes	** NA **			None
27	M99						Yes	** NA **			None
28	M100						Yes	** NA **			None
29	M101						Yes	** NA **			None
30	M102						Yes				None
31	M103						Yes				None
32	M104						Yes				None
33	M105						Yes				None
34	M106						Yes				None
35	M107						Yes				None
36	M108						Yes				None
37	M109		OOOXOO				Yes	** NA **			None
38	M110		OOOXOO				Yes	** NA **			None
39	M111		OOOXOO				Yes	** NA **			None
40	M112		OOOXOO				Yes	** NA **			None
41	LIVE 1						Yes	** NA **			None
42	LIVE 2						Yes	** NA **			None
43	M115						Yes	** NA **			None
44	M116						Yes	** NA **			None
45	MP4A						Yes				None
46	MP3A						Yes				None
47	MP2A						Yes				None
48	MP1A						Yes	Default			None
49	M121		OOOXOO				Yes	** NA **			None
50	M122		OOOXOO				Yes	** NA **			None
51	M123		OOOXOO				Yes	** NA **			None
52	M124		OOOXOO				Yes	** NA **			None
53	M125						Yes	** NA **			None
54	M126						Yes	** NA **			None
55	M127						Yes	** NA **			None
56	M128						Yes	** NA **			None
57	MP4C						Yes				None
58	MP3C						Yes				None
59	MP2C						Yes				None
60	MP1C						Yes				None
61	M133		OOOXOO				Yes	** NA **			None
62	M134		OOOXOO				Yes	** NA **			None
63	M135A		OOOXOO				Yes	** NA **			None
64	M136A		OOOXOO				Yes	** NA **			None
65	M137A						Yes	** NA **			None
66	M138A						Yes	** NA **			None
67	M139A						Yes	** NA **			None
68	M140A						Yes	** NA **			None
69	MP4B						Yes				None
70	MP3B						Yes				None
71	MP2B						Yes				None
72	MP1B						Yes				None
73	M73A						Yes	** NA **			None
74	OVP1						Yes				None
75	M75A						Yes	** NA **			None
76	OVP						Yes				None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-21.85	.5
2	MP2A	My	-.015	.5
3	MP2A	Mz	-.015	.5
4	MP2A	Y	-21.85	5
5	MP2A	My	-.015	5
6	MP2A	Mz	-.015	5
7	MP2B	Y	-21.85	.5
8	MP2B	My	.02	.5
9	MP2B	Mz	-.005	.5
10	MP2B	Y	-21.85	5
11	MP2B	My	.02	5
12	MP2B	Mz	-.005	5
13	MP2C	Y	-21.85	.5
14	MP2C	My	-.005	.5
15	MP2C	Mz	.02	.5
16	MP2C	Y	-21.85	5
17	MP2C	My	-.005	5
18	MP2C	Mz	.02	5
19	MP2A	Y	-32.3	.5
20	MP2A	My	-.022	.5
21	MP2A	Mz	.022	.5
22	MP2A	Y	-32.3	5
23	MP2A	My	-.022	5
24	MP2A	Mz	.022	5
25	MP2B	Y	-32.3	.5
26	MP2B	My	-.008	.5
27	MP2B	Mz	-.029	.5
28	MP2B	Y	-32.3	5
29	MP2B	My	-.008	5
30	MP2B	Mz	-.029	5
31	MP2C	Y	-32.3	.5
32	MP2C	My	.029	.5
33	MP2C	Mz	.008	.5
34	MP2C	Y	-32.3	5
35	MP2C	My	.029	5
36	MP2C	Mz	.008	5
37	MP1A	Y	-43.55	1.75
38	MP1A	My	-.029	1.75
39	MP1A	Mz	0	1.75
40	MP1A	Y	-43.55	3.75
41	MP1A	My	-.029	3.75
42	MP1A	Mz	0	3.75
43	MP1B	Y	-43.55	1.75
44	MP1B	My	.015	1.75
45	MP1B	Mz	-.025	1.75
46	MP1B	Y	-43.55	3.75
47	MP1B	My	.015	3.75
48	MP1B	Mz	-.025	3.75
49	MP1C	Y	-43.55	1.75
50	MP1C	My	.015	1.75
51	MP1C	Mz	.025	1.75
52	MP1C	Y	-43.55	3.75
53	MP1C	My	.015	3.75
54	MP1C	Mz	.025	3.75
55	OVP1	Y	-32	1
56	OVP1	My	0	1
57	OVP1	Mz	0	1
58	MP2A	Y	-74.7	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
59	MP2A	My	.062	2.5
60	MP2A	Mz	0	2.5
61	MP2B	Y	-74.7	2.5
62	MP2B	My	-.031	2.5
63	MP2B	Mz	.054	2.5
64	MP2C	Y	-74.7	2.5
65	MP2C	My	-.031	2.5
66	MP2C	Mz	-.054	2.5
67	MP3A	Y	-70.3	2.5
68	MP3A	My	.059	2.5
69	MP3A	Mz	0	2.5
70	MP3B	Y	-70.3	2.5
71	MP3B	My	-.029	2.5
72	MP3B	Mz	.051	2.5
73	MP3C	Y	-70.3	2.5
74	MP3C	My	-.029	2.5
75	MP3C	Mz	-.051	2.5
76	MP2A	Y	-18.7	4.35
77	MP2A	My	.008	4.35
78	MP2A	Mz	0	4.35
79	MP2B	Y	-18.7	4.35
80	MP2B	My	-.004	4.35
81	MP2B	Mz	.007	4.35
82	MP2C	Y	-18.7	4.35
83	MP2C	My	-.004	4.35
84	MP2C	Mz	-.007	4.35
85	MP4A	Y	-24.6	.5
86	MP4A	My	-.016	.5
87	MP4A	Mz	.003	.5
88	MP4A	Y	-24.6	5
89	MP4A	My	-.016	5
90	MP4A	Mz	.003	5
91	MP4B	Y	-24.6	.5
92	MP4B	My	.008	.5
93	MP4B	Mz	-.014	.5
94	MP4B	Y	-24.6	5
95	MP4B	My	.008	5
96	MP4B	Mz	-.014	5
97	MP4C	Y	-24.6	.5
98	MP4C	My	.008	.5
99	MP4C	Mz	.014	.5
100	MP4C	Y	-24.6	5
101	MP4C	My	.008	5
102	MP4C	Mz	.014	5
103	OVP	Y	-32	1
104	OVP	My	0	1
105	OVP	Mz	0	1
106	MP3A	Y	-8.8	3
107	MP3A	My	.009	3
108	MP3A	Mz	.003	3
109	MP3A	Y	-8.8	5
110	MP3A	My	.009	5
111	MP3A	Mz	.003	5
112	MP3B	Y	-8.8	3
113	MP3B	My	-.007	3
114	MP3B	Mz	.006	3
115	MP3B	Y	-8.8	5
116	MP3B	My	-.007	5
117	MP3B	Mz	.006	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
118	MP3A	Y	-8.8	3
119	MP3A	My	.009	3
120	MP3A	Mz	-.003	3
121	MP3A	Y	-8.8	5
122	MP3A	My	.009	5
123	MP3A	Mz	-.003	5
124	MP3B	Y	-8.8	3
125	MP3B	My	-.002	3
126	MP3B	Mz	.009	3
127	MP3B	Y	-8.8	5
128	MP3B	My	-.002	5
129	MP3B	Mz	.009	5

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-93.531	.5
2	MP2A	My	-.062	.5
3	MP2A	Mz	-.062	.5
4	MP2A	Y	-93.531	5
5	MP2A	My	-.062	5
6	MP2A	Mz	-.062	5
7	MP2B	Y	-93.531	.5
8	MP2B	My	.085	.5
9	MP2B	Mz	-.023	.5
10	MP2B	Y	-93.531	5
11	MP2B	My	.085	5
12	MP2B	Mz	-.023	5
13	MP2C	Y	-93.531	.5
14	MP2C	My	-.023	.5
15	MP2C	Mz	.085	.5
16	MP2C	Y	-93.531	5
17	MP2C	My	-.023	5
18	MP2C	Mz	.085	5
19	MP2A	Y	-93.531	.5
20	MP2A	My	-.062	.5
21	MP2A	Mz	.062	.5
22	MP2A	Y	-93.531	5
23	MP2A	My	-.062	5
24	MP2A	Mz	.062	5
25	MP2B	Y	-93.531	.5
26	MP2B	My	-.023	.5
27	MP2B	Mz	-.085	.5
28	MP2B	Y	-93.531	5
29	MP2B	My	-.023	5
30	MP2B	Mz	-.085	5
31	MP2C	Y	-93.531	.5
32	MP2C	My	.085	.5
33	MP2C	Mz	.023	.5
34	MP2C	Y	-93.531	5
35	MP2C	My	.085	5
36	MP2C	Mz	.023	5
37	MP1A	Y	-55.196	1.75
38	MP1A	My	-.037	1.75
39	MP1A	Mz	0	1.75
40	MP1A	Y	-55.196	3.75
41	MP1A	My	-.037	3.75
42	MP1A	Mz	0	3.75
43	MP1B	Y	-55.196	1.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1B	My	.018	1.75
45	MP1B	Mz	-.032	1.75
46	MP1B	Y	-55.196	3.75
47	MP1B	My	.018	3.75
48	MP1B	Mz	-.032	3.75
49	MP1C	Y	-55.196	1.75
50	MP1C	My	.018	1.75
51	MP1C	Mz	.032	1.75
52	MP1C	Y	-55.196	3.75
53	MP1C	My	.018	3.75
54	MP1C	Mz	.032	3.75
55	OVP1	Y	-135.102	1
56	OVP1	My	0	1
57	OVP1	Mz	0	1
58	MP2A	Y	-70.12	2.5
59	MP2A	My	.058	2.5
60	MP2A	Mz	0	2.5
61	MP2B	Y	-70.12	2.5
62	MP2B	My	-.029	2.5
63	MP2B	Mz	.051	2.5
64	MP2C	Y	-70.12	2.5
65	MP2C	My	-.029	2.5
66	MP2C	Mz	-.051	2.5
67	MP3A	Y	-66.887	2.5
68	MP3A	My	.056	2.5
69	MP3A	Mz	0	2.5
70	MP3B	Y	-66.887	2.5
71	MP3B	My	-.028	2.5
72	MP3B	Mz	.048	2.5
73	MP3C	Y	-66.887	2.5
74	MP3C	My	-.028	2.5
75	MP3C	Mz	-.048	2.5
76	MP2A	Y	-32.026	4.35
77	MP2A	My	.013	4.35
78	MP2A	Mz	0	4.35
79	MP2B	Y	-32.026	4.35
80	MP2B	My	-.007	4.35
81	MP2B	Mz	.012	4.35
82	MP2C	Y	-32.026	4.35
83	MP2C	My	-.007	4.35
84	MP2C	Mz	-.012	4.35
85	MP4A	Y	-122.597	.5
86	MP4A	My	-.08	.5
87	MP4A	Mz	.014	.5
88	MP4A	Y	-122.597	5
89	MP4A	My	-.08	5
90	MP4A	Mz	.014	5
91	MP4B	Y	-122.597	.5
92	MP4B	My	.041	.5
93	MP4B	Mz	-.071	.5
94	MP4B	Y	-122.597	5
95	MP4B	My	.041	5
96	MP4B	Mz	-.071	5
97	MP4C	Y	-122.597	.5
98	MP4C	My	.041	.5
99	MP4C	Mz	.071	.5
100	MP4C	Y	-122.597	5
101	MP4C	My	.041	5
102	MP4C	Mz	.071	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	OVP	Y	-135.102	1
104	OVP	My	0	1
105	OVP	Mz	0	1
106	MP3A	Y	-14.087	3
107	MP3A	My	.014	3
108	MP3A	Mz	.005	3
109	MP3A	Y	-14.087	5
110	MP3A	My	.014	5
111	MP3A	Mz	.005	5
112	MP3B	Y	-14.087	3
113	MP3B	My	-.011	3
114	MP3B	Mz	.01	3
115	MP3B	Y	-14.087	5
116	MP3B	My	-.011	5
117	MP3B	Mz	.01	5
118	MP3A	Y	-14.087	3
119	MP3A	My	.014	3
120	MP3A	Mz	-.005	3
121	MP3A	Y	-14.087	5
122	MP3A	My	.014	5
123	MP3A	Mz	-.005	5
124	MP3B	Y	-14.087	3
125	MP3B	My	-.003	3
126	MP3B	Mz	.015	3
127	MP3B	Y	-14.087	5
128	MP3B	My	-.003	5
129	MP3B	Mz	.015	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	-85.147	.5
3	MP2A	Mx	.057	.5
4	MP2A	X	0	5
5	MP2A	Z	-85.147	5
6	MP2A	Mx	.057	5
7	MP2B	X	0	.5
8	MP2B	Z	-48.689	.5
9	MP2B	Mx	.012	.5
10	MP2B	X	0	5
11	MP2B	Z	-48.689	5
12	MP2B	Mx	.012	5
13	MP2C	X	0	.5
14	MP2C	Z	-48.689	.5
15	MP2C	Mx	-.044	.5
16	MP2C	X	0	5
17	MP2C	Z	-48.689	5
18	MP2C	Mx	-.044	5
19	MP2A	X	0	.5
20	MP2A	Z	-126.231	.5
21	MP2A	Mx	-.084	.5
22	MP2A	X	0	5
23	MP2A	Z	-126.231	5
24	MP2A	Mx	-.084	5
25	MP2B	X	0	.5
26	MP2B	Z	-94.379	.5
27	MP2B	Mx	.086	.5
28	MP2B	X	0	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP2B	Z	-94.379	5
30	MP2B	Mx	.086	5
31	MP2C	X	0	.5
32	MP2C	Z	-94.379	.5
33	MP2C	Mx	-.023	.5
34	MP2C	X	0	5
35	MP2C	Z	-94.379	5
36	MP2C	Mx	-.023	5
37	MP1A	X	0	1.75
38	MP1A	Z	-61.469	1.75
39	MP1A	Mx	0	1.75
40	MP1A	X	0	3.75
41	MP1A	Z	-61.469	3.75
42	MP1A	Mx	0	3.75
43	MP1B	X	0	1.75
44	MP1B	Z	-31.244	1.75
45	MP1B	Mx	.018	1.75
46	MP1B	X	0	3.75
47	MP1B	Z	-31.244	3.75
48	MP1B	Mx	.018	3.75
49	MP1C	X	0	1.75
50	MP1C	Z	-31.244	1.75
51	MP1C	Mx	-.018	1.75
52	MP1C	X	0	3.75
53	MP1C	Z	-31.244	3.75
54	MP1C	Mx	-.018	3.75
55	OVP1	X	0	1
56	OVP1	Z	-99.416	1
57	OVP1	Mx	0	1
58	MP2A	X	0	2.5
59	MP2A	Z	-48.611	2.5
60	MP2A	Mx	0	2.5
61	MP2B	X	0	2.5
62	MP2B	Z	-36.615	2.5
63	MP2B	Mx	-.026	2.5
64	MP2C	X	0	2.5
65	MP2C	Z	-36.615	2.5
66	MP2C	Mx	.026	2.5
67	MP3A	X	0	2.5
68	MP3A	Z	-48.611	2.5
69	MP3A	Mx	0	2.5
70	MP3B	X	0	2.5
71	MP3B	Z	-34.263	2.5
72	MP3B	Mx	-.025	2.5
73	MP3C	X	0	2.5
74	MP3C	Z	-34.263	2.5
75	MP3C	Mx	.025	2.5
76	MP2A	X	0	4.35
77	MP2A	Z	-22.58	4.35
78	MP2A	Mx	0	4.35
79	MP2B	X	0	4.35
80	MP2B	Z	-13.642	4.35
81	MP2B	Mx	-.005	4.35
82	MP2C	X	0	4.35
83	MP2C	Z	-13.642	4.35
84	MP2C	Mx	.005	4.35
85	MP4A	X	0	.5
86	MP4A	Z	-178.075	.5
87	MP4A	Mx	-.021	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
88	MP4A	X	0	5
89	MP4A	Z	-178.075	5
90	MP4A	Mx	-.021	5
91	MP4B	X	0	.5
92	MP4B	Z	-135.479	.5
93	MP4B	Mx	.078	.5
94	MP4B	X	0	5
95	MP4B	Z	-135.479	5
96	MP4B	Mx	.078	5
97	MP4C	X	0	.5
98	MP4C	Z	-135.479	.5
99	MP4C	Mx	-.078	.5
100	MP4C	X	0	5
101	MP4C	Z	-135.479	5
102	MP4C	Mx	-.078	5
103	OVP	X	0	1
104	OVP	Z	-99.416	1
105	OVP	Mx	0	1
106	MP3A	X	0	3
107	MP3A	Z	-15.054	3
108	MP3A	Mx	-.005	3
109	MP3A	X	0	5
110	MP3A	Z	-15.054	5
111	MP3A	Mx	-.005	5
112	MP3B	X	0	3
113	MP3B	Z	-15.087	3
114	MP3B	Mx	-.011	3
115	MP3B	X	0	5
116	MP3B	Z	-15.087	5
117	MP3B	Mx	-.011	5
118	MP3A	X	0	3
119	MP3A	Z	-15.054	3
120	MP3A	Mx	.005	3
121	MP3A	X	0	5
122	MP3A	Z	-15.054	5
123	MP3A	Mx	.005	5
124	MP3B	X	0	3
125	MP3B	Z	-15.087	3
126	MP3B	Mx	-.016	3
127	MP3B	X	0	5
128	MP3B	Z	-15.087	5
129	MP3B	Mx	-.016	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	36.497	.5
2	MP2A	Z	-63.215	.5
3	MP2A	Mx	.018	.5
4	MP2A	X	36.497	5
5	MP2A	Z	-63.215	5
6	MP2A	Mx	.018	5
7	MP2B	X	18.268	.5
8	MP2B	Z	-31.641	.5
9	MP2B	Mx	.024	.5
10	MP2B	X	18.268	5
11	MP2B	Z	-31.641	5
12	MP2B	Mx	.024	5
13	MP2C	X	36.497	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
14	MP2C	Z	-63.215	.5
15	MP2C	Mx	-.066	.5
16	MP2C	X	36.497	5
17	MP2C	Z	-63.215	5
18	MP2C	Mx	-.066	5
19	MP2A	X	57.807	.5
20	MP2A	Z	-100.124	.5
21	MP2A	Mx	-.105	.5
22	MP2A	X	57.807	5
23	MP2A	Z	-100.124	5
24	MP2A	Mx	-.105	5
25	MP2B	X	41.881	.5
26	MP2B	Z	-72.54	.5
27	MP2B	Mx	.056	.5
28	MP2B	X	41.881	5
29	MP2B	Z	-72.54	5
30	MP2B	Mx	.056	5
31	MP2C	X	57.807	.5
32	MP2C	Z	-100.124	.5
33	MP2C	Mx	.028	.5
34	MP2C	X	57.807	5
35	MP2C	Z	-100.124	5
36	MP2C	Mx	.028	5
37	MP1A	X	25.697	1.75
38	MP1A	Z	-44.508	1.75
39	MP1A	Mx	-.017	1.75
40	MP1A	X	25.697	3.75
41	MP1A	Z	-44.508	3.75
42	MP1A	Mx	-.017	3.75
43	MP1B	X	10.585	1.75
44	MP1B	Z	-18.333	1.75
45	MP1B	Mx	.014	1.75
46	MP1B	X	10.585	3.75
47	MP1B	Z	-18.333	3.75
48	MP1B	Mx	.014	3.75
49	MP1C	X	25.697	1.75
50	MP1C	Z	-44.508	1.75
51	MP1C	Mx	-.017	1.75
52	MP1C	X	25.697	3.75
53	MP1C	Z	-44.508	3.75
54	MP1C	Mx	-.017	3.75
55	OVP1	X	46.729	1
56	OVP1	Z	-80.937	1
57	OVP1	Mx	0	1
58	MP2A	X	22.306	2.5
59	MP2A	Z	-38.635	2.5
60	MP2A	Mx	.019	2.5
61	MP2B	X	16.308	2.5
62	MP2B	Z	-28.246	2.5
63	MP2B	Mx	-.027	2.5
64	MP2C	X	22.306	2.5
65	MP2C	Z	-38.635	2.5
66	MP2C	Mx	.019	2.5
67	MP3A	X	21.914	2.5
68	MP3A	Z	-37.956	2.5
69	MP3A	Mx	.018	2.5
70	MP3B	X	14.74	2.5
71	MP3B	Z	-25.53	2.5
72	MP3B	Mx	-.025	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP3C	X	21.914	2.5
74	MP3C	Z	-37.956	2.5
75	MP3C	Mx	.018	2.5
76	MP2A	X	9.801	4.35
77	MP2A	Z	-16.975	4.35
78	MP2A	Mx	.004	4.35
79	MP2B	X	5.331	4.35
80	MP2B	Z	-9.234	4.35
81	MP2B	Mx	-.004	4.35
82	MP2C	X	9.801	4.35
83	MP2C	Z	-16.975	4.35
84	MP2C	Mx	.004	4.35
85	MP4A	X	77.705	.5
86	MP4A	Z	-134.589	.5
87	MP4A	Mx	-.067	.5
88	MP4A	X	77.705	5
89	MP4A	Z	-134.589	5
90	MP4A	Mx	-.067	5
91	MP4B	X	60.343	.5
92	MP4B	Z	-104.517	.5
93	MP4B	Mx	.08	.5
94	MP4B	X	60.343	5
95	MP4B	Z	-104.517	5
96	MP4B	Mx	.08	5
97	MP4C	X	82.533	.5
98	MP4C	Z	-142.951	.5
99	MP4C	Mx	-.055	.5
100	MP4C	X	82.533	5
101	MP4C	Z	-142.951	5
102	MP4C	Mx	-.055	5
103	OVP	X	46.729	1
104	OVP	Z	-80.937	1
105	OVP	Mx	0	1
106	MP3A	X	7.532	3
107	MP3A	Z	-13.046	3
108	MP3A	Mx	.003	3
109	MP3A	X	7.532	5
110	MP3A	Z	-13.046	5
111	MP3A	Mx	.003	5
112	MP3B	X	7.549	3
113	MP3B	Z	-13.075	3
114	MP3B	Mx	-.015	3
115	MP3B	X	7.549	5
116	MP3B	Z	-13.075	5
117	MP3B	Mx	-.015	5
118	MP3A	X	7.532	3
119	MP3A	Z	-13.046	3
120	MP3A	Mx	.012	3
121	MP3A	X	7.532	5
122	MP3A	Z	-13.046	5
123	MP3A	Mx	.012	5
124	MP3B	X	7.549	3
125	MP3B	Z	-13.075	3
126	MP3B	Mx	-.015	3
127	MP3B	X	7.549	5
128	MP3B	Z	-13.075	5
129	MP3B	Mx	-.015	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	42.166	.5
2	MP2A	Z	-24.344	.5
3	MP2A	Mx	-.012	.5
4	MP2A	X	42.166	5
5	MP2A	Z	-24.344	5
6	MP2A	Mx	-.012	5
7	MP2B	X	42.166	.5
8	MP2B	Z	-24.344	.5
9	MP2B	Mx	.044	.5
10	MP2B	X	42.166	5
11	MP2B	Z	-24.344	5
12	MP2B	Mx	.044	5
13	MP2C	X	73.739	.5
14	MP2C	Z	-42.573	.5
15	MP2C	Mx	-.057	.5
16	MP2C	X	73.739	5
17	MP2C	Z	-42.573	5
18	MP2C	Mx	-.057	5
19	MP2A	X	81.735	.5
20	MP2A	Z	-47.189	.5
21	MP2A	Mx	-.086	.5
22	MP2A	X	81.735	5
23	MP2A	Z	-47.189	5
24	MP2A	Mx	-.086	5
25	MP2B	X	81.735	.5
26	MP2B	Z	-47.189	.5
27	MP2B	Mx	.023	.5
28	MP2B	X	81.735	5
29	MP2B	Z	-47.189	5
30	MP2B	Mx	.023	5
31	MP2C	X	109.319	.5
32	MP2C	Z	-63.115	.5
33	MP2C	Mx	.084	.5
34	MP2C	X	109.319	5
35	MP2C	Z	-63.115	5
36	MP2C	Mx	.084	5
37	MP1A	X	27.058	1.75
38	MP1A	Z	-15.622	1.75
39	MP1A	Mx	-.018	1.75
40	MP1A	X	27.058	3.75
41	MP1A	Z	-15.622	3.75
42	MP1A	Mx	-.018	3.75
43	MP1B	X	27.058	1.75
44	MP1B	Z	-15.622	1.75
45	MP1B	Mx	.018	1.75
46	MP1B	X	27.058	3.75
47	MP1B	Z	-15.622	3.75
48	MP1B	Mx	.018	3.75
49	MP1C	X	53.234	1.75
50	MP1C	Z	-30.734	1.75
51	MP1C	Mx	0	1.75
52	MP1C	X	53.234	3.75
53	MP1C	Z	-30.734	3.75
54	MP1C	Mx	0	3.75
55	OVP1	X	70.616	1
56	OVP1	Z	-40.77	1
57	OVP1	Mx	0	1
58	MP2A	X	31.709	2.5
59	MP2A	Z	-18.307	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
60	MP2A	Mx	.026	2.5
61	MP2B	X	31.709	2.5
62	MP2B	Z	-18.307	2.5
63	MP2B	Mx	-.026	2.5
64	MP2C	X	42.098	2.5
65	MP2C	Z	-24.305	2.5
66	MP2C	Mx	0	2.5
67	MP3A	X	29.672	2.5
68	MP3A	Z	-17.131	2.5
69	MP3A	Mx	.025	2.5
70	MP3B	X	29.672	2.5
71	MP3B	Z	-17.131	2.5
72	MP3B	Mx	-.025	2.5
73	MP3C	X	42.098	2.5
74	MP3C	Z	-24.305	2.5
75	MP3C	Mx	0	2.5
76	MP2A	X	11.815	4.35
77	MP2A	Z	-6.821	4.35
78	MP2A	Mx	.005	4.35
79	MP2B	X	11.815	4.35
80	MP2B	Z	-6.821	4.35
81	MP2B	Mx	-.005	4.35
82	MP2C	X	19.555	4.35
83	MP2C	Z	-11.29	4.35
84	MP2C	Mx	0	4.35
85	MP4A	X	110.511	.5
86	MP4A	Z	-63.804	.5
87	MP4A	Mx	-.08	.5
88	MP4A	X	110.511	5
89	MP4A	Z	-63.804	5
90	MP4A	Mx	-.08	5
91	MP4B	X	117.328	.5
92	MP4B	Z	-67.739	.5
93	MP4B	Mx	.078	.5
94	MP4B	X	117.328	5
95	MP4B	Z	-67.739	5
96	MP4B	Mx	.078	5
97	MP4C	X	155.762	.5
98	MP4C	Z	-89.929	.5
99	MP4C	Mx	0	.5
100	MP4C	X	155.762	5
101	MP4C	Z	-89.929	5
102	MP4C	Mx	0	5
103	OVP	X	70.616	1
104	OVP	Z	-40.77	1
105	OVP	Mx	0	1
106	MP3A	X	13.066	3
107	MP3A	Z	-7.543	3
108	MP3A	Mx	.011	3
109	MP3A	X	13.066	5
110	MP3A	Z	-7.543	5
111	MP3A	Mx	.011	5
112	MP3B	X	13.066	3
113	MP3B	Z	-7.543	3
114	MP3B	Mx	-.016	3
115	MP3B	X	13.066	5
116	MP3B	Z	-7.543	5
117	MP3B	Mx	-.016	5
118	MP3A	X	13.066	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
119	MP3A	Z	-7.543	3
120	MP3A	Mx	.016	3
121	MP3A	X	13.066	5
122	MP3A	Z	-7.543	5
123	MP3A	Mx	.016	5
124	MP3B	X	13.066	3
125	MP3B	Z	-7.543	3
126	MP3B	Mx	-.011	3
127	MP3B	X	13.066	5
128	MP3B	Z	-7.543	5
129	MP3B	Mx	-.011	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	36.536	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	-.024	.5
4	MP2A	X	36.536	5
5	MP2A	Z	0	5
6	MP2A	Mx	-.024	5
7	MP2B	X	72.994	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	.066	.5
10	MP2B	X	72.994	5
11	MP2B	Z	0	5
12	MP2B	Mx	.066	5
13	MP2C	X	72.994	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	-.018	.5
16	MP2C	X	72.994	5
17	MP2C	Z	0	5
18	MP2C	Mx	-.018	5
19	MP2A	X	83.762	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	-.056	.5
22	MP2A	X	83.762	5
23	MP2A	Z	0	5
24	MP2A	Mx	-.056	5
25	MP2B	X	115.613	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	-.028	.5
28	MP2B	X	115.613	5
29	MP2B	Z	0	5
30	MP2B	Mx	-.028	5
31	MP2C	X	115.613	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	.105	.5
34	MP2C	X	115.613	5
35	MP2C	Z	0	5
36	MP2C	Mx	.105	5
37	MP1A	X	21.169	1.75
38	MP1A	Z	0	1.75
39	MP1A	Mx	-.014	1.75
40	MP1A	X	21.169	3.75
41	MP1A	Z	0	3.75
42	MP1A	Mx	-.014	3.75
43	MP1B	X	51.394	1.75
44	MP1B	Z	0	1.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP1B	Mx	.017	1.75
46	MP1B	X	51.394	3.75
47	MP1B	Z	0	3.75
48	MP1B	Mx	.017	3.75
49	MP1C	X	51.394	1.75
50	MP1C	Z	0	1.75
51	MP1C	Mx	.017	1.75
52	MP1C	X	51.394	3.75
53	MP1C	Z	0	3.75
54	MP1C	Mx	.017	3.75
55	OVP1	X	75.582	1
56	OVP1	Z	0	1
57	OVP1	Mx	0	1
58	MP2A	X	32.616	2.5
59	MP2A	Z	0	2.5
60	MP2A	Mx	.027	2.5
61	MP2B	X	44.612	2.5
62	MP2B	Z	0	2.5
63	MP2B	Mx	-.019	2.5
64	MP2C	X	44.612	2.5
65	MP2C	Z	0	2.5
66	MP2C	Mx	-.019	2.5
67	MP3A	X	29.48	2.5
68	MP3A	Z	0	2.5
69	MP3A	Mx	.025	2.5
70	MP3B	X	43.828	2.5
71	MP3B	Z	0	2.5
72	MP3B	Mx	-.018	2.5
73	MP3C	X	43.828	2.5
74	MP3C	Z	0	2.5
75	MP3C	Mx	-.018	2.5
76	MP2A	X	10.663	4.35
77	MP2A	Z	0	4.35
78	MP2A	Mx	.004	4.35
79	MP2B	X	19.601	4.35
80	MP2B	Z	0	4.35
81	MP2B	Mx	-.004	4.35
82	MP2C	X	19.601	4.35
83	MP2C	Z	0	4.35
84	MP2C	Mx	-.004	4.35
85	MP4A	X	122.47	.5
86	MP4A	Z	0	.5
87	MP4A	Mx	-.08	.5
88	MP4A	X	122.47	5
89	MP4A	Z	0	5
90	MP4A	Mx	-.08	5
91	MP4B	X	165.066	.5
92	MP4B	Z	0	.5
93	MP4B	Mx	.055	.5
94	MP4B	X	165.066	5
95	MP4B	Z	0	5
96	MP4B	Mx	.055	5
97	MP4C	X	165.066	.5
98	MP4C	Z	0	.5
99	MP4C	Mx	.055	.5
100	MP4C	X	165.066	5
101	MP4C	Z	0	5
102	MP4C	Mx	.055	5
103	OVP	X	75.582	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
104	OVP	Z	0	1
105	OVP	Mx	0	1
106	MP3A	X	15.098	3
107	MP3A	Z	0	3
108	MP3A	Mx	.015	3
109	MP3A	X	15.098	5
110	MP3A	Z	0	5
111	MP3A	Mx	.015	5
112	MP3B	X	15.065	3
113	MP3B	Z	0	3
114	MP3B	Mx	-.012	3
115	MP3B	X	15.065	5
116	MP3B	Z	0	5
117	MP3B	Mx	-.012	5
118	MP3A	X	15.098	3
119	MP3A	Z	0	3
120	MP3A	Mx	.015	3
121	MP3A	X	15.098	5
122	MP3A	Z	0	5
123	MP3A	Mx	.015	5
124	MP3B	X	15.065	3
125	MP3B	Z	0	3
126	MP3B	Mx	-.003	3
127	MP3B	X	15.065	5
128	MP3B	Z	0	5
129	MP3B	Mx	-.003	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	42.166	.5
2	MP2A	Z	24.344	.5
3	MP2A	Mx	-.044	.5
4	MP2A	X	42.166	5
5	MP2A	Z	24.344	5
6	MP2A	Mx	-.044	5
7	MP2B	X	73.739	.5
8	MP2B	Z	42.573	.5
9	MP2B	Mx	.057	.5
10	MP2B	X	73.739	5
11	MP2B	Z	42.573	5
12	MP2B	Mx	.057	5
13	MP2C	X	42.166	.5
14	MP2C	Z	24.344	.5
15	MP2C	Mx	.012	.5
16	MP2C	X	42.166	5
17	MP2C	Z	24.344	5
18	MP2C	Mx	.012	5
19	MP2A	X	81.735	.5
20	MP2A	Z	47.189	.5
21	MP2A	Mx	-.023	.5
22	MP2A	X	81.735	5
23	MP2A	Z	47.189	5
24	MP2A	Mx	-.023	5
25	MP2B	X	109.319	.5
26	MP2B	Z	63.115	.5
27	MP2B	Mx	-.084	.5
28	MP2B	X	109.319	5
29	MP2B	Z	63.115	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP2B	Mx	-.084	5
31	MP2C	X	81.735	.5
32	MP2C	Z	47.189	.5
33	MP2C	Mx	.086	.5
34	MP2C	X	81.735	5
35	MP2C	Z	47.189	5
36	MP2C	Mx	.086	5
37	MP1A	X	27.058	1.75
38	MP1A	Z	15.622	1.75
39	MP1A	Mx	-.018	1.75
40	MP1A	X	27.058	3.75
41	MP1A	Z	15.622	3.75
42	MP1A	Mx	-.018	3.75
43	MP1B	X	53.234	1.75
44	MP1B	Z	30.734	1.75
45	MP1B	Mx	0	1.75
46	MP1B	X	53.234	3.75
47	MP1B	Z	30.734	3.75
48	MP1B	Mx	0	3.75
49	MP1C	X	27.058	1.75
50	MP1C	Z	15.622	1.75
51	MP1C	Mx	.018	1.75
52	MP1C	X	27.058	3.75
53	MP1C	Z	15.622	3.75
54	MP1C	Mx	.018	3.75
55	OVP1	X	70.616	1
56	OVP1	Z	40.77	1
57	OVP1	Mx	0	1
58	MP2A	X	31.709	2.5
59	MP2A	Z	18.307	2.5
60	MP2A	Mx	.026	2.5
61	MP2B	X	42.098	2.5
62	MP2B	Z	24.305	2.5
63	MP2B	Mx	0	2.5
64	MP2C	X	31.709	2.5
65	MP2C	Z	18.307	2.5
66	MP2C	Mx	-.026	2.5
67	MP3A	X	29.672	2.5
68	MP3A	Z	17.131	2.5
69	MP3A	Mx	.025	2.5
70	MP3B	X	42.098	2.5
71	MP3B	Z	24.305	2.5
72	MP3B	Mx	0	2.5
73	MP3C	X	29.672	2.5
74	MP3C	Z	17.131	2.5
75	MP3C	Mx	-.025	2.5
76	MP2A	X	11.815	4.35
77	MP2A	Z	6.821	4.35
78	MP2A	Mx	.005	4.35
79	MP2B	X	19.555	4.35
80	MP2B	Z	11.29	4.35
81	MP2B	Mx	0	4.35
82	MP2C	X	11.815	4.35
83	MP2C	Z	6.821	4.35
84	MP2C	Mx	-.005	4.35
85	MP4A	X	125.69	.5
86	MP4A	Z	72.567	.5
87	MP4A	Mx	-.074	.5
88	MP4A	X	125.69	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
89	MP4A	Z	72.567	5
90	MP4A	Mx	-.074	5
91	MP4B	X	155.762	.5
92	MP4B	Z	89.929	.5
93	MP4B	Mx	0	.5
94	MP4B	X	155.762	5
95	MP4B	Z	89.929	5
96	MP4B	Mx	0	5
97	MP4C	X	117.328	.5
98	MP4C	Z	67.739	.5
99	MP4C	Mx	.078	.5
100	MP4C	X	117.328	5
101	MP4C	Z	67.739	5
102	MP4C	Mx	.078	5
103	OVP	X	70.616	1
104	OVP	Z	40.77	1
105	OVP	Mx	0	1
106	MP3A	X	13.066	3
107	MP3A	Z	7.543	3
108	MP3A	Mx	.016	3
109	MP3A	X	13.066	5
110	MP3A	Z	7.543	5
111	MP3A	Mx	.016	5
112	MP3B	X	13.037	3
113	MP3B	Z	7.527	3
114	MP3B	Mx	-.005	3
115	MP3B	X	13.037	5
116	MP3B	Z	7.527	5
117	MP3B	Mx	-.005	5
118	MP3A	X	13.066	3
119	MP3A	Z	7.543	3
120	MP3A	Mx	.011	3
121	MP3A	X	13.066	5
122	MP3A	Z	7.543	5
123	MP3A	Mx	.011	5
124	MP3B	X	13.037	3
125	MP3B	Z	7.527	3
126	MP3B	Mx	.005	3
127	MP3B	X	13.037	5
128	MP3B	Z	7.527	5
129	MP3B	Mx	.005	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	36.497	.5
2	MP2A	Z	63.215	.5
3	MP2A	Mx	-.066	.5
4	MP2A	X	36.497	5
5	MP2A	Z	63.215	5
6	MP2A	Mx	-.066	5
7	MP2B	X	36.497	.5
8	MP2B	Z	63.215	.5
9	MP2B	Mx	.018	.5
10	MP2B	X	36.497	5
11	MP2B	Z	63.215	5
12	MP2B	Mx	.018	5
13	MP2C	X	18.268	.5
14	MP2C	Z	31.641	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP2C	Mx	.024	.5
16	MP2C	X	18.268	5
17	MP2C	Z	31.641	5
18	MP2C	Mx	.024	5
19	MP2A	X	57.807	.5
20	MP2A	Z	100.124	.5
21	MP2A	Mx	.028	.5
22	MP2A	X	57.807	5
23	MP2A	Z	100.124	5
24	MP2A	Mx	.028	5
25	MP2B	X	57.807	.5
26	MP2B	Z	100.124	.5
27	MP2B	Mx	-.105	.5
28	MP2B	X	57.807	5
29	MP2B	Z	100.124	5
30	MP2B	Mx	-.105	5
31	MP2C	X	41.881	.5
32	MP2C	Z	72.54	.5
33	MP2C	Mx	.056	.5
34	MP2C	X	41.881	5
35	MP2C	Z	72.54	5
36	MP2C	Mx	.056	5
37	MP1A	X	25.697	1.75
38	MP1A	Z	44.508	1.75
39	MP1A	Mx	-.017	1.75
40	MP1A	X	25.697	3.75
41	MP1A	Z	44.508	3.75
42	MP1A	Mx	-.017	3.75
43	MP1B	X	25.697	1.75
44	MP1B	Z	44.508	1.75
45	MP1B	Mx	-.017	1.75
46	MP1B	X	25.697	3.75
47	MP1B	Z	44.508	3.75
48	MP1B	Mx	-.017	3.75
49	MP1C	X	10.585	1.75
50	MP1C	Z	18.333	1.75
51	MP1C	Mx	.014	1.75
52	MP1C	X	10.585	3.75
53	MP1C	Z	18.333	3.75
54	MP1C	Mx	.014	3.75
55	OVP1	X	46.729	1
56	OVP1	Z	80.937	1
57	OVP1	Mx	0	1
58	MP2A	X	22.306	2.5
59	MP2A	Z	38.635	2.5
60	MP2A	Mx	.019	2.5
61	MP2B	X	22.306	2.5
62	MP2B	Z	38.635	2.5
63	MP2B	Mx	.019	2.5
64	MP2C	X	16.308	2.5
65	MP2C	Z	28.246	2.5
66	MP2C	Mx	-.027	2.5
67	MP3A	X	21.914	2.5
68	MP3A	Z	37.956	2.5
69	MP3A	Mx	.018	2.5
70	MP3B	X	21.914	2.5
71	MP3B	Z	37.956	2.5
72	MP3B	Mx	.018	2.5
73	MP3C	X	14.74	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
74	MP3C	Z	25.53	2.5
75	MP3C	Mx	-.025	2.5
76	MP2A	X	9.801	4.35
77	MP2A	Z	16.975	4.35
78	MP2A	Mx	.004	4.35
79	MP2B	X	9.801	4.35
80	MP2B	Z	16.975	4.35
81	MP2B	Mx	.004	4.35
82	MP2C	X	5.331	4.35
83	MP2C	Z	9.234	4.35
84	MP2C	Mx	-.004	4.35
85	MP4A	X	86.468	.5
86	MP4A	Z	149.768	.5
87	MP4A	Mx	-.039	.5
88	MP4A	X	86.468	5
89	MP4A	Z	149.768	5
90	MP4A	Mx	-.039	5
91	MP4B	X	82.533	.5
92	MP4B	Z	142.951	.5
93	MP4B	Mx	-.055	.5
94	MP4B	X	82.533	5
95	MP4B	Z	142.951	5
96	MP4B	Mx	-.055	5
97	MP4C	X	60.343	.5
98	MP4C	Z	104.517	.5
99	MP4C	Mx	.08	.5
100	MP4C	X	60.343	5
101	MP4C	Z	104.517	5
102	MP4C	Mx	.08	5
103	OVP	X	46.729	1
104	OVP	Z	80.937	1
105	OVP	Mx	0	1
106	MP3A	X	7.532	3
107	MP3A	Z	13.046	3
108	MP3A	Mx	.012	3
109	MP3A	X	7.532	5
110	MP3A	Z	13.046	5
111	MP3A	Mx	.012	5
112	MP3B	X	7.532	3
113	MP3B	Z	13.046	3
114	MP3B	Mx	.003	3
115	MP3B	X	7.532	5
116	MP3B	Z	13.046	5
117	MP3B	Mx	.003	5
118	MP3A	X	7.532	3
119	MP3A	Z	13.046	3
120	MP3A	Mx	.003	3
121	MP3A	X	7.532	5
122	MP3A	Z	13.046	5
123	MP3A	Mx	.003	5
124	MP3B	X	7.532	3
125	MP3B	Z	13.046	3
126	MP3B	Mx	.012	3
127	MP3B	X	7.532	5
128	MP3B	Z	13.046	5
129	MP3B	Mx	.012	5

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	85.147	.5
3	MP2A	Mx	-.057	.5
4	MP2A	X	0	5
5	MP2A	Z	85.147	5
6	MP2A	Mx	-.057	5
7	MP2B	X	0	.5
8	MP2B	Z	48.689	.5
9	MP2B	Mx	-.012	.5
10	MP2B	X	0	5
11	MP2B	Z	48.689	5
12	MP2B	Mx	-.012	5
13	MP2C	X	0	.5
14	MP2C	Z	48.689	.5
15	MP2C	Mx	.044	.5
16	MP2C	X	0	5
17	MP2C	Z	48.689	5
18	MP2C	Mx	.044	5
19	MP2A	X	0	.5
20	MP2A	Z	126.231	.5
21	MP2A	Mx	.084	.5
22	MP2A	X	0	5
23	MP2A	Z	126.231	5
24	MP2A	Mx	.084	5
25	MP2B	X	0	.5
26	MP2B	Z	94.379	.5
27	MP2B	Mx	-.086	.5
28	MP2B	X	0	5
29	MP2B	Z	94.379	5
30	MP2B	Mx	-.086	5
31	MP2C	X	0	.5
32	MP2C	Z	94.379	.5
33	MP2C	Mx	.023	.5
34	MP2C	X	0	5
35	MP2C	Z	94.379	5
36	MP2C	Mx	.023	5
37	MP1A	X	0	1.75
38	MP1A	Z	61.469	1.75
39	MP1A	Mx	0	1.75
40	MP1A	X	0	3.75
41	MP1A	Z	61.469	3.75
42	MP1A	Mx	0	3.75
43	MP1B	X	0	1.75
44	MP1B	Z	31.244	1.75
45	MP1B	Mx	-.018	1.75
46	MP1B	X	0	3.75
47	MP1B	Z	31.244	3.75
48	MP1B	Mx	-.018	3.75
49	MP1C	X	0	1.75
50	MP1C	Z	31.244	1.75
51	MP1C	Mx	.018	1.75
52	MP1C	X	0	3.75
53	MP1C	Z	31.244	3.75
54	MP1C	Mx	.018	3.75
55	OVP1	X	0	1
56	OVP1	Z	99.416	1
57	OVP1	Mx	0	1
58	MP2A	X	0	2.5
59	MP2A	Z	48.611	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
60	MP2A	Mx	0	2.5
61	MP2B	X	0	2.5
62	MP2B	Z	36.615	2.5
63	MP2B	Mx	.026	2.5
64	MP2C	X	0	2.5
65	MP2C	Z	36.615	2.5
66	MP2C	Mx	-.026	2.5
67	MP3A	X	0	2.5
68	MP3A	Z	48.611	2.5
69	MP3A	Mx	0	2.5
70	MP3B	X	0	2.5
71	MP3B	Z	34.263	2.5
72	MP3B	Mx	.025	2.5
73	MP3C	X	0	2.5
74	MP3C	Z	34.263	2.5
75	MP3C	Mx	-.025	2.5
76	MP2A	X	0	4.35
77	MP2A	Z	22.58	4.35
78	MP2A	Mx	0	4.35
79	MP2B	X	0	4.35
80	MP2B	Z	13.642	4.35
81	MP2B	Mx	.005	4.35
82	MP2C	X	0	4.35
83	MP2C	Z	13.642	4.35
84	MP2C	Mx	-.005	4.35
85	MP4A	X	0	.5
86	MP4A	Z	178.075	.5
87	MP4A	Mx	.021	.5
88	MP4A	X	0	5
89	MP4A	Z	178.075	5
90	MP4A	Mx	.021	5
91	MP4B	X	0	.5
92	MP4B	Z	135.479	.5
93	MP4B	Mx	-.078	.5
94	MP4B	X	0	5
95	MP4B	Z	135.479	5
96	MP4B	Mx	-.078	5
97	MP4C	X	0	.5
98	MP4C	Z	135.479	.5
99	MP4C	Mx	.078	.5
100	MP4C	X	0	5
101	MP4C	Z	135.479	5
102	MP4C	Mx	.078	5
103	OVP	X	0	1
104	OVP	Z	99.416	1
105	OVP	Mx	0	1
106	MP3A	X	0	3
107	MP3A	Z	15.054	3
108	MP3A	Mx	.005	3
109	MP3A	X	0	5
110	MP3A	Z	15.054	5
111	MP3A	Mx	.005	5
112	MP3B	X	0	3
113	MP3B	Z	15.087	3
114	MP3B	Mx	.011	3
115	MP3B	X	0	5
116	MP3B	Z	15.087	5
117	MP3B	Mx	.011	5
118	MP3A	X	0	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
119	MP3A	Z	15.054	3
120	MP3A	Mx	-.005	3
121	MP3A	X	0	5
122	MP3A	Z	15.054	5
123	MP3A	Mx	-.005	5
124	MP3B	X	0	3
125	MP3B	Z	15.087	3
126	MP3B	Mx	.016	3
127	MP3B	X	0	5
128	MP3B	Z	15.087	5
129	MP3B	Mx	.016	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-36.497	.5
2	MP2A	Z	63.215	.5
3	MP2A	Mx	-.018	.5
4	MP2A	X	-36.497	5
5	MP2A	Z	63.215	5
6	MP2A	Mx	-.018	5
7	MP2B	X	-18.268	.5
8	MP2B	Z	31.641	.5
9	MP2B	Mx	-.024	.5
10	MP2B	X	-18.268	5
11	MP2B	Z	31.641	5
12	MP2B	Mx	-.024	5
13	MP2C	X	-36.497	.5
14	MP2C	Z	63.215	.5
15	MP2C	Mx	.066	.5
16	MP2C	X	-36.497	5
17	MP2C	Z	63.215	5
18	MP2C	Mx	.066	5
19	MP2A	X	-57.807	.5
20	MP2A	Z	100.124	.5
21	MP2A	Mx	.105	.5
22	MP2A	X	-57.807	5
23	MP2A	Z	100.124	5
24	MP2A	Mx	.105	5
25	MP2B	X	-41.881	.5
26	MP2B	Z	72.54	.5
27	MP2B	Mx	-.056	.5
28	MP2B	X	-41.881	5
29	MP2B	Z	72.54	5
30	MP2B	Mx	-.056	5
31	MP2C	X	-57.807	.5
32	MP2C	Z	100.124	.5
33	MP2C	Mx	-.028	.5
34	MP2C	X	-57.807	5
35	MP2C	Z	100.124	5
36	MP2C	Mx	-.028	5
37	MP1A	X	-25.697	1.75
38	MP1A	Z	44.508	1.75
39	MP1A	Mx	.017	1.75
40	MP1A	X	-25.697	3.75
41	MP1A	Z	44.508	3.75
42	MP1A	Mx	.017	3.75
43	MP1B	X	-10.585	1.75
44	MP1B	Z	18.333	1.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP1B	Mx	-.014	1.75
46	MP1B	X	-10.585	3.75
47	MP1B	Z	18.333	3.75
48	MP1B	Mx	-.014	3.75
49	MP1C	X	-25.697	1.75
50	MP1C	Z	44.508	1.75
51	MP1C	Mx	.017	1.75
52	MP1C	X	-25.697	3.75
53	MP1C	Z	44.508	3.75
54	MP1C	Mx	.017	3.75
55	OVP1	X	-46.729	1
56	OVP1	Z	80.937	1
57	OVP1	Mx	0	1
58	MP2A	X	-22.306	2.5
59	MP2A	Z	38.635	2.5
60	MP2A	Mx	-.019	2.5
61	MP2B	X	-16.308	2.5
62	MP2B	Z	28.246	2.5
63	MP2B	Mx	.027	2.5
64	MP2C	X	-22.306	2.5
65	MP2C	Z	38.635	2.5
66	MP2C	Mx	-.019	2.5
67	MP3A	X	-21.914	2.5
68	MP3A	Z	37.956	2.5
69	MP3A	Mx	-.018	2.5
70	MP3B	X	-14.74	2.5
71	MP3B	Z	25.53	2.5
72	MP3B	Mx	.025	2.5
73	MP3C	X	-21.914	2.5
74	MP3C	Z	37.956	2.5
75	MP3C	Mx	-.018	2.5
76	MP2A	X	-9.801	4.35
77	MP2A	Z	16.975	4.35
78	MP2A	Mx	-.004	4.35
79	MP2B	X	-5.331	4.35
80	MP2B	Z	9.234	4.35
81	MP2B	Mx	.004	4.35
82	MP2C	X	-9.801	4.35
83	MP2C	Z	16.975	4.35
84	MP2C	Mx	-.004	4.35
85	MP4A	X	-77.705	.5
86	MP4A	Z	134.589	.5
87	MP4A	Mx	.067	.5
88	MP4A	X	-77.705	5
89	MP4A	Z	134.589	5
90	MP4A	Mx	.067	5
91	MP4B	X	-60.343	.5
92	MP4B	Z	104.517	.5
93	MP4B	Mx	-.08	.5
94	MP4B	X	-60.343	5
95	MP4B	Z	104.517	5
96	MP4B	Mx	-.08	5
97	MP4C	X	-82.533	.5
98	MP4C	Z	142.951	.5
99	MP4C	Mx	.055	.5
100	MP4C	X	-82.533	5
101	MP4C	Z	142.951	5
102	MP4C	Mx	.055	5
103	OVP	X	-46.729	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
104	OVP	Z	80.937	1
105	OVP	Mx	0	1
106	MP3A	X	-7.532	3
107	MP3A	Z	13.046	3
108	MP3A	Mx	-.003	3
109	MP3A	X	-7.532	5
110	MP3A	Z	13.046	5
111	MP3A	Mx	-.003	5
112	MP3B	X	-7.549	3
113	MP3B	Z	13.075	3
114	MP3B	Mx	.015	3
115	MP3B	X	-7.549	5
116	MP3B	Z	13.075	5
117	MP3B	Mx	.015	5
118	MP3A	X	-7.532	3
119	MP3A	Z	13.046	3
120	MP3A	Mx	-.012	3
121	MP3A	X	-7.532	5
122	MP3A	Z	13.046	5
123	MP3A	Mx	-.012	5
124	MP3B	X	-7.549	3
125	MP3B	Z	13.075	3
126	MP3B	Mx	.015	3
127	MP3B	X	-7.549	5
128	MP3B	Z	13.075	5
129	MP3B	Mx	.015	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-42.166	.5
2	MP2A	Z	24.344	.5
3	MP2A	Mx	.012	.5
4	MP2A	X	-42.166	5
5	MP2A	Z	24.344	5
6	MP2A	Mx	.012	5
7	MP2B	X	-42.166	.5
8	MP2B	Z	24.344	.5
9	MP2B	Mx	-.044	.5
10	MP2B	X	-42.166	5
11	MP2B	Z	24.344	5
12	MP2B	Mx	-.044	5
13	MP2C	X	-73.739	.5
14	MP2C	Z	42.573	.5
15	MP2C	Mx	.057	.5
16	MP2C	X	-73.739	5
17	MP2C	Z	42.573	5
18	MP2C	Mx	.057	5
19	MP2A	X	-81.735	.5
20	MP2A	Z	47.189	.5
21	MP2A	Mx	.086	.5
22	MP2A	X	-81.735	5
23	MP2A	Z	47.189	5
24	MP2A	Mx	.086	5
25	MP2B	X	-81.735	.5
26	MP2B	Z	47.189	.5
27	MP2B	Mx	-.023	.5
28	MP2B	X	-81.735	5
29	MP2B	Z	47.189	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP2B	Mx	-.023	5
31	MP2C	X	-109.319	.5
32	MP2C	Z	63.115	.5
33	MP2C	Mx	-.084	.5
34	MP2C	X	-109.319	5
35	MP2C	Z	63.115	5
36	MP2C	Mx	-.084	5
37	MP1A	X	-27.058	1.75
38	MP1A	Z	15.622	1.75
39	MP1A	Mx	.018	1.75
40	MP1A	X	-27.058	3.75
41	MP1A	Z	15.622	3.75
42	MP1A	Mx	.018	3.75
43	MP1B	X	-27.058	1.75
44	MP1B	Z	15.622	1.75
45	MP1B	Mx	-.018	1.75
46	MP1B	X	-27.058	3.75
47	MP1B	Z	15.622	3.75
48	MP1B	Mx	-.018	3.75
49	MP1C	X	-53.234	1.75
50	MP1C	Z	30.734	1.75
51	MP1C	Mx	0	1.75
52	MP1C	X	-53.234	3.75
53	MP1C	Z	30.734	3.75
54	MP1C	Mx	0	3.75
55	OVP1	X	-70.616	1
56	OVP1	Z	40.77	1
57	OVP1	Mx	0	1
58	MP2A	X	-31.709	2.5
59	MP2A	Z	18.307	2.5
60	MP2A	Mx	-.026	2.5
61	MP2B	X	-31.709	2.5
62	MP2B	Z	18.307	2.5
63	MP2B	Mx	.026	2.5
64	MP2C	X	-42.098	2.5
65	MP2C	Z	24.305	2.5
66	MP2C	Mx	0	2.5
67	MP3A	X	-29.672	2.5
68	MP3A	Z	17.131	2.5
69	MP3A	Mx	-.025	2.5
70	MP3B	X	-29.672	2.5
71	MP3B	Z	17.131	2.5
72	MP3B	Mx	.025	2.5
73	MP3C	X	-42.098	2.5
74	MP3C	Z	24.305	2.5
75	MP3C	Mx	0	2.5
76	MP2A	X	-11.815	4.35
77	MP2A	Z	6.821	4.35
78	MP2A	Mx	-.005	4.35
79	MP2B	X	-11.815	4.35
80	MP2B	Z	6.821	4.35
81	MP2B	Mx	.005	4.35
82	MP2C	X	-19.555	4.35
83	MP2C	Z	11.29	4.35
84	MP2C	Mx	0	4.35
85	MP4A	X	-110.511	.5
86	MP4A	Z	63.804	.5
87	MP4A	Mx	.08	.5
88	MP4A	X	-110.511	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
89	MP4A	Z	63.804	5
90	MP4A	Mx	.08	5
91	MP4B	X	-117.328	.5
92	MP4B	Z	67.739	.5
93	MP4B	Mx	-.078	.5
94	MP4B	X	-117.328	5
95	MP4B	Z	67.739	5
96	MP4B	Mx	-.078	5
97	MP4C	X	-155.762	.5
98	MP4C	Z	89.929	.5
99	MP4C	Mx	0	.5
100	MP4C	X	-155.762	5
101	MP4C	Z	89.929	5
102	MP4C	Mx	0	5
103	OVP	X	-70.616	1
104	OVP	Z	40.77	1
105	OVP	Mx	0	1
106	MP3A	X	-13.066	3
107	MP3A	Z	7.543	3
108	MP3A	Mx	-.011	3
109	MP3A	X	-13.066	5
110	MP3A	Z	7.543	5
111	MP3A	Mx	-.011	5
112	MP3B	X	-13.066	3
113	MP3B	Z	7.543	3
114	MP3B	Mx	.016	3
115	MP3B	X	-13.066	5
116	MP3B	Z	7.543	5
117	MP3B	Mx	.016	5
118	MP3A	X	-13.066	3
119	MP3A	Z	7.543	3
120	MP3A	Mx	-.016	3
121	MP3A	X	-13.066	5
122	MP3A	Z	7.543	5
123	MP3A	Mx	-.016	5
124	MP3B	X	-13.066	3
125	MP3B	Z	7.543	3
126	MP3B	Mx	.011	3
127	MP3B	X	-13.066	5
128	MP3B	Z	7.543	5
129	MP3B	Mx	.011	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-36.536	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	.024	.5
4	MP2A	X	-36.536	5
5	MP2A	Z	0	5
6	MP2A	Mx	.024	5
7	MP2B	X	-72.994	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	-.066	.5
10	MP2B	X	-72.994	5
11	MP2B	Z	0	5
12	MP2B	Mx	-.066	5
13	MP2C	X	-72.994	.5
14	MP2C	Z	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP2C	Mx	.018	.5
16	MP2C	X	-72.994	5
17	MP2C	Z	0	5
18	MP2C	Mx	.018	5
19	MP2A	X	-83.762	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	.056	.5
22	MP2A	X	-83.762	5
23	MP2A	Z	0	5
24	MP2A	Mx	.056	5
25	MP2B	X	-115.613	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	.028	.5
28	MP2B	X	-115.613	5
29	MP2B	Z	0	5
30	MP2B	Mx	.028	5
31	MP2C	X	-115.613	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	-.105	.5
34	MP2C	X	-115.613	5
35	MP2C	Z	0	5
36	MP2C	Mx	-.105	5
37	MP1A	X	-21.169	1.75
38	MP1A	Z	0	1.75
39	MP1A	Mx	.014	1.75
40	MP1A	X	-21.169	3.75
41	MP1A	Z	0	3.75
42	MP1A	Mx	.014	3.75
43	MP1B	X	-51.394	1.75
44	MP1B	Z	0	1.75
45	MP1B	Mx	-.017	1.75
46	MP1B	X	-51.394	3.75
47	MP1B	Z	0	3.75
48	MP1B	Mx	-.017	3.75
49	MP1C	X	-51.394	1.75
50	MP1C	Z	0	1.75
51	MP1C	Mx	-.017	1.75
52	MP1C	X	-51.394	3.75
53	MP1C	Z	0	3.75
54	MP1C	Mx	-.017	3.75
55	OVP1	X	-75.582	1
56	OVP1	Z	0	1
57	OVP1	Mx	0	1
58	MP2A	X	-32.616	2.5
59	MP2A	Z	0	2.5
60	MP2A	Mx	-.027	2.5
61	MP2B	X	-44.612	2.5
62	MP2B	Z	0	2.5
63	MP2B	Mx	.019	2.5
64	MP2C	X	-44.612	2.5
65	MP2C	Z	0	2.5
66	MP2C	Mx	.019	2.5
67	MP3A	X	-29.48	2.5
68	MP3A	Z	0	2.5
69	MP3A	Mx	-.025	2.5
70	MP3B	X	-43.828	2.5
71	MP3B	Z	0	2.5
72	MP3B	Mx	.018	2.5
73	MP3C	X	-43.828	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
74	MP3C	Z	0	2.5
75	MP3C	Mx	.018	2.5
76	MP2A	X	-10.663	4.35
77	MP2A	Z	0	4.35
78	MP2A	Mx	-.004	4.35
79	MP2B	X	-19.601	4.35
80	MP2B	Z	0	4.35
81	MP2B	Mx	.004	4.35
82	MP2C	X	-19.601	4.35
83	MP2C	Z	0	4.35
84	MP2C	Mx	.004	4.35
85	MP4A	X	-122.47	.5
86	MP4A	Z	0	.5
87	MP4A	Mx	.08	.5
88	MP4A	X	-122.47	5
89	MP4A	Z	0	5
90	MP4A	Mx	.08	5
91	MP4B	X	-165.066	.5
92	MP4B	Z	0	.5
93	MP4B	Mx	-.055	.5
94	MP4B	X	-165.066	5
95	MP4B	Z	0	5
96	MP4B	Mx	-.055	5
97	MP4C	X	-165.066	.5
98	MP4C	Z	0	.5
99	MP4C	Mx	-.055	.5
100	MP4C	X	-165.066	5
101	MP4C	Z	0	5
102	MP4C	Mx	-.055	5
103	OVP	X	-75.582	1
104	OVP	Z	0	1
105	OVP	Mx	0	1
106	MP3A	X	-15.098	3
107	MP3A	Z	0	3
108	MP3A	Mx	-.015	3
109	MP3A	X	-15.098	5
110	MP3A	Z	0	5
111	MP3A	Mx	-.015	5
112	MP3B	X	-15.065	3
113	MP3B	Z	0	3
114	MP3B	Mx	.012	3
115	MP3B	X	-15.065	5
116	MP3B	Z	0	5
117	MP3B	Mx	.012	5
118	MP3A	X	-15.098	3
119	MP3A	Z	0	3
120	MP3A	Mx	-.015	3
121	MP3A	X	-15.098	5
122	MP3A	Z	0	5
123	MP3A	Mx	-.015	5
124	MP3B	X	-15.065	3
125	MP3B	Z	0	3
126	MP3B	Mx	.003	3
127	MP3B	X	-15.065	5
128	MP3B	Z	0	5
129	MP3B	Mx	.003	5

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-42.166	.5
2	MP2A	Z	-24.344	.5
3	MP2A	Mx	.044	.5
4	MP2A	X	-42.166	5
5	MP2A	Z	-24.344	5
6	MP2A	Mx	.044	5
7	MP2B	X	-73.739	.5
8	MP2B	Z	-42.573	.5
9	MP2B	Mx	-.057	.5
10	MP2B	X	-73.739	5
11	MP2B	Z	-42.573	5
12	MP2B	Mx	-.057	5
13	MP2C	X	-42.166	.5
14	MP2C	Z	-24.344	.5
15	MP2C	Mx	-.012	.5
16	MP2C	X	-42.166	5
17	MP2C	Z	-24.344	5
18	MP2C	Mx	-.012	5
19	MP2A	X	-81.735	.5
20	MP2A	Z	-47.189	.5
21	MP2A	Mx	.023	.5
22	MP2A	X	-81.735	5
23	MP2A	Z	-47.189	5
24	MP2A	Mx	.023	5
25	MP2B	X	-109.319	.5
26	MP2B	Z	-63.115	.5
27	MP2B	Mx	.084	.5
28	MP2B	X	-109.319	5
29	MP2B	Z	-63.115	5
30	MP2B	Mx	.084	5
31	MP2C	X	-81.735	.5
32	MP2C	Z	-47.189	.5
33	MP2C	Mx	-.086	.5
34	MP2C	X	-81.735	5
35	MP2C	Z	-47.189	5
36	MP2C	Mx	-.086	5
37	MP1A	X	-27.058	1.75
38	MP1A	Z	-15.622	1.75
39	MP1A	Mx	.018	1.75
40	MP1A	X	-27.058	3.75
41	MP1A	Z	-15.622	3.75
42	MP1A	Mx	.018	3.75
43	MP1B	X	-53.234	1.75
44	MP1B	Z	-30.734	1.75
45	MP1B	Mx	0	1.75
46	MP1B	X	-53.234	3.75
47	MP1B	Z	-30.734	3.75
48	MP1B	Mx	0	3.75
49	MP1C	X	-27.058	1.75
50	MP1C	Z	-15.622	1.75
51	MP1C	Mx	-.018	1.75
52	MP1C	X	-27.058	3.75
53	MP1C	Z	-15.622	3.75
54	MP1C	Mx	-.018	3.75
55	OVP1	X	-70.616	1
56	OVP1	Z	-40.77	1
57	OVP1	Mx	0	1
58	MP2A	X	-31.709	2.5
59	MP2A	Z	-18.307	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
60	MP2A	Mx	-.026	2.5
61	MP2B	X	-42.098	2.5
62	MP2B	Z	-24.305	2.5
63	MP2B	Mx	0	2.5
64	MP2C	X	-31.709	2.5
65	MP2C	Z	-18.307	2.5
66	MP2C	Mx	.026	2.5
67	MP3A	X	-29.672	2.5
68	MP3A	Z	-17.131	2.5
69	MP3A	Mx	-.025	2.5
70	MP3B	X	-42.098	2.5
71	MP3B	Z	-24.305	2.5
72	MP3B	Mx	0	2.5
73	MP3C	X	-29.672	2.5
74	MP3C	Z	-17.131	2.5
75	MP3C	Mx	.025	2.5
76	MP2A	X	-11.815	4.35
77	MP2A	Z	-6.821	4.35
78	MP2A	Mx	-.005	4.35
79	MP2B	X	-19.555	4.35
80	MP2B	Z	-11.29	4.35
81	MP2B	Mx	0	4.35
82	MP2C	X	-11.815	4.35
83	MP2C	Z	-6.821	4.35
84	MP2C	Mx	.005	4.35
85	MP4A	X	-125.69	.5
86	MP4A	Z	-72.567	.5
87	MP4A	Mx	.074	.5
88	MP4A	X	-125.69	5
89	MP4A	Z	-72.567	5
90	MP4A	Mx	.074	5
91	MP4B	X	-155.762	.5
92	MP4B	Z	-89.929	.5
93	MP4B	Mx	0	.5
94	MP4B	X	-155.762	5
95	MP4B	Z	-89.929	5
96	MP4B	Mx	0	5
97	MP4C	X	-117.328	.5
98	MP4C	Z	-67.739	.5
99	MP4C	Mx	-.078	.5
100	MP4C	X	-117.328	5
101	MP4C	Z	-67.739	5
102	MP4C	Mx	-.078	5
103	OVP	X	-70.616	1
104	OVP	Z	-40.77	1
105	OVP	Mx	0	1
106	MP3A	X	-13.066	3
107	MP3A	Z	-7.543	3
108	MP3A	Mx	-.016	3
109	MP3A	X	-13.066	5
110	MP3A	Z	-7.543	5
111	MP3A	Mx	-.016	5
112	MP3B	X	-13.037	3
113	MP3B	Z	-7.527	3
114	MP3B	Mx	.005	3
115	MP3B	X	-13.037	5
116	MP3B	Z	-7.527	5
117	MP3B	Mx	.005	5
118	MP3A	X	-13.066	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
119	MP3A	Z	-7.543	3
120	MP3A	Mx	-.011	3
121	MP3A	X	-13.066	5
122	MP3A	Z	-7.543	5
123	MP3A	Mx	-.011	5
124	MP3B	X	-13.037	3
125	MP3B	Z	-7.527	3
126	MP3B	Mx	-.005	3
127	MP3B	X	-13.037	5
128	MP3B	Z	-7.527	5
129	MP3B	Mx	-.005	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-36.497	.5
2	MP2A	Z	-63.215	.5
3	MP2A	Mx	.066	.5
4	MP2A	X	-36.497	5
5	MP2A	Z	-63.215	5
6	MP2A	Mx	.066	5
7	MP2B	X	-36.497	.5
8	MP2B	Z	-63.215	.5
9	MP2B	Mx	-.018	.5
10	MP2B	X	-36.497	5
11	MP2B	Z	-63.215	5
12	MP2B	Mx	-.018	5
13	MP2C	X	-18.268	.5
14	MP2C	Z	-31.641	.5
15	MP2C	Mx	-.024	.5
16	MP2C	X	-18.268	5
17	MP2C	Z	-31.641	5
18	MP2C	Mx	-.024	5
19	MP2A	X	-57.807	.5
20	MP2A	Z	-100.124	.5
21	MP2A	Mx	-.028	.5
22	MP2A	X	-57.807	5
23	MP2A	Z	-100.124	5
24	MP2A	Mx	-.028	5
25	MP2B	X	-57.807	.5
26	MP2B	Z	-100.124	.5
27	MP2B	Mx	.105	.5
28	MP2B	X	-57.807	5
29	MP2B	Z	-100.124	5
30	MP2B	Mx	.105	5
31	MP2C	X	-41.881	.5
32	MP2C	Z	-72.54	.5
33	MP2C	Mx	-.056	.5
34	MP2C	X	-41.881	5
35	MP2C	Z	-72.54	5
36	MP2C	Mx	-.056	5
37	MP1A	X	-25.697	1.75
38	MP1A	Z	-44.508	1.75
39	MP1A	Mx	.017	1.75
40	MP1A	X	-25.697	3.75
41	MP1A	Z	-44.508	3.75
42	MP1A	Mx	.017	3.75
43	MP1B	X	-25.697	1.75
44	MP1B	Z	-44.508	1.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP1B	Mx	.017	1.75
46	MP1B	X	-25.697	3.75
47	MP1B	Z	-44.508	3.75
48	MP1B	Mx	.017	3.75
49	MP1C	X	-10.585	1.75
50	MP1C	Z	-18.333	1.75
51	MP1C	Mx	-.014	1.75
52	MP1C	X	-10.585	3.75
53	MP1C	Z	-18.333	3.75
54	MP1C	Mx	-.014	3.75
55	OVP1	X	-46.729	1
56	OVP1	Z	-80.937	1
57	OVP1	Mx	0	1
58	MP2A	X	-22.306	2.5
59	MP2A	Z	-38.635	2.5
60	MP2A	Mx	-.019	2.5
61	MP2B	X	-22.306	2.5
62	MP2B	Z	-38.635	2.5
63	MP2B	Mx	-.019	2.5
64	MP2C	X	-16.308	2.5
65	MP2C	Z	-28.246	2.5
66	MP2C	Mx	.027	2.5
67	MP3A	X	-21.914	2.5
68	MP3A	Z	-37.956	2.5
69	MP3A	Mx	-.018	2.5
70	MP3B	X	-21.914	2.5
71	MP3B	Z	-37.956	2.5
72	MP3B	Mx	-.018	2.5
73	MP3C	X	-14.74	2.5
74	MP3C	Z	-25.53	2.5
75	MP3C	Mx	.025	2.5
76	MP2A	X	-9.801	4.35
77	MP2A	Z	-16.975	4.35
78	MP2A	Mx	-.004	4.35
79	MP2B	X	-9.801	4.35
80	MP2B	Z	-16.975	4.35
81	MP2B	Mx	-.004	4.35
82	MP2C	X	-5.331	4.35
83	MP2C	Z	-9.234	4.35
84	MP2C	Mx	.004	4.35
85	MP4A	X	-86.468	.5
86	MP4A	Z	-149.768	.5
87	MP4A	Mx	.039	.5
88	MP4A	X	-86.468	5
89	MP4A	Z	-149.768	5
90	MP4A	Mx	.039	5
91	MP4B	X	-82.533	.5
92	MP4B	Z	-142.951	.5
93	MP4B	Mx	.055	.5
94	MP4B	X	-82.533	5
95	MP4B	Z	-142.951	5
96	MP4B	Mx	.055	5
97	MP4C	X	-60.343	.5
98	MP4C	Z	-104.517	.5
99	MP4C	Mx	-.08	.5
100	MP4C	X	-60.343	5
101	MP4C	Z	-104.517	5
102	MP4C	Mx	-.08	5
103	OVP	X	-46.729	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
104	OVP	Z	-80.937	1
105	OVP	Mx	0	1
106	MP3A	X	-7.532	3
107	MP3A	Z	-13.046	3
108	MP3A	Mx	-.012	3
109	MP3A	X	-7.532	5
110	MP3A	Z	-13.046	5
111	MP3A	Mx	-.012	5
112	MP3B	X	-7.532	3
113	MP3B	Z	-13.046	3
114	MP3B	Mx	-.003	3
115	MP3B	X	-7.532	5
116	MP3B	Z	-13.046	5
117	MP3B	Mx	-.003	5
118	MP3A	X	-7.532	3
119	MP3A	Z	-13.046	3
120	MP3A	Mx	-.003	3
121	MP3A	X	-7.532	5
122	MP3A	Z	-13.046	5
123	MP3A	Mx	-.003	5
124	MP3B	X	-7.532	3
125	MP3B	Z	-13.046	3
126	MP3B	Mx	-.012	3
127	MP3B	X	-7.532	5
128	MP3B	Z	-13.046	5
129	MP3B	Mx	-.012	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	-25.409	.5
3	MP2A	Mx	.017	.5
4	MP2A	X	0	5
5	MP2A	Z	-25.409	5
6	MP2A	Mx	.017	5
7	MP2B	X	0	.5
8	MP2B	Z	-19.736	.5
9	MP2B	Mx	.005	.5
10	MP2B	X	0	5
11	MP2B	Z	-19.736	5
12	MP2B	Mx	.005	5
13	MP2C	X	0	.5
14	MP2C	Z	-19.736	.5
15	MP2C	Mx	-.018	.5
16	MP2C	X	0	5
17	MP2C	Z	-19.736	5
18	MP2C	Mx	-.018	5
19	MP2A	X	0	.5
20	MP2A	Z	-25.409	.5
21	MP2A	Mx	-.017	.5
22	MP2A	X	0	5
23	MP2A	Z	-25.409	5
24	MP2A	Mx	-.017	5
25	MP2B	X	0	.5
26	MP2B	Z	-19.736	.5
27	MP2B	Mx	.018	.5
28	MP2B	X	0	5
29	MP2B	Z	-19.736	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP2B	Mx	.018	5
31	MP2C	X	0	.5
32	MP2C	Z	-19.736	.5
33	MP2C	Mx	-.005	.5
34	MP2C	X	0	5
35	MP2C	Z	-19.736	5
36	MP2C	Mx	-.005	5
37	MP1A	X	0	1.75
38	MP1A	Z	-15.272	1.75
39	MP1A	Mx	0	1.75
40	MP1A	X	0	3.75
41	MP1A	Z	-15.272	3.75
42	MP1A	Mx	0	3.75
43	MP1B	X	0	1.75
44	MP1B	Z	-8.893	1.75
45	MP1B	Mx	.005	1.75
46	MP1B	X	0	3.75
47	MP1B	Z	-8.893	3.75
48	MP1B	Mx	.005	3.75
49	MP1C	X	0	1.75
50	MP1C	Z	-8.893	1.75
51	MP1C	Mx	-.005	1.75
52	MP1C	X	0	3.75
53	MP1C	Z	-8.893	3.75
54	MP1C	Mx	-.005	3.75
55	OVP1	X	0	1
56	OVP1	Z	-26.521	1
57	OVP1	Mx	0	1
58	MP2A	X	0	2.5
59	MP2A	Z	-13.208	2.5
60	MP2A	Mx	0	2.5
61	MP2B	X	0	2.5
62	MP2B	Z	-10.319	2.5
63	MP2B	Mx	-.007	2.5
64	MP2C	X	0	2.5
65	MP2C	Z	-10.319	2.5
66	MP2C	Mx	.007	2.5
67	MP3A	X	0	2.5
68	MP3A	Z	-13.208	2.5
69	MP3A	Mx	0	2.5
70	MP3B	X	0	2.5
71	MP3B	Z	-9.799	2.5
72	MP3B	Mx	-.007	2.5
73	MP3C	X	0	2.5
74	MP3C	Z	-9.799	2.5
75	MP3C	Mx	.007	2.5
76	MP2A	X	0	4.35
77	MP2A	Z	-7.749	4.35
78	MP2A	Mx	0	4.35
79	MP2B	X	0	4.35
80	MP2B	Z	-5.372	4.35
81	MP2B	Mx	-.002	4.35
82	MP2C	X	0	4.35
83	MP2C	Z	-5.372	4.35
84	MP2C	Mx	.002	4.35
85	MP4A	X	0	.5
86	MP4A	Z	-35.245	.5
87	MP4A	Mx	-.004	.5
88	MP4A	X	0	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
89	MP4A	Z	-35.245	5
90	MP4A	Mx	-.004	5
91	MP4B	X	0	.5
92	MP4B	Z	-27.69	.5
93	MP4B	Mx	.016	.5
94	MP4B	X	0	5
95	MP4B	Z	-27.69	5
96	MP4B	Mx	.016	5
97	MP4C	X	0	.5
98	MP4C	Z	-27.69	.5
99	MP4C	Mx	-.016	.5
100	MP4C	X	0	5
101	MP4C	Z	-27.69	5
102	MP4C	Mx	-.016	5
103	OVP	X	0	1
104	OVP	Z	-26.521	1
105	OVP	Mx	0	1
106	MP3A	X	0	3
107	MP3A	Z	-1.542	3
108	MP3A	Mx	-.000514	3
109	MP3A	X	0	5
110	MP3A	Z	-1.542	5
111	MP3A	Mx	-.000514	5
112	MP3B	X	0	3
113	MP3B	Z	-3.19	3
114	MP3B	Mx	-.002	3
115	MP3B	X	0	5
116	MP3B	Z	-3.19	5
117	MP3B	Mx	-.002	5
118	MP3A	X	0	3
119	MP3A	Z	-1.542	3
120	MP3A	Mx	.000514	3
121	MP3A	X	0	5
122	MP3A	Z	-1.542	5
123	MP3A	Mx	.000514	5
124	MP3B	X	0	3
125	MP3B	Z	-3.19	3
126	MP3B	Mx	-.003	3
127	MP3B	X	0	5
128	MP3B	Z	-3.19	5
129	MP3B	Mx	-.003	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	11.759	.5
2	MP2A	Z	-20.367	.5
3	MP2A	Mx	.006	.5
4	MP2A	X	11.759	5
5	MP2A	Z	-20.367	5
6	MP2A	Mx	.006	5
7	MP2B	X	8.923	.5
8	MP2B	Z	-15.454	.5
9	MP2B	Mx	.012	.5
10	MP2B	X	8.923	5
11	MP2B	Z	-15.454	5
12	MP2B	Mx	.012	5
13	MP2C	X	11.759	.5
14	MP2C	Z	-20.367	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP2C	Mx	-.021	.5
16	MP2C	X	11.759	5
17	MP2C	Z	-20.367	5
18	MP2C	Mx	-.021	5
19	MP2A	X	11.759	.5
20	MP2A	Z	-20.367	.5
21	MP2A	Mx	-.021	.5
22	MP2A	X	11.759	5
23	MP2A	Z	-20.367	5
24	MP2A	Mx	-.021	5
25	MP2B	X	8.923	.5
26	MP2B	Z	-15.454	.5
27	MP2B	Mx	.012	.5
28	MP2B	X	8.923	5
29	MP2B	Z	-15.454	5
30	MP2B	Mx	.012	5
31	MP2C	X	11.759	.5
32	MP2C	Z	-20.367	.5
33	MP2C	Mx	.006	.5
34	MP2C	X	11.759	5
35	MP2C	Z	-20.367	5
36	MP2C	Mx	.006	5
37	MP1A	X	6.573	1.75
38	MP1A	Z	-11.384	1.75
39	MP1A	Mx	-.004	1.75
40	MP1A	X	6.573	3.75
41	MP1A	Z	-11.384	3.75
42	MP1A	Mx	-.004	3.75
43	MP1B	X	3.383	1.75
44	MP1B	Z	-5.86	1.75
45	MP1B	Mx	.005	1.75
46	MP1B	X	3.383	3.75
47	MP1B	Z	-5.86	3.75
48	MP1B	Mx	.005	3.75
49	MP1C	X	6.573	1.75
50	MP1C	Z	-11.384	1.75
51	MP1C	Mx	-.004	1.75
52	MP1C	X	6.573	3.75
53	MP1C	Z	-11.384	3.75
54	MP1C	Mx	-.004	3.75
55	OVP1	X	12.564	1
56	OVP1	Z	-21.762	1
57	OVP1	Mx	0	1
58	MP2A	X	6.122	2.5
59	MP2A	Z	-10.604	2.5
60	MP2A	Mx	.005	2.5
61	MP2B	X	4.678	2.5
62	MP2B	Z	-8.103	2.5
63	MP2B	Mx	-.008	2.5
64	MP2C	X	6.122	2.5
65	MP2C	Z	-10.604	2.5
66	MP2C	Mx	.005	2.5
67	MP3A	X	6.036	2.5
68	MP3A	Z	-10.454	2.5
69	MP3A	Mx	.005	2.5
70	MP3B	X	4.331	2.5
71	MP3B	Z	-7.502	2.5
72	MP3B	Mx	-.007	2.5
73	MP3C	X	6.036	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
74	MP3C	Z	-10.454	2.5
75	MP3C	Mx	.005	2.5
76	MP2A	X	3.478	4.35
77	MP2A	Z	-6.025	4.35
78	MP2A	Mx	.001	4.35
79	MP2B	X	2.29	4.35
80	MP2B	Z	-3.966	4.35
81	MP2B	Mx	-.002	4.35
82	MP2C	X	3.478	4.35
83	MP2C	Z	-6.025	4.35
84	MP2C	Mx	.001	4.35
85	MP4A	X	15.613	.5
86	MP4A	Z	-27.042	.5
87	MP4A	Mx	-.013	.5
88	MP4A	X	15.613	5
89	MP4A	Z	-27.042	5
90	MP4A	Mx	-.013	5
91	MP4B	X	12.533	.5
92	MP4B	Z	-21.708	.5
93	MP4B	Mx	.017	.5
94	MP4B	X	12.533	5
95	MP4B	Z	-21.708	5
96	MP4B	Mx	.017	5
97	MP4C	X	16.469	.5
98	MP4C	Z	-28.525	.5
99	MP4C	Mx	-.011	.5
100	MP4C	X	16.469	5
101	MP4C	Z	-28.525	5
102	MP4C	Mx	-.011	5
103	OVP	X	12.564	1
104	OVP	Z	-21.762	1
105	OVP	Mx	0	1
106	MP3A	X	1.045	3
107	MP3A	Z	-1.811	3
108	MP3A	Mx	.000441	3
109	MP3A	X	1.045	5
110	MP3A	Z	-1.811	5
111	MP3A	Mx	.000441	5
112	MP3B	X	1.87	3
113	MP3B	Z	-3.238	3
114	MP3B	Mx	-.004	3
115	MP3B	X	1.87	5
116	MP3B	Z	-3.238	5
117	MP3B	Mx	-.004	5
118	MP3A	X	1.045	3
119	MP3A	Z	-1.811	3
120	MP3A	Mx	.002	3
121	MP3A	X	1.045	5
122	MP3A	Z	-1.811	5
123	MP3A	Mx	.002	5
124	MP3B	X	1.87	3
125	MP3B	Z	-3.238	3
126	MP3B	Mx	-.004	3
127	MP3B	X	1.87	5
128	MP3B	Z	-3.238	5
129	MP3B	Mx	-.004	5

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	17.092	.5
2	MP2A	Z	-9.868	.5
3	MP2A	Mx	-.005	.5
4	MP2A	X	17.092	5
5	MP2A	Z	-9.868	5
6	MP2A	Mx	-.005	5
7	MP2B	X	17.092	.5
8	MP2B	Z	-9.868	.5
9	MP2B	Mx	.018	.5
10	MP2B	X	17.092	5
11	MP2B	Z	-9.868	5
12	MP2B	Mx	.018	5
13	MP2C	X	22.005	.5
14	MP2C	Z	-12.705	.5
15	MP2C	Mx	-.017	.5
16	MP2C	X	22.005	5
17	MP2C	Z	-12.705	5
18	MP2C	Mx	-.017	5
19	MP2A	X	17.092	.5
20	MP2A	Z	-9.868	.5
21	MP2A	Mx	-.018	.5
22	MP2A	X	17.092	5
23	MP2A	Z	-9.868	5
24	MP2A	Mx	-.018	5
25	MP2B	X	17.092	.5
26	MP2B	Z	-9.868	.5
27	MP2B	Mx	.005	.5
28	MP2B	X	17.092	5
29	MP2B	Z	-9.868	5
30	MP2B	Mx	.005	5
31	MP2C	X	22.005	.5
32	MP2C	Z	-12.705	.5
33	MP2C	Mx	.017	.5
34	MP2C	X	22.005	5
35	MP2C	Z	-12.705	5
36	MP2C	Mx	.017	5
37	MP1A	X	7.701	1.75
38	MP1A	Z	-4.446	1.75
39	MP1A	Mx	-.005	1.75
40	MP1A	X	7.701	3.75
41	MP1A	Z	-4.446	3.75
42	MP1A	Mx	-.005	3.75
43	MP1B	X	7.701	1.75
44	MP1B	Z	-4.446	1.75
45	MP1B	Mx	.005	1.75
46	MP1B	X	7.701	3.75
47	MP1B	Z	-4.446	3.75
48	MP1B	Mx	.005	3.75
49	MP1C	X	13.226	1.75
50	MP1C	Z	-7.636	1.75
51	MP1C	Mx	0	1.75
52	MP1C	X	13.226	3.75
53	MP1C	Z	-7.636	3.75
54	MP1C	Mx	0	3.75
55	OVP1	X	19.35	1
56	OVP1	Z	-11.172	1
57	OVP1	Mx	0	1
58	MP2A	X	8.936	2.5
59	MP2A	Z	-5.159	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
60	MP2A	Mx	.007	2.5
61	MP2B	X	8.936	2.5
62	MP2B	Z	-5.159	2.5
63	MP2B	Mx	-.007	2.5
64	MP2C	X	11.438	2.5
65	MP2C	Z	-6.604	2.5
66	MP2C	Mx	0	2.5
67	MP3A	X	8.486	2.5
68	MP3A	Z	-4.899	2.5
69	MP3A	Mx	.007	2.5
70	MP3B	X	8.486	2.5
71	MP3B	Z	-4.899	2.5
72	MP3B	Mx	-.007	2.5
73	MP3C	X	11.438	2.5
74	MP3C	Z	-6.604	2.5
75	MP3C	Mx	0	2.5
76	MP2A	X	4.652	4.35
77	MP2A	Z	-2.686	4.35
78	MP2A	Mx	.002	4.35
79	MP2B	X	4.652	4.35
80	MP2B	Z	-2.686	4.35
81	MP2B	Mx	-.002	4.35
82	MP2C	X	6.711	4.35
83	MP2C	Z	-3.875	4.35
84	MP2C	Mx	0	4.35
85	MP4A	X	22.771	.5
86	MP4A	Z	-13.147	.5
87	MP4A	Mx	-.016	.5
88	MP4A	X	22.771	5
89	MP4A	Z	-13.147	5
90	MP4A	Mx	-.016	5
91	MP4B	X	23.98	.5
92	MP4B	Z	-13.845	.5
93	MP4B	Mx	.016	.5
94	MP4B	X	23.98	5
95	MP4B	Z	-13.845	5
96	MP4B	Mx	.016	5
97	MP4C	X	30.797	.5
98	MP4C	Z	-17.781	.5
99	MP4C	Mx	0	.5
100	MP4C	X	30.797	5
101	MP4C	Z	-17.781	5
102	MP4C	Mx	0	5
103	OVP	X	19.35	1
104	OVP	Z	-11.172	1
105	OVP	Mx	0	1
106	MP3A	X	2.762	3
107	MP3A	Z	-1.595	3
108	MP3A	Mx	.002	3
109	MP3A	X	2.762	5
110	MP3A	Z	-1.595	5
111	MP3A	Mx	.002	5
112	MP3B	X	2.762	3
113	MP3B	Z	-1.595	3
114	MP3B	Mx	-.003	3
115	MP3B	X	2.762	5
116	MP3B	Z	-1.595	5
117	MP3B	Mx	-.003	5
118	MP3A	X	2.762	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
119	MP3A	Z	-1.595	3
120	MP3A	Mx	.003	3
121	MP3A	X	2.762	5
122	MP3A	Z	-1.595	5
123	MP3A	Mx	.003	5
124	MP3B	X	2.762	3
125	MP3B	Z	-1.595	3
126	MP3B	Mx	-.002	3
127	MP3B	X	2.762	5
128	MP3B	Z	-1.595	5
129	MP3B	Mx	-.002	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	17.845	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	-.012	.5
4	MP2A	X	17.845	5
5	MP2A	Z	0	5
6	MP2A	Mx	-.012	5
7	MP2B	X	23.518	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	.021	.5
10	MP2B	X	23.518	5
11	MP2B	Z	0	5
12	MP2B	Mx	.021	5
13	MP2C	X	23.518	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	-.006	.5
16	MP2C	X	23.518	5
17	MP2C	Z	0	5
18	MP2C	Mx	-.006	5
19	MP2A	X	17.845	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	-.012	.5
22	MP2A	X	17.845	5
23	MP2A	Z	0	5
24	MP2A	Mx	-.012	5
25	MP2B	X	23.518	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	-.006	.5
28	MP2B	X	23.518	5
29	MP2B	Z	0	5
30	MP2B	Mx	-.006	5
31	MP2C	X	23.518	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	.021	.5
34	MP2C	X	23.518	5
35	MP2C	Z	0	5
36	MP2C	Mx	.021	5
37	MP1A	X	6.766	1.75
38	MP1A	Z	0	1.75
39	MP1A	Mx	-.005	1.75
40	MP1A	X	6.766	3.75
41	MP1A	Z	0	3.75
42	MP1A	Mx	-.005	3.75
43	MP1B	X	13.145	1.75
44	MP1B	Z	0	1.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP1B	Mx	.004	1.75
46	MP1B	X	13.145	3.75
47	MP1B	Z	0	3.75
48	MP1B	Mx	.004	3.75
49	MP1C	X	13.145	1.75
50	MP1C	Z	0	1.75
51	MP1C	Mx	.004	1.75
52	MP1C	X	13.145	3.75
53	MP1C	Z	0	3.75
54	MP1C	Mx	.004	3.75
55	OVP1	X	20.951	1
56	OVP1	Z	0	1
57	OVP1	Mx	0	1
58	MP2A	X	9.356	2.5
59	MP2A	Z	0	2.5
60	MP2A	Mx	.008	2.5
61	MP2B	X	12.245	2.5
62	MP2B	Z	0	2.5
63	MP2B	Mx	-.005	2.5
64	MP2C	X	12.245	2.5
65	MP2C	Z	0	2.5
66	MP2C	Mx	-.005	2.5
67	MP3A	X	8.663	2.5
68	MP3A	Z	0	2.5
69	MP3A	Mx	.007	2.5
70	MP3B	X	12.072	2.5
71	MP3B	Z	0	2.5
72	MP3B	Mx	-.005	2.5
73	MP3C	X	12.072	2.5
74	MP3C	Z	0	2.5
75	MP3C	Mx	-.005	2.5
76	MP2A	X	4.579	4.35
77	MP2A	Z	0	4.35
78	MP2A	Mx	.002	4.35
79	MP2B	X	6.957	4.35
80	MP2B	Z	0	4.35
81	MP2B	Mx	-.001	4.35
82	MP2C	X	6.957	4.35
83	MP2C	Z	0	4.35
84	MP2C	Mx	-.001	4.35
85	MP4A	X	25.383	.5
86	MP4A	Z	0	.5
87	MP4A	Mx	-.017	.5
88	MP4A	X	25.383	5
89	MP4A	Z	0	5
90	MP4A	Mx	-.017	5
91	MP4B	X	32.938	.5
92	MP4B	Z	0	.5
93	MP4B	Mx	.011	.5
94	MP4B	X	32.938	5
95	MP4B	Z	0	5
96	MP4B	Mx	.011	5
97	MP4C	X	32.938	.5
98	MP4C	Z	0	.5
99	MP4C	Mx	.011	.5
100	MP4C	X	32.938	5
101	MP4C	Z	0	5
102	MP4C	Mx	.011	5
103	OVP	X	20.951	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
104	OVP	Z	0	1
105	OVP	Mx	0	1
106	MP3A	X	3.739	3
107	MP3A	Z	0	3
108	MP3A	Mx	.004	3
109	MP3A	X	3.739	5
110	MP3A	Z	0	5
111	MP3A	Mx	.004	5
112	MP3B	X	2.091	3
113	MP3B	Z	0	3
114	MP3B	Mx	-.002	3
115	MP3B	X	2.091	5
116	MP3B	Z	0	5
117	MP3B	Mx	-.002	5
118	MP3A	X	3.739	3
119	MP3A	Z	0	3
120	MP3A	Mx	.004	3
121	MP3A	X	3.739	5
122	MP3A	Z	0	5
123	MP3A	Mx	.004	5
124	MP3B	X	2.091	3
125	MP3B	Z	0	3
126	MP3B	Mx	-.000442	3
127	MP3B	X	2.091	5
128	MP3B	Z	0	5
129	MP3B	Mx	-.000442	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	17.092	.5
2	MP2A	Z	9.868	.5
3	MP2A	Mx	-.018	.5
4	MP2A	X	17.092	5
5	MP2A	Z	9.868	5
6	MP2A	Mx	-.018	5
7	MP2B	X	22.005	.5
8	MP2B	Z	12.705	.5
9	MP2B	Mx	.017	.5
10	MP2B	X	22.005	5
11	MP2B	Z	12.705	5
12	MP2B	Mx	.017	5
13	MP2C	X	17.092	.5
14	MP2C	Z	9.868	.5
15	MP2C	Mx	.005	.5
16	MP2C	X	17.092	5
17	MP2C	Z	9.868	5
18	MP2C	Mx	.005	5
19	MP2A	X	17.092	.5
20	MP2A	Z	9.868	.5
21	MP2A	Mx	-.005	.5
22	MP2A	X	17.092	5
23	MP2A	Z	9.868	5
24	MP2A	Mx	-.005	5
25	MP2B	X	22.005	.5
26	MP2B	Z	12.705	.5
27	MP2B	Mx	-.017	.5
28	MP2B	X	22.005	5
29	MP2B	Z	12.705	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP2B	Mx	-.017	5
31	MP2C	X	17.092	.5
32	MP2C	Z	9.868	.5
33	MP2C	Mx	.018	.5
34	MP2C	X	17.092	5
35	MP2C	Z	9.868	5
36	MP2C	Mx	.018	5
37	MP1A	X	7.701	1.75
38	MP1A	Z	4.446	1.75
39	MP1A	Mx	-.005	1.75
40	MP1A	X	7.701	3.75
41	MP1A	Z	4.446	3.75
42	MP1A	Mx	-.005	3.75
43	MP1B	X	13.226	1.75
44	MP1B	Z	7.636	1.75
45	MP1B	Mx	0	1.75
46	MP1B	X	13.226	3.75
47	MP1B	Z	7.636	3.75
48	MP1B	Mx	0	3.75
49	MP1C	X	7.701	1.75
50	MP1C	Z	4.446	1.75
51	MP1C	Mx	.005	1.75
52	MP1C	X	7.701	3.75
53	MP1C	Z	4.446	3.75
54	MP1C	Mx	.005	3.75
55	OVP1	X	19.35	1
56	OVP1	Z	11.172	1
57	OVP1	Mx	0	1
58	MP2A	X	8.936	2.5
59	MP2A	Z	5.159	2.5
60	MP2A	Mx	.007	2.5
61	MP2B	X	11.438	2.5
62	MP2B	Z	6.604	2.5
63	MP2B	Mx	0	2.5
64	MP2C	X	8.936	2.5
65	MP2C	Z	5.159	2.5
66	MP2C	Mx	-.007	2.5
67	MP3A	X	8.486	2.5
68	MP3A	Z	4.899	2.5
69	MP3A	Mx	.007	2.5
70	MP3B	X	11.438	2.5
71	MP3B	Z	6.604	2.5
72	MP3B	Mx	0	2.5
73	MP3C	X	8.486	2.5
74	MP3C	Z	4.899	2.5
75	MP3C	Mx	-.007	2.5
76	MP2A	X	4.652	4.35
77	MP2A	Z	2.686	4.35
78	MP2A	Mx	.002	4.35
79	MP2B	X	6.711	4.35
80	MP2B	Z	3.875	4.35
81	MP2B	Mx	0	4.35
82	MP2C	X	4.652	4.35
83	MP2C	Z	2.686	4.35
84	MP2C	Mx	-.002	4.35
85	MP4A	X	25.464	.5
86	MP4A	Z	14.701	.5
87	MP4A	Mx	-.015	.5
88	MP4A	X	25.464	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
89	MP4A	Z	14.701	5
90	MP4A	Mx	-.015	5
91	MP4B	X	30.797	.5
92	MP4B	Z	17.781	.5
93	MP4B	Mx	0	.5
94	MP4B	X	30.797	5
95	MP4B	Z	17.781	5
96	MP4B	Mx	0	5
97	MP4C	X	23.98	.5
98	MP4C	Z	13.845	.5
99	MP4C	Mx	.016	.5
100	MP4C	X	23.98	5
101	MP4C	Z	13.845	5
102	MP4C	Mx	.016	5
103	OVP	X	19.35	1
104	OVP	Z	11.172	1
105	OVP	Mx	0	1
106	MP3A	X	2.762	3
107	MP3A	Z	1.595	3
108	MP3A	Mx	.003	3
109	MP3A	X	2.762	5
110	MP3A	Z	1.595	5
111	MP3A	Mx	.003	5
112	MP3B	X	1.335	3
113	MP3B	Z	.771	3
114	MP3B	Mx	-.000514	3
115	MP3B	X	1.335	5
116	MP3B	Z	.771	5
117	MP3B	Mx	-.000514	5
118	MP3A	X	2.762	3
119	MP3A	Z	1.595	3
120	MP3A	Mx	.002	3
121	MP3A	X	2.762	5
122	MP3A	Z	1.595	5
123	MP3A	Mx	.002	5
124	MP3B	X	1.335	3
125	MP3B	Z	.771	3
126	MP3B	Mx	.000514	3
127	MP3B	X	1.335	5
128	MP3B	Z	.771	5
129	MP3B	Mx	.000514	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	11.759	.5
2	MP2A	Z	20.367	.5
3	MP2A	Mx	-.021	.5
4	MP2A	X	11.759	5
5	MP2A	Z	20.367	5
6	MP2A	Mx	-.021	5
7	MP2B	X	11.759	.5
8	MP2B	Z	20.367	.5
9	MP2B	Mx	.006	.5
10	MP2B	X	11.759	5
11	MP2B	Z	20.367	5
12	MP2B	Mx	.006	5
13	MP2C	X	8.923	.5
14	MP2C	Z	15.454	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP2C	Mx	.012	.5
16	MP2C	X	8.923	5
17	MP2C	Z	15.454	5
18	MP2C	Mx	.012	5
19	MP2A	X	11.759	.5
20	MP2A	Z	20.367	.5
21	MP2A	Mx	.006	.5
22	MP2A	X	11.759	5
23	MP2A	Z	20.367	5
24	MP2A	Mx	.006	5
25	MP2B	X	11.759	.5
26	MP2B	Z	20.367	.5
27	MP2B	Mx	-.021	.5
28	MP2B	X	11.759	5
29	MP2B	Z	20.367	5
30	MP2B	Mx	-.021	5
31	MP2C	X	8.923	.5
32	MP2C	Z	15.454	.5
33	MP2C	Mx	.012	.5
34	MP2C	X	8.923	5
35	MP2C	Z	15.454	5
36	MP2C	Mx	.012	5
37	MP1A	X	6.573	1.75
38	MP1A	Z	11.384	1.75
39	MP1A	Mx	-.004	1.75
40	MP1A	X	6.573	3.75
41	MP1A	Z	11.384	3.75
42	MP1A	Mx	-.004	3.75
43	MP1B	X	6.573	1.75
44	MP1B	Z	11.384	1.75
45	MP1B	Mx	-.004	1.75
46	MP1B	X	6.573	3.75
47	MP1B	Z	11.384	3.75
48	MP1B	Mx	-.004	3.75
49	MP1C	X	3.383	1.75
50	MP1C	Z	5.86	1.75
51	MP1C	Mx	.005	1.75
52	MP1C	X	3.383	3.75
53	MP1C	Z	5.86	3.75
54	MP1C	Mx	.005	3.75
55	OVP1	X	12.564	1
56	OVP1	Z	21.762	1
57	OVP1	Mx	0	1
58	MP2A	X	6.122	2.5
59	MP2A	Z	10.604	2.5
60	MP2A	Mx	.005	2.5
61	MP2B	X	6.122	2.5
62	MP2B	Z	10.604	2.5
63	MP2B	Mx	.005	2.5
64	MP2C	X	4.678	2.5
65	MP2C	Z	8.103	2.5
66	MP2C	Mx	-.008	2.5
67	MP3A	X	6.036	2.5
68	MP3A	Z	10.454	2.5
69	MP3A	Mx	.005	2.5
70	MP3B	X	6.036	2.5
71	MP3B	Z	10.454	2.5
72	MP3B	Mx	.005	2.5
73	MP3C	X	4.331	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
74	MP3C	Z	7.502	2.5
75	MP3C	Mx	-.007	2.5
76	MP2A	X	3.478	4.35
77	MP2A	Z	6.025	4.35
78	MP2A	Mx	.001	4.35
79	MP2B	X	3.478	4.35
80	MP2B	Z	6.025	4.35
81	MP2B	Mx	.001	4.35
82	MP2C	X	2.29	4.35
83	MP2C	Z	3.966	4.35
84	MP2C	Mx	-.002	4.35
85	MP4A	X	17.167	.5
86	MP4A	Z	29.734	.5
87	MP4A	Mx	-.008	.5
88	MP4A	X	17.167	5
89	MP4A	Z	29.734	5
90	MP4A	Mx	-.008	5
91	MP4B	X	16.469	.5
92	MP4B	Z	28.525	.5
93	MP4B	Mx	-.011	.5
94	MP4B	X	16.469	5
95	MP4B	Z	28.525	5
96	MP4B	Mx	-.011	5
97	MP4C	X	12.533	.5
98	MP4C	Z	21.708	.5
99	MP4C	Mx	.017	.5
100	MP4C	X	12.533	5
101	MP4C	Z	21.708	5
102	MP4C	Mx	.017	5
103	OVP	X	12.564	1
104	OVP	Z	21.762	1
105	OVP	Mx	0	1
106	MP3A	X	1.045	3
107	MP3A	Z	1.811	3
108	MP3A	Mx	.002	3
109	MP3A	X	1.045	5
110	MP3A	Z	1.811	5
111	MP3A	Mx	.002	5
112	MP3B	X	1.045	3
113	MP3B	Z	1.811	3
114	MP3B	Mx	.000442	3
115	MP3B	X	1.045	5
116	MP3B	Z	1.811	5
117	MP3B	Mx	.000442	5
118	MP3A	X	1.045	3
119	MP3A	Z	1.811	3
120	MP3A	Mx	.000441	3
121	MP3A	X	1.045	5
122	MP3A	Z	1.811	5
123	MP3A	Mx	.000441	5
124	MP3B	X	1.045	3
125	MP3B	Z	1.811	3
126	MP3B	Mx	.002	3
127	MP3B	X	1.045	5
128	MP3B	Z	1.811	5
129	MP3B	Mx	.002	5

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	25.409	.5
3	MP2A	Mx	-.017	.5
4	MP2A	X	0	5
5	MP2A	Z	25.409	5
6	MP2A	Mx	-.017	5
7	MP2B	X	0	.5
8	MP2B	Z	19.736	.5
9	MP2B	Mx	-.005	.5
10	MP2B	X	0	5
11	MP2B	Z	19.736	5
12	MP2B	Mx	-.005	5
13	MP2C	X	0	.5
14	MP2C	Z	19.736	.5
15	MP2C	Mx	.018	.5
16	MP2C	X	0	5
17	MP2C	Z	19.736	5
18	MP2C	Mx	.018	5
19	MP2A	X	0	.5
20	MP2A	Z	25.409	.5
21	MP2A	Mx	.017	.5
22	MP2A	X	0	5
23	MP2A	Z	25.409	5
24	MP2A	Mx	.017	5
25	MP2B	X	0	.5
26	MP2B	Z	19.736	.5
27	MP2B	Mx	-.018	.5
28	MP2B	X	0	5
29	MP2B	Z	19.736	5
30	MP2B	Mx	-.018	5
31	MP2C	X	0	.5
32	MP2C	Z	19.736	.5
33	MP2C	Mx	.005	.5
34	MP2C	X	0	5
35	MP2C	Z	19.736	5
36	MP2C	Mx	.005	5
37	MP1A	X	0	1.75
38	MP1A	Z	15.272	1.75
39	MP1A	Mx	0	1.75
40	MP1A	X	0	3.75
41	MP1A	Z	15.272	3.75
42	MP1A	Mx	0	3.75
43	MP1B	X	0	1.75
44	MP1B	Z	8.893	1.75
45	MP1B	Mx	-.005	1.75
46	MP1B	X	0	3.75
47	MP1B	Z	8.893	3.75
48	MP1B	Mx	-.005	3.75
49	MP1C	X	0	1.75
50	MP1C	Z	8.893	1.75
51	MP1C	Mx	.005	1.75
52	MP1C	X	0	3.75
53	MP1C	Z	8.893	3.75
54	MP1C	Mx	.005	3.75
55	OVP1	X	0	1
56	OVP1	Z	26.521	1
57	OVP1	Mx	0	1
58	MP2A	X	0	2.5
59	MP2A	Z	13.208	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
60	MP2A	Mx	0	2.5
61	MP2B	X	0	2.5
62	MP2B	Z	10.319	2.5
63	MP2B	Mx	.007	2.5
64	MP2C	X	0	2.5
65	MP2C	Z	10.319	2.5
66	MP2C	Mx	-.007	2.5
67	MP3A	X	0	2.5
68	MP3A	Z	13.208	2.5
69	MP3A	Mx	0	2.5
70	MP3B	X	0	2.5
71	MP3B	Z	9.799	2.5
72	MP3B	Mx	.007	2.5
73	MP3C	X	0	2.5
74	MP3C	Z	9.799	2.5
75	MP3C	Mx	-.007	2.5
76	MP2A	X	0	4.35
77	MP2A	Z	7.749	4.35
78	MP2A	Mx	0	4.35
79	MP2B	X	0	4.35
80	MP2B	Z	5.372	4.35
81	MP2B	Mx	.002	4.35
82	MP2C	X	0	4.35
83	MP2C	Z	5.372	4.35
84	MP2C	Mx	-.002	4.35
85	MP4A	X	0	.5
86	MP4A	Z	35.245	.5
87	MP4A	Mx	.004	.5
88	MP4A	X	0	5
89	MP4A	Z	35.245	5
90	MP4A	Mx	.004	5
91	MP4B	X	0	.5
92	MP4B	Z	27.69	.5
93	MP4B	Mx	-.016	.5
94	MP4B	X	0	5
95	MP4B	Z	27.69	5
96	MP4B	Mx	-.016	5
97	MP4C	X	0	.5
98	MP4C	Z	27.69	.5
99	MP4C	Mx	.016	.5
100	MP4C	X	0	5
101	MP4C	Z	27.69	5
102	MP4C	Mx	.016	5
103	OVP	X	0	1
104	OVP	Z	26.521	1
105	OVP	Mx	0	1
106	MP3A	X	0	3
107	MP3A	Z	1.542	3
108	MP3A	Mx	.000514	3
109	MP3A	X	0	5
110	MP3A	Z	1.542	5
111	MP3A	Mx	.000514	5
112	MP3B	X	0	3
113	MP3B	Z	3.19	3
114	MP3B	Mx	.002	3
115	MP3B	X	0	5
116	MP3B	Z	3.19	5
117	MP3B	Mx	.002	5
118	MP3A	X	0	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
119	MP3A	Z	1.542	3
120	MP3A	Mx	-.000514	3
121	MP3A	X	0	5
122	MP3A	Z	1.542	5
123	MP3A	Mx	-.000514	5
124	MP3B	X	0	3
125	MP3B	Z	3.19	3
126	MP3B	Mx	.003	3
127	MP3B	X	0	5
128	MP3B	Z	3.19	5
129	MP3B	Mx	.003	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-11.759	.5
2	MP2A	Z	20.367	.5
3	MP2A	Mx	-.006	.5
4	MP2A	X	-11.759	5
5	MP2A	Z	20.367	5
6	MP2A	Mx	-.006	5
7	MP2B	X	-8.923	.5
8	MP2B	Z	15.454	.5
9	MP2B	Mx	-.012	.5
10	MP2B	X	-8.923	5
11	MP2B	Z	15.454	5
12	MP2B	Mx	-.012	5
13	MP2C	X	-11.759	.5
14	MP2C	Z	20.367	.5
15	MP2C	Mx	.021	.5
16	MP2C	X	-11.759	5
17	MP2C	Z	20.367	5
18	MP2C	Mx	.021	5
19	MP2A	X	-11.759	.5
20	MP2A	Z	20.367	.5
21	MP2A	Mx	.021	.5
22	MP2A	X	-11.759	5
23	MP2A	Z	20.367	5
24	MP2A	Mx	.021	5
25	MP2B	X	-8.923	.5
26	MP2B	Z	15.454	.5
27	MP2B	Mx	-.012	.5
28	MP2B	X	-8.923	5
29	MP2B	Z	15.454	5
30	MP2B	Mx	-.012	5
31	MP2C	X	-11.759	.5
32	MP2C	Z	20.367	.5
33	MP2C	Mx	-.006	.5
34	MP2C	X	-11.759	5
35	MP2C	Z	20.367	5
36	MP2C	Mx	-.006	5
37	MP1A	X	-6.573	1.75
38	MP1A	Z	11.384	1.75
39	MP1A	Mx	.004	1.75
40	MP1A	X	-6.573	3.75
41	MP1A	Z	11.384	3.75
42	MP1A	Mx	.004	3.75
43	MP1B	X	-3.383	1.75
44	MP1B	Z	5.86	1.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP1B	Mx	-.005	1.75
46	MP1B	X	-3.383	3.75
47	MP1B	Z	5.86	3.75
48	MP1B	Mx	-.005	3.75
49	MP1C	X	-6.573	1.75
50	MP1C	Z	11.384	1.75
51	MP1C	Mx	.004	1.75
52	MP1C	X	-6.573	3.75
53	MP1C	Z	11.384	3.75
54	MP1C	Mx	.004	3.75
55	OVP1	X	-12.564	1
56	OVP1	Z	21.762	1
57	OVP1	Mx	0	1
58	MP2A	X	-6.122	2.5
59	MP2A	Z	10.604	2.5
60	MP2A	Mx	-.005	2.5
61	MP2B	X	-4.678	2.5
62	MP2B	Z	8.103	2.5
63	MP2B	Mx	.008	2.5
64	MP2C	X	-6.122	2.5
65	MP2C	Z	10.604	2.5
66	MP2C	Mx	-.005	2.5
67	MP3A	X	-6.036	2.5
68	MP3A	Z	10.454	2.5
69	MP3A	Mx	-.005	2.5
70	MP3B	X	-4.331	2.5
71	MP3B	Z	7.502	2.5
72	MP3B	Mx	.007	2.5
73	MP3C	X	-6.036	2.5
74	MP3C	Z	10.454	2.5
75	MP3C	Mx	-.005	2.5
76	MP2A	X	-3.478	4.35
77	MP2A	Z	6.025	4.35
78	MP2A	Mx	-.001	4.35
79	MP2B	X	-2.29	4.35
80	MP2B	Z	3.966	4.35
81	MP2B	Mx	.002	4.35
82	MP2C	X	-3.478	4.35
83	MP2C	Z	6.025	4.35
84	MP2C	Mx	-.001	4.35
85	MP4A	X	-15.613	.5
86	MP4A	Z	27.042	.5
87	MP4A	Mx	.013	.5
88	MP4A	X	-15.613	5
89	MP4A	Z	27.042	5
90	MP4A	Mx	.013	5
91	MP4B	X	-12.533	.5
92	MP4B	Z	21.708	.5
93	MP4B	Mx	-.017	.5
94	MP4B	X	-12.533	5
95	MP4B	Z	21.708	5
96	MP4B	Mx	-.017	5
97	MP4C	X	-16.469	.5
98	MP4C	Z	28.525	.5
99	MP4C	Mx	.011	.5
100	MP4C	X	-16.469	5
101	MP4C	Z	28.525	5
102	MP4C	Mx	.011	5
103	OVP	X	-12.564	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
104	OVP	Z	21.762	1
105	OVP	Mx	0	1
106	MP3A	X	-1.045	3
107	MP3A	Z	1.811	3
108	MP3A	Mx	-.000441	3
109	MP3A	X	-1.045	5
110	MP3A	Z	1.811	5
111	MP3A	Mx	-.000441	5
112	MP3B	X	-1.87	3
113	MP3B	Z	3.238	3
114	MP3B	Mx	.004	3
115	MP3B	X	-1.87	5
116	MP3B	Z	3.238	5
117	MP3B	Mx	.004	5
118	MP3A	X	-1.045	3
119	MP3A	Z	1.811	3
120	MP3A	Mx	-.002	3
121	MP3A	X	-1.045	5
122	MP3A	Z	1.811	5
123	MP3A	Mx	-.002	5
124	MP3B	X	-1.87	3
125	MP3B	Z	3.238	3
126	MP3B	Mx	.004	3
127	MP3B	X	-1.87	5
128	MP3B	Z	3.238	5
129	MP3B	Mx	.004	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-17.092	.5
2	MP2A	Z	9.868	.5
3	MP2A	Mx	.005	.5
4	MP2A	X	-17.092	5
5	MP2A	Z	9.868	5
6	MP2A	Mx	.005	5
7	MP2B	X	-17.092	.5
8	MP2B	Z	9.868	.5
9	MP2B	Mx	-.018	.5
10	MP2B	X	-17.092	5
11	MP2B	Z	9.868	5
12	MP2B	Mx	-.018	5
13	MP2C	X	-22.005	.5
14	MP2C	Z	12.705	.5
15	MP2C	Mx	.017	.5
16	MP2C	X	-22.005	5
17	MP2C	Z	12.705	5
18	MP2C	Mx	.017	5
19	MP2A	X	-17.092	.5
20	MP2A	Z	9.868	.5
21	MP2A	Mx	.018	.5
22	MP2A	X	-17.092	5
23	MP2A	Z	9.868	5
24	MP2A	Mx	.018	5
25	MP2B	X	-17.092	.5
26	MP2B	Z	9.868	.5
27	MP2B	Mx	-.005	.5
28	MP2B	X	-17.092	5
29	MP2B	Z	9.868	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP2B	Mx	-.005	5
31	MP2C	X	-22.005	.5
32	MP2C	Z	12.705	.5
33	MP2C	Mx	-.017	.5
34	MP2C	X	-22.005	5
35	MP2C	Z	12.705	5
36	MP2C	Mx	-.017	5
37	MP1A	X	-7.701	1.75
38	MP1A	Z	4.446	1.75
39	MP1A	Mx	.005	1.75
40	MP1A	X	-7.701	3.75
41	MP1A	Z	4.446	3.75
42	MP1A	Mx	.005	3.75
43	MP1B	X	-7.701	1.75
44	MP1B	Z	4.446	1.75
45	MP1B	Mx	-.005	1.75
46	MP1B	X	-7.701	3.75
47	MP1B	Z	4.446	3.75
48	MP1B	Mx	-.005	3.75
49	MP1C	X	-13.226	1.75
50	MP1C	Z	7.636	1.75
51	MP1C	Mx	0	1.75
52	MP1C	X	-13.226	3.75
53	MP1C	Z	7.636	3.75
54	MP1C	Mx	0	3.75
55	OVP1	X	-19.35	1
56	OVP1	Z	11.172	1
57	OVP1	Mx	0	1
58	MP2A	X	-8.936	2.5
59	MP2A	Z	5.159	2.5
60	MP2A	Mx	-.007	2.5
61	MP2B	X	-8.936	2.5
62	MP2B	Z	5.159	2.5
63	MP2B	Mx	.007	2.5
64	MP2C	X	-11.438	2.5
65	MP2C	Z	6.604	2.5
66	MP2C	Mx	0	2.5
67	MP3A	X	-8.486	2.5
68	MP3A	Z	4.899	2.5
69	MP3A	Mx	-.007	2.5
70	MP3B	X	-8.486	2.5
71	MP3B	Z	4.899	2.5
72	MP3B	Mx	.007	2.5
73	MP3C	X	-11.438	2.5
74	MP3C	Z	6.604	2.5
75	MP3C	Mx	0	2.5
76	MP2A	X	-4.652	4.35
77	MP2A	Z	2.686	4.35
78	MP2A	Mx	-.002	4.35
79	MP2B	X	-4.652	4.35
80	MP2B	Z	2.686	4.35
81	MP2B	Mx	.002	4.35
82	MP2C	X	-6.711	4.35
83	MP2C	Z	3.875	4.35
84	MP2C	Mx	0	4.35
85	MP4A	X	-22.771	.5
86	MP4A	Z	13.147	.5
87	MP4A	Mx	.016	.5
88	MP4A	X	-22.771	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
89	MP4A	Z	13.147	5
90	MP4A	Mx	.016	5
91	MP4B	X	-23.98	.5
92	MP4B	Z	13.845	.5
93	MP4B	Mx	-.016	.5
94	MP4B	X	-23.98	5
95	MP4B	Z	13.845	5
96	MP4B	Mx	-.016	5
97	MP4C	X	-30.797	.5
98	MP4C	Z	17.781	.5
99	MP4C	Mx	0	.5
100	MP4C	X	-30.797	5
101	MP4C	Z	17.781	5
102	MP4C	Mx	0	5
103	OVP	X	-19.35	1
104	OVP	Z	11.172	1
105	OVP	Mx	0	1
106	MP3A	X	-2.762	3
107	MP3A	Z	1.595	3
108	MP3A	Mx	-.002	3
109	MP3A	X	-2.762	5
110	MP3A	Z	1.595	5
111	MP3A	Mx	-.002	5
112	MP3B	X	-2.762	3
113	MP3B	Z	1.595	3
114	MP3B	Mx	.003	3
115	MP3B	X	-2.762	5
116	MP3B	Z	1.595	5
117	MP3B	Mx	.003	5
118	MP3A	X	-2.762	3
119	MP3A	Z	1.595	3
120	MP3A	Mx	-.003	3
121	MP3A	X	-2.762	5
122	MP3A	Z	1.595	5
123	MP3A	Mx	-.003	5
124	MP3B	X	-2.762	3
125	MP3B	Z	1.595	3
126	MP3B	Mx	.002	3
127	MP3B	X	-2.762	5
128	MP3B	Z	1.595	5
129	MP3B	Mx	.002	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-17.845	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	.012	.5
4	MP2A	X	-17.845	5
5	MP2A	Z	0	5
6	MP2A	Mx	.012	5
7	MP2B	X	-23.518	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	-.021	.5
10	MP2B	X	-23.518	5
11	MP2B	Z	0	5
12	MP2B	Mx	-.021	5
13	MP2C	X	-23.518	.5
14	MP2C	Z	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP2C	Mx	.006	.5
16	MP2C	X	-23.518	5
17	MP2C	Z	0	5
18	MP2C	Mx	.006	5
19	MP2A	X	-17.845	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	.012	.5
22	MP2A	X	-17.845	5
23	MP2A	Z	0	5
24	MP2A	Mx	.012	5
25	MP2B	X	-23.518	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	.006	.5
28	MP2B	X	-23.518	5
29	MP2B	Z	0	5
30	MP2B	Mx	.006	5
31	MP2C	X	-23.518	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	-.021	.5
34	MP2C	X	-23.518	5
35	MP2C	Z	0	5
36	MP2C	Mx	-.021	5
37	MP1A	X	-6.766	1.75
38	MP1A	Z	0	1.75
39	MP1A	Mx	.005	1.75
40	MP1A	X	-6.766	3.75
41	MP1A	Z	0	3.75
42	MP1A	Mx	.005	3.75
43	MP1B	X	-13.145	1.75
44	MP1B	Z	0	1.75
45	MP1B	Mx	-.004	1.75
46	MP1B	X	-13.145	3.75
47	MP1B	Z	0	3.75
48	MP1B	Mx	-.004	3.75
49	MP1C	X	-13.145	1.75
50	MP1C	Z	0	1.75
51	MP1C	Mx	-.004	1.75
52	MP1C	X	-13.145	3.75
53	MP1C	Z	0	3.75
54	MP1C	Mx	-.004	3.75
55	OVP1	X	-20.951	1
56	OVP1	Z	0	1
57	OVP1	Mx	0	1
58	MP2A	X	-9.356	2.5
59	MP2A	Z	0	2.5
60	MP2A	Mx	-.008	2.5
61	MP2B	X	-12.245	2.5
62	MP2B	Z	0	2.5
63	MP2B	Mx	.005	2.5
64	MP2C	X	-12.245	2.5
65	MP2C	Z	0	2.5
66	MP2C	Mx	.005	2.5
67	MP3A	X	-8.663	2.5
68	MP3A	Z	0	2.5
69	MP3A	Mx	-.007	2.5
70	MP3B	X	-12.072	2.5
71	MP3B	Z	0	2.5
72	MP3B	Mx	.005	2.5
73	MP3C	X	-12.072	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
74	MP3C	Z	0	2.5
75	MP3C	Mx	.005	2.5
76	MP2A	X	-4.579	4.35
77	MP2A	Z	0	4.35
78	MP2A	Mx	-.002	4.35
79	MP2B	X	-6.957	4.35
80	MP2B	Z	0	4.35
81	MP2B	Mx	.001	4.35
82	MP2C	X	-6.957	4.35
83	MP2C	Z	0	4.35
84	MP2C	Mx	.001	4.35
85	MP4A	X	-25.383	.5
86	MP4A	Z	0	.5
87	MP4A	Mx	.017	.5
88	MP4A	X	-25.383	5
89	MP4A	Z	0	5
90	MP4A	Mx	.017	5
91	MP4B	X	-32.938	.5
92	MP4B	Z	0	.5
93	MP4B	Mx	-.011	.5
94	MP4B	X	-32.938	5
95	MP4B	Z	0	5
96	MP4B	Mx	-.011	5
97	MP4C	X	-32.938	.5
98	MP4C	Z	0	.5
99	MP4C	Mx	-.011	.5
100	MP4C	X	-32.938	5
101	MP4C	Z	0	5
102	MP4C	Mx	-.011	5
103	OVP	X	-20.951	1
104	OVP	Z	0	1
105	OVP	Mx	0	1
106	MP3A	X	-3.739	3
107	MP3A	Z	0	3
108	MP3A	Mx	-.004	3
109	MP3A	X	-3.739	5
110	MP3A	Z	0	5
111	MP3A	Mx	-.004	5
112	MP3B	X	-2.091	3
113	MP3B	Z	0	3
114	MP3B	Mx	.002	3
115	MP3B	X	-2.091	5
116	MP3B	Z	0	5
117	MP3B	Mx	.002	5
118	MP3A	X	-3.739	3
119	MP3A	Z	0	3
120	MP3A	Mx	-.004	3
121	MP3A	X	-3.739	5
122	MP3A	Z	0	5
123	MP3A	Mx	-.004	5
124	MP3B	X	-2.091	3
125	MP3B	Z	0	3
126	MP3B	Mx	.000442	3
127	MP3B	X	-2.091	5
128	MP3B	Z	0	5
129	MP3B	Mx	.000442	5

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-17.092	.5
2	MP2A	Z	-9.868	.5
3	MP2A	Mx	.018	.5
4	MP2A	X	-17.092	5
5	MP2A	Z	-9.868	5
6	MP2A	Mx	.018	5
7	MP2B	X	-22.005	.5
8	MP2B	Z	-12.705	.5
9	MP2B	Mx	-.017	.5
10	MP2B	X	-22.005	5
11	MP2B	Z	-12.705	5
12	MP2B	Mx	-.017	5
13	MP2C	X	-17.092	.5
14	MP2C	Z	-9.868	.5
15	MP2C	Mx	-.005	.5
16	MP2C	X	-17.092	5
17	MP2C	Z	-9.868	5
18	MP2C	Mx	-.005	5
19	MP2A	X	-17.092	.5
20	MP2A	Z	-9.868	.5
21	MP2A	Mx	.005	.5
22	MP2A	X	-17.092	5
23	MP2A	Z	-9.868	5
24	MP2A	Mx	.005	5
25	MP2B	X	-22.005	.5
26	MP2B	Z	-12.705	.5
27	MP2B	Mx	.017	.5
28	MP2B	X	-22.005	5
29	MP2B	Z	-12.705	5
30	MP2B	Mx	.017	5
31	MP2C	X	-17.092	.5
32	MP2C	Z	-9.868	.5
33	MP2C	Mx	-.018	.5
34	MP2C	X	-17.092	5
35	MP2C	Z	-9.868	5
36	MP2C	Mx	-.018	5
37	MP1A	X	-7.701	1.75
38	MP1A	Z	-4.446	1.75
39	MP1A	Mx	.005	1.75
40	MP1A	X	-7.701	3.75
41	MP1A	Z	-4.446	3.75
42	MP1A	Mx	.005	3.75
43	MP1B	X	-13.226	1.75
44	MP1B	Z	-7.636	1.75
45	MP1B	Mx	0	1.75
46	MP1B	X	-13.226	3.75
47	MP1B	Z	-7.636	3.75
48	MP1B	Mx	0	3.75
49	MP1C	X	-7.701	1.75
50	MP1C	Z	-4.446	1.75
51	MP1C	Mx	-.005	1.75
52	MP1C	X	-7.701	3.75
53	MP1C	Z	-4.446	3.75
54	MP1C	Mx	-.005	3.75
55	OVP1	X	-19.35	1
56	OVP1	Z	-11.172	1
57	OVP1	Mx	0	1
58	MP2A	X	-8.936	2.5
59	MP2A	Z	-5.159	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
60	MP2A	Mx	-.007	2.5
61	MP2B	X	-11.438	2.5
62	MP2B	Z	-6.604	2.5
63	MP2B	Mx	0	2.5
64	MP2C	X	-8.936	2.5
65	MP2C	Z	-5.159	2.5
66	MP2C	Mx	.007	2.5
67	MP3A	X	-8.486	2.5
68	MP3A	Z	-4.899	2.5
69	MP3A	Mx	-.007	2.5
70	MP3B	X	-11.438	2.5
71	MP3B	Z	-6.604	2.5
72	MP3B	Mx	0	2.5
73	MP3C	X	-8.486	2.5
74	MP3C	Z	-4.899	2.5
75	MP3C	Mx	.007	2.5
76	MP2A	X	-4.652	4.35
77	MP2A	Z	-2.686	4.35
78	MP2A	Mx	-.002	4.35
79	MP2B	X	-6.711	4.35
80	MP2B	Z	-3.875	4.35
81	MP2B	Mx	0	4.35
82	MP2C	X	-4.652	4.35
83	MP2C	Z	-2.686	4.35
84	MP2C	Mx	.002	4.35
85	MP4A	X	-25.464	.5
86	MP4A	Z	-14.701	.5
87	MP4A	Mx	.015	.5
88	MP4A	X	-25.464	5
89	MP4A	Z	-14.701	5
90	MP4A	Mx	.015	5
91	MP4B	X	-30.797	.5
92	MP4B	Z	-17.781	.5
93	MP4B	Mx	0	.5
94	MP4B	X	-30.797	5
95	MP4B	Z	-17.781	5
96	MP4B	Mx	0	5
97	MP4C	X	-23.98	.5
98	MP4C	Z	-13.845	.5
99	MP4C	Mx	-.016	.5
100	MP4C	X	-23.98	5
101	MP4C	Z	-13.845	5
102	MP4C	Mx	-.016	5
103	OVP	X	-19.35	1
104	OVP	Z	-11.172	1
105	OVP	Mx	0	1
106	MP3A	X	-2.762	3
107	MP3A	Z	-1.595	3
108	MP3A	Mx	-.003	3
109	MP3A	X	-2.762	5
110	MP3A	Z	-1.595	5
111	MP3A	Mx	-.003	5
112	MP3B	X	-1.335	3
113	MP3B	Z	-.771	3
114	MP3B	Mx	.000514	3
115	MP3B	X	-1.335	5
116	MP3B	Z	-.771	5
117	MP3B	Mx	.000514	5
118	MP3A	X	-2.762	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
119	MP3A	Z	-1.595	3
120	MP3A	Mx	-.002	3
121	MP3A	X	-2.762	5
122	MP3A	Z	-1.595	5
123	MP3A	Mx	-.002	5
124	MP3B	X	-1.335	3
125	MP3B	Z	-.771	3
126	MP3B	Mx	-.000514	3
127	MP3B	X	-1.335	5
128	MP3B	Z	-.771	5
129	MP3B	Mx	-.000514	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-11.759	.5
2	MP2A	Z	-20.367	.5
3	MP2A	Mx	.021	.5
4	MP2A	X	-11.759	5
5	MP2A	Z	-20.367	5
6	MP2A	Mx	.021	5
7	MP2B	X	-11.759	.5
8	MP2B	Z	-20.367	.5
9	MP2B	Mx	-.006	.5
10	MP2B	X	-11.759	5
11	MP2B	Z	-20.367	5
12	MP2B	Mx	-.006	5
13	MP2C	X	-8.923	.5
14	MP2C	Z	-15.454	.5
15	MP2C	Mx	-.012	.5
16	MP2C	X	-8.923	5
17	MP2C	Z	-15.454	5
18	MP2C	Mx	-.012	5
19	MP2A	X	-11.759	.5
20	MP2A	Z	-20.367	.5
21	MP2A	Mx	-.006	.5
22	MP2A	X	-11.759	5
23	MP2A	Z	-20.367	5
24	MP2A	Mx	-.006	5
25	MP2B	X	-11.759	.5
26	MP2B	Z	-20.367	.5
27	MP2B	Mx	.021	.5
28	MP2B	X	-11.759	5
29	MP2B	Z	-20.367	5
30	MP2B	Mx	.021	5
31	MP2C	X	-8.923	.5
32	MP2C	Z	-15.454	.5
33	MP2C	Mx	-.012	.5
34	MP2C	X	-8.923	5
35	MP2C	Z	-15.454	5
36	MP2C	Mx	-.012	5
37	MP1A	X	-6.573	1.75
38	MP1A	Z	-11.384	1.75
39	MP1A	Mx	.004	1.75
40	MP1A	X	-6.573	3.75
41	MP1A	Z	-11.384	3.75
42	MP1A	Mx	.004	3.75
43	MP1B	X	-6.573	1.75
44	MP1B	Z	-11.384	1.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP1B	Mx	.004	1.75
46	MP1B	X	-6.573	3.75
47	MP1B	Z	-11.384	3.75
48	MP1B	Mx	.004	3.75
49	MP1C	X	-3.383	1.75
50	MP1C	Z	-5.86	1.75
51	MP1C	Mx	-.005	1.75
52	MP1C	X	-3.383	3.75
53	MP1C	Z	-5.86	3.75
54	MP1C	Mx	-.005	3.75
55	OVP1	X	-12.564	1
56	OVP1	Z	-21.762	1
57	OVP1	Mx	0	1
58	MP2A	X	-6.122	2.5
59	MP2A	Z	-10.604	2.5
60	MP2A	Mx	-.005	2.5
61	MP2B	X	-6.122	2.5
62	MP2B	Z	-10.604	2.5
63	MP2B	Mx	-.005	2.5
64	MP2C	X	-4.678	2.5
65	MP2C	Z	-8.103	2.5
66	MP2C	Mx	.008	2.5
67	MP3A	X	-6.036	2.5
68	MP3A	Z	-10.454	2.5
69	MP3A	Mx	-.005	2.5
70	MP3B	X	-6.036	2.5
71	MP3B	Z	-10.454	2.5
72	MP3B	Mx	-.005	2.5
73	MP3C	X	-4.331	2.5
74	MP3C	Z	-7.502	2.5
75	MP3C	Mx	.007	2.5
76	MP2A	X	-3.478	4.35
77	MP2A	Z	-6.025	4.35
78	MP2A	Mx	-.001	4.35
79	MP2B	X	-3.478	4.35
80	MP2B	Z	-6.025	4.35
81	MP2B	Mx	-.001	4.35
82	MP2C	X	-2.29	4.35
83	MP2C	Z	-3.966	4.35
84	MP2C	Mx	.002	4.35
85	MP4A	X	-17.167	.5
86	MP4A	Z	-29.734	.5
87	MP4A	Mx	.008	.5
88	MP4A	X	-17.167	5
89	MP4A	Z	-29.734	5
90	MP4A	Mx	.008	5
91	MP4B	X	-16.469	.5
92	MP4B	Z	-28.525	.5
93	MP4B	Mx	.011	.5
94	MP4B	X	-16.469	5
95	MP4B	Z	-28.525	5
96	MP4B	Mx	.011	5
97	MP4C	X	-12.533	.5
98	MP4C	Z	-21.708	.5
99	MP4C	Mx	-.017	.5
100	MP4C	X	-12.533	5
101	MP4C	Z	-21.708	5
102	MP4C	Mx	-.017	5
103	OVP	X	-12.564	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
104	OVP	Z	-21.762	1
105	OVP	Mx	0	1
106	MP3A	X	-1.045	3
107	MP3A	Z	-1.811	3
108	MP3A	Mx	-.002	3
109	MP3A	X	-1.045	5
110	MP3A	Z	-1.811	5
111	MP3A	Mx	-.002	5
112	MP3B	X	-1.045	3
113	MP3B	Z	-1.811	3
114	MP3B	Mx	-.000442	3
115	MP3B	X	-1.045	5
116	MP3B	Z	-1.811	5
117	MP3B	Mx	-.000442	5
118	MP3A	X	-1.045	3
119	MP3A	Z	-1.811	3
120	MP3A	Mx	-.000441	3
121	MP3A	X	-1.045	5
122	MP3A	Z	-1.811	5
123	MP3A	Mx	-.000441	5
124	MP3B	X	-1.045	3
125	MP3B	Z	-1.811	3
126	MP3B	Mx	-.002	3
127	MP3B	X	-1.045	5
128	MP3B	Z	-1.811	5
129	MP3B	Mx	-.002	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	-5.322	.5
3	MP2A	Mx	.004	.5
4	MP2A	X	0	5
5	MP2A	Z	-5.322	5
6	MP2A	Mx	.004	5
7	MP2B	X	0	.5
8	MP2B	Z	-3.043	.5
9	MP2B	Mx	.000743	.5
10	MP2B	X	0	5
11	MP2B	Z	-3.043	5
12	MP2B	Mx	.000743	5
13	MP2C	X	0	.5
14	MP2C	Z	-3.043	.5
15	MP2C	Mx	-.003	.5
16	MP2C	X	0	5
17	MP2C	Z	-3.043	5
18	MP2C	Mx	-.003	5
19	MP2A	X	0	.5
20	MP2A	Z	-7.889	.5
21	MP2A	Mx	-.005	.5
22	MP2A	X	0	5
23	MP2A	Z	-7.889	5
24	MP2A	Mx	-.005	5
25	MP2B	X	0	.5
26	MP2B	Z	-5.899	.5
27	MP2B	Mx	.005	.5
28	MP2B	X	0	5
29	MP2B	Z	-5.899	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP2B	Mx	.005	5
31	MP2C	X	0	.5
32	MP2C	Z	-5.899	.5
33	MP2C	Mx	-.001	.5
34	MP2C	X	0	5
35	MP2C	Z	-5.899	5
36	MP2C	Mx	-.001	5
37	MP1A	X	0	1.75
38	MP1A	Z	-3.842	1.75
39	MP1A	Mx	0	1.75
40	MP1A	X	0	3.75
41	MP1A	Z	-3.842	3.75
42	MP1A	Mx	0	3.75
43	MP1B	X	0	1.75
44	MP1B	Z	-1.953	1.75
45	MP1B	Mx	.001	1.75
46	MP1B	X	0	3.75
47	MP1B	Z	-1.953	3.75
48	MP1B	Mx	.001	3.75
49	MP1C	X	0	1.75
50	MP1C	Z	-1.953	1.75
51	MP1C	Mx	-.001	1.75
52	MP1C	X	0	3.75
53	MP1C	Z	-1.953	3.75
54	MP1C	Mx	-.001	3.75
55	OVP1	X	0	1
56	OVP1	Z	-6.214	1
57	OVP1	Mx	0	1
58	MP2A	X	0	2.5
59	MP2A	Z	-3.038	2.5
60	MP2A	Mx	0	2.5
61	MP2B	X	0	2.5
62	MP2B	Z	-2.288	2.5
63	MP2B	Mx	-.002	2.5
64	MP2C	X	0	2.5
65	MP2C	Z	-2.288	2.5
66	MP2C	Mx	.002	2.5
67	MP3A	X	0	2.5
68	MP3A	Z	-3.038	2.5
69	MP3A	Mx	0	2.5
70	MP3B	X	0	2.5
71	MP3B	Z	-2.141	2.5
72	MP3B	Mx	-.002	2.5
73	MP3C	X	0	2.5
74	MP3C	Z	-2.141	2.5
75	MP3C	Mx	.002	2.5
76	MP2A	X	0	4.35
77	MP2A	Z	-1.411	4.35
78	MP2A	Mx	0	4.35
79	MP2B	X	0	4.35
80	MP2B	Z	-.853	4.35
81	MP2B	Mx	-.000308	4.35
82	MP2C	X	0	4.35
83	MP2C	Z	-.853	4.35
84	MP2C	Mx	.000308	4.35
85	MP4A	X	0	.5
86	MP4A	Z	-11.13	.5
87	MP4A	Mx	-.001	.5
88	MP4A	X	0	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
89	MP4A	Z	-11.13	5
90	MP4A	Mx	-.001	5
91	MP4B	X	0	.5
92	MP4B	Z	-8.467	.5
93	MP4B	Mx	.005	.5
94	MP4B	X	0	5
95	MP4B	Z	-8.467	5
96	MP4B	Mx	.005	5
97	MP4C	X	0	.5
98	MP4C	Z	-8.467	.5
99	MP4C	Mx	-.005	.5
100	MP4C	X	0	5
101	MP4C	Z	-8.467	5
102	MP4C	Mx	-.005	5
103	OVP	X	0	1
104	OVP	Z	-6.214	1
105	OVP	Mx	0	1
106	MP3A	X	0	3
107	MP3A	Z	-.941	3
108	MP3A	Mx	-.000314	3
109	MP3A	X	0	5
110	MP3A	Z	-.941	5
111	MP3A	Mx	-.000314	5
112	MP3B	X	0	3
113	MP3B	Z	-.943	3
114	MP3B	Mx	-.000659	3
115	MP3B	X	0	5
116	MP3B	Z	-.943	5
117	MP3B	Mx	-.000659	5
118	MP3A	X	0	3
119	MP3A	Z	-.941	3
120	MP3A	Mx	.000314	3
121	MP3A	X	0	5
122	MP3A	Z	-.941	5
123	MP3A	Mx	.000314	5
124	MP3B	X	0	3
125	MP3B	Z	-.943	3
126	MP3B	Mx	-.000974	3
127	MP3B	X	0	5
128	MP3B	Z	-.943	5
129	MP3B	Mx	-.000974	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	2.281	.5
2	MP2A	Z	-3.951	.5
3	MP2A	Mx	.001	.5
4	MP2A	X	2.281	5
5	MP2A	Z	-3.951	5
6	MP2A	Mx	.001	5
7	MP2B	X	1.142	.5
8	MP2B	Z	-1.978	.5
9	MP2B	Mx	.002	.5
10	MP2B	X	1.142	5
11	MP2B	Z	-1.978	5
12	MP2B	Mx	.002	5
13	MP2C	X	2.281	.5
14	MP2C	Z	-3.951	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP2C	Mx	-.004	.5
16	MP2C	X	2.281	5
17	MP2C	Z	-3.951	5
18	MP2C	Mx	-.004	5
19	MP2A	X	3.613	.5
20	MP2A	Z	-6.258	.5
21	MP2A	Mx	-.007	.5
22	MP2A	X	3.613	5
23	MP2A	Z	-6.258	5
24	MP2A	Mx	-.007	5
25	MP2B	X	2.618	.5
26	MP2B	Z	-4.534	.5
27	MP2B	Mx	.003	.5
28	MP2B	X	2.618	5
29	MP2B	Z	-4.534	5
30	MP2B	Mx	.003	5
31	MP2C	X	3.613	.5
32	MP2C	Z	-6.258	.5
33	MP2C	Mx	.002	.5
34	MP2C	X	3.613	5
35	MP2C	Z	-6.258	5
36	MP2C	Mx	.002	5
37	MP1A	X	1.606	1.75
38	MP1A	Z	-2.782	1.75
39	MP1A	Mx	-.001	1.75
40	MP1A	X	1.606	3.75
41	MP1A	Z	-2.782	3.75
42	MP1A	Mx	-.001	3.75
43	MP1B	X	.662	1.75
44	MP1B	Z	-1.146	1.75
45	MP1B	Mx	.000882	1.75
46	MP1B	X	.662	3.75
47	MP1B	Z	-1.146	3.75
48	MP1B	Mx	.000882	3.75
49	MP1C	X	1.606	1.75
50	MP1C	Z	-2.782	1.75
51	MP1C	Mx	-.001	1.75
52	MP1C	X	1.606	3.75
53	MP1C	Z	-2.782	3.75
54	MP1C	Mx	-.001	3.75
55	OVP1	X	2.921	1
56	OVP1	Z	-5.059	1
57	OVP1	Mx	0	1
58	MP2A	X	1.394	2.5
59	MP2A	Z	-2.415	2.5
60	MP2A	Mx	.001	2.5
61	MP2B	X	1.019	2.5
62	MP2B	Z	-1.765	2.5
63	MP2B	Mx	-.002	2.5
64	MP2C	X	1.394	2.5
65	MP2C	Z	-2.415	2.5
66	MP2C	Mx	.001	2.5
67	MP3A	X	1.37	2.5
68	MP3A	Z	-2.372	2.5
69	MP3A	Mx	.001	2.5
70	MP3B	X	.921	2.5
71	MP3B	Z	-1.596	2.5
72	MP3B	Mx	-.002	2.5
73	MP3C	X	1.37	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
74	MP3C	Z	-2.372	2.5
75	MP3C	Mx	.001	2.5
76	MP2A	X	.613	4.35
77	MP2A	Z	-1.061	4.35
78	MP2A	Mx	.000255	4.35
79	MP2B	X	.333	4.35
80	MP2B	Z	-.577	4.35
81	MP2B	Mx	-.000278	4.35
82	MP2C	X	.613	4.35
83	MP2C	Z	-1.061	4.35
84	MP2C	Mx	.000255	4.35
85	MP4A	X	4.857	.5
86	MP4A	Z	-8.412	.5
87	MP4A	Mx	-.004	.5
88	MP4A	X	4.857	5
89	MP4A	Z	-8.412	5
90	MP4A	Mx	-.004	5
91	MP4B	X	3.771	.5
92	MP4B	Z	-6.532	.5
93	MP4B	Mx	.005	.5
94	MP4B	X	3.771	5
95	MP4B	Z	-6.532	5
96	MP4B	Mx	.005	5
97	MP4C	X	5.158	.5
98	MP4C	Z	-8.934	.5
99	MP4C	Mx	-.003	.5
100	MP4C	X	5.158	5
101	MP4C	Z	-8.934	5
102	MP4C	Mx	-.003	5
103	OVP	X	2.921	1
104	OVP	Z	-5.059	1
105	OVP	Mx	0	1
106	MP3A	X	.471	3
107	MP3A	Z	-.815	3
108	MP3A	Mx	.000199	3
109	MP3A	X	.471	5
110	MP3A	Z	-.815	5
111	MP3A	Mx	.000199	5
112	MP3B	X	.472	3
113	MP3B	Z	-.817	3
114	MP3B	Mx	-.000944	3
115	MP3B	X	.472	5
116	MP3B	Z	-.817	5
117	MP3B	Mx	-.000944	5
118	MP3A	X	.471	3
119	MP3A	Z	-.815	3
120	MP3A	Mx	.000743	3
121	MP3A	X	.471	5
122	MP3A	Z	-.815	5
123	MP3A	Mx	.000743	5
124	MP3B	X	.472	3
125	MP3B	Z	-.817	3
126	MP3B	Mx	-.000943	3
127	MP3B	X	.472	5
128	MP3B	Z	-.817	5
129	MP3B	Mx	-.000943	5

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	2.635	.5
2	MP2A	Z	-1.522	.5
3	MP2A	Mx	-.000742	.5
4	MP2A	X	2.635	5
5	MP2A	Z	-1.522	5
6	MP2A	Mx	-.000742	5
7	MP2B	X	2.635	.5
8	MP2B	Z	-1.522	.5
9	MP2B	Mx	.003	.5
10	MP2B	X	2.635	5
11	MP2B	Z	-1.522	5
12	MP2B	Mx	.003	5
13	MP2C	X	4.609	.5
14	MP2C	Z	-2.661	.5
15	MP2C	Mx	-.004	.5
16	MP2C	X	4.609	5
17	MP2C	Z	-2.661	5
18	MP2C	Mx	-.004	5
19	MP2A	X	5.108	.5
20	MP2A	Z	-2.949	.5
21	MP2A	Mx	-.005	.5
22	MP2A	X	5.108	5
23	MP2A	Z	-2.949	5
24	MP2A	Mx	-.005	5
25	MP2B	X	5.108	.5
26	MP2B	Z	-2.949	.5
27	MP2B	Mx	.001	.5
28	MP2B	X	5.108	5
29	MP2B	Z	-2.949	5
30	MP2B	Mx	.001	5
31	MP2C	X	6.832	.5
32	MP2C	Z	-3.945	.5
33	MP2C	Mx	.005	.5
34	MP2C	X	6.832	5
35	MP2C	Z	-3.945	5
36	MP2C	Mx	.005	5
37	MP1A	X	1.691	1.75
38	MP1A	Z	-.976	1.75
39	MP1A	Mx	-.001	1.75
40	MP1A	X	1.691	3.75
41	MP1A	Z	-.976	3.75
42	MP1A	Mx	-.001	3.75
43	MP1B	X	1.691	1.75
44	MP1B	Z	-.976	1.75
45	MP1B	Mx	.001	1.75
46	MP1B	X	1.691	3.75
47	MP1B	Z	-.976	3.75
48	MP1B	Mx	.001	3.75
49	MP1C	X	3.327	1.75
50	MP1C	Z	-1.921	1.75
51	MP1C	Mx	0	1.75
52	MP1C	X	3.327	3.75
53	MP1C	Z	-1.921	3.75
54	MP1C	Mx	0	3.75
55	OVP1	X	4.413	1
56	OVP1	Z	-2.548	1
57	OVP1	Mx	0	1
58	MP2A	X	1.982	2.5
59	MP2A	Z	-1.144	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
60	MP2A	Mx	.002	2.5
61	MP2B	X	1.982	2.5
62	MP2B	Z	-1.144	2.5
63	MP2B	Mx	-.002	2.5
64	MP2C	X	2.631	2.5
65	MP2C	Z	-1.519	2.5
66	MP2C	Mx	0	2.5
67	MP3A	X	1.855	2.5
68	MP3A	Z	-1.071	2.5
69	MP3A	Mx	.002	2.5
70	MP3B	X	1.855	2.5
71	MP3B	Z	-1.071	2.5
72	MP3B	Mx	-.002	2.5
73	MP3C	X	2.631	2.5
74	MP3C	Z	-1.519	2.5
75	MP3C	Mx	0	2.5
76	MP2A	X	.738	4.35
77	MP2A	Z	-.426	4.35
78	MP2A	Mx	.000308	4.35
79	MP2B	X	.738	4.35
80	MP2B	Z	-.426	4.35
81	MP2B	Mx	-.000307	4.35
82	MP2C	X	1.222	4.35
83	MP2C	Z	-.706	4.35
84	MP2C	Mx	0	4.35
85	MP4A	X	6.907	.5
86	MP4A	Z	-3.988	.5
87	MP4A	Mx	-.005	.5
88	MP4A	X	6.907	5
89	MP4A	Z	-3.988	5
90	MP4A	Mx	-.005	5
91	MP4B	X	7.333	.5
92	MP4B	Z	-4.234	.5
93	MP4B	Mx	.005	.5
94	MP4B	X	7.333	5
95	MP4B	Z	-4.234	5
96	MP4B	Mx	.005	5
97	MP4C	X	9.735	.5
98	MP4C	Z	-5.621	.5
99	MP4C	Mx	0	.5
100	MP4C	X	9.735	5
101	MP4C	Z	-5.621	5
102	MP4C	Mx	0	5
103	OVP	X	4.413	1
104	OVP	Z	-2.548	1
105	OVP	Mx	0	1
106	MP3A	X	.817	3
107	MP3A	Z	-.471	3
108	MP3A	Mx	.00066	3
109	MP3A	X	.817	5
110	MP3A	Z	-.471	5
111	MP3A	Mx	.00066	5
112	MP3B	X	.817	3
113	MP3B	Z	-.471	3
114	MP3B	Mx	-.000974	3
115	MP3B	X	.817	5
116	MP3B	Z	-.471	5
117	MP3B	Mx	-.000974	5
118	MP3A	X	.817	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
119	MP3A	Z	-.471	3
120	MP3A	Mx	.000974	3
121	MP3A	X	.817	5
122	MP3A	Z	-.471	5
123	MP3A	Mx	.000974	5
124	MP3B	X	.817	3
125	MP3B	Z	-.471	3
126	MP3B	Mx	-.000659	3
127	MP3B	X	.817	5
128	MP3B	Z	-.471	5
129	MP3B	Mx	-.000659	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	2.284	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	-.002	.5
4	MP2A	X	2.284	5
5	MP2A	Z	0	5
6	MP2A	Mx	-.002	5
7	MP2B	X	4.562	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	.004	.5
10	MP2B	X	4.562	5
11	MP2B	Z	0	5
12	MP2B	Mx	.004	5
13	MP2C	X	4.562	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	-.001	.5
16	MP2C	X	4.562	5
17	MP2C	Z	0	5
18	MP2C	Mx	-.001	5
19	MP2A	X	5.235	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	-.003	.5
22	MP2A	X	5.235	5
23	MP2A	Z	0	5
24	MP2A	Mx	-.003	5
25	MP2B	X	7.226	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	-.002	.5
28	MP2B	X	7.226	5
29	MP2B	Z	0	5
30	MP2B	Mx	-.002	5
31	MP2C	X	7.226	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	.007	.5
34	MP2C	X	7.226	5
35	MP2C	Z	0	5
36	MP2C	Mx	.007	5
37	MP1A	X	1.323	1.75
38	MP1A	Z	0	1.75
39	MP1A	Mx	-.000882	1.75
40	MP1A	X	1.323	3.75
41	MP1A	Z	0	3.75
42	MP1A	Mx	-.000882	3.75
43	MP1B	X	3.212	1.75
44	MP1B	Z	0	1.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP1B	Mx	.001	1.75
46	MP1B	X	3.212	3.75
47	MP1B	Z	0	3.75
48	MP1B	Mx	.001	3.75
49	MP1C	X	3.212	1.75
50	MP1C	Z	0	1.75
51	MP1C	Mx	.001	1.75
52	MP1C	X	3.212	3.75
53	MP1C	Z	0	3.75
54	MP1C	Mx	.001	3.75
55	OVP1	X	4.724	1
56	OVP1	Z	0	1
57	OVP1	Mx	0	1
58	MP2A	X	2.039	2.5
59	MP2A	Z	0	2.5
60	MP2A	Mx	.002	2.5
61	MP2B	X	2.788	2.5
62	MP2B	Z	0	2.5
63	MP2B	Mx	-.001	2.5
64	MP2C	X	2.788	2.5
65	MP2C	Z	0	2.5
66	MP2C	Mx	-.001	2.5
67	MP3A	X	1.842	2.5
68	MP3A	Z	0	2.5
69	MP3A	Mx	.002	2.5
70	MP3B	X	2.739	2.5
71	MP3B	Z	0	2.5
72	MP3B	Mx	-.001	2.5
73	MP3C	X	2.739	2.5
74	MP3C	Z	0	2.5
75	MP3C	Mx	-.001	2.5
76	MP2A	X	.666	4.35
77	MP2A	Z	0	4.35
78	MP2A	Mx	.000278	4.35
79	MP2B	X	1.225	4.35
80	MP2B	Z	0	4.35
81	MP2B	Mx	-.000255	4.35
82	MP2C	X	1.225	4.35
83	MP2C	Z	0	4.35
84	MP2C	Mx	-.000255	4.35
85	MP4A	X	7.654	.5
86	MP4A	Z	0	.5
87	MP4A	Mx	-.005	.5
88	MP4A	X	7.654	5
89	MP4A	Z	0	5
90	MP4A	Mx	-.005	5
91	MP4B	X	10.317	.5
92	MP4B	Z	0	.5
93	MP4B	Mx	.003	.5
94	MP4B	X	10.317	5
95	MP4B	Z	0	5
96	MP4B	Mx	.003	5
97	MP4C	X	10.317	.5
98	MP4C	Z	0	.5
99	MP4C	Mx	.003	.5
100	MP4C	X	10.317	5
101	MP4C	Z	0	5
102	MP4C	Mx	.003	5
103	OVP	X	4.724	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
104	OVP	Z	0	1
105	OVP	Mx	0	1
106	MP3A	X	.944	3
107	MP3A	Z	0	3
108	MP3A	Mx	.000944	3
109	MP3A	X	.944	5
110	MP3A	Z	0	5
111	MP3A	Mx	.000944	5
112	MP3B	X	.942	3
113	MP3B	Z	0	3
114	MP3B	Mx	-.000743	3
115	MP3B	X	.942	5
116	MP3B	Z	0	5
117	MP3B	Mx	-.000743	5
118	MP3A	X	.944	3
119	MP3A	Z	0	3
120	MP3A	Mx	.000944	3
121	MP3A	X	.944	5
122	MP3A	Z	0	5
123	MP3A	Mx	.000944	5
124	MP3B	X	.942	3
125	MP3B	Z	0	3
126	MP3B	Mx	-.000199	3
127	MP3B	X	.942	5
128	MP3B	Z	0	5
129	MP3B	Mx	-.000199	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	2.635	.5
2	MP2A	Z	1.522	.5
3	MP2A	Mx	-.003	.5
4	MP2A	X	2.635	5
5	MP2A	Z	1.522	5
6	MP2A	Mx	-.003	5
7	MP2B	X	4.609	.5
8	MP2B	Z	2.661	.5
9	MP2B	Mx	.004	.5
10	MP2B	X	4.609	5
11	MP2B	Z	2.661	5
12	MP2B	Mx	.004	5
13	MP2C	X	2.635	.5
14	MP2C	Z	1.522	.5
15	MP2C	Mx	.000743	.5
16	MP2C	X	2.635	5
17	MP2C	Z	1.522	5
18	MP2C	Mx	.000743	5
19	MP2A	X	5.108	.5
20	MP2A	Z	2.949	.5
21	MP2A	Mx	-.001	.5
22	MP2A	X	5.108	5
23	MP2A	Z	2.949	5
24	MP2A	Mx	-.001	5
25	MP2B	X	6.832	.5
26	MP2B	Z	3.945	.5
27	MP2B	Mx	-.005	.5
28	MP2B	X	6.832	5
29	MP2B	Z	3.945	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP2B	Mx	-.005	5
31	MP2C	X	5.108	.5
32	MP2C	Z	2.949	.5
33	MP2C	Mx	.005	.5
34	MP2C	X	5.108	5
35	MP2C	Z	2.949	5
36	MP2C	Mx	.005	5
37	MP1A	X	1.691	1.75
38	MP1A	Z	.976	1.75
39	MP1A	Mx	-.001	1.75
40	MP1A	X	1.691	3.75
41	MP1A	Z	.976	3.75
42	MP1A	Mx	-.001	3.75
43	MP1B	X	3.327	1.75
44	MP1B	Z	1.921	1.75
45	MP1B	Mx	0	1.75
46	MP1B	X	3.327	3.75
47	MP1B	Z	1.921	3.75
48	MP1B	Mx	0	3.75
49	MP1C	X	1.691	1.75
50	MP1C	Z	.976	1.75
51	MP1C	Mx	.001	1.75
52	MP1C	X	1.691	3.75
53	MP1C	Z	.976	3.75
54	MP1C	Mx	.001	3.75
55	OVP1	X	4.413	1
56	OVP1	Z	2.548	1
57	OVP1	Mx	0	1
58	MP2A	X	1.982	2.5
59	MP2A	Z	1.144	2.5
60	MP2A	Mx	.002	2.5
61	MP2B	X	2.631	2.5
62	MP2B	Z	1.519	2.5
63	MP2B	Mx	0	2.5
64	MP2C	X	1.982	2.5
65	MP2C	Z	1.144	2.5
66	MP2C	Mx	-.002	2.5
67	MP3A	X	1.855	2.5
68	MP3A	Z	1.071	2.5
69	MP3A	Mx	.002	2.5
70	MP3B	X	2.631	2.5
71	MP3B	Z	1.519	2.5
72	MP3B	Mx	0	2.5
73	MP3C	X	1.855	2.5
74	MP3C	Z	1.071	2.5
75	MP3C	Mx	-.002	2.5
76	MP2A	X	.738	4.35
77	MP2A	Z	.426	4.35
78	MP2A	Mx	.000308	4.35
79	MP2B	X	1.222	4.35
80	MP2B	Z	.706	4.35
81	MP2B	Mx	0	4.35
82	MP2C	X	.738	4.35
83	MP2C	Z	.426	4.35
84	MP2C	Mx	-.000307	4.35
85	MP4A	X	7.856	.5
86	MP4A	Z	4.535	.5
87	MP4A	Mx	-.005	.5
88	MP4A	X	7.856	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
89	MP4A	Z	4.535	5
90	MP4A	Mx	-.005	5
91	MP4B	X	9.735	.5
92	MP4B	Z	5.621	.5
93	MP4B	Mx	0	.5
94	MP4B	X	9.735	5
95	MP4B	Z	5.621	5
96	MP4B	Mx	0	5
97	MP4C	X	7.333	.5
98	MP4C	Z	4.234	.5
99	MP4C	Mx	.005	.5
100	MP4C	X	7.333	5
101	MP4C	Z	4.234	5
102	MP4C	Mx	.005	5
103	OVP	X	4.413	1
104	OVP	Z	2.548	1
105	OVP	Mx	0	1
106	MP3A	X	.817	3
107	MP3A	Z	.471	3
108	MP3A	Mx	.000974	3
109	MP3A	X	.817	5
110	MP3A	Z	.471	5
111	MP3A	Mx	.000974	5
112	MP3B	X	.815	3
113	MP3B	Z	.47	3
114	MP3B	Mx	-.000314	3
115	MP3B	X	.815	5
116	MP3B	Z	.47	5
117	MP3B	Mx	-.000314	5
118	MP3A	X	.817	3
119	MP3A	Z	.471	3
120	MP3A	Mx	.00066	3
121	MP3A	X	.817	5
122	MP3A	Z	.471	5
123	MP3A	Mx	.00066	5
124	MP3B	X	.815	3
125	MP3B	Z	.47	3
126	MP3B	Mx	.000313	3
127	MP3B	X	.815	5
128	MP3B	Z	.47	5
129	MP3B	Mx	.000313	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	2.281	.5
2	MP2A	Z	3.951	.5
3	MP2A	Mx	-.004	.5
4	MP2A	X	2.281	5
5	MP2A	Z	3.951	5
6	MP2A	Mx	-.004	5
7	MP2B	X	2.281	.5
8	MP2B	Z	3.951	.5
9	MP2B	Mx	.001	.5
10	MP2B	X	2.281	5
11	MP2B	Z	3.951	5
12	MP2B	Mx	.001	5
13	MP2C	X	1.142	.5
14	MP2C	Z	1.978	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP2C	Mx	.002	.5
16	MP2C	X	1.142	5
17	MP2C	Z	1.978	5
18	MP2C	Mx	.002	5
19	MP2A	X	3.613	.5
20	MP2A	Z	6.258	.5
21	MP2A	Mx	.002	.5
22	MP2A	X	3.613	5
23	MP2A	Z	6.258	5
24	MP2A	Mx	.002	5
25	MP2B	X	3.613	.5
26	MP2B	Z	6.258	.5
27	MP2B	Mx	-.007	.5
28	MP2B	X	3.613	5
29	MP2B	Z	6.258	5
30	MP2B	Mx	-.007	5
31	MP2C	X	2.618	.5
32	MP2C	Z	4.534	.5
33	MP2C	Mx	.003	.5
34	MP2C	X	2.618	5
35	MP2C	Z	4.534	5
36	MP2C	Mx	.003	5
37	MP1A	X	1.606	1.75
38	MP1A	Z	2.782	1.75
39	MP1A	Mx	-.001	1.75
40	MP1A	X	1.606	3.75
41	MP1A	Z	2.782	3.75
42	MP1A	Mx	-.001	3.75
43	MP1B	X	1.606	1.75
44	MP1B	Z	2.782	1.75
45	MP1B	Mx	-.001	1.75
46	MP1B	X	1.606	3.75
47	MP1B	Z	2.782	3.75
48	MP1B	Mx	-.001	3.75
49	MP1C	X	.662	1.75
50	MP1C	Z	1.146	1.75
51	MP1C	Mx	.000882	1.75
52	MP1C	X	.662	3.75
53	MP1C	Z	1.146	3.75
54	MP1C	Mx	.000882	3.75
55	OVP1	X	2.921	1
56	OVP1	Z	5.059	1
57	OVP1	Mx	0	1
58	MP2A	X	1.394	2.5
59	MP2A	Z	2.415	2.5
60	MP2A	Mx	.001	2.5
61	MP2B	X	1.394	2.5
62	MP2B	Z	2.415	2.5
63	MP2B	Mx	.001	2.5
64	MP2C	X	1.019	2.5
65	MP2C	Z	1.765	2.5
66	MP2C	Mx	-.002	2.5
67	MP3A	X	1.37	2.5
68	MP3A	Z	2.372	2.5
69	MP3A	Mx	.001	2.5
70	MP3B	X	1.37	2.5
71	MP3B	Z	2.372	2.5
72	MP3B	Mx	.001	2.5
73	MP3C	X	.921	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
74	MP3C	Z	1.596	2.5
75	MP3C	Mx	-.002	2.5
76	MP2A	X	.613	4.35
77	MP2A	Z	1.061	4.35
78	MP2A	Mx	.000255	4.35
79	MP2B	X	.613	4.35
80	MP2B	Z	1.061	4.35
81	MP2B	Mx	.000255	4.35
82	MP2C	X	.333	4.35
83	MP2C	Z	.577	4.35
84	MP2C	Mx	-.000278	4.35
85	MP4A	X	5.404	.5
86	MP4A	Z	9.36	.5
87	MP4A	Mx	-.002	.5
88	MP4A	X	5.404	5
89	MP4A	Z	9.36	5
90	MP4A	Mx	-.002	5
91	MP4B	X	5.158	.5
92	MP4B	Z	8.934	.5
93	MP4B	Mx	-.003	.5
94	MP4B	X	5.158	5
95	MP4B	Z	8.934	5
96	MP4B	Mx	-.003	5
97	MP4C	X	3.771	.5
98	MP4C	Z	6.532	.5
99	MP4C	Mx	.005	.5
100	MP4C	X	3.771	5
101	MP4C	Z	6.532	5
102	MP4C	Mx	.005	5
103	OVP	X	2.921	1
104	OVP	Z	5.059	1
105	OVP	Mx	0	1
106	MP3A	X	.471	3
107	MP3A	Z	.815	3
108	MP3A	Mx	.000743	3
109	MP3A	X	.471	5
110	MP3A	Z	.815	5
111	MP3A	Mx	.000743	5
112	MP3B	X	.471	3
113	MP3B	Z	.815	3
114	MP3B	Mx	.000199	3
115	MP3B	X	.471	5
116	MP3B	Z	.815	5
117	MP3B	Mx	.000199	5
118	MP3A	X	.471	3
119	MP3A	Z	.815	3
120	MP3A	Mx	.000199	3
121	MP3A	X	.471	5
122	MP3A	Z	.815	5
123	MP3A	Mx	.000199	5
124	MP3B	X	.471	3
125	MP3B	Z	.815	3
126	MP3B	Mx	.000742	3
127	MP3B	X	.471	5
128	MP3B	Z	.815	5
129	MP3B	Mx	.000742	5

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	5.322	.5
3	MP2A	Mx	-.004	.5
4	MP2A	X	0	5
5	MP2A	Z	5.322	5
6	MP2A	Mx	-.004	5
7	MP2B	X	0	.5
8	MP2B	Z	3.043	.5
9	MP2B	Mx	-.000743	.5
10	MP2B	X	0	5
11	MP2B	Z	3.043	5
12	MP2B	Mx	-.000743	5
13	MP2C	X	0	.5
14	MP2C	Z	3.043	.5
15	MP2C	Mx	.003	.5
16	MP2C	X	0	5
17	MP2C	Z	3.043	5
18	MP2C	Mx	.003	5
19	MP2A	X	0	.5
20	MP2A	Z	7.889	.5
21	MP2A	Mx	.005	.5
22	MP2A	X	0	5
23	MP2A	Z	7.889	5
24	MP2A	Mx	.005	5
25	MP2B	X	0	.5
26	MP2B	Z	5.899	.5
27	MP2B	Mx	-.005	.5
28	MP2B	X	0	5
29	MP2B	Z	5.899	5
30	MP2B	Mx	-.005	5
31	MP2C	X	0	.5
32	MP2C	Z	5.899	.5
33	MP2C	Mx	.001	.5
34	MP2C	X	0	5
35	MP2C	Z	5.899	5
36	MP2C	Mx	.001	5
37	MP1A	X	0	1.75
38	MP1A	Z	3.842	1.75
39	MP1A	Mx	0	1.75
40	MP1A	X	0	3.75
41	MP1A	Z	3.842	3.75
42	MP1A	Mx	0	3.75
43	MP1B	X	0	1.75
44	MP1B	Z	1.953	1.75
45	MP1B	Mx	-.001	1.75
46	MP1B	X	0	3.75
47	MP1B	Z	1.953	3.75
48	MP1B	Mx	-.001	3.75
49	MP1C	X	0	1.75
50	MP1C	Z	1.953	1.75
51	MP1C	Mx	.001	1.75
52	MP1C	X	0	3.75
53	MP1C	Z	1.953	3.75
54	MP1C	Mx	.001	3.75
55	OVP1	X	0	1
56	OVP1	Z	6.214	1
57	OVP1	Mx	0	1
58	MP2A	X	0	2.5
59	MP2A	Z	3.038	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
60	MP2A	Mx	0	2.5
61	MP2B	X	0	2.5
62	MP2B	Z	2.288	2.5
63	MP2B	Mx	.002	2.5
64	MP2C	X	0	2.5
65	MP2C	Z	2.288	2.5
66	MP2C	Mx	-.002	2.5
67	MP3A	X	0	2.5
68	MP3A	Z	3.038	2.5
69	MP3A	Mx	0	2.5
70	MP3B	X	0	2.5
71	MP3B	Z	2.141	2.5
72	MP3B	Mx	.002	2.5
73	MP3C	X	0	2.5
74	MP3C	Z	2.141	2.5
75	MP3C	Mx	-.002	2.5
76	MP2A	X	0	4.35
77	MP2A	Z	1.411	4.35
78	MP2A	Mx	0	4.35
79	MP2B	X	0	4.35
80	MP2B	Z	.853	4.35
81	MP2B	Mx	.000308	4.35
82	MP2C	X	0	4.35
83	MP2C	Z	.853	4.35
84	MP2C	Mx	-.000308	4.35
85	MP4A	X	0	.5
86	MP4A	Z	11.13	.5
87	MP4A	Mx	.001	.5
88	MP4A	X	0	5
89	MP4A	Z	11.13	5
90	MP4A	Mx	.001	5
91	MP4B	X	0	.5
92	MP4B	Z	8.467	.5
93	MP4B	Mx	-.005	.5
94	MP4B	X	0	5
95	MP4B	Z	8.467	5
96	MP4B	Mx	-.005	5
97	MP4C	X	0	.5
98	MP4C	Z	8.467	.5
99	MP4C	Mx	.005	.5
100	MP4C	X	0	5
101	MP4C	Z	8.467	5
102	MP4C	Mx	.005	5
103	OVP	X	0	1
104	OVP	Z	6.214	1
105	OVP	Mx	0	1
106	MP3A	X	0	3
107	MP3A	Z	.941	3
108	MP3A	Mx	.000314	3
109	MP3A	X	0	5
110	MP3A	Z	.941	5
111	MP3A	Mx	.000314	5
112	MP3B	X	0	3
113	MP3B	Z	.943	3
114	MP3B	Mx	.000659	3
115	MP3B	X	0	5
116	MP3B	Z	.943	5
117	MP3B	Mx	.000659	5
118	MP3A	X	0	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
119	MP3A	Z	.941	3
120	MP3A	Mx	-.000314	3
121	MP3A	X	0	5
122	MP3A	Z	.941	5
123	MP3A	Mx	-.000314	5
124	MP3B	X	0	3
125	MP3B	Z	.943	3
126	MP3B	Mx	.000974	3
127	MP3B	X	0	5
128	MP3B	Z	.943	5
129	MP3B	Mx	.000974	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-2.281	.5
2	MP2A	Z	3.951	.5
3	MP2A	Mx	-.001	.5
4	MP2A	X	-2.281	5
5	MP2A	Z	3.951	5
6	MP2A	Mx	-.001	5
7	MP2B	X	-1.142	.5
8	MP2B	Z	1.978	.5
9	MP2B	Mx	-.002	.5
10	MP2B	X	-1.142	5
11	MP2B	Z	1.978	5
12	MP2B	Mx	-.002	5
13	MP2C	X	-2.281	.5
14	MP2C	Z	3.951	.5
15	MP2C	Mx	.004	.5
16	MP2C	X	-2.281	5
17	MP2C	Z	3.951	5
18	MP2C	Mx	.004	5
19	MP2A	X	-3.613	.5
20	MP2A	Z	6.258	.5
21	MP2A	Mx	.007	.5
22	MP2A	X	-3.613	5
23	MP2A	Z	6.258	5
24	MP2A	Mx	.007	5
25	MP2B	X	-2.618	.5
26	MP2B	Z	4.534	.5
27	MP2B	Mx	-.003	.5
28	MP2B	X	-2.618	5
29	MP2B	Z	4.534	5
30	MP2B	Mx	-.003	5
31	MP2C	X	-3.613	.5
32	MP2C	Z	6.258	.5
33	MP2C	Mx	-.002	.5
34	MP2C	X	-3.613	5
35	MP2C	Z	6.258	5
36	MP2C	Mx	-.002	5
37	MP1A	X	-1.606	1.75
38	MP1A	Z	2.782	1.75
39	MP1A	Mx	.001	1.75
40	MP1A	X	-1.606	3.75
41	MP1A	Z	2.782	3.75
42	MP1A	Mx	.001	3.75
43	MP1B	X	-.662	1.75
44	MP1B	Z	1.146	1.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP1B	Mx	-.000882	1.75
46	MP1B	X	-.662	3.75
47	MP1B	Z	1.146	3.75
48	MP1B	Mx	-.000882	3.75
49	MP1C	X	-1.606	1.75
50	MP1C	Z	2.782	1.75
51	MP1C	Mx	.001	1.75
52	MP1C	X	-1.606	3.75
53	MP1C	Z	2.782	3.75
54	MP1C	Mx	.001	3.75
55	OVP1	X	-2.921	1
56	OVP1	Z	5.059	1
57	OVP1	Mx	0	1
58	MP2A	X	-1.394	2.5
59	MP2A	Z	2.415	2.5
60	MP2A	Mx	-.001	2.5
61	MP2B	X	-1.019	2.5
62	MP2B	Z	1.765	2.5
63	MP2B	Mx	.002	2.5
64	MP2C	X	-1.394	2.5
65	MP2C	Z	2.415	2.5
66	MP2C	Mx	-.001	2.5
67	MP3A	X	-1.37	2.5
68	MP3A	Z	2.372	2.5
69	MP3A	Mx	-.001	2.5
70	MP3B	X	-.921	2.5
71	MP3B	Z	1.596	2.5
72	MP3B	Mx	.002	2.5
73	MP3C	X	-1.37	2.5
74	MP3C	Z	2.372	2.5
75	MP3C	Mx	-.001	2.5
76	MP2A	X	-.613	4.35
77	MP2A	Z	1.061	4.35
78	MP2A	Mx	-.000255	4.35
79	MP2B	X	-.333	4.35
80	MP2B	Z	.577	4.35
81	MP2B	Mx	.000278	4.35
82	MP2C	X	-.613	4.35
83	MP2C	Z	1.061	4.35
84	MP2C	Mx	-.000255	4.35
85	MP4A	X	-4.857	.5
86	MP4A	Z	8.412	.5
87	MP4A	Mx	.004	.5
88	MP4A	X	-4.857	5
89	MP4A	Z	8.412	5
90	MP4A	Mx	.004	5
91	MP4B	X	-3.771	.5
92	MP4B	Z	6.532	.5
93	MP4B	Mx	-.005	.5
94	MP4B	X	-3.771	5
95	MP4B	Z	6.532	5
96	MP4B	Mx	-.005	5
97	MP4C	X	-5.158	.5
98	MP4C	Z	8.934	.5
99	MP4C	Mx	.003	.5
100	MP4C	X	-5.158	5
101	MP4C	Z	8.934	5
102	MP4C	Mx	.003	5
103	OVP	X	-2.921	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
104	OVP	Z	5.059	1
105	OVP	Mx	0	1
106	MP3A	X	-.471	3
107	MP3A	Z	.815	3
108	MP3A	Mx	-.000199	3
109	MP3A	X	-.471	5
110	MP3A	Z	.815	5
111	MP3A	Mx	-.000199	5
112	MP3B	X	-.472	3
113	MP3B	Z	.817	3
114	MP3B	Mx	.000944	3
115	MP3B	X	-.472	5
116	MP3B	Z	.817	5
117	MP3B	Mx	.000944	5
118	MP3A	X	-.471	3
119	MP3A	Z	.815	3
120	MP3A	Mx	-.000743	3
121	MP3A	X	-.471	5
122	MP3A	Z	.815	5
123	MP3A	Mx	-.000743	5
124	MP3B	X	-.472	3
125	MP3B	Z	.817	3
126	MP3B	Mx	.000943	3
127	MP3B	X	-.472	5
128	MP3B	Z	.817	5
129	MP3B	Mx	.000943	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-2.635	.5
2	MP2A	Z	1.522	.5
3	MP2A	Mx	.000742	.5
4	MP2A	X	-2.635	5
5	MP2A	Z	1.522	5
6	MP2A	Mx	.000742	5
7	MP2B	X	-2.635	.5
8	MP2B	Z	1.522	.5
9	MP2B	Mx	-.003	.5
10	MP2B	X	-2.635	5
11	MP2B	Z	1.522	5
12	MP2B	Mx	-.003	5
13	MP2C	X	-4.609	.5
14	MP2C	Z	2.661	.5
15	MP2C	Mx	.004	.5
16	MP2C	X	-4.609	5
17	MP2C	Z	2.661	5
18	MP2C	Mx	.004	5
19	MP2A	X	-5.108	.5
20	MP2A	Z	2.949	.5
21	MP2A	Mx	.005	.5
22	MP2A	X	-5.108	5
23	MP2A	Z	2.949	5
24	MP2A	Mx	.005	5
25	MP2B	X	-5.108	.5
26	MP2B	Z	2.949	.5
27	MP2B	Mx	-.001	.5
28	MP2B	X	-5.108	5
29	MP2B	Z	2.949	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP2B	Mx	-.001	5
31	MP2C	X	-6.832	.5
32	MP2C	Z	3.945	.5
33	MP2C	Mx	-.005	.5
34	MP2C	X	-6.832	5
35	MP2C	Z	3.945	5
36	MP2C	Mx	-.005	5
37	MP1A	X	-1.691	1.75
38	MP1A	Z	.976	1.75
39	MP1A	Mx	.001	1.75
40	MP1A	X	-1.691	3.75
41	MP1A	Z	.976	3.75
42	MP1A	Mx	.001	3.75
43	MP1B	X	-1.691	1.75
44	MP1B	Z	.976	1.75
45	MP1B	Mx	-.001	1.75
46	MP1B	X	-1.691	3.75
47	MP1B	Z	.976	3.75
48	MP1B	Mx	-.001	3.75
49	MP1C	X	-3.327	1.75
50	MP1C	Z	1.921	1.75
51	MP1C	Mx	0	1.75
52	MP1C	X	-3.327	3.75
53	MP1C	Z	1.921	3.75
54	MP1C	Mx	0	3.75
55	OVP1	X	-4.413	1
56	OVP1	Z	2.548	1
57	OVP1	Mx	0	1
58	MP2A	X	-1.982	2.5
59	MP2A	Z	1.144	2.5
60	MP2A	Mx	-.002	2.5
61	MP2B	X	-1.982	2.5
62	MP2B	Z	1.144	2.5
63	MP2B	Mx	.002	2.5
64	MP2C	X	-2.631	2.5
65	MP2C	Z	1.519	2.5
66	MP2C	Mx	0	2.5
67	MP3A	X	-1.855	2.5
68	MP3A	Z	1.071	2.5
69	MP3A	Mx	-.002	2.5
70	MP3B	X	-1.855	2.5
71	MP3B	Z	1.071	2.5
72	MP3B	Mx	.002	2.5
73	MP3C	X	-2.631	2.5
74	MP3C	Z	1.519	2.5
75	MP3C	Mx	0	2.5
76	MP2A	X	-.738	4.35
77	MP2A	Z	.426	4.35
78	MP2A	Mx	-.000308	4.35
79	MP2B	X	-.738	4.35
80	MP2B	Z	.426	4.35
81	MP2B	Mx	.000307	4.35
82	MP2C	X	-1.222	4.35
83	MP2C	Z	.706	4.35
84	MP2C	Mx	0	4.35
85	MP4A	X	-6.907	.5
86	MP4A	Z	3.988	.5
87	MP4A	Mx	.005	.5
88	MP4A	X	-6.907	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
89	MP4A	Z	3.988	5
90	MP4A	Mx	.005	5
91	MP4B	X	-7.333	.5
92	MP4B	Z	4.234	.5
93	MP4B	Mx	-.005	.5
94	MP4B	X	-7.333	5
95	MP4B	Z	4.234	5
96	MP4B	Mx	-.005	5
97	MP4C	X	-9.735	.5
98	MP4C	Z	5.621	.5
99	MP4C	Mx	0	.5
100	MP4C	X	-9.735	5
101	MP4C	Z	5.621	5
102	MP4C	Mx	0	5
103	OVP	X	-4.413	1
104	OVP	Z	2.548	1
105	OVP	Mx	0	1
106	MP3A	X	-.817	3
107	MP3A	Z	.471	3
108	MP3A	Mx	-.00066	3
109	MP3A	X	-.817	5
110	MP3A	Z	.471	5
111	MP3A	Mx	-.00066	5
112	MP3B	X	-.817	3
113	MP3B	Z	.471	3
114	MP3B	Mx	.000974	3
115	MP3B	X	-.817	5
116	MP3B	Z	.471	5
117	MP3B	Mx	.000974	5
118	MP3A	X	-.817	3
119	MP3A	Z	.471	3
120	MP3A	Mx	-.000974	3
121	MP3A	X	-.817	5
122	MP3A	Z	.471	5
123	MP3A	Mx	-.000974	5
124	MP3B	X	-.817	3
125	MP3B	Z	.471	3
126	MP3B	Mx	.000659	3
127	MP3B	X	-.817	5
128	MP3B	Z	.471	5
129	MP3B	Mx	.000659	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-2.284	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	.002	.5
4	MP2A	X	-2.284	5
5	MP2A	Z	0	5
6	MP2A	Mx	.002	5
7	MP2B	X	-4.562	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	-.004	.5
10	MP2B	X	-4.562	5
11	MP2B	Z	0	5
12	MP2B	Mx	-.004	5
13	MP2C	X	-4.562	.5
14	MP2C	Z	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP2C	Mx	.001	.5
16	MP2C	X	-4.562	5
17	MP2C	Z	0	5
18	MP2C	Mx	.001	5
19	MP2A	X	-5.235	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	.003	.5
22	MP2A	X	-5.235	5
23	MP2A	Z	0	5
24	MP2A	Mx	.003	5
25	MP2B	X	-7.226	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	.002	.5
28	MP2B	X	-7.226	5
29	MP2B	Z	0	5
30	MP2B	Mx	.002	5
31	MP2C	X	-7.226	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	-.007	.5
34	MP2C	X	-7.226	5
35	MP2C	Z	0	5
36	MP2C	Mx	-.007	5
37	MP1A	X	-1.323	1.75
38	MP1A	Z	0	1.75
39	MP1A	Mx	.000882	1.75
40	MP1A	X	-1.323	3.75
41	MP1A	Z	0	3.75
42	MP1A	Mx	.000882	3.75
43	MP1B	X	-3.212	1.75
44	MP1B	Z	0	1.75
45	MP1B	Mx	-.001	1.75
46	MP1B	X	-3.212	3.75
47	MP1B	Z	0	3.75
48	MP1B	Mx	-.001	3.75
49	MP1C	X	-3.212	1.75
50	MP1C	Z	0	1.75
51	MP1C	Mx	-.001	1.75
52	MP1C	X	-3.212	3.75
53	MP1C	Z	0	3.75
54	MP1C	Mx	-.001	3.75
55	OVP1	X	-4.724	1
56	OVP1	Z	0	1
57	OVP1	Mx	0	1
58	MP2A	X	-2.039	2.5
59	MP2A	Z	0	2.5
60	MP2A	Mx	-.002	2.5
61	MP2B	X	-2.788	2.5
62	MP2B	Z	0	2.5
63	MP2B	Mx	.001	2.5
64	MP2C	X	-2.788	2.5
65	MP2C	Z	0	2.5
66	MP2C	Mx	.001	2.5
67	MP3A	X	-1.842	2.5
68	MP3A	Z	0	2.5
69	MP3A	Mx	-.002	2.5
70	MP3B	X	-2.739	2.5
71	MP3B	Z	0	2.5
72	MP3B	Mx	.001	2.5
73	MP3C	X	-2.739	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
74	MP3C	Z	0	2.5
75	MP3C	Mx	.001	2.5
76	MP2A	X	-.666	4.35
77	MP2A	Z	0	4.35
78	MP2A	Mx	-.000278	4.35
79	MP2B	X	-1.225	4.35
80	MP2B	Z	0	4.35
81	MP2B	Mx	.000255	4.35
82	MP2C	X	-1.225	4.35
83	MP2C	Z	0	4.35
84	MP2C	Mx	.000255	4.35
85	MP4A	X	-7.654	.5
86	MP4A	Z	0	.5
87	MP4A	Mx	.005	.5
88	MP4A	X	-7.654	5
89	MP4A	Z	0	5
90	MP4A	Mx	.005	5
91	MP4B	X	-10.317	.5
92	MP4B	Z	0	.5
93	MP4B	Mx	-.003	.5
94	MP4B	X	-10.317	5
95	MP4B	Z	0	5
96	MP4B	Mx	-.003	5
97	MP4C	X	-10.317	.5
98	MP4C	Z	0	.5
99	MP4C	Mx	-.003	.5
100	MP4C	X	-10.317	5
101	MP4C	Z	0	5
102	MP4C	Mx	-.003	5
103	OVP	X	-4.724	1
104	OVP	Z	0	1
105	OVP	Mx	0	1
106	MP3A	X	-.944	3
107	MP3A	Z	0	3
108	MP3A	Mx	-.000944	3
109	MP3A	X	-.944	5
110	MP3A	Z	0	5
111	MP3A	Mx	-.000944	5
112	MP3B	X	-.942	3
113	MP3B	Z	0	3
114	MP3B	Mx	.000743	3
115	MP3B	X	-.942	5
116	MP3B	Z	0	5
117	MP3B	Mx	.000743	5
118	MP3A	X	-.944	3
119	MP3A	Z	0	3
120	MP3A	Mx	-.000944	3
121	MP3A	X	-.944	5
122	MP3A	Z	0	5
123	MP3A	Mx	-.000944	5
124	MP3B	X	-.942	3
125	MP3B	Z	0	3
126	MP3B	Mx	.000199	3
127	MP3B	X	-.942	5
128	MP3B	Z	0	5
129	MP3B	Mx	.000199	5

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-2.635	.5
2	MP2A	Z	-1.522	.5
3	MP2A	Mx	.003	.5
4	MP2A	X	-2.635	5
5	MP2A	Z	-1.522	5
6	MP2A	Mx	.003	5
7	MP2B	X	-4.609	.5
8	MP2B	Z	-2.661	.5
9	MP2B	Mx	-.004	.5
10	MP2B	X	-4.609	5
11	MP2B	Z	-2.661	5
12	MP2B	Mx	-.004	5
13	MP2C	X	-2.635	.5
14	MP2C	Z	-1.522	.5
15	MP2C	Mx	-.000743	.5
16	MP2C	X	-2.635	5
17	MP2C	Z	-1.522	5
18	MP2C	Mx	-.000743	5
19	MP2A	X	-5.108	.5
20	MP2A	Z	-2.949	.5
21	MP2A	Mx	.001	.5
22	MP2A	X	-5.108	5
23	MP2A	Z	-2.949	5
24	MP2A	Mx	.001	5
25	MP2B	X	-6.832	.5
26	MP2B	Z	-3.945	.5
27	MP2B	Mx	.005	.5
28	MP2B	X	-6.832	5
29	MP2B	Z	-3.945	5
30	MP2B	Mx	.005	5
31	MP2C	X	-5.108	.5
32	MP2C	Z	-2.949	.5
33	MP2C	Mx	-.005	.5
34	MP2C	X	-5.108	5
35	MP2C	Z	-2.949	5
36	MP2C	Mx	-.005	5
37	MP1A	X	-1.691	1.75
38	MP1A	Z	-.976	1.75
39	MP1A	Mx	.001	1.75
40	MP1A	X	-1.691	3.75
41	MP1A	Z	-.976	3.75
42	MP1A	Mx	.001	3.75
43	MP1B	X	-3.327	1.75
44	MP1B	Z	-1.921	1.75
45	MP1B	Mx	0	1.75
46	MP1B	X	-3.327	3.75
47	MP1B	Z	-1.921	3.75
48	MP1B	Mx	0	3.75
49	MP1C	X	-1.691	1.75
50	MP1C	Z	-.976	1.75
51	MP1C	Mx	-.001	1.75
52	MP1C	X	-1.691	3.75
53	MP1C	Z	-.976	3.75
54	MP1C	Mx	-.001	3.75
55	OVP1	X	-4.413	1
56	OVP1	Z	-2.548	1
57	OVP1	Mx	0	1
58	MP2A	X	-1.982	2.5
59	MP2A	Z	-1.144	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
60	MP2A	Mx	-.002	2.5
61	MP2B	X	-2.631	2.5
62	MP2B	Z	-1.519	2.5
63	MP2B	Mx	0	2.5
64	MP2C	X	-1.982	2.5
65	MP2C	Z	-1.144	2.5
66	MP2C	Mx	.002	2.5
67	MP3A	X	-1.855	2.5
68	MP3A	Z	-1.071	2.5
69	MP3A	Mx	-.002	2.5
70	MP3B	X	-2.631	2.5
71	MP3B	Z	-1.519	2.5
72	MP3B	Mx	0	2.5
73	MP3C	X	-1.855	2.5
74	MP3C	Z	-1.071	2.5
75	MP3C	Mx	.002	2.5
76	MP2A	X	-.738	4.35
77	MP2A	Z	-.426	4.35
78	MP2A	Mx	-.000308	4.35
79	MP2B	X	-1.222	4.35
80	MP2B	Z	-.706	4.35
81	MP2B	Mx	0	4.35
82	MP2C	X	-.738	4.35
83	MP2C	Z	-.426	4.35
84	MP2C	Mx	.000307	4.35
85	MP4A	X	-7.856	.5
86	MP4A	Z	-4.535	.5
87	MP4A	Mx	.005	.5
88	MP4A	X	-7.856	5
89	MP4A	Z	-4.535	5
90	MP4A	Mx	.005	5
91	MP4B	X	-9.735	.5
92	MP4B	Z	-5.621	.5
93	MP4B	Mx	0	.5
94	MP4B	X	-9.735	5
95	MP4B	Z	-5.621	5
96	MP4B	Mx	0	5
97	MP4C	X	-7.333	.5
98	MP4C	Z	-4.234	.5
99	MP4C	Mx	-.005	.5
100	MP4C	X	-7.333	5
101	MP4C	Z	-4.234	5
102	MP4C	Mx	-.005	5
103	OVP	X	-4.413	1
104	OVP	Z	-2.548	1
105	OVP	Mx	0	1
106	MP3A	X	-.817	3
107	MP3A	Z	-.471	3
108	MP3A	Mx	-.000974	3
109	MP3A	X	-.817	5
110	MP3A	Z	-.471	5
111	MP3A	Mx	-.000974	5
112	MP3B	X	-.815	3
113	MP3B	Z	-.47	3
114	MP3B	Mx	.000314	3
115	MP3B	X	-.815	5
116	MP3B	Z	-.47	5
117	MP3B	Mx	.000314	5
118	MP3A	X	-.817	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
119	MP3A	Z	-.471	3
120	MP3A	Mx	-.00066	3
121	MP3A	X	-.817	5
122	MP3A	Z	-.471	5
123	MP3A	Mx	-.00066	5
124	MP3B	X	-.815	3
125	MP3B	Z	-.47	3
126	MP3B	Mx	-.000313	3
127	MP3B	X	-.815	5
128	MP3B	Z	-.47	5
129	MP3B	Mx	-.000313	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-2.281	.5
2	MP2A	Z	-3.951	.5
3	MP2A	Mx	.004	.5
4	MP2A	X	-2.281	5
5	MP2A	Z	-3.951	5
6	MP2A	Mx	.004	5
7	MP2B	X	-2.281	.5
8	MP2B	Z	-3.951	.5
9	MP2B	Mx	-.001	.5
10	MP2B	X	-2.281	5
11	MP2B	Z	-3.951	5
12	MP2B	Mx	-.001	5
13	MP2C	X	-1.142	.5
14	MP2C	Z	-1.978	.5
15	MP2C	Mx	-.002	.5
16	MP2C	X	-1.142	5
17	MP2C	Z	-1.978	5
18	MP2C	Mx	-.002	5
19	MP2A	X	-3.613	.5
20	MP2A	Z	-6.258	.5
21	MP2A	Mx	-.002	.5
22	MP2A	X	-3.613	5
23	MP2A	Z	-6.258	5
24	MP2A	Mx	-.002	5
25	MP2B	X	-3.613	.5
26	MP2B	Z	-6.258	.5
27	MP2B	Mx	.007	.5
28	MP2B	X	-3.613	5
29	MP2B	Z	-6.258	5
30	MP2B	Mx	.007	5
31	MP2C	X	-2.618	.5
32	MP2C	Z	-4.534	.5
33	MP2C	Mx	-.003	.5
34	MP2C	X	-2.618	5
35	MP2C	Z	-4.534	5
36	MP2C	Mx	-.003	5
37	MP1A	X	-1.606	1.75
38	MP1A	Z	-2.782	1.75
39	MP1A	Mx	.001	1.75
40	MP1A	X	-1.606	3.75
41	MP1A	Z	-2.782	3.75
42	MP1A	Mx	.001	3.75
43	MP1B	X	-1.606	1.75
44	MP1B	Z	-2.782	1.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP1B	Mx	.001	1.75
46	MP1B	X	-1.606	3.75
47	MP1B	Z	-2.782	3.75
48	MP1B	Mx	.001	3.75
49	MP1C	X	-.662	1.75
50	MP1C	Z	-1.146	1.75
51	MP1C	Mx	-.000882	1.75
52	MP1C	X	-.662	3.75
53	MP1C	Z	-1.146	3.75
54	MP1C	Mx	-.000882	3.75
55	OVP1	X	-2.921	1
56	OVP1	Z	-5.059	1
57	OVP1	Mx	0	1
58	MP2A	X	-1.394	2.5
59	MP2A	Z	-2.415	2.5
60	MP2A	Mx	-.001	2.5
61	MP2B	X	-1.394	2.5
62	MP2B	Z	-2.415	2.5
63	MP2B	Mx	-.001	2.5
64	MP2C	X	-1.019	2.5
65	MP2C	Z	-1.765	2.5
66	MP2C	Mx	.002	2.5
67	MP3A	X	-1.37	2.5
68	MP3A	Z	-2.372	2.5
69	MP3A	Mx	-.001	2.5
70	MP3B	X	-1.37	2.5
71	MP3B	Z	-2.372	2.5
72	MP3B	Mx	-.001	2.5
73	MP3C	X	-.921	2.5
74	MP3C	Z	-1.596	2.5
75	MP3C	Mx	.002	2.5
76	MP2A	X	-.613	4.35
77	MP2A	Z	-1.061	4.35
78	MP2A	Mx	-.000255	4.35
79	MP2B	X	-.613	4.35
80	MP2B	Z	-1.061	4.35
81	MP2B	Mx	-.000255	4.35
82	MP2C	X	-.333	4.35
83	MP2C	Z	-.577	4.35
84	MP2C	Mx	.000278	4.35
85	MP4A	X	-5.404	.5
86	MP4A	Z	-9.36	.5
87	MP4A	Mx	.002	.5
88	MP4A	X	-5.404	5
89	MP4A	Z	-9.36	5
90	MP4A	Mx	.002	5
91	MP4B	X	-5.158	.5
92	MP4B	Z	-8.934	.5
93	MP4B	Mx	.003	.5
94	MP4B	X	-5.158	5
95	MP4B	Z	-8.934	5
96	MP4B	Mx	.003	5
97	MP4C	X	-3.771	.5
98	MP4C	Z	-6.532	.5
99	MP4C	Mx	-.005	.5
100	MP4C	X	-3.771	5
101	MP4C	Z	-6.532	5
102	MP4C	Mx	-.005	5
103	OVP	X	-2.921	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
104	OVP	Z	-5.059	1
105	OVP	Mx	0	1
106	MP3A	X	-.471	3
107	MP3A	Z	-.815	3
108	MP3A	Mx	-.000743	3
109	MP3A	X	-.471	5
110	MP3A	Z	-.815	5
111	MP3A	Mx	-.000743	5
112	MP3B	X	-.471	3
113	MP3B	Z	-.815	3
114	MP3B	Mx	-.000199	3
115	MP3B	X	-.471	5
116	MP3B	Z	-.815	5
117	MP3B	Mx	-.000199	5
118	MP3A	X	-.471	3
119	MP3A	Z	-.815	3
120	MP3A	Mx	-.000199	3
121	MP3A	X	-.471	5
122	MP3A	Z	-.815	5
123	MP3A	Mx	-.000199	5
124	MP3B	X	-.471	3
125	MP3B	Z	-.815	3
126	MP3B	Mx	-.000742	3
127	MP3B	X	-.471	5
128	MP3B	Z	-.815	5
129	MP3B	Mx	-.000742	5

Member Point Loads (BLC 77 : Lm1)

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

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	LIVE 2	Y	-500	0

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M73	Y	-250	0

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M73	Y	-250	%50

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-.82	.5
2	MP2A	My	-.000547	.5
3	MP2A	Mz	-.000547	.5
4	MP2A	Y	-.82	5
5	MP2A	My	-.000547	5
6	MP2A	Mz	-.000547	5
7	MP2B	Y	-.82	.5
8	MP2B	My	.000747	.5
9	MP2B	Mz	-.0002	.5
10	MP2B	Y	-.82	5
11	MP2B	My	.000747	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
12	MP2B	Mz	-.0002	5
13	MP2C	Y	-.82	.5
14	MP2C	My	-.0002	.5
15	MP2C	Mz	.000747	.5
16	MP2C	Y	-.82	5
17	MP2C	My	-.0002	5
18	MP2C	Mz	.000747	5
19	MP2A	Y	-1.213	.5
20	MP2A	My	-.000809	.5
21	MP2A	Mz	.000809	.5
22	MP2A	Y	-1.213	5
23	MP2A	My	-.000809	5
24	MP2A	Mz	.000809	5
25	MP2B	Y	-1.213	.5
26	MP2B	My	-.000296	.5
27	MP2B	Mz	-.001	.5
28	MP2B	Y	-1.213	5
29	MP2B	My	-.000296	5
30	MP2B	Mz	-.001	5
31	MP2C	Y	-1.213	.5
32	MP2C	My	.001	.5
33	MP2C	Mz	.000296	.5
34	MP2C	Y	-1.213	5
35	MP2C	My	.001	5
36	MP2C	Mz	.000296	5
37	MP1A	Y	-1.635	1.75
38	MP1A	My	-.001	1.75
39	MP1A	Mz	0	1.75
40	MP1A	Y	-1.635	3.75
41	MP1A	My	-.001	3.75
42	MP1A	Mz	0	3.75
43	MP1B	Y	-1.635	1.75
44	MP1B	My	.000545	1.75
45	MP1B	Mz	-.000944	1.75
46	MP1B	Y	-1.635	3.75
47	MP1B	My	.000545	3.75
48	MP1B	Mz	-.000944	3.75
49	MP1C	Y	-1.635	1.75
50	MP1C	My	.000545	1.75
51	MP1C	Mz	.000944	1.75
52	MP1C	Y	-1.635	3.75
53	MP1C	My	.000545	3.75
54	MP1C	Mz	.000944	3.75
55	OVP1	Y	-1.201	1
56	OVP1	My	0	1
57	OVP1	Mz	0	1
58	MP2A	Y	-2.805	2.5
59	MP2A	My	.002	2.5
60	MP2A	Mz	0	2.5
61	MP2B	Y	-2.805	2.5
62	MP2B	My	-.001	2.5
63	MP2B	Mz	.002	2.5
64	MP2C	Y	-2.805	2.5
65	MP2C	My	-.001	2.5
66	MP2C	Mz	-.002	2.5
67	MP3A	Y	-2.64	2.5
68	MP3A	My	.002	2.5
69	MP3A	Mz	0	2.5
70	MP3B	Y	-2.64	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
71	MP3B	My	-.001	2.5
72	MP3B	Mz	.002	2.5
73	MP3C	Y	-2.64	2.5
74	MP3C	My	-.001	2.5
75	MP3C	Mz	-.002	2.5
76	MP2A	Y	-.702	4.35
77	MP2A	My	.000293	4.35
78	MP2A	Mz	0	4.35
79	MP2B	Y	-.702	4.35
80	MP2B	My	-.000146	4.35
81	MP2B	Mz	.000253	4.35
82	MP2C	Y	-.702	4.35
83	MP2C	My	-.000146	4.35
84	MP2C	Mz	-.000253	4.35
85	MP4A	Y	-.924	.5
86	MP4A	My	-.000606	.5
87	MP4A	Mz	.000107	.5
88	MP4A	Y	-.924	5
89	MP4A	My	-.000606	5
90	MP4A	Mz	.000107	5
91	MP4B	Y	-.924	.5
92	MP4B	My	.000308	.5
93	MP4B	Mz	-.000533	.5
94	MP4B	Y	-.924	5
95	MP4B	My	.000308	5
96	MP4B	Mz	-.000533	5
97	MP4C	Y	-.924	.5
98	MP4C	My	.000308	.5
99	MP4C	Mz	.000533	.5
100	MP4C	Y	-.924	5
101	MP4C	My	.000308	5
102	MP4C	Mz	.000533	5
103	OVP	Y	-1.201	1
104	OVP	My	0	1
105	OVP	Mz	0	1
106	MP3A	Y	-.33	3
107	MP3A	My	.00033	3
108	MP3A	Mz	.00011	3
109	MP3A	Y	-.33	5
110	MP3A	My	.00033	5
111	MP3A	Mz	.00011	5
112	MP3B	Y	-.33	3
113	MP3B	My	-.000261	3
114	MP3B	Mz	.000231	3
115	MP3B	Y	-.33	5
116	MP3B	My	-.000261	5
117	MP3B	Mz	.000231	5
118	MP3A	Y	-.33	3
119	MP3A	My	.00033	3
120	MP3A	Mz	-.00011	3
121	MP3A	Y	-.33	5
122	MP3A	My	.00033	5
123	MP3A	Mz	-.00011	5
124	MP3B	Y	-.33	3
125	MP3B	My	-7e-5	3
126	MP3B	Mz	.000341	3
127	MP3B	Y	-.33	5
128	MP3B	My	-7e-5	5
129	MP3B	Mz	.000341	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Z	-2.051	.5
2	MP2A	Mx	.001	.5
3	MP2A	Z	-2.051	5
4	MP2A	Mx	.001	5
5	MP2B	Z	-2.051	.5
6	MP2B	Mx	.0005	.5
7	MP2B	Z	-2.051	5
8	MP2B	Mx	.0005	5
9	MP2C	Z	-2.051	.5
10	MP2C	Mx	-.002	.5
11	MP2C	Z	-2.051	5
12	MP2C	Mx	-.002	5
13	MP2A	Z	-3.032	.5
14	MP2A	Mx	-.002	.5
15	MP2A	Z	-3.032	5
16	MP2A	Mx	-.002	5
17	MP2B	Z	-3.032	.5
18	MP2B	Mx	.003	.5
19	MP2B	Z	-3.032	5
20	MP2B	Mx	.003	5
21	MP2C	Z	-3.032	.5
22	MP2C	Mx	-.00074	.5
23	MP2C	Z	-3.032	5
24	MP2C	Mx	-.00074	5
25	MP1A	Z	-4.088	1.75
26	MP1A	Mx	0	1.75
27	MP1A	Z	-4.088	3.75
28	MP1A	Mx	0	3.75
29	MP1B	Z	-4.088	1.75
30	MP1B	Mx	.002	1.75
31	MP1B	Z	-4.088	3.75
32	MP1B	Mx	.002	3.75
33	MP1C	Z	-4.088	1.75
34	MP1C	Mx	-.002	1.75
35	MP1C	Z	-4.088	3.75
36	MP1C	Mx	-.002	3.75
37	OVP1	Z	-3.004	1
38	OVP1	Mx	0	1
39	MP2A	Z	-7.012	2.5
40	MP2A	Mx	0	2.5
41	MP2B	Z	-7.012	2.5
42	MP2B	Mx	-.005	2.5
43	MP2C	Z	-7.012	2.5
44	MP2C	Mx	.005	2.5
45	MP3A	Z	-6.599	2.5
46	MP3A	Mx	0	2.5
47	MP3B	Z	-6.599	2.5
48	MP3B	Mx	-.005	2.5
49	MP3C	Z	-6.599	2.5
50	MP3C	Mx	.005	2.5
51	MP2A	Z	-1.755	4.35
52	MP2A	Mx	0	4.35
53	MP2B	Z	-1.755	4.35
54	MP2B	Mx	-.000633	4.35
55	MP2C	Z	-1.755	4.35
56	MP2C	Mx	.000633	4.35
57	MP4A	Z	-2.309	.5
58	MP4A	Mx	-.000267	.5
59	MP4A	Z	-2.309	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
60	MP4A	Mx	-.000267	5
61	MP4B	Z	-2.309	.5
62	MP4B	Mx	.001	.5
63	MP4B	Z	-2.309	5
64	MP4B	Mx	.001	5
65	MP4C	Z	-2.309	.5
66	MP4C	Mx	-.001	.5
67	MP4C	Z	-2.309	5
68	MP4C	Mx	-.001	5
69	OVP	Z	-3.004	1
70	OVP	Mx	0	1
71	MP3A	Z	-.826	3
72	MP3A	Mx	-.000275	3
73	MP3A	Z	-.826	5
74	MP3A	Mx	-.000275	5
75	MP3B	Z	-.826	3
76	MP3B	Mx	-.000578	3
77	MP3B	Z	-.826	5
78	MP3B	Mx	-.000578	5
79	MP3A	Z	-.826	3
80	MP3A	Mx	.000275	3
81	MP3A	Z	-.826	5
82	MP3A	Mx	.000275	5
83	MP3B	Z	-.826	3
84	MP3B	Mx	-.000853	3
85	MP3B	Z	-.826	5
86	MP3B	Mx	-.000853	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	2.051	.5
2	MP2A	Mx	-.001	.5
3	MP2A	X	2.051	5
4	MP2A	Mx	-.001	5
5	MP2B	X	2.051	.5
6	MP2B	Mx	.002	.5
7	MP2B	X	2.051	5
8	MP2B	Mx	.002	5
9	MP2C	X	2.051	.5
10	MP2C	Mx	-.0005	.5
11	MP2C	X	2.051	5
12	MP2C	Mx	-.0005	5
13	MP2A	X	3.032	.5
14	MP2A	Mx	-.002	.5
15	MP2A	X	3.032	5
16	MP2A	Mx	-.002	5
17	MP2B	X	3.032	.5
18	MP2B	Mx	-.00074	.5
19	MP2B	X	3.032	5
20	MP2B	Mx	-.00074	5
21	MP2C	X	3.032	.5
22	MP2C	Mx	.003	.5
23	MP2C	X	3.032	5
24	MP2C	Mx	.003	5
25	MP1A	X	4.088	1.75
26	MP1A	Mx	-.003	1.75
27	MP1A	X	4.088	3.75
28	MP1A	Mx	-.003	3.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP1B	X	4.088	1.75
30	MP1B	Mx	.001	1.75
31	MP1B	X	4.088	3.75
32	MP1B	Mx	.001	3.75
33	MP1C	X	4.088	1.75
34	MP1C	Mx	.001	1.75
35	MP1C	X	4.088	3.75
36	MP1C	Mx	.001	3.75
37	OVP1	X	3.004	1
38	OVP1	Mx	0	1
39	MP2A	X	7.012	2.5
40	MP2A	Mx	.006	2.5
41	MP2B	X	7.012	2.5
42	MP2B	Mx	-.003	2.5
43	MP2C	X	7.012	2.5
44	MP2C	Mx	-.003	2.5
45	MP3A	X	6.599	2.5
46	MP3A	Mx	.005	2.5
47	MP3B	X	6.599	2.5
48	MP3B	Mx	-.003	2.5
49	MP3C	X	6.599	2.5
50	MP3C	Mx	-.003	2.5
51	MP2A	X	1.755	4.35
52	MP2A	Mx	.000731	4.35
53	MP2B	X	1.755	4.35
54	MP2B	Mx	-.000366	4.35
55	MP2C	X	1.755	4.35
56	MP2C	Mx	-.000366	4.35
57	MP4A	X	2.309	.5
58	MP4A	Mx	-.002	.5
59	MP4A	X	2.309	5
60	MP4A	Mx	-.002	5
61	MP4B	X	2.309	.5
62	MP4B	Mx	.00077	.5
63	MP4B	X	2.309	5
64	MP4B	Mx	.00077	5
65	MP4C	X	2.309	.5
66	MP4C	Mx	.00077	.5
67	MP4C	X	2.309	5
68	MP4C	Mx	.00077	5
69	OVP	X	3.004	1
70	OVP	Mx	0	1
71	MP3A	X	.826	3
72	MP3A	Mx	.000826	3
73	MP3A	X	.826	5
74	MP3A	Mx	.000826	5
75	MP3B	X	.826	3
76	MP3B	Mx	-.000651	3
77	MP3B	X	.826	5
78	MP3B	Mx	-.000651	5
79	MP3A	X	.826	3
80	MP3A	Mx	.000826	3
81	MP3A	X	.826	5
82	MP3A	Mx	.000826	5
83	MP3B	X	.826	3
84	MP3B	Mx	-.000175	3
85	MP3B	X	.826	5
86	MP3B	Mx	-.000175	5

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N180	N156	N161	N179	Y	Two Way	-.005
2	N156	N140	N142	N155	Y	Two Way	-.005
3	N155	N193	N194	N159	Y	Two Way	-.005
4	N138	N140A	N158	N159	Y	Two Way	-.005
5	N158	N168	N169	N162	Y	Two Way	-.005
6	N142B	N144	N161	N162	Y	Two Way	-.005

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N180	N156	N161	N179	Y	Two Way	-.013
2	N156	N140	N142	N155	Y	Two Way	-.013
3	N155	N193	N194	N159	Y	Two Way	-.013
4	N138	N140A	N158	N159	Y	Two Way	-.013
5	N158	N168	N169	N162	Y	Two Way	-.013
6	N142B	N144	N161	N162	Y	Two Way	-.013

Member Area Loads (BLC 84 : Structure Ev)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N180	N156	N161	N179	Y	Two Way	-.000195
2	N156	N140	N142	N155	Y	Two Way	-.000195
3	N155	N193	N194	N159	Y	Two Way	-.000195
4	N138	N140A	N158	N159	Y	Two Way	-.000195
5	N158	N168	N169	N162	Y	Two Way	-.000195
6	N142B	N144	N161	N162	Y	Two Way	-.000195

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N180	N156	N161	N179	Z	Two Way	-.000488
2	N156	N140	N142	N155	Z	Two Way	-.000488
3	N155	N193	N194	N159	Z	Two Way	-.000488
4	N138	N140A	N158	N159	Z	Two Way	-.000488
5	N158	N168	N169	N162	Z	Two Way	-.000488
6	N142B	N144	N161	N162	Z	Two Way	-.000488

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N180	N156	N161	N179	X	Two Way	.000488
2	N156	N140	N142	N155	X	Two Way	.000488
3	N155	N193	N194	N159	X	Two Way	.000488
4	N138	N140A	N158	N159	X	Two Way	.000488
5	N158	N168	N169	N162	X	Two Way	.000488
6	N142B	N144	N161	N162	X	Two Way	.000488

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	N153A	max	3937.851	10	3528.334	13	-1828.476	68	7.912	13	2.893	4	1.729	4
2		min	-3898.073	4	249.976	7	-7658.168	24	-1.174	7	-2.935	10	-1.701	10
3	N171	max	-111.749	12	3553	21	4748.654	24	.83	1	2.967	12	.973	3
4		min	-7049.225	18	266.152	3	-2097.127	6	-3.971	20	-2.938	6	-6.921	21
5	N185	max	6924.239	20	3250.182	17	4616.102	14	.856	12	2.804	8	6.534	17
6		min	360.207	2	162.149	11	-2075.662	8	-3.889	18	-2.814	2	-1.043	11
7	Totals:	max	4436.664	10	9651.294	19	4477.677	1						
8		min	-4436.677	4	2406.097	64	-4477.671	7						

Joint Reactions (By Combination)

	LC	Joint Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
1	1	N153A	-99.21	2013.816	-2906.354	5.967	-.027	.076
2	1	N171	-471.984	706.032	3705.099	.83	2.234	-1.27
3	1	N185	571.215	627.883	3678.932	.836	-2.136	1.031
4	1	Totals:	.021	3347.731	4477.677			
5	1	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
6	2	N153A	-1282.2	1890.844	-2805.788	5.495	.85	.627
7	2	N171	-1302.742	381.325	2114.995	.808	.931	.256
8	2	N185	360.207	1075.571	4544.666	.27	-2.814	2.694
9	2	Totals:	-2224.734	3347.739	3853.873			
10	2	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
11	3	N153A	-3002.282	1575.537	-2645.896	4.214	2.176	1.359
12	3	N171	-1922.314	266.152	1070.506	.558	.062	.973
13	3	N185	1088.708	1506.069	3790.282	-.966	-2.074	3.978
14	3	Totals:	-3835.888	3347.758	2214.892			
15	3	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
16	4	N153A	-3898.073	1140.733	-2432.119	2.462	2.893	1.729
17	4	N171	-2599.944	386.914	39.722	-.151	-.85	.891
18	4	N185	2061.34	1820.134	2392.364	-2.244	-.823	4.753
19	4	Totals:	-4436.677	3347.781	-.032			
20	4	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
21	5	N153A	-2868.132	690.019	-2248.784	.665	2.155	1.3
22	5	N171	-3602.894	720.001	-1422.313	-1.438	-2.21	.175
23	5	N185	2604.874	1937.783	1438.685	-2.934	-.028	4.958
24	5	Totals:	-3866.152	3347.803	-2232.412			
25	5	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
26	6	N153A	-1073.922	360.175	-2185.579	-.676	.851	.526
27	6	N171	-4232.179	1170.517	-2097.127	-2.647	-2.938	-1.177
28	6	N185	3063.865	1817.125	398.556	-3.149	.81	4.322
29	6	Totals:	-2242.236	3347.818	-3884.151			
30	6	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
31	7	N153A	152.883	249.976	-2226.236	-1.174	-.021	-.056
32	7	N171	-3880.988	1601.773	-1077.06	-3.15	-2.188	-2.948
33	7	N185	3728.071	1496.075	-1174.375	-3.132	2.105	2.876
34	7	Totals:	-.034	3347.823	-4477.671			
35	7	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
36	8	N153A	1364.103	379.766	-2304.672	-.714	-.916	-.625
37	8	N171	-3084.454	1908.367	526.466	-3.133	-.886	-4.476
38	8	N185	3945.072	1059.683	-2075.662	-2.589	2.804	1.209
39	8	Totals:	2224.72	3347.816	-3853.868			
40	8	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
41	9	N153A	3075.803	712.852	-2427.138	.563	-2.237	-1.353
42	9	N171	-2493.494	2021.584	1544.863	-2.907	-.039	-5.19
43	9	N185	3253.565	613.362	-1332.613	-1.366	2.08	-.089
44	9	Totals:	3835.874	3347.797	-2214.888			
45	9	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
46	10	N153A	3937.851	1159.188	-2627.157	2.323	-2.935	-1.701
47	10	N171	-1810.471	1907.029	2539.582	-2.206	.855	-5.087
48	10	N185	2309.284	281.557	87.61	-.087	.827	-.858
49	10	Totals:	4436.664	3347.774	.035			
50	10	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
51	11	N153A	2878.896	1593.566	-2836.276	4.114	-2.179	-1.254
52	11	N171	-769.724	1592.037	3989.204	-.915	2.219	-4.37
53	11	N185	1756.967	162.149	1079.488	.618	.01	-1.043
54	11	Totals:	3866.139	3347.752	2232.416			
55	11	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
56	12	N153A	1090.077	1905.067	-2935.559	5.46	-.877	-.483
57	12	N171	-111.749	1153.471	4686.836	.309	2.967	-3.037
58	12	N185	1263.895	289.199	2132.879	.856	-.846	-.41

Joint Reactions (By Combination) (Continued)

	LC	Joint Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
59	12	Totals:	2242.223	3347.736	3884.156			
60	12	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
61	13	N153A	29.214	3528.334	-7653.561	7.912	-.049	.032
62	13	N171	-6005.901	3211.281	4493.122	-2.859	.648	-5.841
63	13	N185	5976.682	2911.653	4390.805	-2.77	-.612	5.459
64	13	Totals:	-.005	9651.268	1230.367			
65	13	COG (ft):	X: -.081	Y: 1.379	Z: -.03			
66	14	N153A	-340.13	3496.263	-7625.328	7.786	.223	.203
67	14	N171	-6210.609	3128.681	4073.72	-2.853	.31	-5.423
68	14	N185	5936.226	3026.326	4616.102	-2.931	-.781	5.912
69	14	Totals:	-614.513	9651.27	1064.493			
70	14	COG (ft):	X: -.081	Y: 1.379	Z: -.03			
71	15	N153A	-795.113	3412.851	-7577.164	7.433	.572	.398
72	15	N171	-6394.445	3099.223	3755.508	-2.932	.048	-5.216
73	15	N185	6127.567	3139.202	4434.87	-3.263	-.597	6.274
74	15	Totals:	-1061.991	9651.275	613.215			
75	15	COG (ft):	X: -.081	Y: 1.379	Z: -.03			
76	16	N153A	-1010.156	3299.222	-7510.316	6.948	.743	.486
77	16	N171	-6606.161	3130.982	3442.001	-3.143	-.229	-5.234
78	16	N185	6391.581	3221.078	4068.31	-3.608	-.266	6.491
79	16	Totals:	-1224.736	9651.282	-.005			
80	16	COG (ft):	X: -.081	Y: 1.379	Z: -.03			
81	17	N153A	-746.962	3185.114	-7447.153	6.455	.554	.376
82	17	N171	-6881.482	3215.992	3065.009	-3.491	-.584	-5.438
83	17	N185	6566.769	3250.182	3769.11	-3.813	-.015	6.534
84	17	Totals:	-1061.675	9651.288	-613.035			
85	17	COG (ft):	X: -.081	Y: 1.379	Z: -.03			
86	18	N153A	-278.749	3102.423	-7417.151	6.086	.215	.173
87	18	N171	-7049.225	3330.627	2908.66	-3.814	-.76	-5.814
88	18	N185	6713.64	3218.243	3444.321	-3.889	.247	6.349
89	18	Totals:	-614.333	9651.292	-1064.17			
90	18	COG (ft):	X: -.081	Y: 1.379	Z: -.03			
91	19	N153A	89.206	3074.062	-7422.773	5.945	-.046	0
92	19	N171	-6972.54	3442.999	3167.144	-3.964	-.573	-6.296
93	19	N185	6883.314	3134.233	3025.272	-3.879	.588	5.957
94	19	Totals:	-.02	9651.294	-1230.357			
95	19	COG (ft):	X: -.081	Y: 1.379	Z: -.03			
96	20	N153A	460.741	3106.92	-7449.144	6.07	-.319	-.172
97	20	N171	-6770.493	3523.957	3587.517	-3.971	-.236	-6.714
98	20	N185	6924.239	3020.415	2797.144	-3.72	.76	5.503
99	20	Totals:	614.487	9651.292	-1064.484			
100	20	COG (ft):	X: -.081	Y: 1.379	Z: -.03			
101	21	N153A	915.229	3191.986	-7494.287	6.424	-.667	-.367
102	21	N171	-6588.883	3553	3903.779	-3.894	.024	-6.921
103	21	N185	6735.619	2906.3	2977.303	-3.39	.576	5.14
104	21	Totals:	1061.965	9651.287	-613.205			
105	21	COG (ft):	X: -.081	Y: 1.379	Z: -.03			
106	22	N153A	1127.564	3306.49	-7560.276	6.909	-.837	-.454
107	22	N171	-6376.787	3522.002	4214.515	-3.683	.301	-6.901
108	22	N185	6473.933	2822.788	3345.775	-3.044	.245	4.924
109	22	Totals:	1224.711	9651.28	.015			
110	22	COG (ft):	X: -.081	Y: 1.379	Z: -.03			
111	23	N153A	862.065	3419.325	-7625.261	7.402	-.647	-.342
112	23	N171	-6098.561	3438.65	4590.413	-3.334	.656	-6.697
113	23	N185	6298.145	2793.3	3647.893	-2.838	-.008	4.883
114	23	Totals:	1061.649	9651.274	613.044			
115	23	COG (ft):	X: -.081	Y: 1.379	Z: -.03			
116	24	N153A	394.35	3500.353	-7658.168	7.771	-.308	-.139
117	24	N171	-5928.684	3324.903	4748.654	-3.01	.833	-6.322

Joint Reactions (By Combination) (Continued)

	LC	Joint Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
118	24	N185	6148.642	2826.014	3973.694	-2.761	-.271	5.067
119	24	Totals:	614.308	9651.27	1064.18			
120	24	COG (ft):	X: -.081	Y: 1.379	Z: -.03			
121	25	N153A	-1094.836	1109.294	-3081.351	2.173	.726	.508
122	25	N171	-3001.088	1092.519	744.609	-1.283	-.551	-1.497
123	25	N185	4095.925	1895.993	2616.565	-2.591	-.188	4.155
124	25	Totals:	0	4097.806	279.823			
125	25	COG (ft):	X: .966	Y: 1.126	Z: .672			
126	26	N153A	-1170.243	1101.618	-3075.547	2.144	.781	.544
127	26	N171	-3052.011	1073.19	644.179	-1.285	-.633	-1.401
128	26	N185	4083.203	1922.998	2672.204	-2.626	-.231	4.259
129	26	Totals:	-139.051	4097.807	240.836			
130	26	COG (ft):	X: .966	Y: 1.126	Z: .672			
131	27	N153A	-1278.108	1081.708	-3066.532	2.065	.864	.59
132	27	N171	-3089.908	1066.353	579.022	-1.3	-.687	-1.357
133	27	N185	4128.275	1949.747	2625.907	-2.703	-.186	4.34
134	27	Totals:	-239.741	4097.808	138.397			
135	27	COG (ft):	X: .966	Y: 1.126	Z: .672			
136	28	N153A	-1333.639	1054.424	-3053.471	1.955	.909	.612
137	28	N171	-3132.295	1073.889	515.097	-1.344	-.744	-1.362
138	28	N185	4188.638	1969.496	2538.339	-2.783	-.107	4.389
139	28	Totals:	-277.296	4097.809	-.035			
140	28	COG (ft):	X: .966	Y: 1.126	Z: .672			
141	29	N153A	-1268.747	1026.711	-3041.345	1.843	.862	.585
142	29	N171	-3195.794	1094.328	423.84	-1.425	-.829	-1.407
143	29	N185	4222.909	1976.772	2477.949	-2.826	-.057	4.401
144	29	Totals:	-241.632	4097.811	-139.556			
145	29	COG (ft):	X: .966	Y: 1.126	Z: .672			
146	30	N153A	-1156.688	1006.484	-3036.668	1.759	.781	.537
147	30	N171	-3235.755	1122.098	381.248	-1.5	-.875	-1.491
148	30	N185	4252.3	1969.23	2412.628	-2.84	-.004	4.361
149	30	Totals:	-140.144	4097.812	-242.791			
150	30	COG (ft):	X: .966	Y: 1.126	Z: .672			
151	31	N153A	-1080.608	999.522	-3039.188	1.728	.727	.501
152	31	N171	-3213.519	1149.187	444.443	-1.532	-.828	-1.601
153	31	N185	4294.125	1949.103	2314.857	-2.839	.076	4.271
154	31	Totals:	-.003	4097.812	-279.888			
155	31	COG (ft):	X: .966	Y: 1.126	Z: .672			
156	32	N153A	-1005.092	1007.223	-3044.904	1.757	.671	.466
157	32	N171	-3162.726	1168.446	544.923	-1.53	-.746	-1.697
158	32	N185	4306.868	1922.142	2259.081	-2.804	.12	4.167
159	32	Totals:	139.049	4097.812	-240.901			
160	32	COG (ft):	X: .966	Y: 1.126	Z: .672			
161	33	N153A	-897.26	1027.203	-3053.776	1.836	.588	.42
162	33	N171	-3124.943	1175.277	609.98	-1.515	-.693	-1.741
163	33	N185	4261.942	1895.33	2305.335	-2.727	.074	4.086
164	33	Totals:	239.739	4097.81	-138.462			
165	33	COG (ft):	X: .966	Y: 1.126	Z: .672			
166	34	N153A	-841.864	1054.533	-3066.795	1.946	.543	.397
167	34	N171	-3082.545	1167.768	673.767	-1.471	-.636	-1.736
168	34	N185	4201.703	1875.507	2392.998	-2.648	-.004	4.037
169	34	Totals:	277.294	4097.809	-.03			
170	34	COG (ft):	X: .966	Y: 1.126	Z: .672			
171	35	N153A	-906.869	1082.186	-3079.025	2.058	.59	.424
172	35	N171	-3018.906	1147.399	764.977	-1.39	-.551	-1.691
173	35	N185	4167.406	1868.222	2453.539	-2.604	-.055	4.025
174	35	Totals:	241.631	4097.808	139.491			
175	35	COG (ft):	X: .966	Y: 1.126	Z: .672			
176	36	N153A	-1018.905	1102.342	-3083.836	2.142	.671	.472

Joint Reactions (By Combination) (Continued)

	LC	Joint Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
177	36	N171	-2978.83	1119.673	807.657	-1.315	-.505	-1.607
178	36	N185	4137.876	1875.792	2518.906	-2.59	-.107	4.065
179	36	Totals:	140.142	4097.807	242.727			
180	36	COG (ft):	X: .966	Y: 1.126	Z: .672			
181	37	N153A	-301.63	1002.534	-2613.69	2.124	.191	.157
182	37	N171	-2538.372	1441.113	1202.406	-1.584	-.094	-2.382
183	37	N185	2839.997	1654.153	1691.112	-2.047	-.117	3.139
184	37	Totals:	-.005	4097.8	279.828			
185	37	COG (ft):	X: .266	Y: 1.126	Z: .672			
186	38	N153A	-376.974	994.668	-2608.07	2.095	.247	.192
187	38	N171	-2589.025	1421.818	1102.113	-1.586	-.176	-2.286
188	38	N185	2826.943	1681.314	1746.798	-2.081	-.16	3.243
189	38	Totals:	-139.056	4097.8	240.841			
190	38	COG (ft):	X: .266	Y: 1.126	Z: .672			
191	39	N153A	-484.62	974.479	-2599.295	2.015	.33	.238
192	39	N171	-2626.745	1414.956	1037.3	-1.601	-.23	-2.241
193	39	N185	2871.618	1708.367	1700.396	-2.158	-.115	3.324
194	39	Totals:	-239.747	4097.802	138.402			
195	39	COG (ft):	X: .266	Y: 1.126	Z: .672			
196	40	N153A	-539.811	946.968	-2586.414	1.906	.374	.261
197	40	N171	-2669.12	1422.431	973.794	-1.645	-.286	-2.247
198	40	N185	2931.63	1728.405	1612.59	-2.238	-.037	3.372
199	40	Totals:	-277.301	4097.803	-.03			
200	40	COG (ft):	X: .266	Y: 1.126	Z: .672			
201	41	N153A	-474.59	919.208	-2574.323	1.794	.328	.233
202	41	N171	-2732.788	1442.767	882.837	-1.725	-.371	-2.292
203	41	N185	2965.74	1735.83	1551.936	-2.281	.014	3.384
204	41	Totals:	-241.638	4097.804	-139.551			
205	41	COG (ft):	X: .266	Y: 1.126	Z: .672			
206	42	N153A	-362.317	899.065	-2569.572	1.71	.246	.185
207	42	N171	-2773.02	1470.4	840.387	-1.801	-.417	-2.376
208	42	N185	2995.188	1728.341	1486.398	-2.295	.067	3.344
209	42	Totals:	-140.149	4097.805	-242.787			
210	42	COG (ft):	X: .266	Y: 1.126	Z: .672			
211	43	N153A	-286.16	892.225	-2571.97	1.679	.192	.149
212	43	N171	-2751.079	1497.377	903.612	-1.833	-.371	-2.486
213	43	N185	3037.232	1708.204	1388.475	-2.294	.148	3.254
214	43	Totals:	-.008	4097.806	-279.883			
215	43	COG (ft):	X: .266	Y: 1.126	Z: .672			
216	44	N153A	-210.705	900.118	-2577.504	1.708	.136	.113
217	44	N171	-2700.56	1516.598	1003.958	-1.831	-.289	-2.582
218	44	N185	3050.309	1681.089	1332.65	-2.26	.191	3.15
219	44	Totals:	139.044	4097.805	-240.896			
220	44	COG (ft):	X: .266	Y: 1.126	Z: .672			
221	45	N153A	-103.092	920.378	-2586.137	1.788	.053	.068
222	45	N171	-2662.956	1523.453	1068.671	-1.816	-.235	-2.627
223	45	N185	3005.782	1653.973	1379.009	-2.183	.145	3.069
224	45	Totals:	239.734	4097.804	-138.457			
225	45	COG (ft):	X: .266	Y: 1.126	Z: .672			
226	46	N153A	-48.034	947.936	-2598.969	1.897	.009	.045
227	46	N171	-2620.563	1516.004	1132.037	-1.772	-.179	-2.621
228	46	N185	2945.886	1633.863	1466.907	-2.103	.067	3.021
229	46	Totals:	277.289	4097.803	-.025			
230	46	COG (ft):	X: .266	Y: 1.126	Z: .672			
231	47	N153A	-113.369	975.632	-2611.16	2.009	.056	.073
232	47	N171	-2556.749	1495.74	1222.946	-1.692	-.094	-2.576
233	47	N185	2911.744	1626.429	1527.71	-2.06	.017	3.009
234	47	Totals:	241.625	4097.801	139.496			
235	47	COG (ft):	X: .266	Y: 1.126	Z: .672			

Joint Reactions (By Combination) (Continued)

	LC	Joint Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
236	48	N153A	-225.62	995.702	-2616.048	2.093	.137	.121
237	48	N171	-2516.402	1468.153	1265.483	-1.616	-.048	-2.492
238	48	N185	2882.159	1633.945	1593.296	-2.046	-.036	3.049
239	48	Totals:	140.137	4097.8	242.732			
240	48	COG (ft):	X: .266	Y: 1.126	Z: .672			
241	49	N153A	643.223	1106.872	-2853.38	2.175	-.439	-.263
242	49	N171	-3332.92	1603.499	1992.2	-1.989	.034	-3.311
243	49	N185	2689.684	1012.42	861.166	-1.258	.388	1.604
244	49	Totals:	-.013	3722.792	-.014			
245	49	COG (ft):	X: -.706	Y: 1.24	Z: .358			
246	50	N153A	21.986	1034.229	-2549.721	2.143	-.021	.013
247	50	N171	-2451.052	1391.519	1301.086	-1.549	-.043	-2.492
248	50	N185	2429.058	1297.041	1248.623	-1.534	.049	2.338
249	50	Totals:	-.007	3722.789	-.012			
250	50	COG (ft):	X: -.076	Y: 1.24	Z: .358			
251	51	N153A	27.439	1329.211	-2995.476	2.799	-.026	.014
252	51	N171	-2574.551	1343.089	1530.145	-1.37	.016	-2.463
253	51	N185	2547.105	1233.44	1465.333	-1.354	-.008	2.284
254	51	Totals:	-.008	3905.741	.003			
255	51	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
256	52	N153A	18.396	1220.398	-2647.309	2.654	-.021	.015
257	52	N171	-2188.028	1164.164	1483.935	-1.106	.132	-2.132
258	52	N185	2169.626	1067.947	1425.261	-1.093	-.121	1.97
259	52	Totals:	-.006	3452.509	261.886			
260	52	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
261	53	N153A	-72.226	1214.066	-2644.836	2.631	.046	.054
262	53	N171	-2221.426	1147.709	1424.752	-1.097	.082	-2.058
263	53	N185	2162.718	1090.735	1446.877	-1.129	-.138	2.052
264	53	Totals:	-130.934	3452.509	226.793			
265	53	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
266	54	N153A	-137.051	1197.272	-2641.777	2.565	.095	.082
267	54	N171	-2268.193	1141.865	1345.498	-1.119	.014	-2.016
268	54	N185	2178.471	1113.372	1427.221	-1.183	-.119	2.124
269	54	Totals:	-226.774	3452.51	130.943			
270	54	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
271	55	N153A	-158.718	1174.497	-2639.011	2.474	.112	.092
272	55	N171	-2315.808	1148.207	1267.429	-1.165	-.054	-2.016
273	55	N185	2212.662	1129.808	1371.583	-1.241	-.071	2.168
274	55	Totals:	-261.863	3452.511	0			
275	55	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
276	56	N153A	-131.376	1151.837	-2637.272	2.382	.093	.08
277	56	N171	-2351.496	1165.025	1211.493	-1.223	-.104	-2.059
278	56	N185	2256.097	1135.65	1294.837	-1.286	-.006	2.171
279	56	Totals:	-226.775	3452.513	-130.941			
280	56	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
281	57	N153A	-62.347	1135.378	-2637.006	2.314	.042	.05
282	57	N171	-2365.726	1187.794	1192.684	-1.277	-.122	-2.133
283	57	N185	2297.136	1129.341	1217.532	-1.307	.059	2.133
284	57	Totals:	-130.936	3452.513	-226.79			
285	57	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
286	58	N153A	29.881	1129.542	-2638.273	2.288	-.026	.01
287	58	N171	-2354.723	1210.41	1216.028	-1.313	-.104	-2.218
288	58	N185	2324.834	1112.561	1160.364	-1.298	.106	2.063
289	58	Totals:	-.008	3452.514	-261.882			
290	58	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
291	59	N153A	120.563	1135.904	-2640.697	2.312	-.093	-.03
292	59	N171	-2321.4	1226.82	1275.239	-1.321	-.055	-2.291
293	59	N185	2331.757	1089.79	1138.67	-1.261	.123	1.981
294	59	Totals:	130.92	3452.513	-226.788			

Joint Reactions (By Combination) (Continued)

	LC	Joint Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
295	59	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
296	60	N153A	185.376	1152.743	-2643.661	2.378	-.142	-.058
297	60	N171	-2274.68	1232.645	1354.433	-1.3	.013	-2.334
298	60	N185	2316.065	1067.124	1158.29	-1.207	.105	1.909
299	60	Totals:	226.76	3452.512	-130.938			
300	60	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
301	61	N153A	206.968	1175.534	-2646.4	2.469	-.159	-.067
302	61	N171	-2227.052	1226.332	1432.425	-1.254	.081	-2.333
303	61	N185	2281.933	1050.645	1213.979	-1.15	.057	1.865
304	61	Totals:	261.849	3452.511	.004			
305	61	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
306	62	N153A	179.564	1198.165	-2648.172	2.561	-.139	-.055
307	62	N171	-2191.273	1209.559	1488.324	-1.196	.131	-2.29
308	62	N185	2238.47	1044.786	1290.794	-1.104	-.009	1.862
309	62	Totals:	226.761	3452.51	130.946			
310	62	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
311	63	N153A	110.55	1214.578	-2648.533	2.628	-.089	-.025
312	63	N171	-2176.997	1186.808	1507.193	-1.142	.15	-2.217
313	63	N185	2197.369	1051.123	1368.135	-1.083	-.074	1.9
314	63	Totals:	130.922	3452.509	226.795			
315	63	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
316	64	N153A	10.809	864.682	-1837.281	1.901	-.014	.011
317	64	N171	-1493.293	804.224	1070.085	-.737	.127	-1.469
318	64	N185	1482.481	737.192	1029.081	-.729	-.118	1.355
319	64	Totals:	-.004	2406.097	261.885			
320	64	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
321	65	N153A	-79.375	858.322	-1834.873	1.877	.053	.05
322	65	N171	-1526.855	787.621	1011.314	-.729	.078	-1.396
323	65	N185	1475.298	760.154	1050.351	-.765	-.135	1.437
324	65	Totals:	-130.932	2406.097	226.792			
325	65	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
326	66	N153A	-143.858	841.409	-1832.114	1.812	.102	.078
327	66	N171	-1573.566	781.714	932.506	-.751	.01	-1.354
328	66	N185	1490.652	782.975	1030.549	-.82	-.117	1.509
329	66	Totals:	-226.772	2406.098	130.942			
330	66	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
331	67	N153A	-165.37	818.456	-1829.768	1.721	.119	.088
332	67	N171	-1620.897	788.089	854.781	-.797	-.058	-1.354
333	67	N185	1524.406	799.554	974.987	-.877	-.069	1.553
334	67	Totals:	-261.861	2406.1	0			
335	67	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
336	68	N153A	-138.103	795.609	-1828.476	1.629	.099	.076
337	68	N171	-1656.164	805.032	799.003	-.854	-.108	-1.397
338	68	N185	1567.494	805.459	898.53	-.922	-.004	1.556
339	68	Totals:	-226.773	2406.101	-130.942			
340	68	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
341	69	N153A	-69.358	779.001	-1828.564	1.561	.049	.046
342	69	N171	-1669.946	827.983	780.125	-.908	-.126	-1.471
343	69	N185	1608.371	799.118	821.648	-.942	.061	1.518
344	69	Totals:	-130.934	2406.102	-226.791			
345	69	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
346	70	N153A	22.451	773.094	-1829.981	1.536	-.018	.006
347	70	N171	-1658.575	850.791	803.182	-.944	-.108	-1.555
348	70	N185	1636.118	782.217	764.917	-.933	.108	1.449
349	70	Totals:	-.006	2406.102	-261.882			
350	70	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
351	71	N153A	112.695	779.482	-1832.343	1.559	-.086	-.033
352	71	N171	-1625.091	867.349	861.981	-.952	-.059	-1.629
353	71	N185	1643.319	759.27	743.573	-.897	.125	1.367

Joint Reactions (By Combination) (Continued)

	LC	Joint Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
354	71	Totals:	130.922	2406.101	-226.789			
355	71	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
356	72	N153A	177.164	796.437	-1835.023	1.625	-.134	-.061
357	72	N171	-1578.436	873.241	940.737	-.931	.009	-1.671
358	72	N185	1628.034	736.423	763.348	-.843	.107	1.294
359	72	Totals:	226.762	2406.1	-130.939			
360	72	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
361	73	N153A	198.604	819.405	-1837.342	1.716	-.151	-.07
362	73	N171	-1531.092	866.892	1018.386	-.885	.077	-1.67
363	73	N185	1594.34	719.802	818.96	-.785	.059	1.251
364	73	Totals:	261.852	2406.099	.004			
365	73	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
366	74	N153A	171.277	842.225	-1838.684	1.807	-.132	-.058
367	74	N171	-1495.751	849.992	1074.137	-.827	.126	-1.627
368	74	N185	1551.238	713.881	895.492	-.74	-.007	1.248
369	74	Totals:	226.763	2406.098	130.945			
370	74	COG (ft):	X: -.085	Y: 1.379	Z: -.025			
371	75	N153A	102.546	858.79	-1838.672	1.875	-.082	-.029
372	75	N171	-1481.909	827.058	1093.066	-.773	.145	-1.554
373	75	N185	1510.287	720.249	972.4	-.72	-.071	1.286
374	75	Totals:	130.924	2406.097	226.794			
375	75	COG (ft):	X: -.085	Y: 1.379	Z: -.025			

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

	Member	Shape	Code C...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-...	phi*Mn z-...	Cb	Eqn
1	M73	C5X6.7	.374	11.849	2	.780	6.51	y	14	4719.057	63828	1.604	8.501	1....	H1-1b
2	M74	C5X6.7	.372	.651	10	.772	5.99	y	22	4719.057	63828	1.604	8.503	1....	H1-1b
3	M75	C5X6.7	.376	11.849	6	.788	6.51	y	18	4719.057	63828	1.604	8.548	1....	H1-1b
4	M76	HSS4X4X3	.867	0	24	.375	0	z	4	74439.178	83592	9.909	9.909	2....	H1-1b
5	M77	L4X4X4	.809	2.806	13	.050	2.806	z	23	41308.367	62532	3.138	6.135	1....	H2-1
6	M78	PL1/4x3.5	.969	0	13	.089	.405	y	4	22817.529	28350	.149	2.068	2....	H1-1b
7	M79	PL1/4x3.5	.896	.405	13	.093	0	y	10	22817.512	28350	.149	2.068	2....	H1-1b
8	M84	PL1/2x9	.393	.607	24	.347	.607	y	21	85244.17	145800	1.519	27.338	1....	H1-1b
9	M85	HSS4X4X3	.871	0	23	.387	0	z	12	74439.178	83592	9.909	9.909	2....	H1-1b
10	M86	L4X4X4	.822	2.806	21	.050	2.806	z	19	41308.367	62532	3.138	6.134	1....	H2-1
11	M87	PL1/4x3.5	.976	0	21	.091	.405	y	12	22817.526	28350	.149	2.068	2....	H1-1b
12	M88	PL1/4x3.5	.909	.405	21	.092	0	y	6	22817.529	28350	.149	2.068	2....	H1-1b
13	M93	PL1/2x9	.392	.607	20	.354	.607	y	17	85244.17	145800	1.519	27.338	1....	H1-1b
14	M94	HSS4X4X3	.827	0	16	.359	0	z	8	74439.178	83592	9.909	9.909	2....	H1-1b
15	M95	L4X4X4	.798	2.806	17	.049	2.806	z	15	41308.367	62532	3.138	6.135	1....	H2-1
16	M96	PL1/4x3.5	.939	0	17	.089	.405	y	8	22817.512	28350	.149	2.068	2....	H1-1b
17	M97	PL1/4x3.5	.877	.405	17	.090	0	y	2	22817.526	28350	.149	2.068	2....	H1-1b
18	M102	PL1/2x9	.384	.607	17	.343	.607	y	13	85244.17	145800	1.519	27.338	1....	H1-1b
19	M103	L3X3X4	.447	8.059	7	.088	11.64	z	18	5126.955	46656	1.688	2.804	1....	H2-1
20	M104	L3X3X4	.448	8.059	3	.087	.64	z	18	5126.955	46656	1.688	2.816	1....	H2-1
21	M105	L3X3X4	.452	8.059	11	.089	11.64	z	22	5126.955	46656	1.688	2.811	1....	H2-1
22	M106	PL1/2x6	.076	0	9	.124	0	y	4	64982.285	97200	1.012	12.15	1....	H1-1b
23	M107	PL1/2x6	.078	0	5	.125	0	y	12	64982.285	97200	1.012	12.15	1....	H1-1b
24	M108	PL1/2x6	.077	0	1	.119	0	y	8	64982.285	97200	1.012	12.15	1....	H1-1b
25	MP4A	PIPE_2.0	.554	4.813	10	.108	4.813		11	17855.085	32130	1.872	1.872	2....	H1-1b
26	MP3A	PIPE_2.0	.614	4.813	10	.106	4.813		6	17855.085	32130	1.872	1.872	2....	H1-1b
27	MP2A	PIPE_2.0	.628	4.813	10	.108	2.479		12	17855.085	32130	1.872	1.872	2....	H1-1b
28	MP1A	PIPE_2.0	.588	4.813	4	.113	1.677		3	17855.085	32130	1.872	1.872	2....	H1-1b
29	MP4C	PIPE_2.0	.555	4.813	6	.106	4.813		1	17855.085	32130	1.872	1.872	2....	H1-1b
30	MP3C	PIPE_2.0	.606	4.813	6	.101	4.813		2	17855.085	32130	1.872	1.872	2....	H1-1b
31	MP2C	PIPE_2.0	.635	4.813	6	.105	2.479		8	17855.085	32130	1.872	1.872	2....	H1-1b
32	MP1C	PIPE_2.0	.585	4.813	12	.112	1.677		11	17855.085	32130	1.872	1.872	2....	H1-1b

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

	Member	Shape	Code C...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-...	phi*Mn z-...	Cb	Eqn
33	MP4B	PIPE_2.0	.554	4.813	2	.107	4.813		3	17855.085	32130	1.872	1.872	2....	H1-1b
34	MP3B	PIPE_2.0	.615	4.813	2	.106	4.813		10	17855.085	32130	1.872	1.872	2....	H1-1b
35	MP2B	PIPE_2.0	.630	4.813	2	.107	2.479		4	17855.085	32130	1.872	1.872	2....	H1-1b
36	MP1B	PIPE_2.0	.580	4.813	8	.113	1.677		7	17855.085	32130	1.872	1.872	2....	H1-1b
37	OVP1	PIPE_2.0	.061	2	1	.012	2		1	28843.414	32130	1.872	1.872	1	H1-1b
38	OVP	PIPE_2.0	.060	2	7	.012	2		7	28843.414	32130	1.872	1.872	2....	H1-1b

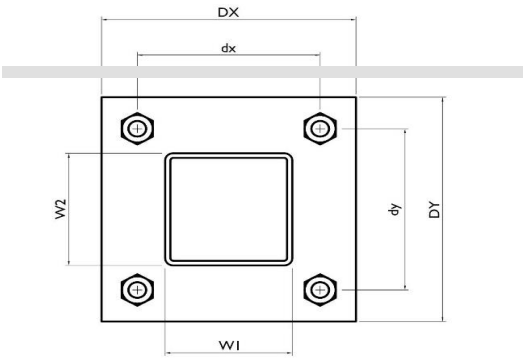
VzW SMART Tool© Vendor

Client:	Verizon Wireless	Date:	5/14/2024
Site Name:	STAFFORD CT		
MDG #:	5000244500		
Fuze ID #:	17123859	Page:	1

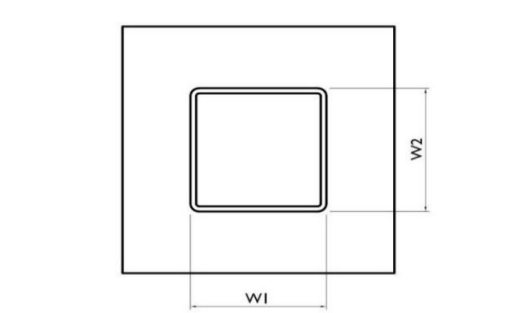
Version 2.00

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):	0.75
Required Tensile Strength / bolt (kips):	5.8
Required Shear Strength / bolt (kips):	1.8
Tensile Capacity / bolt (kips):	29.8
Shear Capacity / bolt (kips):	17.9
Bolt Overall Utilization:	**20.9%**



Tower Connection Baseplate Checks	Yes
Connecting Standoff Member Shape:	Rect Tube
Weld Stiffener Configuration:	No Stiffeners
Plate Width, D_x (in):	8
Plate Height, D_y (in):	8
W1(in):	4
W2 (in):	4
Member Thickness (in):	0.18
Stiffener location a_1 (in):	
Stiffener location b_1 (in):	
Stiffener location a_2 (in):	
Stiffener location b_2 (in):	
F_y (ksi, plate):	36
Plate Thickness (in):	0.75
Length of Yield Line, L_y (in):	5.80
Bolt Eccentricity, e (in):	1.58
M_u (kip-in):	9.85
Phi*M_n (kip-in):	26.41
Plate Bending Utilization:	**37.3%**



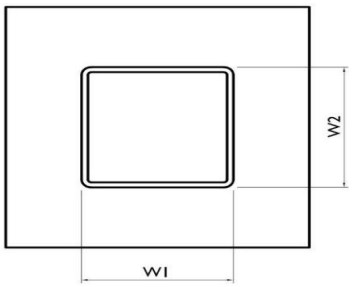
VzW SMART Tool© Vendor

Client:	Verizon Wireless	Date:	5/14/2024
Site Name:	STAFFORD CT		
MDG #:	5000244500		
Fuze ID #:	17123859	Page:	2

Version 2.00

Tower Connection Weld Checks

	Yes
Weld Shape:	Rectangle
Weld Stiffener Configuration:	None
Stiffener Notch Length, n (in):	-
Weld Size (1/16 in):	4
W1 (in):	4
W2 (in):	4
Weld Total Length (in):	16.00
Z_x (in^3/in):	21.33
Z_y (in^3/in):	21.33
J_p (in^4/in):	85.33
c_x (in)	2.18
c_y (in)	2.18
Required combined strength (kip/in):	2.76
Weld Capacity (kip/in):	5.57
Weld Utilization:	**49.6%**



Date: **January 18, 2024**

MORRISON HERSHFIELD

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

Subject:	**Structural Analysis Report**	
Carrier Designation:	***Verizon Wireless* Co-Locate**	
	Site Number:	5000244500
	Site Name:	Stafford CT
Crown Castle Designation:	**BU Number:**	806365
	Site Name:	HRT 303 943203
	JDE Job Number:	751330
	Work Order Number:	2278727
	Order Number:	654595 Rev. 0
Engineering Firm Designation:	**Morrison Hershfield Project Number:** CN13-116 / 2400001	
Site Data:	**46 Brendan St, Stafford Springs, Tolland County, CT 06076**	
	Latitude *41° 57' 51.2"*, Longitude *-72° 18' 17.8"*	
	129 Foot – Valmont Monopole Tower	

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

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

LC5: Proposed Equipment Configuration **Sufficient Capacity-86.9%**

This analysis utilizes an ultimate 3-second gust wind speed of 118 mph as required by the 2022 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Respectfully submitted by:

STATE OF CONNECTICUT
G. LANCE COOKE
No. 28133
LICENSED PROFESSIONAL ENGINEER
EXP 1/31/25

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

G Lance Cooke
2024.01.18
07:37:55-08'00'

TABLE OF CONTENTS

1) INTRODUCTION

This tower is a 129 ft Monopole tower designed by Valmont Industries, Inc.

The tower was modified multiple times in the past to accommodate additional loading. All the modifications were considered in this analysis per their respective post modification inspection reports.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	118 mph
Exposure Category:	C
Topographic Factor:	1
Ice Thickness:	1.5 in
Wind Speed with Ice:	50 mph
Service Wind Speed:	60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
116.0	118.0	2	raycap	RVZDC-6627-PF-48_CCIV2	6 2	7/8 1-5/8
	116.0	3	samsung telecommunications	MT6407-77A_CCIV2 w/ Mount Pipe		
		3	commscope	NHH-65B-R2B		
		3	commscope	NHHSS-65B-R2BT4		
		3	andrew	LNX-8514DS-A1M w/ Mount Pipe		
		4	kaelus	BSF0020F3V1		
		3	samsung telecommunications	CBRS RT4401-48A		
		3	samsung telecommunications	RF4439D-25A		
		3	samsung telecommunications	RF4440D-13A		
		3	-	Side by Side Antenna Mount		
		1	-	Platform Mount [LP 713-1]		

Table 2 - Other Considered Equipment

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
126.0	126.0	4	ericsson	RADIO 4449 B71 B85A_T-MOBILE	7	1-5/8
		4	ericsson	RADIO 4460 B2/B25 B66_TMO		
		1	-	Platform Mount [LP 701-1_HR-1]		
	125.0	4	ericsson	AIR6449 B41_T-MOBILE w/ Mount Pipe		
		4	Rfs/celwave	APXVAARR24_43-U-NA20 w/ Mount Pipe		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
105.0	105.0	3	rfs/celwave	APXVTM14-ALU-I20 w/ Mount Pipe	3 1	1-1/4 7/8
		3	commscope	NNVV-65B-R4 w/ Mount Pipe		
		6	alcatel lucent	RRH2X50-800		
		3	alcatel lucent	PCS 1900MHZ 4X45W-65MHZ		
		3	nokia	FZHN		
		1	-	Platform Mount [LP 1201-1_HR-1]		
94.0	95.0	3	cci antennas	HPA65R-BU8A w/ Mount Pipe	12 4 2 1	1-1/4 3/4 3/8 2C
		3	kathrein	80010966 w/ Mount Pipe		
		3	powerwave technologies	7770.00 w/ Mount Pipe		
		5	ericsson	RRUS 8843 B2/B66A		
		3	ericsson	RRUS 4449 B5/B12		
		3	powerwave technologies	LGP13519		
		2	raycap	DC6-48-60-18-8F		
	94.0	1	-	Miscellaneous [NA 510-1]		
		1	-	Platform Mount [LP 714-1_KCKR]		
60.0	60.0	1	gps	GPS_A	1	1/2
		1	-	Side Arm Mount [SO 702-1]		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
4-GEOTECHNICAL REPORTS	262167	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	2294383	CCISITES
4-TOWER MANUFACTURER DRAWINGS	2046046	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	5577072	CCISITES
4-POST-MODIFICATION INSPECTION	5734218	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	5664687	CCISITES
4-POST-MODIFICATION INSPECTION	6133277	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	7700293	CCISITES
4-POST-MODIFICATION INSPECTION	8353227	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 pole and 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. Morrison Hershfield should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
L1	129 - 124	Pole	TP16x16x0.375	Pole	7.0	Pass
L2	124 - 119	Pole	TP16x16x0.375	Pole	20.9	Pass
L3	119 - 115.5	Pole	TP16x16x0.375	Pole	33.1	Pass
L4	115.5 - 115	Pole	TP17.81x16x0.375	Pole	28.7	Pass
L5	115 - 110	Pole	TP18.96x17.81x0.2188	Pole	41.3	Pass
L6	110 - 105	Pole	TP20.111x18.96x0.2188	Pole	54.9	Pass
L7	105 - 100	Pole	TP21.261x20.111x0.2188	Pole	71.8	Pass
L8	100 - 95	Pole	TP22.411x21.261x0.2188	Pole	85.6	Pass
L9	95 - 94.5	Pole	TP22.526x22.411x0.2188	Pole	86.9	Pass
L10	94.5 - 94.25	Pole + Reinf.	TP22.584x22.526x0.4375	Reinf. 14 Tension Rupture	71.0	Pass
L11	94.25 - 92.083	Pole + Reinf.	TP23.082x22.584x0.4313	Reinf. 14 Tension Rupture	78.0	Pass
L12	92.083 - 91.833	Pole + Reinf.	TP23.14x23.082x0.6563	Reinf. 9 Tension Rupture	53.3	Pass
L13	91.833 - 86.833	Pole + Reinf.	TP24.29x23.14x0.6313	Reinf. 9 Tension Rupture	62.9	Pass
L14	86.833 - 81.833	Pole + Reinf.	TP25.44x24.29x0.6063	Reinf. 9 Tension Rupture	71.6	Pass
L15	81.833 - 73.75	Pole + Reinf.	TP27.3x25.44x0.5938	Reinf. 9 Tension Rupture	77.7	Pass
L16	73.75 - 73	Pole + Reinf.	TP27.033x25.885x0.6875	Reinf. 9 Tension Rupture	74.8	Pass
L17	73 - 71.5	Pole + Reinf.	TP27.378x27.033x0.675	Reinf. 9 Tension Rupture	76.5	Pass
L18	71.5 - 71.25	Pole + Reinf.	TP27.435x27.378x0.7375	Reinf. 14 Tension Rupture	70.5	Pass
L19	71.25 - 68.33	Pole + Reinf.	TP28.106x27.435x0.725	Reinf. 14 Tension Rupture	73.5	Pass
L20	68.33 - 68.08	Pole + Reinf.	TP28.163x28.106x0.7375	Reinf. 14 Tension Rupture	73.6	Pass
L21	68.08 - 67.9167	Pole + Reinf.	TP28.201x28.163x0.7375	Reinf. 14 Tension Rupture	73.8	Pass
L22	67.9167 - 67.6667	Pole + Reinf.	TP28.258x28.201x1.0875	Reinf. 14 Tension Rupture	51.7	Pass
L23	67.6667 - 67.5	Pole + Reinf.	TP28.297x28.258x1.0875	Reinf. 14 Tension Rupture	51.8	Pass
L24	67.5 - 67.25	Pole + Reinf.	TP28.354x28.297x0.8875	Reinf. 8 Tension Rupture	56.8	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
L25	67.25 - 66.33	Pole + Reinf.	TP28.565x28.354x0.875	Reinf. 8 Tension Rupture	57.5	Pass
L26	66.33 - 66.08	Pole + Reinf.	TP28.623x28.565x1.0375	Reinf. 8 Tension Rupture	53.8	Pass
L27	66.08 - 61.08	Pole + Reinf.	TP29.771x28.623x0.9875	Reinf. 8 Tension Rupture	57.3	Pass
L28	61.08 - 56.5	Pole + Reinf.	TP30.823x29.771x0.9625	Reinf. 8 Tension Rupture	60.3	Pass
L29	56.5 - 56.25	Pole + Reinf.	TP30.881x30.823x0.9625	Reinf. 2 Tension Rupture	60.5	Pass
L30	56.25 - 51.25	Pole + Reinf.	TP32.029x30.881x0.9375	Reinf. 2 Tension Rupture	63.5	Pass
L31	51.25 - 46.25	Pole + Reinf.	TP33.178x32.029x0.9125	Reinf. 2 Tension Rupture	66.4	Pass
L32	46.25 - 36.75	Pole + Reinf.	TP35.36x33.178x0.8875	Reinf. 2 Tension Rupture	68.6	Pass
L33	36.75 - 35.75	Pole + Reinf.	TP34.968x33.529x0.8125	Reinf. 7 Tension Rupture	73.1	Pass
L34	35.75 - 31.25	Pole + Reinf.	TP36.004x34.968x0.8	Reinf. 7 Tension Rupture	74.8	Pass
L35	31.25 - 31	Pole + Reinf.	TP36.062x36.004x0.8625	Reinf. 7 Tension Rupture	70.4	Pass
L36	31 - 26	Pole + Reinf.	TP37.213x36.062x0.8375	Reinf. 7 Tension Rupture	72.2	Pass
L37	26 - 22	Pole + Reinf.	TP38.134x37.213x0.825	Reinf. 7 Tension Rupture	73.5	Pass
L38	22 - 21.75	Pole + Reinf.	TP38.192x38.134x0.9375	Reinf. 7 Tension Rupture	69.6	Pass
L39	21.75 - 19.0833	Pole + Reinf.	TP38.806x38.192x0.925	Reinf. 7 Tension Rupture	70.4	Pass
L40	19.0833 - 18.8333	Pole + Reinf.	TP38.863x38.806x0.875	Reinf. 7 Tension Rupture	70.8	Pass
L41	18.8333 - 18	Pole + Reinf.	TP39.055x38.863x0.875	Reinf. 7 Tension Rupture	71.0	Pass
L42	18 - 17.75	Pole + Reinf.	TP39.113x39.055x1	Reinf. 1 Tension Rupture	63.1	Pass
L43	17.75 - 17	Pole + Reinf.	TP39.286x39.113x1	Reinf. 1 Tension Rupture	63.3	Pass
L44	17 - 16.75	Pole + Reinf.	TP39.343x39.286x1	Reinf. 1 Tension Rupture	63.3	Pass
L45	16.75 - 11.75	Pole + Reinf.	TP40.494x39.343x0.975	Reinf. 1 Tension Rupture	64.7	Pass
L46	11.75 - 6.75	Pole + Reinf.	TP41.646x40.494x0.95	Reinf. 1 Tension Rupture	65.9	Pass
L47	6.75 - 4	Pole + Reinf.	TP42.279x41.646x0.95	Reinf. 1 Tension Rupture	66.5	Pass
L48	4 - 3.75	Pole + Reinf.	TP42.337x42.279x0.95	Reinf. 1 Tension Rupture	65.6	Pass
L49	3.75 - 3	Pole + Reinf.	TP42.509x42.337x0.95	Reinf. 1 Tension Rupture	65.8	Pass
L50	3 - 2.75	Pole + Reinf.	TP42.567x42.509x1.05	Reinf. 3 Tension Yield	55.8	Pass
L51	2.75 - 0	Pole + Reinf.	TP43.2x42.567x1.05	Reinf. 3 Tension Yield	56.4	Pass
					Summary	
				Pole	86.9	Pass
				Reinforcement	78.0	Pass
				Overall	86.9	Pass

Table 5 - Tower Component Stresses vs. Capacity – LC5

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Extension Connection	115	19.7	Pass
1	Anchor Rods	0	76.2	Pass
1	Base Plate		46.3	Pass
1	Base Foundation (Structure)	0	76.7	Pass
1	Base Foundation (Soil Interaction)		25.9	Pass

Structure Rating (max from all components) =	86.9%*

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

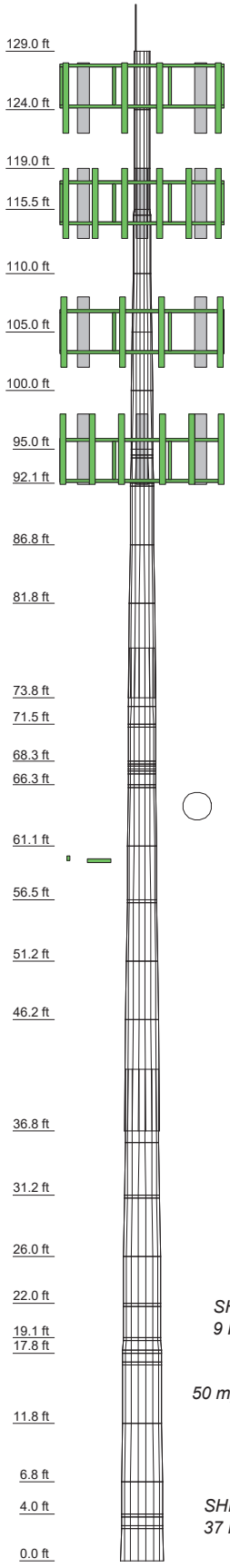
4.1) Recommendations

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

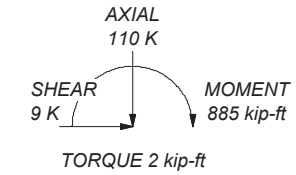
APPENDIX A

TNXTOWER OUTPUT

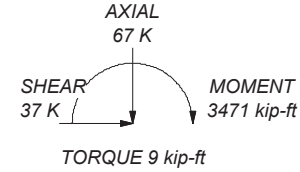
Section	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
Length (ft)	5.00	5.00	3.50	3.75	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.08	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	4.58	5.00	5.00	5.00	9.50	5.00	4.50	5.00	5.00	4.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	2.76
Number of Sides	0	0	0	0	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Thickness (in)	0.3750	0.3750	0.3750	0.3750	0.2188	0.2188	0.2188	0.2188	0.2188	0.2188	0.2188	0.2188	0.6312	0.6062	0.5938	0.5625	0.5312	0.5000	0.4688	0.4375	0.4062	0.3750	0.3438	0.3125	0.2812	0.2500	0.9875	0.9625	0.9375	0.9125	0.8875	0.8625	0.8125	0.8000	0.8375	0.8250	0.8125	0.8000	0.7875	0.7750	0.7625	0.7500	0.9750	0.9500	0.9500	0.9500	0.9500	0.9500	1.0500
Socket Length (ft)															4.25																	5.25																				
Top Dia (in)	16.0000	16.0000	16.0000	16.0000	17.8106	18.9603	20.1106	21.2609	22.4112	23.5615	24.7118	25.8621	23.1390	24.2901	25.4404	26.5907	27.7410	28.8913	30.0416	31.1919	32.3422	33.4925	34.6428	35.7931	36.9434	38.0937	28.6225	29.7726	30.9227	32.0728	33.2229	34.3730	35.5231	36.6732	37.8233	38.9734	40.1235	41.2736	42.4237	43.5738	44.7239	45.8740	39.3437	40.4944	41.6457	42.7970	43.9483	45.0996	46.2509
Bot Dia (in)	16.0000	16.0000	16.0000	16.0000	18.9603	20.1106	21.2609	22.4112	23.5615	24.7118	25.8621	27.0124	24.2901	25.4404	26.5907	27.7410	28.8913	30.0416	31.1919	32.3422	33.4925	34.6428	35.7931	36.9434	38.0937	39.2440	29.7726	30.9227	32.0728	33.2229	34.3730	35.5231	36.6732	37.8233	38.9734	40.1235	41.2736	42.4237	43.5738	44.7239	45.8740	46.9241	40.4944	41.6457	42.7970	43.9483	45.0996	46.2509	47.4022
Grade	A53-B-35																										A572-65																										
Weight (K)	0.3	0.3	0.2	0.0	0.2	0.2	0.2	0.3	0.0	0.2	0.0	0.7	0.7	0.7	1.3	0.9	0.6	1.4	0.0	1.6	0.0	1.4	0.0	1.6	0.1	1.4	1.6	1.4	0.1	1.6	1.6	3.2	1.8	1.3	0.1	1.7	1.4	1.1	0.0	2.1	0.0	2.1	2.1	2.1	1.2	1.2	1.2	1.2	1.2	1.2	32.0



ALL REACTIONS ARE FACTORED



TORQUE 2 kip-ft
50 mph WIND - 1.5000 in ICE



TORQUE 9 kip-ft
REACTIONS - 118 mph WIND

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A53-B-35	35 ksi	63 ksi	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 118 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. CCIPOLE RATING:86.9%

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Atlanta, GA 30346
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FAX: (770) 379-8500

Job:	CN13-116 / 2400001		
Project:	806365 / HRT 303 943203		
Client: Crown Castle USA		Drawn by: RBA	App'd:
Code: TIA-222-H		Date: 01/18/24	Scale: NTS
Path:			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: 754.00 ft.
Basic wind speed of 118 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 1.5000 in.
Ice thickness is considered to increase with height.
Ice density of 56 pcf.
A wind speed of 50 mph is used in combination with ice.
Temperature drop of 50 °F.
Deflections calculated using a wind speed of 60 mph.
A non-linear (P-delta) analysis was used.
Pressures are calculated at each section.
Stress ratio used in pole design is 1.
Tower analysis based on target reliabilities in accordance with Annex S.
Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
Maximum demand-capacity ratio is: 1.05.
Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

	Consider Moments - Legs		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*	*Section Length*	*Splice Length*	*Number of Sides*	*Top Diameter*	*Bottom Diameter*	*Wall Thickness*	*Bend Radius*	*Pole Grade*
	ft	*ft*	*ft*		*in*	*in*	*in*	*in*	
L1	129.00-124.00	5.00	0.00	Round	16.0000	16.0000	0.3750		A53-B-35 (35 ksi)
L2	124.00-119.00	5.00	0.00	Round	16.0000	16.0000	0.3750		A53-B-35 (35 ksi)
L3	119.00-115.50	3.50	0.00	Round	16.0000	16.0000	0.3750		A53-B-35 (35 ksi)
L4	115.50-115.00	0.50	0.00	Round	16.0000	17.8100	0.3750		A53-B-35

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
L5	115.00-110.00	5.00	0.00	12	17.8100	18.9603	0.2188	0.8750	(35 ksi) A572-65 (65 ksi)
L6	110.00-105.00	5.00	0.00	12	18.9603	20.1106	0.2188	0.8750	A572-65 (65 ksi)
L7	105.00-100.00	5.00	0.00	12	20.1106	21.2609	0.2188	0.8750	A572-65 (65 ksi)
L8	100.00-95.00	5.00	0.00	12	21.2609	22.4112	0.2188	0.8750	A572-65 (65 ksi)
L9	95.00-94.50	0.50	0.00	12	22.4112	22.5262	0.2188	0.8750	A572-65 (65 ksi)
L10	94.50-94.25	0.25	0.00	12	22.5262	22.5838	0.4375	1.7500	A572-65 (65 ksi)
L11	94.25-92.08	2.17	0.00	12	22.5838	23.0823	0.4313	1.7250	A572-65 (65 ksi)
L12	92.08-91.83	0.25	0.00	12	23.0823	23.1398	0.6562	2.6250	A572-65 (65 ksi)
L13	91.83-86.83	5.00	0.00	12	23.1398	24.2901	0.6312	2.5250	A572-65 (65 ksi)
L14	86.83-81.83	5.00	0.00	12	24.2901	25.4404	0.6062	2.4250	A572-65 (65 ksi)
L15	81.83-73.75	8.08	4.25	12	25.4404	27.3000	0.5938	2.3750	A572-65 (65 ksi)
L16	73.75-73.00	5.00	0.00	12	25.8847	27.0333	0.6875	2.7500	A572-65 (65 ksi)
L17	73.00-71.50	1.50	0.00	12	27.0333	27.3778	0.6750	2.7000	A572-65 (65 ksi)
L18	71.50-71.25	0.25	0.00	12	27.3778	27.4352	0.7375	2.9500	A572-65 (65 ksi)
L19	71.25-68.33	2.92	0.00	12	27.4352	28.1060	0.7250	2.9000	A572-65 (65 ksi)
L20	68.33-68.08	0.25	0.00	12	28.1060	28.1634	0.7375	2.9500	A572-65 (65 ksi)
L21	68.08-67.92	0.16	0.00	12	28.1634	28.2009	0.7375	2.9500	A572-65 (65 ksi)
L22	67.92-67.67	0.25	0.00	12	28.2009	28.2583	1.0875	4.3500	A572-65 (65 ksi)
L23	67.67-67.50	0.17	0.00	12	28.2583	28.2966	1.0875	4.3500	A572-65 (65 ksi)
L24	67.50-67.25	0.25	0.00	12	28.2966	28.3541	0.8875	3.5500	A572-65 (65 ksi)
L25	67.25-66.33	0.92	0.00	12	28.3541	28.5654	0.8750	3.5000	A572-65 (65 ksi)
L26	66.33-66.08	0.25	0.00	12	28.5654	28.6228	1.0375	4.1500	A572-65 (65 ksi)
L27	66.08-61.08	5.00	0.00	12	28.6228	29.7713	0.9875	3.9500	A572-65 (65 ksi)
L28	61.08-56.50	4.58	0.00	12	29.7713	30.8234	0.9625	3.8500	A572-65 (65 ksi)
L29	56.50-56.25	0.25	0.00	12	30.8234	30.8808	0.9625	3.8500	A572-65 (65 ksi)
L30	56.25-51.25	5.00	0.00	12	30.8808	32.0293	0.9375	3.7500	A572-65 (65 ksi)
L31	51.25-46.25	5.00	0.00	12	32.0293	33.1778	0.9125	3.6500	A572-65 (65 ksi)
L32	46.25-36.75	9.50	5.25	12	33.1778	35.3600	0.8875	3.5500	A572-65 (65 ksi)
L33	36.75-35.75	6.25	0.00	12	33.5291	34.9682	0.8125	3.2500	A572-65 (65 ksi)
L34	35.75-31.25	4.50	0.00	12	34.9682	36.0044	0.8000	3.2000	A572-65 (65 ksi)
L35	31.25-31.00	0.25	0.00	12	36.0044	36.0619	0.8625	3.4500	A572-65 (65 ksi)
L36	31.00-26.00	5.00	0.00	12	36.0619	37.2132	0.8375	3.3500	A572-65 (65 ksi)
L37	26.00-22.00	4.00	0.00	12	37.2132	38.1343	0.8250	3.3000	A572-65 (65 ksi)
L38	22.00-21.75	0.25	0.00	12	38.1343	38.1918	0.9375	3.7500	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
L39	21.75-19.08	2.67	0.00	12	38.1918	38.8059	0.9250	3.7000	A572-65 (65 ksi)
L40	19.08-18.83	0.25	0.00	12	38.8059	38.8634	0.8750	3.5000	A572-65 (65 ksi)
L41	18.83-18.00	0.83	0.00	12	38.8634	39.0553	0.8750	3.5000	A572-65 (65 ksi)
L42	18.00-17.75	0.25	0.00	12	39.0553	39.1129	1.0000	4.0000	A572-65 (65 ksi)
L43	17.75-17.00	0.75	0.00	12	39.1129	39.2856	1.0000	4.0000	A572-65 (65 ksi)
L44	17.00-16.75	0.25	0.00	12	39.2856	39.3431	1.0000	4.0000	A572-65 (65 ksi)
L45	16.75-11.75	5.00	0.00	12	39.3431	40.4944	0.9750	3.9000	A572-65 (65 ksi)
L46	11.75-6.75	5.00	0.00	12	40.4944	41.6457	0.9500	3.8000	A572-65 (65 ksi)
L47	6.75-4.00	2.75	0.00	12	41.6457	42.2790	0.9500	3.8000	A572-65 (65 ksi)
L48	4.00-3.75	0.25	0.00	12	42.2790	42.3365	0.9500	3.8000	A572-65 (65 ksi)
L49	3.75-3.00	0.75	0.00	12	42.3365	42.5092	0.9500	3.8000	A572-65 (65 ksi)
L50	3.00-2.75	0.25	0.00	12	42.5092	42.5668	1.0500	4.2000	A572-65 (65 ksi)
L51	2.75-0.00	2.75		12	42.5668	43.2000	1.0500	4.2000	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	16.0000	18.4078	562.0841	5.5259	8.0000	70.2605	1124.1682	9.1984	0.0000	0
	16.0000	18.4078	562.0841	5.5259	8.0000	70.2605	1124.1682	9.1984	0.0000	0
L2	16.0000	18.4078	562.0841	5.5259	8.0000	70.2605	1124.1682	9.1984	0.0000	0
	16.0000	18.4078	562.0841	5.5259	8.0000	70.2605	1124.1682	9.1984	0.0000	0
L3	16.0000	18.4078	562.0841	5.5259	8.0000	70.2605	1124.1682	9.1984	0.0000	0
	16.0000	18.4078	562.0841	5.5259	8.0000	70.2605	1124.1682	9.1984	0.0000	0
L4	16.0000	18.4078	562.0841	5.5259	8.0000	70.2605	1124.1682	9.1984	0.0000	0
	17.8100	20.5401	780.8325	6.1656	8.9050	87.6847	1561.6650	10.2639	0.0000	0
L5	18.3611	12.3908	489.4181	6.2977	9.2256	53.0501	991.6937	6.0984	4.1868	19.14
	19.5520	13.2011	591.8431	6.7095	9.8214	60.2603	1199.2346	6.4972	4.4951	20.549
L6	19.5520	13.2011	591.8431	6.7095	9.8214	60.2603	1199.2346	6.4972	4.4951	20.549
	20.7429	14.0113	707.6456	7.1213	10.4173	67.9299	1433.8818	6.8959	4.8034	21.958
L7	20.7429	14.0113	707.6456	7.1213	10.4173	67.9299	1433.8818	6.8959	4.8034	21.958
	21.9337	14.8216	837.6465	7.5331	11.0132	76.0588	1697.2989	7.2947	5.1117	23.368
L8	21.9337	14.8216	837.6465	7.5331	11.0132	76.0588	1697.2989	7.2947	5.1117	23.368
	23.1246	15.6318	982.6669	7.9449	11.6090	84.6469	1991.1496	7.6935	5.4200	24.777
L9	23.1246	15.6318	982.6669	7.9449	11.6090	84.6469	1991.1496	7.6935	5.4200	24.777
	23.2437	15.7128	998.0267	7.9861	11.6686	85.5310	2022.2726	7.7334	5.4508	24.918
L10	23.1665	31.1175	1937.9066	7.9078	11.6686	166.0789	3926.7243	15.3151	4.8645	11.119
	23.2261	31.1985	1953.0840	7.9284	11.6984	166.9533	3957.4777	15.3550	4.8799	11.154
L11	23.2283	30.7615	1926.8132	7.9306	11.6984	164.7076	3904.2459	15.1399	4.8967	11.355
	23.7444	31.4538	2059.8514	8.1091	11.9566	172.2769	4173.8173	15.4806	5.0303	11.664
L12	23.6651	47.3890	3042.0716	8.0285	11.9566	254.4255	6164.0618	23.3234	4.4273	6.746
	23.7246	47.5106	3065.5373	8.0491	11.9864	255.7508	6211.6097	23.3833	4.4427	6.77
L13	23.7334	45.7515	2958.6022	8.0581	11.9864	246.8294	5994.9303	22.5175	4.5097	7.144
	24.9243	48.0896	3435.7776	8.4699	12.5823	273.0648	6961.8169	23.6682	4.8180	7.632
L14	24.9331	46.2339	3310.1785	8.4788	12.5823	263.0826	6707.3192	22.7549	4.8850	8.058
	26.1240	48.4794	3816.3002	8.8906	13.1781	289.5933	7732.8588	23.8601	5.1933	8.566
L15	26.1284	47.5037	3743.2603	8.8951	13.1781	284.0508	7584.8602	23.3799	5.2268	8.803
	28.0536	51.0590	4648.1932	9.5608	14.1414	328.6940	9418.4997	25.1297	5.7252	9.642
L16	27.5660	55.7804	4520.3657	9.0206	13.4083	337.1320	9159.4864	27.4534	5.0946	7.41
	27.7444	58.3229	5167.0973	9.4318	14.0032	368.9933	10469.940 1	28.7048	5.4024	7.858
L17	27.7488	57.2897	5080.3746	9.4363	14.0032	362.8002	10294.216 2	28.1962	5.4359	8.053

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
	28.1055	58.0386	5282.2220	9.5596	14.1817	372.4673	10703.2139	28.5648	5.5283	8.19
L18	28.0834	63.2641	5730.8868	9.5372	14.1817	404.1042	11612.3304	31.1367	5.3608	7.269
	28.1429	63.4005	5768.0272	9.5578	14.2115	405.8717	11687.5869	31.2038	5.3761	7.29
L19	28.1473	62.3551	5678.2323	9.5623	14.2115	399.5532	11505.6381	30.6893	5.4096	7.462
	28.8417	63.9209	6116.8304	9.8024	14.5589	420.1439	12394.3567	31.4599	5.5894	7.71
L20	28.8373	64.9933	6213.7750	9.7979	14.5589	426.8027	12590.7928	31.9877	5.5559	7.533
	28.8967	65.1297	6252.9712	9.8185	14.5886	428.6192	12670.2150	32.0548	5.5713	7.554
L21	28.8967	65.1297	6252.9712	9.8185	14.5886	428.6192	12670.2150	32.0548	5.5713	7.554
	28.9356	65.2187	6278.6630	9.8319	14.6081	429.8078	12722.2735	32.0987	5.5813	7.568
L22	28.8121	94.9444	8908.8871	9.7066	14.6081	609.8606	18051.8206	46.7287	4.6433	4.27
	28.8716	95.1455	8965.6138	9.7272	14.6378	612.4966	18166.7642	46.8277	4.6587	4.284
L23	28.8716	95.1455	8965.6138	9.7272	14.6378	612.4966	18166.7642	46.8277	4.6587	4.284
	28.9112	95.2796	9003.5726	9.7409	14.6577	614.2575	18243.6791	46.8937	4.6690	4.293
L24	28.9817	78.3284	7510.9653	9.8125	14.6577	512.4262	15219.2520	38.5509	5.2050	5.865
	29.0412	78.4925	7558.2737	9.8330	14.6874	514.6094	15315.1117	38.6316	5.2204	5.882
L25	29.0456	77.4222	7461.9977	9.8375	14.6874	508.0544	15120.0304	38.1049	5.2539	6.004
	29.2644	78.0176	7635.4840	9.9132	14.7969	516.0203	15471.5607	38.3979	5.3105	6.069
L26	29.2071	91.9638	8895.0455	9.8550	14.7969	601.1439	18023.7738	45.2618	4.8750	4.699
	29.2665	92.1556	8950.8295	9.8755	14.8266	603.7002	18136.8073	45.3562	4.8904	4.714
L27	29.2842	87.8734	8565.8744	9.8934	14.8266	577.7364	17356.7838	43.2486	5.0244	5.088
	30.4732	91.5254	9678.8610	10.3046	15.4215	627.6194	19611.9965	45.0460	5.3322	5.4
L28	30.4820	89.2857	9458.4290	10.3136	15.4215	613.3257	19165.3414	43.9437	5.3992	5.61
	31.5712	92.5463	10532.9388	10.6902	15.9665	659.6898	21342.5896	45.5485	5.6812	5.903
L29	31.5712	92.5463	10532.9388	10.6902	15.9665	659.6898	21342.5896	45.5485	5.6812	5.903
	31.6306	92.7243	10593.8238	10.7107	15.9962	662.2693	21465.9592	45.6361	5.6966	5.918
L30	31.6394	90.3913	10344.5483	10.7197	15.9962	646.6859	20960.8594	44.4878	5.7636	6.148
	32.8285	93.8584	11581.1273	11.1309	16.5912	698.0292	23466.5038	46.1942	6.0714	6.476
L31	32.8373	91.4289	11299.5103	11.1398	16.5912	681.0553	22895.8713	44.9985	6.1384	6.727
	34.0263	94.8036	12597.4488	11.5510	17.1861	733.0017	25525.8467	46.6594	6.4462	7.064
L32	34.0351	92.2777	12280.8156	11.5599	17.1861	714.5779	24884.2618	45.4163	6.5132	7.339
	36.2943	98.5138	14942.6810	12.3412	18.3165	815.8053	30277.9228	48.4855	7.0980	7.998
L33	35.6767	85.5947	11694.1327	11.7125	17.3681	673.3129	23695.4832	42.1271	6.8083	8.379
	35.9151	89.3598	13306.2060	12.2277	18.1135	734.6008	26961.9809	43.9802	7.1940	8.854
L34	35.9195	88.0172	13115.8847	12.2322	18.1135	724.0936	26576.3384	43.3194	7.2275	9.034
	36.9922	90.6864	14345.6794	12.6032	18.6503	769.1947	29068.2358	44.6331	7.5052	9.381

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
L35	36.9702	97.5977	15384.2069	12.5808	18.6503	824.8790	31172.5740	48.0346	7.3377	8.507
	37.0298	97.7576	15459.9324	12.6014	18.6801	827.6161	31326.0144	48.1133	7.3531	8.525
L36	37.0386	94.9915	15043.8271	12.6103	18.6801	805.3408	30482.8722	46.7519	7.4201	8.86
	38.2305	98.0962	16567.6787	13.0225	19.2765	859.4776	33570.6088	48.2800	7.7286	9.228
L37	38.2349	96.6653	16337.2305	13.0270	19.2765	847.5227	33103.6583	47.5757	7.7621	9.409
	39.1885	99.1121	17609.4574	13.3567	19.7536	891.4578	35681.5349	48.7799	8.0090	9.708
L38	39.1488	112.2877	19830.2749	13.3164	19.7536	1003.8841	40181.5133	55.2646	7.7075	8.221
	39.2084	112.4615	19922.4845	13.3371	19.7834	1007.0319	40368.3549	55.3501	7.7229	8.238
L39	39.2128	110.9993	19676.6445	13.3415	19.7834	994.6053	39870.2164	54.6305	7.7564	8.385
	39.8485	112.8282	20665.3787	13.5614	20.1014	1028.0546	41873.6599	55.5306	7.9210	8.563
L40	39.8661	106.8702	19625.8406	13.5793	20.1014	976.3400	39767.2738	52.5983	8.0550	9.206
	39.9257	107.0324	19715.3307	13.5999	20.1313	979.3392	39948.6051	52.6781	8.0704	9.223
L41	39.9257	107.0324	19715.3307	13.5999	20.1313	979.3392	39948.6051	52.6781	8.0704	9.223
	40.1244	107.5730	20015.5831	13.6686	20.2307	989.3692	40556.9979	52.9442	8.1218	9.282
L42	40.0803	122.5381	22651.0133	13.6238	20.2307	1119.6384	45897.0940	60.3095	7.7868	7.787
	40.1399	122.7235	22753.9594	13.6444	20.2605	1123.0717	46105.6907	60.4008	7.8023	7.802
L43	40.1399	122.7235	22753.9594	13.6444	20.2605	1123.0717	46105.6907	60.4008	7.8023	7.802
	40.3187	123.2795	23064.6683	13.7062	20.3499	1133.4031	46735.2711	60.6744	7.8485	7.849
L44	40.3187	123.2795	23064.6683	13.7062	20.3499	1133.4031	46735.2711	60.6744	7.8485	7.849
	40.3783	123.4649	23168.8630	13.7268	20.3797	1136.8574	46946.3978	60.7657	7.8640	7.864
L45	40.3871	120.4568	22633.8560	13.7358	20.3797	1110.6055	45862.3287	59.2852	7.9310	8.134
	41.5790	124.0713	24733.1110	14.1480	20.9761	1179.1080	50115.9883	61.0641	8.2395	8.451
L46	41.5878	120.9664	24144.6925	14.1569	20.9761	1151.0562	48923.6931	59.5360	8.3065	8.744
	42.7797	124.4883	26315.5423	14.5691	21.5725	1219.8655	53322.4233	61.2693	8.6151	9.068
L47	42.7797	124.4883	26315.5423	14.5691	21.5725	1219.8655	53322.4233	61.2693	8.6151	9.068
	43.4353	126.4253	27563.1464	14.7958	21.9005	1258.5624	55850.4074	62.2227	8.7848	9.247
L48	43.4353	126.4253	27563.1464	14.7958	21.9005	1258.5624	55850.4074	62.2227	8.7848	9.247
	43.4949	126.6014	27678.4811	14.8164	21.9303	1262.1103	56084.1067	62.3093	8.8002	9.263
L49	43.4949	126.6014	27678.4811	14.8164	21.9303	1262.1103	56084.1067	62.3093	8.8002	9.263
	43.6737	127.1296	28026.4146	14.8782	22.0198	1272.7839	56789.1143	62.5693	8.8465	9.312
L50	43.6384	140.1736	30753.4932	14.8424	22.0198	1396.6307	62314.9149	68.9892	8.5785	8.17
	43.6980	140.3682	30881.7726	14.8630	22.0496	1400.5597	62574.8438	69.0850	8.5939	8.185
L51	43.6980	140.3682	30881.7726	14.8630	22.0496	1400.5597	62574.8438	69.0850	8.5939	8.185
	44.3535	142.5092	32316.4657	15.0897	22.3776	1444.1435	65481.9209	70.1387	8.7636	8.346

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
ft	ft^2	in					in	in	in
L1 129.00-124.00				1	1	1			
L2 124.00-119.00				1	1	1			
L3 119.00-115.50				1	1	1			
L4 115.50-115.00				1	1	1			
L5 115.00-110.00				1	1	1			
L6 110.00-105.00				1	1	1			
L7 105.00-100.00				1	1	1			
L8 100.00-95.00				1	1	1			
L9 95.00-94.50				1	1	1			
L10 94.50-94.25				1	1	0.938272			
L11 94.25-92.08				1	1	0.941821			
L12 92.08-91.83				1	1	0.908929			
L13 91.83-86.83				1	1	0.914833			
L14 86.83-81.83				1	1	0.924191			
L15 81.83-73.75				1	1	0.923474			
L16 73.75-73.00				1	1	0.924619			
L17 73.00-71.50				1	1	0.935123			
L18 71.50-71.25				1	1	0.928028			
L19 71.25-68.33				1	1	0.931031			
L20 68.33-68.08				1	1	1.03957			
L21 68.08-67.92				1	1	1.03873			
L22 67.92-67.67				1	1	0.883653			
L23 67.67-67.50				1	1	0.882814			
L24 67.50-67.25				1	1	0.900118			
L25 67.25-66.33				1	1	0.908323			
L26 66.33-66.08				1	1	1.00052			
L27 66.08-61.08				1	1	1.02004			
L28 61.08-56.50				1	1	1.02022			
L29 56.50-56.25				1	1	1.01889			
L30 56.25-51.25				1	1	1.01889			
L31 51.25-46.25				1	1	1.02092			
L32 46.25-36.75				1	1	1.02842			
L33 36.75-35.75				1	1	0.978759			

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
L34 35.75-31.25				1	1	0.978237			
L35 31.25-31.00				1	1	1.01703			
L36 31.00-26.00				1	1	1.02769			
L37 26.00-22.00				1	1	1.02838			
L38 22.00-21.75				1	1	0.979278			
L39 21.75-19.08				1	1	0.982667			
L40 19.08-18.83				1	1	0.960507			
L41 18.83-18.00				1	1	0.957834			
L42 18.00-17.75				1	1	0.987036			
L43 17.75-17.00				1	1	0.984275			
L44 17.00-16.75				1	1	0.98336			
L45 16.75-11.75				1	1	0.989759			
L46 11.75-6.75				1	1	0.997611			
L47 6.75-4.00				1	1	0.988374			
L48 4.00-3.75				1	1	0.972717			
L49 3.75-3.00				1	1	0.970315			
L50 3.00-2.75				1	1	0.911401			
L51 2.75-0.00				1	1	0.903075			

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
*******										
HCS 6X12 4AWG(1-5/8)	C	No	Surface Ar (CaAa)	126.00 - 0.00	4	3	-0.150 0.000	1.6600		2.40
HB158-21U6S24-xxM_TMO(1-5/8)	C	No	Surface Ar (CaAa)	126.00 - 0.00	3	3	0.000 0.150	1.9960		2.50
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******										
CCI-060100	A	No	Surface Af (CaAa)	20.50 - 0.00	1	1	-0.150 -0.100	6.0000	14.0000	0.00
CCI-060100	B	No	Surface Af (CaAa)	20.50 - 0.00	1	1	-0.150 -0.100	6.0000	14.0000	0.00
CCI-060100	C	No	Surface Af (CaAa)	20.50 - 0.00	1	1	-0.150 -0.100	6.0000	14.0000	0.00
CCI-060100	A	No	Surface Af (CaAa)	59.00 - 39.00	1	1	-0.150 -0.100	6.0000	14.0000	0.00
CCI-060100	B	No	Surface Af (CaAa)	59.00 - 39.00	1	1	-0.150 -0.100	6.0000	14.0000	0.00
CCI-060100	C	No	Surface Af (CaAa)	59.00 - 39.00	1	1	-0.150 -0.100	6.0000	14.0000	0.00
*******										
CCI-065125	B	No	Surface Af (CaAa)	20.50 - 0.00	1	1	-0.400 -0.350	6.5000	15.5000	0.00
CCI-065125	C	No	Surface Af (CaAa)	25.50 - 0.00	1	1	0.350 0.400	6.5000	15.5000	0.00
CCI-065125	C	No	Surface Af (CaAa)	20.50 - 0.00	1	1	-0.400 -0.350	6.5000	15.5000	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
CCI-065125	B	No	Surface Af (CaAa)	40.58 - 20.50	1	1	-0.400 -0.350	6.5000	15.5000	0.00
CCI-065125	A	No	Surface Af (CaAa)	40.58 - 15.58	1	1	0.350 0.400	6.5000	15.5000	0.00
CCI-065125	C	No	Surface Af (CaAa)	40.58 - 20.50	1	1	-0.400 -0.350	6.5000	15.5000	0.00
CCI-060100	A	No	Surface Af (CaAa)	74.00 - 54.00	1	1	0.350 0.400	6.0000	14.0000	0.00
CCI-060100	B	No	Surface Af (CaAa)	74.00 - 54.00	1	1	0.350 0.400	6.0000	14.0000	0.00
CCI-060100	C	No	Surface Af (CaAa)	74.00 - 54.00	1	1	0.350 0.400	6.0000	14.0000	0.00
CCI-045100	A	No	Surface Af (CaAa)	94.08 - 74.00	1	1	0.350 0.400	4.5000	11.0000	0.00
CCI-045100	B	No	Surface Af (CaAa)	94.08 - 74.00	1	1	0.350 0.400	4.5000	11.0000	0.00
CCI-045100	C	No	Surface Af (CaAa)	94.08 - 74.00	1	1	0.350 0.400	4.5000	11.0000	0.00
*******										
CCI-085125	A	No	Surface Af (CaAa)	35.00 - 0.00	1	1	0.200 0.250	8.5000	19.5000	0.00
CCI-085125	B	No	Surface Af (CaAa)	35.00 - 0.00	1	1	0.350 0.400	8.5000	19.5000	0.00
CCI-085125	C	No	Surface Af (CaAa)	35.00 - 0.00	1	1	0.200 0.250	8.5000	19.5000	0.00
CCI-085125	A	No	Surface Af (CaAa)	70.08 - 35.00	1	1	0.200 0.250	8.5000	19.5000	0.00
CCI-085125	C	No	Surface Af (CaAa)	70.80 - 35.00	1	1	0.200 0.250	8.5000	19.5000	0.00
CCI-065125	A	No	Surface Af (CaAa)	70.67 - 40.67	1	1	-0.400 -0.350	6.5000	15.5000	0.00
CCI-065125	B	No	Surface Af (CaAa)	70.67 - 40.67	1	1	-0.400 -0.350	6.5000	15.5000	0.00
CCI-065125	C	No	Surface Af (CaAa)	70.67 - 40.67	1	1	-0.400 -0.350	6.5000	15.5000	0.00
CCI-045100	A	No	Surface Af (CaAa)	96.00 - 66.00	1	1	-0.150 -0.100	4.5000	11.0000	0.00
CCI-045100	B	No	Surface Af (CaAa)	96.00 - 66.00	1	1	-0.150 -0.100	4.5000	11.0000	0.00
CCI-045100	C	No	Surface Af (CaAa)	96.00 - 66.00	1	1	-0.150 -0.100	4.5000	11.0000	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
******									
LDF5-50A(7/8)	B	No	No	Inside Pole	116.00 - 0.00	6	No Ice	0.00	0.33
							1/2" Ice	0.00	0.33
							1" Ice	0.00	0.33
							2" Ice	0.00	0.33
HB158-U12S24-XXX-LI(1-5/8)	B	No	No	Inside Pole	116.00 - 0.00	2	No Ice	0.00	3.20
							1/2" Ice	0.00	3.20
							1" Ice	0.00	3.20
							2" Ice	0.00	3.20
*******									
HB114-08U3M12-XXXF(7/8)	B	No	No	Inside Pole	105.00 - 0.00	1	No Ice	0.00	0.68
							1/2" Ice	0.00	0.68
							1" Ice	0.00	0.68
							2" Ice	0.00	0.68
HB114-1-08U4-M5F(1-1/4)	B	No	No	Inside Pole	105.00 - 0.00	3	No Ice	0.00	1.30
							1/2" Ice	0.00	1.30
							1" Ice	0.00	1.30

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft²/ft	Weight plf
							2" Ice	0.00	1.30
******									
LDF6-50A(1-1/4)	A	No	No	Inside Pole	94.00 - 0.00	12	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-002-75000(3/8)	A	No	No	Inside Pole	94.00 - 0.00	1	No Ice	0.00	0.06
							1/2" Ice	0.00	0.06
							1" Ice	0.00	0.06
							2" Ice	0.00	0.06
FB-L98B-034-XXX(3/8)	A	No	No	Inside Pole	94.00 - 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-VG86ST-BRD(3/4)	A	No	No	Inside Pole	94.00 - 0.00	4	No Ice	0.00	0.58
							1/2" Ice	0.00	0.58
							1" Ice	0.00	0.58
							2" Ice	0.00	0.58
Conduit(2)	A	No	No	Inside Pole	94.00 - 0.00	1	No Ice	0.00	2.80
							1/2" Ice	0.00	2.80
							1" Ice	0.00	2.80
							2" Ice	0.00	2.80
*******									
FLC 12-50J(1/2)	C	No	No	Inside Pole	60.00 - 0.00	1	No Ice	0.00	0.16
							1/2" Ice	0.00	0.16
							1" Ice	0.00	0.16
							2" Ice	0.00	0.16
******									

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft²	A_F ft²	C_AA_A In Face ft²	C_AA_A Out Face ft²	Weight K
L1	129.00-124.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	2.194	0.000	0.03
L2	124.00-119.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	5.484	0.000	0.09
L3	119.00-115.50	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	3.839	0.000	0.06
L4	115.50-115.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.548	0.000	0.01
L5	115.00-110.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.04
		C	0.000	0.000	5.484	0.000	0.09
L6	110.00-105.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.04
		C	0.000	0.000	5.484	0.000	0.09
L7	105.00-100.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.06
		C	0.000	0.000	5.484	0.000	0.09
L8	100.00-95.00	A	0.000	0.000	0.750	0.000	0.00
		B	0.000	0.000	0.750	0.000	0.06
		C	0.000	0.000	6.234	0.000	0.09
L9	95.00-94.50	A	0.000	0.000	0.375	0.000	0.00
		B	0.000	0.000	0.375	0.000	0.01
		C	0.000	0.000	0.923	0.000	0.01
L10	94.50-94.25	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	0.462	0.000	0.00
L11	94.25-92.08	A	0.000	0.000	3.123	0.000	0.02

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	3.123	0.000	0.03
		C	0.000	0.000	5.500	0.000	0.04
L12	92.08-91.83	A	0.000	0.000	0.375	0.000	0.00
		B	0.000	0.000	0.375	0.000	0.00
		C	0.000	0.000	0.649	0.000	0.00
L13	91.83-86.83	A	0.000	0.000	7.500	0.000	0.06
		B	0.000	0.000	7.500	0.000	0.06
		C	0.000	0.000	12.984	0.000	0.09
L14	86.83-81.83	A	0.000	0.000	7.500	0.000	0.06
		B	0.000	0.000	7.500	0.000	0.06
		C	0.000	0.000	12.984	0.000	0.09
L15	81.83-73.75	A	0.000	0.000	12.187	0.000	0.10
		B	0.000	0.000	12.187	0.000	0.10
		C	0.000	0.000	21.052	0.000	0.14
L16	73.75-73.00	A	0.000	0.000	1.312	0.000	0.01
		B	0.000	0.000	1.312	0.000	0.01
		C	0.000	0.000	2.135	0.000	0.01
L17	73.00-71.50	A	0.000	0.000	2.625	0.000	0.02
		B	0.000	0.000	2.625	0.000	0.02
		C	0.000	0.000	4.270	0.000	0.03
L18	71.50-71.25	A	0.000	0.000	0.438	0.000	0.00
		B	0.000	0.000	0.438	0.000	0.00
		C	0.000	0.000	0.712	0.000	0.00
L19	71.25-68.33	A	0.000	0.000	10.124	0.000	0.04
		B	0.000	0.000	7.645	0.000	0.04
		C	0.000	0.000	14.347	0.000	0.05
L20	68.33-68.08	A	0.000	0.000	1.062	0.000	0.00
		B	0.000	0.000	0.708	0.000	0.00
		C	0.000	0.000	1.337	0.000	0.00
L21	68.08-67.92	A	0.000	0.000	0.694	0.000	0.00
		B	0.000	0.000	0.463	0.000	0.00
		C	0.000	0.000	0.873	0.000	0.00
L22	67.92-67.67	A	0.000	0.000	1.062	0.000	0.00
		B	0.000	0.000	0.708	0.000	0.00
		C	0.000	0.000	1.337	0.000	0.00
L23	67.67-67.50	A	0.000	0.000	0.708	0.000	0.00
		B	0.000	0.000	0.472	0.000	0.00
		C	0.000	0.000	0.891	0.000	0.00
L24	67.50-67.25	A	0.000	0.000	1.062	0.000	0.00
		B	0.000	0.000	0.708	0.000	0.00
		C	0.000	0.000	1.337	0.000	0.00
L25	67.25-66.33	A	0.000	0.000	3.910	0.000	0.01
		B	0.000	0.000	2.607	0.000	0.01
		C	0.000	0.000	4.919	0.000	0.02
L26	66.33-66.08	A	0.000	0.000	1.062	0.000	0.00
		B	0.000	0.000	0.708	0.000	0.00
		C	0.000	0.000	1.337	0.000	0.00
L27	66.08-61.08	A	0.000	0.000	17.560	0.000	0.06
		B	0.000	0.000	10.477	0.000	0.06
		C	0.000	0.000	23.044	0.000	0.09
L28	61.08-56.50	A	0.000	0.000	18.530	0.000	0.06
		B	0.000	0.000	12.042	0.000	0.06
		C	0.000	0.000	23.553	0.000	0.08
L29	56.50-56.25	A	0.000	0.000	1.125	0.000	0.00
		B	0.000	0.000	0.771	0.000	0.00
		C	0.000	0.000	1.399	0.000	0.00
L30	56.25-51.25	A	0.000	0.000	19.750	0.000	0.06
		B	0.000	0.000	12.667	0.000	0.06
		C	0.000	0.000	25.234	0.000	0.09
L31	51.25-46.25	A	0.000	0.000	17.500	0.000	0.06
		B	0.000	0.000	10.417	0.000	0.06
		C	0.000	0.000	22.984	0.000	0.09
L32	46.25-36.75	A	0.000	0.000	30.902	0.000	0.12
		B	0.000	0.000	17.444	0.000	0.12
		C	0.000	0.000	41.322	0.000	0.16
L33	36.75-35.75	A	0.000	0.000	2.500	0.000	0.01
		B	0.000	0.000	1.083	0.000	0.01
		C	0.000	0.000	3.597	0.000	0.02
L34	35.75-31.25	A	0.000	0.000	11.250	0.000	0.06

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	10.188	0.000	0.06
		C	0.000	0.000	16.186	0.000	0.08
L35	31.25-31.00	A	0.000	0.000	0.625	0.000	0.00
		B	0.000	0.000	0.625	0.000	0.00
		C	0.000	0.000	0.899	0.000	0.00
L36	31.00-26.00	A	0.000	0.000	12.500	0.000	0.06
		B	0.000	0.000	12.500	0.000	0.06
		C	0.000	0.000	17.984	0.000	0.09
L37	26.00-22.00	A	0.000	0.000	10.000	0.000	0.05
		B	0.000	0.000	10.000	0.000	0.05
		C	0.000	0.000	18.179	0.000	0.07
L38	22.00-21.75	A	0.000	0.000	0.625	0.000	0.00
		B	0.000	0.000	0.625	0.000	0.00
		C	0.000	0.000	1.170	0.000	0.00
L39	21.75-19.08	A	0.000	0.000	8.083	0.000	0.03
		B	0.000	0.000	8.083	0.000	0.03
		C	0.000	0.000	13.897	0.000	0.05
L40	19.08-18.83	A	0.000	0.000	0.875	0.000	0.00
		B	0.000	0.000	0.875	0.000	0.00
		C	0.000	0.000	1.420	0.000	0.00
L41	18.83-18.00	A	0.000	0.000	2.917	0.000	0.01
		B	0.000	0.000	2.917	0.000	0.01
		C	0.000	0.000	4.733	0.000	0.01
L42	18.00-17.75	A	0.000	0.000	0.875	0.000	0.00
		B	0.000	0.000	0.875	0.000	0.00
		C	0.000	0.000	1.420	0.000	0.00
L43	17.75-17.00	A	0.000	0.000	2.625	0.000	0.01
		B	0.000	0.000	2.625	0.000	0.01
		C	0.000	0.000	4.260	0.000	0.01
L44	17.00-16.75	A	0.000	0.000	0.875	0.000	0.00
		B	0.000	0.000	0.875	0.000	0.00
		C	0.000	0.000	1.420	0.000	0.00
L45	16.75-11.75	A	0.000	0.000	13.351	0.000	0.06
		B	0.000	0.000	17.500	0.000	0.06
		C	0.000	0.000	28.401	0.000	0.09
L46	11.75-6.75	A	0.000	0.000	12.083	0.000	0.06
		B	0.000	0.000	17.500	0.000	0.06
		C	0.000	0.000	28.401	0.000	0.09
L47	6.75-4.00	A	0.000	0.000	6.646	0.000	0.03
		B	0.000	0.000	9.625	0.000	0.04
		C	0.000	0.000	15.620	0.000	0.05
L48	4.00-3.75	A	0.000	0.000	0.604	0.000	0.00
		B	0.000	0.000	0.875	0.000	0.00
		C	0.000	0.000	1.420	0.000	0.00
L49	3.75-3.00	A	0.000	0.000	1.812	0.000	0.01
		B	0.000	0.000	2.625	0.000	0.01
		C	0.000	0.000	4.260	0.000	0.01
L50	3.00-2.75	A	0.000	0.000	0.604	0.000	0.00
		B	0.000	0.000	0.875	0.000	0.00
		C	0.000	0.000	1.420	0.000	0.00
L51	2.75-0.00	A	0.000	0.000	6.646	0.000	0.03
		B	0.000	0.000	9.625	0.000	0.04
		C	0.000	0.000	15.620	0.000	0.05

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	129.00-124.00	A	1.458	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	4.200	0.000	0.08
L2	124.00-119.00	A	1.453	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	10.486	0.000	0.20
L3	119.00-115.50	A	1.447	0.000	0.000	0.000	0.000	0.00

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
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	7.331	0.000	0.14
L4	115.50-115.00	A	1.445	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	1.047	0.000	0.02
L5	115.00-110.00	A	1.441	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.04
		C		0.000	0.000	10.458	0.000	0.20
L6	110.00-105.00	A	1.435	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.04
		C		0.000	0.000	10.442	0.000	0.20
L7	105.00-100.00	A	1.428	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.06
		C		0.000	0.000	10.425	0.000	0.20
L8	100.00-95.00	A	1.421	0.000	0.000	1.034	0.000	0.01
		B		0.000	0.000	1.034	0.000	0.07
		C		0.000	0.000	11.441	0.000	0.21
L9	95.00-94.50	A	1.417	0.000	0.000	0.517	0.000	0.00
		B		0.000	0.000	0.517	0.000	0.01
		C		0.000	0.000	1.556	0.000	0.02
L10	94.50-94.25	A	1.416	0.000	0.000	0.258	0.000	0.00
		B		0.000	0.000	0.258	0.000	0.01
		C		0.000	0.000	0.778	0.000	0.01
L11	94.25-92.08	A	1.414	0.000	0.000	4.301	0.000	0.06
		B		0.000	0.000	4.301	0.000	0.07
		C		0.000	0.000	8.804	0.000	0.12
L12	92.08-91.83	A	1.413	0.000	0.000	0.516	0.000	0.01
		B		0.000	0.000	0.516	0.000	0.01
		C		0.000	0.000	1.036	0.000	0.01
L13	91.83-86.83	A	1.408	0.000	0.000	10.317	0.000	0.15
		B		0.000	0.000	10.317	0.000	0.15
		C		0.000	0.000	20.693	0.000	0.28
L14	86.83-81.83	A	1.400	0.000	0.000	10.301	0.000	0.15
		B		0.000	0.000	10.301	0.000	0.15
		C		0.000	0.000	20.657	0.000	0.28
L15	81.83-73.75	A	1.389	0.000	0.000	16.678	0.000	0.24
		B		0.000	0.000	16.678	0.000	0.25
		C		0.000	0.000	33.374	0.000	0.45
L16	73.75-73.00	A	1.381	0.000	0.000	1.729	0.000	0.02
		B		0.000	0.000	1.729	0.000	0.02
		C		0.000	0.000	3.278	0.000	0.04
L17	73.00-71.50	A	1.379	0.000	0.000	3.452	0.000	0.05
		B		0.000	0.000	3.452	0.000	0.05
		C		0.000	0.000	6.543	0.000	0.09
L18	71.50-71.25	A	1.377	0.000	0.000	0.575	0.000	0.01
		B		0.000	0.000	0.575	0.000	0.01
		C		0.000	0.000	1.090	0.000	0.01
L19	71.25-68.33	A	1.374	0.000	0.000	12.853	0.000	0.14
		B		0.000	0.000	9.893	0.000	0.12
		C		0.000	0.000	20.081	0.000	0.23
L20	68.33-68.08	A	1.371	0.000	0.000	1.337	0.000	0.01
		B		0.000	0.000	0.914	0.000	0.01
		C		0.000	0.000	1.851	0.000	0.02
L21	68.08-67.92	A	1.371	0.000	0.000	0.873	0.000	0.01
		B		0.000	0.000	0.597	0.000	0.01
		C		0.000	0.000	1.209	0.000	0.01
L22	67.92-67.67	A	1.370	0.000	0.000	1.337	0.000	0.01
		B		0.000	0.000	0.914	0.000	0.01
		C		0.000	0.000	1.851	0.000	0.02
L23	67.67-67.50	A	1.370	0.000	0.000	0.891	0.000	0.01
		B		0.000	0.000	0.609	0.000	0.01
		C		0.000	0.000	1.234	0.000	0.01
L24	67.50-67.25	A	1.369	0.000	0.000	1.336	0.000	0.01
		B		0.000	0.000	0.914	0.000	0.01
		C		0.000	0.000	1.850	0.000	0.02
L25	67.25-66.33	A	1.368	0.000	0.000	4.917	0.000	0.05
		B		0.000	0.000	3.362	0.000	0.04
		C		0.000	0.000	6.808	0.000	0.07
L26	66.33-66.08	A	1.367	0.000	0.000	1.336	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
		B		0.000	0.000	0.913	0.000	0.01
		C		0.000	0.000	1.850	0.000	0.02
L27	66.08-61.08	A	1.361	0.000	0.000	21.666	0.000	0.23
		B		0.000	0.000	13.221	0.000	0.17
		C		0.000	0.000	31.924	0.000	0.36
L28	61.08-56.50	A	1.351	0.000	0.000	22.917	0.000	0.24
		B		0.000	0.000	15.192	0.000	0.18
		C		0.000	0.000	32.290	0.000	0.35
L29	56.50-56.25	A	1.345	0.000	0.000	1.394	0.000	0.01
		B		0.000	0.000	0.973	0.000	0.01
		C		0.000	0.000	1.905	0.000	0.02
L30	56.25-51.25	A	1.339	0.000	0.000	24.369	0.000	0.25
		B		0.000	0.000	15.946	0.000	0.19
		C		0.000	0.000	34.570	0.000	0.38
L31	51.25-46.25	A	1.326	0.000	0.000	21.477	0.000	0.23
		B		0.000	0.000	13.068	0.000	0.17
		C		0.000	0.000	31.646	0.000	0.35
L32	46.25-36.75	A	1.304	0.000	0.000	37.727	0.000	0.40
		B		0.000	0.000	21.790	0.000	0.29
		C		0.000	0.000	56.948	0.000	0.64
L33	36.75-35.75	A	1.287	0.000	0.000	3.022	0.000	0.04
		B		0.000	0.000	1.344	0.000	0.02
		C		0.000	0.000	5.045	0.000	0.06
L34	35.75-31.25	A	1.277	0.000	0.000	13.548	0.000	0.16
		B		0.000	0.000	12.294	0.000	0.15
		C		0.000	0.000	22.591	0.000	0.27
L35	31.25-31.00	A	1.268	0.000	0.000	0.752	0.000	0.01
		B		0.000	0.000	0.752	0.000	0.01
		C		0.000	0.000	1.253	0.000	0.01
L36	31.00-26.00	A	1.256	0.000	0.000	15.013	0.000	0.17
		B		0.000	0.000	15.013	0.000	0.17
		C		0.000	0.000	25.009	0.000	0.29
L37	26.00-22.00	A	1.235	0.000	0.000	11.976	0.000	0.14
		B		0.000	0.000	11.976	0.000	0.14
		C		0.000	0.000	24.586	0.000	0.26
L38	22.00-21.75	A	1.224	0.000	0.000	0.747	0.000	0.01
		B		0.000	0.000	0.747	0.000	0.01
		C		0.000	0.000	1.575	0.000	0.02
L39	21.75-19.08	A	1.215	0.000	0.000	9.724	0.000	0.10
		B		0.000	0.000	9.724	0.000	0.10
		C		0.000	0.000	18.537	0.000	0.19
L40	19.08-18.83	A	1.206	0.000	0.000	1.056	0.000	0.01
		B		0.000	0.000	1.056	0.000	0.01
		C		0.000	0.000	1.881	0.000	0.02
L41	18.83-18.00	A	1.203	0.000	0.000	3.518	0.000	0.03
		B		0.000	0.000	3.518	0.000	0.04
		C		0.000	0.000	6.265	0.000	0.06
L42	18.00-17.75	A	1.199	0.000	0.000	1.055	0.000	0.01
		B		0.000	0.000	1.055	0.000	0.01
		C		0.000	0.000	1.878	0.000	0.02
L43	17.75-17.00	A	1.196	0.000	0.000	3.163	0.000	0.03
		B		0.000	0.000	3.163	0.000	0.03
		C		0.000	0.000	5.632	0.000	0.06
L44	17.00-16.75	A	1.192	0.000	0.000	1.054	0.000	0.01
		B		0.000	0.000	1.054	0.000	0.01
		C		0.000	0.000	1.876	0.000	0.02
L45	16.75-11.75	A	1.172	0.000	0.000	15.970	0.000	0.17
		B		0.000	0.000	21.017	0.000	0.21
		C		0.000	0.000	37.391	0.000	0.36
L46	11.75-6.75	A	1.123	0.000	0.000	14.328	0.000	0.15
		B		0.000	0.000	20.868	0.000	0.20
		C		0.000	0.000	37.068	0.000	0.35
L47	6.75-4.00	A	1.063	0.000	0.000	7.815	0.000	0.08
		B		0.000	0.000	11.379	0.000	0.11
		C		0.000	0.000	20.176	0.000	0.18
L48	4.00-3.75	A	1.029	0.000	0.000	0.707	0.000	0.01
		B		0.000	0.000	1.029	0.000	0.01
		C		0.000	0.000	1.823	0.000	0.02
L49	3.75-3.00	A	1.015	0.000	0.000	2.117	0.000	0.02

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
		B		0.000	0.000	3.082	0.000	0.03
		C		0.000	0.000	5.455	0.000	0.05
L50	3.00-2.75	A	0.999	0.000	0.000	0.704	0.000	0.01
		B		0.000	0.000	1.025	0.000	0.01
		C		0.000	0.000	1.813	0.000	0.02
L51	2.75-0.00	A	0.928	0.000	0.000	7.666	0.000	0.07
		B		0.000	0.000	11.156	0.000	0.09
		C		0.000	0.000	19.691	0.000	0.16

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
L1	129.00-124.00	-0.0292	3.2528	-0.0094	2.4091
L2	124.00-119.00	-0.0476	5.3106	-0.0146	3.7291
L3	119.00-115.50	-0.0476	5.3106	-0.0146	3.7290
L4	115.50-115.00	-0.0502	5.4393	-0.0161	3.8428
L5	115.00-110.00	-0.0420	4.3753	-0.0182	3.9784
L6	110.00-105.00	-0.0439	4.4536	-0.0199	4.1060
L7	105.00-100.00	-0.0457	4.5265	-0.0215	4.2279
L8	100.00-95.00	-0.0409	3.9738	-0.0209	3.9236
L9	95.00-94.50	-0.0273	2.6199	-0.0156	2.8795
L10	94.50-94.25	-0.0274	2.6284	-0.0157	2.8889
L11	94.25-92.08	-0.0198	1.8922	-0.0121	2.2083
L12	92.08-91.83	-0.0196	1.8634	-0.0121	2.1836
L13	91.83-86.83	-0.0201	1.8945	-0.0126	2.2228
L14	86.83-81.83	-0.0210	1.9527	-0.0134	2.2963
L15	81.83-73.75	-0.0222	2.0207	-0.0145	2.3857
L16	73.75-73.00	-0.0207	1.8747	-0.0140	2.2889
L17	73.00-71.50	-0.0209	1.8863	-0.0142	2.3024
L18	71.50-71.25	-0.0210	1.8958	-0.0144	2.3144
L19	71.25-68.33	-1.2860	1.1528	-1.0735	1.5575
L20	68.33-68.08	-1.4570	0.5966	-1.2345	1.0547
L21	68.08-67.92	-1.4590	0.5973	-1.2362	1.0560
L22	67.92-67.67	-1.3990	0.5726	-1.2347	1.0544
L23	67.67-67.50	-1.4009	0.5733	-1.2365	1.0558
L24	67.50-67.25	-1.4654	0.5995	-1.2418	1.0600
L25	67.25-66.33	-1.4709	0.6014	-1.2467	1.0635
L26	66.33-66.08	-1.4152	0.5783	-1.2497	1.0654
L27	66.08-61.08	-1.7660	0.7198	-1.4901	1.2669
L28	61.08-56.50	-1.6130	0.6545	-1.3781	1.1659
L29	56.50-56.25	-1.4941	0.6050	-1.2870	1.0861
L30	56.25-51.25	-1.6952	0.6849	-1.4474	1.2181
L31	51.25-46.25	-1.9266	0.7752	-1.6317	1.3662
L32	46.25-36.75	-1.3337	-0.5156	-1.0929	0.2800
L33	36.75-35.75	-0.2515	-3.0720	-0.1124	-1.7657
L34	35.75-31.25	1.2770	-0.9332	1.1620	-0.0796
L35	31.25-31.00	1.5585	-0.5640	1.4032	0.2230
L36	31.00-26.00	1.5771	-0.5722	1.4202	0.2216
L37	26.00-22.00	-0.3005	-0.2581	-0.2462	0.4575
L38	22.00-21.75	-0.5525	-0.2192	-0.4723	0.4896
L39	21.75-19.08	-0.4946	-0.1971	-0.4274	0.4403
L40	19.08-18.83	-0.4537	-0.1815	-0.3951	0.4044
L41	18.83-18.00	-0.4549	-0.1822	-0.3962	0.4045
L42	18.00-17.75	-0.4562	-0.1830	-0.3974	0.4046
L43	17.75-17.00	-0.4572	-0.1837	-0.3984	0.4047
L44	17.00-16.75	-0.4583	-0.1844	-0.3994	0.4047
L45	16.75-11.75	-0.9931	1.1121	-0.8815	1.6127
L46	11.75-6.75	-1.1906	1.5629	-1.0593	2.0322
L47	6.75-4.00	-1.2108	1.5862	-1.0785	2.0513
L48	4.00-3.75	-1.2186	1.5951	-1.0860	2.0561
L49	3.75-3.00	-1.2212	1.5981	-1.0885	2.0571
L50	3.00-2.75	-1.2240	1.6014	-1.0913	2.0580
L51	2.75-0.00	-1.2317	1.6103	-1.0993	2.0544

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

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L1	2	HCS 6X12 4AWG(1-5/8)	124.00 - 126.00	1.0000	1.0000
L1	3	HB158-21U6S24-xxM_TMO(1-5/8)	124.00 - 126.00	1.0000	1.0000
L2	2	HCS 6X12 4AWG(1-5/8)	119.00 - 124.00	1.0000	1.0000
L2	3	HB158-21U6S24-xxM_TMO(1-5/8)	119.00 - 124.00	1.0000	1.0000
L3	2	HCS 6X12 4AWG(1-5/8)	115.50 - 119.00	1.0000	1.0000
L3	3	HB158-21U6S24-xxM_TMO(1-5/8)	115.50 - 119.00	1.0000	1.0000
L4	2	HCS 6X12 4AWG(1-5/8)	115.00 - 115.50	1.0000	1.0000
L4	3	HB158-21U6S24-xxM_TMO(1-5/8)	115.00 - 115.50	1.0000	1.0000
L5	2	HCS 6X12 4AWG(1-5/8)	110.00 - 115.00	1.0000	1.0000
L5	3	HB158-21U6S24-xxM_TMO(1-5/8)	110.00 - 115.00	1.0000	1.0000
L6	2	HCS 6X12 4AWG(1-5/8)	105.00 - 110.00	1.0000	1.0000
L6	3	HB158-21U6S24-xxM_TMO(1-5/8)	105.00 - 110.00	1.0000	1.0000
L7	2	HCS 6X12 4AWG(1-5/8)	100.00 - 105.00	1.0000	1.0000
L7	3	HB158-21U6S24-xxM_TMO(1-5/8)	100.00 - 105.00	1.0000	1.0000
L8	2	HCS 6X12 4AWG(1-5/8)	95.00 - 100.00	1.0000	1.0000
L8	3	HB158-21U6S24-xxM_TMO(1-5/8)	95.00 - 100.00	1.0000	1.0000
L8	48	CCI-045100	95.00 - 96.00	1.0000	1.0000
L8	49	CCI-045100	95.00 - 96.00	1.0000	1.0000
L8	50	CCI-045100	95.00 - 96.00	1.0000	1.0000
L9	2	HCS 6X12 4AWG(1-5/8)	94.50 - 95.00	1.0000	1.0000
L9	3	HB158-21U6S24-xxM_TMO(1-5/8)	94.50 - 95.00	1.0000	1.0000
L9	48	CCI-045100	94.50 - 95.00	1.0000	1.0000
L9	49	CCI-045100	94.50 - 95.00	1.0000	1.0000
L9	50	CCI-045100	94.50 - 95.00	1.0000	1.0000
L10	2	HCS 6X12 4AWG(1-5/8)	94.25 - 94.50	1.0000	1.0000
L10	3	HB158-21U6S24-xxM_TMO(1-5/8)	94.25 - 94.50	1.0000	1.0000
L10	48	CCI-045100	94.25 - 94.50	1.0000	1.0000
L10	49	CCI-045100	94.25 - 94.50	1.0000	1.0000
L10	50	CCI-045100	94.25 - 94.50	1.0000	1.0000
L11	2	HCS 6X12 4AWG(1-5/8)	92.08 - 94.25	1.0000	1.0000
L11	3	HB158-21U6S24-xxM_TMO(1-5/8)	92.08 - 94.25	1.0000	1.0000
L11	36	CCI-045100	92.08 - 94.08	1.0000	1.0000
L11	37	CCI-045100	92.08 - 94.08	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L11	38	CCI-045100	92.08 - 94.08	1.0000	1.0000
L11	48	CCI-045100	92.08 - 94.25	1.0000	1.0000
L11	49	CCI-045100	92.08 - 94.25	1.0000	1.0000
L11	50	CCI-045100	92.08 - 94.25	1.0000	1.0000
L12	2	HCS 6X12 4AWG(1-5/8)	91.83 - 92.08	1.0000	1.0000
L12	3	HB158-21U6S24-xxM_TMO(1-5/8)	91.83 - 92.08	1.0000	1.0000
L12	36	CCI-045100	91.83 - 92.08	1.0000	1.0000
L12	37	CCI-045100	91.83 - 92.08	1.0000	1.0000
L12	38	CCI-045100	91.83 - 92.08	1.0000	1.0000
L12	48	CCI-045100	91.83 - 92.08	1.0000	1.0000
L12	49	CCI-045100	91.83 - 92.08	1.0000	1.0000
L12	50	CCI-045100	91.83 - 92.08	1.0000	1.0000
L13	2	HCS 6X12 4AWG(1-5/8)	86.83 - 91.83	1.0000	1.0000
L13	3	HB158-21U6S24-xxM_TMO(1-5/8)	86.83 - 91.83	1.0000	1.0000
L13	36	CCI-045100	86.83 - 91.83	1.0000	1.0000
L13	37	CCI-045100	86.83 - 91.83	1.0000	1.0000
L13	38	CCI-045100	86.83 - 91.83	1.0000	1.0000
L13	48	CCI-045100	86.83 - 91.83	1.0000	1.0000
L13	49	CCI-045100	86.83 - 91.83	1.0000	1.0000
L13	50	CCI-045100	86.83 - 91.83	1.0000	1.0000
L14	2	HCS 6X12 4AWG(1-5/8)	81.83 - 86.83	1.0000	1.0000
L14	3	HB158-21U6S24-xxM_TMO(1-5/8)	81.83 - 86.83	1.0000	1.0000
L14	36	CCI-045100	81.83 - 86.83	1.0000	1.0000
L14	37	CCI-045100	81.83 - 86.83	1.0000	1.0000
L14	38	CCI-045100	81.83 - 86.83	1.0000	1.0000
L14	48	CCI-045100	81.83 - 86.83	1.0000	1.0000
L14	49	CCI-045100	81.83 - 86.83	1.0000	1.0000
L14	50	CCI-045100	81.83 - 86.83	1.0000	1.0000
L15	2	HCS 6X12 4AWG(1-5/8)	73.75 - 81.83	1.0000	1.0000
L15	3	HB158-21U6S24-xxM_TMO(1-5/8)	73.75 - 81.83	1.0000	1.0000
L15	33	CCI-060100	73.75 - 74.00	1.0000	1.0000
L15	34	CCI-060100	73.75 - 74.00	1.0000	1.0000
L15	35	CCI-060100	73.75 - 74.00	1.0000	1.0000
L15	36	CCI-045100	74.00 - 81.83	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L15	37	CCI-045100	74.00 - 81.83	1.0000	1.0000
L15	38	CCI-045100	74.00 - 81.83	1.0000	1.0000
L15	48	CCI-045100	73.75 - 81.83	1.0000	1.0000
L15	49	CCI-045100	73.75 - 81.83	1.0000	1.0000
L15	50	CCI-045100	73.75 - 81.83	1.0000	1.0000
L16	2	HCS 6X12 4AWG(1-5/8)	73.00 - 73.75	1.0000	1.0000
L16	3	HB158-21U6S24-xxM_TMO(1-5/8)	73.00 - 73.75	1.0000	1.0000
L16	33	CCI-060100	73.00 - 73.75	1.0000	1.0000
L16	34	CCI-060100	73.00 - 73.75	1.0000	1.0000
L16	35	CCI-060100	73.00 - 73.75	1.0000	1.0000
L16	48	CCI-045100	73.00 - 73.75	1.0000	1.0000
L16	49	CCI-045100	73.00 - 73.75	1.0000	1.0000
L16	50	CCI-045100	73.00 - 73.75	1.0000	1.0000
L17	2	HCS 6X12 4AWG(1-5/8)	71.50 - 73.00	1.0000	1.0000
L17	3	HB158-21U6S24-xxM_TMO(1-5/8)	71.50 - 73.00	1.0000	1.0000
L17	33	CCI-060100	71.50 - 73.00	1.0000	1.0000
L17	34	CCI-060100	71.50 - 73.00	1.0000	1.0000
L17	35	CCI-060100	71.50 - 73.00	1.0000	1.0000
L17	48	CCI-045100	71.50 - 73.00	1.0000	1.0000
L17	49	CCI-045100	71.50 - 73.00	1.0000	1.0000
L17	50	CCI-045100	71.50 - 73.00	1.0000	1.0000
L18	2	HCS 6X12 4AWG(1-5/8)	71.25 - 71.50	1.0000	1.0000
L18	3	HB158-21U6S24-xxM_TMO(1-5/8)	71.25 - 71.50	1.0000	1.0000
L18	33	CCI-060100	71.25 - 71.50	1.0000	1.0000
L18	34	CCI-060100	71.25 - 71.50	1.0000	1.0000
L18	35	CCI-060100	71.25 - 71.50	1.0000	1.0000
L18	48	CCI-045100	71.25 - 71.50	1.0000	1.0000
L18	49	CCI-045100	71.25 - 71.50	1.0000	1.0000
L18	50	CCI-045100	71.25 - 71.50	1.0000	1.0000
L19	2	HCS 6X12 4AWG(1-5/8)	68.33 - 71.25	1.0000	1.0000
L19	3	HB158-21U6S24-xxM_TMO(1-5/8)	68.33 - 71.25	1.0000	1.0000
L19	33	CCI-060100	68.33 - 71.25	1.0000	1.0000
L19	34	CCI-060100	68.33 - 71.25	1.0000	1.0000
L19	35	CCI-060100	68.33 - 71.25	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L19	43	CCI-085125	68.33 - 70.08	1.0000	1.0000
L19	44	CCI-085125	68.33 - 70.80	1.0000	1.0000
L19	45	CCI-065125	68.33 - 70.67	1.0000	1.0000
L19	46	CCI-065125	68.33 - 70.67	1.0000	1.0000
L19	47	CCI-065125	68.33 - 70.67	1.0000	1.0000
L19	48	CCI-045100	68.33 - 71.25	1.0000	1.0000
L19	49	CCI-045100	68.33 - 71.25	1.0000	1.0000
L19	50	CCI-045100	68.33 - 71.25	1.0000	1.0000
L20	2	HCS 6X12 4AWG(1-5/8)	68.08 - 68.33	1.0000	1.0000
L20	3	HB158-21U6S24-xxM_TMO(1-5/8)	68.08 - 68.33	1.0000	1.0000
L20	33	CCI-060100	68.08 - 68.33	1.0000	1.0000
L20	34	CCI-060100	68.08 - 68.33	1.0000	1.0000
L20	35	CCI-060100	68.08 - 68.33	1.0000	1.0000
L20	43	CCI-085125	68.08 - 68.33	1.0000	1.0000
L20	44	CCI-085125	68.08 - 68.33	1.0000	1.0000
L20	45	CCI-065125	68.08 - 68.33	1.0000	1.0000
L20	46	CCI-065125	68.08 - 68.33	1.0000	1.0000
L20	47	CCI-065125	68.08 - 68.33	1.0000	1.0000
L20	48	CCI-045100	68.08 - 68.33	1.0000	1.0000
L20	49	CCI-045100	68.08 - 68.33	1.0000	1.0000
L20	50	CCI-045100	68.08 - 68.33	1.0000	1.0000
L21	2	HCS 6X12 4AWG(1-5/8)	67.92 - 68.08	1.0000	1.0000
L21	3	HB158-21U6S24-xxM_TMO(1-5/8)	67.92 - 68.08	1.0000	1.0000
L21	33	CCI-060100	67.92 - 68.08	1.0000	1.0000
L21	34	CCI-060100	67.92 - 68.08	1.0000	1.0000
L21	35	CCI-060100	67.92 - 68.08	1.0000	1.0000
L21	43	CCI-085125	67.92 - 68.08	1.0000	1.0000
L21	44	CCI-085125	67.92 - 68.08	1.0000	1.0000
L21	45	CCI-065125	67.92 - 68.08	1.0000	1.0000
L21	46	CCI-065125	67.92 - 68.08	1.0000	1.0000
L21	47	CCI-065125	67.92 - 68.08	1.0000	1.0000
L21	48	CCI-045100	67.92 - 68.08	1.0000	1.0000
L21	49	CCI-045100	67.92 - 68.08	1.0000	1.0000
L21	50	CCI-045100	67.92 - 68.08	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L22	2	HCS 6X12 4AWG(1-5/8)	67.67 - 67.92	1.0000	1.0000
L22	3	HB158-21U6S24-xxM_TMO(1-5/8)	67.67 - 67.92	1.0000	1.0000
L22	33	CCI-060100	67.67 - 67.92	1.0000	1.0000
L22	34	CCI-060100	67.67 - 67.92	1.0000	1.0000
L22	35	CCI-060100	67.67 - 67.92	1.0000	1.0000
L22	43	CCI-085125	67.67 - 67.92	1.0000	1.0000
L22	44	CCI-085125	67.67 - 67.92	1.0000	1.0000
L22	45	CCI-065125	67.67 - 67.92	1.0000	1.0000
L22	46	CCI-065125	67.67 - 67.92	1.0000	1.0000
L22	47	CCI-065125	67.67 - 67.92	1.0000	1.0000
L22	48	CCI-045100	67.67 - 67.92	1.0000	1.0000
L22	49	CCI-045100	67.67 - 67.92	1.0000	1.0000
L22	50	CCI-045100	67.67 - 67.92	1.0000	1.0000
L23	2	HCS 6X12 4AWG(1-5/8)	67.50 - 67.67	1.0000	1.0000
L23	3	HB158-21U6S24-xxM_TMO(1-5/8)	67.50 - 67.67	1.0000	1.0000
L23	33	CCI-060100	67.50 - 67.67	1.0000	1.0000
L23	34	CCI-060100	67.50 - 67.67	1.0000	1.0000
L23	35	CCI-060100	67.50 - 67.67	1.0000	1.0000
L23	43	CCI-085125	67.50 - 67.67	1.0000	1.0000
L23	44	CCI-085125	67.50 - 67.67	1.0000	1.0000
L23	45	CCI-065125	67.50 - 67.67	1.0000	1.0000
L23	46	CCI-065125	67.50 - 67.67	1.0000	1.0000
L23	47	CCI-065125	67.50 - 67.67	1.0000	1.0000
L23	48	CCI-045100	67.50 - 67.67	1.0000	1.0000
L23	49	CCI-045100	67.50 - 67.67	1.0000	1.0000
L23	50	CCI-045100	67.50 - 67.67	1.0000	1.0000
L24	2	HCS 6X12 4AWG(1-5/8)	67.25 - 67.50	1.0000	1.0000
L24	3	HB158-21U6S24-xxM_TMO(1-5/8)	67.25 - 67.50	1.0000	1.0000
L24	33	CCI-060100	67.25 - 67.50	1.0000	1.0000
L24	34	CCI-060100	67.25 - 67.50	1.0000	1.0000
L24	35	CCI-060100	67.25 - 67.50	1.0000	1.0000
L24	43	CCI-085125	67.25 - 67.50	1.0000	1.0000
L24	44	CCI-085125	67.25 - 67.50	1.0000	1.0000
L24	45	CCI-065125	67.25 - 67.50	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L24	46	CCI-065125	67.25 - 67.50	1.0000	1.0000
L24	47	CCI-065125	67.25 - 67.50	1.0000	1.0000
L24	48	CCI-045100	67.25 - 67.50	1.0000	1.0000
L24	49	CCI-045100	67.25 - 67.50	1.0000	1.0000
L24	50	CCI-045100	67.25 - 67.50	1.0000	1.0000
L25	2	HCS 6X12 4AWG(1-5/8)	66.33 - 67.25	1.0000	1.0000
L25	3	HB158-21U6S24-xxM_TMO(1-5/8)	66.33 - 67.25	1.0000	1.0000
L25	33	CCI-060100	66.33 - 67.25	1.0000	1.0000
L25	34	CCI-060100	66.33 - 67.25	1.0000	1.0000
L25	35	CCI-060100	66.33 - 67.25	1.0000	1.0000
L25	43	CCI-085125	66.33 - 67.25	1.0000	1.0000
L25	44	CCI-085125	66.33 - 67.25	1.0000	1.0000
L25	45	CCI-065125	66.33 - 67.25	1.0000	1.0000
L25	46	CCI-065125	66.33 - 67.25	1.0000	1.0000
L25	47	CCI-065125	66.33 - 67.25	1.0000	1.0000
L25	48	CCI-045100	66.33 - 67.25	1.0000	1.0000
L25	49	CCI-045100	66.33 - 67.25	1.0000	1.0000
L25	50	CCI-045100	66.33 - 67.25	1.0000	1.0000
L26	2	HCS 6X12 4AWG(1-5/8)	66.08 - 66.33	1.0000	1.0000
L26	3	HB158-21U6S24-xxM_TMO(1-5/8)	66.08 - 66.33	1.0000	1.0000
L26	33	CCI-060100	66.08 - 66.33	1.0000	1.0000
L26	34	CCI-060100	66.08 - 66.33	1.0000	1.0000
L26	35	CCI-060100	66.08 - 66.33	1.0000	1.0000
L26	43	CCI-085125	66.08 - 66.33	1.0000	1.0000
L26	44	CCI-085125	66.08 - 66.33	1.0000	1.0000
L26	45	CCI-065125	66.08 - 66.33	1.0000	1.0000
L26	46	CCI-065125	66.08 - 66.33	1.0000	1.0000
L26	47	CCI-065125	66.08 - 66.33	1.0000	1.0000
L26	48	CCI-045100	66.08 - 66.33	1.0000	1.0000
L26	49	CCI-045100	66.08 - 66.33	1.0000	1.0000
L26	50	CCI-045100	66.08 - 66.33	1.0000	1.0000
L27	2	HCS 6X12 4AWG(1-5/8)	61.08 - 66.08	1.0000	1.0000
L27	3	HB158-21U6S24-xxM_TMO(1-5/8)	61.08 - 66.08	1.0000	1.0000
L27	33	CCI-060100	61.08 - 66.08	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L27	34	CCI-060100	61.08 - 66.08	1.0000	1.0000
L27	35	CCI-060100	61.08 - 66.08	1.0000	1.0000
L27	43	CCI-085125	61.08 - 66.08	1.0000	1.0000
L27	44	CCI-085125	61.08 - 66.08	1.0000	1.0000
L27	45	CCI-065125	61.08 - 66.08	1.0000	1.0000
L27	46	CCI-065125	61.08 - 66.08	1.0000	1.0000
L27	47	CCI-065125	61.08 - 66.08	1.0000	1.0000
L27	48	CCI-045100	66.00 - 66.08	1.0000	1.0000
L27	49	CCI-045100	66.00 - 66.08	1.0000	1.0000
L27	50	CCI-045100	66.00 - 66.08	1.0000	1.0000
L28	2	HCS 6X12 4AWG(1-5/8)	56.50 - 61.08	1.0000	1.0000
L28	3	HB158-21U6S24-xxM_TMO(1-5/8)	56.50 - 61.08	1.0000	1.0000
L28	23	CCI-060100	56.50 - 59.00	1.0000	1.0000
L28	24	CCI-060100	56.50 - 59.00	1.0000	1.0000
L28	25	CCI-060100	56.50 - 59.00	1.0000	1.0000
L28	33	CCI-060100	56.50 - 61.08	1.0000	1.0000
L28	34	CCI-060100	56.50 - 61.08	1.0000	1.0000
L28	35	CCI-060100	56.50 - 61.08	1.0000	1.0000
L28	43	CCI-085125	56.50 - 61.08	1.0000	1.0000
L28	44	CCI-085125	56.50 - 61.08	1.0000	1.0000
L28	45	CCI-065125	56.50 - 61.08	1.0000	1.0000
L28	46	CCI-065125	56.50 - 61.08	1.0000	1.0000
L28	47	CCI-065125	56.50 - 61.08	1.0000	1.0000
L29	2	HCS 6X12 4AWG(1-5/8)	56.25 - 56.50	1.0000	1.0000
L29	3	HB158-21U6S24-xxM_TMO(1-5/8)	56.25 - 56.50	1.0000	1.0000
L29	23	CCI-060100	56.25 - 56.50	1.0000	1.0000
L29	24	CCI-060100	56.25 - 56.50	1.0000	1.0000
L29	25	CCI-060100	56.25 - 56.50	1.0000	1.0000
L29	33	CCI-060100	56.25 - 56.50	1.0000	1.0000
L29	34	CCI-060100	56.25 - 56.50	1.0000	1.0000
L29	35	CCI-060100	56.25 - 56.50	1.0000	1.0000
L29	43	CCI-085125	56.25 - 56.50	1.0000	1.0000
L29	44	CCI-085125	56.25 - 56.50	1.0000	1.0000
L29	45	CCI-065125	56.25 - 56.50	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L29	46	CCI-065125	56.25 - 56.50	1.0000	1.0000
L29	47	CCI-065125	56.25 - 56.50	1.0000	1.0000
L30	2	HCS 6X12 4AWG(1-5/8)	51.25 - 56.25	1.0000	1.0000
L30	3	HB158-21U6S24-xxM_TMO(1-5/8)	51.25 - 56.25	1.0000	1.0000
L30	23	CCI-060100	51.25 - 56.25	1.0000	1.0000
L30	24	CCI-060100	51.25 - 56.25	1.0000	1.0000
L30	25	CCI-060100	51.25 - 56.25	1.0000	1.0000
L30	33	CCI-060100	54.00 - 56.25	1.0000	1.0000
L30	34	CCI-060100	54.00 - 56.25	1.0000	1.0000
L30	35	CCI-060100	54.00 - 56.25	1.0000	1.0000
L30	43	CCI-085125	51.25 - 56.25	1.0000	1.0000
L30	44	CCI-085125	51.25 - 56.25	1.0000	1.0000
L30	45	CCI-065125	51.25 - 56.25	1.0000	1.0000
L30	46	CCI-065125	51.25 - 56.25	1.0000	1.0000
L30	47	CCI-065125	51.25 - 56.25	1.0000	1.0000
L31	2	HCS 6X12 4AWG(1-5/8)	46.25 - 51.25	1.0000	1.0000
L31	3	HB158-21U6S24-xxM_TMO(1-5/8)	46.25 - 51.25	1.0000	1.0000
L31	23	CCI-060100	46.25 - 51.25	1.0000	1.0000
L31	24	CCI-060100	46.25 - 51.25	1.0000	1.0000
L31	25	CCI-060100	46.25 - 51.25	1.0000	1.0000
L31	43	CCI-085125	46.25 - 51.25	1.0000	1.0000
L31	44	CCI-085125	46.25 - 51.25	1.0000	1.0000
L31	45	CCI-065125	46.25 - 51.25	1.0000	1.0000
L31	46	CCI-065125	46.25 - 51.25	1.0000	1.0000
L31	47	CCI-065125	46.25 - 51.25	1.0000	1.0000
L32	2	HCS 6X12 4AWG(1-5/8)	36.75 - 46.25	1.0000	1.0000
L32	3	HB158-21U6S24-xxM_TMO(1-5/8)	36.75 - 46.25	1.0000	1.0000
L32	23	CCI-060100	39.00 - 46.25	1.0000	1.0000
L32	24	CCI-060100	39.00 - 46.25	1.0000	1.0000
L32	25	CCI-060100	39.00 - 46.25	1.0000	1.0000
L32	30	CCI-065125	36.75 - 40.58	1.0000	1.0000
L32	31	CCI-065125	36.75 - 40.58	1.0000	1.0000
L32	32	CCI-065125	36.75 - 40.58	1.0000	1.0000
L32	43	CCI-085125	36.75 - 46.25	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L32	44	CCI-085125	36.75 - 46.25	1.0000	1.0000
L32	45	CCI-065125	40.67 - 46.25	1.0000	1.0000
L32	46	CCI-065125	40.67 - 46.25	1.0000	1.0000
L32	47	CCI-065125	40.67 - 46.25	1.0000	1.0000
L33	2	HCS 6X12 4AWG(1-5/8)	35.75 - 36.75	1.0000	1.0000
L33	3	HB158-21U6S24-xxM_TMO(1-5/8)	35.75 - 36.75	1.0000	1.0000
L33	30	CCI-065125	35.75 - 36.75	1.0000	1.0000
L33	31	CCI-065125	35.75 - 36.75	1.0000	1.0000
L33	32	CCI-065125	35.75 - 36.75	1.0000	1.0000
L33	43	CCI-085125	35.75 - 36.75	1.0000	1.0000
L33	44	CCI-085125	35.75 - 36.75	1.0000	1.0000
L34	2	HCS 6X12 4AWG(1-5/8)	31.25 - 35.75	1.0000	1.0000
L34	3	HB158-21U6S24-xxM_TMO(1-5/8)	31.25 - 35.75	1.0000	1.0000
L34	30	CCI-065125	31.25 - 35.75	1.0000	1.0000
L34	31	CCI-065125	31.25 - 35.75	1.0000	1.0000
L34	32	CCI-065125	31.25 - 35.75	1.0000	1.0000
L34	40	CCI-085125	31.25 - 35.00	1.0000	1.0000
L34	41	CCI-085125	31.25 - 35.00	1.0000	1.0000
L34	42	CCI-085125	31.25 - 35.00	1.0000	1.0000
L34	43	CCI-085125	35.00 - 35.75	1.0000	1.0000
L34	44	CCI-085125	35.00 - 35.75	1.0000	1.0000
L35	2	HCS 6X12 4AWG(1-5/8)	31.00 - 31.25	1.0000	1.0000
L35	3	HB158-21U6S24-xxM_TMO(1-5/8)	31.00 - 31.25	1.0000	1.0000
L35	30	CCI-065125	31.00 - 31.25	1.0000	1.0000
L35	31	CCI-065125	31.00 - 31.25	1.0000	1.0000
L35	32	CCI-065125	31.00 - 31.25	1.0000	1.0000
L35	40	CCI-085125	31.00 - 31.25	1.0000	1.0000
L35	41	CCI-085125	31.00 - 31.25	1.0000	1.0000
L35	42	CCI-085125	31.00 - 31.25	1.0000	1.0000
L36	2	HCS 6X12 4AWG(1-5/8)	26.00 - 31.00	1.0000	1.0000
L36	3	HB158-21U6S24-xxM_TMO(1-5/8)	26.00 - 31.00	1.0000	1.0000
L36	30	CCI-065125	26.00 - 31.00	1.0000	1.0000
L36	31	CCI-065125	26.00 - 31.00	1.0000	1.0000
L36	32	CCI-065125	26.00 - 31.00	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L36	40	CCI-085125	26.00 - 31.00	1.0000	1.0000
L36	41	CCI-085125	26.00 - 31.00	1.0000	1.0000
L36	42	CCI-085125	26.00 - 31.00	1.0000	1.0000
L37	2	HCS 6X12 4AWG(1-5/8)	22.00 - 26.00	1.0000	1.0000
L37	3	HB158-21U6S24-xxM_TMO(1-5/8)	22.00 - 26.00	1.0000	1.0000
L37	28	CCI-065125	22.00 - 25.50	1.0000	1.0000
L37	30	CCI-065125	22.00 - 26.00	1.0000	1.0000
L37	31	CCI-065125	22.00 - 26.00	1.0000	1.0000
L37	32	CCI-065125	22.00 - 26.00	1.0000	1.0000
L37	40	CCI-085125	22.00 - 26.00	1.0000	1.0000
L37	41	CCI-085125	22.00 - 26.00	1.0000	1.0000
L37	42	CCI-085125	22.00 - 26.00	1.0000	1.0000
L38	2	HCS 6X12 4AWG(1-5/8)	21.75 - 22.00	1.0000	1.0000
L38	3	HB158-21U6S24-xxM_TMO(1-5/8)	21.75 - 22.00	1.0000	1.0000
L38	28	CCI-065125	21.75 - 22.00	1.0000	1.0000
L38	30	CCI-065125	21.75 - 22.00	1.0000	1.0000
L38	31	CCI-065125	21.75 - 22.00	1.0000	1.0000
L38	32	CCI-065125	21.75 - 22.00	1.0000	1.0000
L38	40	CCI-085125	21.75 - 22.00	1.0000	1.0000
L38	41	CCI-085125	21.75 - 22.00	1.0000	1.0000
L38	42	CCI-085125	21.75 - 22.00	1.0000	1.0000
L39	2	HCS 6X12 4AWG(1-5/8)	19.08 - 21.75	1.0000	1.0000
L39	3	HB158-21U6S24-xxM_TMO(1-5/8)	19.08 - 21.75	1.0000	1.0000
L39	20	CCI-060100	19.08 - 20.50	1.0000	1.0000
L39	21	CCI-060100	19.08 - 20.50	1.0000	1.0000
L39	22	CCI-060100	19.08 - 20.50	1.0000	1.0000
L39	27	CCI-065125	19.08 - 20.50	1.0000	1.0000
L39	28	CCI-065125	19.08 - 21.75	1.0000	1.0000
L39	29	CCI-065125	19.08 - 20.50	1.0000	1.0000
L39	30	CCI-065125	20.50 - 21.75	1.0000	1.0000
L39	31	CCI-065125	19.08 - 21.75	1.0000	1.0000
L39	32	CCI-065125	20.50 - 21.75	1.0000	1.0000
L39	40	CCI-085125	19.08 - 21.75	1.0000	1.0000
L39	41	CCI-085125	19.08 - 21.75	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L39	42	CCI-085125	19.08 - 21.75	1.0000	1.0000
L40	2	HCS 6X12 4AWG(1-5/8)	18.83 - 19.08	1.0000	1.0000
L40	3	HB158-21U6S24-xxM_TMO(1-5/8)	18.83 - 19.08	1.0000	1.0000
L40	20	CCI-060100	18.83 - 19.08	1.0000	1.0000
L40	21	CCI-060100	18.83 - 19.08	1.0000	1.0000
L40	22	CCI-060100	18.83 - 19.08	1.0000	1.0000
L40	27	CCI-065125	18.83 - 19.08	1.0000	1.0000
L40	28	CCI-065125	18.83 - 19.08	1.0000	1.0000
L40	29	CCI-065125	18.83 - 19.08	1.0000	1.0000
L40	31	CCI-065125	18.83 - 19.08	1.0000	1.0000
L40	40	CCI-085125	18.83 - 19.08	1.0000	1.0000
L40	41	CCI-085125	18.83 - 19.08	1.0000	1.0000
L40	42	CCI-085125	18.83 - 19.08	1.0000	1.0000
L41	2	HCS 6X12 4AWG(1-5/8)	18.00 - 18.83	1.0000	1.0000
L41	3	HB158-21U6S24-xxM_TMO(1-5/8)	18.00 - 18.83	1.0000	1.0000
L41	20	CCI-060100	18.00 - 18.83	1.0000	1.0000
L41	21	CCI-060100	18.00 - 18.83	1.0000	1.0000
L41	22	CCI-060100	18.00 - 18.83	1.0000	1.0000
L41	27	CCI-065125	18.00 - 18.83	1.0000	1.0000
L41	28	CCI-065125	18.00 - 18.83	1.0000	1.0000
L41	29	CCI-065125	18.00 - 18.83	1.0000	1.0000
L41	31	CCI-065125	18.00 - 18.83	1.0000	1.0000
L41	40	CCI-085125	18.00 - 18.83	1.0000	1.0000
L41	41	CCI-085125	18.00 - 18.83	1.0000	1.0000
L41	42	CCI-085125	18.00 - 18.83	1.0000	1.0000
L42	2	HCS 6X12 4AWG(1-5/8)	17.75 - 18.00	1.0000	1.0000
L42	3	HB158-21U6S24-xxM_TMO(1-5/8)	17.75 - 18.00	1.0000	1.0000
L42	20	CCI-060100	17.75 - 18.00	1.0000	1.0000
L42	21	CCI-060100	17.75 - 18.00	1.0000	1.0000
L42	22	CCI-060100	17.75 - 18.00	1.0000	1.0000
L42	27	CCI-065125	17.75 - 18.00	1.0000	1.0000
L42	28	CCI-065125	17.75 - 18.00	1.0000	1.0000
L42	29	CCI-065125	17.75 - 18.00	1.0000	1.0000
L42	31	CCI-065125	17.75 - 18.00	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L42	40	CCI-085125	17.75 - 18.00	1.0000	1.0000
L42	41	CCI-085125	17.75 - 18.00	1.0000	1.0000
L42	42	CCI-085125	17.75 - 18.00	1.0000	1.0000
L43	2	HCS 6X12 4AWG(1-5/8)	17.00 - 17.75	1.0000	1.0000
L43	3	HB158-21U6S24-xxM_TMO(1-5/8)	17.00 - 17.75	1.0000	1.0000
L43	20	CCI-060100	17.00 - 17.75	1.0000	1.0000
L43	21	CCI-060100	17.00 - 17.75	1.0000	1.0000
L43	22	CCI-060100	17.00 - 17.75	1.0000	1.0000
L43	27	CCI-065125	17.00 - 17.75	1.0000	1.0000
L43	28	CCI-065125	17.00 - 17.75	1.0000	1.0000
L43	29	CCI-065125	17.00 - 17.75	1.0000	1.0000
L43	31	CCI-065125	17.00 - 17.75	1.0000	1.0000
L43	40	CCI-085125	17.00 - 17.75	1.0000	1.0000
L43	41	CCI-085125	17.00 - 17.75	1.0000	1.0000
L43	42	CCI-085125	17.00 - 17.75	1.0000	1.0000
L44	2	HCS 6X12 4AWG(1-5/8)	16.75 - 17.00	1.0000	1.0000
L44	3	HB158-21U6S24-xxM_TMO(1-5/8)	16.75 - 17.00	1.0000	1.0000
L44	20	CCI-060100	16.75 - 17.00	1.0000	1.0000
L44	21	CCI-060100	16.75 - 17.00	1.0000	1.0000
L44	22	CCI-060100	16.75 - 17.00	1.0000	1.0000
L44	27	CCI-065125	16.75 - 17.00	1.0000	1.0000
L44	28	CCI-065125	16.75 - 17.00	1.0000	1.0000
L44	29	CCI-065125	16.75 - 17.00	1.0000	1.0000
L44	31	CCI-065125	16.75 - 17.00	1.0000	1.0000
L44	40	CCI-085125	16.75 - 17.00	1.0000	1.0000
L44	41	CCI-085125	16.75 - 17.00	1.0000	1.0000
L44	42	CCI-085125	16.75 - 17.00	1.0000	1.0000
L45	2	HCS 6X12 4AWG(1-5/8)	11.75 - 16.75	1.0000	1.0000
L45	3	HB158-21U6S24-xxM_TMO(1-5/8)	11.75 - 16.75	1.0000	1.0000
L45	20	CCI-060100	11.75 - 16.75	1.0000	1.0000
L45	21	CCI-060100	11.75 - 16.75	1.0000	1.0000
L45	22	CCI-060100	11.75 - 16.75	1.0000	1.0000
L45	27	CCI-065125	11.75 - 16.75	1.0000	1.0000
L45	28	CCI-065125	11.75 - 16.75	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L45	29	CCI-065125	11.75 - 16.75	1.0000	1.0000
L45	31	CCI-065125	15.58 - 16.75	1.0000	1.0000
L45	40	CCI-085125	11.75 - 16.75	1.0000	1.0000
L45	41	CCI-085125	11.75 - 16.75	1.0000	1.0000
L45	42	CCI-085125	11.75 - 16.75	1.0000	1.0000
L46	2	HCS 6X12 4AWG(1-5/8)	6.75 - 11.75	1.0000	1.0000
L46	3	HB158-21U6S24-xxM_TMO(1-5/8)	6.75 - 11.75	1.0000	1.0000
L46	20	CCI-060100	6.75 - 11.75	1.0000	1.0000
L46	21	CCI-060100	6.75 - 11.75	1.0000	1.0000
L46	22	CCI-060100	6.75 - 11.75	1.0000	1.0000
L46	27	CCI-065125	6.75 - 11.75	1.0000	1.0000
L46	28	CCI-065125	6.75 - 11.75	1.0000	1.0000
L46	29	CCI-065125	6.75 - 11.75	1.0000	1.0000
L46	40	CCI-085125	6.75 - 11.75	1.0000	1.0000
L46	41	CCI-085125	6.75 - 11.75	1.0000	1.0000
L46	42	CCI-085125	6.75 - 11.75	1.0000	1.0000
L47	2	HCS 6X12 4AWG(1-5/8)	4.00 - 6.75	1.0000	1.0000
L47	3	HB158-21U6S24-xxM_TMO(1-5/8)	4.00 - 6.75	1.0000	1.0000
L47	20	CCI-060100	4.00 - 6.75	1.0000	1.0000
L47	21	CCI-060100	4.00 - 6.75	1.0000	1.0000
L47	22	CCI-060100	4.00 - 6.75	1.0000	1.0000
L47	27	CCI-065125	4.00 - 6.75	1.0000	1.0000
L47	28	CCI-065125	4.00 - 6.75	1.0000	1.0000
L47	29	CCI-065125	4.00 - 6.75	1.0000	1.0000
L47	40	CCI-085125	4.00 - 6.75	1.0000	1.0000
L47	41	CCI-085125	4.00 - 6.75	1.0000	1.0000
L47	42	CCI-085125	4.00 - 6.75	1.0000	1.0000
L48	2	HCS 6X12 4AWG(1-5/8)	3.75 - 4.00	1.0000	1.0000
L48	3	HB158-21U6S24-xxM_TMO(1-5/8)	3.75 - 4.00	1.0000	1.0000
L48	20	CCI-060100	3.75 - 4.00	1.0000	1.0000
L48	21	CCI-060100	3.75 - 4.00	1.0000	1.0000
L48	22	CCI-060100	3.75 - 4.00	1.0000	1.0000
L48	27	CCI-065125	3.75 - 4.00	1.0000	1.0000
L48	28	CCI-065125	3.75 - 4.00	1.0000	1.0000
L48	29	CCI-065125	3.75 - 4.00	1.0000	1.0000
L48	40	CCI-085125	3.75 - 4.00	1.0000	1.0000
L48	41	CCI-085125	3.75 - 4.00	1.0000	1.0000
L48	42	CCI-085125	3.75 - 4.00	1.0000	1.0000
L49	2	HCS 6X12 4AWG(1-5/8)	3.00 - 3.75	1.0000	1.0000
L49	3	HB158-21U6S24-xxM_TMO(1-5/8)	3.00 - 3.75	1.0000	1.0000
L49	20	CCI-060100	3.00 - 3.75	1.0000	1.0000
L49	21	CCI-060100	3.00 - 3.75	1.0000	1.0000
L49	22	CCI-060100	3.00 - 3.75	1.0000	1.0000
L49	27	CCI-065125	3.00 - 3.75	1.0000	1.0000
L49	28	CCI-065125	3.00 - 3.75	1.0000	1.0000
L49	29	CCI-065125	3.00 - 3.75	1.0000	1.0000
L49	40	CCI-085125	3.00 - 3.75	1.0000	1.0000
L49	41	CCI-085125	3.00 - 3.75	1.0000	1.0000
L49	42	CCI-085125	3.00 - 3.75	1.0000	1.0000
L50	2	HCS 6X12 4AWG(1-5/8)	2.75 - 3.00	1.0000	1.0000
L50	3	HB158-21U6S24-xxM_TMO(1-5/8)	2.75 - 3.00	1.0000	1.0000
L50	20	CCI-060100	2.75 - 3.00	1.0000	1.0000
L50	21	CCI-060100	2.75 - 3.00	1.0000	1.0000
L50	22	CCI-060100	2.75 - 3.00	1.0000	1.0000
L50	27	CCI-065125	2.75 - 3.00	1.0000	1.0000
L50	28	CCI-065125	2.75 - 3.00	1.0000	1.0000
L50	29	CCI-065125	2.75 - 3.00	1.0000	1.0000
L50	40	CCI-085125	2.75 - 3.00	1.0000	1.0000
L50	41	CCI-085125	2.75 - 3.00	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L50	42	CCI-085125	2.75 - 3.00	1.0000	1.0000
L51	2	HCS 6X12 4AWG(1-5/8)	0.00 - 2.75	1.0000	1.0000
L51	3	HB158-21U6S24-xxM_TMO(1-5/8)	0.00 - 2.75	1.0000	1.0000
L51	20	CCI-060100	0.00 - 2.75	1.0000	1.0000
L51	21	CCI-060100	0.00 - 2.75	1.0000	1.0000
L51	22	CCI-060100	0.00 - 2.75	1.0000	1.0000
L51	27	CCI-065125	0.00 - 2.75	1.0000	1.0000
L51	28	CCI-065125	0.00 - 2.75	1.0000	1.0000
L51	29	CCI-065125	0.00 - 2.75	1.0000	1.0000
L51	40	CCI-085125	0.00 - 2.75	1.0000	1.0000
L51	41	CCI-085125	0.00 - 2.75	1.0000	1.0000
L51	42	CCI-085125	0.00 - 2.75	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
L8	48	CCI-045100	95.00 - 96.00	Auto	0.0000
L8	49	CCI-045100	95.00 - 96.00	Auto	0.0000
L8	50	CCI-045100	95.00 - 96.00	Auto	0.0000
L9	48	CCI-045100	94.50 - 95.00	Auto	0.0000
L9	49	CCI-045100	94.50 - 95.00	Auto	0.0000
L9	50	CCI-045100	94.50 - 95.00	Auto	0.0000
L10	48	CCI-045100	94.25 - 94.50	Auto	0.0000
L10	49	CCI-045100	94.25 - 94.50	Auto	0.0000
L10	50	CCI-045100	94.25 - 94.50	Auto	0.0000
L11	36	CCI-045100	92.08 - 94.08	Auto	0.0000
L11	37	CCI-045100	92.08 - 94.08	Auto	0.0000
L11	38	CCI-045100	92.08 - 94.08	Auto	0.0000
L11	48	CCI-045100	92.08 - 94.25	Auto	0.0000
L11	49	CCI-045100	92.08 - 94.25	Auto	0.0000
L11	50	CCI-045100	92.08 - 94.25	Auto	0.0000
L12	36	CCI-045100	91.83 - 92.08	Auto	0.0144
L12	37	CCI-045100	91.83 - 92.08	Auto	0.0144
L12	38	CCI-045100	91.83 - 92.08	Auto	0.0144
L12	48	CCI-045100	91.83 - 92.08	Auto	0.0144
L12	49	CCI-045100	91.83 - 92.08	Auto	0.0144
L12	50	CCI-045100	91.83 - 92.08	Auto	0.0144
L13	36	CCI-045100	86.83 - 91.83	Auto	0.0000
L13	37	CCI-045100	86.83 - 91.83	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L13	38	CCI-045100	86.83 - 91.83	Auto	0.0000
L13	48	CCI-045100	86.83 - 91.83	Auto	0.0000
L13	49	CCI-045100	86.83 - 91.83	Auto	0.0000
L13	50	CCI-045100	86.83 - 91.83	Auto	0.0000
L14	36	CCI-045100	81.83 - 86.83	Auto	0.0000
L14	37	CCI-045100	81.83 - 86.83	Auto	0.0000
L14	38	CCI-045100	81.83 - 86.83	Auto	0.0000
L14	48	CCI-045100	81.83 - 86.83	Auto	0.0000
L14	49	CCI-045100	81.83 - 86.83	Auto	0.0000
L14	50	CCI-045100	81.83 - 86.83	Auto	0.0000
L15	33	CCI-060100	73.75 - 74.00	Auto	0.0471
L15	34	CCI-060100	73.75 - 74.00	Auto	0.0471
L15	35	CCI-060100	73.75 - 74.00	Auto	0.0471
L15	36	CCI-045100	74.00 - 81.83	Auto	0.0000
L15	37	CCI-045100	74.00 - 81.83	Auto	0.0000
L15	38	CCI-045100	74.00 - 81.83	Auto	0.0000
L15	48	CCI-045100	73.75 - 81.83	Auto	0.0000
L15	49	CCI-045100	73.75 - 81.83	Auto	0.0000
L15	50	CCI-045100	73.75 - 81.83	Auto	0.0000
L16	33	CCI-060100	73.00 - 73.75	Auto	0.1034
L16	34	CCI-060100	73.00 - 73.75	Auto	0.1034
L16	35	CCI-060100	73.00 - 73.75	Auto	0.1034
L16	48	CCI-045100	73.00 - 73.75	Auto	0.0000
L16	49	CCI-045100	73.00 - 73.75	Auto	0.0000
L16	50	CCI-045100	73.00 - 73.75	Auto	0.0000
L17	33	CCI-060100	71.50 - 73.00	Auto	0.0863
L17	34	CCI-060100	71.50 - 73.00	Auto	0.0863
L17	35	CCI-060100	71.50 - 73.00	Auto	0.0863
L17	48	CCI-045100	71.50 - 73.00	Auto	0.0000
L17	49	CCI-045100	71.50 - 73.00	Auto	0.0000
L17	50	CCI-045100	71.50 - 73.00	Auto	0.0000
L18	33	CCI-060100	71.25 - 71.50	Auto	0.1053
L18	34	CCI-060100	71.25 - 71.50	Auto	0.1053
L18	35	CCI-060100	71.25 - 71.50	Auto	0.1053

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L18	48	CCI-045100	71.25 - 71.50	Auto	0.0000
L18	49	CCI-045100	71.25 - 71.50	Auto	0.0000
L18	50	CCI-045100	71.25 - 71.50	Auto	0.0000
L19	33	CCI-060100	68.33 - 71.25	Auto	0.0834
L19	34	CCI-060100	68.33 - 71.25	Auto	0.0834
L19	35	CCI-060100	68.33 - 71.25	Auto	0.0834
L19	43	CCI-085125	68.33 - 70.08	Auto	0.3488
L19	44	CCI-085125	68.33 - 70.80	Auto	0.3514
L19	45	CCI-065125	68.33 - 70.67	Auto	0.1512
L19	46	CCI-065125	68.33 - 70.67	Auto	0.1512
L19	47	CCI-065125	68.33 - 70.67	Auto	0.1512
L19	48	CCI-045100	68.33 - 71.25	Auto	0.0000
L19	49	CCI-045100	68.33 - 71.25	Auto	0.0000
L19	50	CCI-045100	68.33 - 71.25	Auto	0.0000
L20	33	CCI-060100	68.08 - 68.33	Auto	0.0727
L20	34	CCI-060100	68.08 - 68.33	Auto	0.0727
L20	35	CCI-060100	68.08 - 68.33	Auto	0.0727
L20	43	CCI-085125	68.08 - 68.33	Auto	0.3455
L20	44	CCI-085125	68.08 - 68.33	Auto	0.3455
L20	45	CCI-065125	68.08 - 68.33	Auto	0.1441
L20	46	CCI-065125	68.08 - 68.33	Auto	0.1441
L20	47	CCI-065125	68.08 - 68.33	Auto	0.1441
L20	48	CCI-045100	68.08 - 68.33	Auto	0.0000
L20	49	CCI-045100	68.08 - 68.33	Auto	0.0000
L20	50	CCI-045100	68.08 - 68.33	Auto	0.0000
L21	33	CCI-060100	67.92 - 68.08	Auto	0.0706
L21	34	CCI-060100	67.92 - 68.08	Auto	0.0706
L21	35	CCI-060100	67.92 - 68.08	Auto	0.0706
L21	43	CCI-085125	67.92 - 68.08	Auto	0.3440
L21	44	CCI-085125	67.92 - 68.08	Auto	0.3440
L21	45	CCI-065125	67.92 - 68.08	Auto	0.1421
L21	46	CCI-065125	67.92 - 68.08	Auto	0.1421
L21	47	CCI-065125	67.92 - 68.08	Auto	0.1421
L21	48	CCI-045100	67.92 - 68.08	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L21	49	CCI-045100	67.92 - 68.08	Auto	0.0000
L21	50	CCI-045100	67.92 - 68.08	Auto	0.0000
L22	33	CCI-060100	67.67 - 67.92	Auto	0.2248
L22	34	CCI-060100	67.67 - 67.92	Auto	0.2248
L22	35	CCI-060100	67.67 - 67.92	Auto	0.2248
L22	43	CCI-085125	67.67 - 67.92	Auto	0.4528
L22	44	CCI-085125	67.67 - 67.92	Auto	0.4528
L22	45	CCI-065125	67.67 - 67.92	Auto	0.2845
L22	46	CCI-065125	67.67 - 67.92	Auto	0.2845
L22	47	CCI-065125	67.67 - 67.92	Auto	0.2845
L22	48	CCI-045100	67.67 - 67.92	Auto	0.0000
L22	49	CCI-045100	67.67 - 67.92	Auto	0.0000
L22	50	CCI-045100	67.67 - 67.92	Auto	0.0000
L23	33	CCI-060100	67.50 - 67.67	Auto	0.2227
L23	34	CCI-060100	67.50 - 67.67	Auto	0.2227
L23	35	CCI-060100	67.50 - 67.67	Auto	0.2227
L23	43	CCI-085125	67.50 - 67.67	Auto	0.4513
L23	44	CCI-085125	67.50 - 67.67	Auto	0.4513
L23	45	CCI-065125	67.50 - 67.67	Auto	0.2825
L23	46	CCI-065125	67.50 - 67.67	Auto	0.2825
L23	47	CCI-065125	67.50 - 67.67	Auto	0.2825
L23	48	CCI-045100	67.50 - 67.67	Auto	0.0000
L23	49	CCI-045100	67.50 - 67.67	Auto	0.0000
L23	50	CCI-045100	67.50 - 67.67	Auto	0.0000
L24	33	CCI-060100	67.25 - 67.50	Auto	0.1312
L24	34	CCI-060100	67.25 - 67.50	Auto	0.1312
L24	35	CCI-060100	67.25 - 67.50	Auto	0.1312
L24	43	CCI-085125	67.25 - 67.50	Auto	0.3867
L24	44	CCI-085125	67.25 - 67.50	Auto	0.3867
L24	45	CCI-065125	67.25 - 67.50	Auto	0.1980
L24	46	CCI-065125	67.25 - 67.50	Auto	0.1980
L24	47	CCI-065125	67.25 - 67.50	Auto	0.1980
L24	48	CCI-045100	67.25 - 67.50	Auto	0.0000
L24	49	CCI-045100	67.25 - 67.50	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L24	50	CCI-045100	67.25 - 67.50	Auto	0.0000
L25	33	CCI-060100	66.33 - 67.25	Auto	0.1196
L25	34	CCI-060100	66.33 - 67.25	Auto	0.1196
L25	35	CCI-060100	66.33 - 67.25	Auto	0.1196
L25	43	CCI-085125	66.33 - 67.25	Auto	0.3786
L25	44	CCI-085125	66.33 - 67.25	Auto	0.3786
L25	45	CCI-065125	66.33 - 67.25	Auto	0.1874
L25	46	CCI-065125	66.33 - 67.25	Auto	0.1874
L25	47	CCI-065125	66.33 - 67.25	Auto	0.1874
L25	48	CCI-045100	66.33 - 67.25	Auto	0.0000
L25	49	CCI-045100	66.33 - 67.25	Auto	0.0000
L25	50	CCI-045100	66.33 - 67.25	Auto	0.0000
L26	33	CCI-060100	66.08 - 66.33	Auto	0.1862
L26	34	CCI-060100	66.08 - 66.33	Auto	0.1862
L26	35	CCI-060100	66.08 - 66.33	Auto	0.1862
L26	43	CCI-085125	66.08 - 66.33	Auto	0.4256
L26	44	CCI-085125	66.08 - 66.33	Auto	0.4256
L26	45	CCI-065125	66.08 - 66.33	Auto	0.2488
L26	46	CCI-065125	66.08 - 66.33	Auto	0.2488
L26	47	CCI-065125	66.08 - 66.33	Auto	0.2488
L26	48	CCI-045100	66.08 - 66.33	Auto	0.0000
L26	49	CCI-045100	66.08 - 66.33	Auto	0.0000
L26	50	CCI-045100	66.08 - 66.33	Auto	0.0000
L27	33	CCI-060100	61.08 - 66.08	Auto	0.1369
L27	34	CCI-060100	61.08 - 66.08	Auto	0.1369
L27	35	CCI-060100	61.08 - 66.08	Auto	0.1369
L27	43	CCI-085125	61.08 - 66.08	Auto	0.3908
L27	44	CCI-085125	61.08 - 66.08	Auto	0.3908
L27	45	CCI-065125	61.08 - 66.08	Auto	0.2033
L27	46	CCI-065125	61.08 - 66.08	Auto	0.2033
L27	47	CCI-065125	61.08 - 66.08	Auto	0.2033
L27	48	CCI-045100	66.00 - 66.08	Auto	0.0000
L27	49	CCI-045100	66.00 - 66.08	Auto	0.0000
L27	50	CCI-045100	66.00 - 66.08	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L28	23	CCI-060100	56.50 - 59.00	Auto	0.0660
L28	24	CCI-060100	56.50 - 59.00	Auto	0.0660
L28	25	CCI-060100	56.50 - 59.00	Auto	0.0660
L28	33	CCI-060100	56.50 - 61.08	Auto	0.0766
L28	34	CCI-060100	56.50 - 61.08	Auto	0.0766
L28	35	CCI-060100	56.50 - 61.08	Auto	0.0766
L28	43	CCI-085125	56.50 - 61.08	Auto	0.3482
L28	44	CCI-085125	56.50 - 61.08	Auto	0.3482
L28	45	CCI-065125	56.50 - 61.08	Auto	0.1477
L28	46	CCI-065125	56.50 - 61.08	Auto	0.1477
L28	47	CCI-065125	56.50 - 61.08	Auto	0.1477
L29	23	CCI-060100	56.25 - 56.50	Auto	0.0519
L29	24	CCI-060100	56.25 - 56.50	Auto	0.0519
L29	25	CCI-060100	56.25 - 56.50	Auto	0.0519
L29	33	CCI-060100	56.25 - 56.50	Auto	0.0519
L29	34	CCI-060100	56.25 - 56.50	Auto	0.0519
L29	35	CCI-060100	56.25 - 56.50	Auto	0.0519
L29	43	CCI-085125	56.25 - 56.50	Auto	0.3307
L29	44	CCI-085125	56.25 - 56.50	Auto	0.3307
L29	45	CCI-065125	56.25 - 56.50	Auto	0.1248
L29	46	CCI-065125	56.25 - 56.50	Auto	0.1248
L29	47	CCI-065125	56.25 - 56.50	Auto	0.1248
L30	23	CCI-060100	51.25 - 56.25	Auto	0.0151
L30	24	CCI-060100	51.25 - 56.25	Auto	0.0151
L30	25	CCI-060100	51.25 - 56.25	Auto	0.0151
L30	33	CCI-060100	54.00 - 56.25	Auto	0.0279
L30	34	CCI-060100	54.00 - 56.25	Auto	0.0279
L30	35	CCI-060100	54.00 - 56.25	Auto	0.0279
L30	43	CCI-085125	51.25 - 56.25	Auto	0.3038
L30	44	CCI-085125	51.25 - 56.25	Auto	0.3038
L30	45	CCI-065125	51.25 - 56.25	Auto	0.0896
L30	46	CCI-065125	51.25 - 56.25	Auto	0.0896
L30	47	CCI-065125	51.25 - 56.25	Auto	0.0896
L31	23	CCI-060100	46.25 - 51.25	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L31	24	CCI-060100	46.25 - 51.25	Auto	0.0000
L31	25	CCI-060100	46.25 - 51.25	Auto	0.0000
L31	43	CCI-085125	46.25 - 51.25	Auto	0.2597
L31	44	CCI-085125	46.25 - 51.25	Auto	0.2597
L31	45	CCI-065125	46.25 - 51.25	Auto	0.0320
L31	46	CCI-065125	46.25 - 51.25	Auto	0.0320
L31	47	CCI-065125	46.25 - 51.25	Auto	0.0320
L32	23	CCI-060100	39.00 - 46.25	Auto	0.0000
L32	24	CCI-060100	39.00 - 46.25	Auto	0.0000
L32	25	CCI-060100	39.00 - 46.25	Auto	0.0000
L32	30	CCI-065125	36.75 - 40.58	Auto	0.0000
L32	31	CCI-065125	36.75 - 40.58	Auto	0.0000
L32	32	CCI-065125	36.75 - 40.58	Auto	0.0000
L32	43	CCI-085125	36.75 - 46.25	Auto	0.1993
L32	44	CCI-085125	36.75 - 46.25	Auto	0.1993
L32	45	CCI-065125	40.67 - 46.25	Auto	0.0000
L32	46	CCI-065125	40.67 - 46.25	Auto	0.0000
L32	47	CCI-065125	40.67 - 46.25	Auto	0.0000
L33	30	CCI-065125	35.75 - 36.75	Auto	0.0000
L33	31	CCI-065125	35.75 - 36.75	Auto	0.0000
L33	32	CCI-065125	35.75 - 36.75	Auto	0.0000
L33	43	CCI-085125	35.75 - 36.75	Auto	0.1573
L33	44	CCI-085125	35.75 - 36.75	Auto	0.1573
L34	30	CCI-065125	31.25 - 35.75	Auto	0.0000
L34	31	CCI-065125	31.25 - 35.75	Auto	0.0000
L34	32	CCI-065125	31.25 - 35.75	Auto	0.0000
L34	40	CCI-085125	31.25 - 35.00	Auto	0.1307
L34	41	CCI-085125	31.25 - 35.00	Auto	0.1307
L34	42	CCI-085125	31.25 - 35.00	Auto	0.1307
L34	43	CCI-085125	35.00 - 35.75	Auto	0.1470
L34	44	CCI-085125	35.00 - 35.75	Auto	0.1470
L35	30	CCI-065125	31.00 - 31.25	Auto	0.0000
L35	31	CCI-065125	31.00 - 31.25	Auto	0.0000
L35	32	CCI-065125	31.00 - 31.25	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L35	40	CCI-085125	31.00 - 31.25	Auto	0.1358
L35	41	CCI-085125	31.00 - 31.25	Auto	0.1358
L35	42	CCI-085125	31.00 - 31.25	Auto	0.1358
L36	30	CCI-065125	26.00 - 31.00	Auto	0.0000
L36	31	CCI-065125	26.00 - 31.00	Auto	0.0000
L36	32	CCI-065125	26.00 - 31.00	Auto	0.0000
L36	40	CCI-085125	26.00 - 31.00	Auto	0.1089
L36	41	CCI-085125	26.00 - 31.00	Auto	0.1089
L36	42	CCI-085125	26.00 - 31.00	Auto	0.1089
L37	28	CCI-065125	22.00 - 25.50	Auto	0.0000
L37	30	CCI-065125	22.00 - 26.00	Auto	0.0000
L37	31	CCI-065125	22.00 - 26.00	Auto	0.0000
L37	32	CCI-065125	22.00 - 26.00	Auto	0.0000
L37	40	CCI-085125	22.00 - 26.00	Auto	0.0723
L37	41	CCI-085125	22.00 - 26.00	Auto	0.0723
L37	42	CCI-085125	22.00 - 26.00	Auto	0.0723
L38	28	CCI-065125	21.75 - 22.00	Auto	0.0000
L38	30	CCI-065125	21.75 - 22.00	Auto	0.0000
L38	31	CCI-065125	21.75 - 22.00	Auto	0.0000
L38	32	CCI-065125	21.75 - 22.00	Auto	0.0000
L38	40	CCI-085125	21.75 - 22.00	Auto	0.0923
L38	41	CCI-085125	21.75 - 22.00	Auto	0.0923
L38	42	CCI-085125	21.75 - 22.00	Auto	0.0923
L39	20	CCI-060100	19.08 - 20.50	Auto	0.0000
L39	21	CCI-060100	19.08 - 20.50	Auto	0.0000
L39	22	CCI-060100	19.08 - 20.50	Auto	0.0000
L39	27	CCI-065125	19.08 - 20.50	Auto	0.0000
L39	28	CCI-065125	19.08 - 21.75	Auto	0.0000
L39	29	CCI-065125	19.08 - 20.50	Auto	0.0000
L39	30	CCI-065125	20.50 - 21.75	Auto	0.0000
L39	31	CCI-065125	19.08 - 21.75	Auto	0.0000
L39	32	CCI-065125	20.50 - 21.75	Auto	0.0000
L39	40	CCI-085125	19.08 - 21.75	Auto	0.0778
L39	41	CCI-085125	19.08 - 21.75	Auto	0.0778

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L39	42	CCI-085125	19.08 - 21.75	Auto	0.0778
L40	20	CCI-060100	18.83 - 19.08	Auto	0.0000
L40	21	CCI-060100	18.83 - 19.08	Auto	0.0000
L40	22	CCI-060100	18.83 - 19.08	Auto	0.0000
L40	27	CCI-065125	18.83 - 19.08	Auto	0.0000
L40	28	CCI-065125	18.83 - 19.08	Auto	0.0000
L40	29	CCI-065125	18.83 - 19.08	Auto	0.0000
L40	31	CCI-065125	18.83 - 19.08	Auto	0.0000
L40	40	CCI-085125	18.83 - 19.08	Auto	0.0514
L40	41	CCI-085125	18.83 - 19.08	Auto	0.0514
L40	42	CCI-085125	18.83 - 19.08	Auto	0.0514
L41	20	CCI-060100	18.00 - 18.83	Auto	0.0000
L41	21	CCI-060100	18.00 - 18.83	Auto	0.0000
L41	22	CCI-060100	18.00 - 18.83	Auto	0.0000
L41	27	CCI-065125	18.00 - 18.83	Auto	0.0000
L41	28	CCI-065125	18.00 - 18.83	Auto	0.0000
L41	29	CCI-065125	18.00 - 18.83	Auto	0.0000
L41	31	CCI-065125	18.00 - 18.83	Auto	0.0000
L41	40	CCI-085125	18.00 - 18.83	Auto	0.0475
L41	41	CCI-085125	18.00 - 18.83	Auto	0.0475
L41	42	CCI-085125	18.00 - 18.83	Auto	0.0475
L42	20	CCI-060100	17.75 - 18.00	Auto	0.0000
L42	21	CCI-060100	17.75 - 18.00	Auto	0.0000
L42	22	CCI-060100	17.75 - 18.00	Auto	0.0000
L42	27	CCI-065125	17.75 - 18.00	Auto	0.0000
L42	28	CCI-065125	17.75 - 18.00	Auto	0.0000
L42	29	CCI-065125	17.75 - 18.00	Auto	0.0000
L42	31	CCI-065125	17.75 - 18.00	Auto	0.0000
L42	40	CCI-085125	17.75 - 18.00	Auto	0.0830
L42	41	CCI-085125	17.75 - 18.00	Auto	0.0830
L42	42	CCI-085125	17.75 - 18.00	Auto	0.0830
L43	20	CCI-060100	17.00 - 17.75	Auto	0.0000
L43	21	CCI-060100	17.00 - 17.75	Auto	0.0000
L43	22	CCI-060100	17.00 - 17.75	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L43	27	CCI-065125	17.00 - 17.75	Auto	0.0000
L43	28	CCI-065125	17.00 - 17.75	Auto	0.0000
L43	29	CCI-065125	17.00 - 17.75	Auto	0.0000
L43	31	CCI-065125	17.00 - 17.75	Auto	0.0000
L43	40	CCI-085125	17.00 - 17.75	Auto	0.0794
L43	41	CCI-085125	17.00 - 17.75	Auto	0.0794
L43	42	CCI-085125	17.00 - 17.75	Auto	0.0794
L44	20	CCI-060100	16.75 - 17.00	Auto	0.0000
L44	21	CCI-060100	16.75 - 17.00	Auto	0.0000
L44	22	CCI-060100	16.75 - 17.00	Auto	0.0000
L44	27	CCI-065125	16.75 - 17.00	Auto	0.0000
L44	28	CCI-065125	16.75 - 17.00	Auto	0.0000
L44	29	CCI-065125	16.75 - 17.00	Auto	0.0000
L44	31	CCI-065125	16.75 - 17.00	Auto	0.0000
L44	40	CCI-085125	16.75 - 17.00	Auto	0.0757
L44	41	CCI-085125	16.75 - 17.00	Auto	0.0757
L44	42	CCI-085125	16.75 - 17.00	Auto	0.0757
L45	20	CCI-060100	11.75 - 16.75	Auto	0.0000
L45	21	CCI-060100	11.75 - 16.75	Auto	0.0000
L45	22	CCI-060100	11.75 - 16.75	Auto	0.0000
L45	27	CCI-065125	11.75 - 16.75	Auto	0.0000
L45	28	CCI-065125	11.75 - 16.75	Auto	0.0000
L45	29	CCI-065125	11.75 - 16.75	Auto	0.0000
L45	31	CCI-065125	15.58 - 16.75	Auto	0.0000
L45	40	CCI-085125	11.75 - 16.75	Auto	0.0488
L45	41	CCI-085125	11.75 - 16.75	Auto	0.0488
L45	42	CCI-085125	11.75 - 16.75	Auto	0.0488
L46	20	CCI-060100	6.75 - 11.75	Auto	0.0000
L46	21	CCI-060100	6.75 - 11.75	Auto	0.0000
L46	22	CCI-060100	6.75 - 11.75	Auto	0.0000
L46	27	CCI-065125	6.75 - 11.75	Auto	0.0000
L46	28	CCI-065125	6.75 - 11.75	Auto	0.0000
L46	29	CCI-065125	6.75 - 11.75	Auto	0.0000
L46	40	CCI-085125	6.75 - 11.75	Auto	0.0071
L46	41	CCI-085125	6.75 - 11.75	Auto	0.0071
L46	42	CCI-085125	6.75 - 11.75	Auto	0.0071
L47	20	CCI-060100	4.00 - 6.75	Auto	0.0000
L47	21	CCI-060100	4.00 - 6.75	Auto	0.0000
L47	22	CCI-060100	4.00 - 6.75	Auto	0.0000
L47	27	CCI-065125	4.00 - 6.75	Auto	0.0000
L47	28	CCI-065125	4.00 - 6.75	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L47	29	CCI-065125	4.00 - 6.75	Auto	0.0000
L47	40	CCI-085125	4.00 - 6.75	Auto	0.0000
L47	41	CCI-085125	4.00 - 6.75	Auto	0.0000
L47	42	CCI-085125	4.00 - 6.75	Auto	0.0000
L48	20	CCI-060100	3.75 - 4.00	Auto	0.0000
L48	21	CCI-060100	3.75 - 4.00	Auto	0.0000
L48	22	CCI-060100	3.75 - 4.00	Auto	0.0000
L48	27	CCI-065125	3.75 - 4.00	Auto	0.0000
L48	28	CCI-065125	3.75 - 4.00	Auto	0.0000
L48	29	CCI-065125	3.75 - 4.00	Auto	0.0000
L48	40	CCI-085125	3.75 - 4.00	Auto	0.0000
L48	41	CCI-085125	3.75 - 4.00	Auto	0.0000
L48	42	CCI-085125	3.75 - 4.00	Auto	0.0000
L49	20	CCI-060100	3.00 - 3.75	Auto	0.0000
L49	21	CCI-060100	3.00 - 3.75	Auto	0.0000
L49	22	CCI-060100	3.00 - 3.75	Auto	0.0000
L49	27	CCI-065125	3.00 - 3.75	Auto	0.0000
L49	28	CCI-065125	3.00 - 3.75	Auto	0.0000
L49	29	CCI-065125	3.00 - 3.75	Auto	0.0000
L49	40	CCI-085125	3.00 - 3.75	Auto	0.0000
L49	41	CCI-085125	3.00 - 3.75	Auto	0.0000
L49	42	CCI-085125	3.00 - 3.75	Auto	0.0000
L50	20	CCI-060100	2.75 - 3.00	Auto	0.0000
L50	21	CCI-060100	2.75 - 3.00	Auto	0.0000
L50	22	CCI-060100	2.75 - 3.00	Auto	0.0000
L50	27	CCI-065125	2.75 - 3.00	Auto	0.0000
L50	28	CCI-065125	2.75 - 3.00	Auto	0.0000
L50	29	CCI-065125	2.75 - 3.00	Auto	0.0000
L50	40	CCI-085125	2.75 - 3.00	Auto	0.0000
L50	41	CCI-085125	2.75 - 3.00	Auto	0.0000
L50	42	CCI-085125	2.75 - 3.00	Auto	0.0000
L51	20	CCI-060100	0.00 - 2.75	Auto	0.0000
L51	21	CCI-060100	0.00 - 2.75	Auto	0.0000
L51	22	CCI-060100	0.00 - 2.75	Auto	0.0000
L51	27	CCI-065125	0.00 - 2.75	Auto	0.0000
L51	28	CCI-065125	0.00 - 2.75	Auto	0.0000
L51	29	CCI-065125	0.00 - 2.75	Auto	0.0000
L51	40	CCI-085125	0.00 - 2.75	Auto	0.0000
L51	41	CCI-085125	0.00 - 2.75	Auto	0.0000
L51	42	CCI-085125	0.00 - 2.75	Auto	0.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
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Lightning Rod 5/8" x 4'	C	From Leg	0.00 0.00 2.00	0.0000	129.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.25 0.66 0.97 1.49	0.25 0.66 0.97 1.49	0.03 0.03 0.04 0.06
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AIR6449 B41_T-MOBILE w/ Mount Pipe	A	From Leg	4.00 0.00 -1.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.19 5.59 6.02 6.90	2.71 3.04 3.38 4.12	0.13 0.17 0.23 0.35
AIR6449 B41_T-MOBILE w/ Mount Pipe	B	From Leg	4.00 0.00 -1.00	0.0000	126.00	No Ice 1/2" Ice	5.19 5.59 6.02	2.71 3.04 3.38	0.13 0.17 0.23

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						1" Ice 2" Ice	6.90	4.12	0.35
AIR6449 B41_T-MOBILE w/ Mount Pipe	C	From Leg	4.00 0.00 -1.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.19 5.59 6.02 6.90	2.71 3.04 3.38 4.12	0.13 0.17 0.23 0.35
AIR6449 B41_T-MOBILE w/ Mount Pipe	C	From Face	4.00 0.00 -1.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.19 5.59 6.02 6.90	2.71 3.04 3.38 4.12	0.13 0.17 0.23 0.35
APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Leg	4.00 0.00 -1.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	14.69 15.46 16.23 17.82	6.87 7.55 8.25 9.67	0.19 0.31 0.46 0.79
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Leg	4.00 0.00 -1.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	14.69 15.46 16.23 17.82	6.87 7.55 8.25 9.67	0.19 0.31 0.46 0.79
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Leg	4.00 0.00 -1.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	14.69 15.46 16.23 17.82	6.87 7.55 8.25 9.67	0.19 0.31 0.46 0.79
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Face	4.00 0.00 -1.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	14.69 15.46 16.23 17.82	6.87 7.55 8.25 9.67	0.19 0.31 0.46 0.79
RADIO 4449 B71 B85A_T-MOBILE	A	From Leg	4.00 0.00 0.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.97 2.15 2.33 2.72	1.59 1.75 1.92 2.28	0.07 0.09 0.12 0.17
RADIO 4449 B71 B85A_T-MOBILE	B	From Leg	4.00 0.00 0.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.97 2.15 2.33 2.72	1.59 1.75 1.92 2.28	0.07 0.09 0.12 0.17
RADIO 4449 B71 B85A_T-MOBILE	C	From Leg	4.00 0.00 0.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.97 2.15 2.33 2.72	1.59 1.75 1.92 2.28	0.07 0.09 0.12 0.17
RADIO 4449 B71 B85A_T-MOBILE	C	From Face	4.00 0.00 0.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.97 2.15 2.33 2.72	1.59 1.75 1.92 2.28	0.07 0.09 0.12 0.17
RADIO 4460 B2/B25 B66_TMO	A	From Leg	4.00 0.00 0.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.14 2.32 2.51 2.91	1.69 1.85 2.02 2.39	0.11 0.13 0.16 0.22
RADIO 4460 B2/B25 B66_TMO	B	From Leg	4.00 0.00 0.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.14 2.32 2.51 2.91	1.69 1.85 2.02 2.39	0.11 0.13 0.16 0.22
RADIO 4460 B2/B25 B66_TMO	C	From Leg	4.00 0.00 0.00	0.0000	126.00	No Ice 1/2" Ice	2.14 2.32 2.51	1.69 1.85 2.02	0.11 0.13 0.16

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						1" Ice 2" Ice	2.91	2.39	0.22
RADIO 4460 B2/B25 B66_TMO	C	From Face	4.00 0.00 0.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.14 2.32 2.51 2.91	1.69 1.85 2.02 2.39	0.11 0.13 0.16 0.22
(2) 8' x 2" Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.90 2.73 3.40 4.40	1.90 2.73 3.40 4.40	0.03 0.04 0.06 0.12
(2) 8' x 2" Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.90 2.73 3.40 4.40	1.90 2.73 3.40 4.40	0.03 0.04 0.06 0.12
(2) 8' x 2" Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.90 2.73 3.40 4.40	1.90 2.73 3.40 4.40	0.03 0.04 0.06 0.12
(2) 8' x 2" Mount Pipe	C	From Face	4.00 0.00 0.00	0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.90 2.73 3.40 4.40	1.90 2.73 3.40 4.40	0.03 0.04 0.06 0.12
Platform Mount [LP 701-1_HR-1]	C	None		0.0000	126.00	No Ice 1/2" Ice 1" Ice 2" Ice	55.58 62.44 69.14 82.18	55.58 62.44 69.14 82.18	3.08 4.29 5.68 8.98
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MT6407-77A_CCIV2 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	116.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.94 6.47 7.02 8.17	3.10 3.55 4.02 5.01	0.10 0.13 0.18 0.28
MT6407-77A_CCIV2 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	116.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.94 6.47 7.02 8.17	3.10 3.55 4.02 5.01	0.10 0.13 0.18 0.28
MT6407-77A_CCIV2 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	116.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.94 6.47 7.02 8.17	3.10 3.55 4.02 5.01	0.10 0.13 0.18 0.28
NHH-65B-R2B	A	From Leg	4.00 0.00 0.00	0.0000	116.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.16 4.56 4.98 5.84	2.49 2.88 3.27 4.08	0.04 0.09 0.15 0.28
NHH-65B-R2B	B	From Leg	4.00 0.00 0.00	0.0000	116.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.16 4.56 4.98 5.84	2.49 2.88 3.27 4.08	0.04 0.09 0.15 0.28
NHH-65B-R2B	C	From Leg	4.00 0.00 0.00	0.0000	116.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.16 4.56 4.98 5.84	2.49 2.88 3.27 4.08	0.04 0.09 0.15 0.28
NHHSS-65B-R2BT4	A	From Leg	4.00 0.00	0.0000	116.00	No Ice	3.94 4.33	2.36 2.73	0.06 0.11

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.00			1/2" Ice	4.73 5.55	3.11 3.89	0.17 0.30
						1" Ice 2" Ice			
NHHSS-65B-R2BT4	B	From Leg	4.00 0.00 0.00	0.0000	116.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.94 4.33 4.73 5.55	2.36 2.73 3.11 3.89	0.06 0.11 0.17 0.30
NHHSS-65B-R2BT4	C	From Leg	4.00 0.00 0.00	0.0000	116.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.94 4.33 4.73 5.55	2.36 2.73 3.11 3.89	0.06 0.11 0.17 0.30
LNX-8514DS-A1M w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	116.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.56 6.07 6.59 7.65	4.47 4.97 5.47 6.52	0.08 0.17 0.26 0.49
LNX-8514DS-A1M w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	116.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.56 6.07 6.59 7.65	4.47 4.97 5.47 6.52	0.08 0.17 0.26 0.49
LNX-8514DS-A1M w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	116.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.56 6.07 6.59 7.65	4.47 4.97 5.47 6.52	0.08 0.17 0.26 0.49
RVZDC-6627-PF-48_CCIV2	A	From Leg	4.00 0.00 2.00	0.0000	116.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.06 4.32 4.58 5.14	3.10 3.34 3.58 4.09	0.03 0.07 0.11 0.20
RVZDC-6627-PF-48_CCIV2	B	From Leg	4.00 0.00 2.00	0.0000	116.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.06 4.32 4.58 5.14	3.10 3.34 3.58 4.09	0.03 0.07 0.11 0.20
RF4439D-25A	A	From Leg	4.00 0.00 0.00	0.0000	116.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.87 2.03 2.21 2.59	1.25 1.39 1.54 1.87	0.07 0.09 0.11 0.17
RF4439D-25A	B	From Leg	4.00 0.00 0.00	0.0000	116.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.87 2.03 2.21 2.59	1.25 1.39 1.54 1.87	0.07 0.09 0.11 0.17
RF4439D-25A	C	From Leg	4.00 0.00 0.00	0.0000	116.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.87 2.03 2.21 2.59	1.25 1.39 1.54 1.87	0.07 0.09 0.11 0.17
CBRS RT4401-48A	A	From Leg	4.00 0.00 0.00	0.0000	116.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.99 1.12 1.26 1.55	0.50 0.60 0.70 0.94	0.02 0.03 0.04 0.06
CBRS RT4401-48A	B	From Leg	4.00 0.00 0.00	0.0000	116.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.99 1.12 1.26 1.55	0.50 0.60 0.70 0.94	0.02 0.03 0.04 0.06
CBRS RT4401-48A	C	From Leg	4.00	0.0000	116.00	No Ice	0.99	0.50	0.02

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.00			1/2"	1.12	0.60	0.03
			0.00			Ice	1.26	0.70	0.04
						1" Ice	1.55	0.94	0.06
						2" Ice			
RF4440D-13A	A	From Leg	4.00	0.0000	116.00	No Ice	1.87	1.13	0.07
			0.00			1/2"	2.03	1.27	0.09
			0.00			Ice	2.21	1.41	0.11
						1" Ice	2.59	1.72	0.16
						2" Ice			
RF4440D-13A	B	From Leg	4.00	0.0000	116.00	No Ice	1.87	1.13	0.07
			0.00			1/2"	2.03	1.27	0.09
			0.00			Ice	2.21	1.41	0.11
						1" Ice	2.59	1.72	0.16
						2" Ice			
RF4440D-13A	C	From Leg	4.00	0.0000	116.00	No Ice	1.87	1.13	0.07
			0.00			1/2"	2.03	1.27	0.09
			0.00			Ice	2.21	1.41	0.11
						1" Ice	2.59	1.72	0.16
						2" Ice			
8' x 2" Mount Pipe	A	From Leg	4.00	0.0000	116.00	No Ice	1.90	1.90	0.03
			0.00			1/2"	2.73	2.73	0.04
			0.00			Ice	3.40	3.40	0.06
						1" Ice	4.40	4.40	0.12
						2" Ice			
8' x 2" Mount Pipe	B	From Leg	4.00	0.0000	116.00	No Ice	1.90	1.90	0.03
			0.00			1/2"	2.73	2.73	0.04
			0.00			Ice	3.40	3.40	0.06
						1" Ice	4.40	4.40	0.12
						2" Ice			
8' x 2" Mount Pipe	C	From Leg	4.00	0.0000	116.00	No Ice	1.90	1.90	0.03
			0.00			1/2"	2.73	2.73	0.04
			0.00			Ice	3.40	3.40	0.06
						1" Ice	4.40	4.40	0.12
						2" Ice			
Side by Side Antenna Mount	A	From Leg	4.00	0.0000	116.00	No Ice	1.90	1.90	0.03
			0.00			1/2"	2.73	2.73	0.04
			0.00			Ice	3.40	3.40	0.06
						1" Ice	4.40	4.40	0.12
						2" Ice			
Side by Side Antenna Mount	B	From Leg	4.00	0.0000	116.00	No Ice	1.90	1.90	0.03
			0.00			1/2"	2.73	2.73	0.04
			0.00			Ice	3.40	3.40	0.06
						1" Ice	4.40	4.40	0.12
						2" Ice			
Side by Side Antenna Mount	C	From Leg	4.00	0.0000	116.00	No Ice	1.90	1.90	0.03
			0.00			1/2"	2.73	2.73	0.04
			0.00			Ice	3.40	3.40	0.06
						1" Ice	4.40	4.40	0.12
						2" Ice			
Platform Mount [LP 713-1]	C	None		0.0000	116.00	No Ice	32.89	32.89	1.51
						1/2"	35.76	35.76	2.23
						Ice	38.76	38.76	3.03
						1" Ice	45.26	45.26	4.86
						2" Ice			
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(2) BSF0020F3V1	A	From Leg	4.00	0.0000	116.00	No Ice	0.96	0.29	0.02
			0.00			1/2"	1.09	0.36	0.02
			0.00			Ice	1.22	0.45	0.03
						1" Ice	1.50	0.64	0.06
						2" Ice			
BSF0020F3V1	B	From Leg	4.00	0.0000	116.00	No Ice	0.96	0.29	0.02
			0.00			1/2"	1.09	0.36	0.02
			0.00			Ice	1.22	0.45	0.03
						1" Ice	1.50	0.64	0.06
						2" Ice			

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
BSF0020F3V1	C	From Leg	4.00 0.00 0.00	0.0000	116.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.96 1.09 1.22 1.50	0.29 0.36 0.45 0.64	0.02 0.02 0.03 0.06
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NNVV-65B-R4 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	105.00	No Ice 1/2" Ice 1" Ice 2" Ice	7.55 8.04 8.53 9.56	4.23 4.67 5.12 6.05	0.11 0.20 0.30 0.53
NNVV-65B-R4 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	105.00	No Ice 1/2" Ice 1" Ice 2" Ice	7.55 8.04 8.53 9.56	4.23 4.67 5.12 6.05	0.11 0.20 0.30 0.53
NNVV-65B-R4 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	105.00	No Ice 1/2" Ice 1" Ice 2" Ice	7.55 8.04 8.53 9.56	4.23 4.67 5.12 6.05	0.11 0.20 0.30 0.53
APXVTM14-ALU-I20 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	105.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.09 4.48 4.88 5.71	2.86 3.23 3.61 4.40	0.08 0.13 0.19 0.33
APXVTM14-ALU-I20 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	105.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.09 4.48 4.88 5.71	2.86 3.23 3.61 4.40	0.08 0.13 0.19 0.33
APXVTM14-ALU-I20 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	105.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.09 4.48 4.88 5.71	2.86 3.23 3.61 4.40	0.08 0.13 0.19 0.33
PCS 1900MHZ 4X45W-65MHZ	A	From Leg	4.00 0.00 0.00	0.0000	105.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.32 2.53 2.74 3.19	2.24 2.44 2.65 3.09	0.06 0.08 0.11 0.17
PCS 1900MHZ 4X45W-65MHZ	B	From Leg	4.00 0.00 0.00	0.0000	105.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.32 2.53 2.74 3.19	2.24 2.44 2.65 3.09	0.06 0.08 0.11 0.17
PCS 1900MHZ 4X45W-65MHZ	C	From Leg	4.00 0.00 0.00	0.0000	105.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.32 2.53 2.74 3.19	2.24 2.44 2.65 3.09	0.06 0.08 0.11 0.17
(2) RRH2X50-800	A	From Leg	4.00 0.00 0.00	0.0000	105.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.70 1.86 2.03 2.40	1.28 1.43 1.58 1.91	0.05 0.07 0.09 0.14
(2) RRH2X50-800	B	From Leg	4.00 0.00 0.00	0.0000	105.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.70 1.86 2.03 2.40	1.28 1.43 1.58 1.91	0.05 0.07 0.09 0.14
(2) RRH2X50-800	C	From Leg	4.00 0.00 0.00	0.0000	105.00	No Ice 1/2" Ice 1" Ice	1.70 1.86 2.03 2.40	1.28 1.43 1.58 1.91	0.05 0.07 0.09 0.14

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						2" Ice			
FZHN	A	From Leg	4.00 0.00 0.00	0.0000	105.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.02 2.20 2.38 2.77	0.61 0.71 0.83 1.09	0.04 0.06 0.07 0.12
FZHN	B	From Leg	4.00 0.00 0.00	0.0000	105.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.02 2.20 2.38 2.77	0.61 0.71 0.83 1.09	0.04 0.06 0.07 0.12
FZHN	C	From Leg	4.00 0.00 0.00	0.0000	105.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.02 2.20 2.38 2.77	0.61 0.71 0.83 1.09	0.04 0.06 0.07 0.12
8' x 2" Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	105.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.90 2.73 3.40 4.40	1.90 2.73 3.40 4.40	0.03 0.04 0.06 0.12
8' x 2" Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	105.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.90 2.73 3.40 4.40	1.90 2.73 3.40 4.40	0.03 0.04 0.06 0.12
8' x 2" Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	105.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.90 2.73 3.40 4.40	1.90 2.73 3.40 4.40	0.03 0.04 0.06 0.12
10' x 2.375" Horizontal Mount Pipe	A	From Leg	2.00 0.00 0.00	0.0000	105.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.38 3.41 4.45 5.91	0.01 0.05 0.10 0.24	0.04 0.05 0.08 0.15
10' x 2.375" Horizontal Mount Pipe	B	From Leg	2.00 0.00 0.00	0.0000	105.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.38 3.41 4.45 5.91	0.01 0.05 0.10 0.24	0.04 0.05 0.08 0.15
10' x 2.375" Horizontal Mount Pipe	C	From Leg	2.00 0.00 0.00	0.0000	105.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.38 3.41 4.45 5.91	0.01 0.05 0.10 0.24	0.04 0.05 0.08 0.15
T-Arm Mount [TA 702-3]	C	None		0.0000	105.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.75 5.82 6.98 9.72	4.75 5.82 6.98 9.72	0.34 0.43 0.55 0.87
Platform Mount [LP 1201-1_HR-1]	C	None		0.0000	105.00	No Ice 1/2" Ice 1" Ice 2" Ice	26.39 31.40 36.20 45.40	26.39 31.40 36.20 45.40	2.36 3.06 3.86 5.76
******									
7770.00 w/ Mount Pipe	A	From Leg	4.00 0.00 1.00	0.0000	94.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.39 3.75 4.12 4.89	2.32 2.66 3.02 3.75	0.06 0.10 0.15 0.28
7770.00 w/ Mount Pipe	B	From Leg	4.00 0.00 1.00	0.0000	94.00	No Ice 1/2" Ice	3.39 3.75 4.12	2.32 2.66 3.02	0.06 0.10 0.15

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						1" Ice 2" Ice	4.89	3.75	0.28
7770.00 w/ Mount Pipe	C	From Leg	4.00 0.00 1.00	0.0000	94.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.39 3.75 4.12 4.89	2.32 2.66 3.02 3.75	0.06 0.10 0.15 0.28
HPA65R-BU8A w/ Mount Pipe	A	From Leg	4.00 0.00 1.00	0.0000	94.00	No Ice 1/2" Ice 1" Ice 2" Ice	8.10 8.86 9.64 11.24	6.94 7.69 8.45 10.03	0.09 0.17 0.27 0.50
HPA65R-BU8A w/ Mount Pipe	B	From Leg	4.00 0.00 1.00	0.0000	94.00	No Ice 1/2" Ice 1" Ice 2" Ice	8.10 8.86 9.64 11.24	6.94 7.69 8.45 10.03	0.09 0.17 0.27 0.50
HPA65R-BU8A w/ Mount Pipe	C	From Leg	4.00 0.00 1.00	0.0000	94.00	No Ice 1/2" Ice 1" Ice 2" Ice	8.10 8.86 9.64 11.24	6.94 7.69 8.45 10.03	0.09 0.17 0.27 0.50
80010966 w/ Mount Pipe	A	From Leg	4.00 0.00 1.00	0.0000	94.00	No Ice 1/2" Ice 1" Ice 2" Ice	14.61 15.47 16.35 18.14	6.84 7.63 8.42 10.06	0.16 0.27 0.39 0.68
80010966 w/ Mount Pipe	B	From Leg	4.00 0.00 1.00	0.0000	94.00	No Ice 1/2" Ice 1" Ice 2" Ice	14.61 15.47 16.35 18.14	6.84 7.63 8.42 10.06	0.16 0.27 0.39 0.68
80010966 w/ Mount Pipe	C	From Leg	4.00 0.00 1.00	0.0000	94.00	No Ice 1/2" Ice 1" Ice 2" Ice	14.61 15.47 16.35 18.14	6.84 7.63 8.42 10.06	0.16 0.27 0.39 0.68
LGP13519	A	From Leg	4.00 0.00 1.00	0.0000	94.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.29 0.36 0.44 0.62	0.18 0.24 0.31 0.47	0.01 0.01 0.01 0.02
LGP13519	B	From Leg	4.00 0.00 1.00	0.0000	94.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.29 0.36 0.44 0.62	0.18 0.24 0.31 0.47	0.01 0.01 0.01 0.02
LGP13519	C	From Leg	4.00 0.00 1.00	0.0000	94.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.29 0.36 0.44 0.62	0.18 0.24 0.31 0.47	0.01 0.01 0.01 0.02
RRUS 4449 B5/B12	A	From Leg	4.00 0.00 1.00	0.0000	94.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.97 2.14 2.33 2.72	1.41 1.56 1.73 2.07	0.07 0.09 0.11 0.16
RRUS 4449 B5/B12	B	From Leg	4.00 0.00 1.00	0.0000	94.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.97 2.14 2.33 2.72	1.41 1.56 1.73 2.07	0.07 0.09 0.11 0.16
RRUS 4449 B5/B12	C	From Leg	4.00 0.00 1.00	0.0000	94.00	No Ice 1/2" Ice	1.97 2.14 2.33	1.41 1.56 1.73	0.07 0.09 0.11

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						1" Ice 2" Ice	2.72	2.07	0.16
(2) RRUS 8843 B2/B66A	A	From Leg	4.00 0.00 1.00	0.0000	94.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.64 1.80 1.97 2.32	1.35 1.50 1.65 1.99	0.07 0.09 0.11 0.16
(2) RRUS 8843 B2/B66A	B	From Leg	4.00 0.00 1.00	0.0000	94.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.64 1.80 1.97 2.32	1.35 1.50 1.65 1.99	0.07 0.09 0.11 0.16
RRUS 8843 B2/B66A	C	From Leg	4.00 0.00 1.00	0.0000	94.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.64 1.80 1.97 2.32	1.35 1.50 1.65 1.99	0.07 0.09 0.11 0.16
DC6-48-60-18-8F	A	From Leg	1.00 0.00 1.00	0.0000	94.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.92 1.46 1.64 2.04	0.92 1.46 1.64 2.04	0.02 0.04 0.06 0.11
DC6-48-60-18-8F	B	From Leg	1.00 0.00 1.00	0.0000	94.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.92 1.46 1.64 2.04	0.92 1.46 1.64 2.04	0.02 0.04 0.06 0.11
4' x 2" Pipe Mount	A	From Leg	1.00 0.00 0.00	0.0000	94.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.79 1.03 1.28 1.81	0.79 1.03 1.28 1.81	0.03 0.04 0.04 0.07
4' x 2" Pipe Mount	B	From Leg	1.00 0.00 0.00	0.0000	94.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.79 1.03 1.28 1.81	0.79 1.03 1.28 1.81	0.03 0.04 0.04 0.07
4' x 2" Pipe Mount	C	From Leg	1.00 0.00 0.00	0.0000	94.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.79 1.03 1.28 1.81	0.79 1.03 1.28 1.81	0.03 0.04 0.04 0.07
8' x 2" Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	94.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.90 2.73 3.40 4.40	1.90 2.73 3.40 4.40	0.03 0.04 0.06 0.12
8' x 2" Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	94.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.90 2.73 3.40 4.40	1.90 2.73 3.40 4.40	0.03 0.04 0.06 0.12
8' x 2" Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	94.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.90 2.73 3.40 4.40	1.90 2.73 3.40 4.40	0.03 0.04 0.06 0.12
Miscellaneous [NA 510-1]	C	None		0.0000	94.00	No Ice 1/2" Ice 1" Ice 2" Ice	6.36 8.52 10.62 14.64	6.36 8.52 10.62 14.64	0.26 0.34 0.46 0.77
Platform Mount [LP 714-1_KCKR]	C	None		0.0000	94.00	No Ice 1/2" Ice	48.73 55.92 63.28	48.73 55.92 63.28	1.88 2.91 4.06

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						1" Ice 2" Ice	78.53	78.53	6.67
******									
GPS_A	C	From Leg	6.00 0.00 0.00	0.0000	60.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.26 0.32 0.39 0.56	0.26 0.32 0.39 0.56	0.00 0.00 0.01 0.02
Side Arm Mount [SO 702-1]	C	From Leg	3.00 0.00 0.00	0.0000	60.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.62 0.74 0.89 1.25	1.49 2.07 2.54 3.55	0.03 0.04 0.06 0.12
******									
HSS - 6x6x5/8 - 11'	A	From Leg	1.00 0.00 0.00	0.0000	113.17	No Ice 1/2" Ice 1" Ice 2" Ice	10.45 11.24 12.04 13.65	10.45 11.24 12.04 13.65	0.47 0.52 0.59 0.75
HSS - 6x6x5/8 - 11'	B	From Leg	1.00 0.00 0.00	0.0000	113.17	No Ice 1/2" Ice 1" Ice 2" Ice	10.45 11.24 12.04 13.65	10.45 11.24 12.04 13.65	0.47 0.52 0.59 0.75
HSS - 6x6x5/8 - 11'	C	From Leg	1.00 0.00 0.00	0.0000	113.17	No Ice 1/2" Ice 1" Ice 2" Ice	10.45 11.24 12.04 13.65	10.45 11.24 12.04 13.65	0.47 0.52 0.59 0.75
(2) Weldment - 27"x1."x10"	A	From Leg	0.50 0.00 0.00	0.0000	109.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.38 0.55 0.72 1.09	2.27 2.47 2.68 3.13	0.08 0.09 0.10 0.14
(2) Weldment - 27"x1."x10"	B	From Leg	0.50 0.00 0.00	0.0000	109.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.38 0.55 0.72 1.09	2.27 2.47 2.68 3.13	0.08 0.09 0.10 0.14
(2) Weldment - 27"x1."x10"	C	From Leg	0.50 0.00 0.00	0.0000	109.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.38 0.55 0.72 1.09	2.27 2.47 2.68 3.13	0.08 0.09 0.10 0.14
(2) Weldment - 27"x1."x10"	A	From Leg	0.50 0.00 0.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.38 0.55 0.72 1.09	2.27 2.47 2.68 3.13	0.08 0.09 0.10 0.14
(2) Weldment - 27"x1."x10"	B	From Leg	0.50 0.00 0.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.38 0.55 0.72 1.09	2.27 2.47 2.68 3.13	0.08 0.09 0.10 0.14
(2) Weldment - 27"x1."x10"	C	From Leg	0.50 0.00 0.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.38 0.55 0.72 1.09	2.27 2.47 2.68 3.13	0.08 0.09 0.10 0.14
******									

Load Combinations

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

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	129 - 124	Pole	Max Tension	39	0.00	0.00	-0.00
			Max. Compression	26	-14.51	0.03	-7.19
			Max. Mx	20	-6.16	11.22	-2.72
			Max. My	14	-6.15	0.02	-14.68
			Max. Vy	8	6.49	-11.18	-2.72
			Max. Vx	14	6.85	0.02	-14.68
			Max. Torque	8			-4.58
L2	124 - 119	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
			Max. Compression	26	-15.25	0.01	-7.52
			Max. Mx	20	-6.59	45.04	-2.87
			Max. My	14	-6.62	0.01	-49.55
			Max. Vy	8	7.04	-45.01	-2.87
			Max. Vx	14	7.07	0.01	-49.55
			Max. Torque	8			-4.69
L3	119 - 115.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-26.09	-0.63	-7.16
			Max. Mx	8	-10.77	-73.83	-2.70
			Max. My	14	-10.84	-0.09	-77.82
			Max. Vy	8	12.49	-73.83	-2.70
			Max. Vx	14	12.30	-0.09	-77.82
			Max. Torque	8			-5.63
L4	115.5 - 115	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-26.17	-0.63	-7.20
			Max. Mx	8	-10.82	-80.09	-2.72
			Max. My	14	-10.90	-0.09	-83.98
			Max. Vy	8	12.54	-80.09	-2.72
			Max. Vx	14	12.32	-0.09	-83.98
			Max. Torque	8			-5.64
L5	115 - 110	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-29.14	-0.65	-7.61
			Max. Mx	8	-12.77	-149.10	-2.93
			Max. My	14	-12.88	-0.10	-151.38
			Max. Vy	8	14.66	-149.10	-2.93
			Max. Vx	14	14.19	-0.10	-151.38
			Max. Torque	8			-5.76
L6	110 - 105	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-30.67	-0.67	-8.00
			Max. Mx	8	-13.77	-225.01	-3.14
			Max. My	14	-13.90	-0.11	-224.44
			Max. Vy	8	15.53	-225.01	-3.14
			Max. Vx	14	14.82	-0.11	-224.44
			Max. Torque	8			-5.79
L7	105 - 100	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-41.51	-0.69	-8.40
			Max. Mx	8	-18.90	-322.85	-3.24
			Max. My	14	-19.07	-0.12	-318.11
			Max. Vy	8	19.83	-322.85	-3.24
			Max. Vx	14	18.85	-0.12	-318.11
			Max. Torque	8			-6.95
L8	100 - 95	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-42.34	-0.71	-8.77
			Max. Mx	8	-19.54	-423.10	-3.42
			Max. My	14	-19.71	-0.12	-412.96
			Max. Vy	8	20.31	-423.10	-3.42
			Max. Vx	14	19.08	-0.12	-412.96
			Max. Torque	8			-7.05
L9	95 - 94.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-42.44	-0.71	-8.81
			Max. Mx	8	-19.62	-433.25	-3.43
			Max. My	14	-19.79	-0.12	-422.50
			Max. Vy	8	20.35	-433.25	-3.43
			Max. Vx	14	19.09	-0.12	-422.50
			Max. Torque	8			-7.05
L10	94.5 - 94.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-42.50	-0.71	-8.83
			Max. Mx	8	-19.67	-438.34	-3.44
			Max. My	14	-19.84	-0.12	-427.28
			Max. Vy	8	20.37	-438.34	-3.44
			Max. Vx	14	19.10	-0.12	-427.28
			Max. Torque	8			-7.05
L11	94.25 - 92.083	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-54.52	-1.48	-8.55
			Max. Mx	8	-24.28	-496.69	-3.20
			Max. My	14	-24.48	-0.51	-482.15
			Max. Vy	8	26.30	-496.69	-3.20
			Max. Vx	14	24.89	-0.51	-482.15

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			-8.34
L12	92.083 - 91.833	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-54.61	-1.48	-8.57
			Max. Mx	8	-24.35	-503.26	-3.21
			Max. My	14	-24.56	-0.51	-488.37
			Max. Vy	8	26.32	-503.26	-3.21
			Max. Vx	14	24.90	-0.51	-488.37
			Max. Torque	8			-8.34
L13	91.833 - 86.833	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-56.34	-1.49	-8.94
			Max. Mx	8	-25.54	-636.47	-3.40
			Max. My	14	-25.76	-0.52	-613.88
			Max. Vy	8	26.98	-636.47	-3.40
			Max. Vx	14	25.28	-0.52	-613.88
			Max. Torque	8			-8.37
L14	86.833 - 81.833	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-58.09	-1.50	-9.31
			Max. Mx	8	-26.78	-772.95	-3.58
			Max. My	14	-27.00	-0.52	-741.23
			Max. Vy	8	27.64	-772.95	-3.58
			Max. Vx	14	25.64	-0.52	-741.23
			Max. Torque	8			-8.41
L15	81.833 - 73.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-59.46	-1.51	-9.59
			Max. Mx	8	-27.75	-879.77	-3.72
			Max. My	14	-27.97	-0.53	-840.08
			Max. Vy	8	28.13	-879.77	-3.72
			Max. Vx	14	25.92	-0.53	-840.08
			Max. Torque	8			-8.43
L16	73.75 - 73	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-62.42	-1.52	-9.95
			Max. Mx	8	-29.93	-1022.32	-3.89
			Max. My	14	-30.16	-0.53	-970.94
			Max. Vy	8	28.90	-1022.32	-3.89
			Max. Vx	14	26.39	-0.53	-970.94
			Max. Torque	8			-8.47
L17	73 - 71.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-63.02	-1.52	-10.06
			Max. Mx	8	-30.36	-1065.80	-3.95
			Max. My	14	-30.59	-0.53	-1010.62
			Max. Vy	8	29.11	-1065.80	-3.95
			Max. Vx	14	26.51	-0.53	-1010.62
			Max. Torque	8			-8.48
L18	71.5 - 71.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-63.12	-1.52	-10.08
			Max. Mx	8	-30.46	-1073.07	-3.96
			Max. My	14	-30.68	-0.53	-1017.25
			Max. Vy	8	29.12	-1073.07	-3.96
			Max. Vx	14	26.51	-0.53	-1017.25
			Max. Torque	8			-8.48
L19	71.25 - 68.33	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-64.48	-1.49	-10.30
			Max. Mx	8	-31.35	-1158.68	-4.06
			Max. My	14	-31.57	-0.53	-1095.04
			Max. Vy	8	29.54	-1158.68	-4.06
			Max. Vx	14	26.75	-0.53	-1095.04
			Max. Torque	8			-8.50
L20	68.33 - 68.08	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-64.61	-1.49	-10.32
			Max. Mx	8	-31.45	-1166.06	-4.07
			Max. My	14	-31.67	-0.53	-1101.74
			Max. Vy	8	29.56	-1166.06	-4.07
			Max. Vx	14	26.75	-0.53	-1101.74

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			-8.50
L21	68.08 - 67.9167	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-64.69	-1.48	-10.33
			Max. Mx	8	-31.51	-1170.89	-4.07
			Max. My	14	-31.73	-0.53	-1106.11
			Max. Vy	8	29.58	-1170.89	-4.07
			Max. Vx	14	26.77	-0.53	-1106.11
			Max. Torque	8			-8.50
L22	67.9167 - 67.6667	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-64.84	-1.48	-10.35
			Max. Mx	8	-31.61	-1178.29	-4.08
			Max. My	14	-31.83	-0.53	-1112.81
			Max. Vy	8	29.62	-1178.29	-4.08
			Max. Vx	14	26.79	-0.53	-1112.81
			Max. Torque	8			-8.50
L23	67.6667 - 67.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-64.94	-1.48	-10.36
			Max. Mx	8	-31.68	-1183.23	-4.09
			Max. My	14	-31.90	-0.53	-1117.28
			Max. Vy	8	29.64	-1183.23	-4.09
			Max. Vx	14	26.81	-0.53	-1117.28
			Max. Torque	8			-8.50
L24	67.5 - 67.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-65.07	-1.47	-10.38
			Max. Mx	8	-31.76	-1190.64	-4.09
			Max. My	14	-31.99	-0.53	-1123.99
			Max. Vy	8	29.68	-1190.64	-4.09
			Max. Vx	14	26.83	-0.53	-1123.99
			Max. Torque	8			-8.50
L25	67.25 - 66.33	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-65.55	-1.46	-10.45
			Max. Mx	8	-32.08	-1218.01	-4.13
			Max. My	14	-32.31	-0.53	-1148.73
			Max. Vy	8	29.82	-1218.01	-4.13
			Max. Vx	14	26.91	-0.53	-1148.73
			Max. Torque	8			-8.50
L26	66.33 - 66.08	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-65.71	-1.45	-10.47
			Max. Mx	8	-32.20	-1225.46	-4.14
			Max. My	14	-32.43	-0.53	-1155.47
			Max. Vy	8	29.85	-1225.46	-4.14
			Max. Vx	14	26.94	-0.53	-1155.47
			Max. Torque	8			-8.50
L27	66.08 - 61.08	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-68.64	-1.37	-10.84
			Max. Mx	8	-34.39	-1376.54	-4.31
			Max. My	14	-34.61	-0.54	-1291.36
			Max. Vy	8	30.60	-1376.54	-4.31
			Max. Vx	14	27.38	-0.54	-1291.36
			Max. Torque	8			-8.51
L28	61.08 - 56.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-71.54	-0.87	-11.43
			Max. Mx	8	-36.46	-1518.20	-4.54
			Max. My	14	-36.68	-0.42	-1418.05
			Max. Vy	8	31.32	-1518.20	-4.54
			Max. Vx	14	27.85	-0.42	-1418.05
			Max. Torque	8			-8.63
L29	56.5 - 56.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-71.70	-0.86	-11.45
			Max. Mx	8	-36.58	-1526.03	-4.55
			Max. My	14	-36.80	-0.42	-1425.02
			Max. Vy	8	31.35	-1526.03	-4.55
			Max. Vx	14	27.86	-0.42	-1425.02

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			-8.63
L30	56.25 - 51.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-74.75	-0.77	-11.82
			Max. Mx	8	-38.83	-1684.55	-4.73
			Max. My	14	-39.04	-0.42	-1565.51
			Max. Vy	8	32.08	-1684.55	-4.73
			Max. Vx	14	28.30	-0.42	-1565.51
			Max. Torque	8			-8.64
L31	51.25 - 46.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-77.76	-0.68	-12.20
			Max. Mx	8	-41.12	-1846.66	-4.91
			Max. My	14	-41.32	-0.42	-1708.13
			Max. Vy	8	32.79	-1846.66	-4.91
			Max. Vx	14	28.72	-0.42	-1708.13
			Max. Torque	8			-8.65
L32	46.25 - 36.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-80.32	-0.62	-12.49
			Max. Mx	8	-43.10	-1986.92	-5.06
			Max. My	14	-43.28	-0.43	-1831.01
			Max. Vy	8	33.25	-1986.92	-5.06
			Max. Vx	14	29.07	-0.43	-1831.01
			Max. Torque	8			-8.65
L33	36.75 - 35.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-86.21	-0.53	-12.91
			Max. Mx	8	-47.81	-2197.19	-5.29
			Max. My	14	-47.98	-0.43	-2014.84
			Max. Vy	8	34.04	-2197.19	-5.29
			Max. Vx	14	29.70	-0.43	-2014.84
			Max. Torque	8			-8.64
L34	35.75 - 31.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-88.69	-0.58	-13.17
			Max. Mx	8	-49.76	-2351.26	-5.45
			Max. My	14	-49.91	-0.43	-2149.26
			Max. Vy	8	34.48	-2351.26	-5.45
			Max. Vx	14	30.02	-0.43	-2149.26
			Max. Torque	8			-8.64
L35	31.25 - 31	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-88.84	-0.58	-13.19
			Max. Mx	8	-49.89	-2359.88	-5.46
			Max. My	14	-50.04	-0.43	-2156.77
			Max. Vy	8	34.48	-2359.88	-5.46
			Max. Vx	14	30.02	-0.43	-2156.77
			Max. Torque	8			-8.64
L36	31 - 26	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-91.84	-0.65	-13.44
			Max. Mx	8	-52.28	-2533.43	-5.64
			Max. My	14	-52.41	-0.43	-2307.92
			Max. Vy	8	34.97	-2533.43	-5.64
			Max. Vx	14	30.39	-0.43	-2307.92
			Max. Torque	8			-8.64
L37	26 - 22	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-94.30	-0.67	-13.70
			Max. Mx	8	-54.23	-2673.94	-5.79
			Max. My	14	-54.34	-0.43	-2430.11
			Max. Vy	8	35.32	-2673.94	-5.79
			Max. Vx	14	30.67	-0.43	-2430.11
			Max. Torque	8			-8.64
L38	22 - 21.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-94.46	-0.67	-13.71
			Max. Mx	8	-54.37	-2682.77	-5.80
			Max. My	14	-54.48	-0.43	-2437.78
			Max. Vy	8	35.33	-2682.77	-5.80
			Max. Vx	14	30.67	-0.43	-2437.78
			Max. Torque	8			-8.64

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L39	21.75 - 19.0833	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-96.24	-0.68	-13.89
			Max. Mx	8	-55.75	-2777.29	-5.89
			Max. My	14	-55.85	-0.43	-2519.90
			Max. Vy	8	35.59	-2777.29	-5.89
			Max. Vx	14	30.87	-0.43	-2519.90
			Max. Torque	8			-8.64
L40	19.0833 - 18.8333	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-96.40	-0.68	-13.91
			Max. Mx	8	-55.89	-2786.19	-5.90
			Max. My	14	-55.98	-0.43	-2527.62
			Max. Vy	8	35.60	-2786.19	-5.90
			Max. Vx	14	30.87	-0.43	-2527.62
			Max. Torque	8			-8.64
L41	18.8333 - 18	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-96.94	-0.68	-13.97
			Max. Mx	8	-56.30	-2815.88	-5.93
			Max. My	14	-56.38	-0.43	-2553.39
			Max. Vy	8	35.68	-2815.88	-5.93
			Max. Vx	14	30.94	-0.43	-2553.39
			Max. Torque	8			-8.64
L42	18 - 17.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-97.12	-0.68	-13.98
			Max. Mx	8	-56.44	-2824.80	-5.94
			Max. My	14	-56.53	-0.43	-2561.14
			Max. Vy	8	35.69	-2824.80	-5.94
			Max. Vx	14	30.95	-0.43	-2561.14
			Max. Torque	8			-8.64
L43	17.75 - 17	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-97.66	-0.68	-14.03
			Max. Mx	8	-56.86	-2851.59	-5.97
			Max. My	14	-56.94	-0.43	-2584.39
			Max. Vy	8	35.77	-2851.59	-5.97
			Max. Vx	14	31.00	-0.43	-2584.39
			Max. Torque	8			-8.64
L44	17 - 16.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-97.84	-0.68	-14.05
			Max. Mx	8	-57.01	-2860.53	-5.98
			Max. My	14	-57.09	-0.43	-2592.15
			Max. Vy	8	35.78	-2860.53	-5.98
			Max. Vx	14	31.01	-0.43	-2592.15
			Max. Torque	8			-8.64
L45	16.75 - 11.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-101.39	-0.73	-14.46
			Max. Mx	8	-59.84	-3040.45	-6.17
			Max. My	14	-59.89	-0.43	-2748.21
			Max. Vy	8	36.21	-3040.45	-6.17
			Max. Vx	14	31.36	-0.43	-2748.21
			Max. Torque	8			-8.64
L46	11.75 - 6.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-104.93	-0.78	-14.89
			Max. Mx	8	-62.70	-3222.40	-6.35
			Max. My	14	-62.73	-0.43	-2905.93
			Max. Vy	8	36.61	-3222.40	-6.35
			Max. Vx	14	31.69	-0.43	-2905.93
			Max. Torque	8			-8.64
L47	6.75 - 4	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-106.88	-0.80	-15.13
			Max. Mx	8	-64.29	-3323.32	-6.46
			Max. My	14	-64.31	-0.43	-2993.39
			Max. Vy	8	36.83	-3323.32	-6.46
			Max. Vx	2	-31.88	-0.43	2980.38
			Max. Torque	8			-8.64
L48	4 - 3.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-107.05	-0.81	-15.15
			Max. Mx	8	-64.45	-3332.52	-6.46

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. My	14	-64.46	-0.43	-3001.36
			Max. Vy	8	36.83	-3332.52	-6.46
			Max. Vx	2	-31.88	-0.43	2988.33
			Max. Torque	8			-8.64
L49	3.75 - 3	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-107.57	-0.81	-15.21
			Max. Mx	8	-64.87	-3360.17	-6.49
			Max. My	14	-64.89	-0.43	-3025.32
			Max. Vy	8	36.90	-3360.17	-6.49
			Max. Vx	2	-31.94	-0.43	3012.23
			Max. Torque	8			-8.64
L50	3 - 2.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-107.75	-0.82	-15.23
			Max. Mx	8	-65.03	-3369.39	-6.50
			Max. My	14	-65.04	-0.43	-3033.31
			Max. Vy	8	36.91	-3369.39	-6.50
			Max. Vx	2	-31.95	-0.43	3020.20
			Max. Torque	8			-8.64
L51	2.75 - 0	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-109.68	-0.84	-15.45
			Max. Mx	8	-66.64	-3471.20	-6.61
			Max. My	14	-66.65	-0.43	-3121.53
			Max. Vy	8	37.16	-3471.20	-6.61
			Max. Vx	2	-32.16	-0.43	3108.21
			Max. Torque	8			-8.64

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	26	109.68	-0.00	-0.00
	Max. H_x	21	49.99	37.13	0.00
	Max. H_z	2	66.66	0.00	32.14
	Max. M_x	2	3108.21	0.00	32.14
	Max. M_z	8	3471.20	-37.13	0.00
	Max. Torsion	20	8.64	37.13	0.00
	Min. Vert	5	49.99	-15.99	27.70
	Min. H_x	8	66.66	-37.13	0.00
	Min. H_z	14	66.66	0.00	-32.14
	Min. M_x	14	-3121.53	0.00	-32.14
	Min. M_z	20	-3469.94	37.13	0.00
	Min. Torsion	8	-8.64	-37.13	0.00

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	55.55	0.00	0.00	5.42	-0.35	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	66.66	0.00	-32.14	-3108.21	-0.43	0.48
0.9 Dead+1.0 Wind 0 deg - No Ice	49.99	0.00	-32.14	-3074.32	-0.32	0.48
1.2 Dead+1.0 Wind 30 deg - No Ice	66.66	15.99	-27.70	-2675.45	-1549.02	-2.40
0.9 Dead+1.0 Wind 30 deg - No Ice	49.99	15.99	-27.70	-2646.55	-1531.18	-2.44
1.2 Dead+1.0 Wind 60 deg - No Ice	66.66	29.31	-16.92	-1592.16	-2769.70	3.05

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
0.9 Dead+1.0 Wind 60 deg - No Ice	49.99	29.31	-16.92	-1575.91	-2738.37	2.98
1.2 Dead+1.0 Wind 90 deg - No Ice	66.66	37.13	0.00	6.61	-3471.20	8.64
0.9 Dead+1.0 Wind 90 deg - No Ice	49.99	37.13	0.00	4.86	-3432.40	8.55
1.2 Dead+1.0 Wind 120 deg - No Ice	66.66	28.93	16.70	1590.49	-2743.67	2.57
0.9 Dead+1.0 Wind 120 deg - No Ice	49.99	28.93	16.70	1570.81	-2712.54	2.50
1.2 Dead+1.0 Wind 150 deg - No Ice	66.66	16.02	27.75	2693.64	-1551.69	-3.22
0.9 Dead+1.0 Wind 150 deg - No Ice	49.99	16.02	27.75	2661.14	-1533.85	-3.27
1.2 Dead+1.0 Wind 180 deg - No Ice	66.66	0.00	32.14	3121.53	-0.43	-0.48
0.9 Dead+1.0 Wind 180 deg - No Ice	49.99	0.00	32.14	3084.10	-0.32	-0.48
1.2 Dead+1.0 Wind 210 deg - No Ice	66.66	-15.99	27.69	2687.83	1547.47	2.40
0.9 Dead+1.0 Wind 210 deg - No Ice	49.99	-15.99	27.69	2655.38	1529.89	2.44
1.2 Dead+1.0 Wind 240 deg - No Ice	66.66	-29.31	16.92	1605.47	2768.76	-3.05
0.9 Dead+1.0 Wind 240 deg - No Ice	49.99	-29.31	16.92	1585.68	2737.66	-2.98
1.2 Dead+1.0 Wind 270 deg - No Ice	66.66	-37.13	0.00	6.61	3469.94	-8.64
0.9 Dead+1.0 Wind 270 deg - No Ice	49.99	-37.13	0.00	4.86	3431.37	-8.55
1.2 Dead+1.0 Wind 300 deg - No Ice	66.66	-28.93	-16.70	-1577.08	2742.71	-2.57
0.9 Dead+1.0 Wind 300 deg - No Ice	49.99	-28.93	-16.70	-1560.94	2711.82	-2.50
1.2 Dead+1.0 Wind 330 deg - No Ice	66.66	-16.02	-27.75	-2679.80	1550.66	3.23
0.9 Dead+1.0 Wind 330 deg - No Ice	49.99	-16.02	-27.75	-2650.85	1533.03	3.27
1.2 Dead+1.0 Ice+1.0 Temp	109.68	0.00	0.00	15.45	-0.84	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	109.68	0.00	-8.06	-808.59	-0.85	0.08
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	109.68	4.01	-6.95	-694.88	-411.04	-0.32
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	109.68	6.97	-4.02	-393.85	-710.00	0.89
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	109.68	8.79	0.00	15.57	-884.76	2.10
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	109.68	6.95	4.01	424.40	-708.93	0.81
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	109.68	4.02	6.97	727.29	-411.74	-0.45
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	109.68	0.00	8.06	839.75	-0.85	-0.07
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	109.68	-4.01	6.95	726.04	409.33	0.33
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	109.68	-6.97	4.02	425.01	708.30	-0.88
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	109.68	-8.78	0.00	15.57	882.99	-2.10
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	109.68	-6.95	-4.01	-393.22	707.22	-0.81
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	109.68	-4.02	-6.97	-696.10	410.05	0.46
Dead+Wind 0 deg - Service	55.55	0.00	-7.83	-748.04	-0.36	0.12
Dead+Wind 30 deg - Service	55.55	3.90	-6.75	-643.35	-374.99	-0.59
Dead+Wind 60 deg - Service	55.55	7.14	-4.12	-381.31	-670.37	0.74
Dead+Wind 90 deg - Service	55.55	9.04	0.00	5.52	-840.24	2.11
Dead+Wind 120 deg - Service	55.55	7.05	4.07	388.71	-664.06	0.62

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
Dead+Wind 150 deg - Service	55.55	3.90	6.76	655.55	-375.65	-0.80
Dead+Wind 180 deg - Service	55.55	0.00	7.83	759.08	-0.36	-0.12
Dead+Wind 210 deg - Service	55.55	-3.89	6.74	654.15	374.12	0.59
Dead+Wind 240 deg - Service	55.55	-7.14	4.12	392.35	669.64	-0.74
Dead+Wind 270 deg - Service	55.55	-9.04	0.00	5.52	839.43	-2.11
Dead+Wind 300 deg - Service	55.55	-7.05	-4.07	-377.65	663.32	-0.62
Dead+Wind 330 deg - Service	55.55	-3.90	-6.76	-644.40	374.88	0.80

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	-55.55	0.00	0.00	55.55	-0.00	0.000%
2	0.00	-66.66	-32.14	0.00	66.66	32.14	0.000%
3	0.00	-49.99	-32.14	0.00	49.99	32.14	0.000%
4	15.99	-66.66	-27.70	-15.99	66.66	27.70	0.000%
5	15.99	-49.99	-27.70	-15.99	49.99	27.70	0.000%
6	29.31	-66.66	-16.92	-29.31	66.66	16.92	0.000%
7	29.31	-49.99	-16.92	-29.31	49.99	16.92	0.000%
8	37.13	-66.66	0.00	-37.13	66.66	0.00	0.000%
9	37.13	-49.99	0.00	-37.13	49.99	0.00	0.000%
10	28.93	-66.66	16.70	-28.93	66.66	-16.70	0.000%
11	28.93	-49.99	16.70	-28.93	49.99	-16.70	0.000%
12	16.02	-66.66	27.75	-16.02	66.66	-27.75	0.000%
13	16.02	-49.99	27.75	-16.02	49.99	-27.75	0.000%
14	0.00	-66.66	32.14	0.00	66.66	-32.14	0.000%
15	0.00	-49.99	32.14	0.00	49.99	-32.14	0.000%
16	-15.99	-66.66	27.69	15.99	66.66	-27.69	0.000%
17	-15.99	-49.99	27.69	15.99	49.99	-27.69	0.000%
18	-29.31	-66.66	16.92	29.31	66.66	-16.92	0.000%
19	-29.31	-49.99	16.92	29.31	49.99	-16.92	0.000%
20	-37.13	-66.66	0.00	37.13	66.66	0.00	0.000%
21	-37.13	-49.99	0.00	37.13	49.99	0.00	0.000%
22	-28.93	-66.66	-16.70	28.93	66.66	16.70	0.000%
23	-28.93	-49.99	-16.70	28.93	49.99	16.70	0.000%
24	-16.02	-66.66	-27.75	16.02	66.66	27.75	0.000%
25	-16.02	-49.99	-27.75	16.02	49.99	27.75	0.000%
26	0.00	-109.68	0.00	-0.00	109.68	-0.00	0.000%
27	0.00	-109.68	-8.06	-0.00	109.68	8.06	0.000%
28	4.01	-109.68	-6.95	-4.01	109.68	6.95	0.000%
29	6.97	-109.68	-4.02	-6.97	109.68	4.02	0.000%
30	8.79	-109.68	0.00	-8.79	109.68	-0.00	0.000%
31	6.95	-109.68	4.01	-6.95	109.68	-4.01	0.000%
32	4.02	-109.68	6.97	-4.02	109.68	-6.97	0.000%
33	0.00	-109.68	8.06	-0.00	109.68	-8.06	0.000%
34	-4.01	-109.68	6.95	4.01	109.68	-6.95	0.000%
35	-6.97	-109.68	4.02	6.97	109.68	-4.02	0.000%
36	-8.78	-109.68	0.00	8.78	109.68	-0.00	0.000%
37	-6.95	-109.68	-4.01	6.95	109.68	4.01	0.000%
38	-4.02	-109.68	-6.97	4.02	109.68	6.97	0.000%
39	0.00	-55.55	-7.83	0.00	55.55	7.83	0.000%
40	3.90	-55.55	-6.75	-3.90	55.55	6.75	0.000%
41	7.14	-55.55	-4.12	-7.14	55.55	4.12	0.000%
42	9.04	-55.55	0.00	-9.04	55.55	0.00	0.000%
43	7.05	-55.55	4.07	-7.05	55.55	-4.07	0.000%
44	3.90	-55.55	6.76	-3.90	55.55	-6.76	0.000%
45	0.00	-55.55	7.83	0.00	55.55	-7.83	0.000%
46	-3.89	-55.55	6.74	3.89	55.55	-6.74	0.000%

Load Comb.	Sum of Applied Forces PX K	PY K	PZ K	Sum of Reactions PX K	PY K	PZ K	% Error
47	-7.14	-55.55	4.12	7.14	55.55	-4.12	0.000%
48	-9.04	-55.55	0.00	9.04	55.55	0.00	0.000%
49	-7.05	-55.55	-4.07	7.05	55.55	4.07	0.000%
50	-3.90	-55.55	-6.76	3.90	55.55	6.76	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00001490
2	Yes	5	0.00000001	0.00041747
3	Yes	5	0.00000001	0.00018787
4	Yes	6	0.00000001	0.00081537
5	Yes	6	0.00000001	0.00028148
6	Yes	6	0.00000001	0.00083511
7	Yes	6	0.00000001	0.00028725
8	Yes	6	0.00000001	0.00031161
9	Yes	6	0.00000001	0.00010986
10	Yes	6	0.00000001	0.00093543
11	Yes	6	0.00000001	0.00032355
12	Yes	6	0.00000001	0.00093686
13	Yes	6	0.00000001	0.00032642
14	Yes	5	0.00000001	0.00042069
15	Yes	5	0.00000001	0.00018890
16	Yes	6	0.00000001	0.00091164
17	Yes	6	0.00000001	0.00031715
18	Yes	6	0.00000001	0.00095855
19	Yes	6	0.00000001	0.00033144
20	Yes	6	0.00000001	0.00031154
21	Yes	6	0.00000001	0.00010986
22	Yes	6	0.00000001	0.00083041
23	Yes	6	0.00000001	0.00028656
24	Yes	6	0.00000001	0.00080388
25	Yes	6	0.00000001	0.00027711
26	Yes	5	0.00000001	0.00041515
27	Yes	7	0.00000001	0.00016318
28	Yes	7	0.00000001	0.00018462
29	Yes	7	0.00000001	0.00018438
30	Yes	7	0.00000001	0.00018197
31	Yes	7	0.00000001	0.00019795
32	Yes	7	0.00000001	0.00020054
33	Yes	7	0.00000001	0.00017785
34	Yes	7	0.00000001	0.00019892
35	Yes	7	0.00000001	0.00019688
36	Yes	7	0.00000001	0.00018064
37	Yes	7	0.00000001	0.00018305
38	Yes	7	0.00000001	0.00018382
39	Yes	4	0.00000001	0.00099526
40	Yes	5	0.00000001	0.00020981
41	Yes	5	0.00000001	0.00021342
42	Yes	5	0.00000001	0.00029359
43	Yes	5	0.00000001	0.00028402
44	Yes	5	0.00000001	0.00029803
45	Yes	5	0.00000001	0.00005541
46	Yes	5	0.00000001	0.00027608
47	Yes	5	0.00000001	0.00029787
48	Yes	5	0.00000001	0.00029285
49	Yes	5	0.00000001	0.00021050
50	Yes	5	0.00000001	0.00020907

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	129 - 124	18.333	42	1.4619	0.0321
L2	124 - 119	16.802	42	1.4607	0.0307
L3	119 - 115.5	15.280	42	1.4436	0.0272
L4	115.5 - 115	14.231	42	1.4189	0.0246
L5	115 - 110	14.082	42	1.4155	0.0243
L6	110 - 105	12.635	42	1.3438	0.0197
L7	105 - 100	11.277	42	1.2455	0.0159
L8	100 - 95	10.035	42	1.1242	0.0121
L9	95 - 94.5	8.930	42	0.9840	0.0087
L10	94.5 - 94.25	8.827	42	0.9693	0.0084
L11	94.25 - 92.083	8.777	42	0.9655	0.0083
L12	92.083 - 91.833	8.346	42	0.9305	0.0075
L13	91.833 - 86.833	8.298	42	0.9277	0.0075
L14	86.833 - 81.833	7.358	42	0.8666	0.0063
L15	81.833 - 73.75	6.486	42	0.7987	0.0053
L16	78 - 73	5.866	42	0.7436	0.0046
L17	73 - 71.5	5.106	42	0.7036	0.0041
L18	71.5 - 71.25	4.888	42	0.6832	0.0039
L19	71.25 - 68.33	4.853	42	0.6801	0.0039
L20	68.33 - 68.08	4.448	42	0.6421	0.0035
L21	68.08 - 67.9167	4.415	42	0.6389	0.0035
L22	67.9167 - 67.6667	4.393	42	0.6368	0.0035
L23	67.6667 - 67.5	4.360	42	0.6346	0.0034
L24	67.5 - 67.25	4.338	42	0.6331	0.0034
L25	67.25 - 66.33	4.305	42	0.6304	0.0034
L26	66.33 - 66.08	4.184	42	0.6204	0.0033
L27	66.08 - 61.08	4.152	42	0.6181	0.0033
L28	61.08 - 56.5	3.530	42	0.5691	0.0029
L29	56.5 - 56.25	3.006	42	0.5235	0.0025
L30	56.25 - 51.25	2.979	42	0.5210	0.0025
L31	51.25 - 46.25	2.460	42	0.4707	0.0022
L32	46.25 - 36.75	1.993	42	0.4199	0.0018
L33	42 - 35.75	1.639	42	0.3763	0.0016
L34	35.75 - 31.25	1.169	42	0.3368	0.0014
L35	31.25 - 31	0.876	42	0.2855	0.0011
L36	31 - 26	0.861	42	0.2829	0.0011
L37	26 - 22	0.592	42	0.2296	0.0009
L38	22 - 21.75	0.418	42	0.1874	0.0007
L39	21.75 - 19.0833	0.408	42	0.1851	0.0007
L40	19.0833 - 18.8333	0.312	42	0.1603	0.0006
L41	18.8333 - 18	0.303	42	0.1579	0.0006
L42	18 - 17.75	0.276	42	0.1498	0.0005
L43	17.75 - 17	0.269	42	0.1477	0.0005
L44	17 - 16.75	0.246	42	0.1414	0.0005
L45	16.75 - 11.75	0.239	42	0.1392	0.0005
L46	11.75 - 6.75	0.115	42	0.0964	0.0003
L47	6.75 - 4	0.037	42	0.0536	0.0002
L48	4 - 3.75	0.013	42	0.0306	0.0001
L49	3.75 - 3	0.011	42	0.0285	0.0001
L50	3 - 2.75	0.007	42	0.0224	0.0001
L51	2.75 - 0	0.006	42	0.0205	0.0001

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
129.00	Lightning Rod 5/8" x 4'	42	18.333	1.4619	0.0321	21181
126.00	AIR6449 B41_T-MOBILE w/ Mount Pipe	42	17.414	1.4622	0.0314	21181

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
117.00	(2) Weldment - 27"x1."x10"	42	14.678	1.4296	0.0256	6311
116.00	MT6407-77A_CCIV2 w/ Mount Pipe	42	14.379	1.4223	0.0249	5570
113.17	HSS - 6x6x5/8 - 11'	42	13.544	1.3960	0.0228	4011
109.00	(2) Weldment - 27"x1."x10"	42	12.355	1.3255	0.0189	2977
105.00	NNVV-65B-R4 w/ Mount Pipe	42	11.277	1.2455	0.0159	2530
94.00	7770.00 w/ Mount Pipe	42	8.726	0.9618	0.0082	2807
60.00	GPS_A	42	3.403	0.5582	0.0028	5783

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	129 - 124	75.842	8	6.0578	0.1314
L2	124 - 119	69.511	8	6.0529	0.1257
L3	119 - 115.5	63.213	8	5.9823	0.1112
L4	115.5 - 115	58.871	8	5.8796	0.1007
L5	115 - 110	58.257	8	5.8656	0.0994
L6	110 - 105	52.269	8	5.5683	0.0808
L7	105 - 100	46.652	8	5.1602	0.0653
L8	100 - 95	41.510	8	4.6567	0.0494
L9	95 - 94.5	36.937	8	4.0741	0.0356
L10	94.5 - 94.25	36.514	8	4.0131	0.0344
L11	94.25 - 92.083	36.304	8	3.9972	0.0341
L12	92.083 - 91.833	34.524	8	3.8524	0.0309
L13	91.833 - 86.833	34.323	8	3.8408	0.0306
L14	86.833 - 81.833	30.434	8	3.5874	0.0259
L15	81.833 - 73.75	26.826	8	3.3060	0.0217
L16	78 - 73	24.264	8	3.0778	0.0187
L17	73 - 71.5	21.119	8	2.9120	0.0169
L18	71.5 - 71.25	20.218	8	2.8277	0.0160
L19	71.25 - 68.33	20.070	8	2.8145	0.0159
L20	68.33 - 68.08	18.397	8	2.6573	0.0144
L21	68.08 - 67.9167	18.259	8	2.6440	0.0142
L22	67.9167 - 67.6667	18.168	8	2.6354	0.0142
L23	67.6667 - 67.5	18.031	8	2.6261	0.0141
L24	67.5 - 67.25	17.939	8	2.6199	0.0140
L25	67.25 - 66.33	17.802	8	2.6087	0.0139
L26	66.33 - 66.08	17.304	8	2.5674	0.0135
L27	66.08 - 61.08	17.170	8	2.5577	0.0135
L28	61.08 - 56.5	14.598	8	2.3547	0.0118
L29	56.5 - 56.25	12.431	8	2.1659	0.0103
L30	56.25 - 51.25	12.318	8	2.1557	0.0103
L31	51.25 - 46.25	10.170	8	1.9473	0.0088
L32	46.25 - 36.75	8.242	8	1.7370	0.0075
L33	42 - 35.75	6.776	8	1.5566	0.0065
L34	35.75 - 31.25	4.831	8	1.3928	0.0056
L35	31.25 - 31	3.619	8	1.1806	0.0046
L36	31 - 26	3.558	8	1.1698	0.0045
L37	26 - 22	2.449	8	0.9494	0.0036
L38	22 - 21.75	1.726	8	0.7748	0.0028
L39	21.75 - 19.0833	1.686	8	0.7653	0.0028
L40	19.0833 - 18.8333	1.287	8	0.6626	0.0024
L41	18.8333 - 18	1.253	8	0.6525	0.0023
L42	18 - 17.75	1.142	8	0.6193	0.0022
L43	17.75 - 17	1.110	8	0.6105	0.0022
L44	17 - 16.75	1.016	8	0.5843	0.0021
L45	16.75 - 11.75	0.986	8	0.5755	0.0020
L46	11.75 - 6.75	0.476	8	0.3982	0.0014
L47	6.75 - 4	0.152	8	0.2215	0.0007
L48	4 - 3.75	0.052	8	0.1265	0.0004
L49	3.75 - 3	0.046	8	0.1179	0.0004
L50	3 - 2.75	0.029	8	0.0924	0.0003

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L51	2.75 - 0	0.024	8	0.0847	0.0003

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
129.00	Lightning Rod 5/8" x 4'	8	75.842	6.0578	0.1314	7286
126.00	AIR6449 B41_T-MOBILE w/ Mount Pipe	8	72.042	6.0589	0.1288	7286
117.00	(2) Weldment - 27"x1."x10"	8	60.723	5.9241	0.1049	1728
116.00	MT6407-77A_CCIV2 w/ Mount Pipe	8	59.487	5.8938	0.1020	1504
113.17	HSS - 6x6x5/8 - 11'	8	56.031	5.7848	0.0934	1052
109.00	(2) Weldment - 27"x1."x10"	8	51.112	5.4924	0.0773	763
105.00	NNVV-65B-R4 w/ Mount Pipe	8	46.652	5.1602	0.0653	639
94.00	7770.00 w/ Mount Pipe	8	36.096	3.9821	0.0337	683
60.00	GPS_A	8	14.071	2.3099	0.0114	1401

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	129 - 124 (1)	TP16x16x0.375	5.00	0.00	0.0	18.4078	-6.15	579.85	0.011
L2	124 - 119 (2)	TP16x16x0.375	5.00	0.00	0.0	18.4078	-6.62	579.85	0.011
L3	119 - 115.5 (3)	TP16x16x0.375	3.50	0.00	0.0	18.4078	-10.84	579.85	0.019
L4	115.5 - 115 (4)	TP17.81x16x0.375	0.50	0.00	0.0	18.4078	-10.85	579.85	0.019
L5	115 - 110 (5)	TP18.9603x17.81x0.2188	5.00	0.00	0.0	13.2011	-12.88	772.26	0.017
L6	110 - 105 (6)	TP20.1106x18.9603x0.2188	5.00	0.00	0.0	14.0113	-13.77	819.66	0.017
L7	105 - 100 (7)	TP21.2609x20.1106x0.2188	5.00	0.00	0.0	14.8216	-18.90	867.06	0.022
L8	100 - 95 (8)	TP22.4112x21.2609x0.2188	5.00	0.00	0.0	15.6318	-19.54	914.46	0.021
L9	95 - 94.5 (9)	TP22.5262x22.4112x0.2188	0.50	0.00	0.0	15.7128	-19.62	919.20	0.021
L10	94.5 - 94.25 (10)	TP22.5838x22.5262x0.4375	0.25	0.00	0.0	31.1985	-19.67	1825.11	0.011
L11	94.25 - 92.083 (11)	TP23.0823x22.5838x0.4313	2.17	0.00	0.0	31.4538	-24.28	1840.05	0.013
L12	92.083 - 91.833 (12)	TP23.1398x23.0823x0.6563	0.25	0.00	0.0	47.5106	-24.35	2779.37	0.009
L13	91.833 - 86.833 (13)	TP24.2901x23.1398x0.6313	5.00	0.00	0.0	48.0896	-25.54	2813.24	0.009
L14	86.833 - 81.833 (14)	TP25.4404x24.2901x0.6063	5.00	0.00	0.0	48.4794	-26.78	2836.05	0.009
L15	81.833 - 73.75 (15)	TP27.3x25.4404x0.5938	8.08	0.00	0.0	49.1897	-27.75	2877.60	0.010
L16	73.75 - 73 (16)	TP27.0333x25.8847x0.6875	5.00	0.00	0.0	58.3229	-29.93	3411.89	0.009
L17	73 - 71.5 (17)	TP27.3778x27.0333x0.675	1.50	0.00	0.0	58.0386	-30.36	3395.26	0.009

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L18	71.5 - 71.25 (18)	TP27.4352x27.3778x0.7375	0.25	0.00	0.0	63.4005	-30.46	3708.93	0.008
L19	71.25 - 68.33 (19)	TP28.106x27.4352x0.725	2.92	0.00	0.0	63.9209	-31.35	3739.37	0.008
L20	68.33 - 68.08 (20)	TP28.1634x28.106x0.7375	0.25	0.00	0.0	65.1297	-31.45	3810.08	0.008
L21	68.08 - 67.9167 (21)	TP28.2009x28.1634x0.7375	0.16	0.00	0.0	65.2187	-31.51	3815.30	0.008
L22	67.9167 - 67.6667 (22)	TP28.2583x28.2009x1.0875	0.25	0.00	0.0	95.1455	-31.61	5566.01	0.006
L23	67.6667 - 67.5 (23)	TP28.2966x28.2583x1.0875	0.17	0.00	0.0	95.2796	-31.68	5573.85	0.006
L24	67.5 - 67.25 (24)	TP28.3541x28.2966x0.8875	0.25	0.00	0.0	78.4925	-31.76	4591.81	0.007
L25	67.25 - 66.33 (25)	TP28.5654x28.3541x0.875	0.92	0.00	0.0	78.0176	-32.08	4564.03	0.007
L26	66.33 - 66.08 (26)	TP28.6228x28.5654x1.0375	0.25	0.00	0.0	92.1556	-32.20	5391.10	0.006
L27	66.08 - 61.08 (27)	TP29.7713x28.6228x0.9875	5.00	0.00	0.0	91.5254	-34.39	5354.23	0.006
L28	61.08 - 56.5 (28)	TP30.8234x29.7713x0.9625	4.58	0.00	0.0	92.5463	-36.46	5413.96	0.007
L29	56.5 - 56.25 (29)	TP30.8808x30.8234x0.9625	0.25	0.00	0.0	92.7243	-36.58	5424.37	0.007
L30	56.25 - 51.25 (30)	TP32.0293x30.8808x0.9375	5.00	0.00	0.0	93.8584	-38.83	5490.72	0.007
L31	51.25 - 46.25 (31)	TP33.1778x32.0293x0.9125	5.00	0.00	0.0	94.8036	-41.12	5546.01	0.007
L32	46.25 - 36.75 (32)	TP35.36x33.1778x0.8875	9.50	0.00	0.0	95.0675	-43.10	5561.45	0.008
L33	36.75 - 35.75 (33)	TP34.9682x33.5291x0.8125	6.25	0.00	0.0	89.3598	-47.81	5227.55	0.009
L34	35.75 - 31.25 (34)	TP36.0044x34.9682x0.8	4.50	0.00	0.0	90.6864	-49.76	5305.16	0.009
L35	31.25 - 31 (35)	TP36.0619x36.0044x0.8625	0.25	0.00	0.0	97.7576	-49.89	5718.82	0.009
L36	31 - 26 (36)	TP37.2132x36.0619x0.8375	5.00	0.00	0.0	98.0962	-52.28	5738.63	0.009
L37	26 - 22 (37)	TP38.1343x37.2132x0.825	4.00	0.00	0.0	99.1121	-54.23	5798.06	0.009
L38	22 - 21.75 (38)	TP38.1918x38.1343x0.9375	0.25	0.00	0.0	112.4620	-54.37	6579.00	0.008
L39	21.75 - 19.0833 (39)	TP38.8059x38.1918x0.925	2.67	0.00	0.0	112.8280	-55.75	6600.45	0.008
L40	19.0833 - 18.8333 (40)	TP38.8634x38.8059x0.875	0.25	0.00	0.0	107.0320	-55.89	6261.40	0.009
L41	18.8333 - 18 (41)	TP39.0553x38.8634x0.875	0.83	0.00	0.0	107.5730	-56.30	6293.02	0.009
L42	18 - 17.75 (42)	TP39.1129x39.0553x1	0.25	0.00	0.0	122.7230	-56.44	7179.32	0.008
L43	17.75 - 17 (43)	TP39.2856x39.1129x1	0.75	0.00	0.0	123.2800	-56.86	7211.85	0.008
L44	17 - 16.75 (44)	TP39.3431x39.2856x1	0.25	0.00	0.0	123.4650	-57.01	7222.70	0.008
L45	16.75 - 11.75 (45)	TP40.4944x39.3431x0.975	5.00	0.00	0.0	124.0710	-59.84	7258.17	0.008
L46	11.75 - 6.75 (46)	TP41.6457x40.4944x0.95	5.00	0.00	0.0	123.7840	-62.14	7241.36	0.009
L47	6.75 - 4 (47)	TP42.279x41.6457x0.95	2.75	0.00	0.0	124.4880	-62.73	7282.56	0.009
L48	4 - 3.75 (48)	TP42.3365x42.279x0.95	0.25	0.00	0.0	126.4250	-64.31	7395.88	0.009
L49	3.75 - 3 (49)	TP42.5092x42.3365x0.95	0.75	0.00	0.0	126.6010	-64.46	7406.18	0.009
L50	3 - 2.75 (50)	TP42.5668x42.5092x1.05	0.25	0.00	0.0	140.1740	-64.88	8200.16	0.008
L51	2.75 - 0 (51)	TP43.2x42.5668x1.05	2.75	0.00	0.0	140.3680	-65.04	8211.54	0.008

Pole Bending Design Data

Section No.	Elevation	Size	M_{ux}	ϕM_{nx}	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy}	ϕM_{ny}	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
	ft		kip-ft	kip-ft		kip-ft	kip-ft	
L1	129 - 124 (1)	TP16x16x0.375	14.68	240.37	0.061	0.00	240.37	0.000
L2	124 - 119 (2)	TP16x16x0.375	49.55	240.37	0.206	0.00	240.37	0.000
L3	119 - 115.5 (3)	TP16x16x0.375	77.82	240.37	0.324	0.00	240.37	0.000
L4	115.5 - 115 (4)	TP17.81x16x0.375	77.82	240.37	0.324	0.00	240.37	0.000
L5	115 - 110 (5)	TP18.9603x17.81x0.2188	151.38	365.37	0.414	0.00	365.37	0.000
L6	110 - 105 (6)	TP20.1106x18.9603x0.2188	225.03	404.04	0.557	0.00	404.04	0.000
L7	105 - 100 (7)	TP21.2609x20.1106x0.2188	322.87	443.62	0.728	0.00	443.62	0.000
L8	100 - 95 (8)	TP22.4112x21.2609x0.2188	423.11	483.95	0.874	0.00	483.95	0.000
L9	95 - 94.5 (9)	TP22.5262x22.4112x0.2188	433.27	488.02	0.888	0.00	488.02	0.000
L10	94.5 - 94.25 (10)	TP22.5838x22.5262x0.4375	438.35	1025.51	0.427	0.00	1025.51	0.000
L11	94.25 - 92.083 (11)	TP23.0823x22.5838x0.4313	496.70	1058.21	0.469	0.00	1058.21	0.000
L12	92.083 - 91.833 (12)	TP23.1398x23.0823x0.6563	503.27	1570.95	0.320	0.00	1570.95	0.000
L13	91.833 - 86.833 (13)	TP24.2901x23.1398x0.6313	636.48	1677.30	0.379	0.00	1677.30	0.000
L14	86.833 - 81.833 (14)	TP25.4404x24.2901x0.6063	772.96	1778.83	0.435	0.00	1778.83	0.000
L15	81.833 - 73.75 (15)	TP27.3x25.4404x0.5938	879.77	1872.33	0.470	0.00	1872.33	0.000
L16	73.75 - 73 (16)	TP27.0333x25.8847x0.6875	1022.33	2266.54	0.451	0.00	2266.54	0.000
L17	73 - 71.5 (17)	TP27.3778x27.0333x0.675	1065.81	2287.88	0.466	0.00	2287.88	0.000
L18	71.5 - 71.25 (18)	TP27.4352x27.3778x0.7375	1073.08	2493.07	0.430	0.00	2493.07	0.000
L19	71.25 - 68.33 (19)	TP28.106x27.4352x0.725	1158.68	2580.73	0.449	0.00	2580.73	0.000
L20	68.33 - 68.08 (20)	TP28.1634x28.106x0.7375	1166.07	2632.79	0.443	0.00	2632.79	0.000
L21	68.08 - 67.9167 (21)	TP28.2009x28.1634x0.7375	1170.90	2640.09	0.444	0.00	2640.09	0.000
L22	67.9167 - 67.6667 (22)	TP28.2583x28.2009x1.0875	1178.30	3762.26	0.313	0.00	3762.26	0.000
L23	67.6667 - 67.5 (23)	TP28.2966x28.2583x1.0875	1183.23	3773.07	0.314	0.00	3773.07	0.000
L24	67.5 - 67.25 (24)	TP28.3541x28.2966x0.8875	1190.65	3160.99	0.377	0.00	3160.99	0.000
L25	67.25 - 66.33 (25)	TP28.5654x28.3541x0.875	1218.02	3169.66	0.384	0.00	3169.66	0.000
L26	66.33 - 66.08 (26)	TP28.6228x28.5654x1.0375	1225.47	3708.22	0.330	0.00	3708.22	0.000
L27	66.08 - 61.08 (27)	TP29.7713x28.6228x0.9875	1376.55	3855.15	0.357	0.00	3855.15	0.000
L28	61.08 - 56.5 (28)	TP30.8234x29.7713x0.9625	1518.20	4052.14	0.375	0.00	4052.14	0.000
L29	56.5 - 56.25 (29)	TP30.8808x30.8234x0.9625	1526.03	4067.99	0.375	0.00	4067.99	0.000
L30	56.25 - 51.25 (30)	TP32.0293x30.8808x0.9375	1684.55	4287.64	0.393	0.00	4287.64	0.000
L31	51.25 - 46.25 (31)	TP33.1778x32.0293x0.9125	1846.67	4502.47	0.410	0.00	4502.47	0.000
L32	46.25 - 36.75 (32)	TP35.36x33.1778x0.8875	1986.93	4662.38	0.426	0.00	4662.38	0.000
L33	36.75 - 35.75 (33)	TP34.9682x33.5291x0.8125	2197.20	4512.28	0.487	0.00	4512.28	0.000
L34	35.75 - 31.25 (34)	TP36.0044x34.9682x0.8	2351.27	4724.77	0.498	0.00	4724.77	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 $\frac{M_{uy}}{\phi M_{ny}}$
L35	31.25 - 31 (35)	TP36.0619x36.0044x0.8625	2359.88	5083.63	0.464	0.00	5083.63	0.000
L36	31 - 26 (36)	TP37.2132x36.0619x0.8375	2533.44	5279.34	0.480	0.00	5279.34	0.000
L37	26 - 22 (37)	TP38.1343x37.2132x0.825	2673.94	5475.78	0.488	0.00	5475.78	0.000
L38	22 - 21.75 (38)	TP38.1918x38.1343x0.9375	2682.78	6185.69	0.434	0.00	6185.69	0.000
L39	21.75 - 19.0833 (39)	TP38.8059x38.1918x0.925	2777.30	6314.83	0.440	0.00	6314.83	0.000
L40	19.0833 - 18.8333 (40)	TP38.8634x38.8059x0.875	2786.19	6015.59	0.463	0.00	6015.59	0.000
L41	18.8333 - 18 (41)	TP39.0553x38.8634x0.875	2815.88	6077.20	0.463	0.00	6077.20	0.000
L42	18 - 17.75 (42)	TP39.1129x39.0553x1	2824.80	6898.47	0.409	0.00	6898.47	0.000
L43	17.75 - 17 (43)	TP39.2856x39.1129x1	2851.59	6961.93	0.410	0.00	6961.93	0.000
L44	17 - 16.75 (44)	TP39.3431x39.2856x1	2860.53	6983.15	0.410	0.00	6983.15	0.000
L45	16.75 - 11.75 (45)	TP40.4944x39.3431x0.975	3040.46	7242.67	0.420	0.00	7242.67	0.000
L46	11.75 - 6.75 (46)	TP41.6457x40.4944x0.95	3185.86	7407.51	0.430	0.00	7407.51	0.000
L47	6.75 - 4 (47)	TP42.279x41.6457x0.95	3222.41	7493.03	0.430	0.00	7493.03	0.000
L48	4 - 3.75 (48)	TP42.3365x42.279x0.95	3323.32	7730.72	0.430	0.00	7730.72	0.000
L49	3.75 - 3 (49)	TP42.5092x42.3365x0.95	3332.53	7752.52	0.430	0.00	7752.52	0.000
L50	3 - 2.75 (50)	TP42.5668x42.5092x1.05	3360.18	8578.83	0.392	0.00	8578.83	0.000
L51	2.75 - 0 (51)	TP43.2x42.5668x1.05	3369.40	8602.92	0.392	0.00	8602.92	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	129 - 124 (1)	TP16x16x0.375	6.85	173.95	0.039	0.01	238.96	0.000
L2	124 - 119 (2)	TP16x16x0.375	7.07	173.95	0.041	0.01	238.96	0.000
L3	119 - 115.5 (3)	TP16x16x0.375	12.30	173.95	0.071	0.47	238.96	0.002
L4	115.5 - 115 (4)	TP17.81x16x0.375	12.32	194.10	0.063	0.47	238.96	0.002
L5	115 - 110 (5)	TP18.9603x17.81x0.2188	14.19	231.68	0.061	0.47	381.94	0.001
L6	110 - 105 (6)	TP20.1106x18.9603x0.2188	15.53	245.90	0.063	5.76	430.26	0.013
L7	105 - 100 (7)	TP21.2609x20.1106x0.2188	19.83	260.12	0.076	6.95	481.46	0.014
L8	100 - 95 (8)	TP22.4112x21.2609x0.2188	20.31	274.34	0.074	7.05	535.54	0.013
L9	95 - 94.5 (9)	TP22.5262x22.4112x0.2188	20.35	275.76	0.074	7.05	541.11	0.013
L10	94.5 - 94.25 (10)	TP22.5838x22.5262x0.4375	20.37	547.53	0.037	7.05	1066.62	0.007
L11	94.25 - 92.083 (11)	TP23.0823x22.5838x0.4313	26.30	552.01	0.048	8.34	1099.87	0.008
L12	92.083 - 91.833 (12)	TP23.1398x23.0823x0.6563	26.32	833.81	0.032	8.34	1649.04	0.005
L13	91.833 - 86.833 (13)	TP24.2901x23.1398x0.6313	26.98	843.97	0.032	8.37	1756.39	0.005
L14	86.833 - 81.833 (14)	TP25.4404x24.2901x0.6063	27.64	850.81	0.032	8.41	1858.59	0.005
L15	81.833 - 73.75 (15)	TP27.3x25.4404x0.5938	28.13	863.28	0.033	8.44	1953.73	0.004
L16	73.75 - 73 (16)	TP27.0333x25.8847x0.6875	28.90	1023.57	0.028	8.47	2372.07	0.004

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L17	73 - 71.5 (17)	TP27.3778x27.0333x0.675	29.11	1018.58	0.029	8.48	2392.49	0.004
L18	71.5 - 71.25 (18)	TP27.4352x27.3778x0.7375	29.12	1112.68	0.026	8.48	2613.03	0.003
L19	71.25 - 68.33 (19)	TP28.106x27.4352x0.725	29.54	1121.81	0.026	8.50	2701.89	0.003
L20	68.33 - 68.08 (20)	TP28.1634x28.106x0.7375	29.56	1143.03	0.026	8.50	2757.51	0.003
L21	68.08 - 67.9167 (21)	TP28.2009x28.1634x0.7375	29.58	1144.59	0.026	8.50	2765.06	0.003
L22	67.9167 - 67.6667 (22)	TP28.2583x28.2009x1.0875	29.62	1669.80	0.018	8.50	3990.88	0.002
L23	67.6667 - 67.5 (23)	TP28.2966x28.2583x1.0875	29.64	1672.16	0.018	8.50	4002.13	0.002
L24	67.5 - 67.25 (24)	TP28.3541x28.2966x0.8875	29.68	1377.54	0.022	8.50	3328.20	0.003
L25	67.25 - 66.33 (25)	TP28.5654x28.3541x0.875	29.82	1369.21	0.022	8.50	3335.03	0.003
L26	66.33 - 66.08 (26)	TP28.6228x28.5654x1.0375	29.85	1617.33	0.018	8.50	3924.43	0.002
L27	66.08 - 61.08 (27)	TP29.7713x28.6228x0.9875	30.60	1606.27	0.019	8.51	4066.93	0.002
L28	61.08 - 56.5 (28)	TP30.8234x29.7713x0.9625	31.32	1624.19	0.019	8.63	4266.18	0.002
L29	56.5 - 56.25 (29)	TP30.8808x30.8234x0.9625	31.35	1627.31	0.019	8.63	4282.59	0.002
L30	56.25 - 51.25 (30)	TP32.0293x30.8808x0.9375	32.08	1647.21	0.019	8.64	4505.01	0.002
L31	51.25 - 46.25 (31)	TP33.1778x32.0293x0.9125	32.79	1663.80	0.020	8.65	4722.12	0.002
L32	46.25 - 36.75 (32)	TP35.36x33.1778x0.8875	33.25	1668.43	0.020	8.64	4882.22	0.002
L33	36.75 - 35.75 (33)	TP34.9682x33.5291x0.8125	34.04	1568.26	0.022	8.64	4711.75	0.002
L34	35.75 - 31.25 (34)	TP36.0044x34.9682x0.8	34.48	1591.55	0.022	8.64	4928.51	0.002
L35	31.25 - 31 (35)	TP36.0619x36.0044x0.8625	34.48	1715.65	0.020	8.64	5312.06	0.002
L36	31 - 26 (36)	TP37.2132x36.0619x0.8375	34.97	1721.59	0.020	8.64	5508.60	0.002
L37	26 - 22 (37)	TP38.1343x37.2132x0.825	35.32	1739.42	0.020	8.64	5708.47	0.002
L38	22 - 21.75 (38)	TP38.1918x38.1343x0.9375	35.33	1973.70	0.018	8.64	6467.82	0.001
L39	21.75 - 19.0833 (39)	TP38.8059x38.1918x0.925	35.59	1980.13	0.018	8.64	6598.03	0.001
L40	19.0833 - 18.8333 (40)	TP38.8634x38.8059x0.875	35.60	1878.42	0.019	8.64	6276.87	0.001
L41	18.8333 - 18 (41)	TP39.0553x38.8634x0.875	35.68	1887.91	0.019	8.64	6340.45	0.001
L42	18 - 17.75 (42)	TP39.1129x39.0553x1	35.69	2153.80	0.017	8.64	7220.65	0.001
L43	17.75 - 17 (43)	TP39.2856x39.1129x1	35.77	2163.56	0.017	8.64	7286.23	0.001
L44	17 - 16.75 (44)	TP39.3431x39.2856x1	35.78	2166.81	0.017	8.64	7308.16	0.001
L45	16.75 - 11.75 (45)	TP40.4944x39.3431x0.975	36.21	2177.45	0.017	8.64	7569.36	0.001
L46	11.75 - 6.75 (46)	TP41.6457x40.4944x0.95	36.61	2184.77	0.017	8.64	7732.61	0.001
L47	6.75 - 4 (47)	TP42.279x41.6457x0.95	36.72	2201.77	0.017	8.64	7820.86	0.001
L48	4 - 3.75 (48)	TP42.3365x42.279x0.95	36.83	2221.85	0.017	8.64	8066.13	0.001
L49	3.75 - 3 (49)	TP42.5092x42.3365x0.95	36.90	2231.13	0.017	8.64	8088.62	0.001
L50	3 - 2.75 (50)	TP42.5668x42.5092x1.05	36.91	2463.46	0.015	8.64	8971.50	0.001
L51	2.75 - 0 (51)	TP43.2x42.5668x1.05	37.04	2482.25	0.015	8.64	8996.42	0.001

Pole Interaction Design Data

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
L1	129 - 124 (1)	0.011	0.061	0.000	0.039	0.000	0.073	1.050	
L2	124 - 119 (2)	0.011	0.206	0.000	0.041	0.000	0.219	1.050	
L3	119 - 115.5 (3)	0.019	0.324	0.000	0.071	0.002	0.348	1.050	
L4	115.5 - 115 (4)	0.019	0.324	0.000	0.063	0.002	0.347	1.050	
L5	115 - 110 (5)	0.017	0.414	0.000	0.061	0.001	0.435	1.050	
L6	110 - 105 (6)	0.017	0.557	0.000	0.063	0.013	0.580	1.050	
L7	105 - 100 (7)	0.022	0.728	0.000	0.076	0.014	0.758	1.050	
L8	100 - 95 (8)	0.021	0.874	0.000	0.074	0.013	0.903	1.050	
L9	95 - 94.5 (9)	0.021	0.888	0.000	0.074	0.013	0.917	1.050	
L10	94.5 - 94.25 (10)	0.011	0.427	0.000	0.037	0.007	0.440	1.050	
L11	94.25 - 92.083 (11)	0.013	0.469	0.000	0.048	0.008	0.486	1.050	
L12	92.083 - 91.833 (12)	0.009	0.320	0.000	0.032	0.005	0.330	1.050	
L13	91.833 - 86.833 (13)	0.009	0.379	0.000	0.032	0.005	0.390	1.050	
L14	86.833 - 81.833 (14)	0.009	0.435	0.000	0.032	0.005	0.445	1.050	
L15	81.833 - 73.75 (15)	0.010	0.470	0.000	0.033	0.004	0.481	1.050	
L16	73.75 - 73 (16)	0.009	0.451	0.000	0.028	0.004	0.461	1.050	
L17	73 - 71.5 (17)	0.009	0.466	0.000	0.029	0.004	0.476	1.050	
L18	71.5 - 71.25 (18)	0.008	0.430	0.000	0.026	0.003	0.440	1.050	
L19	71.25 - 68.33 (19)	0.008	0.449	0.000	0.026	0.003	0.458	1.050	
L20	68.33 - 68.08 (20)	0.008	0.443	0.000	0.026	0.003	0.452	1.050	
L21	68.08 - 67.9167 (21)	0.008	0.444	0.000	0.026	0.003	0.453	1.050	
L22	67.9167 - 67.6667 (22)	0.006	0.313	0.000	0.018	0.002	0.319	1.050	
L23	67.6667 - 67.5 (23)	0.006	0.314	0.000	0.018	0.002	0.320	1.050	
L24	67.5 - 67.25 (24)	0.007	0.377	0.000	0.022	0.003	0.384	1.050	
L25	67.25 - 66.33 (25)	0.007	0.384	0.000	0.022	0.003	0.392	1.050	
L26	66.33 - 66.08 (26)	0.006	0.330	0.000	0.018	0.002	0.337	1.050	
L27	66.08 - 61.08 (27)	0.006	0.357	0.000	0.019	0.002	0.364	1.050	
L28	61.08 - 56.5 (28)	0.007	0.375	0.000	0.019	0.002	0.382	1.050	
L29	56.5 - 56.25 (29)	0.007	0.375	0.000	0.019	0.002	0.382	1.050	
L30	56.25 - 51.25 (30)	0.007	0.393	0.000	0.019	0.002	0.400	1.050	
L31	51.25 - 46.25 (31)	0.007	0.410	0.000	0.020	0.002	0.418	1.050	
L32	46.25 - 36.75 (32)	0.008	0.426	0.000	0.020	0.002	0.434	1.050	
L33	36.75 - 35.75 (33)	0.009	0.487	0.000	0.022	0.002	0.497	1.050	
L34	35.75 - 31.25 (34)	0.009	0.498	0.000	0.022	0.002	0.508	1.050	
L35	31.25 - 31 (35)	0.009	0.464	0.000	0.020	0.002	0.473	1.050	
L36	31 - 26 (36)	0.009	0.480	0.000	0.020	0.002	0.489	1.050	
L37	26 - 22 (37)	0.009	0.488	0.000	0.020	0.002	0.498	1.050	
L38	22 - 21.75 (38)	0.008	0.434	0.000	0.018	0.001	0.442	1.050	

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L39	21.75 - 19.0833 (39)	0.008	0.440	0.000	0.018	0.001	0.449	1.050	
L40	19.0833 - 18.8333 (40)	0.009	0.463	0.000	0.019	0.001	0.473	1.050	
L41	18.8333 - 18 (41)	0.009	0.463	0.000	0.019	0.001	0.473	1.050	
L42	18 - 17.75 (42)	0.008	0.409	0.000	0.017	0.001	0.418	1.050	
L43	17.75 - 17 (43)	0.008	0.410	0.000	0.017	0.001	0.418	1.050	
L44	17 - 16.75 (44)	0.008	0.410	0.000	0.017	0.001	0.418	1.050	
L45	16.75 - 11.75 (45)	0.008	0.420	0.000	0.017	0.001	0.428	1.050	
L46	11.75 - 6.75 (46)	0.009	0.430	0.000	0.017	0.001	0.439	1.050	
L47	6.75 - 4 (47)	0.009	0.430	0.000	0.017	0.001	0.439	1.050	
L48	4 - 3.75 (48)	0.009	0.430	0.000	0.017	0.001	0.439	1.050	
L49	3.75 - 3 (49)	0.009	0.430	0.000	0.017	0.001	0.439	1.050	
L50	3 - 2.75 (50)	0.008	0.392	0.000	0.015	0.001	0.400	1.050	
L51	2.75 - 0 (51)	0.008	0.392	0.000	0.015	0.001	0.400	1.050	

Section Capacity Table

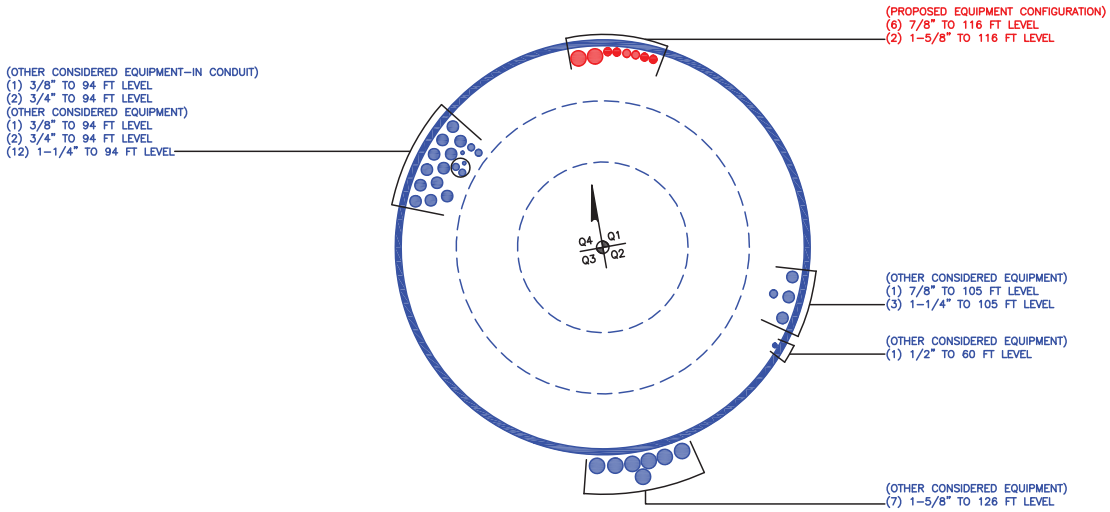
Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	129 - 124	Pole	TP16x16x0.375	1	-6.15	608.84	7.0	Pass
L2	124 - 119	Pole	TP16x16x0.375	2	-6.62	608.84	20.9	Pass
L3	119 - 115.5	Pole	TP16x16x0.375	3	-10.84	608.84	33.1	Pass
L4	115.5 - 115	Pole	TP17.81x16x0.375	4	-10.85	608.84	33.0	Pass
L5	115 - 110	Pole	TP18.9603x17.81x0.2188	5	-12.88	810.88	41.4	Pass
L6	110 - 105	Pole	TP20.1106x18.9603x0.2188	6	-13.77	860.65	55.2	Pass
L7	105 - 100	Pole	TP21.2609x20.1106x0.2188	7	-18.90	910.42	72.2	Pass
L8	100 - 95	Pole	TP22.4112x21.2609x0.2188	8	-19.54	960.18	86.0	Pass
L9	95 - 94.5	Pole	TP22.5262x22.4112x0.2188	9	-19.62	965.16	87.3	Pass
L10	94.5 - 94.25	Pole	TP22.5838x22.5262x0.4375	10	-19.67	1916.37	41.9	Pass
L11	94.25 - 92.083	Pole	TP23.0823x22.5838x0.4313	11	-24.28	1932.05	46.2	Pass
L12	92.083 - 91.833	Pole	TP23.1398x23.0823x0.6563	12	-24.35	2918.34	31.5	Pass
L13	91.833 - 86.833	Pole	TP24.2901x23.1398x0.6313	13	-25.54	2953.90	37.1	Pass
L14	86.833 - 81.833	Pole	TP25.4404x24.2901x0.6063	14	-26.78	2977.85	42.4	Pass
L15	81.833 - 73.75	Pole	TP27.3x25.4404x0.5938	15	-27.75	3021.48	45.8	Pass
L16	73.75 - 73	Pole	TP27.0333x25.8847x0.6875	16	-29.93	3582.48	43.9	Pass
L17	73 - 71.5	Pole	TP27.3778x27.0333x0.675	17	-30.36	3565.02	45.3	Pass
L18	71.5 - 71.25	Pole	TP27.4352x27.3778x0.7375	18	-30.46	3894.38	41.9	Pass
L19	71.25 - 68.33	Pole	TP28.106x27.4352x0.725	19	-31.35	3926.34	43.6	Pass
L20	68.33 - 68.08	Pole	TP28.1634x28.106x0.7375	20	-31.45	4000.58	43.0	Pass
L21	68.08 - 67.9167	Pole	TP28.2009x28.1634x0.7375	21	-31.51	4006.06	43.1	Pass
L22	67.9167 - 67.6667	Pole	TP28.2583x28.2009x1.0875	22	-31.61	5844.31	30.4	Pass
L23	67.6667 - 67.5	Pole	TP28.2966x28.2583x1.0875	23	-31.68	5852.54	30.4	Pass
L24	67.5 - 67.25	Pole	TP28.3541x28.2966x0.8875	24	-31.76	4821.40	36.6	Pass
L25	67.25 - 66.33	Pole	TP28.5654x28.3541x0.875	25	-32.08	4792.23	37.3	Pass
L26	66.33 - 66.08	Pole	TP28.6228x28.5654x1.0375	26	-32.20	5660.65	32.1	Pass
L27	66.08 - 61.08	Pole	TP29.7713x28.6228x0.9875	27	-34.39	5621.94	34.7	Pass
L28	61.08 - 56.5	Pole	TP30.8234x29.7713x0.9625	28	-36.46	5684.66	36.4	Pass
L29	56.5 - 56.25	Pole	TP30.8808x30.8234x0.9625	29	-36.58	5695.59	36.4	Pass
L30	56.25 - 51.25	Pole	TP32.0293x30.8808x0.9375	30	-38.83	5765.26	38.1	Pass
L31	51.25 - 46.25	Pole	TP33.1778x32.0293x0.9125	31	-41.12	5823.31	39.8	Pass
L32	46.25 - 36.75	Pole	TP35.36x33.1778x0.8875	32	-43.10	5839.52	41.4	Pass
L33	36.75 - 35.75	Pole	TP34.9682x33.5291x0.8125	33	-47.81	5488.93	47.3	Pass
L34	35.75 - 31.25	Pole	TP36.0044x34.9682x0.8	34	-49.76	5570.42	48.3	Pass
L35	31.25 - 31	Pole	TP36.0619x36.0044x0.8625	35	-49.89	6004.76	45.1	Pass
L36	31 - 26	Pole	TP37.2132x36.0619x0.8375	36	-52.28	6025.56	46.6	Pass
L37	26 - 22	Pole	TP38.1343x37.2132x0.825	37	-54.23	6087.96	47.4	Pass
L38	22 - 21.75	Pole	TP38.1918x38.1343x0.9375	38	-54.37	6907.95	42.1	Pass

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L39	21.75 - 19.0833	Pole	TP38.8059x38.1918x0.925	39	-55.75	6930.47	42.7	Pass
L40	19.0833 - 18.8333	Pole	TP38.8634x38.8059x0.875	40	-55.89	6574.47	45.0	Pass
L41	18.8333 - 18	Pole	TP39.0553x38.8634x0.875	41	-56.30	6607.67	45.0	Pass
L42	18 - 17.75	Pole	TP39.1129x39.0553x1	42	-56.44	7538.29	39.8	Pass
L43	17.75 - 17	Pole	TP39.2856x39.1129x1	43	-56.86	7572.44	39.8	Pass
L44	17 - 16.75	Pole	TP39.3431x39.2856x1	44	-57.01	7583.83	39.8	Pass
L45	16.75 - 11.75	Pole	TP40.4944x39.3431x0.975	45	-59.84	7621.08	40.8	Pass
L46	11.75 - 6.75	Pole	TP41.6457x40.4944x0.95	46	-62.14	7603.43	41.8	Pass
L47	6.75 - 4	Pole	TP42.279x41.6457x0.95	47	-62.73	7646.69	41.8	Pass
L48	4 - 3.75	Pole	TP42.3365x42.279x0.95	48	-64.31	7765.67	41.8	Pass
L49	3.75 - 3	Pole	TP42.5092x42.3365x0.95	49	-64.46	7776.49	41.8	Pass
L50	3 - 2.75	Pole	TP42.5668x42.5092x1.05	50	-64.88	8610.17	38.1	Pass
L51	2.75 - 0	Pole	TP43.2x42.5668x1.05	51	-65.04	8622.12	38.1	Pass
							Summary	
						Pole (L9)	87.3	Pass
						RATING =	**87.3**	**Pass**

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

APPENDIX B

BASE LEVEL DRAWING



BUSINESS UNIT: 806365 TOWER ID:C_BASELEVEL

APPENDIX C

ADDITIONAL CALCULATIONS

CCIpole

per TIA-222- H

Site BU: 806365

Work Order: 2278727

CROWN CASTLE

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	129	13.5	0	0	16	16	0.375		A53-B-35
2	115.5	0.5	0	0	16.00	17.81	0.375		A53-B-35
3	115	41.25	4.25	12	17.81	27.3	0.21875	Auto	A572-65
4	78	41.25	5.25	12	25.88	35.36	0.3125	Auto	A572-65
5	42	42	0	12	33.53	43.2	0.375	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
1	3	18	plate	CCI-AFP-060100	3		M1				M1				M1		
2	41.5	56.5	plate	CCI-AFP-060100	3		M1				M1				M1		
3	0	3	plate	TS-6x1.25	3		c				c				c		
4	4	17	plate	CCI-AFP-065125	2			M2								M2	
5	4	22	plate	CCI-AFP-065125	1								M2				
6	19.0833	41	plate	CCI-AFP-065125	1							M2					
7	17	40.583	plate	CCI-AFP-065125	2			M2								M2	
8	56.5	71.5	plate	CCI-AFP-060100	3				M2				M2				M2
9	71.5	92.083	plate	CCI-AFP-045100	3				M2				M2				M2
10	0	4	plate	ARB-6x1.25	3			c				c				c	
11	0	31.25	plate	CCI-WSFP-085125	3					M3				M3			M3
12	31.25	66.33	plate	CCI-SFP-085125	2					M3				M3			
13	40.583	67.9167	plate	CCI-SFP-065125	2			M3								M3	
14	67.5	94.5	plate	CCI-SFP-045100	3		M3				M3				M3		
15	41	68.33	plate	CCI-SFP-065125	1							M3					
16																	

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	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
3	1.25	6	7.5	3	Welded	n/a	Welded	n/a	0.000	7.500	0.0000	A572-65
4	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
5	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
6	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
7	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
8	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
9	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
10	1.25	6	7.5	3	Welded	n/a	Welded	n/a	0.000	7.500	0.0000	A572-65
11	8.5	1.25	10.625	0.625	Welded	n/a	PC 8.8 - M20 (100)	45.000	17.000	9.063	1.1875	A572-65
12	8.5	1.25	10.625	0.625	PC 8.8 - M20 (100)	45	PC 8.8 - M20 (100)	45.000	17.000	9.063	1.1875	A572-65
13	6.5	1.25	8.125	0.625	PC 8.8 - M20 (100)	33	PC 8.8 - M20 (100)	33.000	19.000	6.563	1.1875	A572-65
14	4.5	1	4.5	0.5	PC 8.8 - M20 (100)	18	PC 8.8 - M20 (100)	18.000	20.000	3.250	1.1875	A572-65
15	6.5	1.25	8.125	0.625	PC 8.8 - M20 (100)	33	PC 8.8 - M20 (100)	33.000	19.000	6.563	1.1875	A572-65

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)
TS-6x1.25	Top	-	-	-	-	70	None	-	-	-	-	65.25	0.375	-
	Bottom	-	-	-	-	70	CJP Groove	10.5	0.625	45	0.625	-	-	-
ARB-6x1.25	Top	-	-	-	-	70	None	-	-	-	-	83.25	0.375	-
	Bottom	-	-	-	-	70	CJP Groove	10.5	0.625	45	0.625	-	-	-

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	129 - 124	5		0	16.000	16.000	0.375	A53-B-35	1.000
2	124 - 119	5		0	16.000	16.000	0.375	A53-B-35	1.000
3	119 - 115.5	3.5	0	0	16.000	16.000	0.375	A53-B-35	1.000
4	115.5 - 115	0.5	0	0	16.000	17.810	0.375	A53-B-35	1.000
5	115 - 110	5		12	17.810	18.960	0.21875	A572-65	1.000
6	110 - 105	5		12	18.960	20.111	0.21875	A572-65	1.000
7	105 - 100	5		12	20.111	21.261	0.21875	A572-65	1.000
8	100 - 95	5		12	21.261	22.411	0.21875	A572-65	1.000
9	95 - 94.5	0.5		12	22.411	22.526	0.21875	A572-65	1.000
10	94.5 - 94.25	0.25		12	22.526	22.584	0.4375	A572-65	0.938
11	94.25 - 92.083	2.167		12	22.584	23.082	0.43125	A572-65	0.942
12	92.083 - 91.833	0.25		12	23.082	23.140	0.65625	A572-65	0.909
13	91.833 - 86.833	5		12	23.140	24.290	0.63125	A572-65	0.915
14	86.833 - 81.833	5		12	24.290	25.440	0.60625	A572-65	0.924
15	81.833 - 78	8.083	4.25	12	25.440	27.300	0.59375	A572-65	0.923
16	78 - 73	5		12	25.885	27.033	0.6875	A572-65	0.925
17	73 - 71.5	1.5		12	27.033	27.378	0.675	A572-65	0.935
18	71.5 - 71.25	0.25		12	27.378	27.435	0.7375	A572-65	0.928
19	71.25 - 68.33	2.92		12	27.435	28.106	0.725	A572-65	0.931
20	68.33 - 68.08	0.25		12	28.106	28.163	0.7375	A572-65	1.040
21	68.08 - 67.9167	0.1633		12	28.163	28.201	0.7375	A572-65	1.039
22	67.9167 - 67.6667	0.25		12	28.201	28.258	1.0875	A572-65	0.884
23	67.6667 - 67.5	0.1667		12	28.258	28.297	1.0875	A572-65	0.883
24	67.5 - 67.25	0.25		12	28.297	28.354	0.8875	A572-65	0.900
25	67.25 - 66.33	0.92		12	28.354	28.565	0.875	A572-65	0.908
26	66.33 - 66.08	0.25		12	28.565	28.623	1.0375	A572-65	1.001
27	66.08 - 61.08	5		12	28.623	29.771	0.9875	A572-65	1.020
28	61.08 - 56.5	4.58		12	29.771	30.823	0.9625	A572-65	1.020
29	56.5 - 56.25	0.25		12	30.823	30.881	0.9625	A572-65	1.019
30	56.25 - 51.25	5		12	30.881	32.029	0.9375	A572-65	1.019
31	51.25 - 46.25	5		12	32.029	33.178	0.9125	A572-65	1.021
32	46.25 - 42	9.5	5.25	12	33.178	35.360	0.8875	A572-65	1.028
33	42 - 35.75	6.25		12	33.529	34.968	0.8125	A572-65	0.979
34	35.75 - 31.25	4.5		12	34.968	36.004	0.8	A572-65	0.978
35	31.25 - 31	0.25		12	36.004	36.062	0.8625	A572-65	1.017
36	31 - 26	5		12	36.062	37.213	0.8375	A572-65	1.028
37	26 - 22	4		12	37.213	38.134	0.825	A572-65	1.028
38	22 - 21.75	0.25		12	38.134	38.192	0.9375	A572-65	0.979
39	21.75 - 19.0833	2.6667		12	38.192	38.806	0.925	A572-65	0.983
40	19.0833 - 18.8333	0.25		12	38.806	38.863	0.875	A572-65	0.961
41	18.8333 - 18	0.8333		12	38.863	39.055	0.875	A572-65	0.958
42	18 - 17.75	0.25		12	39.055	39.113	1	A572-65	0.987
43	17.75 - 17	0.75		12	39.113	39.286	1	A572-65	0.984
44	17 - 16.75	0.25		12	39.286	39.343	1	A572-65	0.983
45	16.75 - 11.75	5		12	39.343	40.494	0.975	A572-65	0.990
46	11.75 - 6.75	5		12	40.494	41.646	0.95	A572-65	0.998
47	6.75 - 4	2.75		12	41.646	42.279	0.95	A572-65	0.988
48	4 - 3.75	0.25		12	42.279	42.337	0.95	A572-65	0.973
49	3.75 - 3	0.75		12	42.337	42.509	0.95	A572-65	0.970
50	3 - 2.75	0.25		12	42.509	42.567	1.05	A572-65	0.911
51	2.75 - 0	2.75		12	42.567	43.200	1.05	A572-65	0.903

TNX Section Forces

Increment (ft): 5

	Section Height (ft)	TNX Output P_u (K)	M_{ux} (kip-ft)	V_u (K)
1	129 - 124	6.15	14.68	6.85
2	124 - 119	6.62	49.55	7.07
3	119 - 115.5	10.84	77.82	12.30
4	115.5 - 115	10.90	83.98	12.32
5	115 - 110	12.88	151.38	14.19
6	110 - 105	13.79	225.03	15.51
7	105 - 100	18.94	322.87	19.79
8	100 - 95	19.57	423.11	20.28
9	95 - 94.5	19.62	433.27	20.35
10	94.5 - 94.25	19.67	438.35	20.37
11	94.25 - 92.083	24.28	496.70	26.30
12	92.083 - 91.833	24.35	503.27	26.32
13	91.833 - 86.833	25.54	636.48	26.98
14	86.833 - 81.833	26.78	772.96	27.64
15	81.833 - 78	27.75	879.78	28.13
16	78 - 73	29.93	1022.33	28.90
17	73 - 71.5	30.36	1065.81	29.11
18	71.5 - 71.25	30.46	1073.08	29.12
19	71.25 - 68.33	31.35	1158.69	29.54
20	68.33 - 68.08	31.45	1166.07	29.56
21	68.08 - 67.9167	31.51	1170.90	29.58
22	67.9167 - 67.6667	31.61	1178.30	29.62
23	67.6667 - 67.5	31.68	1183.24	29.64
24	67.5 - 67.25	31.76	1190.65	29.68
25	67.25 - 66.33	32.08	1218.01	29.82
26	66.33 - 66.08	32.20	1225.47	29.85
27	66.08 - 61.08	34.39	1376.55	30.60
28	61.08 - 56.5	36.46	1518.20	31.32
29	56.5 - 56.25	36.58	1526.03	31.35
30	56.25 - 51.25	38.83	1684.55	32.08
31	51.25 - 46.25	41.12	1846.66	32.79
32	46.25 - 42	43.10	1986.93	33.25
33	42 - 35.75	47.81	2197.20	34.04
34	35.75 - 31.25	49.76	2351.27	34.48
35	31.25 - 31	49.89	2359.88	34.48
36	31 - 26	52.28	2533.44	34.97
37	26 - 22	54.23	2673.94	35.32
38	22 - 21.75	54.37	2682.77	35.33
39	21.75 - 19.0833	55.75	2777.30	35.59
40	19.0833 - 18.8333	55.89	2786.20	35.60
41	18.8333 - 18	56.30	2815.88	35.68
42	18 - 17.75	56.44	2824.80	35.69
43	17.75 - 17	56.86	2851.59	35.77
44	17 - 16.75	57.01	2860.54	35.78
45	16.75 - 11.75	59.84	3040.46	36.21
46	11.75 - 6.75	62.70	3222.41	36.61
47	6.75 - 4	64.29	3323.33	36.83
48	4 - 3.75	64.45	3332.53	36.83
49	3.75 - 3	64.87	3360.17	36.90
50	3 - 2.75	65.03	3369.40	36.91
51	2.75 - 0	66.64	3471.20	37.16

Analysis Results

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
129 - 124	Pole	TP16x16x0.375	Pole	7.0%	Pass
124 - 119	Pole	TP16x16x0.375	Pole	20.9%	Pass
119 - 115.5	Pole	TP16x16x0.375	Pole	33.1%	Pass
115.5 - 115	Pole	TP17.81x16x0.375	Pole	28.7%	Pass
115 - 110	Pole	TP18.96x17.81x0.2188	Pole	41.3%	Pass
110 - 105	Pole	TP20.111x18.96x0.2188	Pole	54.9%	Pass
105 - 100	Pole	TP21.261x20.111x0.2188	Pole	71.8%	Pass
100 - 95	Pole	TP22.411x21.261x0.2188	Pole	85.6%	Pass
95 - 94.5	Pole	TP22.526x22.411x0.2188	Pole	86.9%	Pass
94.5 - 94.25	Pole + Reinf.	TP22.584x22.526x0.4375	Reinf. 14 Tension Rupture	71.0%	Pass
94.25 - 92.08	Pole + Reinf.	TP23.082x22.584x0.4313	Reinf. 14 Tension Rupture	78.0%	Pass
92.08 - 91.83	Pole + Reinf.	TP23.14x23.082x0.6563	Reinf. 9 Tension Rupture	53.3%	Pass
91.83 - 86.83	Pole + Reinf.	TP24.29x23.14x0.6313	Reinf. 9 Tension Rupture	62.9%	Pass
86.83 - 81.83	Pole + Reinf.	TP25.44x24.29x0.6063	Reinf. 9 Tension Rupture	71.6%	Pass
81.83 - 78	Pole + Reinf.	TP27.3x25.44x0.5938	Reinf. 9 Tension Rupture	77.7%	Pass
78 - 73	Pole + Reinf.	TP27.033x25.885x0.6875	Reinf. 9 Tension Rupture	74.8%	Pass
73 - 71.5	Pole + Reinf.	TP27.378x27.033x0.675	Reinf. 9 Tension Rupture	76.5%	Pass
71.5 - 71.25	Pole + Reinf.	TP27.435x27.378x0.7375	Reinf. 14 Tension Rupture	70.5%	Pass
71.25 - 68.33	Pole + Reinf.	TP28.106x27.435x0.725	Reinf. 14 Tension Rupture	73.5%	Pass
68.33 - 68.08	Pole + Reinf.	TP28.163x28.106x0.7375	Reinf. 14 Tension Rupture	73.6%	Pass
68.08 - 67.92	Pole + Reinf.	TP28.201x28.163x0.7375	Reinf. 14 Tension Rupture	73.8%	Pass
67.92 - 67.67	Pole + Reinf.	TP28.258x28.201x1.0875	Reinf. 14 Tension Rupture	51.7%	Pass
67.67 - 67.5	Pole + Reinf.	TP28.297x28.258x1.0875	Reinf. 14 Tension Rupture	51.8%	Pass
67.5 - 67.25	Pole + Reinf.	TP28.354x28.297x0.8875	Reinf. 8 Tension Rupture	56.8%	Pass
67.25 - 66.33	Pole + Reinf.	TP28.565x28.354x0.875	Reinf. 8 Tension Rupture	57.5%	Pass
66.33 - 66.08	Pole + Reinf.	TP28.623x28.565x1.0375	Reinf. 8 Tension Rupture	53.8%	Pass
66.08 - 61.08	Pole + Reinf.	TP29.771x28.623x0.9875	Reinf. 8 Tension Rupture	57.3%	Pass
61.08 - 56.5	Pole + Reinf.	TP30.823x29.771x0.9625	Reinf. 8 Tension Rupture	60.3%	Pass
56.5 - 56.25	Pole + Reinf.	TP30.881x30.823x0.9625	Reinf. 2 Tension Rupture	60.5%	Pass
56.25 - 51.25	Pole + Reinf.	TP32.029x30.881x0.9375	Reinf. 2 Tension Rupture	63.5%	Pass
51.25 - 46.25	Pole + Reinf.	TP33.178x32.029x0.9125	Reinf. 2 Tension Rupture	66.4%	Pass
46.25 - 42	Pole + Reinf.	TP35.36x33.178x0.8875	Reinf. 2 Tension Rupture	68.6%	Pass
42 - 35.75	Pole + Reinf.	TP34.968x33.529x0.8125	Reinf. 7 Tension Rupture	73.1%	Pass
35.75 - 31.25	Pole + Reinf.	TP36.004x34.968x0.8	Reinf. 7 Tension Rupture	74.8%	Pass
31.25 - 31	Pole + Reinf.	TP36.062x36.004x0.8625	Reinf. 7 Tension Rupture	70.4%	Pass
31 - 26	Pole + Reinf.	TP37.213x36.062x0.8375	Reinf. 7 Tension Rupture	72.2%	Pass
26 - 22	Pole + Reinf.	TP38.134x37.213x0.825	Reinf. 7 Tension Rupture	73.5%	Pass
22 - 21.75	Pole + Reinf.	TP38.192x38.134x0.9375	Reinf. 7 Tension Rupture	69.6%	Pass
21.75 - 19.08	Pole + Reinf.	TP38.806x38.192x0.925	Reinf. 7 Tension Rupture	70.4%	Pass
19.08 - 18.83	Pole + Reinf.	TP38.863x38.806x0.875	Reinf. 7 Tension Rupture	70.8%	Pass
18.83 - 18	Pole + Reinf.	TP39.055x38.863x0.875	Reinf. 7 Tension Rupture	71.0%	Pass
18 - 17.75	Pole + Reinf.	TP39.113x39.055x1	Reinf. 1 Tension Rupture	63.1%	Pass
17.75 - 17	Pole + Reinf.	TP39.286x39.113x1	Reinf. 1 Tension Rupture	63.3%	Pass
17 - 16.75	Pole + Reinf.	TP39.343x39.286x1	Reinf. 1 Tension Rupture	63.3%	Pass
16.75 - 11.75	Pole + Reinf.	TP40.494x39.343x0.975	Reinf. 1 Tension Rupture	64.7%	Pass
11.75 - 6.75	Pole + Reinf.	TP41.646x40.494x0.95	Reinf. 1 Tension Rupture	65.9%	Pass
6.75 - 4	Pole + Reinf.	TP42.279x41.646x0.95	Reinf. 1 Tension Rupture	66.5%	Pass
4 - 3.75	Pole + Reinf.	TP42.337x42.279x0.95	Reinf. 1 Tension Rupture	65.6%	Pass
3.75 - 3	Pole + Reinf.	TP42.509x42.337x0.95	Reinf. 1 Tension Rupture	65.8%	Pass
3 - 2.75	Pole + Reinf.	TP42.567x42.509x1.05	Reinf. 3 Tension Yield	55.8%	Pass
2.75 - 0	Pole + Reinf.	TP43.2x42.567x1.05	Reinf. 3 Tension Yield	56.4%	Pass
				Summary	
			Pole	86.9%	Pass
			Reinforcement	78.0%	Pass
			Overall	86.9%	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	R9	R10	R11	R12	R13	R14	R15
129 - 124	562	n/a	562	18.41	n/a	18.41	7.0%															
124 - 119	562	n/a	562	18.41	n/a	18.41	20.9%															
119 - 115.5	562	n/a	562	18.41	n/a	18.41	33.1%															
115.5 - 115	781	n/a	781	20.54	n/a	20.54	28.7%															
115 - 110	593	n/a	593	13.18	n/a	13.18	41.3%															
110 - 105	709	n/a	709	13.99	n/a	13.99	54.9%															
105 - 100	839	n/a	839	14.80	n/a	14.80	71.8%															
100 - 95	984	n/a	984	15.61	n/a	15.61	85.6%															
95 - 94.5	999	n/a	999	15.69	n/a	15.69	86.9%															
94.5 - 94.25	1007	951	1958	15.73	13.50	29.23	43.6%														71.0%	
94.25 - 92.08	1076	991	2067	16.08	13.50	29.58	48.4%														78.0%	
92.08 - 91.83	1084	1991	3075	16.12	27.00	43.12	33.1%									53.3%					53.3%	
91.83 - 86.83	1256	2183	3438	16.93	27.00	43.93	39.9%									62.9%					62.9%	
86.83 - 81.83	1444	2383	3828	17.74	27.00	44.74	46.4%									71.6%					71.6%	
81.83 - 78	1601	2543	4145	18.36	27.00	45.36	51.2%									77.7%					77.7%	
78 - 73	2454	2676	5130	26.85	27.00	53.85	43.4%									74.8%					74.8%	
73 - 71.5	2550	2742	5292	27.20	27.00	54.20	44.5%									76.5%					76.5%	
71.5 - 71.25	2566	3223	5790	27.25	31.50	58.75	41.1%								64.4%						70.5%	
71.25 - 68.33	2761	3375	6137	27.93	31.50	59.43	43.2%								67.1%						73.5%	
68.33 - 68.08	2779	3428	6207	27.98	39.63	67.61	44.2%								67.2%						73.6%	47.0%
68.08 - 67.92	2790	3437	6227	28.02	39.63	67.65	44.4%								67.4%						73.8%	47.1%
67.92 - 67.67	2807	6108	8915	28.08	55.88	83.96	30.5%								47.2%					46.7%	51.7%	46.7%
67.67 - 67.5	2818	6124	8942	28.12	55.88	83.99	30.5%								47.4%					46.8%	51.8%	46.8%
67.5 - 67.25	2836	4681	7517	28.18	42.38	70.55	36.6%								56.8%					56.1%		56.1%
67.25 - 66.33	2900	4748	7648	28.39	42.38	70.76	37.2%								57.5%					56.8%		56.8%
66.33 - 66.08	2993	6001	8994	28.45	63.63	92.07	36.3%								53.8%				38.6%	46.1%		44.6%
66.08 - 61.08	3370	6462	9832	29.60	63.63	93.23	39.3%								57.3%				39.8%	49.2%		47.6%
61.08 - 56.5	3741	6900	10641	30.66	63.63	94.28	41.9%								60.3%				42.0%	51.8%		50.2%
56.5 - 56.25	3762	6924	10687	30.72	63.63	94.34	42.0%		60.5%										42.1%	52.0%		50.3%
56.25 - 51.25	4200	7420	11620	31.87	63.63	95.49	44.8%		63.5%										44.4%	54.7%		53.0%
51.25 - 46.25	4670	7934	12604	33.02	63.63	96.65	47.5%		66.4%										46.5%	57.1%		55.5%
46.25 - 42	5096	8384	13480	34.00	63.63	97.63	49.8%		68.6%										48.2%	59.1%		57.4%
42 - 35.75	6508	6926	13434	41.71	45.63	87.34	52.9%						70.6%	73.1%					58.2%			
35.75 - 31.25	7106	7325	14432	42.96	45.63	88.59	54.7%						72.3%	74.8%					59.7%			
31.25 - 31	7052	8414	15466	43.03	56.25	99.28	49.4%						65.3%	70.4%				62.8%				
31 - 26	7756	8932	16688	44.42	56.25	100.67	51.2%						67.0%	72.2%				62.0%				
26 - 22	8351	9358	17709	45.53	56.25	101.78	52.7%						68.3%	73.5%				63.2%				
22 - 21.75	8577	11589	20166	45.60	64.38	109.97	48.9%					56.3%	57.0%	69.6%				58.7%				
21.75 - 19.08	8998	11950	20948	46.34	64.38	110.71	49.8%					57.1%	57.7%	70.4%				59.5%				
19.08 - 18.83	8896	11055	19951	46.41	56.25	102.66	51.2%					68.7%		70.8%				64.4%				
18.83 - 18	9030	11160	20189	46.64	56.25	102.89	51.4%					68.9%		71.0%				64.6%				
18 - 17.75	9004	13818	22822	46.71	74.25	120.96	43.2%	63.1%				58.1%		59.7%				54.6%				
17.75 - 17	9125	13935	23060	46.92	74.25	121.17	43.4%	63.3%				58.3%		59.9%				54.8%				
17 - 16.75	9165	13974	23139	46.99	74.25	121.24	43.5%	63.3%			59.9%	58.3%						54.9%				
16.75 - 11.75	10001	14769	24770	48.37	74.25	122.62	44.9%	64.7%			61.2%	59.6%						56.1%				
11.75 - 6.75	10886	15586	26472	49.76	74.25	124.01	46.4%	65.9%			62.4%	60.7%						57.2%				
6.75 - 4	11394	16045	27439	50.53	74.25	124.78	47.2%	66.5%			63.0%	61.3%						57.7%				
4 - 3.75	11427	16365	27792	50.60	72.38	122.97	46.6%	65.6%									57.6%	55.3%				
3.75 - 3	11568	16489	28057	50.80	72.38	123.18	46.8%	65.8%									57.8%	55.4%				
3 - 2.75	11622	19446	31068	50.87	76.88	127.75	44.2%			55.8%							53.1%	51.0%				
2.75 - 0	12153	19968	32120	51.64	76.88	128.51	45.0%			56.4%							53.6%	51.6%				

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

TUBE BYPASS ANALYSIS

MORRISON HERSHFIELD

Project No.	:	CN13-116 / 2400001
BU#:	:	806365
Site Name:	:	HRT 303 943203
Date:	:	1/18/2024
Code	:	H

REACTIONS AT CONNECTION			
Moment	:	83.98	K-ft
Axial	:	10.90	kips
Shear	:	12.32	Kips
EXTENSION PROPERTIES			
Diameter	:	16	in
Thickness	:	0.375	in
Height	:	13.5	ft
Ultimate Strength, (Fu)	:	63	ksi
Gap Height	:	6	in
POLE PROPERTIES			
Diameter	:	17.81	in
Thickness	:	0.21875	in
Ultimate Strength, (Fu)	:	80	ksi
TUBE BYPASS PROPERTIES			
Number of Legs	:	3	
Unbraced Length	:	48	in
Tube Circle	:	34.31	in
K	:	1	
Member Type	:	HSS6X6X5/8	
Width	:	5	in
Thickness	:	0.625	in
Gross Area (A_g)	:	11.7	
Net Area (A_n)	:	10.59	in^2
Radius of Gyration	:	2.17	in
Section Modulus, (Z)	:	23.2	in^3
Yield Strength, (F_y)	:	46	ksi
Ultimate Strength, (F_u)	:	63	ksi
Youngs Modulus, (E)	:	29000	ksi

CONNECTION		TOP	BOTTOM
Bolt Type	:	M20 AJAX	M20 AJAX
Bolt Quantity	:	10	10
Spacing (in)	:	3	3
End Distance (in)	:	3	3
Bolt Grade (ksi)	:	120	120
Bolt Size (in)	:	0.784	0.784

Load Distribution		Member Forces	
Moment of Inertia (in^4)	Force due to Moment (kips)	Compression Load (kips)	Tension Load (kips)
4674.86	39.16	42.80	35.53

Tensile Strength			
Tensile Yielding Capacity, $ØP_{nt}$ (kips)	Tensile Rupture Capacity, $ØP_{nt}$ (kips)	Capacity*	
484.4	440.3	7.7%	PASS

Compression Strength			
Critical Compreesion Stress, F_{cr} (kips)	Compressive Strngth, $Ø_cP_n$ (kips)	Capacity*	
44.5	424.2	9.6%	PASS

Bending Capacity		
Flexure Strength, $ØM_n$ (kips-in)	Capacity*	
960.5	2.4%	PASS

Combined Interaction		
Capacity*	7.6%	PASS

Bolt Shear Capacity			
Shear Force on single Bolt, V_n (kips)	Design Shear Strength, $ØR_{nv}$ (kips)	Capacity*	
4.28	21.7	19.7%	PASS

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

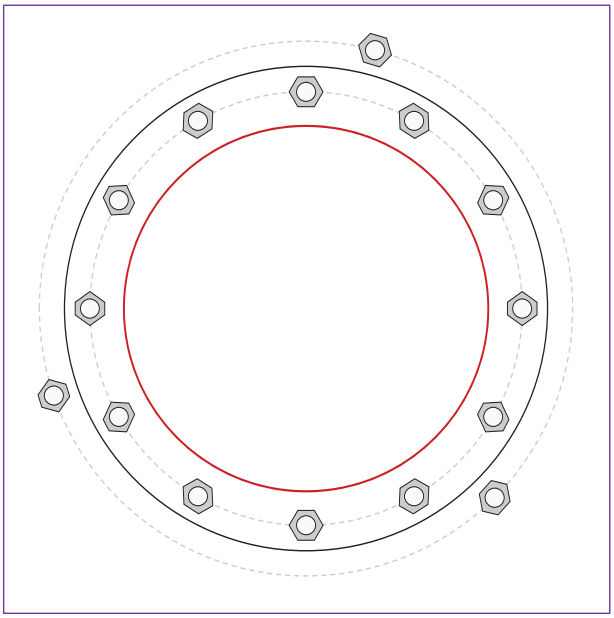
Monopole Base Plate Connection

Site Info	
BU #	806365
Site Name	HRT 303 943203
Order #	654595 Rev. 0

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	See Custom Sheet
l_{ar} (in)	See Custom Sheet

Applied Loads	
Moment (kip-ft)	3471.20
Axial Force (kips)	66.64
Shear Force (kips)	37.16

**TIA-222-H Section 15.5 Applied*



Connection Properties

Anchor Rod Data

GROUP 1: (12) 2-1/4" ø bolts (A615-75 N; Fy=75 ksi, Fu=100 ksi) on 51.23" BC

GROUP 2: (3) 2-1/4" ø bolts (A193 Gr. B7 N; Fy=105 ksi, Fu=125 ksi) on 63.22" BC

pos. (deg): 75, 199, 315

Base Plate Data

57.23" OD x 2.625" Plate (A633 Gr. E; Fy=60 ksi, Fu=70 ksi)

Stiffener Data

N/A

Pole Data

43.2" x 0.375" 12-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

Analysis Results

Anchor Rod Summary *(units of kips, kip-in)*

GROUP 1:		
Pu_t = 193.98	ϕPn_t = 243.75	**Stress Rating**
Vu = 3.1	ϕVn = 149.1	**75.8%**
Mu = n/a	ϕMn = n/a	**Pass**
GROUP 2:		
Pu_t = 243.67	ϕPn_t = 304.69	**Stress Rating**
Vu = 0	ϕVn = 186.38	**76.2%**
Mu = 0	ϕMn = 179.4	**Pass**

Base Plate Summary

Max Stress (ksi):	26.24	(Flexural)
Allowable Stress (ksi):	54	
Stress Rating:	**46.3%**	**Pass**

CCIplate

Elevation (ft)	0	*(Base)*

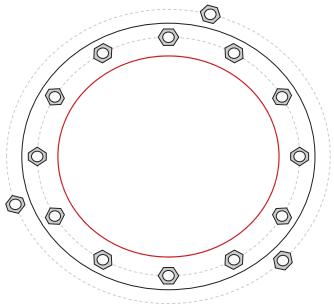
note: Bending interaction not considered when Grout Considered = "Yes"

Bolt Group	Resist Axial	Resist Shear	Induce Plate Bending	Grout Considered	Apply at BARB Elevation	BARB CL Elevation (ft)
1	Yes	Yes	Yes	No	No	
2	No	No	No	No	No	

Custom Bolt Connection

Bolt	Bolt Group ID	Location (deg.)	Diameter (in)	Material	Bolt Circle (in)	Eta Factor, n:	l_{ar} (in):	Thread Type	Area Override, in^2	Tension Only
1	1	0	2.25	A615-75	51.23	0.5	1.25	N-Included		No
2	1	30	2.25	A615-75	51.23	0.5	1.25	N-Included		No
3	1	60	2.25	A615-75	51.23	0.5	1.25	N-Included		No
4	1	90	2.25	A615-75	51.23	0.5	1.25	N-Included		No
5	1	120	2.25	A615-75	51.23	0.5	1.25	N-Included		No
6	1	150	2.25	A615-75	51.23	0.5	1.25	N-Included		No
7	1	180	2.25	A615-75	51.23	0.5	1.25	N-Included		No
8	1	210	2.25	A615-75	51.23	0.5	1.25	N-Included		No
9	1	240	2.25	A615-75	51.23	0.5	1.25	N-Included		No
10	1	270	2.25	A615-75	51.23	0.5	1.25	N-Included		No
11	1	300	2.25	A615-75	51.23	0.5	1.25	N-Included		No
12	1	330	2.25	A615-75	51.23	0.5	1.25	N-Included		No
13	2	75	2.25	A193 Gr. B7	63.22	0.5	14	N-Included		No
14	2	199	2.25	A193 Gr. B7	63.22	0.5	14	N-Included		No
15	2	315	2.25	A193 Gr. B7	63.22	0.5	14	N-Included		No

Plot Graphic



Pier and Pad Foundation

BU # :	806365
Site Name:	HRT 303 943203
App. Number:	654595 Rev. 0

TIA-222 Revision:	H
Tower Type:	Monopole

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

Superstructure Analysis Reactions		
Compression, P_{comp}:	66.66	kips
Base Shear, Vu_comp:	37.13	kips
Moment, M_u:	3471.21	ft-kips
Tower Height, **H**:	129	ft
BP Dist. Above Fdn, bp_{dist}:	3.5	in

Pier Properties		
Pier Shape:	Circular	
Pier Diameter, **dpier**:	7	ft
Ext. Above Grade, **E**:	0.67	ft
Pier Rebar Size, **Sc**:	10	
Pier Rebar Quantity, **mc**:	22	
Pier Tie/Spiral Size, **St**:	3	
Pier Tie/Spiral Quantity, **mt**:	6	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier}:	3	in

Pad Properties		
Depth, **D**:	10.33	ft
Pad Width, W_1:	28	ft
Pad Thickness, **T**:	5.083	ft
Pad Rebar Size (Bottom dir. 2), Sp_2:	11	
Pad Rebar Quantity (Bottom dir. 2), mp_2:	28	
Pad Clear Cover, cc_{pad}:	3	in

Material Properties		
Rebar Grade, **Fy**:	60	ksi
Concrete Compressive Strength, **F'c**:	3	ksi
Dry Concrete Density, **δc**:	150	pcf

Soil Properties		
Total Soil Unit Weight, **γ**:	125	pcf
Ultimate Gross Bearing, Qult:	20.000	ksf
Cohesion, **Cu**:	0.000	ksf
Friction Angle, **ϕ**:	36	degrees
SPT Blow Count, N_{blows}:	60	
Base Friction, **μ**:	0.6	
Neglected Depth, **N**:	4.17	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)	889.59	37.13	**4.0%**	**Pass**
Bearing Pressure (ksf)	15.00	2.53	**16.1%**	**Pass**
*Overturning (kip*ft)*	15026.28	3890.47	**25.9%**	**Pass**
*Pier Flexure (Comp.) (kip*ft)*	4584.54	3690.91	**76.7%**	**Pass**
Pier Compression (kip)	18370.97	107.65	**0.6%**	**Pass**
*Pad Flexure (kip*ft)*	10683.35	1383.27	**12.3%**	**Pass**
Pad Shear - 1-way (kips)	1542.61	153.81	**9.5%**	**Pass**
Pad Shear - 2-way (Comp) (ksi)	0.164	0.016	**9.1%**	**Pass**
*Flexural 2-way (Comp) (kip*ft)*	16747.55	2214.54	**12.6%**	**Pass**

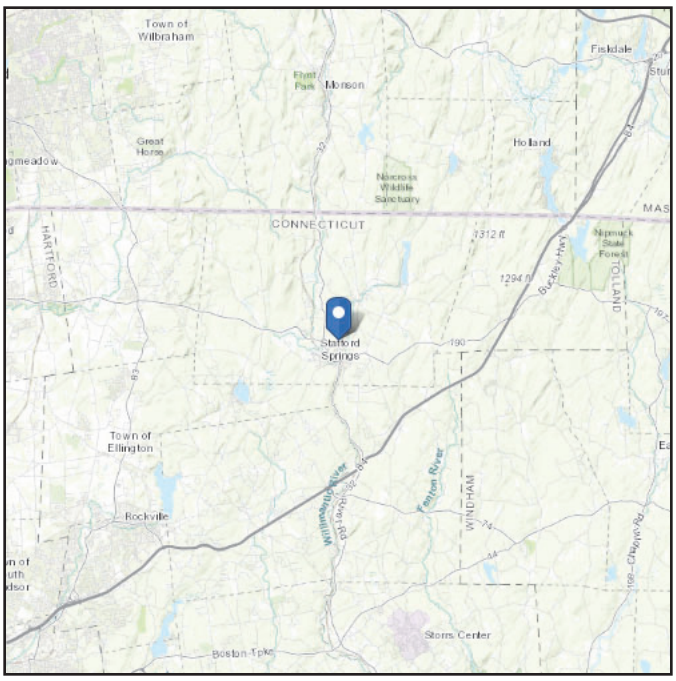
**Rating per TIA-222-H Section 15.5*

Structural Rating*:	**76.7%**
Soil Rating*:	**25.9%**

ASCE Hazards Report

Address:
No Address at This Location

Standard:	ASCE/SEI 7-16	**Latitude:**	41.964222
Risk Category:	II	**Longitude:**	-72.304944
Soil Class:	D - Default (see Section 11.4.3)	**Elevation:**	753.8554415315099 ft (NAVD 88)



Wind

Results:

Wind Speed	118 Vmph
10-year MRI	75 Vmph
25-year MRI	84 Vmph
50-year MRI	90 Vmph
100-year MRI	98 Vmph

Data Source:	ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed:	Thu Jan 18 2024

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.

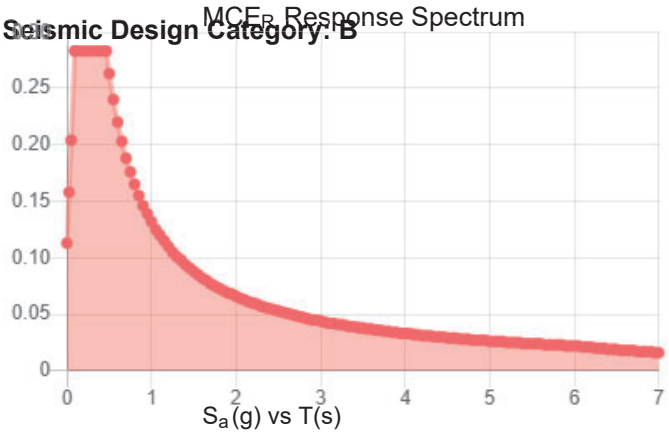
Seismic

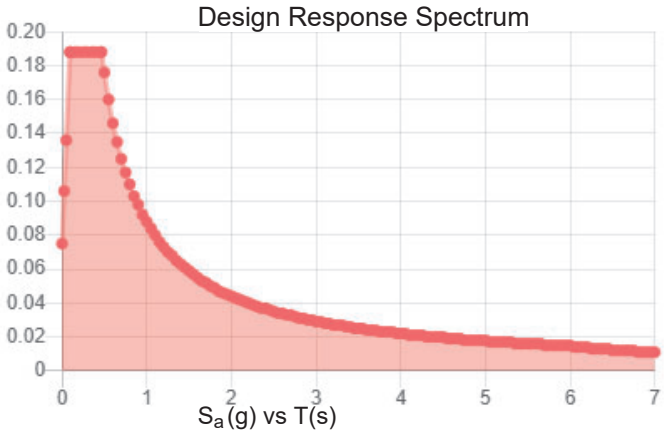
Site Soil Class: D - Default (see Section 11.4.3)

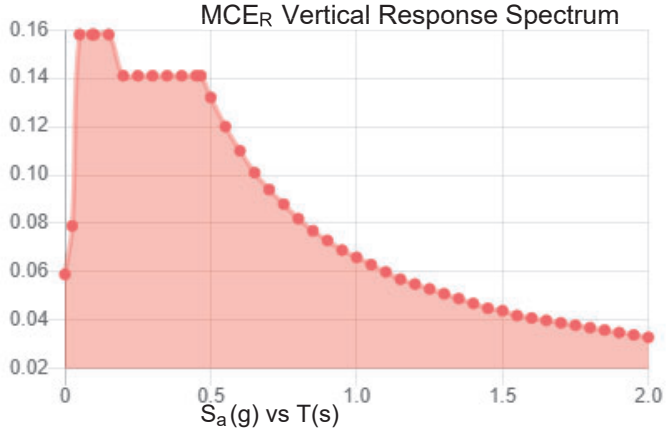
Results:

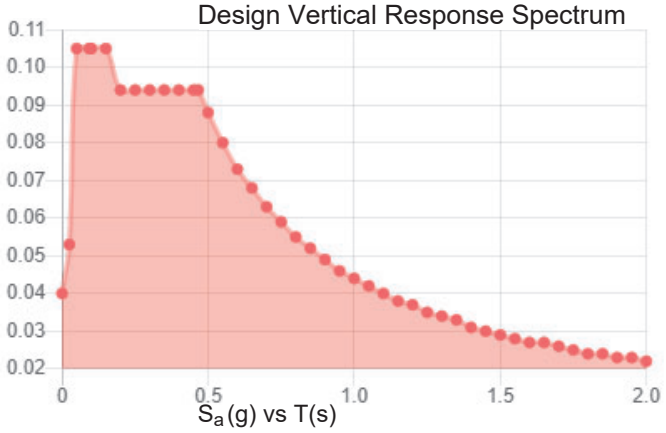
S_S :	0.177	S_{D1} :	0.088
S_1 :	0.055	T_L :	6
F_a :	1.6	PGA :	0.093
F_v :	2.4	PGA_M :	0.149
S_{MS} :	0.283	F_{PGA} :	1.6
S_{M1} :	0.132	I_e :	1
S_{DS} :	0.188	C_v :	0.7

Seismic Design Category: B









Data Accessed: Thu Jan 18 2024

Date Source:

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

Ice

Results:

Ice Thickness:	1.50 in.
Concurrent Temperature:	5 F
Gust Speed	50 mph
Data Source:	Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8
Date Accessed:	Thu Jan 18 2024

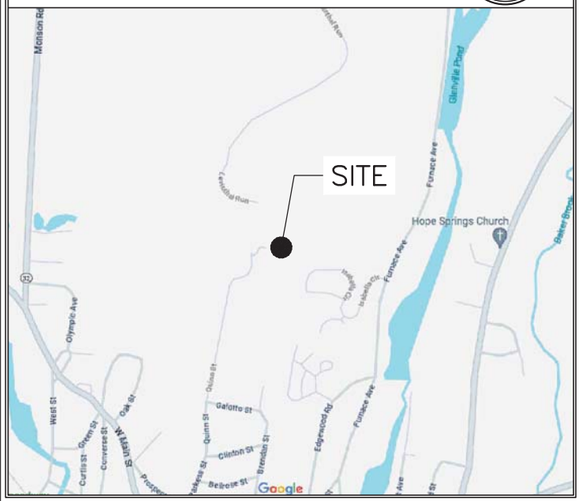
Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

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.

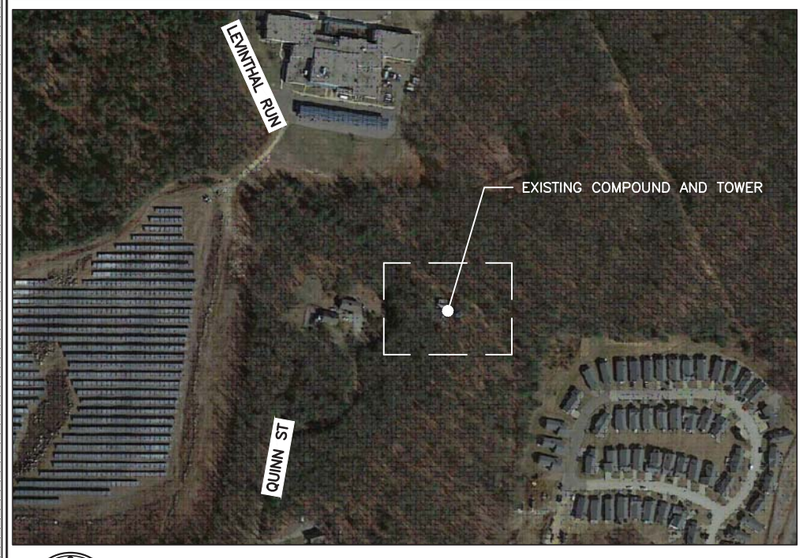
NOTE:
AN ANALYSIS OF THE CAPACITY OF THE STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY MORRISON HERSHFIELD DATED JANUARY 18, 2024.

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.

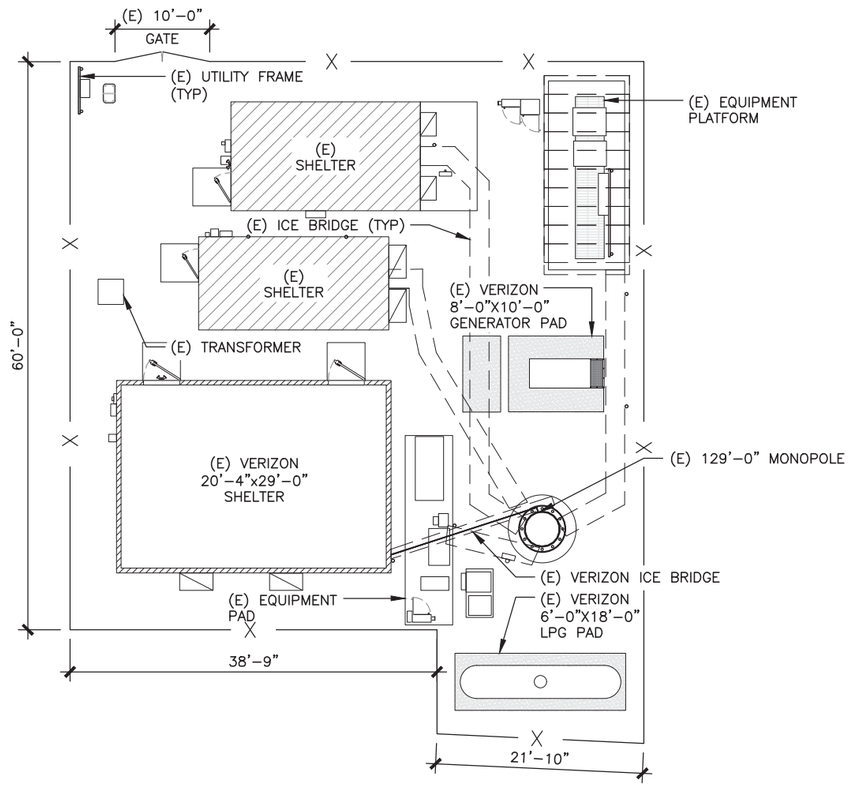
LOCATION MAP
N.T.S



APPROXIMATE COORDINATES:	LATITUDE:	41° 57' 51.20" N	41.964259° N
	LONGITUDE:	72° 18' 17.80" W	72.305007° W

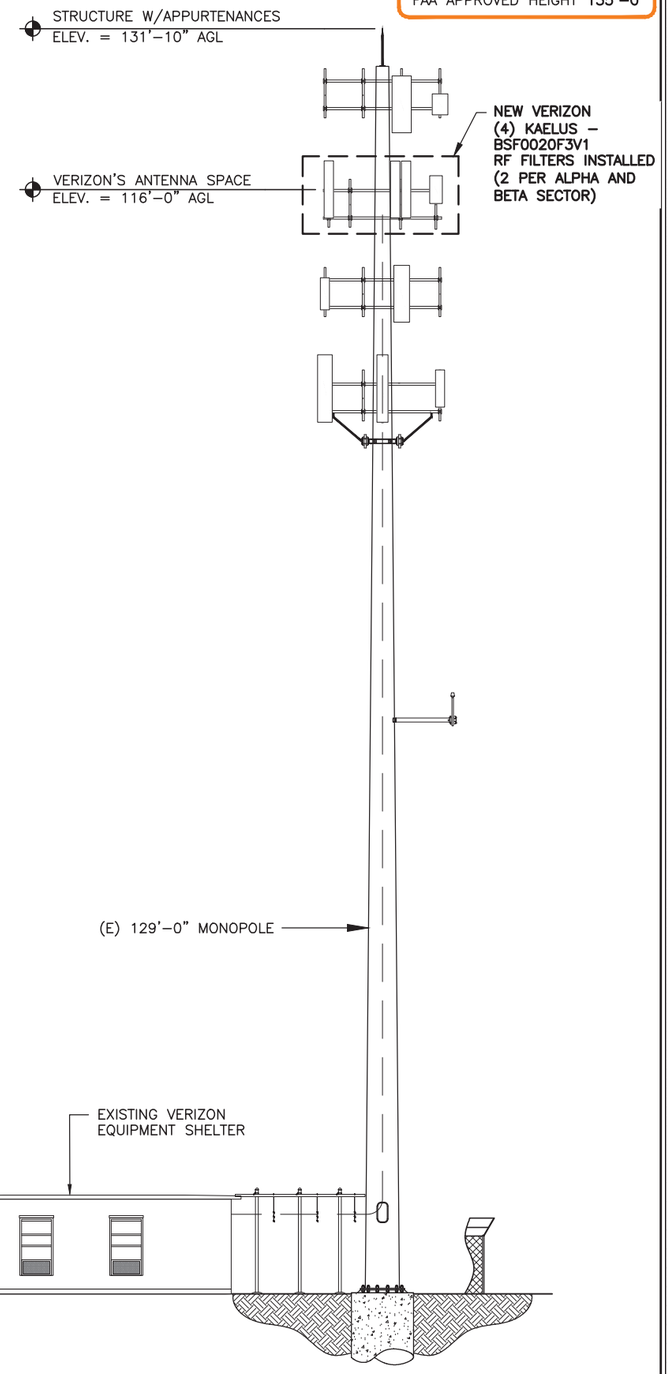


1 PARTIAL SITE / KEY PLAN
SCALE: N.T.S.



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

INSTALLER NOTE:
FAA APPROVED HEIGHT 135'-0"



3 TOWER ELEVATION
SCALE: N.T.S

verizon
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

B+T GRP
MTS ENGINEERING, P.L.L.C.
1717 S. BOULDER
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
btwo@btgrp.com

STAFFORD CT

46 BRENDAN ST
STAFFORD SPRINGS, CT 06076

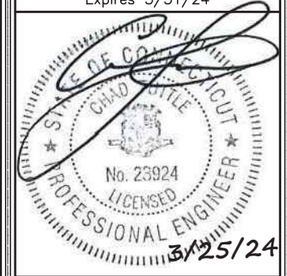
EXISTING MONOPOLE

PROJECT NO:	131593.008.01
CHECKED BY:	LR

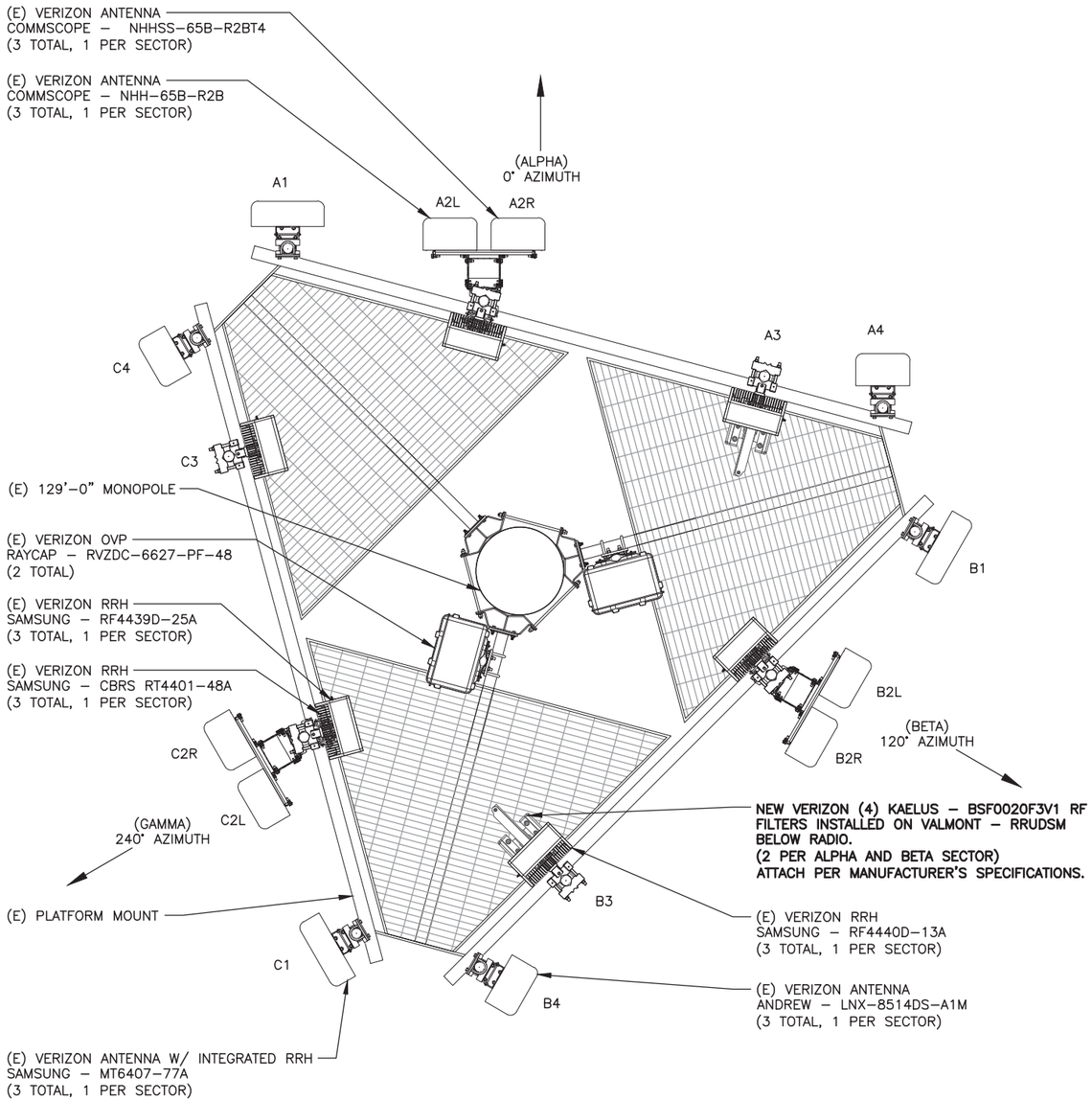
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
0	3/25/24	JDB	CONSTRUCTION

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



SHEET NUMBER:	REVISION:
LE-1	0



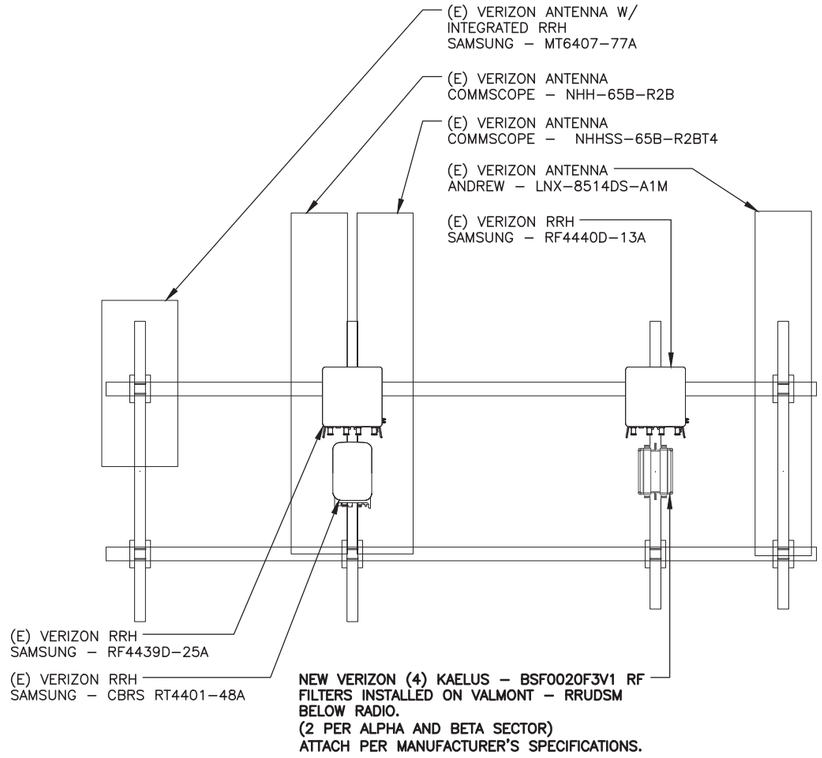
NOTE:

ANTENNA POSITIONS LABELED PER MOUNT ANALYSIS

1 NEW RF FILTER PLAN

SCALE: 0' 1' 2' 4' 8'

N



NOTE:

ELEVATION VIEW FROM BEHIND ANTENNAS

2 NEW RF FILTER ELEVATION

SCALE: 0' 1' 2' 4' 8'

verizon

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

B+T GRP

MTS ENGINEERING, P.L.L.C.
1717 S. BOULDER
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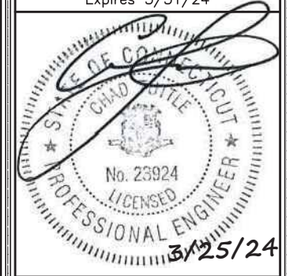
PROJECT NO:	131593.008.01
CHECKED BY:	LR

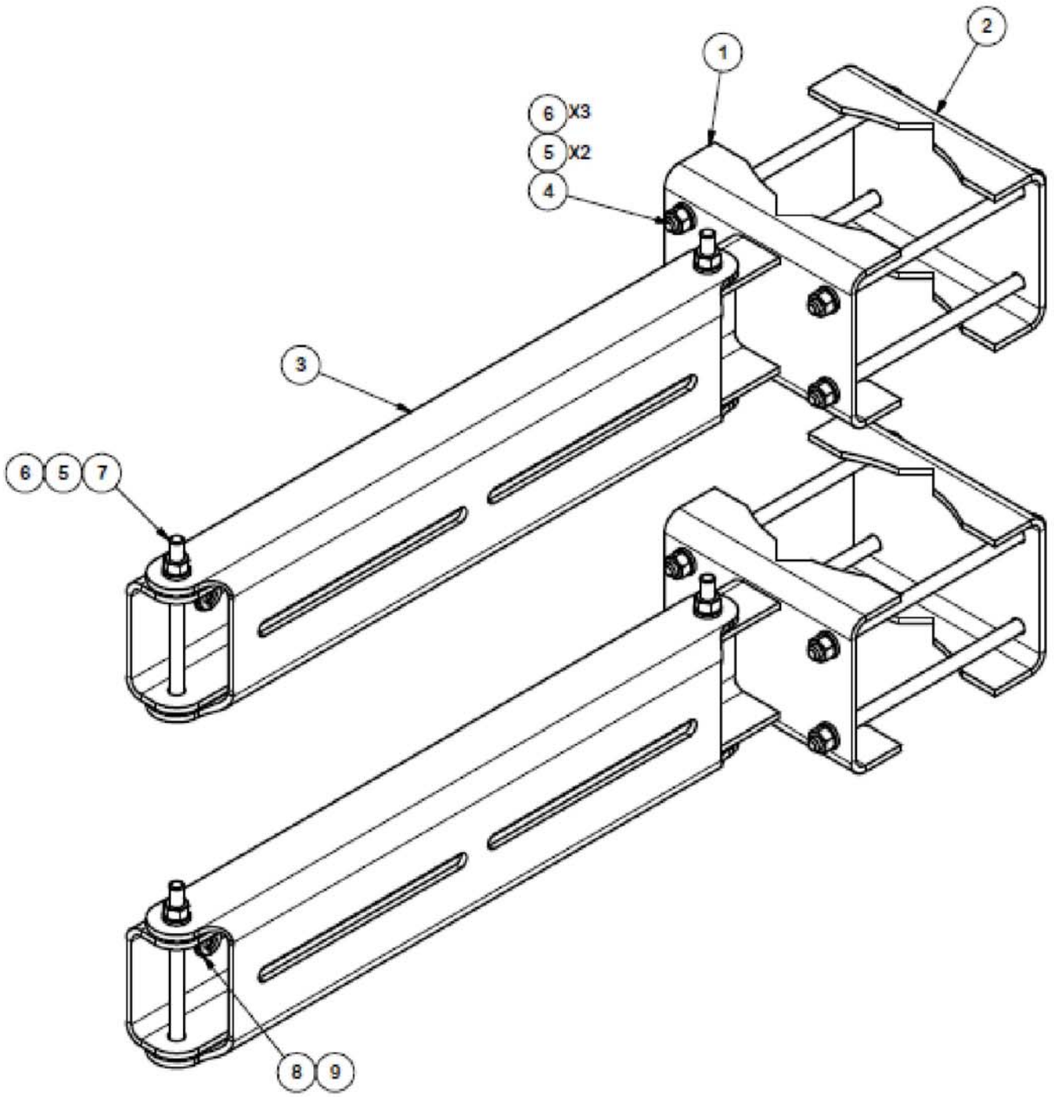
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
0	3/25/24	JDB	CONSTRUCTION

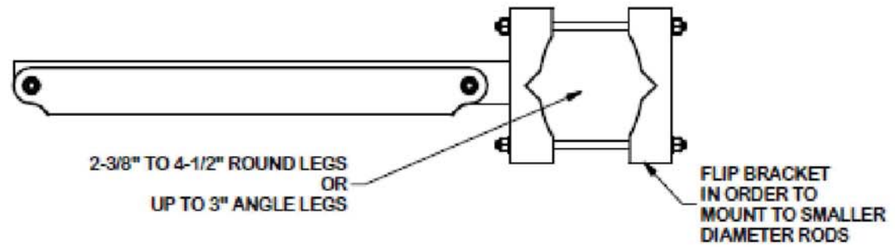
MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/24

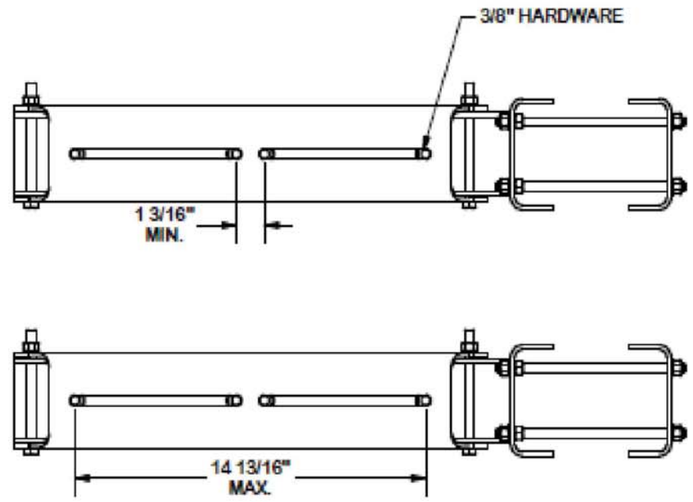


SHEET NUMBER:	REVISION:
LE-2	0



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 *(± 0.030")*
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; Salem, OR; Dallas, TX

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	CEK 1/12/2015		RRUDSM	1 OF 1

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CROWN CASTLE USA INC.
2000 CORPORATE DRIVE
CANONSBURG PA 15317
724-416-2000

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

2966018

SIX HUNDRED TWENTY FIVE AND 00/100********** DATE 05/28/24 $*******625.00

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

2695915

Robert A Cole VP and Controller
Assist. Secretary

VOID AFTER 180 DAYS

⑈2966018⑈ ⑆111000614⑆ 10341045 3⑈

Check No 2966018
Check Date 05/28/24

Stub 1 of 1

CKRQ 806365 669067 ZN APP	05/23/24	Invoice Summ	625.00	625.00
			625.00	625.00