After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

CROWN CASTLE

1 Cityplace Dr, Suite 490
Creve Coeur, MO 63141

Phone: (314) 513-0147
www.crowncastle.com

October 14th, 2022

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

RE: **Notice of Exempt Modification for Verizon Wireless**
Crown Site ID# 806365; Verizon Site ID# 119688
46 Brendon Street (Brendon & Quinn Streets) Stafford, Connecticut 06076
Latitude: 41.964222 / Longitude: -72.304944

Dear Ms. Bachman:

Verizon currently maintains (12) antennas at the 115-foot mounts on the existing 129-foot Monopole Tower located at **46 Brendon Street (Brendon & Quinn Streets) Stafford.** The property is owned by Tiziani LLC and the tower by Crown Castle. Verizon now intends to remove and replace (9) antennas. 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.

Planned Modifications:

Tower:

REMOVE AND REPLACE
(6) Andrew SBNH-108585C Antennas (**REMOVE**) (3) Commscope NHHSS-65B-R2BT4 Antennas (**REPLACE**) & (3) Commscope NHH-65B-R2B (**REPLACE**)
(3) Andrew HBXX-6517DS Antennas (**REMOVE**); Samsung MT6407-77A Antennas (**REPLACE**)
(3) Nokia UHBA B13 RRH (**REMOVE**); (3) Samsung CBRS RRH – RT4401-48A (**REPLACE**)
(3) Nokia UHFA B25 RRH (**REMOVE**); (3) Samsung B2/B66A RRH (**REPLACE**)
(3) Nokia UHIE B66 RRH (**REMOVE**); (3) Samsung B5/B13 RRH (**REPLACE**)
(2) DB 81-6C-12AB-0Z OVP (**REMOVE**); (2) Raycap – RVDC-6627-PF-48_CCIV2 OVP (**REPLACE**)
(2) 1-1/4" Hybrid Cables (**REMOVE**); (2) 6x12 Hybrid Cables (**REPLACE**)

INSTALL
New mounting brackets

Ground:
N/A

CROWN CASTLE

1 Cityplace Dr, Suite 490

Creve Coeur, MO 63141

Phone: (314) 513-0147

www.crowncastle.com

The facility was approved by The Connecticut Siting Council by way of a Certificate of Environmental Compatibility Docket No. 165 on December 5th 1994.

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 Mary Mitta, First Selectwoman of the Town of Stafford and Glenn T. Setzler - Building Official for the Town of Stafford. A copy will also be sent to the property 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).

Sincerely,
Katie Adams
Crown Castle, Agent for Verizon Wireless
kadams@nbcllc.com
(781) 392-7547

CROWN CASTLE

1 Cityplace Dr, Suite 490
Creve Coeur, MO 63141

Phone: (314) 513-0147
www.crowncastle.com

cc:

Mary Mitta, First Selectwoman *(Via Federal Express)*
Warren Memorial Town Hall - Second Floor
1 Main Street
Stafford Springs, CT 06076
(860) 684-1777

Glenn T. Setzler - Building Official *(Via Federal Express)*
Warren Memorial Town Hall - First Floor
1 Main Street
Stafford Springs, CT 06076
860-684-1775

Tiziani LLC *(Via Federal Express)*
1014 Buckley Highway
Union, CT 06076
860-471-1574

Katie Adams

From: TrackingUpdates@fedex.com
Sent: Monday, October 24, 2022 3:32 PM
To: Katie Adams
Subject: FedEx Shipment 770263547350: Your package has been delivered

Hi. Your package was delivered Mon, 10/24/2022 at 3:22pm.

Delivered to 1 MAIN ST, STAFFORD SPRINGS, CT 06076
Received by G.SELTZER

OBTAIN PROOF OF DELIVERY

TRACKING NUMBER	770263547350
FROM	NB+C 100 Apollo Drive Suite 303 CHELMSFORD, MA, US, 01824
TO	Warren Memorial Town Hall Mary Mitta, First Selectwoman 1 Main street 2ndfloor STAFFORD SPRINGS, CT, US, 06076

REFERENCE	100788
SHIPPER REFERENCE	100788
SHIP DATE	Fri 10/21/2022 06:08 PM
DELIVERED TO	Receptionist/Front Desk
PACKAGING TYPE	FedEx Pak
ORIGIN	CHELMSFORD, MA, US, 01824
DESTINATION	STAFFORD SPRINGS, CT, US, 06076
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	1.00 LB
SERVICE TYPE	FedEx Standard Overnight

Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 2:31 PM CDT 10/24/2022.

All weights are estimated.

To track the latest status of your shipment, click on the tracking number above.

Standard transit is the date and time the package is scheduled to be delivered by, based on the selected service, destination and ship date. Limitations and exceptions may apply. Please see the FedEx Service Guide for terms and conditions of service, including the FedEx Money-Back Guarantee, or contact your FedEx Customer Support representative.

Thank you for your business.

Katie Adams

From: TrackingUpdates@fedex.com
Sent: Monday, October 24, 2022 2:40 PM
To: Katie Adams
Subject: FedEx Shipment 770263592397: Your package has been delivered
Attachments: DeliveryPicture.jpeg

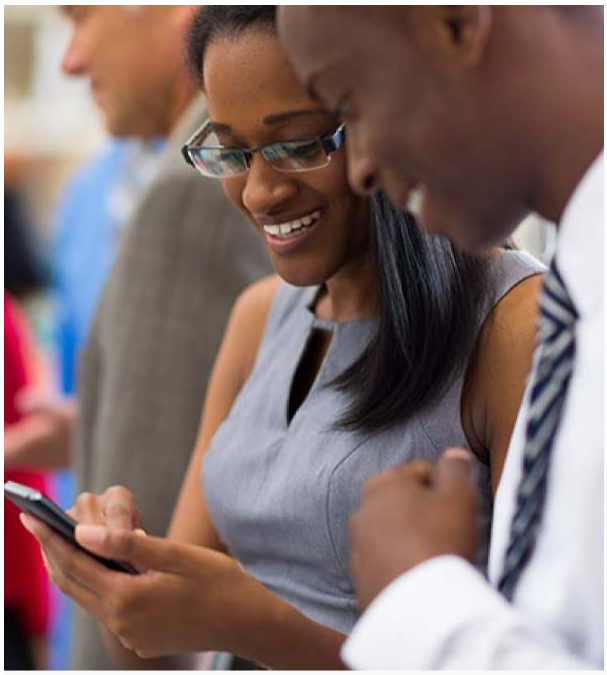
Hi. Your package was delivered Mon, 10/24/2022 at 2:34pm.

Delivered to 1014 BUCKLEY HWY, STAFFORD SPRINGS, CT 06076

OBTAIN PROOF OF DELIVERY

Delivery picture not showing? View in browser.

TRACKING NUMBER	770263592397
FROM	NB+C 100 Apollo Drive Suite 303 CHELMSFORD, MA, US, 01824
TO	Tiziani LLC 1014 Buckley Highway STAFFORD SPRINGS, CT, US, 06076
REFERENCE	100788
SHIPPER REFERENCE	100788
SHIP DATE	Fri 10/21/2022 06:08 PM
DELIVERED TO	Residence
PACKAGING TYPE	FedEx Pak
ORIGIN	CHELMSFORD, MA, US, 01824
DESTINATION	STAFFORD SPRINGS, CT, US, 06076
SPECIAL HANDLING	Deliver Weekday Residential Delivery
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	1.00 LB
SERVICE TYPE	FedEx Standard Overnight



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FOLLOW FEDEX

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Thank you for your business.

Katie Adams

From: TrackingUpdates@fedex.com
Sent: Monday, October 24, 2022 3:32 PM
To: Katie Adams
Subject: FedEx Shipment 770263523217: Your package has been delivered

Hi. Your package was delivered Mon, 10/24/2022 at 3:22pm.

Delivered to 1 MAIN ST, STAFFORD SPRINGS, CT 06076
Received by G.SELTZER

OBTAIN PROOF OF DELIVERY

TRACKING NUMBER	770263523217
FROM	NB+C 100 Apollo Drive Suite 303 CHELMSFORD, MA, US, 01824
TO	Warren Memorial Town Hall Glenn T. Setzler - Building Officia 1 Main street 1st floor STAFFORD SPRINGS, CT, US, 06076

REFERENCE	100788
SHIPPER REFERENCE	100788
SHIP DATE	Fri 10/21/2022 06:08 PM
DELIVERED TO	Receptionist/Front Desk
PACKAGING TYPE	FedEx Pak
ORIGIN	CHELMSFORD, MA, US, 01824
DESTINATION	STAFFORD SPRINGS, CT, US, 06076
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	1.00 LB
SERVICE TYPE	FedEx Standard Overnight

Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 2:32 PM CDT 10/24/2022.

All weights are estimated.

To track the latest status of your shipment, click on the tracking number above.

Standard transit is the date and time the package is scheduled to be delivered by, based on the selected service, destination and ship date. Limitations and exceptions may apply. Please see the FedEx Service Guide for terms and conditions of service, including the FedEx Money-Back Guarantee, or contact your FedEx Customer Support representative.

Thank you for your business.

Exhibit A

Original Facility Approval

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

Exhibit B

Property Card

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	**Sale Price**	$0
Co-Owner	C/O TIZIANI GLENN+PETER	**Certificate**	1
Address	1014 BUCKLEY HWY UNION, CT 06076	**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	

Building Photo

(http://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**
2019	$18,400	$254,000	$272,400
2018	$18,400	$254,000	$272,400
2017	$18,400	$254,000	$272,400

Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2019	$12,880	$177,800	$190,680
2018	$12,880	$177,800	$190,680
2017	$12,880	$177,800	$190,680

Exhibit C

Construction Drawings

VERIZON SITE NUMBER: 119688
VERIZON SITE NAME: STAFFORD CT
SITE TYPE: MONOPOLE
TOWER HEIGHT: 129'-0"

BUSINESS UNIT #: 806365
SITE ADDRESS: BRENDON & QUINN STREETS STAFFORD, CT 06076
COUNTY: TOLLAND
JURISDICTION: CONNECTICUT SITING COUNCIL

VERIZON 5G L-SUB6 - CARRIER ADD

SITE INFORMATION

CROWN CASTLE USA INC. SITE NAME:	HRT 303 943203
SITE ADDRESS:	BRENDON & QUINN STREETS STAFFORD, CT 06076
COUNTY:	TOLLAND
MAP/PARCEL #:	09013134-49/4
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41.964222°
LONGITUDE:	-72.304944°
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	785'
CURRENT ZONING:	ST, A
JURISDICTION:	CONNECTICUT SITING COUNCIL
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	TIZIANI LLC 1014 BUCKLEY HWY UNION, CT 06076
TOWER OWNER:	CROWN CASTLE 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	VERIZON WIRELESS 180 WASHINGTON VALLEY ROAD BEDMINSTER, NJ 07921
ELECTRIC PROVIDER:	CONNECTICUT LIGHT & POWER CO 1 (800) 286-2000
TELCO PROVIDER:	NOT PROVIDED

PROJECT TEAM

A&E FIRM:	B+T GROUP 1717 S. BOULDER AVE. TULSA, OK 74119 MARVIN PHILLIPS marvin.phillips@btgrp.com
CROWN CASTLE USA INC. DISTRICT CONTACTS:	3 CORPORATE PARK DRIVE, SUITE 101 CLIFTON PARK, NY 12065 WILLIAM GATES - PROJECT MANAGER WILLIAM.GATES@CROWNCASTLE.COM JASON D'AMICO - CONSTRUCTION MANAGER JASON.DAMICO@CROWNCASTLE.COM
VERIZON CONTACT:	ANDREW LEONE ALEONE@STRUCTURECONSULTING.NET

DRAWING INDEX

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1	SITE PLAN
C-2	TOWER ELEVATION & ANTENNA PLANS
C-3	EQUIPMENT SCHEDULES
C-4	EQUIPMENT DETAILS
C-5	EQUIPMENT DETAILS
C-6	PLUMBING DIAGRAM
G-1	GROUNDING DETAILS
G-2	GROUNDING DETAILS

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

APPROVALS

SIGNATURE	DATE

CONTRACTOR PMI REQUIREMENTS

PMI ACCESSED AT	https://pmi.vxwsmart.com
SMART TOOL VENDOR PROJECT NUMBER	10149600
VzW LOCATION CODE (PSLC)	467489

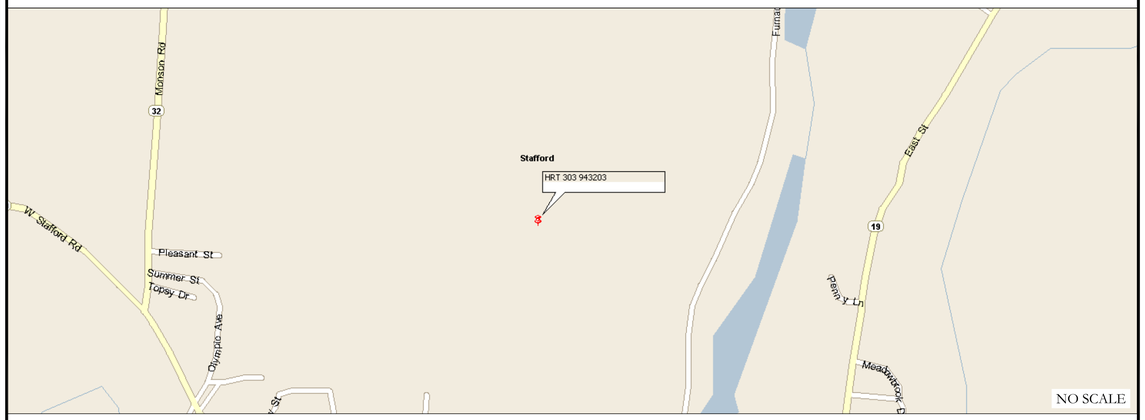
*** PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT

MOUNT MODIFICATION REQUIRED	**Y**

VzW APPROVED SMART KIT VENDORS

REFER TO MOUNT MODIFICATION DRAWINGS PAGE FOR VzW SMART KIT APPROVED VENDORS

LOCATION MAP



NO SCALE

DRIVING DIRECTIONS FROM VERIZON LOCAL OFFICE (200 MERROW RD STE L, TOLLAND, CT 06084)
CONTINUE TO CT-195 N, TAKE I-84 E AND CT-32 N/RIVER RD TO CHURCH ST IN STAFFORD, CONTINUE ON CHURCH ST TO YOUR DESTINATION, TURN RIGHT ONTO CHURCH ST, TURN RIGHT ONTO PARKESS ST, CONTINUE ONTO QUINN ST, TURN RIGHT AND ARRIVE AT HRT 303 943203.

APPLICABLE CODES/REFERENCE DOCUMENTS

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

CODE TYPE	CODE
BUILDING	2015 IBC
MECHANICAL	2015 IMC
ELECTRICAL	2017 NEC

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS:	B+T GROUP
DATED:	5/24/22
MOUNT ANALYSIS:	MASER CONSULTING CONNECTICUT
DATED:	6/9/22
RFDS REVISION:	N/A
DATED:	5/16/22
ORDER ID:	618842
REVISION:	0

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

PROJECT DESCRIPTION

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

TOWER SCOPE OF WORK:
- REMOVE (9) ANTENNAS
- REMOVE (9) RRHs
- REMOVE (9) OVPs
- REMOVE (2) 1-1/4" HYBRID CABLE
- INSTALL (9) ANTENNAS
- INSTALL (9) RRHs
- INSTALL (2) OVPs
- INSTALL (2) 6x12 HYBRID CABLE
- INSTALL (3) SIDE-BY-SIDE MOUNT BRACKETS
- INSTALL MOUNT MODIFICATION REQUIRED PER MOUNT ANALYSIS REPORT BY MASER CONSULTING CONNECTICUT DATED JUNE 19, 2022

GROUND SCOPE OF WORK:
NO CHANGES

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

verizon
180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

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

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

VERIZON SITE NUMBER:
119688

BU #: **806365**
HRT 303 943203

BRENDON & QUINN STREETS
STAFFORD, CT 06076

EXISTING 129'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	7/6/22	DAS	CONSTRUCTION	MTJ

MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/23

SHEET NUMBER: T-1

REVISION: 0

CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

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

GENERAL NOTES:

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

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

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

GREENFIELD GROUNDING NOTES:

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

ELECTRICAL INSTALLATION NOTES:

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

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

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

APWA UNIFORM COLOR CODE:

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

ABBREVIATIONS:

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

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180 WASHINGTON VALLEY ROAD
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CROWN CASTLE

3 CORPORATE PARK DRIVE, SUITE 101
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SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
www.btgrp.com

VERIZON SITE NUMBER:
119688

BU #: 806365
HRT 303 943203

BRENDON & QUINN STREETS
STAFFORD, CT 06076

EXISTING 129'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	7/6/22	DAS	CONSTRUCTION	MTJ

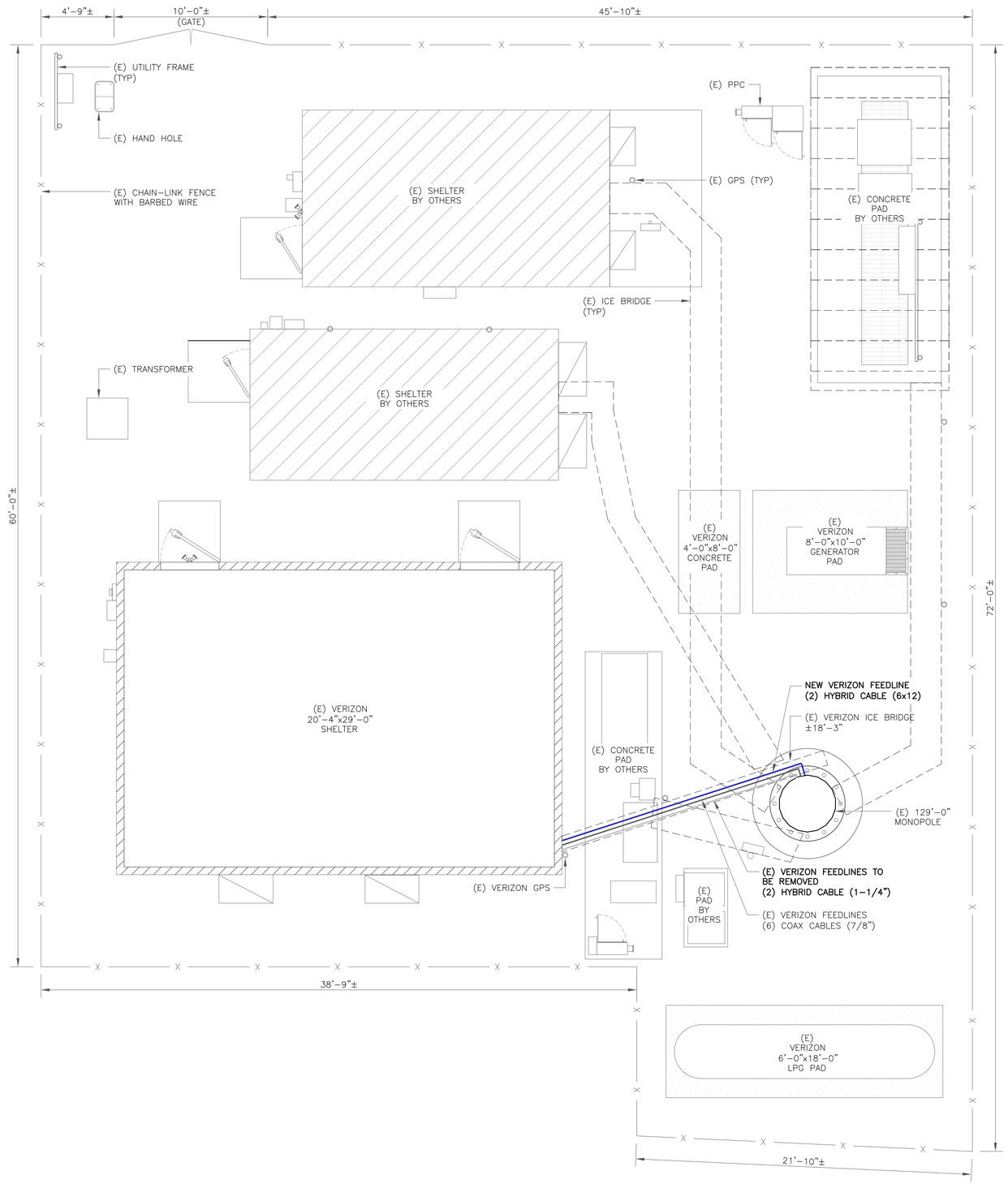
No. 23924
7/6/22

MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/23

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

SHEET NUMBER: T-2
REVISION: 0

131593.006.01_HRT 303 943203_.dwg — Sheet:T-2 — User: mjones — Jul 06, 2022 — 9:34am



1 SITE PLAN

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

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HRT 303 943203

BRENDON & QUINN STREETS
STAFFORD, CT 06076

EXISTING 129'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
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STATE OF CONNECTICUT
MICHAEL T. JONES
No. 23924
LICENSED
PROFESSIONAL ENGINEER
7/6/22

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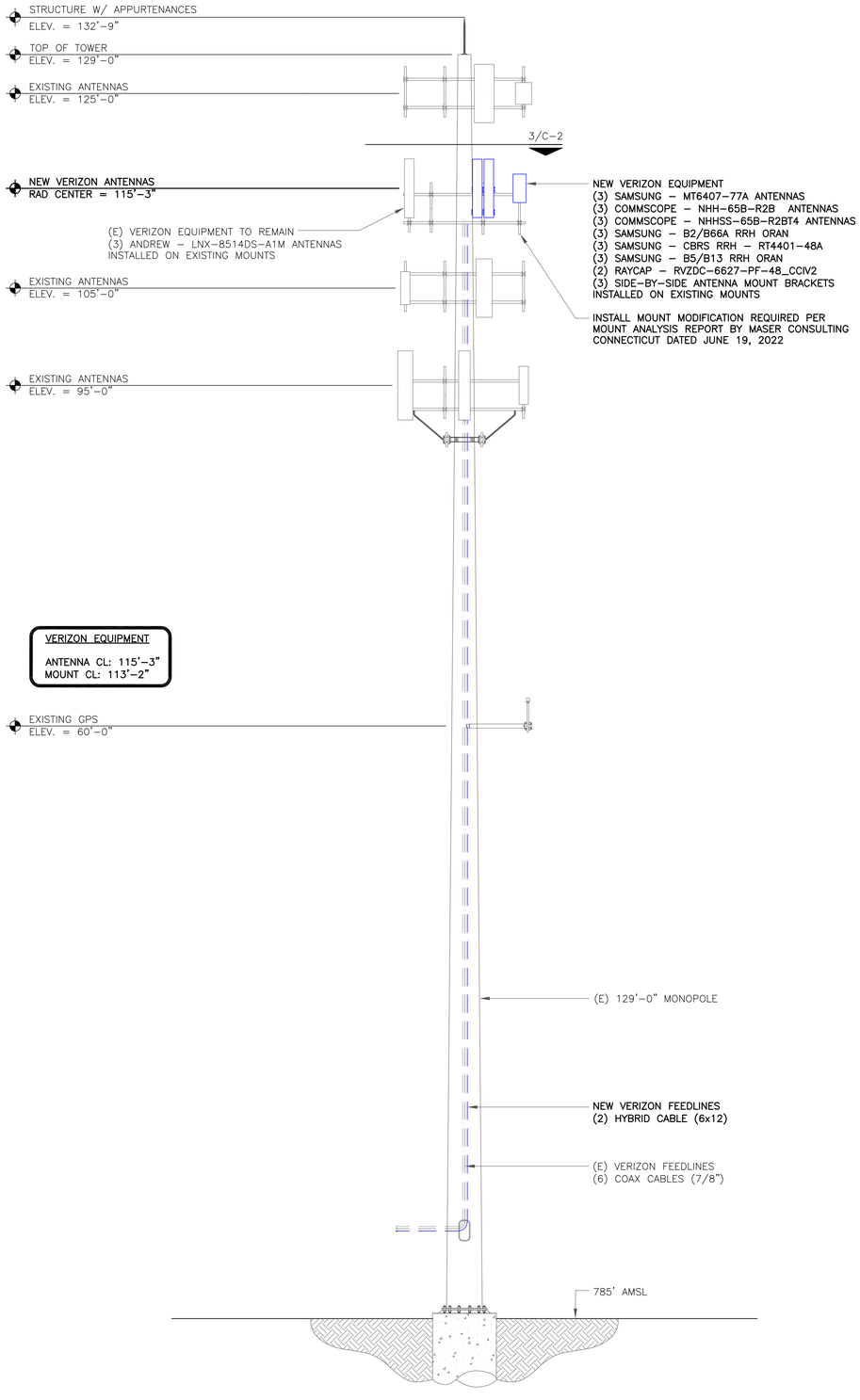
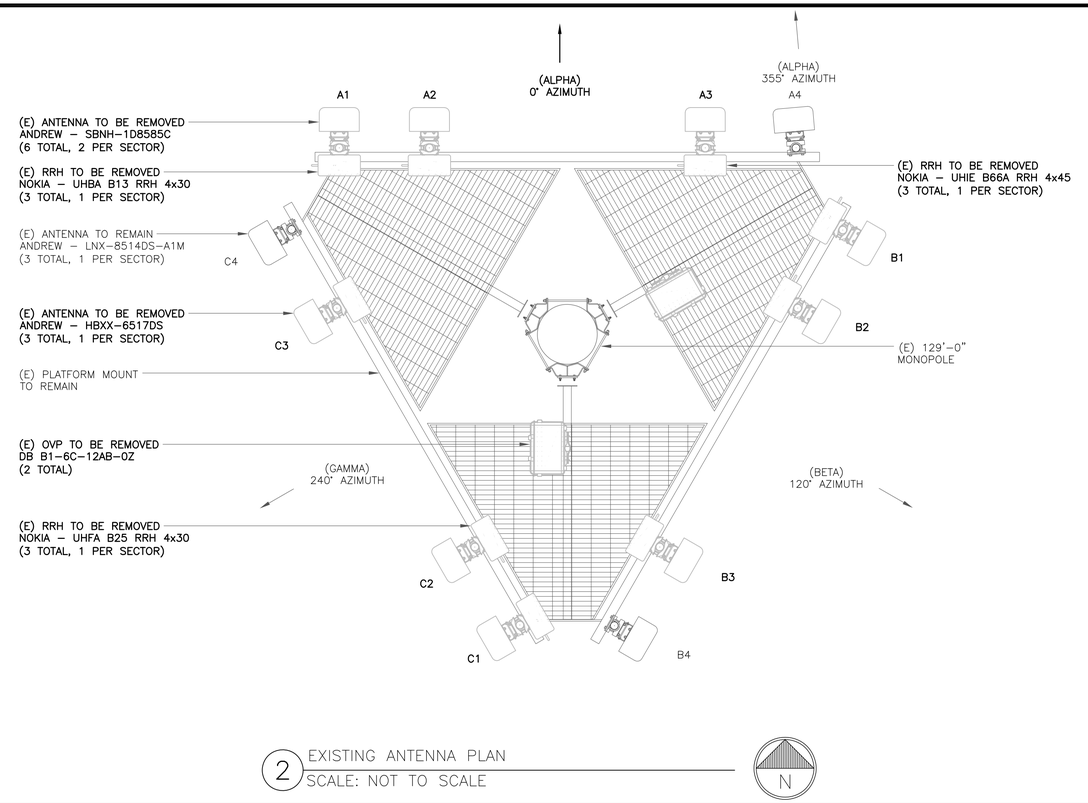
Expires 3/31/23

SHEET NUMBER: C-1

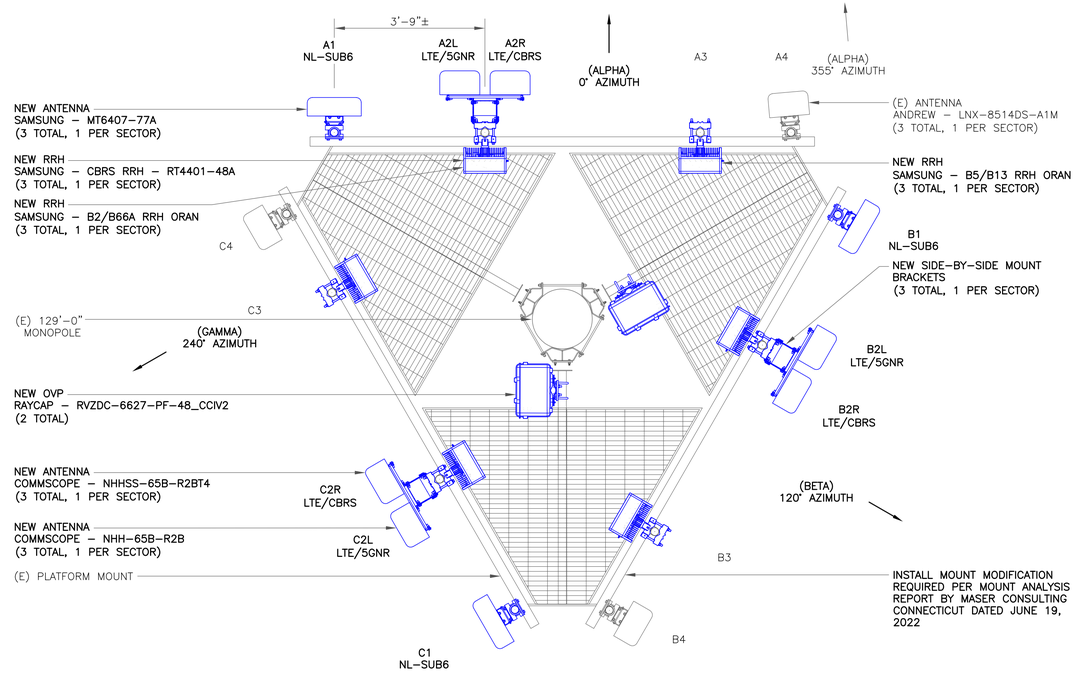
REVISION: 0



1 TOWER ELEVATION
SCALE: NOT TO SCALE



2 EXISTING ANTENNA PLAN
SCALE: NOT TO SCALE



3 NEW ANTENNA PLAN
SCALE: NOT TO SCALE

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BRENDON & QUINN STREETS
STAFFORD, CT 06076

EXISTING 129'-0" MONOPOLE

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MTS ENGINEERING P.L.L.C.
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Expires 3/31/23

SHEET NUMBER: C-2

REVISION: 0

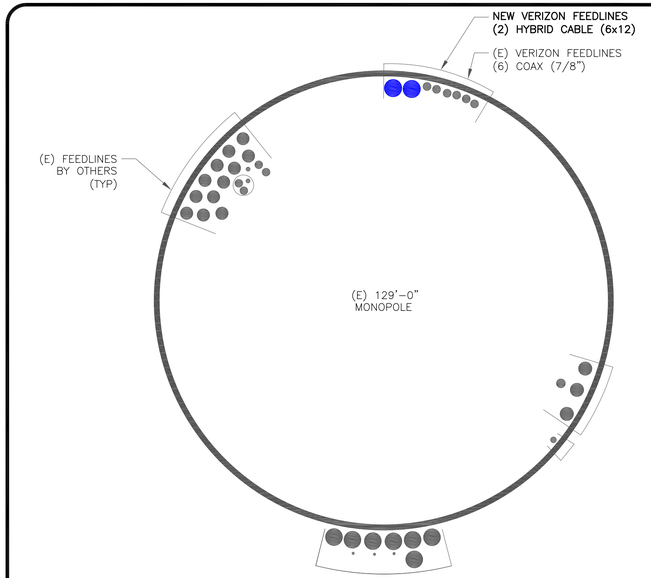
ANTENNA/RRH SCHEDULE

SECTOR	STATUS	ANTENNA MANUFACTURER	ANTENNA MODEL	ANTENNA CENTERLINE	AZIMUTH	MECHANICAL DOWNTILTS	ELECTRICAL DOWNTILTS	TOWER EQUIPMENT MANUFACTURER	TOWER EQUIPMENT QTY/MODEL
A1	NEW	SAMSUNG	MT6407-77A	115'-3"	0°	0°	6°	–	INTEGRATED WITHIN
A2L	NEW	COMMSCOPE	NHH-65B-R2B	115'-3"	0°	0°	4°/4°/4°/2°	SAMSUNG SAMSUNG	(1) B2/B66A RRH ORAN (1) CBRS RRH – RT4401-48A
A2R	NEW	COMMSCOPE	NHHSS-65B-R2BT4	115'-3"	0°	0°	4°/2°	SAMSUNG	(1) B5/B13 RRH ORAN
A4	EXISTING	ANDREW	LNX-8514DS-A1M	115'-3"	355°	0°	5°	RAYCAP	(1) RVZDC-6627-PF-48_CCIV2
B1	NEW	SAMSUNG	MT6407-77A	115'-3"	120°	0°	6°	–	INTEGRATED WITHIN
B2L	NEW	COMMSCOPE	NHH-65B-R2B	115'-3"	120°	0°	2°/2°/2°/1°	SAMSUNG SAMSUNG	(1) B2/B66A RRH ORAN (1) CBRS RRH – RT4401-48A
B2R	NEW	COMMSCOPE	NHHSS-65B-R2BT4	115'-3"	120°	0°	4°/1°	SAMSUNG	(1) B5/B13 RRH ORAN
B4	EXISTING	ANDREW	LNX-8514DS-A1M	115'-3"	120°	0°	0°	RAYCAP	(1) RVZDC-6627-PF-48_CCIV2
C1	NEW	SAMSUNG	MT6407-77A	115'-3"	240°	0°	6°	–	INTEGRATED WITHIN
C2L	NEW	COMMSCOPE	NHH-65B-R2B	115'-3"	240°	0°	2°/2°/2°/1°	SAMSUNG SAMSUNG	(1) B2/B66A RRH ORAN (1) CBRS RRH – RT4401-48A
C2R	NEW	COMMSCOPE	NHHSS-65B-R2BT4	115'-3"	240°	0°	4°/1°	SAMSUNG	(1) B5/B13 RRH ORAN
C4	EXISTING	ANDREW	LNX-8514DS-A1M	115'-3"	240°	0°	0°	–	–

1 VERIZON TOWER EQUIPMENT SCHEDULE
SCALE: NOT TO SCALE

CABLE SCHEDULE

STATUS	CABLE TYPE	SIZE	LENGTH	QTY
EXISTING	COAX	7/8"	167'-0"±	6
EXISTING	HYBRID	–	–	–
NEW	HYBRID	6x12	167'-0"±	2
TOTAL CABLE QTY:				8



2 BASE LEVEL DETAIL
SCALE: NOT TO SCALE

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VERIZON SITE NUMBER:
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BU #: **806365**
HRT 303 943203

BRENDON & QUINN STREETS
STAFFORD, CT 06076

EXISTING 129'-0" MONOPOLE

ISSUED FOR:

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MTS ENGINEERING P.L.L.C.
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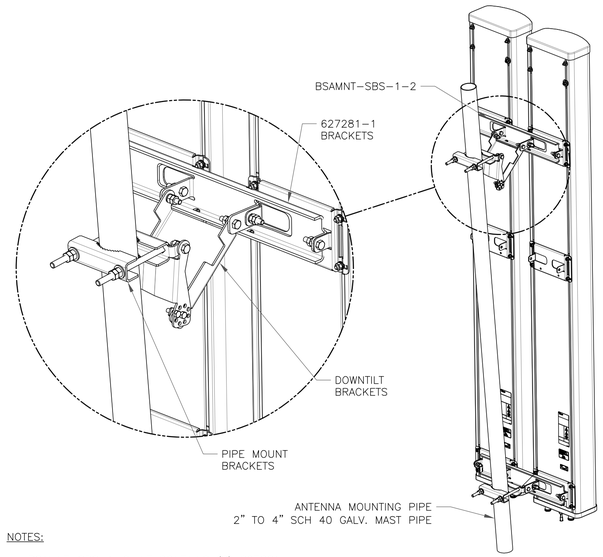
Expires 3/31/23

SHEET NUMBER: C-3
REVISION: 0

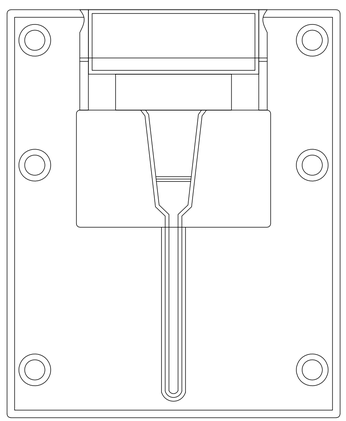


NOTES:

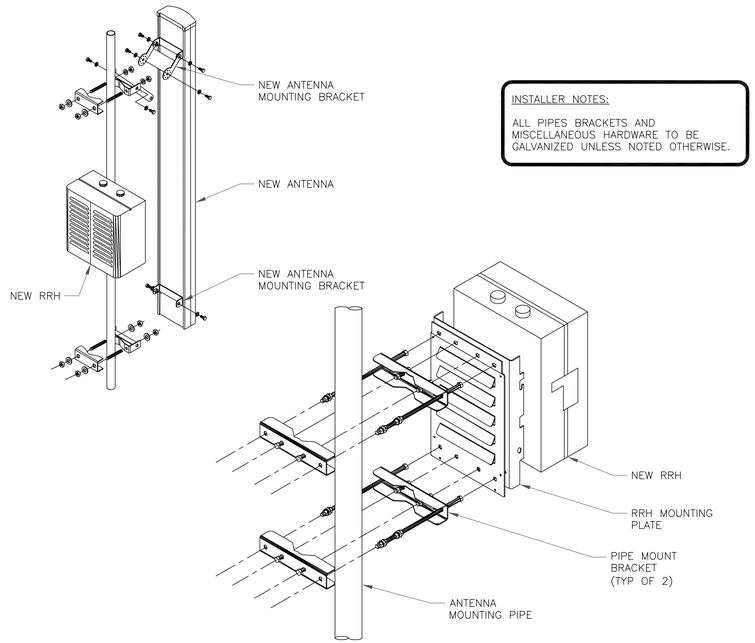
- BSAMNT-SBS-1-2 KIT CONTAINS (2) 627281 MOUNTING BRACKETS.
- TORQUE THE M10 BOLT ASSEMBLY TO 37 N.m. PER MANUFACTURE'S RECOMMENDATIONS.

1 COMMSCOPE – BSAMNT-SBS-1-2
SCALE: NOT TO SCALE

2 NOT USED
SCALE: NOT TO SCALE



3 SAMSUNG – EP97-01585A BRACKET DETAIL
SCALE: NOT TO SCALE



INSTALLER NOTES:

ALL PIPES BRACKETS AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.

4 ANTENNA & RRH MOUNTING DETAIL
SCALE: NOT TO SCALE

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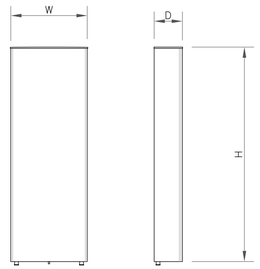
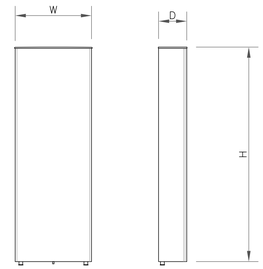
SHEET NUMBER: C-4

REVISION: 0



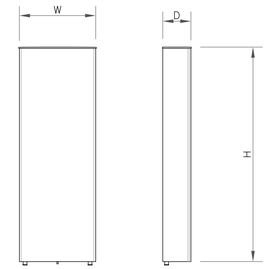
ANTENNA SPECS	
MANUFACTURER	SAMSUNG
MODEL #	MT6407-77A
WIDTH	16.06"
DEPTH	5.51"
HEIGHT	35.06"
WEIGHT	81.57 LBS

1 ANTENNA SPECS
SCALE: NOT TO SCALE



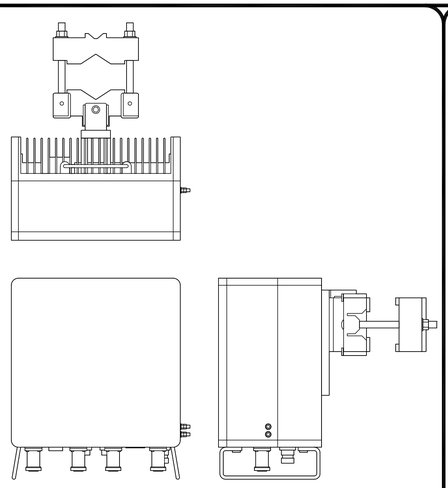
ANTENNA SPECS	
MANUFACTURER	COMMSCOPE
MODEL #	NHH-65B-R2B
WIDTH	11.9"
DEPTH	7.1"
HEIGHT	72"
WEIGHT	43.7 LBS

2 ANTENNA SPECS
SCALE: NOT TO SCALE



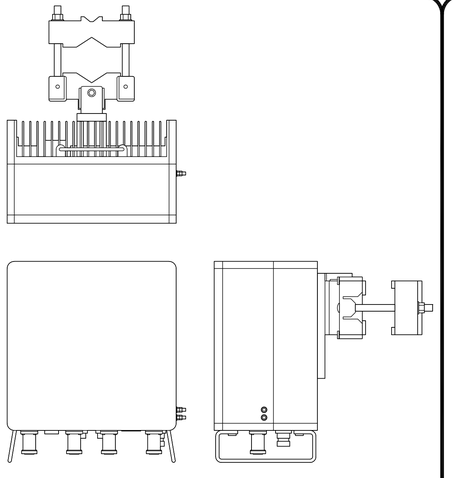
ANTENNA SPECS	
MANUFACTURER	COMMSCOPE
MODEL #	NHHSS-65B-R2BT4
WIDTH	11.85"
DEPTH	7.13"
HEIGHT	71.97"
WEIGHT	50.93 LBS

3 ANTENNA SPECS
SCALE: NOT TO SCALE



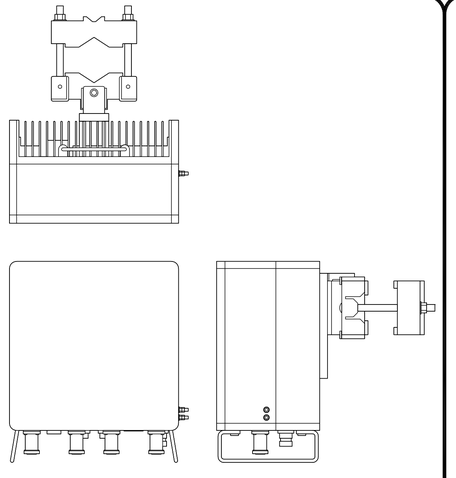
RRU SPECS	
MANUFACTURER	SAMSUNG
MODEL #	B5/B13 RRH-BR04C
WIDTH	15.00"
DEPTH	10.00"
HEIGHT	15.00"
WEIGHT	84.40 LBS

4 RRU SPECS
SCALE: NOT TO SCALE



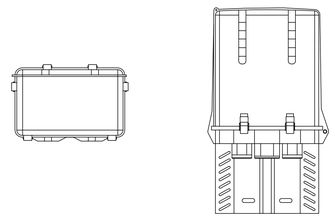
RRU SPECS	
MANUFACTURER	SAMSUNG
MODEL #	B2/B66A RRH-BR049
WIDTH	15.00"
DEPTH	8.10"
HEIGHT	15.00"
WEIGHT	70.30 LBS

5 RRU SPECS
SCALE: NOT TO SCALE



RRU SPECS	
MANUFACTURER	SAMSUNG
MODEL #	CBRS RRH - RT4401-48A
WIDTH	8.55"
DEPTH	4.15"
HEIGHT	13.91"
WEIGHT	18.64 LBS

6 RRU SPECS
SCALE: NOT TO SCALE



RAYCAP - (RVZDC-6627-PF-48_CCIV2
WEIGHT (WITHOUT MOUNTING HARDWARE): 32.0 LBS
SIZE (HxWxD): 29.5x16.5x12.6 IN.

RATED WIND VELOCITY: 150 MPH (SUSTAINED)
OPERATING TEMPERATURE: -40° C TO +80° C
NOMINAL OPERATING DC VOLTAGE: 48 VDC

7 OVP SPECS
SCALE: NOT TO SCALE

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BU #: **806365**
HRT 303 943203

BRENDON & QUINN STREETS
STAFFORD, CT 06076

EXISTING 129'-0" MONOPOLE

ISSUED FOR:

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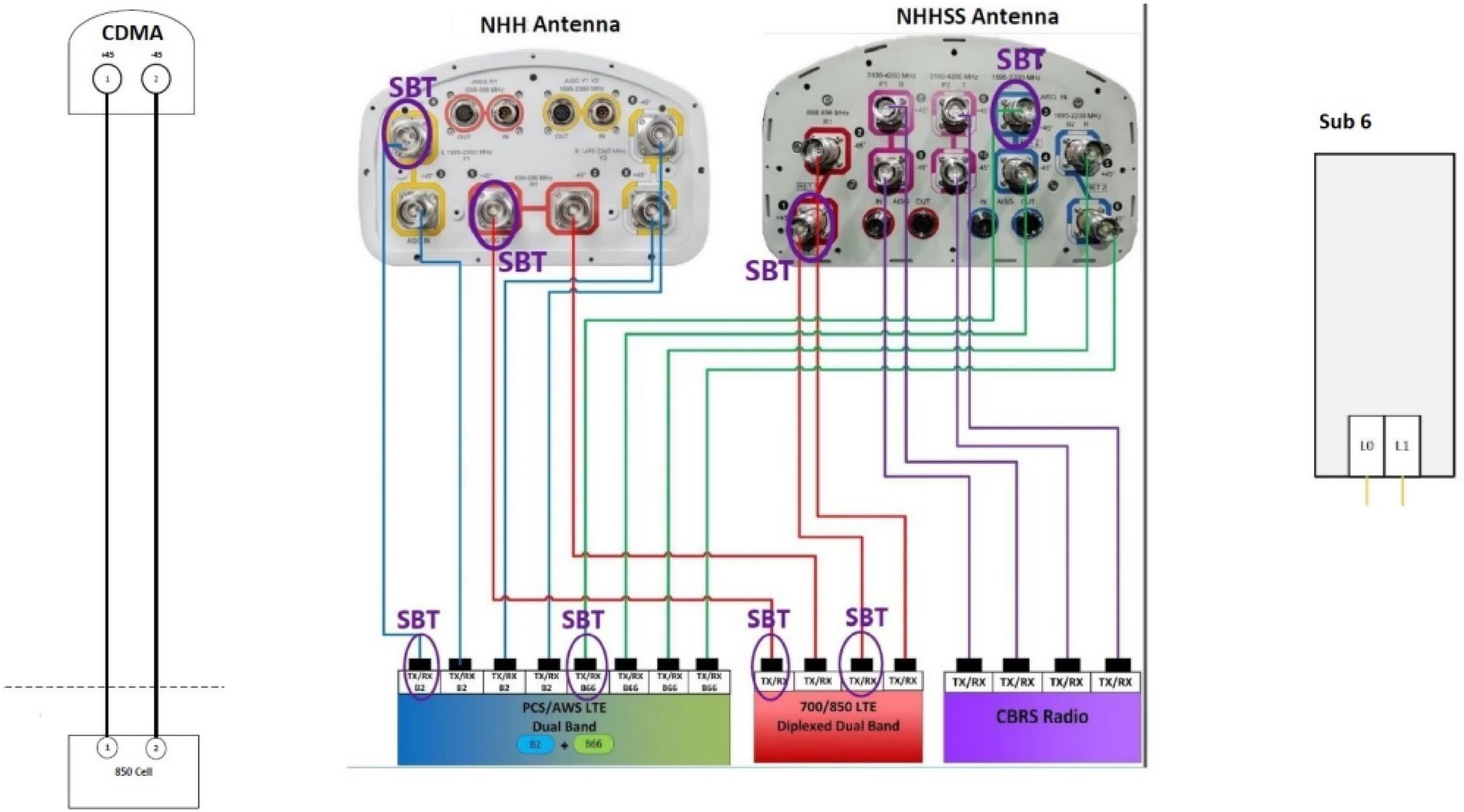
SHEET NUMBER: C-5

REVISION: 0



1 PLUMBING DIAGRAM
SCALE: NOT TO SCALE

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STATE OF CONNECTICUT
No. 23924
LICENSED
PROFESSIONAL ENGINEER
7/6/22

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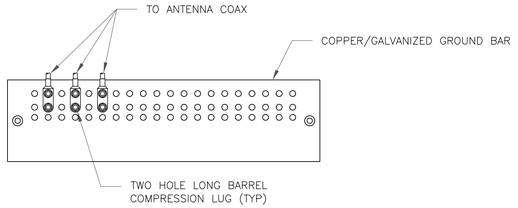
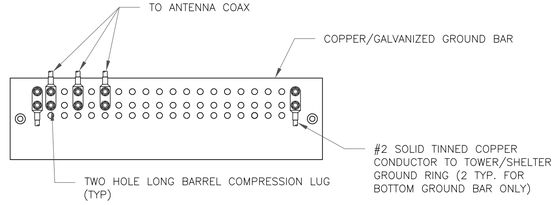
SHEET NUMBER: C-6
REVISION: 0



NOTES:

1. DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
2. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
3. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO ANTENNA MOUNT STEEL.

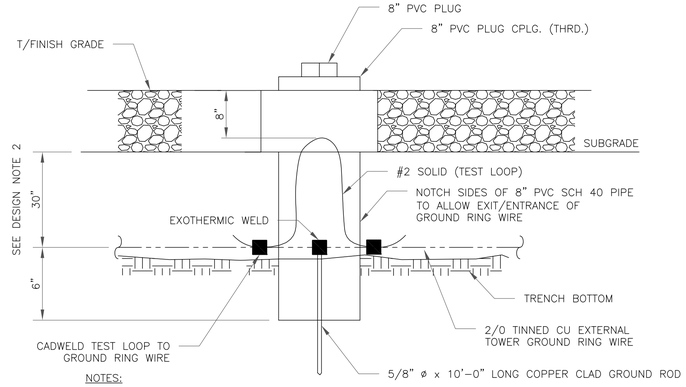
1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

1. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
2. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
3. GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

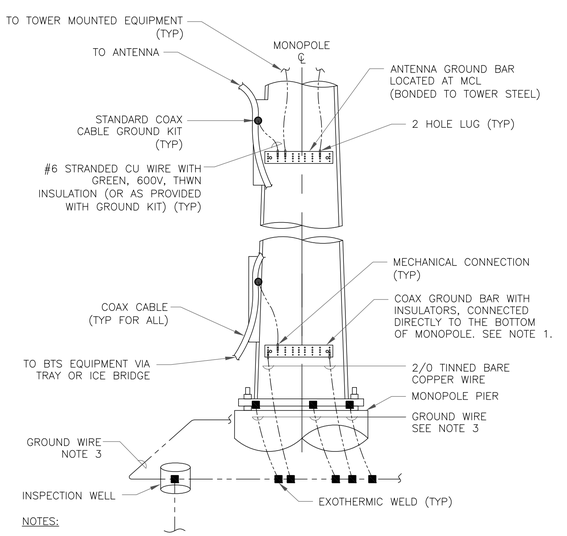
2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

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

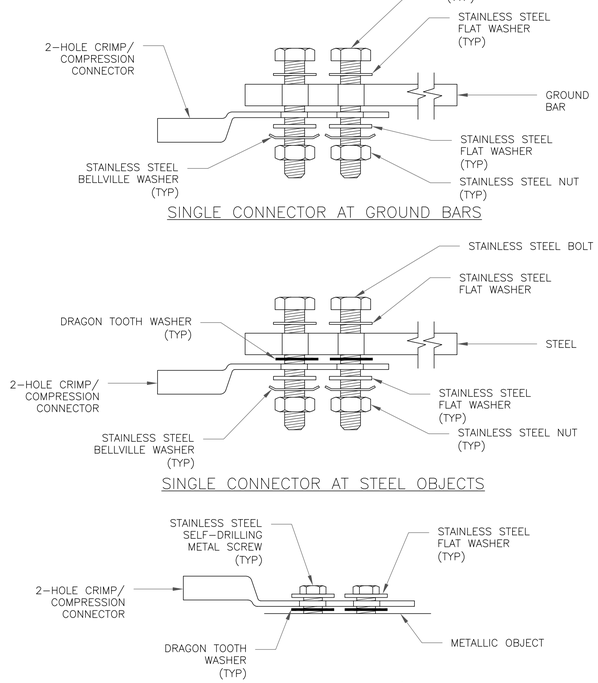
3 INSPECTION WELL DETAIL
SCALE: NOT TO SCALE



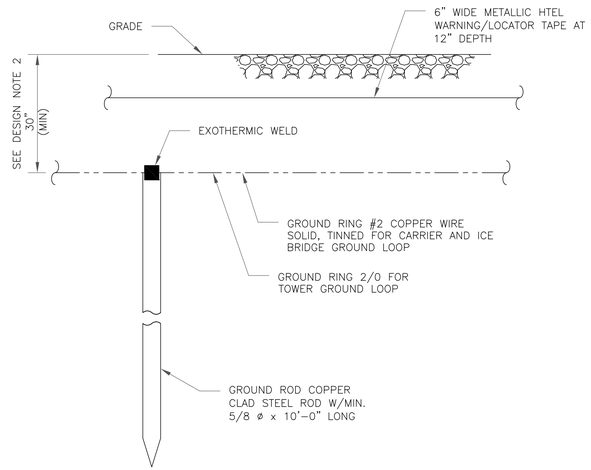
NOTES:

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

4 TYPICAL ANTENNA CABLE GROUNDING
SCALE: NOT TO SCALE



5 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



NOTES:

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

6 GROUND ROD DETAIL
SCALE: NOT TO SCALE

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180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

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

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

VERIZON SITE NUMBER:
119688

BU #: **806365**
HRT 303 943203

BRENDON & QUINN STREETS
STAFFORD, CT 06076

EXISTING 129'-0" MONOPOLE

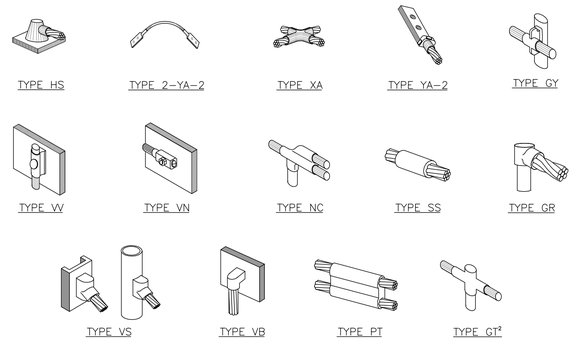
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	7/6/22	DAS	CONSTRUCTION	MTJ

MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/23

SHEET NUMBER: G-1

REVISION: 0

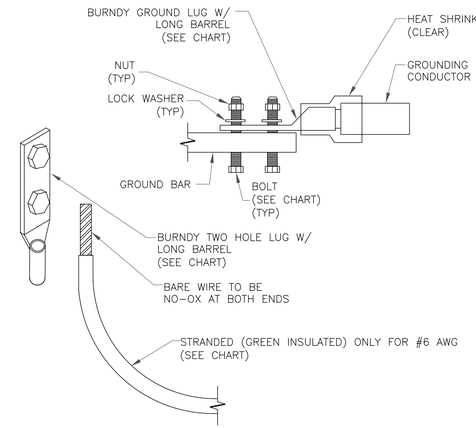


NOTE:

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

1 CADWELD GROUNDING CONNECTIONS
SCALE: NOT TO SCALE

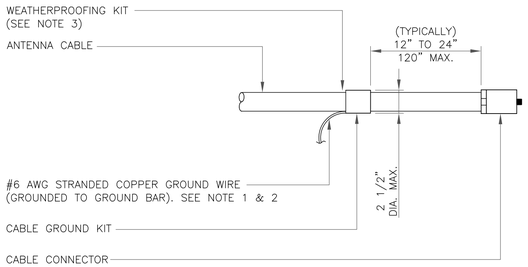
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



NOTES:

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

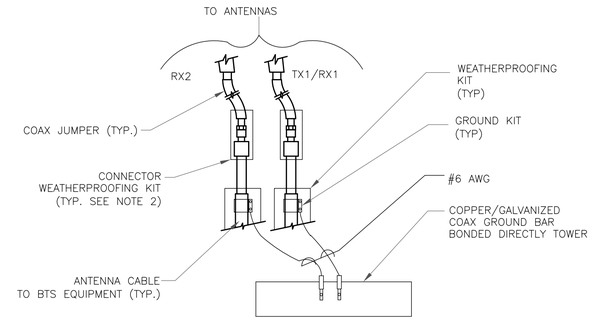
2 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

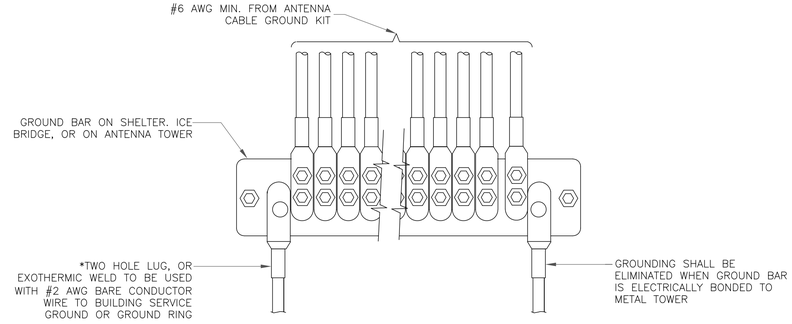
3 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



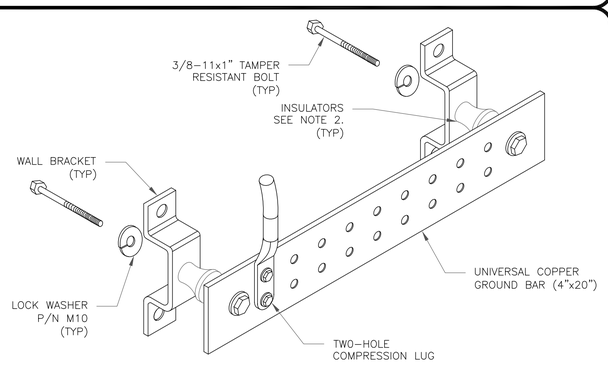
NOTES:

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

4 GROUND CABLE CONNECTION
SCALE: NOT TO SCALE



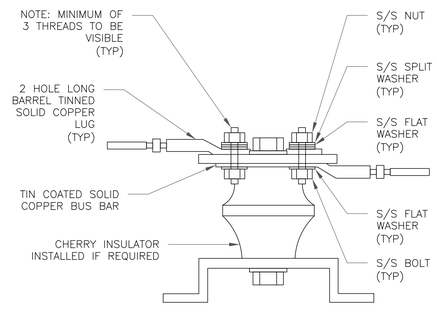
5 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



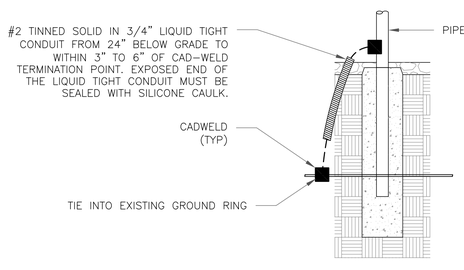
NOTES:

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

6 GROUND BAR DETAIL
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE



8 TRANSITIONING GROUND DETAIL
SCALE: NOT TO SCALE

verizon
180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

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

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0	7/6/22	DAS	CONSTRUCTION	MTJ

MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/23

SHEET NUMBER: G-2
REVISION: 0

Exhibit D

Structural Analysis Report

Date: **May 24, 2022**

B+T Group
1717 S, Boulder, Suite 300
Tulsa, OK 74119
(918) 587-4630

Subject:	**Structural Analysis Report**	
Carrier Designation:	***Verizon Wireless* Co-Locate**	
	Site Number:	119688
	Site Name:	Stafford CT
Crown Castle Designation:	**BU Number:**	806365
	Site Name:	HRT 303 943203
	JDE Job Number:	718594
	Work Order Number:	2118342
	Order Number:	618842 Rev. 0
Engineering Firm Designation:	**B+T Group Project Number:**	131593.005.01
Site Data:	**Brendon & Quinn Streets, Stafford, Tolland County, CT** **Latitude *41° 57' 51.2"*, Longitude *-72° 18' 17.8"*** **129 Foot - Monopole Tower**	

B+T Group is pleased to submit this **"Structural Analysis Report"** to determine the structural integrity of the above-mentioned tower.

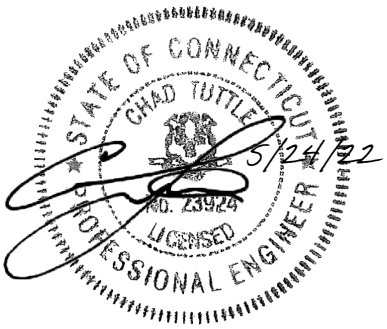
The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC5: Proposed Equipment Configuration **Sufficient Capacity – 97.8%**

This analysis utilizes an ultimate 3-second gust wind speed of 118 mph as required by the 2018 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Clint Coody

Respectfully submitted by: B+T Engineering, Inc.
COA: PEC.0001564; Expires: 10/02/2022



Chad E. Tuttle, P.E.

TABLE OF CONTENTS

1) INTRODUCTION

This tower is a 129 ft. Monopole tower designed by Valmont.

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

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	117.0	3	Andrew	LNX-8514DS-A1M	2 6	1-5/8 7/8
		3	Commscope	NHH-65B-R2B		
		3	Commscope	NHHSS-65B-R2BT4		
		3	Samsung Telecom	MT6407-77A		
	116.0	2	Raycap	RVZDC-6627-PF-48_CCIV2		
		3	Samsung Telecom	CBRS RT4401-48A		
		3	Samsung Telecom	RF4439D-25A		
		3	Samsung Telecom	RF4440D-13A		
		1	--	Platform Mount [LP 713-1]		
		3	Commscope	BSAMNT-SBS-1-2		

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)
125.0	125.0	1	--	Platform Mount [LP 701-1_HR-1]	7 3	1-5/8 1/4
	124.0	4	Ericsson	AIR6449 B41_T-MOBILE		
		4	Ericsson	Radio 4449 B71 B85A_T-Mobile		
		4	Ericsson	Radio 4460 B2/B25 B66_TMO		
		4	Rfs Celwave	APXVAARR24_43-U-NA20		
	123.0	1	Fastback Networks	IBR 1300_CCIV2		
105.0	105.0	3	Alcatel Lucent	PCS 1900MHZ 4X45W-65MHZ	3 1	1-1/4 7/8
		6	Alcatel Lucent	RRH2X50-800		
		3	Commscope	NNVV-65B-R4		
		3	Nokia	FZHN		
		3	Rfs Celwave	APXVTM14-ALU-I20		
		1	--	Platform Mount [LP 1201-1_HR-1]		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
94.0	95.0	3	CCI Antennas	HPA65R-BU8A	12 4 2	1-1/4 3/4 3/8
		3	Ericsson	RRUS 4449 B5/B12		
		5	Ericsson	RRUS 8843 B2/B66A		
		3	Kathrein	80010966		
		3	Powerwave Tech	7770.00		
		3	Powerwave Tech	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
Tower Manufacturer Drawing	2046046	CCI Sites
Tower Modification Drawing	5577072	CCI Sites
Post Modification Inspection	5734218	CCI Sites
Tower Modification Drawing	5664687	CCI Sites
Post Modification Inspection	6133277	CCI Sites
Tower Modification Drawing	7700293	CCI Sites
Post Modification Inspection	8353227	CCI Sites
Foundation Drawing	2294383	CCI Sites
Geotech Report	262167	CCI Sites
Crown CAD Package	Date: 05/19/2022	CCI Sites

3.1) Analysis Method

tnxTower (version 8.1.1.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 standard.

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 presented in Appendix C.

3.2) Assumptions

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

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

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L1	129 - 124	Pole	TP16x16x0.375	1	-14.830	--	5.8	Pass
L2	124 - 119	Pole	TP16x16x0.375	2	-6.770	--	18.9	Pass
L3	119 - 115.5	Pole	TP16x16x0.375	3	-10.784	--	33.5	Pass
L4	115.5 - 115	Pole	TP17.81x16x0.375	4	-10.790	--	29.4	Pass
L5	115 - 110	Pole	TP18.943x17.81x0.219	5	-12.783	--	45.1	Pass
L6	110 - 105	Pole	TP20.076x18.943x0.219	6	-13.722	--	61.5	Pass
L7	105 - 100	Pole	TP21.209x20.076x0.219	7	-18.950	--	80.7	Pass
L8	100 - 95	Pole	TP22.343x21.209x0.219	8	-19.586	--	96.4	Pass
L9	95 - 94.5	Pole	TP22.456x22.343x0.219	9	-19.663	--	97.8	Pass
L10	94.5 - 94.25	Pole + Reinf.	TP22.513x22.456x0.438	10	-19.713	--	79.9	Pass
L11	94.25 - 92.08	Pole + Reinf.	TP23.004x22.513x0.431	11	-24.293	--	87.4	Pass
L12	92.08 - 91.83	Pole + Reinf.	TP23.06x23.004x0.656	12	-24.368	--	59.6	Pass
L13	91.83 - 86.83	Pole + Reinf.	TP24.193x23.06x0.631	13	-25.548	--	70.2	Pass
L14	86.83 - 81.83	Pole + Reinf.	TP25.326x24.193x0.606	14	-26.774	--	79.7	Pass
L15	81.83 - 77.79	Pole + Reinf.	TP27.3x25.326x0.594	15	-27.792	--	86.7	Pass
L16	77.79 - 72.79	Pole + Reinf.	TP26.963x25.805x0.688	16	-30.039	--	83.1	Pass
L17	72.79 - 71.5	Pole + Reinf.	TP27.262x26.963x0.675	17	-30.399	--	84.7	Pass
L18	71.5 - 71.25	Pole + Reinf.	TP27.32x27.262x0.738	18	-30.492	--	78.0	Pass
L19	71.25 - 68.33	Pole + Reinf.	TP27.996x27.32x0.725	19	-31.375	--	81.2	Pass
L20	68.33 - 68.08	Pole + Reinf.	TP28.054x27.996x0.738	20	-31.479	--	81.4	Pass
L21	68.08 - 67.92	Pole + Reinf.	TP28.092x28.054x0.738	21	-31.538	--	81.5	Pass
L22	67.92 - 67.67	Pole + Reinf.	TP28.15x28.092x1.088	22	-31.638	--	57.1	Pass
L23	67.67 - 67.5	Pole + Reinf.	TP28.189x28.15x1.088	23	-31.706	--	57.2	Pass
L24	67.5 - 67.25	Pole + Reinf.	TP28.247x28.189x0.888	24	-31.793	--	62.7	Pass
L25	67.25 - 66.33	Pole + Reinf.	TP28.459x28.247x0.875	25	-32.108	--	63.4	Pass
L26	66.33 - 66.08	Pole + Reinf.	TP28.517x28.459x1.038	26	-32.227	--	59.3	Pass
L27	66.08 - 61.08	Pole + Reinf.	TP29.675x28.517x0.988	27	-34.401	--	63.1	Pass
L28	61.08 - 56.5	Pole + Reinf.	TP30.737x29.675x0.963	28	-36.495	--	66.3	Pass
L29	56.5 - 56.25	Pole + Reinf.	TP30.795x30.737x0.963	29	-36.618	--	66.5	Pass
L30	56.25 - 51.25	Pole + Reinf.	TP31.953x30.795x0.938	30	-38.855	--	69.7	Pass
L31	51.25 - 46.25	Pole + Reinf.	TP33.111x31.953x0.913	31	-41.133	--	72.7	Pass
L32	46.25 - 42	Pole + Reinf.	TP35.36x33.111x0.888	32	-43.096	--	75.0	Pass
L33	42 - 35.54	Pole + Reinf.	TP34.967x33.471x0.813	33	-47.956	--	79.9	Pass
L34	35.54 - 31.25	Pole + Reinf.	TP35.961x34.967x0.8	34	-49.809	--	81.6	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L35	31.25 - 31	Pole + Reinf.	TP36.019x35.961x0.863	35	-49.941	--	76.8	Pass
L36	31 - 26	Pole + Reinf.	TP37.177x36.019x0.85	36	-52.323	--	78.6	Pass
L37	26 - 22	Pole + Reinf.	TP38.104x37.177x0.825	37	-54.265	--	80.0	Pass
L38	22 - 21.75	Pole + Reinf.	TP38.162x38.104x0.938	38	-54.406	--	75.7	Pass
L39	21.75 - 19.08	Pole + Reinf.	TP38.779x38.162x0.925	39	-55.780	--	76.6	Pass
L40	19.08 - 18.83	Pole + Reinf.	TP38.837x38.779x0.875	40	-55.917	--	77.0	Pass
L41	18.83 - 18	Pole + Reinf.	TP39.03x38.837x0.875	41	-56.320	--	77.3	Pass
L42	18 - 17.75	Pole + Reinf.	TP39.088x39.03x1	42	-56.469	--	68.6	Pass
L43	17.75 - 17	Pole + Reinf.	TP39.262x39.088x1	43	-56.886	--	68.8	Pass
L44	17 - 16.75	Pole + Reinf.	TP39.32x39.262x1	44	-57.033	--	68.9	Pass
L45	16.75 - 11.75	Pole + Reinf.	TP40.478x39.32x0.975	45	-59.848	--	70.3	Pass
L46	11.75 - 6.75	Pole + Reinf.	TP41.636x40.478x0.95	46	-62.150	--	71.5	Pass
L47	6.75 - 4	Pole + Reinf.	TP42.273x41.636x0.95	47	-62.731	--	72.2	Pass
L48	4 - 3.75	Pole + Reinf.	TP42.331x42.273x0.975	48	-64.306	--	69.9	Pass
L49	3.75 - 3	Pole + Reinf.	TP42.505x42.331x0.963	49	-64.455	--	70.1	Pass
L50	3 - 2.75	Pole + Reinf.	TP42.563x42.505x1.075	50	-64.879	--	60.1	Pass
L51	2.75 - 0	Pole + Reinf.	TP43.2x42.563x1.075	51	-65.038	--	60.7	Pass
							Summary	
						Pole	97.8	Pass
						Reinforcement	87.4	Pass
						Overall	97.8	Pass

Table 5 - Tower Component Stresses vs. Capacity – LC5

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1,2	HSS	115	74.2	Pass
1,2	Anchor Rod Bracket	Base	77.2	Pass
1,2	Anchor Rods	Base	82.7	Pass
1,2	Base Plate	Base	50.1	Pass
1,2	Base Foundation (Structure)	Base	83.1	Pass
1,2	Base Foundation (Soil Interaction)	Base	30.9	Pass

Structure Rating (max from all components) =	**97.8%**

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

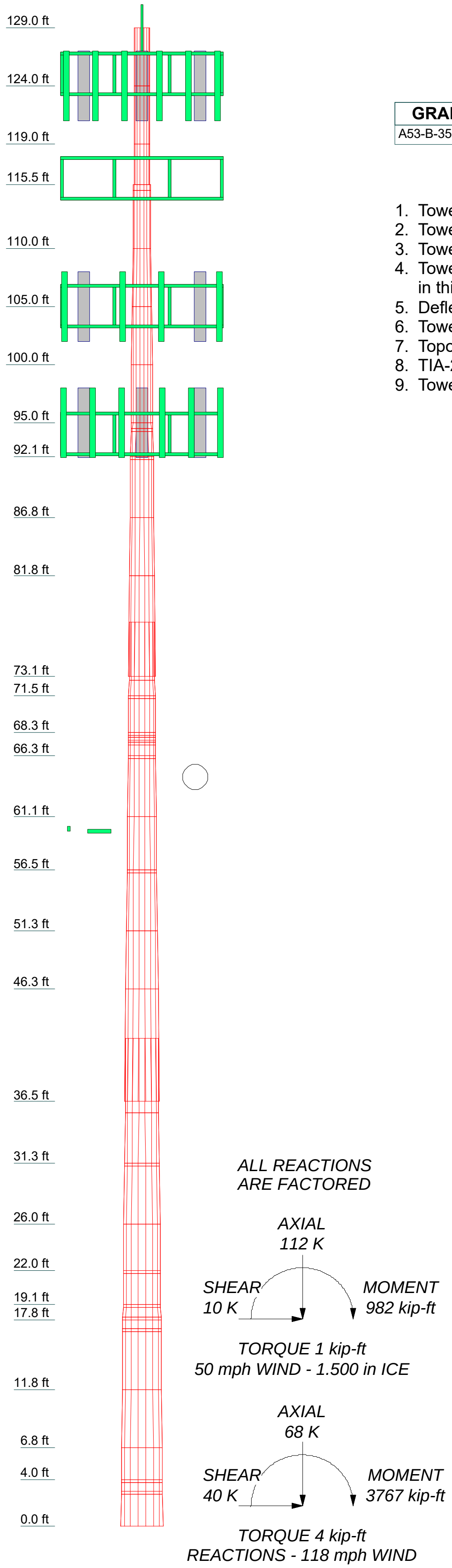
4.1) Recommendations

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

APPENDIX A

TNXTOWER OUTPUT

Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (K)
1	5.000	0	0.375		16.000	16.000	A53-B-35	0.3
2	5.000	0	0.375		16.000	16.000		0.3
3	3.500	0	0.375		16.000	16.000		0.2
4	0.500	0	0.375		17.816	17.816		0.0
5	5.000	12	0.219		17.810	18.943		0.2
6	5.000	12	0.219		18.943	20.076		0.2
7	5.000	12	0.219		20.076	21.209		0.2
8	5.000	12	0.219		21.209	22.343		0.3
9–12	[illegible]	12	[illegible]		[illegible]	[illegible]		[illegible]
13	5.000	12	0.631		23.060	24.193		0.7
14	5.000	12	0.606		24.193	25.326		0.7
15	8.708	12	0.594	4.667	25.326	27.300		1.3
16–26	[illegible]	12	[illegible]		[illegible]	[illegible]		[illegible]
27	5.000	12	0.988		28.512	29.675		1.6
28	4.583	12	0.963		29.675	30.737		1.4
29	0.250	12	0.963		30.737	30.795		0.1
30	5.000	12	0.938		30.795	31.953	A572-65	1.6
31	5.000	12	0.912		31.953	33.111		1.6
32	9.708	12	0.887	5.458	33.111	35.360		3.2
33	6.458	12	0.813		33.471	34.967		1.9
34	4.292	12	0.800		34.963	[illegible]		1.3
35	0.250	12	[illegible]		[illegible]	[illegible]		0.1
36	5.000	12	0.850		36.017	37.176		1.7
37	5.000	12	0.825		37.177	38.104		1.4
38–44	[illegible]	12	[illegible]		[illegible]	[illegible]		[illegible]
45	5.000	12	0.975		39.323	40.478		2.1
46	5.000	12	0.950		40.478	41.636		2.1
47–51	[illegible]	12	[illegible]		[illegible]	[illegible]		[illegible]
								32.1



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 0.000 ft
8. TIA-222-H Annex S
9. Tower Rating: 97.8%

B+T Group
1717 S, Boulder, Suite 300
Tulsa, OK 74119
Phone: (918) 587-4630
FAX: (918) 587-4630

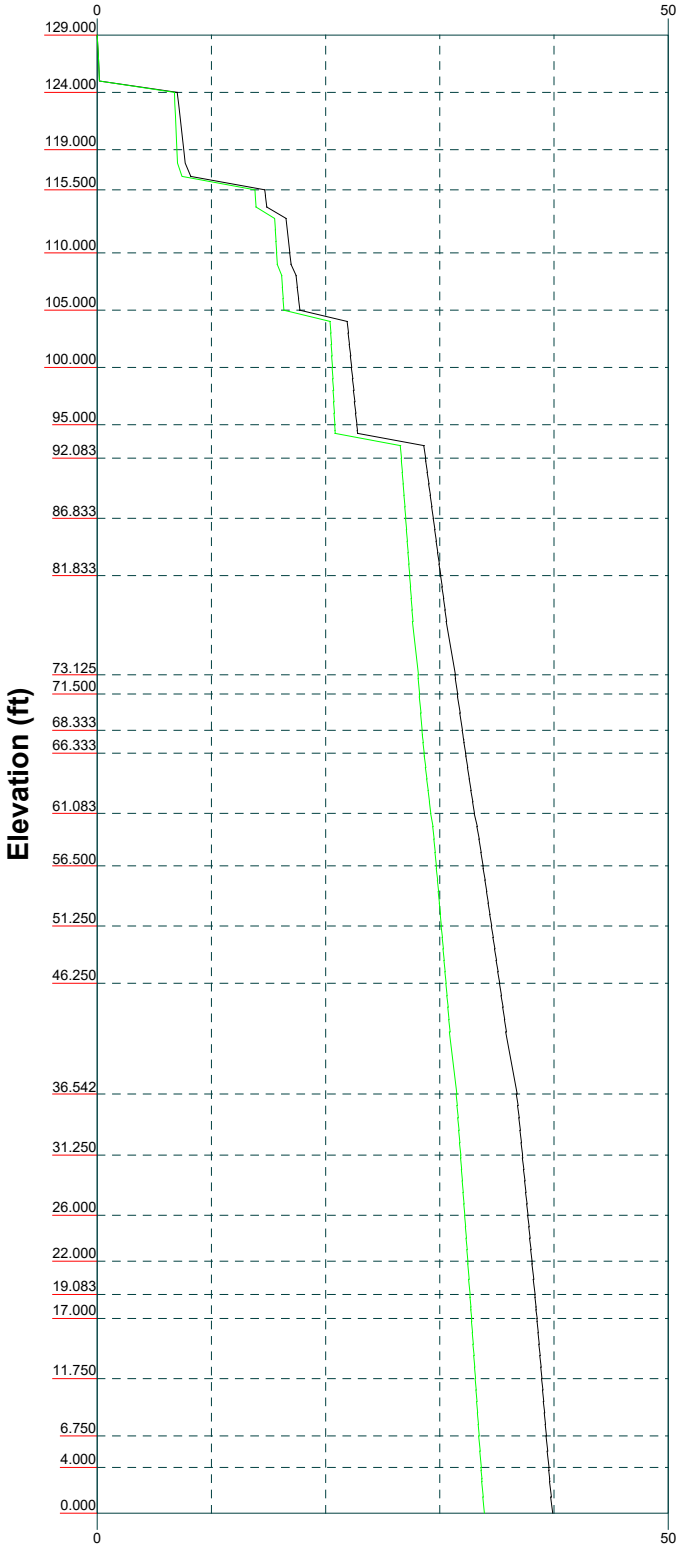
Job: 131593.005.01 - HRT 303 943203, CT (BU# 80636		
Project:		
Client: Crown Castle	Drawn by: Nithish Acharya	App'd:
Code: TIA-222-H	Date: 05/24/22	Scale: NTS
Path:		Dwg No. E-1

TIA-222-H - 118 mph/50 mph 1.500 in Ice Exposure C

Maximum Values

Vx Vz Mx Mz

Global Mast Shear (K)



Global Mast Moment (kip-ft)

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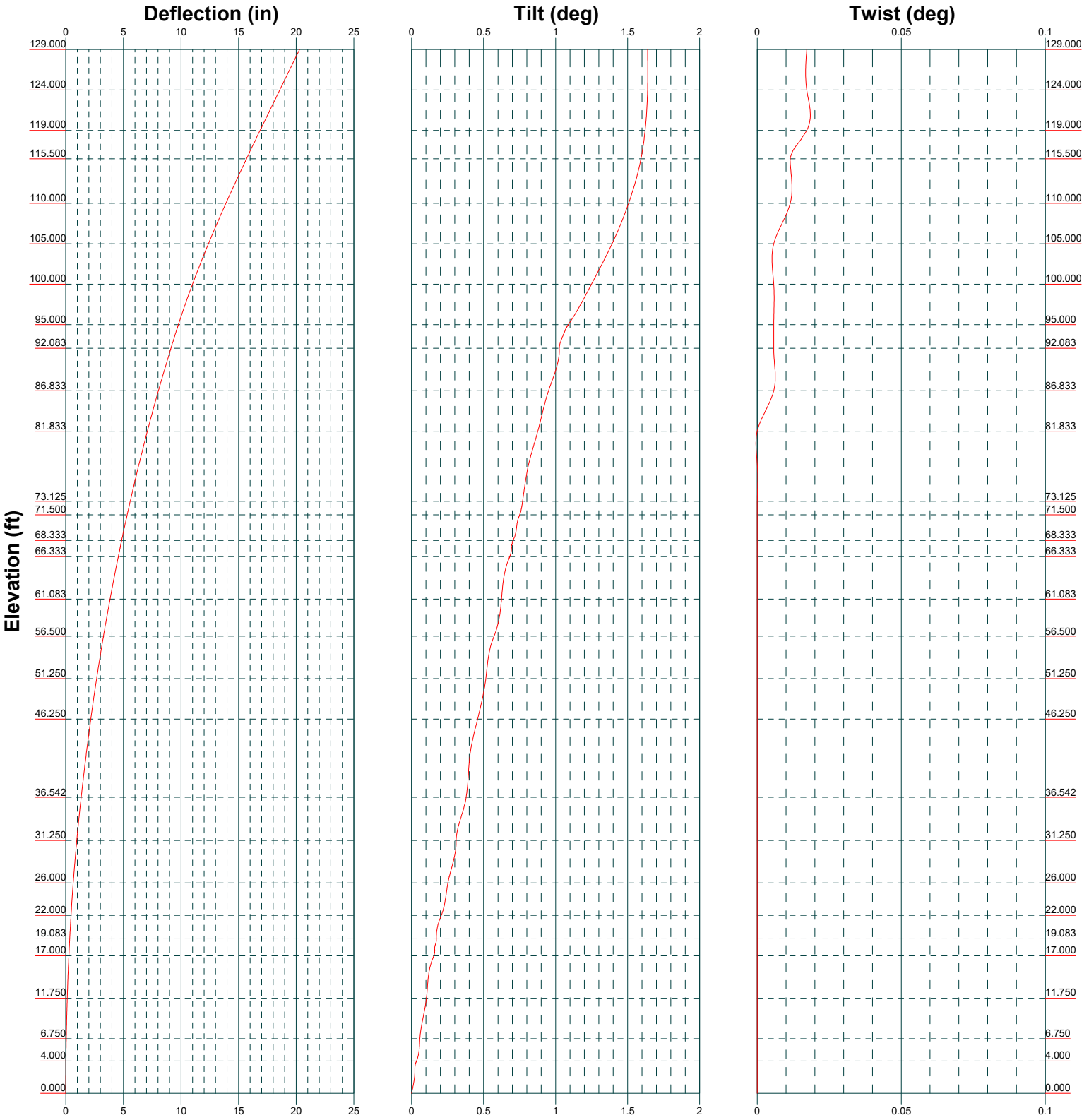
FAX: (918) 587-4630

Job: *131593.005.01 - HRT 303 943203, CT (BU# 806365*			
Project:			
Client: Crown Castle	Drawn by: Nithish Acharya	App'd:	
Code: TIA-222-H	Date: 05/24/22	Scale: NTS	
Path:		Dwg No. E-4	

TIA-222-H - Service - 60 mph

Maximum Values



B+T GRP

B+T Group
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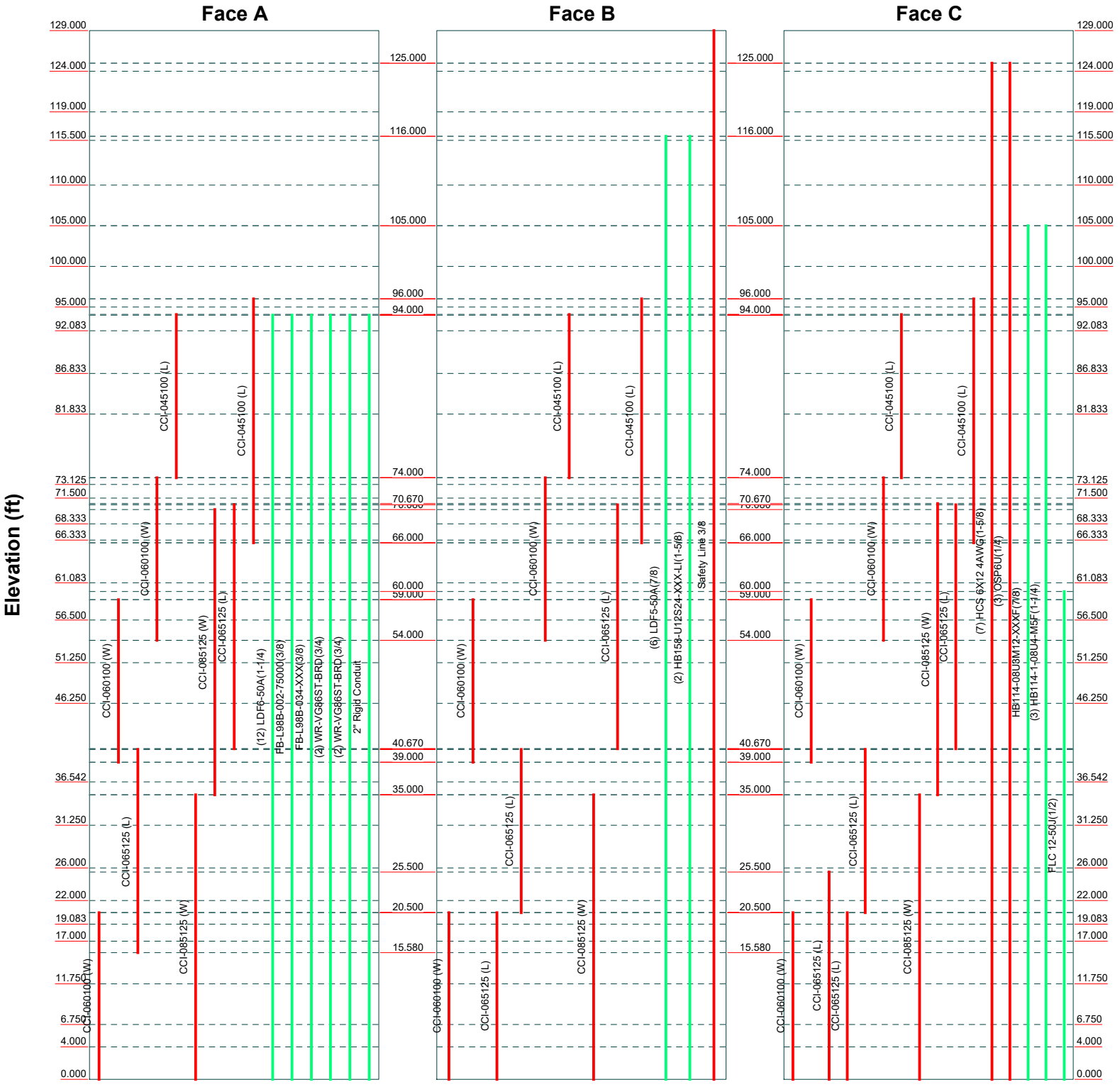
Phone: (918) 587-4630
FAX: (918) 587-4630

Job: *131593.005.01 - HRT 303 943203, CT (BU# 806365*			
Project:			
Client: Crown Castle	Drawn by: Nithish Acharya	App'd:	
Code: TIA-222-H	Date: 05/24/22	Scale: NTS	
Path:		Dwg No. E-5	

Feed Line Distribution Chart
0' - 129'

Round | Flat | App In Face | App Out Face | Truss Leg



B+T Group
1717 S, Boulder, Suite 300
Tulsa, OK 74119
Phone: (918) 587-4630
FAX: (918) 587-4630

Job:	***131593.005.01 - HRT 303 943203, CT (BU# 806365***		
Project:			
Client: Crown Castle	Drawn by: Nithish Acharya	App'd:	
Code: TIA-222-H	Date: 05/24/22	Scale: NTS	
Path:		Dwg No. E-7	

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: 754.000 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: 0.000 ft.
Nominal ice thickness of 1.500 in.
Ice thickness is considered to increase with height.
Ice density of 56.000 pcf.
A wind speed of 50 mph is used in combination with ice.
Temperature drop of 50.000 °F.
Deflections calculated using a wind speed of 60 mph.
TIA-222-H Annex S.
Tower Rating: 97.8%.
A non-linear (P-delta) analysis was used.
Pressures are calculated at each section.
Stress ratio used in pole design is 1.
Tower analysis based on target reliabilities in accordance with Annex S.
Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
Maximum demand-capacity ratio is: 1.05.
Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

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

Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	129.000-124.000	5.000	0.000	Round	16.000	16.000	0.375		A53-B-35 (35 ksi)
L2	124.000-119.000	5.000	0.000	Round	16.000	16.000	0.375		A53-B-35 (35 ksi)
L3	119.000-115.500	3.500	0.000	Round	16.000	16.000	0.375		A53-B-35 (35 ksi)
L4	115.500-115.000	0.500	0.000	Round	17.810	17.810	0.375		A53-B-35 (35 ksi)
L5	115.000-110.000	5.000	0.000	12	17.810	18.943	0.219	0.875	A572-65 (65 ksi)
L6	110.000-105.000	5.000	0.000	12	18.943	20.076	0.219	0.875	A572-65 (65 ksi)
L7	105.000-100.000	5.000	0.000	12	20.076	21.209	0.219	0.875	A572-65 (65 ksi)
L8	100.000-95.000	5.000	0.000	12	21.209	22.343	0.219	0.875	A572-65 (65 ksi)
L9	95.000-94.500	0.500	0.000	12	22.343	22.456	0.219	0.875	A572-65 (65 ksi)
L10	94.500-94.250	0.250	0.000	12	22.456	22.513	0.438	1.750	A572-65 (65 ksi)
L11	94.250-92.083	2.167	0.000	12	22.513	23.004	0.431	1.725	A572-65 (65 ksi)
L12	92.083-91.833	0.250	0.000	12	23.004	23.060	0.656	2.625	A572-65 (65 ksi)
L13	91.833-86.833	5.000	0.000	12	23.060	24.193	0.631	2.525	A572-65 (65 ksi)
L14	86.833-81.833	5.000	0.000	12	24.193	25.326	0.606	2.425	A572-65 (65 ksi)
L15	81.833-73.125	8.708	4.667	12	25.326	27.300	0.594	2.375	A572-65 (65 ksi)
L16	73.125-72.792	5.000	0.000	12	25.805	26.963	0.688	2.750	A572-65 (65 ksi)
L17	72.792-71.500	1.292	0.000	12	26.963	27.262	0.675	2.700	A572-65 (65 ksi)
L18	71.500-71.250	0.250	0.000	12	27.262	27.320	0.738	2.950	A572-65 (65 ksi)
L19	71.250-68.333	2.917	0.000	12	27.320	27.996	0.725	2.900	A572-65 (65 ksi)
L20	68.333-68.083	0.250	0.000	12	27.996	28.054	0.738	2.950	A572-65 (65 ksi)
L21	68.083-67.917	0.167	0.000	12	28.054	28.092	0.738	2.950	A572-65 (65 ksi)
L22	67.917-67.667	0.250	0.000	12	28.092	28.150	1.087	4.350	A572-65 (65 ksi)
L23	67.667-67.500	0.167	0.000	12	28.150	28.189	1.087	4.350	A572-65 (65 ksi)
L24	67.500-67.250	0.250	0.000	12	28.189	28.247	0.887	3.550	A572-65 (65 ksi)
L25	67.250-66.333	0.917	0.000	12	28.247	28.459	0.875	3.500	A572-65 (65 ksi)
L26	66.333-66.083	0.250	0.000	12	28.459	28.517	1.038	4.150	A572-65 (65 ksi)
L27	66.083-61.083	5.000	0.000	12	28.517	29.675	0.988	3.950	A572-65 (65 ksi)
L28	61.083-56.500	4.583	0.000	12	29.675	30.737	0.963	3.850	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
L29	56.500-56.250	0.250	0.000	12	30.737	30.795	0.963	3.850	A572-65 (65 ksi)
L30	56.250-51.250	5.000	0.000	12	30.795	31.953	0.938	3.750	A572-65 (65 ksi)
L31	51.250-46.250	5.000	0.000	12	31.953	33.111	0.912	3.650	A572-65 (65 ksi)
L32	46.250-36.542	9.708	5.458	12	33.111	35.360	0.887	3.550	A572-65 (65 ksi)
L33	36.542-35.542	6.458	0.000	12	33.471	34.967	0.813	3.250	A572-65 (65 ksi)
L34	35.542-31.250	4.292	0.000	12	34.967	35.961	0.800	3.200	A572-65 (65 ksi)
L35	31.250-31.000	0.250	0.000	12	35.961	36.019	0.863	3.450	A572-65 (65 ksi)
L36	31.000-26.000	5.000	0.000	12	36.019	37.177	0.850	3.400	A572-65 (65 ksi)
L37	26.000-22.000	4.000	0.000	12	37.177	38.104	0.825	3.300	A572-65 (65 ksi)
L38	22.000-21.750	0.250	0.000	12	38.104	38.162	0.938	3.750	A572-65 (65 ksi)
L39	21.750-19.083	2.667	0.000	12	38.162	38.779	0.925	3.700	A572-65 (65 ksi)
L40	19.083-18.833	0.250	0.000	12	38.779	38.837	0.875	3.500	A572-65 (65 ksi)
L41	18.833-18.000	0.833	0.000	12	38.837	39.030	0.875	3.500	A572-65 (65 ksi)
L42	18.000-17.750	0.250	0.000	12	39.030	39.088	1.000	4.000	A572-65 (65 ksi)
L43	17.750-17.000	0.750	0.000	12	39.088	39.262	1.000	4.000	A572-65 (65 ksi)
L44	17.000-16.750	0.250	0.000	12	39.262	39.320	1.000	4.000	A572-65 (65 ksi)
L45	16.750-11.750	5.000	0.000	12	39.320	40.478	0.975	3.900	A572-65 (65 ksi)
L46	11.750-6.750	5.000	0.000	12	40.478	41.636	0.950	3.800	A572-65 (65 ksi)
L47	6.750-4.000	2.750	0.000	12	41.636	42.273	0.950	3.800	A572-65 (65 ksi)
L48	4.000-3.750	0.250	0.000	12	42.273	42.331	0.975	3.900	A572-65 (65 ksi)
L49	3.750-3.000	0.750	0.000	12	42.331	42.505	0.963	3.850	A572-65 (65 ksi)
L50	3.000-2.750	0.250	0.000	12	42.505	42.563	1.075	4.300	A572-65 (65 ksi)
L51	2.750-0.000	2.750		12	42.563	43.200	1.075	4.300	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	16.000	18.408	562.084	5.526	8.000	70.261	1124.168	9.198	0.000	0
	16.000	18.408	562.084	5.526	8.000	70.261	1124.168	9.198	0.000	0
L2	16.000	18.408	562.084	5.526	8.000	70.261	1124.168	9.198	0.000	0
	16.000	18.408	562.084	5.526	8.000	70.261	1124.168	9.198	0.000	0
L3	16.000	18.408	562.084	5.526	8.000	70.261	1124.168	9.198	0.000	0

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
	16.000	18.408	562.084	5.526	8.000	70.261	1124.168	9.198	0.000	0
L4	17.810	20.540	780.832	6.166	8.905	87.685	1561.665	10.264	0.000	0
	17.810	20.540	780.832	6.166	8.905	87.685	1561.665	10.264	0.000	0
L5	18.361	12.391	489.418	6.298	9.226	53.050	991.694	6.098	4.187	19.14
	19.534	13.189	590.218	6.703	9.813	60.149	1195.942	6.491	4.491	20.528
L6	19.534	13.189	590.218	6.703	9.813	60.149	1195.942	6.491	4.491	20.528
	20.707	13.987	703.987	7.109	10.400	67.694	1426.469	6.884	4.794	21.916
L7	20.707	13.987	703.987	7.109	10.400	67.694	1426.469	6.884	4.794	21.916
	21.880	14.785	831.510	7.515	10.986	75.685	1684.866	7.277	5.098	23.305
L8	21.880	14.785	831.510	7.515	10.986	75.685	1684.866	7.277	5.098	23.305
	23.054	15.583	973.573	7.920	11.573	84.121	1972.722	7.670	5.402	24.693
L9	23.054	15.583	973.573	7.920	11.573	84.121	1972.722	7.670	5.402	24.693
	23.171	15.663	988.609	7.961	11.632	84.989	2003.189	7.709	5.432	24.832
L10	23.094	31.018	1919.439	7.883	11.632	165.012	3889.303	15.266	4.846	11.076
	23.152	31.098	1934.294	7.903	11.661	165.870	3919.404	15.306	4.861	11.111
L11	23.155	30.663	1908.281	7.905	11.661	163.640	3866.695	15.091	4.878	11.31
	23.663	31.344	2038.437	8.081	11.916	171.070	4130.427	15.427	5.009	11.616
L12	23.584	47.223	3010.130	8.000	11.916	252.616	6099.340	23.242	4.406	6.714
	23.642	47.342	3033.083	8.021	11.945	253.917	6145.848	23.300	4.421	6.737
L13	23.651	45.590	2927.315	8.030	11.945	245.062	5931.533	22.438	4.488	7.11
	24.824	47.893	3393.780	8.435	12.532	270.806	6876.719	23.571	4.792	7.591
L14	24.833	46.045	3269.759	8.444	12.532	260.910	6625.418	22.662	4.859	8.015
	26.006	48.257	3764.003	8.850	13.119	286.910	7626.890	23.751	5.163	8.516
L15	26.010	47.286	3691.989	8.854	13.119	281.421	7480.971	23.273	5.196	8.752
	28.054	51.059	4648.193	9.561	14.141	328.694	9418.500	25.130	5.725	9.642
L16	27.592	55.603	4477.495	8.992	13.367	334.969	9072.618	27.366	5.073	7.379
	27.672	58.167	5125.889	9.407	13.967	367.004	10386.441	28.628	5.384	7.831
L17	27.676	57.137	5039.877	9.411	13.967	360.846	10212.157	28.121	5.417	8.025
	27.986	57.788	5213.976	9.518	14.122	369.213	10564.928	28.441	5.497	8.144
L18	27.964	62.990	5656.671	9.496	14.122	400.561	11461.948	31.002	5.330	7.227
	28.024	63.127	5693.801	9.517	14.152	402.335	11537.185	31.069	5.345	7.248
L19	28.028	62.087	5605.196	9.521	14.152	396.074	11357.646	30.557	5.379	7.419
	28.728	63.664	6043.318	9.763	14.502	416.728	12245.401	31.333	5.560	7.669
L20	28.723	64.732	6139.064	9.758	14.502	423.330	12439.408	31.859	5.526	7.493
	28.783	64.869	6178.274	9.779	14.532	425.154	12518.859	31.927	5.542	7.514
L21	28.783	64.869	6178.274	9.779	14.532	425.154	12518.859	31.927	5.542	7.514
	28.823	64.961	6204.507	9.793	14.552	426.373	12572.013	31.972	5.552	7.528
L22	28.700	94.564	8802.313	9.668	14.552	604.893	17835.873	46.542	4.614	4.243
	28.760	94.767	8859.063	9.688	14.582	607.541	17950.863	46.641	4.630	4.257
L23	28.760	94.767	8859.063	9.688	14.582	607.541	17950.863	46.641	4.630	4.257
	28.800	94.902	8897.031	9.702	14.602	609.309	18027.797	46.708	4.640	4.267
L24	28.870	78.021	7422.732	9.774	14.602	508.342	15040.467	38.399	5.176	5.832
	28.930	78.186	7470.066	9.795	14.632	510.535	15136.379	38.481	5.192	5.85
L25	28.935	77.120	7374.953	9.799	14.632	504.035	14943.655	37.956	5.225	5.972
	29.154	77.718	7547.922	9.875	14.742	512.007	15294.137	38.251	5.282	6.037
L26	29.097	91.609	8792.439	9.817	14.742	596.428	17815.866	45.087	4.847	4.671
	29.157	91.802	8848.262	9.838	14.772	598.996	17928.977	45.182	4.862	4.686
L27	29.175	87.537	8467.895	9.856	14.772	573.246	17158.251	43.083	4.996	5.059
	30.374	91.220	9582.255	10.270	15.372	623.367	19416.246	44.896	5.306	5.374
L28	30.383	88.988	9364.105	10.279	15.372	609.175	18974.214	43.797	5.373	5.583
	31.482	92.278	10441.731	10.659	15.922	655.817	21157.778	45.417	5.658	5.878
L29	31.482	92.278	10441.731	10.659	15.922	655.817	21157.778	45.417	5.658	5.878
	31.542	92.458	10502.776	10.680	15.952	658.410	21281.472	45.505	5.674	5.895
L30	31.550	90.132	10255.717	10.689	15.952	642.922	20780.863	44.360	5.741	6.123
	32.749	93.628	11496.108	11.104	16.552	694.559	23294.231	46.081	6.051	6.454
L31	32.758	91.205	11216.625	11.113	16.552	677.673	22727.923	44.888	6.118	6.705
	33.957	94.608	12519.619	11.527	17.152	729.938	25368.142	46.563	6.428	7.045
L32	33.966	92.087	12205.001	11.536	17.152	711.595	24730.640	45.323	6.495	7.319
	36.294	98.514	14942.681	12.341	18.316	815.805	30277.923	48.485	7.098	7.998
L33	35.674	85.442	11631.673	11.692	17.338	670.884	23568.923	42.052	6.793	8.36
	35.914	89.356	13304.470	12.227	18.113	734.536	26958.464	43.978	7.194	8.854
L34	35.918	88.013	13114.175	12.232	18.113	724.030	26572.873	43.318	7.227	9.034

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
	36.947	90.575	14292.669	12.588	18.628	767.278	28960.822	44.578	7.494	9.367
L35	36.925	97.477	15327.258	12.565	18.628	822.818	31057.179	47.975	7.326	8.494
	36.985	97.638	15403.253	12.586	18.658	825.568	31211.166	48.054	7.342	8.512
L36	36.990	96.257	15196.215	12.590	18.658	814.471	30791.651	47.375	7.375	8.677
	38.189	99.427	16747.619	13.005	19.258	869.657	33935.217	48.935	7.685	9.042
L37	38.198	96.569	16288.625	13.014	19.258	845.822	33005.171	47.529	7.752	9.397
	39.157	99.031	17566.214	13.346	19.738	889.982	35593.912	48.740	8.001	9.698
L38	39.117	112.195	19781.431	13.306	19.738	1002.215	40082.541	55.219	7.699	8.213
	39.177	112.370	19874.045	13.326	19.768	1005.379	40270.204	55.305	7.715	8.229
L39	39.182	110.909	19628.819	13.331	19.768	992.973	39773.309	54.586	7.748	8.377
	39.821	112.749	20622.005	13.552	20.088	1026.598	41785.774	55.492	7.914	8.556
L40	39.839	106.796	19584.703	13.570	20.088	974.960	39683.918	52.561	8.048	9.198
	39.899	106.959	19674.608	13.590	20.118	977.975	39866.091	52.642	8.063	9.215
L41	39.899	106.959	19674.608	13.590	20.118	977.975	39866.091	52.642	8.063	9.215
	40.098	107.503	19976.279	13.660	20.218	988.059	40477.356	52.909	8.115	9.274
L42	40.054	122.458	22606.388	13.615	20.218	1118.149	45806.670	60.270	7.780	7.78
	40.114	122.644	22709.820	13.636	20.248	1121.600	46016.252	60.362	7.796	7.796
L43	40.114	122.644	22709.820	13.636	20.248	1121.600	46016.252	60.362	7.796	7.796
	40.294	123.203	23022.009	13.698	20.338	1131.987	46648.831	60.637	7.842	7.842
L44	40.294	123.203	23022.009	13.698	20.338	1131.987	46648.831	60.637	7.842	7.842
	40.354	123.390	23126.704	13.719	20.368	1135.460	46860.972	60.729	7.858	7.858
L45	40.363	120.384	22592.697	13.727	20.368	1109.242	45778.930	59.249	7.925	8.128
	41.562	124.020	24702.474	14.142	20.968	1178.122	50053.909	61.039	8.235	8.446
L46	41.571	120.917	24114.803	14.151	20.968	1150.095	48863.129	59.511	8.302	8.739
	42.770	124.460	26297.354	14.566	21.568	1219.297	53285.569	61.255	8.613	9.066
L47	42.770	124.460	26297.354	14.566	21.568	1219.297	53285.569	61.255	8.613	9.066
	43.430	126.408	27552.029	14.794	21.898	1258.220	55827.881	62.214	8.783	9.246
L48	43.421	129.656	28225.792	14.785	21.898	1288.989	57193.107	63.813	8.716	8.94
	43.481	129.838	28344.701	14.806	21.928	1292.648	57434.049	63.902	8.732	8.956
L49	43.485	128.212	28006.687	14.810	21.928	1277.233	56749.141	63.102	8.765	9.107
	43.665	128.751	28361.032	14.872	22.018	1288.106	57467.140	63.367	8.812	9.155
L50	43.625	143.410	31419.312	14.832	22.018	1427.008	63664.045	70.582	8.510	7.917
	43.685	143.611	31551.254	14.853	22.048	1431.051	63931.394	70.681	8.526	7.931
L51	43.685	143.611	31551.254	14.853	22.048	1431.051	63931.394	70.681	8.526	7.931
	44.345	145.816	33027.069	15.081	22.378	1475.899	66921.795	71.766	8.697	8.09

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L1 129.000-124.000				1	1	1			
L2 124.000-119.000				1	1	1			
L3 119.000-115.500				1	1	1			
L4 115.500-115.000				1	1	1			
L5 115.000-110.000				1	1	1			
L6 110.000-105.000				1	1	1			
L7 105.000-100.0				1	1	1			

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
00									
L8				1	1	1			
100.000-95.000									
L9				1	1	1			
95.000-94.500									
L10				1	1	0.939686			
94.500-94.250									
L11				1	1	0.943338			
94.250-92.083									
L12				1	1	0.910974			
92.083-91.833									
L13				1	1	0.917168			
91.833-86.833									
L14				1	1	0.926788			
86.833-81.833									
L15				1	1	0.925203			
81.833-73.125									
L16				1	1	0.925875			
73.125-72.792									
L17				1	1	0.937174			
72.792-71.500									
L18				1	1	0.93021			
71.500-71.250									
L19				1	1	0.93305			
71.250-68.333									
L20				1	1	1.04204			
68.333-68.083									
L21				1	1	1.04117			
68.083-67.917									
L22				1	1	0.886034			
67.917-67.667									
L23				1	1	0.885181			
67.667-67.500									
L24				1	1	0.902267			
67.500-67.250									
L25				1	1	0.910446			
67.250-66.333									
L26				1	1	1.00321			
66.333-66.083									
L27				1	1	1.02239			
66.083-61.083									
L28				1	1	1.02224			
61.083-56.500									
L29				1	1	1.02089			
56.500-56.250									
L30				1	1	1.02057			
56.250-51.250									
L31				1	1	1.02232			
51.250-46.250									
L32				1	1	1.02961			
46.250-36.542									
L33				1	1	0.978781			
36.542-35.542									
L34				1	1	0.978867			
35.542-31.250									
L35				1	1	1.01775			
31.250-31.000									
L36				1	1	1.0135			

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
31.000-26.000									
L37				1	1	1.02885			
26.000-22.000									
L38				1	1	0.979748			
22.000-21.750									
L39				1	1	0.983072			
21.750-19.083									
L40				1	1	0.960874			
19.083-18.833									
L41				1	1	0.958181			
18.833-18.000									
L42				1	1	0.987432			
18.000-17.750									
L43				1	1	0.984651			
17.750-17.000									
L44				1	1	0.98373			
17.000-16.750									
L45				1	1	0.990009			
16.750-11.750									
L46				1	1	0.99775			
11.750-6.750									
L47				1	1	0.988454			
6.750-4.000									
L48				1	1	0.948419			
4.000-3.750									
L49				1	1	0.958059			
3.750-3.000									
L50				1	1	0.890792			
3.000-2.750									
L51				1	1	0.882596			
2.750-0.000									

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight klf
******GEN 1********										
CCI-060100 (W)	A	No	Surface Af (CaAa)	20.500 - 0.000	1	1	-0.150 -0.100	6.000	14.000	0.000
CCI-060100 (W)	B	No	Surface Af (CaAa)	20.500 - 0.000	1	1	-0.150 -0.100	6.000	14.000	0.000
CCI-060100 (W)	C	No	Surface Af (CaAa)	20.500 - 0.000	1	1	-0.150 -0.100	6.000	14.000	0.000
CCI-060100 (W)	A	No	Surface Af (CaAa)	59.000 - 39.000	1	1	-0.150 -0.100	6.000	14.000	0.000
CCI-060100 (W)	B	No	Surface Af (CaAa)	59.000 - 39.000	1	1	-0.150 -0.100	6.000	14.000	0.000
CCI-060100 (W)	C	No	Surface Af (CaAa)	59.000 - 39.000	1	1	-0.150 -0.100	6.000	14.000	0.000
******GEN 2********										
CCI-065125 (L)	B	No	Surface Af (CaAa)	20.500 - 0.000	1	1	-0.400 -0.350	6.500	15.500	0.000
CCI-065125 (L)	C	No	Surface Af	25.500 -	1	1	0.350	6.500	15.500	0.000

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight klf
			(CaAa)	0.000			0.400			
CCI-065125 (L)	C	No	Surface Af	20.500 -	1	1	-0.400	6.500	15.500	0.000
			(CaAa)	0.000			-0.350			
CCI-065125 (L)	B	No	Surface Af	40.580 -	1	1	-0.400	6.500	15.500	0.000
			(CaAa)	20.500			-0.350			
CCI-065125 (L)	A	No	Surface Af	40.580 -	1	1	0.350	6.500	15.500	0.000
			(CaAa)	15.580			0.400			
CCI-065125 (L)	C	No	Surface Af	40.580 -	1	1	-0.400	6.500	15.500	0.000
			(CaAa)	20.500			-0.350			
CCI-060100 (W)	A	No	Surface Af	74.000 -	1	1	0.350	6.000	14.000	0.000
			(CaAa)	54.000			0.400			
CCI-060100 (W)	B	No	Surface Af	74.000 -	1	1	0.350	6.000	14.000	0.000
			(CaAa)	54.000			0.400			
CCI-060100 (W)	C	No	Surface Af	74.000 -	1	1	0.350	6.000	14.000	0.000
			(CaAa)	54.000			0.400			
CCI-045100 (L)	A	No	Surface Af	94.080 -	1	1	0.350	4.500	11.000	0.000
			(CaAa)	74.000			0.400			
CCI-045100 (L)	B	No	Surface Af	94.080 -	1	1	0.350	4.500	11.000	0.000
			(CaAa)	74.000			0.400			
CCI-045100 (L)	C	No	Surface Af	94.080 -	1	1	0.350	4.500	11.000	0.000
			(CaAa)	74.000			0.400			
******GEN 3********										
CCI-085125 (W)	A	No	Surface Af	35.000 -	1	1	0.200	8.500	19.500	0.000
			(CaAa)	0.000			0.250			
CCI-085125 (W)	B	No	Surface Af	35.000 -	1	1	0.350	8.500	19.500	0.000
			(CaAa)	0.000			0.400			
CCI-085125 (W)	C	No	Surface Af	35.000 -	1	1	0.200	8.500	19.500	0.000
			(CaAa)	0.000			0.250			
CCI-085125 (W)	A	No	Surface Af	70.080 -	1	1	0.200	8.500	19.500	0.000
			(CaAa)	35.000			0.250			
CCI-085125 (W)	C	No	Surface Af	70.800 -	1	1	0.200	8.500	19.500	0.000
			(CaAa)	35.000			0.250			
CCI-065125 (L)	A	No	Surface Af	70.670 -	1	1	-0.400	6.500	15.500	0.000
			(CaAa)	40.670			-0.350			
CCI-065125 (L)	B	No	Surface Af	70.670 -	1	1	-0.400	6.500	15.500	0.000
			(CaAa)	40.670			-0.350			
CCI-065125 (L)	C	No	Surface Af	70.670 -	1	1	-0.400	6.500	15.500	0.000
			(CaAa)	40.670			-0.350			
CCI-045100 (L)	A	No	Surface Af	96.000 -	1	1	-0.150	4.500	11.000	0.000
			(CaAa)	66.000			-0.100			
CCI-045100 (L)	B	No	Surface Af	96.000 -	1	1	-0.150	4.500	11.000	0.000
			(CaAa)	66.000			-0.100			
CCI-045100 (L)	C	No	Surface Af	96.000 -	1	1	-0.150	4.500	11.000	0.000
			(CaAa)	66.000			-0.100			
*										
HCS 6X12 4AWG(1-5/8)	C	No	Surface Ar	125.000 -	7	6	-0.250	1.660		0.002
			(CaAa)	0.000			0.000			
OSP6U(1/4)	C	No	Surface Ar	125.000 -	3	3	-0.100	0.251		0.000
			(CaAa)	0.000			0.000			
*										
Safety Line 3/8	B	No	Surface Ar	129.000 -	1	1	0.240	0.375		0.000
			(CaAa)	0.000			0.250			
*										

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 klf
*									
LDF5-50A(7/8)	B	No	No	Inside Pole	116.000 - 0.000	6	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
							2" Ice	0.000	0.000
HB158-U12S24-XXX-LI(1-5/8)	B	No	No	Inside Pole	116.000 - 0.000	2	No Ice	0.000	0.003
							1/2" Ice	0.000	0.003
							1" Ice	0.000	0.003
							2" Ice	0.000	0.003
*									
HB114-08U3M12-XXXF(7/8)	C	No	No	Inside Pole	105.000 - 0.000	1	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
							2" Ice	0.000	0.001
HB114-1-08U4-M5F(1-1/4)	C	No	No	Inside Pole	105.000 - 0.000	3	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
							2" Ice	0.000	0.001
*									
LDF6-50A(1-1/4)	A	No	No	Inside Pole	94.000 - 0.000	12	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
							2" Ice	0.000	0.001
FB-L98B-002-75000(3/8)	A	No	No	Inside Pole	94.000 - 0.000	1	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
							2" Ice	0.000	0.000
FB-L98B-034-XXX(3/8)	A	No	No	Inside Pole	94.000 - 0.000	1	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
							2" Ice	0.000	0.000
WR-VG86ST-BRD(3/4)	A	No	No	Inside Pole	94.000 - 0.000	2	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
							2" Ice	0.000	0.001
WR-VG86ST-BRD(3/4)	A	No	No	Inside Pole	94.000 - 0.000	2	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
							2" Ice	0.000	0.001
2" Rigid Conduit	A	No	No	Inside Pole	94.000 - 0.000	1	No Ice	0.000	0.003
							1/2" Ice	0.000	0.003
							1" Ice	0.000	0.003
							2" Ice	0.000	0.003
*									
FLC 12-50J(1/2)	C	No	No	Inside Pole	60.000 - 0.000	1	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
							2" Ice	0.000	0.000
*									

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	129.000-124.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	0.188	0.000	0.001
		C	0.000	0.000	1.071	0.000	0.017
L2	124.000-119.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	0.188	0.000	0.001
		C	0.000	0.000	5.356	0.000	0.084
L3	119.000-115.500	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	0.131	0.000	0.005
		C	0.000	0.000	3.750	0.000	0.059
L4	115.500-115.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	0.019	0.000	0.004
		C	0.000	0.000	0.536	0.000	0.008
L5	115.000-110.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	0.188	0.000	0.043
		C	0.000	0.000	5.356	0.000	0.084
L6	110.000-105.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	0.188	0.000	0.043
		C	0.000	0.000	5.356	0.000	0.084
L7	105.000-100.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	0.188	0.000	0.043
		C	0.000	0.000	5.356	0.000	0.107
L8	100.000-95.000	A	0.000	0.000	0.750	0.000	0.000
		B	0.000	0.000	0.938	0.000	0.043
		C	0.000	0.000	6.106	0.000	0.107
L9	95.000-94.500	A	0.000	0.000	0.375	0.000	0.000
		B	0.000	0.000	0.394	0.000	0.004
		C	0.000	0.000	0.911	0.000	0.011
L10	94.500-94.250	A	0.000	0.000	0.188	0.000	0.000
		B	0.000	0.000	0.197	0.000	0.002
		C	0.000	0.000	0.455	0.000	0.005
L11	94.250-92.083	A	0.000	0.000	3.123	0.000	0.024
		B	0.000	0.000	3.204	0.000	0.019
		C	0.000	0.000	5.444	0.000	0.047
L12	92.083-91.833	A	0.000	0.000	0.375	0.000	0.003
		B	0.000	0.000	0.384	0.000	0.002
		C	0.000	0.000	0.643	0.000	0.005
L13	91.833-86.833	A	0.000	0.000	7.500	0.000	0.062
		B	0.000	0.000	7.688	0.000	0.043
		C	0.000	0.000	12.857	0.000	0.107
L14	86.833-81.833	A	0.000	0.000	7.500	0.000	0.062
		B	0.000	0.000	7.688	0.000	0.043
		C	0.000	0.000	12.857	0.000	0.107
L15	81.833-73.125	A	0.000	0.000	13.281	0.000	0.108
		B	0.000	0.000	13.608	0.000	0.075
		C	0.000	0.000	22.610	0.000	0.187
L16	73.125-72.792	A	0.000	0.000	0.583	0.000	0.004
		B	0.000	0.000	0.595	0.000	0.003
		C	0.000	0.000	0.939	0.000	0.007
L17	72.792-71.500	A	0.000	0.000	2.261	0.000	0.016
		B	0.000	0.000	2.309	0.000	0.011
		C	0.000	0.000	3.645	0.000	0.028
L18	71.500-71.250	A	0.000	0.000	0.438	0.000	0.003
		B	0.000	0.000	0.447	0.000	0.002
		C	0.000	0.000	0.705	0.000	0.005
L19	71.250-68.333	A	0.000	0.000	10.110	0.000	0.036
		B	0.000	0.000	7.745	0.000	0.025
		C	0.000	0.000	14.255	0.000	0.063
L20	68.333-68.083	A	0.000	0.000	1.063	0.000	0.003
		B	0.000	0.000	0.718	0.000	0.002
		C	0.000	0.000	1.330	0.000	0.005
L21	68.083-67.917	A	0.000	0.000	0.708	0.000	0.002

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	0.478	0.000	0.001
		C	0.000	0.000	0.887	0.000	0.004
L22	67.917-67.667	A	0.000	0.000	1.063	0.000	0.003
		B	0.000	0.000	0.718	0.000	0.002
		C	0.000	0.000	1.330	0.000	0.005
L23	67.667-67.500	A	0.000	0.000	0.708	0.000	0.002
		B	0.000	0.000	0.478	0.000	0.001
		C	0.000	0.000	0.887	0.000	0.004
L24	67.500-67.250	A	0.000	0.000	1.063	0.000	0.003
		B	0.000	0.000	0.718	0.000	0.002
		C	0.000	0.000	1.330	0.000	0.005
L25	67.250-66.333	A	0.000	0.000	3.896	0.000	0.011
		B	0.000	0.000	2.632	0.000	0.008
		C	0.000	0.000	4.878	0.000	0.020
L26	66.333-66.083	A	0.000	0.000	1.063	0.000	0.003
		B	0.000	0.000	0.718	0.000	0.002
		C	0.000	0.000	1.330	0.000	0.005
L27	66.083-61.083	A	0.000	0.000	17.563	0.000	0.062
		B	0.000	0.000	10.667	0.000	0.043
		C	0.000	0.000	22.919	0.000	0.107
L28	61.083-56.500	A	0.000	0.000	18.542	0.000	0.057
		B	0.000	0.000	12.220	0.000	0.039
		C	0.000	0.000	23.452	0.000	0.099
L29	56.500-56.250	A	0.000	0.000	1.125	0.000	0.003
		B	0.000	0.000	0.780	0.000	0.002
		C	0.000	0.000	1.393	0.000	0.005
L30	56.250-51.250	A	0.000	0.000	19.750	0.000	0.062
		B	0.000	0.000	12.854	0.000	0.043
		C	0.000	0.000	25.107	0.000	0.108
L31	51.250-46.250	A	0.000	0.000	17.500	0.000	0.062
		B	0.000	0.000	10.604	0.000	0.043
		C	0.000	0.000	22.857	0.000	0.108
L32	46.250-36.542	A	0.000	0.000	31.422	0.000	0.121
		B	0.000	0.000	18.034	0.000	0.083
		C	0.000	0.000	41.823	0.000	0.210
L33	36.542-35.542	A	0.000	0.000	2.500	0.000	0.012
		B	0.000	0.000	1.121	0.000	0.009
		C	0.000	0.000	3.571	0.000	0.022
L34	35.542-31.250	A	0.000	0.000	10.730	0.000	0.053
		B	0.000	0.000	10.123	0.000	0.037
		C	0.000	0.000	15.328	0.000	0.093
L35	31.250-31.000	A	0.000	0.000	0.625	0.000	0.003
		B	0.000	0.000	0.634	0.000	0.002
		C	0.000	0.000	0.893	0.000	0.005
L36	31.000-26.000	A	0.000	0.000	12.500	0.000	0.062
		B	0.000	0.000	12.688	0.000	0.043
		C	0.000	0.000	17.857	0.000	0.108
L37	26.000-22.000	A	0.000	0.000	10.000	0.000	0.050
		B	0.000	0.000	10.150	0.000	0.034
		C	0.000	0.000	18.077	0.000	0.087
L38	22.000-21.750	A	0.000	0.000	0.625	0.000	0.003
		B	0.000	0.000	0.634	0.000	0.002
		C	0.000	0.000	1.164	0.000	0.005
L39	21.750-19.083	A	0.000	0.000	8.083	0.000	0.033
		B	0.000	0.000	8.183	0.000	0.023
		C	0.000	0.000	13.829	0.000	0.058
L40	19.083-18.833	A	0.000	0.000	0.875	0.000	0.003
		B	0.000	0.000	0.884	0.000	0.002
		C	0.000	0.000	1.414	0.000	0.005
L41	18.833-18.000	A	0.000	0.000	2.917	0.000	0.010
		B	0.000	0.000	2.948	0.000	0.007

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
		C	0.000	0.000	4.712	0.000	0.018
L42	18.000-17.750	A	0.000	0.000	0.875	0.000	0.003
		B	0.000	0.000	0.884	0.000	0.002
		C	0.000	0.000	1.414	0.000	0.005
L43	17.750-17.000	A	0.000	0.000	2.625	0.000	0.009
		B	0.000	0.000	2.653	0.000	0.006
		C	0.000	0.000	4.241	0.000	0.016
L44	17.000-16.750	A	0.000	0.000	0.875	0.000	0.003
		B	0.000	0.000	0.884	0.000	0.002
		C	0.000	0.000	1.414	0.000	0.005
L45	16.750-11.750	A	0.000	0.000	13.351	0.000	0.062
		B	0.000	0.000	17.688	0.000	0.043
		C	0.000	0.000	28.273	0.000	0.108
L46	11.750-6.750	A	0.000	0.000	12.083	0.000	0.062
		B	0.000	0.000	17.688	0.000	0.043
		C	0.000	0.000	28.273	0.000	0.108
L47	6.750-4.000	A	0.000	0.000	6.646	0.000	0.034
		B	0.000	0.000	9.728	0.000	0.024
		C	0.000	0.000	15.550	0.000	0.059
L48	4.000-3.750	A	0.000	0.000	0.604	0.000	0.003
		B	0.000	0.000	0.884	0.000	0.002
		C	0.000	0.000	1.414	0.000	0.005
L49	3.750-3.000	A	0.000	0.000	1.813	0.000	0.009
		B	0.000	0.000	2.653	0.000	0.006
		C	0.000	0.000	4.241	0.000	0.016
L50	3.000-2.750	A	0.000	0.000	0.604	0.000	0.003
		B	0.000	0.000	0.884	0.000	0.002
		C	0.000	0.000	1.414	0.000	0.005
L51	2.750-0.000	A	0.000	0.000	6.646	0.000	0.034
		B	0.000	0.000	9.728	0.000	0.024
		C	0.000	0.000	15.550	0.000	0.059

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	129.000-124.000	A	1.458	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	1.646	0.000	0.017
		C		0.000	0.000	2.068	0.000	0.038
L2	124.000-119.000	A	1.453	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	1.640	0.000	0.017
		C		0.000	0.000	10.327	0.000	0.191
L3	119.000-115.500	A	1.447	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	1.144	0.000	0.016
		C		0.000	0.000	7.220	0.000	0.133
L4	115.500-115.000	A	1.445	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	0.163	0.000	0.006
		C		0.000	0.000	1.031	0.000	0.019
L5	115.000-110.000	A	1.441	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	1.629	0.000	0.059
		C		0.000	0.000	10.299	0.000	0.190
L6	110.000-105.000	A	1.435	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	1.622	0.000	0.059
		C		0.000	0.000	10.283	0.000	0.190
L7	105.000-100.000	A	1.428	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	1.615	0.000	0.059
		C		0.000	0.000	10.266	0.000	0.212

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
L8	100.000-95.000	A	1.421	0.000	0.000	1.034	0.000	0.009
		B		0.000	0.000	2.643	0.000	0.068
		C		0.000	0.000	11.282	0.000	0.220
L9	95.000-94.500	A	1.417	0.000	0.000	0.517	0.000	0.005
		B		0.000	0.000	0.677	0.000	0.010
		C		0.000	0.000	1.540	0.000	0.026
L10	94.500-94.250	A	1.416	0.000	0.000	0.258	0.000	0.002
		B		0.000	0.000	0.339	0.000	0.005
		C		0.000	0.000	0.770	0.000	0.013
L11	94.250-92.083	A	1.414	0.000	0.000	4.300	0.000	0.061
		B		0.000	0.000	4.994	0.000	0.063
		C		0.000	0.000	8.734	0.000	0.129
L12	92.083-91.833	A	1.413	0.000	0.000	0.516	0.000	0.008
		B		0.000	0.000	0.596	0.000	0.007
		C		0.000	0.000	1.028	0.000	0.015
L13	91.833-86.833	A	1.408	0.000	0.000	10.317	0.000	0.152
		B		0.000	0.000	11.913	0.000	0.148
		C		0.000	0.000	20.534	0.000	0.300
L14	86.833-81.833	A	1.400	0.000	0.000	10.301	0.000	0.151
		B		0.000	0.000	11.889	0.000	0.147
		C		0.000	0.000	20.497	0.000	0.298
L15	81.833-73.125	A	1.389	0.000	0.000	18.118	0.000	0.263
		B		0.000	0.000	20.863	0.000	0.255
		C		0.000	0.000	35.825	0.000	0.517
L16	73.125-72.792	A	1.380	0.000	0.000	0.768	0.000	0.011
		B		0.000	0.000	0.873	0.000	0.010
		C		0.000	0.000	1.445	0.000	0.020
L17	72.792-71.500	A	1.379	0.000	0.000	2.974	0.000	0.041
		B		0.000	0.000	3.378	0.000	0.039
		C		0.000	0.000	5.594	0.000	0.078
L18	71.500-71.250	A	1.377	0.000	0.000	0.575	0.000	0.008
		B		0.000	0.000	0.653	0.000	0.008
		C		0.000	0.000	1.082	0.000	0.015
L19	71.250-68.333	A	1.374	0.000	0.000	12.835	0.000	0.140
		B		0.000	0.000	10.792	0.000	0.115
		C		0.000	0.000	19.963	0.000	0.235
L20	68.333-68.083	A	1.371	0.000	0.000	1.337	0.000	0.014
		B		0.000	0.000	0.992	0.000	0.010
		C		0.000	0.000	1.843	0.000	0.021
L21	68.083-67.917	A	1.371	0.000	0.000	0.891	0.000	0.009
		B		0.000	0.000	0.661	0.000	0.007
		C		0.000	0.000	1.228	0.000	0.014
L22	67.917-67.667	A	1.370	0.000	0.000	1.337	0.000	0.014
		B		0.000	0.000	0.992	0.000	0.010
		C		0.000	0.000	1.843	0.000	0.021
L23	67.667-67.500	A	1.370	0.000	0.000	0.891	0.000	0.009
		B		0.000	0.000	0.661	0.000	0.007
		C		0.000	0.000	1.228	0.000	0.014
L24	67.500-67.250	A	1.369	0.000	0.000	1.336	0.000	0.014
		B		0.000	0.000	0.992	0.000	0.010
		C		0.000	0.000	1.842	0.000	0.021
L25	67.250-66.333	A	1.368	0.000	0.000	4.899	0.000	0.051
		B		0.000	0.000	3.635	0.000	0.038
		C		0.000	0.000	6.754	0.000	0.077
L26	66.333-66.083	A	1.367	0.000	0.000	1.336	0.000	0.014
		B		0.000	0.000	0.991	0.000	0.010
		C		0.000	0.000	1.842	0.000	0.021
L27	66.083-61.083	A	1.361	0.000	0.000	21.669	0.000	0.234
		B		0.000	0.000	14.774	0.000	0.164
		C		0.000	0.000	31.768	0.000	0.378
L28	61.083-56.500	A	1.351	0.000	0.000	22.932	0.000	0.237

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	16.610	0.000	0.173
		C		0.000	0.000	32.165	0.000	0.369
L29	56.500-56.250	A	1.345	0.000	0.000	1.394	0.000	0.014
		B		0.000	0.000	1.049	0.000	0.011
		C		0.000	0.000	1.897	0.000	0.021
L30	56.250-51.250	A	1.339	0.000	0.000	24.369	0.000	0.252
		B		0.000	0.000	17.473	0.000	0.183
		C		0.000	0.000	34.411	0.000	0.395
L31	51.250-46.250	A	1.326	0.000	0.000	21.477	0.000	0.227
		B		0.000	0.000	14.581	0.000	0.159
		C		0.000	0.000	31.487	0.000	0.369
L32	46.250-36.542	A	1.304	0.000	0.000	38.354	0.000	0.410
		B		0.000	0.000	24.965	0.000	0.279
		C		0.000	0.000	57.684	0.000	0.682
L33	36.542-35.542	A	1.286	0.000	0.000	3.022	0.000	0.035
		B		0.000	0.000	1.642	0.000	0.022
		C		0.000	0.000	5.013	0.000	0.063
L34	35.542-31.250	A	1.276	0.000	0.000	12.921	0.000	0.149
		B		0.000	0.000	13.272	0.000	0.137
		C		0.000	0.000	21.408	0.000	0.267
L35	31.250-31.000	A	1.268	0.000	0.000	0.752	0.000	0.009
		B		0.000	0.000	0.825	0.000	0.008
		C		0.000	0.000	1.245	0.000	0.015
L36	31.000-26.000	A	1.256	0.000	0.000	15.013	0.000	0.171
		B		0.000	0.000	16.457	0.000	0.164
		C		0.000	0.000	24.849	0.000	0.307
L37	26.000-22.000	A	1.235	0.000	0.000	11.976	0.000	0.135
		B		0.000	0.000	13.114	0.000	0.129
		C		0.000	0.000	24.459	0.000	0.276
L38	22.000-21.750	A	1.224	0.000	0.000	0.747	0.000	0.008
		B		0.000	0.000	0.818	0.000	0.008
		C		0.000	0.000	1.567	0.000	0.017
L39	21.750-19.083	A	1.215	0.000	0.000	9.724	0.000	0.101
		B		0.000	0.000	10.472	0.000	0.097
		C		0.000	0.000	18.452	0.000	0.198
L40	19.083-18.833	A	1.206	0.000	0.000	1.056	0.000	0.010
		B		0.000	0.000	1.126	0.000	0.010
		C		0.000	0.000	1.873	0.000	0.019
L41	18.833-18.000	A	1.203	0.000	0.000	3.518	0.000	0.035
		B		0.000	0.000	3.750	0.000	0.034
		C		0.000	0.000	6.238	0.000	0.065
L42	18.000-17.750	A	1.199	0.000	0.000	1.055	0.000	0.010
		B		0.000	0.000	1.124	0.000	0.010
		C		0.000	0.000	1.870	0.000	0.019
L43	17.750-17.000	A	1.196	0.000	0.000	3.163	0.000	0.031
		B		0.000	0.000	3.371	0.000	0.030
		C		0.000	0.000	5.608	0.000	0.058
L44	17.000-16.750	A	1.192	0.000	0.000	1.054	0.000	0.010
		B		0.000	0.000	1.123	0.000	0.010
		C		0.000	0.000	1.868	0.000	0.019
L45	16.750-11.750	A	1.172	0.000	0.000	15.970	0.000	0.169
		B		0.000	0.000	22.376	0.000	0.196
		C		0.000	0.000	37.232	0.000	0.379
L46	11.750-6.750	A	1.123	0.000	0.000	14.328	0.000	0.154
		B		0.000	0.000	22.178	0.000	0.188
		C		0.000	0.000	36.909	0.000	0.366
L47	6.750-4.000	A	1.063	0.000	0.000	7.815	0.000	0.081
		B		0.000	0.000	12.067	0.000	0.098
		C		0.000	0.000	20.088	0.000	0.192
L48	4.000-3.750	A	1.029	0.000	0.000	0.707	0.000	0.007
		B		0.000	0.000	1.090	0.000	0.009

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		C		0.000	0.000	1.815	0.000	0.017
L49	3.750-3.000	A	1.015	0.000	0.000	2.117	0.000	0.022
		B		0.000	0.000	3.262	0.000	0.026
		C		0.000	0.000	5.432	0.000	0.051
L50	3.000-2.750	A	0.999	0.000	0.000	0.704	0.000	0.007
		B		0.000	0.000	1.084	0.000	0.008
		C		0.000	0.000	1.805	0.000	0.017
L51	2.750-0.000	A	0.928	0.000	0.000	7.666	0.000	0.074
		B		0.000	0.000	11.769	0.000	0.087
		C		0.000	0.000	19.603	0.000	0.173

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
L1	129.000-124.000	0.781	1.908	1.272	1.379
L2	124.000-119.000	1.507	5.264	1.370	3.731
L3	119.000-115.500	1.507	5.264	1.369	3.731
L4	115.500-115.000	1.576	5.495	1.455	3.941
L5	115.000-110.000	1.241	4.324	1.465	3.962
L6	110.000-105.000	1.262	4.393	1.513	4.080
L7	105.000-100.000	1.281	4.457	1.558	4.194
L8	100.000-95.000	1.124	3.908	1.448	3.890
L9	95.000-94.500	0.741	2.576	1.066	2.860
L10	94.500-94.250	0.744	2.584	1.069	2.869
L11	94.250-92.083	0.535	1.860	0.818	2.196
L12	92.083-91.833	0.527	1.831	0.809	2.170
L13	91.833-86.833	0.536	1.860	0.824	2.207
L14	86.833-81.833	0.552	1.914	0.851	2.277
L15	81.833-73.125	0.567	1.967	0.881	2.355
L16	73.125-72.792	0.530	1.838	0.850	2.270
L17	72.792-71.500	0.533	1.846	0.853	2.279
L18	71.500-71.250	0.535	1.854	0.857	2.290
L19	71.250-68.333	-0.916	1.127	-0.452	1.543
L20	68.333-68.083	-1.119	0.574	-0.659	1.043
L21	68.083-67.917	-1.121	0.574	-0.660	1.044
L22	67.917-67.667	-1.075	0.551	-0.659	1.042
L23	67.667-67.500	-1.076	0.551	-0.660	1.044
L24	67.500-67.250	-1.082	0.554	-0.663	1.048
L25	67.250-66.333	-1.130	0.578	-0.666	1.051
L26	66.333-66.083	-1.088	0.556	-0.667	1.053
L27	66.083-61.083	-1.294	0.659	-0.797	1.251
L28	61.083-56.500	-1.241	0.628	-0.740	1.150
L29	56.500-56.250	-1.150	0.580	-0.693	1.071
L30	56.250-51.250	-1.306	0.656	-0.780	1.200
L31	51.250-46.250	-1.485	0.741	-0.883	1.345
L32	46.250-36.542	-0.829	-0.597	-0.259	0.222
L33	36.542-35.542	0.345	-3.115	0.869	-1.785
L34	35.542-31.250	1.877	-0.882	2.110	-0.029
L35	31.250-31.000	2.089	-0.605	2.291	0.198
L36	31.000-26.000	2.114	-0.615	2.317	0.195
L37	26.000-22.000	0.209	-0.300	0.608	0.430
L38	22.000-21.750	-0.044	-0.261	0.381	0.461
L39	21.750-19.083	-0.039	-0.235	0.342	0.414
L40	19.083-18.833	-0.036	-0.216	0.314	0.380
L41	18.833-18.000	-0.037	-0.217	0.315	0.380

Section	Elevation	CP_X	CP_Z	CP_X Ice	CP_Z Ice
	ft	in	in	in	in
L42	18.000-17.750	-0.037	-0.218	0.315	0.380
L43	17.750-17.000	-0.037	-0.219	0.315	0.380
L44	17.000-16.750	-0.037	-0.220	0.315	0.380
L45	16.750-11.750	-0.543	1.072	-0.126	1.584
L46	11.750-6.750	-0.724	1.520	-0.285	2.001
L47	6.750-4.000	-0.737	1.543	-0.304	2.019
L48	4.000-3.750	-0.742	1.551	-0.314	2.024
L49	3.750-3.000	-0.743	1.554	-0.318	2.025
L50	3.000-2.750	-0.745	1.557	-0.322	2.026
L51	2.750-0.000	-0.750	1.566	-0.341	2.023

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	34	HCS 6X12 4AWG(1-5/8)	124.00 - 125.00	1.0000	1.0000
L1	35	OSP6U(1/4)	124.00 - 125.00	1.0000	1.0000
L1	56	Safety Line 3/8	124.00 - 129.00	1.0000	1.0000
L2	34	HCS 6X12 4AWG(1-5/8)	119.00 - 124.00	1.0000	1.0000
L2	35	OSP6U(1/4)	119.00 - 124.00	1.0000	1.0000
L2	56	Safety Line 3/8	119.00 - 124.00	1.0000	1.0000
L3	34	HCS 6X12 4AWG(1-5/8)	115.50 - 119.00	1.0000	1.0000
L3	35	OSP6U(1/4)	115.50 - 119.00	1.0000	1.0000
L3	56	Safety Line 3/8	115.50 - 119.00	1.0000	1.0000
L4	34	HCS 6X12 4AWG(1-5/8)	115.00 - 115.50	1.0000	1.0000
L4	35	OSP6U(1/4)	115.00 - 115.50	1.0000	1.0000
L4	56	Safety Line 3/8	115.00 - 115.50	1.0000	1.0000
L5	34	HCS 6X12 4AWG(1-5/8)	110.00 - 115.00	1.0000	1.0000
L5	35	OSP6U(1/4)	110.00 - 115.00	1.0000	1.0000
L5	56	Safety Line 3/8	110.00 - 115.00	1.0000	1.0000
L6	34	HCS 6X12 4AWG(1-5/8)	105.00 - 110.00	1.0000	1.0000
L6	35	OSP6U(1/4)	105.00 - 110.00	1.0000	1.0000
L6	56	Safety Line 3/8	105.00 - 110.00	1.0000	1.0000
L7	34	HCS 6X12 4AWG(1-5/8)	100.00 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
			105.00		
L7	35	OSP6U(1/4)	100.00 - 105.00	1.0000	1.0000
L7	56	Safety Line 3/8	100.00 - 105.00	1.0000	1.0000
L8	30	CCI-045100 (L)	95.00 - 96.00	1.0000	1.0000
L8	31	CCI-045100 (L)	95.00 - 96.00	1.0000	1.0000
L8	32	CCI-045100 (L)	95.00 - 96.00	1.0000	1.0000
L8	34	HCS 6X12 4AWG(1-5/8)	95.00 - 100.00	1.0000	1.0000
L8	35	OSP6U(1/4)	95.00 - 100.00	1.0000	1.0000
L8	56	Safety Line 3/8	95.00 - 100.00	1.0000	1.0000
L9	30	CCI-045100 (L)	94.50 - 95.00	1.0000	1.0000
L9	31	CCI-045100 (L)	94.50 - 95.00	1.0000	1.0000
L9	32	CCI-045100 (L)	94.50 - 95.00	1.0000	1.0000
L9	34	HCS 6X12 4AWG(1-5/8)	94.50 - 95.00	1.0000	1.0000
L9	35	OSP6U(1/4)	94.50 - 95.00	1.0000	1.0000
L9	56	Safety Line 3/8	94.50 - 95.00	1.0000	1.0000
L10	30	CCI-045100 (L)	94.25 - 94.50	1.0000	1.0000
L10	31	CCI-045100 (L)	94.25 - 94.50	1.0000	1.0000
L10	32	CCI-045100 (L)	94.25 - 94.50	1.0000	1.0000
L10	34	HCS 6X12 4AWG(1-5/8)	94.25 - 94.50	1.0000	1.0000
L10	35	OSP6U(1/4)	94.25 - 94.50	1.0000	1.0000
L10	56	Safety Line 3/8	94.25 - 94.50	1.0000	1.0000
L11	18	CCI-045100 (L)	92.08 - 94.08	1.0000	1.0000
L11	19	CCI-045100 (L)	92.08 - 94.08	1.0000	1.0000
L11	20	CCI-045100 (L)	92.08 - 94.08	1.0000	1.0000
L11	30	CCI-045100 (L)	92.08 - 94.25	1.0000	1.0000
L11	31	CCI-045100 (L)	92.08 - 94.25	1.0000	1.0000
L11	32	CCI-045100 (L)	92.08 - 94.25	1.0000	1.0000
L11	34	HCS 6X12 4AWG(1-5/8)	92.08 - 94.25	1.0000	1.0000
L11	35	OSP6U(1/4)	92.08 - 94.25	1.0000	1.0000
L11	56	Safety Line 3/8	92.08 - 94.25	1.0000	1.0000
L12	18	CCI-045100 (L)	91.83 - 92.08	1.0000	1.0000
L12	19	CCI-045100 (L)	91.83 - 92.08	1.0000	1.0000
L12	20	CCI-045100 (L)	91.83 - 92.08	1.0000	1.0000
L12	30	CCI-045100 (L)	91.83 - 92.08	1.0000	1.0000
L12	31	CCI-045100 (L)	91.83 - 92.08	1.0000	1.0000
L12	32	CCI-045100 (L)	91.83 - 92.08	1.0000	1.0000
L12	34	HCS 6X12 4AWG(1-5/8)	91.83 - 92.08	1.0000	1.0000
L12	35	OSP6U(1/4)	91.83 - 92.08	1.0000	1.0000
L12	56	Safety Line 3/8	91.83 - 92.08	1.0000	1.0000
L13	18	CCI-045100 (L)	86.83 - 91.83	1.0000	1.0000
L13	19	CCI-045100 (L)	86.83 - 91.83	1.0000	1.0000
L13	20	CCI-045100 (L)	86.83 - 91.83	1.0000	1.0000
L13	30	CCI-045100 (L)	86.83 - 91.83	1.0000	1.0000
L13	31	CCI-045100 (L)	86.83 - 91.83	1.0000	1.0000
L13	32	CCI-045100 (L)	86.83 - 91.83	1.0000	1.0000
L13	34	HCS 6X12 4AWG(1-5/8)	86.83 - 91.83	1.0000	1.0000
L13	35	OSP6U(1/4)	86.83 - 91.83	1.0000	1.0000
L13	56	Safety Line 3/8	86.83 - 91.83	1.0000	1.0000
L14	18	CCI-045100 (L)	81.83 - 86.83	1.0000	1.0000
L14	19	CCI-045100 (L)	81.83 - 86.83	1.0000	1.0000
L14	20	CCI-045100 (L)	81.83 - 86.83	1.0000	1.0000
L14	30	CCI-045100 (L)	81.83 - 86.83	1.0000	1.0000
L14	31	CCI-045100 (L)	81.83 - 86.83	1.0000	1.0000
L14	32	CCI-045100 (L)	81.83 - 86.83	1.0000	1.0000
L14	34	HCS 6X12 4AWG(1-5/8)	81.83 - 86.83	1.0000	1.0000
L14	35	OSP6U(1/4)	81.83 - 86.83	1.0000	1.0000
L14	56	Safety Line 3/8	81.83 - 86.83	1.0000	1.0000
L15	15	CCI-060100 (W)	73.12 - 74.00	1.0000	1.0000
L15	16	CCI-060100 (W)	73.12 - 74.00	1.0000	1.0000
L15	17	CCI-060100 (W)	73.12 - 74.00	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L15	18	CCI-045100 (L)	74.00 - 81.83	1.0000	1.0000
L15	19	CCI-045100 (L)	74.00 - 81.83	1.0000	1.0000
L15	20	CCI-045100 (L)	74.00 - 81.83	1.0000	1.0000
L15	30	CCI-045100 (L)	73.12 - 81.83	1.0000	1.0000
L15	31	CCI-045100 (L)	73.12 - 81.83	1.0000	1.0000
L15	32	CCI-045100 (L)	73.12 - 81.83	1.0000	1.0000
L15	34	HCS 6X12 4AWG(1-5/8)	73.12 - 81.83	1.0000	1.0000
L15	35	OSP6U(1/4)	73.12 - 81.83	1.0000	1.0000
L15	56	Safety Line 3/8	73.12 - 81.83	1.0000	1.0000
L16	15	CCI-060100 (W)	72.79 - 73.12	1.0000	1.0000
L16	16	CCI-060100 (W)	72.79 - 73.12	1.0000	1.0000
L16	17	CCI-060100 (W)	72.79 - 73.12	1.0000	1.0000
L16	30	CCI-045100 (L)	72.79 - 73.12	1.0000	1.0000
L16	31	CCI-045100 (L)	72.79 - 73.12	1.0000	1.0000
L16	32	CCI-045100 (L)	72.79 - 73.12	1.0000	1.0000
L16	34	HCS 6X12 4AWG(1-5/8)	72.79 - 73.12	1.0000	1.0000
L16	35	OSP6U(1/4)	72.79 - 73.12	1.0000	1.0000
L16	56	Safety Line 3/8	72.79 - 73.12	1.0000	1.0000
L17	15	CCI-060100 (W)	71.50 - 72.79	1.0000	1.0000
L17	16	CCI-060100 (W)	71.50 - 72.79	1.0000	1.0000
L17	17	CCI-060100 (W)	71.50 - 72.79	1.0000	1.0000
L17	30	CCI-045100 (L)	71.50 - 72.79	1.0000	1.0000
L17	31	CCI-045100 (L)	71.50 - 72.79	1.0000	1.0000
L17	32	CCI-045100 (L)	71.50 - 72.79	1.0000	1.0000
L17	34	HCS 6X12 4AWG(1-5/8)	71.50 - 72.79	1.0000	1.0000
L17	35	OSP6U(1/4)	71.50 - 72.79	1.0000	1.0000
L17	56	Safety Line 3/8	71.50 - 72.79	1.0000	1.0000
L18	15	CCI-060100 (W)	71.25 - 71.50	1.0000	1.0000
L18	16	CCI-060100 (W)	71.25 - 71.50	1.0000	1.0000
L18	17	CCI-060100 (W)	71.25 - 71.50	1.0000	1.0000
L18	30	CCI-045100 (L)	71.25 - 71.50	1.0000	1.0000
L18	31	CCI-045100 (L)	71.25 - 71.50	1.0000	1.0000
L18	32	CCI-045100 (L)	71.25 - 71.50	1.0000	1.0000
L18	34	HCS 6X12 4AWG(1-5/8)	71.25 - 71.50	1.0000	1.0000
L18	35	OSP6U(1/4)	71.25 - 71.50	1.0000	1.0000
L18	56	Safety Line 3/8	71.25 - 71.50	1.0000	1.0000
L19	15	CCI-060100 (W)	68.33 - 71.25	1.0000	1.0000
L19	16	CCI-060100 (W)	68.33 - 71.25	1.0000	1.0000
L19	17	CCI-060100 (W)	68.33 - 71.25	1.0000	1.0000
L19	25	CCI-085125 (W)	68.33 - 70.08	1.0000	1.0000
L19	26	CCI-085125 (W)	68.33 - 70.80	1.0000	1.0000
L19	27	CCI-065125 (L)	68.33 - 70.67	1.0000	1.0000
L19	28	CCI-065125 (L)	68.33 - 70.67	1.0000	1.0000
L19	29	CCI-065125 (L)	68.33 - 70.67	1.0000	1.0000
L19	30	CCI-045100 (L)	68.33 - 71.25	1.0000	1.0000
L19	31	CCI-045100 (L)	68.33 - 71.25	1.0000	1.0000
L19	32	CCI-045100 (L)	68.33 - 71.25	1.0000	1.0000
L19	34	HCS 6X12 4AWG(1-5/8)	68.33 - 71.25	1.0000	1.0000
L19	35	OSP6U(1/4)	68.33 - 71.25	1.0000	1.0000
L19	56	Safety Line 3/8	68.33 - 71.25	1.0000	1.0000
L20	15	CCI-060100 (W)	68.08 - 68.33	1.0000	1.0000
L20	16	CCI-060100 (W)	68.08 - 68.33	1.0000	1.0000
L20	17	CCI-060100 (W)	68.08 - 68.33	1.0000	1.0000
L20	25	CCI-085125 (W)	68.08 - 68.33	1.0000	1.0000
L20	26	CCI-085125 (W)	68.08 - 68.33	1.0000	1.0000
L20	27	CCI-065125 (L)	68.08 - 68.33	1.0000	1.0000
L20	28	CCI-065125 (L)	68.08 - 68.33	1.0000	1.0000
L20	29	CCI-065125 (L)	68.08 - 68.33	1.0000	1.0000
L20	30	CCI-045100 (L)	68.08 - 68.33	1.0000	1.0000
L20	31	CCI-045100 (L)	68.08 - 68.33	1.0000	1.0000
L20	32	CCI-045100 (L)	68.08 - 68.33	1.0000	1.0000
L20	34	HCS 6X12 4AWG(1-5/8)	68.08 - 68.33	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L20	35	OSP6U(1/4)	68.08 - 68.33	1.0000	1.0000
L20	56	Safety Line 3/8	68.08 - 68.33	1.0000	1.0000
L21	15	CCI-060100 (W)	67.92 - 68.08	1.0000	1.0000
L21	16	CCI-060100 (W)	67.92 - 68.08	1.0000	1.0000
L21	17	CCI-060100 (W)	67.92 - 68.08	1.0000	1.0000
L21	25	CCI-085125 (W)	67.92 - 68.08	1.0000	1.0000
L21	26	CCI-085125 (W)	67.92 - 68.08	1.0000	1.0000
L21	27	CCI-065125 (L)	67.92 - 68.08	1.0000	1.0000
L21	28	CCI-065125 (L)	67.92 - 68.08	1.0000	1.0000
L21	29	CCI-065125 (L)	67.92 - 68.08	1.0000	1.0000
L21	30	CCI-045100 (L)	67.92 - 68.08	1.0000	1.0000
L21	31	CCI-045100 (L)	67.92 - 68.08	1.0000	1.0000
L21	32	CCI-045100 (L)	67.92 - 68.08	1.0000	1.0000
L21	34	HCS 6X12 4AWG(1-5/8)	67.92 - 68.08	1.0000	1.0000
L21	35	OSP6U(1/4)	67.92 - 68.08	1.0000	1.0000
L21	56	Safety Line 3/8	67.92 - 68.08	1.0000	1.0000
L22	15	CCI-060100 (W)	67.67 - 67.92	1.0000	1.0000
L22	16	CCI-060100 (W)	67.67 - 67.92	1.0000	1.0000
L22	17	CCI-060100 (W)	67.67 - 67.92	1.0000	1.0000
L22	25	CCI-085125 (W)	67.67 - 67.92	1.0000	1.0000
L22	26	CCI-085125 (W)	67.67 - 67.92	1.0000	1.0000
L22	27	CCI-065125 (L)	67.67 - 67.92	1.0000	1.0000
L22	28	CCI-065125 (L)	67.67 - 67.92	1.0000	1.0000
L22	29	CCI-065125 (L)	67.67 - 67.92	1.0000	1.0000
L22	30	CCI-045100 (L)	67.67 - 67.92	1.0000	1.0000
L22	31	CCI-045100 (L)	67.67 - 67.92	1.0000	1.0000
L22	32	CCI-045100 (L)	67.67 - 67.92	1.0000	1.0000
L22	34	HCS 6X12 4AWG(1-5/8)	67.67 - 67.92	1.0000	1.0000
L22	35	OSP6U(1/4)	67.67 - 67.92	1.0000	1.0000
L22	56	Safety Line 3/8	67.67 - 67.92	1.0000	1.0000
L23	15	CCI-060100 (W)	67.50 - 67.67	1.0000	1.0000
L23	16	CCI-060100 (W)	67.50 - 67.67	1.0000	1.0000
L23	17	CCI-060100 (W)	67.50 - 67.67	1.0000	1.0000
L23	25	CCI-085125 (W)	67.50 - 67.67	1.0000	1.0000
L23	26	CCI-085125 (W)	67.50 - 67.67	1.0000	1.0000
L23	27	CCI-065125 (L)	67.50 - 67.67	1.0000	1.0000
L23	28	CCI-065125 (L)	67.50 - 67.67	1.0000	1.0000
L23	29	CCI-065125 (L)	67.50 - 67.67	1.0000	1.0000
L23	30	CCI-045100 (L)	67.50 - 67.67	1.0000	1.0000
L23	31	CCI-045100 (L)	67.50 - 67.67	1.0000	1.0000
L23	32	CCI-045100 (L)	67.50 - 67.67	1.0000	1.0000
L23	34	HCS 6X12 4AWG(1-5/8)	67.50 - 67.67	1.0000	1.0000
L23	35	OSP6U(1/4)	67.50 - 67.67	1.0000	1.0000
L23	56	Safety Line 3/8	67.50 - 67.67	1.0000	1.0000
L24	15	CCI-060100 (W)	67.25 - 67.50	1.0000	1.0000
L24	16	CCI-060100 (W)	67.25 - 67.50	1.0000	1.0000
L24	17	CCI-060100 (W)	67.25 - 67.50	1.0000	1.0000
L24	25	CCI-085125 (W)	67.25 - 67.50	1.0000	1.0000
L24	26	CCI-085125 (W)	67.25 - 67.50	1.0000	1.0000
L24	27	CCI-065125 (L)	67.25 - 67.50	1.0000	1.0000
L24	28	CCI-065125 (L)	67.25 - 67.50	1.0000	1.0000
L24	29	CCI-065125 (L)	67.25 - 67.50	1.0000	1.0000
L24	30	CCI-045100 (L)	67.25 - 67.50	1.0000	1.0000
L24	31	CCI-045100 (L)	67.25 - 67.50	1.0000	1.0000
L24	32	CCI-045100 (L)	67.25 - 67.50	1.0000	1.0000
L24	34	HCS 6X12 4AWG(1-5/8)	67.25 - 67.50	1.0000	1.0000
L24	35	OSP6U(1/4)	67.25 - 67.50	1.0000	1.0000
L24	56	Safety Line 3/8	67.25 - 67.50	1.0000	1.0000
L25	15	CCI-060100 (W)	66.33 - 67.25	1.0000	1.0000
L25	16	CCI-060100 (W)	66.33 - 67.25	1.0000	1.0000
L25	17	CCI-060100 (W)	66.33 - 67.25	1.0000	1.0000
L25	25	CCI-085125 (W)	66.33 - 67.25	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L25	26	CCI-085125 (W)	66.33 - 67.25	1.0000	1.0000
L25	27	CCI-065125 (L)	66.33 - 67.25	1.0000	1.0000
L25	28	CCI-065125 (L)	66.33 - 67.25	1.0000	1.0000
L25	29	CCI-065125 (L)	66.33 - 67.25	1.0000	1.0000
L25	30	CCI-045100 (L)	66.33 - 67.25	1.0000	1.0000
L25	31	CCI-045100 (L)	66.33 - 67.25	1.0000	1.0000
L25	32	CCI-045100 (L)	66.33 - 67.25	1.0000	1.0000
L25	34	HCS 6X12 4AWG(1-5/8)	66.33 - 67.25	1.0000	1.0000
L25	35	OSP6U(1/4)	66.33 - 67.25	1.0000	1.0000
L25	56	Safety Line 3/8	66.33 - 67.25	1.0000	1.0000
L26	15	CCI-060100 (W)	66.08 - 66.33	1.0000	1.0000
L26	16	CCI-060100 (W)	66.08 - 66.33	1.0000	1.0000
L26	17	CCI-060100 (W)	66.08 - 66.33	1.0000	1.0000
L26	25	CCI-085125 (W)	66.08 - 66.33	1.0000	1.0000
L26	26	CCI-085125 (W)	66.08 - 66.33	1.0000	1.0000
L26	27	CCI-065125 (L)	66.08 - 66.33	1.0000	1.0000
L26	28	CCI-065125 (L)	66.08 - 66.33	1.0000	1.0000
L26	29	CCI-065125 (L)	66.08 - 66.33	1.0000	1.0000
L26	30	CCI-045100 (L)	66.08 - 66.33	1.0000	1.0000
L26	31	CCI-045100 (L)	66.08 - 66.33	1.0000	1.0000
L26	32	CCI-045100 (L)	66.08 - 66.33	1.0000	1.0000
L26	34	HCS 6X12 4AWG(1-5/8)	66.08 - 66.33	1.0000	1.0000
L26	35	OSP6U(1/4)	66.08 - 66.33	1.0000	1.0000
L26	56	Safety Line 3/8	66.08 - 66.33	1.0000	1.0000
L27	15	CCI-060100 (W)	61.08 - 66.08	1.0000	1.0000
L27	16	CCI-060100 (W)	61.08 - 66.08	1.0000	1.0000
L27	17	CCI-060100 (W)	61.08 - 66.08	1.0000	1.0000
L27	25	CCI-085125 (W)	61.08 - 66.08	1.0000	1.0000
L27	26	CCI-085125 (W)	61.08 - 66.08	1.0000	1.0000
L27	27	CCI-065125 (L)	61.08 - 66.08	1.0000	1.0000
L27	28	CCI-065125 (L)	61.08 - 66.08	1.0000	1.0000
L27	29	CCI-065125 (L)	61.08 - 66.08	1.0000	1.0000
L27	30	CCI-045100 (L)	66.00 - 66.08	1.0000	1.0000
L27	31	CCI-045100 (L)	66.00 - 66.08	1.0000	1.0000
L27	32	CCI-045100 (L)	66.00 - 66.08	1.0000	1.0000
L27	34	HCS 6X12 4AWG(1-5/8)	61.08 - 66.08	1.0000	1.0000
L27	35	OSP6U(1/4)	61.08 - 66.08	1.0000	1.0000
L27	56	Safety Line 3/8	61.08 - 66.08	1.0000	1.0000
L28	5	CCI-060100 (W)	56.50 - 59.00	1.0000	1.0000
L28	6	CCI-060100 (W)	56.50 - 59.00	1.0000	1.0000
L28	7	CCI-060100 (W)	56.50 - 59.00	1.0000	1.0000
L28	15	CCI-060100 (W)	56.50 - 61.08	1.0000	1.0000
L28	16	CCI-060100 (W)	56.50 - 61.08	1.0000	1.0000
L28	17	CCI-060100 (W)	56.50 - 61.08	1.0000	1.0000
L28	25	CCI-085125 (W)	56.50 - 61.08	1.0000	1.0000
L28	26	CCI-085125 (W)	56.50 - 61.08	1.0000	1.0000
L28	27	CCI-065125 (L)	56.50 - 61.08	1.0000	1.0000
L28	28	CCI-065125 (L)	56.50 - 61.08	1.0000	1.0000
L28	29	CCI-065125 (L)	56.50 - 61.08	1.0000	1.0000
L28	34	HCS 6X12 4AWG(1-5/8)	56.50 - 61.08	1.0000	1.0000
L28	35	OSP6U(1/4)	56.50 - 61.08	1.0000	1.0000
L28	56	Safety Line 3/8	56.50 - 61.08	1.0000	1.0000
L29	5	CCI-060100 (W)	56.25 - 56.50	1.0000	1.0000
L29	6	CCI-060100 (W)	56.25 - 56.50	1.0000	1.0000
L29	7	CCI-060100 (W)	56.25 - 56.50	1.0000	1.0000
L29	15	CCI-060100 (W)	56.25 - 56.50	1.0000	1.0000
L29	16	CCI-060100 (W)	56.25 - 56.50	1.0000	1.0000
L29	17	CCI-060100 (W)	56.25 - 56.50	1.0000	1.0000
L29	25	CCI-085125 (W)	56.25 - 56.50	1.0000	1.0000
L29	26	CCI-085125 (W)	56.25 - 56.50	1.0000	1.0000
L29	27	CCI-065125 (L)	56.25 - 56.50	1.0000	1.0000
L29	28	CCI-065125 (L)	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	29	CCI-065125 (L)	56.25 - 56.50	1.0000	1.0000
L29	34	HCS 6X12 4AWG(1-5/8)	56.25 - 56.50	1.0000	1.0000
L29	35	OSP6U(1/4)	56.25 - 56.50	1.0000	1.0000
L29	56	Safety Line 3/8	56.25 - 56.50	1.0000	1.0000
L30	5	CCI-060100 (W)	51.25 - 56.25	1.0000	1.0000
L30	6	CCI-060100 (W)	51.25 - 56.25	1.0000	1.0000
L30	7	CCI-060100 (W)	51.25 - 56.25	1.0000	1.0000
L30	15	CCI-060100 (W)	54.00 - 56.25	1.0000	1.0000
L30	16	CCI-060100 (W)	54.00 - 56.25	1.0000	1.0000
L30	17	CCI-060100 (W)	54.00 - 56.25	1.0000	1.0000
L30	25	CCI-085125 (W)	51.25 - 56.25	1.0000	1.0000
L30	26	CCI-085125 (W)	51.25 - 56.25	1.0000	1.0000
L30	27	CCI-065125 (L)	51.25 - 56.25	1.0000	1.0000
L30	28	CCI-065125 (L)	51.25 - 56.25	1.0000	1.0000
L30	29	CCI-065125 (L)	51.25 - 56.25	1.0000	1.0000
L30	34	HCS 6X12 4AWG(1-5/8)	51.25 - 56.25	1.0000	1.0000
L30	35	OSP6U(1/4)	51.25 - 56.25	1.0000	1.0000
L30	56	Safety Line 3/8	51.25 - 56.25	1.0000	1.0000
L31	5	CCI-060100 (W)	46.25 - 51.25	1.0000	1.0000
L31	6	CCI-060100 (W)	46.25 - 51.25	1.0000	1.0000
L31	7	CCI-060100 (W)	46.25 - 51.25	1.0000	1.0000
L31	25	CCI-085125 (W)	46.25 - 51.25	1.0000	1.0000
L31	26	CCI-085125 (W)	46.25 - 51.25	1.0000	1.0000
L31	27	CCI-065125 (L)	46.25 - 51.25	1.0000	1.0000
L31	28	CCI-065125 (L)	46.25 - 51.25	1.0000	1.0000
L31	29	CCI-065125 (L)	46.25 - 51.25	1.0000	1.0000
L31	34	HCS 6X12 4AWG(1-5/8)	46.25 - 51.25	1.0000	1.0000
L31	35	OSP6U(1/4)	46.25 - 51.25	1.0000	1.0000
L31	56	Safety Line 3/8	46.25 - 51.25	1.0000	1.0000
L32	5	CCI-060100 (W)	39.00 - 46.25	1.0000	1.0000
L32	6	CCI-060100 (W)	39.00 - 46.25	1.0000	1.0000
L32	7	CCI-060100 (W)	39.00 - 46.25	1.0000	1.0000
L32	12	CCI-065125 (L)	36.54 - 40.58	1.0000	1.0000
L32	13	CCI-065125 (L)	36.54 - 40.58	1.0000	1.0000
L32	14	CCI-065125 (L)	36.54 - 40.58	1.0000	1.0000
L32	25	CCI-085125 (W)	36.54 - 46.25	1.0000	1.0000
L32	26	CCI-085125 (W)	36.54 - 46.25	1.0000	1.0000
L32	27	CCI-065125 (L)	40.67 - 46.25	1.0000	1.0000
L32	28	CCI-065125 (L)	40.67 - 46.25	1.0000	1.0000
L32	29	CCI-065125 (L)	40.67 - 46.25	1.0000	1.0000
L32	34	HCS 6X12 4AWG(1-5/8)	36.54 - 46.25	1.0000	1.0000
L32	35	OSP6U(1/4)	36.54 - 46.25	1.0000	1.0000
L32	56	Safety Line 3/8	36.54 - 46.25	1.0000	1.0000
L33	12	CCI-065125 (L)	35.54 - 36.54	1.0000	1.0000
L33	13	CCI-065125 (L)	35.54 - 36.54	1.0000	1.0000
L33	14	CCI-065125 (L)	35.54 - 36.54	1.0000	1.0000
L33	25	CCI-085125 (W)	35.54 - 36.54	1.0000	1.0000
L33	26	CCI-085125 (W)	35.54 - 36.54	1.0000	1.0000
L33	34	HCS 6X12 4AWG(1-5/8)	35.54 - 36.54	1.0000	1.0000
L33	35	OSP6U(1/4)	35.54 - 36.54	1.0000	1.0000
L33	56	Safety Line 3/8	35.54 - 36.54	1.0000	1.0000
L34	12	CCI-065125 (L)	31.25 - 35.54	1.0000	1.0000
L34	13	CCI-065125 (L)	31.25 - 35.54	1.0000	1.0000
L34	14	CCI-065125 (L)	31.25 - 35.54	1.0000	1.0000
L34	22	CCI-085125 (W)	31.25 - 35.00	1.0000	1.0000
L34	23	CCI-085125 (W)	31.25 - 35.00	1.0000	1.0000
L34	24	CCI-085125 (W)	31.25 - 35.00	1.0000	1.0000
L34	25	CCI-085125 (W)	35.00 - 35.54	1.0000	1.0000
L34	26	CCI-085125 (W)	35.00 - 35.54	1.0000	1.0000
L34	34	HCS 6X12 4AWG(1-5/8)	31.25 - 35.54	1.0000	1.0000
L34	35	OSP6U(1/4)	31.25 - 35.54	1.0000	1.0000
L34	56	Safety Line 3/8	31.25 - 35.54	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L35	12	CCI-065125 (L)	31.00 - 31.25	1.0000	1.0000
L35	13	CCI-065125 (L)	31.00 - 31.25	1.0000	1.0000
L35	14	CCI-065125 (L)	31.00 - 31.25	1.0000	1.0000
L35	22	CCI-085125 (W)	31.00 - 31.25	1.0000	1.0000
L35	23	CCI-085125 (W)	31.00 - 31.25	1.0000	1.0000
L35	24	CCI-085125 (W)	31.00 - 31.25	1.0000	1.0000
L35	34	HCS 6X12 4AWG(1-5/8)	31.00 - 31.25	1.0000	1.0000
L35	35	OSP6U(1/4)	31.00 - 31.25	1.0000	1.0000
L35	56	Safety Line 3/8	31.00 - 31.25	1.0000	1.0000
L36	12	CCI-065125 (L)	26.00 - 31.00	1.0000	1.0000
L36	13	CCI-065125 (L)	26.00 - 31.00	1.0000	1.0000
L36	14	CCI-065125 (L)	26.00 - 31.00	1.0000	1.0000
L36	22	CCI-085125 (W)	26.00 - 31.00	1.0000	1.0000
L36	23	CCI-085125 (W)	26.00 - 31.00	1.0000	1.0000
L36	24	CCI-085125 (W)	26.00 - 31.00	1.0000	1.0000
L36	34	HCS 6X12 4AWG(1-5/8)	26.00 - 31.00	1.0000	1.0000
L36	35	OSP6U(1/4)	26.00 - 31.00	1.0000	1.0000
L36	56	Safety Line 3/8	26.00 - 31.00	1.0000	1.0000
L37	10	CCI-065125 (L)	22.00 - 25.50	1.0000	1.0000
L37	12	CCI-065125 (L)	22.00 - 26.00	1.0000	1.0000
L37	13	CCI-065125 (L)	22.00 - 26.00	1.0000	1.0000
L37	14	CCI-065125 (L)	22.00 - 26.00	1.0000	1.0000
L37	22	CCI-085125 (W)	22.00 - 26.00	1.0000	1.0000
L37	23	CCI-085125 (W)	22.00 - 26.00	1.0000	1.0000
L37	24	CCI-085125 (W)	22.00 - 26.00	1.0000	1.0000
L37	34	HCS 6X12 4AWG(1-5/8)	22.00 - 26.00	1.0000	1.0000
L37	35	OSP6U(1/4)	22.00 - 26.00	1.0000	1.0000
L37	56	Safety Line 3/8	22.00 - 26.00	1.0000	1.0000
L38	10	CCI-065125 (L)	21.75 - 22.00	1.0000	1.0000
L38	12	CCI-065125 (L)	21.75 - 22.00	1.0000	1.0000
L38	13	CCI-065125 (L)	21.75 - 22.00	1.0000	1.0000
L38	14	CCI-065125 (L)	21.75 - 22.00	1.0000	1.0000
L38	22	CCI-085125 (W)	21.75 - 22.00	1.0000	1.0000
L38	23	CCI-085125 (W)	21.75 - 22.00	1.0000	1.0000
L38	24	CCI-085125 (W)	21.75 - 22.00	1.0000	1.0000
L38	34	HCS 6X12 4AWG(1-5/8)	21.75 - 22.00	1.0000	1.0000
L38	35	OSP6U(1/4)	21.75 - 22.00	1.0000	1.0000
L38	56	Safety Line 3/8	21.75 - 22.00	1.0000	1.0000
L39	2	CCI-060100 (W)	19.08 - 20.50	1.0000	1.0000
L39	3	CCI-060100 (W)	19.08 - 20.50	1.0000	1.0000
L39	4	CCI-060100 (W)	19.08 - 20.50	1.0000	1.0000
L39	9	CCI-065125 (L)	19.08 - 20.50	1.0000	1.0000
L39	10	CCI-065125 (L)	19.08 - 21.75	1.0000	1.0000
L39	11	CCI-065125 (L)	19.08 - 20.50	1.0000	1.0000
L39	12	CCI-065125 (L)	20.50 - 21.75	1.0000	1.0000
L39	13	CCI-065125 (L)	19.08 - 21.75	1.0000	1.0000
L39	14	CCI-065125 (L)	20.50 - 21.75	1.0000	1.0000
L39	22	CCI-085125 (W)	19.08 - 21.75	1.0000	1.0000
L39	23	CCI-085125 (W)	19.08 - 21.75	1.0000	1.0000
L39	24	CCI-085125 (W)	19.08 - 21.75	1.0000	1.0000
L39	34	HCS 6X12 4AWG(1-5/8)	19.08 - 21.75	1.0000	1.0000
L39	35	OSP6U(1/4)	19.08 - 21.75	1.0000	1.0000
L39	56	Safety Line 3/8	19.08 - 21.75	1.0000	1.0000
L40	2	CCI-060100 (W)	18.83 - 19.08	1.0000	1.0000
L40	3	CCI-060100 (W)	18.83 - 19.08	1.0000	1.0000
L40	4	CCI-060100 (W)	18.83 - 19.08	1.0000	1.0000
L40	9	CCI-065125 (L)	18.83 - 19.08	1.0000	1.0000
L40	10	CCI-065125 (L)	18.83 - 19.08	1.0000	1.0000
L40	11	CCI-065125 (L)	18.83 - 19.08	1.0000	1.0000
L40	13	CCI-065125 (L)	18.83 - 19.08	1.0000	1.0000
L40	22	CCI-085125 (W)	18.83 - 19.08	1.0000	1.0000
L40	23	CCI-085125 (W)	18.83 - 19.08	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L40	24	CCI-085125 (W)	18.83 - 19.08	1.0000	1.0000
L40	34	HCS 6X12 4AWG(1-5/8)	18.83 - 19.08	1.0000	1.0000
L40	35	OSP6U(1/4)	18.83 - 19.08	1.0000	1.0000
L40	56	Safety Line 3/8	18.83 - 19.08	1.0000	1.0000
L41	2	CCI-060100 (W)	18.00 - 18.83	1.0000	1.0000
L41	3	CCI-060100 (W)	18.00 - 18.83	1.0000	1.0000
L41	4	CCI-060100 (W)	18.00 - 18.83	1.0000	1.0000
L41	9	CCI-065125 (L)	18.00 - 18.83	1.0000	1.0000
L41	10	CCI-065125 (L)	18.00 - 18.83	1.0000	1.0000
L41	11	CCI-065125 (L)	18.00 - 18.83	1.0000	1.0000
L41	13	CCI-065125 (L)	18.00 - 18.83	1.0000	1.0000
L41	22	CCI-085125 (W)	18.00 - 18.83	1.0000	1.0000
L41	23	CCI-085125 (W)	18.00 - 18.83	1.0000	1.0000
L41	24	CCI-085125 (W)	18.00 - 18.83	1.0000	1.0000
L41	34	HCS 6X12 4AWG(1-5/8)	18.00 - 18.83	1.0000	1.0000
L41	35	OSP6U(1/4)	18.00 - 18.83	1.0000	1.0000
L41	56	Safety Line 3/8	18.00 - 18.83	1.0000	1.0000
L42	2	CCI-060100 (W)	17.75 - 18.00	1.0000	1.0000
L42	3	CCI-060100 (W)	17.75 - 18.00	1.0000	1.0000
L42	4	CCI-060100 (W)	17.75 - 18.00	1.0000	1.0000
L42	9	CCI-065125 (L)	17.75 - 18.00	1.0000	1.0000
L42	10	CCI-065125 (L)	17.75 - 18.00	1.0000	1.0000
L42	11	CCI-065125 (L)	17.75 - 18.00	1.0000	1.0000
L42	13	CCI-065125 (L)	17.75 - 18.00	1.0000	1.0000
L42	22	CCI-085125 (W)	17.75 - 18.00	1.0000	1.0000
L42	23	CCI-085125 (W)	17.75 - 18.00	1.0000	1.0000
L42	24	CCI-085125 (W)	17.75 - 18.00	1.0000	1.0000
L42	34	HCS 6X12 4AWG(1-5/8)	17.75 - 18.00	1.0000	1.0000
L42	35	OSP6U(1/4)	17.75 - 18.00	1.0000	1.0000
L42	56	Safety Line 3/8	17.75 - 18.00	1.0000	1.0000
L43	2	CCI-060100 (W)	17.00 - 17.75	1.0000	1.0000
L43	3	CCI-060100 (W)	17.00 - 17.75	1.0000	1.0000
L43	4	CCI-060100 (W)	17.00 - 17.75	1.0000	1.0000
L43	9	CCI-065125 (L)	17.00 - 17.75	1.0000	1.0000
L43	10	CCI-065125 (L)	17.00 - 17.75	1.0000	1.0000
L43	11	CCI-065125 (L)	17.00 - 17.75	1.0000	1.0000
L43	13	CCI-065125 (L)	17.00 - 17.75	1.0000	1.0000
L43	22	CCI-085125 (W)	17.00 - 17.75	1.0000	1.0000
L43	23	CCI-085125 (W)	17.00 - 17.75	1.0000	1.0000
L43	24	CCI-085125 (W)	17.00 - 17.75	1.0000	1.0000
L43	34	HCS 6X12 4AWG(1-5/8)	17.00 - 17.75	1.0000	1.0000
L43	35	OSP6U(1/4)	17.00 - 17.75	1.0000	1.0000
L43	56	Safety Line 3/8	17.00 - 17.75	1.0000	1.0000
L44	2	CCI-060100 (W)	16.75 - 17.00	1.0000	1.0000
L44	3	CCI-060100 (W)	16.75 - 17.00	1.0000	1.0000
L44	4	CCI-060100 (W)	16.75 - 17.00	1.0000	1.0000
L44	9	CCI-065125 (L)	16.75 - 17.00	1.0000	1.0000
L44	10	CCI-065125 (L)	16.75 - 17.00	1.0000	1.0000
L44	11	CCI-065125 (L)	16.75 - 17.00	1.0000	1.0000
L44	13	CCI-065125 (L)	16.75 - 17.00	1.0000	1.0000
L44	22	CCI-085125 (W)	16.75 - 17.00	1.0000	1.0000
L44	23	CCI-085125 (W)	16.75 - 17.00	1.0000	1.0000
L44	24	CCI-085125 (W)	16.75 - 17.00	1.0000	1.0000
L44	34	HCS 6X12 4AWG(1-5/8)	16.75 - 17.00	1.0000	1.0000
L44	35	OSP6U(1/4)	16.75 - 17.00	1.0000	1.0000
L44	56	Safety Line 3/8	16.75 - 17.00	1.0000	1.0000
L45	2	CCI-060100 (W)	11.75 - 16.75	1.0000	1.0000
L45	3	CCI-060100 (W)	11.75 - 16.75	1.0000	1.0000
L45	4	CCI-060100 (W)	11.75 - 16.75	1.0000	1.0000
L45	9	CCI-065125 (L)	11.75 - 16.75	1.0000	1.0000
L45	10	CCI-065125 (L)	11.75 - 16.75	1.0000	1.0000
L45	11	CCI-065125 (L)	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	13	CCI-065125 (L)	15.58 - 16.75	1.0000	1.0000
L45	22	CCI-085125 (W)	11.75 - 16.75	1.0000	1.0000
L45	23	CCI-085125 (W)	11.75 - 16.75	1.0000	1.0000
L45	24	CCI-085125 (W)	11.75 - 16.75	1.0000	1.0000
L45	34	HCS 6X12 4AWG(1-5/8)	11.75 - 16.75	1.0000	1.0000
L45	35	OSP6U(1/4)	11.75 - 16.75	1.0000	1.0000
L45	56	Safety Line 3/8	11.75 - 16.75	1.0000	1.0000
L46	2	CCI-060100 (W)	6.75 - 11.75	1.0000	1.0000
L46	3	CCI-060100 (W)	6.75 - 11.75	1.0000	1.0000
L46	4	CCI-060100 (W)	6.75 - 11.75	1.0000	1.0000
L46	9	CCI-065125 (L)	6.75 - 11.75	1.0000	1.0000
L46	10	CCI-065125 (L)	6.75 - 11.75	1.0000	1.0000
L46	11	CCI-065125 (L)	6.75 - 11.75	1.0000	1.0000
L46	22	CCI-085125 (W)	6.75 - 11.75	1.0000	1.0000
L46	23	CCI-085125 (W)	6.75 - 11.75	1.0000	1.0000
L46	24	CCI-085125 (W)	6.75 - 11.75	1.0000	1.0000
L46	34	HCS 6X12 4AWG(1-5/8)	6.75 - 11.75	1.0000	1.0000
L46	35	OSP6U(1/4)	6.75 - 11.75	1.0000	1.0000
L46	56	Safety Line 3/8	6.75 - 11.75	1.0000	1.0000
L47	2	CCI-060100 (W)	4.00 - 6.75	1.0000	1.0000
L47	3	CCI-060100 (W)	4.00 - 6.75	1.0000	1.0000
L47	4	CCI-060100 (W)	4.00 - 6.75	1.0000	1.0000
L47	9	CCI-065125 (L)	4.00 - 6.75	1.0000	1.0000
L47	10	CCI-065125 (L)	4.00 - 6.75	1.0000	1.0000
L47	11	CCI-065125 (L)	4.00 - 6.75	1.0000	1.0000
L47	22	CCI-085125 (W)	4.00 - 6.75	1.0000	1.0000
L47	23	CCI-085125 (W)	4.00 - 6.75	1.0000	1.0000
L47	24	CCI-085125 (W)	4.00 - 6.75	1.0000	1.0000
L47	34	HCS 6X12 4AWG(1-5/8)	4.00 - 6.75	1.0000	1.0000
L47	35	OSP6U(1/4)	4.00 - 6.75	1.0000	1.0000
L47	56	Safety Line 3/8	4.00 - 6.75	1.0000	1.0000
L48	2	CCI-060100 (W)	3.75 - 4.00	1.0000	1.0000
L48	3	CCI-060100 (W)	3.75 - 4.00	1.0000	1.0000
L48	4	CCI-060100 (W)	3.75 - 4.00	1.0000	1.0000
L48	9	CCI-065125 (L)	3.75 - 4.00	1.0000	1.0000
L48	10	CCI-065125 (L)	3.75 - 4.00	1.0000	1.0000
L48	11	CCI-065125 (L)	3.75 - 4.00	1.0000	1.0000
L48	22	CCI-085125 (W)	3.75 - 4.00	1.0000	1.0000
L48	23	CCI-085125 (W)	3.75 - 4.00	1.0000	1.0000
L48	24	CCI-085125 (W)	3.75 - 4.00	1.0000	1.0000
L48	34	HCS 6X12 4AWG(1-5/8)	3.75 - 4.00	1.0000	1.0000
L48	35	OSP6U(1/4)	3.75 - 4.00	1.0000	1.0000
L48	56	Safety Line 3/8	3.75 - 4.00	1.0000	1.0000
L49	2	CCI-060100 (W)	3.00 - 3.75	1.0000	1.0000
L49	3	CCI-060100 (W)	3.00 - 3.75	1.0000	1.0000
L49	4	CCI-060100 (W)	3.00 - 3.75	1.0000	1.0000
L49	9	CCI-065125 (L)	3.00 - 3.75	1.0000	1.0000
L49	10	CCI-065125 (L)	3.00 - 3.75	1.0000	1.0000
L49	11	CCI-065125 (L)	3.00 - 3.75	1.0000	1.0000
L49	22	CCI-085125 (W)	3.00 - 3.75	1.0000	1.0000
L49	23	CCI-085125 (W)	3.00 - 3.75	1.0000	1.0000
L49	24	CCI-085125 (W)	3.00 - 3.75	1.0000	1.0000
L49	34	HCS 6X12 4AWG(1-5/8)	3.00 - 3.75	1.0000	1.0000
L49	35	OSP6U(1/4)	3.00 - 3.75	1.0000	1.0000
L49	56	Safety Line 3/8	3.00 - 3.75	1.0000	1.0000
L50	2	CCI-060100 (W)	2.75 - 3.00	1.0000	1.0000
L50	3	CCI-060100 (W)	2.75 - 3.00	1.0000	1.0000
L50	4	CCI-060100 (W)	2.75 - 3.00	1.0000	1.0000
L50	9	CCI-065125 (L)	2.75 - 3.00	1.0000	1.0000
L50	10	CCI-065125 (L)	2.75 - 3.00	1.0000	1.0000
L50	11	CCI-065125 (L)	2.75 - 3.00	1.0000	1.0000
L50	22	CCI-085125 (W)	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	23	CCI-085125 (W)	2.75 - 3.00	1.0000	1.0000
L50	24	CCI-085125 (W)	2.75 - 3.00	1.0000	1.0000
L50	34	HCS 6X12 4AWG(1-5/8)	2.75 - 3.00	1.0000	1.0000
L50	35	OSP6U(1/4)	2.75 - 3.00	1.0000	1.0000
L50	56	Safety Line 3/8	2.75 - 3.00	1.0000	1.0000
L51	2	CCI-060100 (W)	0.00 - 2.75	1.0000	1.0000
L51	3	CCI-060100 (W)	0.00 - 2.75	1.0000	1.0000
L51	4	CCI-060100 (W)	0.00 - 2.75	1.0000	1.0000
L51	9	CCI-065125 (L)	0.00 - 2.75	1.0000	1.0000
L51	10	CCI-065125 (L)	0.00 - 2.75	1.0000	1.0000
L51	11	CCI-065125 (L)	0.00 - 2.75	1.0000	1.0000
L51	22	CCI-085125 (W)	0.00 - 2.75	1.0000	1.0000
L51	23	CCI-085125 (W)	0.00 - 2.75	1.0000	1.0000
L51	24	CCI-085125 (W)	0.00 - 2.75	1.0000	1.0000
L51	34	HCS 6X12 4AWG(1-5/8)	0.00 - 2.75	1.0000	1.0000
L51	35	OSP6U(1/4)	0.00 - 2.75	1.0000	1.0000
L51	56	Safety Line 3/8	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	30	CCI-045100 (L)	95.00 - 96.00	Auto	0.0000
L8	31	CCI-045100 (L)	95.00 - 96.00	Auto	0.0000
L8	32	CCI-045100 (L)	95.00 - 96.00	Auto	0.0000
L9	30	CCI-045100 (L)	94.50 - 95.00	Auto	0.0000
L9	31	CCI-045100 (L)	94.50 - 95.00	Auto	0.0000
L9	32	CCI-045100 (L)	94.50 - 95.00	Auto	0.0000
L10	30	CCI-045100 (L)	94.25 - 94.50	Auto	0.0000
L10	31	CCI-045100 (L)	94.25 - 94.50	Auto	0.0000
L10	32	CCI-045100 (L)	94.25 - 94.50	Auto	0.0000
L11	18	CCI-045100 (L)	92.08 - 94.08	Auto	0.0000
L11	19	CCI-045100 (L)	92.08 - 94.08	Auto	0.0000
L11	20	CCI-045100 (L)	92.08 - 94.08	Auto	0.0000
L11	30	CCI-045100 (L)	92.08 - 94.25	Auto	0.0000
L11	31	CCI-045100 (L)	92.08 - 94.25	Auto	0.0000
L11	32	CCI-045100 (L)	92.08 - 94.25	Auto	0.0000
L12	18	CCI-045100 (L)	91.83 - 92.08	Auto	0.0192
L12	19	CCI-045100 (L)	91.83 - 92.08	Auto	0.0192
L12	20	CCI-045100 (L)	91.83 - 92.08	Auto	0.0192
L12	30	CCI-045100 (L)	91.83 - 92.08	Auto	0.0192
L12	31	CCI-045100 (L)	91.83 - 92.08	Auto	0.0192
L12	32	CCI-045100 (L)	91.83 - 92.08	Auto	0.0192
L13	18	CCI-045100 (L)	86.83 - 91.83	Auto	0.0000
L13	19	CCI-045100 (L)	86.83 - 91.83	Auto	0.0000
L13	20	CCI-045100 (L)	86.83 - 91.83	Auto	0.0000
L13	30	CCI-045100 (L)	86.83 - 91.83	Auto	0.0000
L13	31	CCI-045100 (L)	86.83 - 91.83	Auto	0.0000
L13	32	CCI-045100 (L)	86.83 - 91.83	Auto	0.0000
L14	18	CCI-045100 (L)	81.83 - 86.83	Auto	0.0000
L14	19	CCI-045100 (L)	81.83 - 86.83	Auto	0.0000
L14	20	CCI-045100 (L)	81.83 - 86.83	Auto	0.0000
L14	30	CCI-045100 (L)	81.83 - 86.83	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L14	31	CCI-045100 (L)	81.83 - 86.83	Auto	0.0000
L14	32	CCI-045100 (L)	81.83 - 86.83	Auto	0.0000
L15	15	CCI-060100 (W)	73.12 - 74.00	Auto	0.0502
L15	16	CCI-060100 (W)	73.12 - 74.00	Auto	0.0502
L15	17	CCI-060100 (W)	73.12 - 74.00	Auto	0.0502
L15	18	CCI-045100 (L)	74.00 - 81.83	Auto	0.0000
L15	19	CCI-045100 (L)	74.00 - 81.83	Auto	0.0000
L15	20	CCI-045100 (L)	74.00 - 81.83	Auto	0.0000
L15	30	CCI-045100 (L)	73.12 - 81.83	Auto	0.0000
L15	31	CCI-045100 (L)	73.12 - 81.83	Auto	0.0000
L15	32	CCI-045100 (L)	73.12 - 81.83	Auto	0.0000
L16	15	CCI-060100 (W)	72.79 - 73.12	Auto	0.1045
L16	16	CCI-060100 (W)	72.79 - 73.12	Auto	0.1045
L16	17	CCI-060100 (W)	72.79 - 73.12	Auto	0.1045
L16	30	CCI-045100 (L)	72.79 - 73.12	Auto	0.0000
L16	31	CCI-045100 (L)	72.79 - 73.12	Auto	0.0000
L16	32	CCI-045100 (L)	72.79 - 73.12	Auto	0.0000
L17	15	CCI-060100 (W)	71.50 - 72.79	Auto	0.0905
L17	16	CCI-060100 (W)	71.50 - 72.79	Auto	0.0905
L17	17	CCI-060100 (W)	71.50 - 72.79	Auto	0.0905
L17	30	CCI-045100 (L)	71.50 - 72.79	Auto	0.0000
L17	31	CCI-045100 (L)	71.50 - 72.79	Auto	0.0000
L17	32	CCI-045100 (L)	71.50 - 72.79	Auto	0.0000
L18	15	CCI-060100 (W)	71.25 - 71.50	Auto	0.1104
L18	16	CCI-060100 (W)	71.25 - 71.50	Auto	0.1104
L18	17	CCI-060100 (W)	71.25 - 71.50	Auto	0.1104
L18	30	CCI-045100 (L)	71.25 - 71.50	Auto	0.0000
L18	31	CCI-045100 (L)	71.25 - 71.50	Auto	0.0000
L18	32	CCI-045100 (L)	71.25 - 71.50	Auto	0.0000
L19	15	CCI-060100 (W)	68.33 - 71.25	Auto	0.0884
L19	16	CCI-060100 (W)	68.33 - 71.25	Auto	0.0884
L19	17	CCI-060100 (W)	68.33 - 71.25	Auto	0.0884
L19	25	CCI-085125 (W)	68.33 - 70.08	Auto	0.3523
L19	26	CCI-085125 (W)	68.33 - 70.80	Auto	0.3549
L19	27	CCI-065125 (L)	68.33 - 70.67	Auto	0.1558
L19	28	CCI-065125 (L)	68.33 - 70.67	Auto	0.1558
L19	29	CCI-065125 (L)	68.33 - 70.67	Auto	0.1558
L19	30	CCI-045100 (L)	68.33 - 71.25	Auto	0.0000
L19	31	CCI-045100 (L)	68.33 - 71.25	Auto	0.0000
L19	32	CCI-045100 (L)	68.33 - 71.25	Auto	0.0000
L20	15	CCI-060100 (W)	68.08 - 68.33	Auto	0.0776
L20	16	CCI-060100 (W)	68.08 - 68.33	Auto	0.0776
L20	17	CCI-060100 (W)	68.08 - 68.33	Auto	0.0776
L20	25	CCI-085125 (W)	68.08 - 68.33	Auto	0.3489
L20	26	CCI-085125 (W)	68.08 - 68.33	Auto	0.3489
L20	27	CCI-065125 (L)	68.08 - 68.33	Auto	0.1486
L20	28	CCI-065125 (L)	68.08 - 68.33	Auto	0.1486
L20	29	CCI-065125 (L)	68.08 - 68.33	Auto	0.1486
L20	30	CCI-045100 (L)	68.08 - 68.33	Auto	0.0000
L20	31	CCI-045100 (L)	68.08 - 68.33	Auto	0.0000
L20	32	CCI-045100 (L)	68.08 - 68.33	Auto	0.0000
L21	15	CCI-060100 (W)	67.92 - 68.08	Auto	0.0755
L21	16	CCI-060100 (W)	67.92 - 68.08	Auto	0.0755
L21	17	CCI-060100 (W)	67.92 - 68.08	Auto	0.0755
L21	25	CCI-085125 (W)	67.92 - 68.08	Auto	0.3474
L21	26	CCI-085125 (W)	67.92 - 68.08	Auto	0.3474
L21	27	CCI-065125 (L)	67.92 - 68.08	Auto	0.1466
L21	28	CCI-065125 (L)	67.92 - 68.08	Auto	0.1466
L21	29	CCI-065125 (L)	67.92 - 68.08	Auto	0.1466
L21	30	CCI-045100 (L)	67.92 - 68.08	Auto	0.0000
L21	31	CCI-045100 (L)	67.92 - 68.08	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L21	32	CCI-045100 (L)	67.92 - 68.08	Auto	0.0000
L22	15	CCI-060100 (W)	67.67 - 67.92	Auto	0.2297
L22	16	CCI-060100 (W)	67.67 - 67.92	Auto	0.2297
L22	17	CCI-060100 (W)	67.67 - 67.92	Auto	0.2297
L22	25	CCI-085125 (W)	67.67 - 67.92	Auto	0.4562
L22	26	CCI-085125 (W)	67.67 - 67.92	Auto	0.4562
L22	27	CCI-065125 (L)	67.67 - 67.92	Auto	0.2889
L22	28	CCI-065125 (L)	67.67 - 67.92	Auto	0.2889
L22	29	CCI-065125 (L)	67.67 - 67.92	Auto	0.2889
L22	30	CCI-045100 (L)	67.67 - 67.92	Auto	0.0000
L22	31	CCI-045100 (L)	67.67 - 67.92	Auto	0.0000
L22	32	CCI-045100 (L)	67.67 - 67.92	Auto	0.0000
L23	15	CCI-060100 (W)	67.50 - 67.67	Auto	0.2275
L23	16	CCI-060100 (W)	67.50 - 67.67	Auto	0.2275
L23	17	CCI-060100 (W)	67.50 - 67.67	Auto	0.2275
L23	25	CCI-085125 (W)	67.50 - 67.67	Auto	0.4547
L23	26	CCI-085125 (W)	67.50 - 67.67	Auto	0.4547
L23	27	CCI-065125 (L)	67.50 - 67.67	Auto	0.2869
L23	28	CCI-065125 (L)	67.50 - 67.67	Auto	0.2869
L23	29	CCI-065125 (L)	67.50 - 67.67	Auto	0.2869
L23	30	CCI-045100 (L)	67.50 - 67.67	Auto	0.0000
L23	31	CCI-045100 (L)	67.50 - 67.67	Auto	0.0000
L23	32	CCI-045100 (L)	67.50 - 67.67	Auto	0.0000
L24	15	CCI-060100 (W)	67.25 - 67.50	Auto	0.1360
L24	16	CCI-060100 (W)	67.25 - 67.50	Auto	0.1360
L24	17	CCI-060100 (W)	67.25 - 67.50	Auto	0.1360
L24	25	CCI-085125 (W)	67.25 - 67.50	Auto	0.3901
L24	26	CCI-085125 (W)	67.25 - 67.50	Auto	0.3901
L24	27	CCI-065125 (L)	67.25 - 67.50	Auto	0.2025
L24	28	CCI-065125 (L)	67.25 - 67.50	Auto	0.2025
L24	29	CCI-065125 (L)	67.25 - 67.50	Auto	0.2025
L24	30	CCI-045100 (L)	67.25 - 67.50	Auto	0.0000
L24	31	CCI-045100 (L)	67.25 - 67.50	Auto	0.0000
L24	32	CCI-045100 (L)	67.25 - 67.50	Auto	0.0000
L25	15	CCI-060100 (W)	66.33 - 67.25	Auto	0.1244
L25	16	CCI-060100 (W)	66.33 - 67.25	Auto	0.1244
L25	17	CCI-060100 (W)	66.33 - 67.25	Auto	0.1244
L25	25	CCI-085125 (W)	66.33 - 67.25	Auto	0.3819
L25	26	CCI-085125 (W)	66.33 - 67.25	Auto	0.3819
L25	27	CCI-065125 (L)	66.33 - 67.25	Auto	0.1918
L25	28	CCI-065125 (L)	66.33 - 67.25	Auto	0.1918
L25	29	CCI-065125 (L)	66.33 - 67.25	Auto	0.1918
L25	30	CCI-045100 (L)	66.33 - 67.25	Auto	0.0000
L25	31	CCI-045100 (L)	66.33 - 67.25	Auto	0.0000
L25	32	CCI-045100 (L)	66.33 - 67.25	Auto	0.0000
L26	15	CCI-060100 (W)	66.08 - 66.33	Auto	0.1909
L26	16	CCI-060100 (W)	66.08 - 66.33	Auto	0.1909
L26	17	CCI-060100 (W)	66.08 - 66.33	Auto	0.1909
L26	25	CCI-085125 (W)	66.08 - 66.33	Auto	0.4289
L26	26	CCI-085125 (W)	66.08 - 66.33	Auto	0.4289
L26	27	CCI-065125 (L)	66.08 - 66.33	Auto	0.2532
L26	28	CCI-065125 (L)	66.08 - 66.33	Auto	0.2532
L26	29	CCI-065125 (L)	66.08 - 66.33	Auto	0.2532
L26	30	CCI-045100 (L)	66.08 - 66.33	Auto	0.0000
L26	31	CCI-045100 (L)	66.08 - 66.33	Auto	0.0000
L26	32	CCI-045100 (L)	66.08 - 66.33	Auto	0.0000
L27	15	CCI-060100 (W)	61.08 - 66.08	Auto	0.1415
L27	16	CCI-060100 (W)	61.08 - 66.08	Auto	0.1415
L27	17	CCI-060100 (W)	61.08 - 66.08	Auto	0.1415
L27	25	CCI-085125 (W)	61.08 - 66.08	Auto	0.3940
L27	26	CCI-085125 (W)	61.08 - 66.08	Auto	0.3940

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L27	27	CCI-065125 (L)	61.08 - 66.08	Auto	0.2075
L27	28	CCI-065125 (L)	61.08 - 66.08	Auto	0.2075
L27	29	CCI-065125 (L)	61.08 - 66.08	Auto	0.2075
L27	30	CCI-045100 (L)	66.00 - 66.08	Auto	0.0000
L27	31	CCI-045100 (L)	66.00 - 66.08	Auto	0.0000
L27	32	CCI-045100 (L)	66.00 - 66.08	Auto	0.0000
L28	5	CCI-060100 (W)	56.50 - 59.00	Auto	0.0699
L28	6	CCI-060100 (W)	56.50 - 59.00	Auto	0.0699
L28	7	CCI-060100 (W)	56.50 - 59.00	Auto	0.0699
L28	15	CCI-060100 (W)	56.50 - 61.08	Auto	0.0807
L28	16	CCI-060100 (W)	56.50 - 61.08	Auto	0.0807
L28	17	CCI-060100 (W)	56.50 - 61.08	Auto	0.0807
L28	25	CCI-085125 (W)	56.50 - 61.08	Auto	0.3511
L28	26	CCI-085125 (W)	56.50 - 61.08	Auto	0.3511
L28	27	CCI-065125 (L)	56.50 - 61.08	Auto	0.1514
L28	28	CCI-065125 (L)	56.50 - 61.08	Auto	0.1514
L28	29	CCI-065125 (L)	56.50 - 61.08	Auto	0.1514
L29	5	CCI-060100 (W)	56.25 - 56.50	Auto	0.0557
L29	6	CCI-060100 (W)	56.25 - 56.50	Auto	0.0557
L29	7	CCI-060100 (W)	56.25 - 56.50	Auto	0.0557
L29	15	CCI-060100 (W)	56.25 - 56.50	Auto	0.0557
L29	16	CCI-060100 (W)	56.25 - 56.50	Auto	0.0557
L29	17	CCI-060100 (W)	56.25 - 56.50	Auto	0.0557
L29	25	CCI-085125 (W)	56.25 - 56.50	Auto	0.3334
L29	26	CCI-085125 (W)	56.25 - 56.50	Auto	0.3334
L29	27	CCI-065125 (L)	56.25 - 56.50	Auto	0.1283
L29	28	CCI-065125 (L)	56.25 - 56.50	Auto	0.1283
L29	29	CCI-065125 (L)	56.25 - 56.50	Auto	0.1283
L30	5	CCI-060100 (W)	51.25 - 56.25	Auto	0.0181
L30	6	CCI-060100 (W)	51.25 - 56.25	Auto	0.0181
L30	7	CCI-060100 (W)	51.25 - 56.25	Auto	0.0181
L30	15	CCI-060100 (W)	54.00 - 56.25	Auto	0.0316
L30	16	CCI-060100 (W)	54.00 - 56.25	Auto	0.0316
L30	17	CCI-060100 (W)	54.00 - 56.25	Auto	0.0316
L30	25	CCI-085125 (W)	51.25 - 56.25	Auto	0.3064
L30	26	CCI-085125 (W)	51.25 - 56.25	Auto	0.3064
L30	27	CCI-065125 (L)	51.25 - 56.25	Auto	0.0930
L30	28	CCI-065125 (L)	51.25 - 56.25	Auto	0.0930
L30	29	CCI-065125 (L)	51.25 - 56.25	Auto	0.0930
L31	5	CCI-060100 (W)	46.25 - 51.25	Auto	0.0000
L31	6	CCI-060100 (W)	46.25 - 51.25	Auto	0.0000
L31	7	CCI-060100 (W)	46.25 - 51.25	Auto	0.0000
L31	25	CCI-085125 (W)	46.25 - 51.25	Auto	0.2620
L31	26	CCI-085125 (W)	46.25 - 51.25	Auto	0.2620
L31	27	CCI-065125 (L)	46.25 - 51.25	Auto	0.0349
L31	28	CCI-065125 (L)	46.25 - 51.25	Auto	0.0349
L31	29	CCI-065125 (L)	46.25 - 51.25	Auto	0.0349
L32	5	CCI-060100 (W)	39.00 - 46.25	Auto	0.0000
L32	6	CCI-060100 (W)	39.00 - 46.25	Auto	0.0000
L32	7	CCI-060100 (W)	39.00 - 46.25	Auto	0.0000
L32	12	CCI-065125 (L)	36.54 - 40.58	Auto	0.0000
L32	13	CCI-065125 (L)	36.54 - 40.58	Auto	0.0000
L32	14	CCI-065125 (L)	36.54 - 40.58	Auto	0.0000
L32	25	CCI-085125 (W)	36.54 - 46.25	Auto	0.2004
L32	26	CCI-085125 (W)	36.54 - 46.25	Auto	0.2004
L32	27	CCI-065125 (L)	40.67 - 46.25	Auto	0.0000
L32	28	CCI-065125 (L)	40.67 - 46.25	Auto	0.0000
L32	29	CCI-065125 (L)	40.67 - 46.25	Auto	0.0000
L33	12	CCI-065125 (L)	35.54 - 36.54	Auto	0.0000
L33	13	CCI-065125 (L)	35.54 - 36.54	Auto	0.0000
L33	14	CCI-065125 (L)	35.54 - 36.54	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L33	25	CCI-085125 (W)	35.54 - 36.54	Auto	0.1573
L33	26	CCI-085125 (W)	35.54 - 36.54	Auto	0.1573
L34	12	CCI-065125 (L)	31.25 - 35.54	Auto	0.0000
L34	13	CCI-065125 (L)	31.25 - 35.54	Auto	0.0000
L34	14	CCI-065125 (L)	31.25 - 35.54	Auto	0.0000
L34	22	CCI-085125 (W)	31.25 - 35.00	Auto	0.1321
L34	23	CCI-085125 (W)	31.25 - 35.00	Auto	0.1321
L34	24	CCI-085125 (W)	31.25 - 35.00	Auto	0.1321
L34	25	CCI-085125 (W)	35.00 - 35.54	Auto	0.1478
L34	26	CCI-085125 (W)	35.00 - 35.54	Auto	0.1478
L35	12	CCI-065125 (L)	31.00 - 31.25	Auto	0.0000
L35	13	CCI-065125 (L)	31.00 - 31.25	Auto	0.0000
L35	14	CCI-065125 (L)	31.00 - 31.25	Auto	0.0000
L35	22	CCI-085125 (W)	31.00 - 31.25	Auto	0.1372
L35	23	CCI-085125 (W)	31.00 - 31.25	Auto	0.1372
L35	24	CCI-085125 (W)	31.00 - 31.25	Auto	0.1372
L36	12	CCI-065125 (L)	26.00 - 31.00	Auto	0.0000
L36	13	CCI-065125 (L)	26.00 - 31.00	Auto	0.0000
L36	14	CCI-065125 (L)	26.00 - 31.00	Auto	0.0000
L36	22	CCI-085125 (W)	26.00 - 31.00	Auto	0.1141
L36	23	CCI-085125 (W)	26.00 - 31.00	Auto	0.1141
L36	24	CCI-085125 (W)	26.00 - 31.00	Auto	0.1141
L37	10	CCI-065125 (L)	22.00 - 25.50	Auto	0.0000
L37	12	CCI-065125 (L)	22.00 - 26.00	Auto	0.0000
L37	13	CCI-065125 (L)	22.00 - 26.00	Auto	0.0000
L37	14	CCI-065125 (L)	22.00 - 26.00	Auto	0.0000
L37	22	CCI-085125 (W)	22.00 - 26.00	Auto	0.0733
L37	23	CCI-085125 (W)	22.00 - 26.00	Auto	0.0733
L37	24	CCI-085125 (W)	22.00 - 26.00	Auto	0.0733
L38	10	CCI-065125 (L)	21.75 - 22.00	Auto	0.0000
L38	12	CCI-065125 (L)	21.75 - 22.00	Auto	0.0000
L38	13	CCI-065125 (L)	21.75 - 22.00	Auto	0.0000
L38	14	CCI-065125 (L)	21.75 - 22.00	Auto	0.0000
L38	22	CCI-085125 (W)	21.75 - 22.00	Auto	0.0933
L38	23	CCI-085125 (W)	21.75 - 22.00	Auto	0.0933
L38	24	CCI-085125 (W)	21.75 - 22.00	Auto	0.0933
L39	2	CCI-060100 (W)	19.08 - 20.50	Auto	0.0000
L39	3	CCI-060100 (W)	19.08 - 20.50	Auto	0.0000
L39	4	CCI-060100 (W)	19.08 - 20.50	Auto	0.0000
L39	9	CCI-065125 (L)	19.08 - 20.50	Auto	0.0000
L39	10	CCI-065125 (L)	19.08 - 21.75	Auto	0.0000
L39	11	CCI-065125 (L)	19.08 - 20.50	Auto	0.0000
L39	12	CCI-065125 (L)	20.50 - 21.75	Auto	0.0000
L39	13	CCI-065125 (L)	19.08 - 21.75	Auto	0.0000
L39	14	CCI-065125 (L)	20.50 - 21.75	Auto	0.0000
L39	22	CCI-085125 (W)	19.08 - 21.75	Auto	0.0787
L39	23	CCI-085125 (W)	19.08 - 21.75	Auto	0.0787
L39	24	CCI-085125 (W)	19.08 - 21.75	Auto	0.0787
L40	2	CCI-060100 (W)	18.83 - 19.08	Auto	0.0000
L40	3	CCI-060100 (W)	18.83 - 19.08	Auto	0.0000
L40	4	CCI-060100 (W)	18.83 - 19.08	Auto	0.0000
L40	9	CCI-065125 (L)	18.83 - 19.08	Auto	0.0000
L40	10	CCI-065125 (L)	18.83 - 19.08	Auto	0.0000
L40	11	CCI-065125 (L)	18.83 - 19.08	Auto	0.0000
L40	13	CCI-065125 (L)	18.83 - 19.08	Auto	0.0000
L40	22	CCI-085125 (W)	18.83 - 19.08	Auto	0.0523
L40	23	CCI-085125 (W)	18.83 - 19.08	Auto	0.0523
L40	24	CCI-085125 (W)	18.83 - 19.08	Auto	0.0523
L41	2	CCI-060100 (W)	18.00 - 18.83	Auto	0.0000
L41	3	CCI-060100 (W)	18.00 - 18.83	Auto	0.0000
L41	4	CCI-060100 (W)	18.00 - 18.83	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L41	9	CCI-065125 (L)	18.00 - 18.83	Auto	0.0000
L41	10	CCI-065125 (L)	18.00 - 18.83	Auto	0.0000
L41	11	CCI-065125 (L)	18.00 - 18.83	Auto	0.0000
L41	13	CCI-065125 (L)	18.00 - 18.83	Auto	0.0000
L41	22	CCI-085125 (W)	18.00 - 18.83	Auto	0.0483
L41	23	CCI-085125 (W)	18.00 - 18.83	Auto	0.0483
L41	24	CCI-085125 (W)	18.00 - 18.83	Auto	0.0483
L42	2	CCI-060100 (W)	17.75 - 18.00	Auto	0.0000
L42	3	CCI-060100 (W)	17.75 - 18.00	Auto	0.0000
L42	4	CCI-060100 (W)	17.75 - 18.00	Auto	0.0000
L42	9	CCI-065125 (L)	17.75 - 18.00	Auto	0.0000
L42	10	CCI-065125 (L)	17.75 - 18.00	Auto	0.0000
L42	11	CCI-065125 (L)	17.75 - 18.00	Auto	0.0000
L42	13	CCI-065125 (L)	17.75 - 18.00	Auto	0.0000
L42	22	CCI-085125 (W)	17.75 - 18.00	Auto	0.0838
L42	23	CCI-085125 (W)	17.75 - 18.00	Auto	0.0838
L42	24	CCI-085125 (W)	17.75 - 18.00	Auto	0.0838
L43	2	CCI-060100 (W)	17.00 - 17.75	Auto	0.0000
L43	3	CCI-060100 (W)	17.00 - 17.75	Auto	0.0000
L43	4	CCI-060100 (W)	17.00 - 17.75	Auto	0.0000
L43	9	CCI-065125 (L)	17.00 - 17.75	Auto	0.0000
L43	10	CCI-065125 (L)	17.00 - 17.75	Auto	0.0000
L43	11	CCI-065125 (L)	17.00 - 17.75	Auto	0.0000
L43	13	CCI-065125 (L)	17.00 - 17.75	Auto	0.0000
L43	22	CCI-085125 (W)	17.00 - 17.75	Auto	0.0801
L43	23	CCI-085125 (W)	17.00 - 17.75	Auto	0.0801
L43	24	CCI-085125 (W)	17.00 - 17.75	Auto	0.0801
L44	2	CCI-060100 (W)	16.75 - 17.00	Auto	0.0000
L44	3	CCI-060100 (W)	16.75 - 17.00	Auto	0.0000
L44	4	CCI-060100 (W)	16.75 - 17.00	Auto	0.0000
L44	9	CCI-065125 (L)	16.75 - 17.00	Auto	0.0000
L44	10	CCI-065125 (L)	16.75 - 17.00	Auto	0.0000
L44	11	CCI-065125 (L)	16.75 - 17.00	Auto	0.0000
L44	13	CCI-065125 (L)	16.75 - 17.00	Auto	0.0000
L44	22	CCI-085125 (W)	16.75 - 17.00	Auto	0.0765
L44	23	CCI-085125 (W)	16.75 - 17.00	Auto	0.0765
L44	24	CCI-085125 (W)	16.75 - 17.00	Auto	0.0765
L45	2	CCI-060100 (W)	11.75 - 16.75	Auto	0.0000
L45	3	CCI-060100 (W)	11.75 - 16.75	Auto	0.0000
L45	4	CCI-060100 (W)	11.75 - 16.75	Auto	0.0000
L45	9	CCI-065125 (L)	11.75 - 16.75	Auto	0.0000
L45	10	CCI-065125 (L)	11.75 - 16.75	Auto	0.0000
L45	11	CCI-065125 (L)	11.75 - 16.75	Auto	0.0000
L45	13	CCI-065125 (L)	15.58 - 16.75	Auto	0.0000
L45	22	CCI-085125 (W)	11.75 - 16.75	Auto	0.0494
L45	23	CCI-085125 (W)	11.75 - 16.75	Auto	0.0494
L45	24	CCI-085125 (W)	11.75 - 16.75	Auto	0.0494
L46	2	CCI-060100 (W)	6.75 - 11.75	Auto	0.0000
L46	3	CCI-060100 (W)	6.75 - 11.75	Auto	0.0000
L46	4	CCI-060100 (W)	6.75 - 11.75	Auto	0.0000
L46	9	CCI-065125 (L)	6.75 - 11.75	Auto	0.0000
L46	10	CCI-065125 (L)	6.75 - 11.75	Auto	0.0000
L46	11	CCI-065125 (L)	6.75 - 11.75	Auto	0.0000
L46	22	CCI-085125 (W)	6.75 - 11.75	Auto	0.0074
L46	23	CCI-085125 (W)	6.75 - 11.75	Auto	0.0074
L46	24	CCI-085125 (W)	6.75 - 11.75	Auto	0.0074
L47	2	CCI-060100 (W)	4.00 - 6.75	Auto	0.0000
L47	3	CCI-060100 (W)	4.00 - 6.75	Auto	0.0000
L47	4	CCI-060100 (W)	4.00 - 6.75	Auto	0.0000
L47	9	CCI-065125 (L)	4.00 - 6.75	Auto	0.0000
L47	10	CCI-065125 (L)	4.00 - 6.75	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L47	11	CCI-065125 (L)	4.00 - 6.75	Auto	0.0000
L47	22	CCI-085125 (W)	4.00 - 6.75	Auto	0.0000
L47	23	CCI-085125 (W)	4.00 - 6.75	Auto	0.0000
L47	24	CCI-085125 (W)	4.00 - 6.75	Auto	0.0000
L48	2	CCI-060100 (W)	3.75 - 4.00	Auto	0.0000
L48	3	CCI-060100 (W)	3.75 - 4.00	Auto	0.0000
L48	4	CCI-060100 (W)	3.75 - 4.00	Auto	0.0000
L48	9	CCI-065125 (L)	3.75 - 4.00	Auto	0.0000
L48	10	CCI-065125 (L)	3.75 - 4.00	Auto	0.0000
L48	11	CCI-065125 (L)	3.75 - 4.00	Auto	0.0000
L48	22	CCI-085125 (W)	3.75 - 4.00	Auto	0.0000
L48	23	CCI-085125 (W)	3.75 - 4.00	Auto	0.0000
L48	24	CCI-085125 (W)	3.75 - 4.00	Auto	0.0000
L49	2	CCI-060100 (W)	3.00 - 3.75	Auto	0.0000
L49	3	CCI-060100 (W)	3.00 - 3.75	Auto	0.0000
L49	4	CCI-060100 (W)	3.00 - 3.75	Auto	0.0000
L49	9	CCI-065125 (L)	3.00 - 3.75	Auto	0.0000
L49	10	CCI-065125 (L)	3.00 - 3.75	Auto	0.0000
L49	11	CCI-065125 (L)	3.00 - 3.75	Auto	0.0000
L49	22	CCI-085125 (W)	3.00 - 3.75	Auto	0.0000
L49	23	CCI-085125 (W)	3.00 - 3.75	Auto	0.0000
L49	24	CCI-085125 (W)	3.00 - 3.75	Auto	0.0000
L50	2	CCI-060100 (W)	2.75 - 3.00	Auto	0.0000
L50	3	CCI-060100 (W)	2.75 - 3.00	Auto	0.0000
L50	4	CCI-060100 (W)	2.75 - 3.00	Auto	0.0000
L50	9	CCI-065125 (L)	2.75 - 3.00	Auto	0.0000
L50	10	CCI-065125 (L)	2.75 - 3.00	Auto	0.0000
L50	11	CCI-065125 (L)	2.75 - 3.00	Auto	0.0000
L50	22	CCI-085125 (W)	2.75 - 3.00	Auto	0.0000
L50	23	CCI-085125 (W)	2.75 - 3.00	Auto	0.0000
L50	24	CCI-085125 (W)	2.75 - 3.00	Auto	0.0000
L51	2	CCI-060100 (W)	0.00 - 2.75	Auto	0.0000
L51	3	CCI-060100 (W)	0.00 - 2.75	Auto	0.0000
L51	4	CCI-060100 (W)	0.00 - 2.75	Auto	0.0000
L51	9	CCI-065125 (L)	0.00 - 2.75	Auto	0.0000
L51	10	CCI-065125 (L)	0.00 - 2.75	Auto	0.0000
L51	11	CCI-065125 (L)	0.00 - 2.75	Auto	0.0000
L51	22	CCI-085125 (W)	0.00 - 2.75	Auto	0.0000
L51	23	CCI-085125 (W)	0.00 - 2.75	Auto	0.0000
L51	24	CCI-085125 (W)	0.00 - 2.75	Auto	0.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
*									
HSS Extension Connection									
HSS - 6x6x5/8 - 11'	A	From Leg	1.000 0.000	0.000	113.170	No Ice 1/2" Ice	10.450 11.240	10.450 11.240	0.465 0.522

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft Vert ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.000			1" Ice	12.037	12.037	0.589
						2" Ice	13.654	13.654	0.752
HSS - 6x6x5/8 - 11'	B	From Leg	1.000	0.000	113.170	No Ice	10.450	10.450	0.465
			0.000			1/2" Ice	11.240	11.240	0.522
			0.000			1" Ice	12.037	12.037	0.589
						2" Ice	13.654	13.654	0.752
HSS - 6x6x5/8 - 11'	C	From Leg	1.000	0.000	113.170	No Ice	10.450	10.450	0.465
			0.000			1/2" Ice	11.240	11.240	0.522
			0.000			1" Ice	12.037	12.037	0.589
						2" Ice	13.654	13.654	0.752
*									
(2) Weldment - 27"x1."x10"	A	From Leg	0.500	0.000	109.000	No Ice	0.375	2.267	0.077
			0.000			1/2" Ice	0.551	2.468	0.088
			0.000			1" Ice	0.721	2.676	0.102
						2" Ice	1.085	3.131	0.138
(2) Weldment - 27"x1."x10"	B	From Leg	0.500	0.000	109.000	No Ice	0.375	2.267	0.077
			0.000			1/2" Ice	0.551	2.468	0.088
			0.000			1" Ice	0.721	2.676	0.102
						2" Ice	1.085	3.131	0.138
(2) Weldment - 27"x1."x10"	C	From Leg	0.500	0.000	109.000	No Ice	0.375	2.267	0.077
			0.000			1/2" Ice	0.551	2.468	0.088
			0.000			1" Ice	0.721	2.676	0.102
						2" Ice	1.085	3.131	0.138
*									
(2) Weldment - 27"x1."x10"	A	From Leg	0.500	0.000	117.000	No Ice	0.375	2.267	0.077
			0.000			1/2" Ice	0.551	2.468	0.088
			0.000			1" Ice	0.721	2.676	0.102
						2" Ice	1.085	3.131	0.138
(2) Weldment - 27"x1."x10"	B	From Leg	0.500	0.000	117.000	No Ice	0.375	2.267	0.077
			0.000			1/2" Ice	0.551	2.468	0.088
			0.000			1" Ice	0.721	2.676	0.102
						2" Ice	1.085	3.131	0.138
(2) Weldment - 27"x1."x10"	C	From Leg	0.500	0.000	117.000	No Ice	0.375	2.267	0.077
			0.000			1/2" Ice	0.551	2.468	0.088
			0.000			1" Ice	0.721	2.676	0.102
						2" Ice	1.085	3.131	0.138
*									
Lightning Rod 5/8" x 4'	C	None		0.000	129.000	No Ice	0.250	0.250	0.031
						1/2" Ice	0.664	0.664	0.034
						1" Ice	0.973	0.973	0.039
						2" Ice	1.494	1.494	0.059
*									
APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Leg	4.000	0.000	125.000	No Ice	14.690	6.870	0.186
			0.000			1/2" Ice	15.460	7.550	0.315
			-1.000			1" Ice	16.230	8.250	0.458
						2" Ice	17.820	9.670	0.788
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Leg	4.000	0.000	125.000	No Ice	14.690	6.870	0.186
			0.000			1/2" Ice	15.460	7.550	0.315
			-1.000			1" Ice	16.230	8.250	0.458
						2" Ice	17.820	9.670	0.788
(2) APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Leg	4.000	0.000	125.000	No Ice	14.690	6.870	0.186
			0.000			1/2" Ice	15.460	7.550	0.315
			-1.000			1" Ice	16.230	8.250	0.458
						2" Ice	17.820	9.670	0.788
IBR 1300_CCIV2 w/ Mount Pipe	A	From Leg	4.000	0.000	125.000	No Ice	0.840	0.619	0.016
			0.000			1/2" Ice	1.010	0.818	0.026
			-2.000			1" Ice	1.193	1.035	0.039

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						2" Ice	1.595	1.522	0.074
AIR6449 B41_T-MOBILE w/ Mount Pipe	A	From Leg	4.000 0.000 -1.000	0.000	125.000	No Ice 1/2" Ice 1" Ice 2" Ice	5.190 5.590 6.020 6.900	2.710 3.040 3.380 4.120	0.128 0.174 0.227 0.354
AIR6449 B41_T-MOBILE w/ Mount Pipe	B	From Leg	4.000 0.000 -1.000	0.000	125.000	No Ice 1/2" Ice 1" Ice 2" Ice	5.190 5.590 6.020 6.900	2.710 3.040 3.380 4.120	0.128 0.174 0.227 0.354
(2) AIR6449 B41_T-MOBILE w/ Mount Pipe	C	From Leg	4.000 0.000 -1.000	0.000	125.000	No Ice 1/2" Ice 1" Ice 2" Ice	5.190 5.590 6.020 6.900	2.710 3.040 3.380 4.120	0.128 0.174 0.227 0.354
RADIO 4449 B71 B85A_T-MOBILE	A	From Leg	4.000 0.000 -1.000	0.000	125.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.970 2.147 2.331 2.721	1.587 1.749 1.918 2.280	0.073 0.093 0.116 0.170
RADIO 4449 B71 B85A_T-MOBILE	B	From Leg	4.000 0.000 -1.000	0.000	125.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.970 2.147 2.331 2.721	1.587 1.749 1.918 2.280	0.073 0.093 0.116 0.170
(2) RADIO 4449 B71 B85A_T-MOBILE	C	From Leg	4.000 0.000 -1.000	0.000	125.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.970 2.147 2.331 2.721	1.587 1.749 1.918 2.280	0.073 0.093 0.116 0.170
RADIO 4460 B2/B25 B66_TMO	A	From Leg	4.000 0.000 -1.000	0.000	125.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.139 2.321 2.511 2.912	1.686 1.850 2.022 2.387	0.109 0.131 0.156 0.217
RADIO 4460 B2/B25 B66_TMO	B	From Leg	4.000 0.000 -1.000	0.000	125.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.139 2.321 2.511 2.912	1.686 1.850 2.022 2.387	0.109 0.131 0.156 0.217
(2) RADIO 4460 B2/B25 B66_TMO	C	From Leg	4.000 0.000 -1.000	0.000	125.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.139 2.321 2.511 2.912	1.686 1.850 2.022 2.387	0.109 0.131 0.156 0.217
(2) 8' x 2" Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	125.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.900 2.728 3.401 4.396	1.900 2.728 3.401 4.396	0.029 0.044 0.063 0.119
(2) 8' x 2" Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	125.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.900 2.728 3.401 4.396	1.900 2.728 3.401 4.396	0.029 0.044 0.063 0.119
(4) 8' x 2" Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	125.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.900 2.728 3.401 4.396	1.900 2.728 3.401 4.396	0.029 0.044 0.063 0.119
Side Arm Mount [SO 701-3]	C	None		0.000	125.000	No Ice 1/2" Ice 1" Ice 2" Ice	3.020 4.180 5.330 7.630	3.020 4.180 5.330 7.630	0.195 0.237 0.279 0.363
Platform Mount [LP 701-1_HR-1]	C	None		0.000	125.000	No Ice 1/2" Ice 1" Ice 2" Ice	55.580 62.440 69.140 82.180	55.580 62.440 69.140 82.180	3.082 4.291 5.677 8.984

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
*									
LNX-8514DS-A1M w/ Mount Pipe	A	From Leg	4.000 0.000 1.000	0.000	116.000	No Ice 1/2" Ice 1" Ice 2" Ice	5.560 6.070 6.590 7.650	4.470 4.970 5.470 6.520	0.084 0.165 0.261 0.494
LNX-8514DS-A1M w/ Mount Pipe	B	From Leg	4.000 0.000 1.000	0.000	116.000	No Ice 1/2" Ice 1" Ice 2" Ice	5.560 6.070 6.590 7.650	4.470 4.970 5.470 6.520	0.084 0.165 0.261 0.494
LNX-8514DS-A1M w/ Mount Pipe	C	From Leg	4.000 0.000 1.000	0.000	116.000	No Ice 1/2" Ice 1" Ice 2" Ice	5.560 6.070 6.590 7.650	4.470 4.970 5.470 6.520	0.084 0.165 0.261 0.494
MT6407-77A w/ Mount Pipe	A	From Leg	4.000 0.000 1.000	0.000	116.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.907 5.256 5.615 6.362	2.682 3.145 3.624 4.631	0.096 0.136 0.180 0.288
MT6407-77A w/ Mount Pipe	B	From Leg	4.000 0.000 1.000	0.000	116.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.907 5.256 5.615 6.362	2.682 3.145 3.624 4.631	0.096 0.136 0.180 0.288
MT6407-77A w/ Mount Pipe	C	From Leg	4.000 0.000 1.000	0.000	116.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.907 5.256 5.615 6.362	2.682 3.145 3.624 4.631	0.096 0.136 0.180 0.288
NHHSS-65B-R2BT4 w/ Mount Pipe	A	From Leg	4.000 0.000 1.000	0.000	116.000	No Ice 1/2" Ice 1" Ice 2" Ice	8.285 8.845 9.370 10.442	7.018 8.199 9.094 10.918	0.076 0.145 0.221 0.402
NHHSS-65B-R2BT4 w/ Mount Pipe	B	From Leg	4.000 0.000 1.000	0.000	116.000	No Ice 1/2" Ice 1" Ice 2" Ice	8.285 8.845 9.370 10.442	7.018 8.199 9.094 10.918	0.076 0.145 0.221 0.402
NHHSS-65B-R2BT4 w/ Mount Pipe	C	From Leg	4.000 0.000 1.000	0.000	116.000	No Ice 1/2" Ice 1" Ice 2" Ice	8.285 8.845 9.370 10.442	7.018 8.199 9.094 10.918	0.076 0.145 0.221 0.402
NHH-65B-R2B w/ Mount Pipe	A	From Leg	4.000 0.000 1.000	0.000	116.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.090 4.480 4.880 5.700	3.290 3.670 4.060 4.860	0.069 0.132 0.205 0.385
NHH-65B-R2B w/ Mount Pipe	B	From Leg	4.000 0.000 1.000	0.000	116.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.090 4.480 4.880 5.700	3.290 3.670 4.060 4.860	0.069 0.132 0.205 0.385
NHH-65B-R2B w/ Mount Pipe	C	From Leg	4.000 0.000 1.000	0.000	116.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.090 4.480 4.880 5.700	3.290 3.670 4.060 4.860	0.069 0.132 0.205 0.385
RF4440D-13A	A	From Leg	4.000 0.000 0.000	0.000	116.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.865 2.035 2.212 2.589	1.129 1.267 1.411 1.723	0.073 0.090 0.110 0.159
RF4440D-13A	B	From Leg	4.000 0.000 0.000	0.000	116.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.865 2.035 2.212 2.589	1.129 1.267 1.411 1.723	0.073 0.090 0.110 0.159

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
RF4440D-13A	C	From Leg	4.000 0.000	0.000	116.000	No Ice 1/2" Ice	1.865 2.035	1.129 1.267	0.073 0.090
			0.000			1" Ice	2.212	1.411	0.110
						2" Ice	2.589	1.723	0.159
RF4439D-25A	A	From Leg	4.000 0.000	0.000	116.000	No Ice 1/2" Ice	1.865 2.035	1.252 1.394	0.075 0.093
			0.000			1" Ice	2.212	1.544	0.114
						2" Ice	2.589	1.866	0.165
RF4439D-25A	B	From Leg	4.000 0.000	0.000	116.000	No Ice 1/2" Ice	1.865 2.035	1.252 1.394	0.075 0.093
			0.000			1" Ice	2.212	1.544	0.114
						2" Ice	2.589	1.866	0.165
RF4439D-25A	C	From Leg	4.000 0.000	0.000	116.000	No Ice 1/2" Ice	1.865 2.035	1.252 1.394	0.075 0.093
			0.000			1" Ice	2.212	1.544	0.114
						2" Ice	2.589	1.866	0.165
CBRS RT4401-48A	A	From Leg	4.000 0.000	0.000	116.000	No Ice 1/2" Ice	0.991 1.120	0.496 0.596	0.019 0.026
			0.000			1" Ice	1.255	0.704	0.036
						2" Ice	1.549	0.942	0.062
CBRS RT4401-48A	B	From Leg	4.000 0.000	0.000	116.000	No Ice 1/2" Ice	0.991 1.120	0.496 0.596	0.019 0.026
			0.000			1" Ice	1.255	0.704	0.036
						2" Ice	1.549	0.942	0.062
CBRS RT4401-48A	C	From Leg	4.000 0.000	0.000	116.000	No Ice 1/2" Ice	0.991 1.120	0.496 0.596	0.019 0.026
			0.000			1" Ice	1.255	0.704	0.036
						2" Ice	1.549	0.942	0.062
RVZDC-6627-PF-48_CCIV2	A	From Leg	4.000 0.000	0.000	116.000	No Ice 1/2" Ice	4.056 4.316	3.098 3.335	0.032 0.068
			0.000			1" Ice	4.582	3.580	0.109
						2" Ice	5.138	4.092	0.203
RVZDC-6627-PF-48_CCIV2	B	From Leg	4.000 0.000	0.000	116.000	No Ice 1/2" Ice	4.056 4.316	3.098 3.335	0.032 0.068
			0.000			1" Ice	4.582	3.580	0.109
						2" Ice	5.138	4.092	0.203
Platform Mount [LP 713-1]	C	None		0.000	116.000	No Ice 1/2" Ice	32.890 35.760	32.890 35.760	1.510 2.228
						1" Ice	38.760	38.760	3.026
						2" Ice	45.260	45.260	4.865
(2) Side Arm Mount [SO 102-3]	C	From Leg	4.000 0.000	0.000	116.000	No Ice 1/2" Ice	3.600 4.180	3.600 4.180	0.075 0.105
			0.000			1" Ice	4.750	4.750	0.135
						2" Ice	5.900	5.900	0.195
Mount Spec Reinforcement	C	None		0.000	116.000	No Ice 1/2" Ice	28.630 37.310	28.630 37.310	0.280 0.670
						1" Ice	45.800	45.800	0.940
						2" Ice	62.380	62.380	1.630
*									
NNVV-65B-R4 w/ Mount Pipe	A	From Leg	4.000 0.000	0.000	105.000	No Ice 1/2" Ice	7.550 8.040	4.230 4.670	0.110 0.197
			0.000			1" Ice	8.530	5.120	0.296
						2" Ice	9.560	6.050	0.529
NNVV-65B-R4 w/ Mount Pipe	B	From Leg	4.000 0.000	0.000	105.000	No Ice 1/2" Ice	7.550 8.040	4.230 4.670	0.110 0.197
			0.000			1" Ice	8.530	5.120	0.296
						2" Ice	9.560	6.050	0.529

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
NNVV-65B-R4 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	105.000	No Ice 1/2" Ice 1" Ice 2" Ice	7.550 8.040 8.530 9.560	4.230 4.670 5.120 6.050	0.110 0.197 0.296 0.529
APXVTM14-ALU-I20 w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	105.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.090 4.480 4.880 5.710	2.860 3.230 3.610 4.400	0.077 0.127 0.185 0.331
APXVTM14-ALU-I20 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	105.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.090 4.480 4.880 5.710	2.860 3.230 3.610 4.400	0.077 0.127 0.185 0.331
APXVTM14-ALU-I20 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	105.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.090 4.480 4.880 5.710	2.860 3.230 3.610 4.400	0.077 0.127 0.185 0.331
PCS 1900MHZ 4X45W-65MHZ	A	From Leg	4.000 0.000 0.000	0.000	105.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.322 2.527 2.739 3.185	2.238 2.441 2.651 3.093	0.060 0.083 0.110 0.173
PCS 1900MHZ 4X45W-65MHZ	B	From Leg	4.000 0.000 0.000	0.000	105.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.322 2.527 2.739 3.185	2.238 2.441 2.651 3.093	0.060 0.083 0.110 0.173
PCS 1900MHZ 4X45W-65MHZ	C	From Leg	4.000 0.000 0.000	0.000	105.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.322 2.527 2.739 3.185	2.238 2.441 2.651 3.093	0.060 0.083 0.110 0.173
(2) RRH2X50-800	A	From Leg	4.000 0.000 0.000	0.000	105.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.701 1.864 2.035 2.398	1.282 1.428 1.580 1.908	0.053 0.070 0.090 0.138
(2) RRH2X50-800	B	From Leg	4.000 0.000 0.000	0.000	105.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.701 1.864 2.035 2.398	1.282 1.428 1.580 1.908	0.053 0.070 0.090 0.138
(2) RRH2X50-800	C	From Leg	4.000 0.000 0.000	0.000	105.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.701 1.864 2.035 2.398	1.282 1.428 1.580 1.908	0.053 0.070 0.090 0.138
FZHN	A	From Leg	4.000 0.000 0.000	0.000	105.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.020 2.197 2.381 2.772	0.607 0.715 0.829 1.089	0.044 0.058 0.075 0.116
FZHN	B	From Leg	4.000 0.000 0.000	0.000	105.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.020 2.197 2.381 2.772	0.607 0.715 0.829 1.089	0.044 0.058 0.075 0.116
FZHN	C	From Leg	4.000 0.000 0.000	0.000	105.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.020 2.197 2.381 2.772	0.607 0.715 0.829 1.089	0.044 0.058 0.075 0.116
(2) 8' x 2" Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	105.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.900 2.728 3.401 4.396	1.900 2.728 3.401 4.396	0.029 0.044 0.063 0.119
(2) 8' x 2" Mount Pipe	B	From Leg	4.000	0.000	105.000	No Ice	1.900	1.900	0.029

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
			0.000			1/2" Ice	2.728	2.728	0.044
			0.000			1" Ice	3.401	3.401	0.063
						2" Ice	4.396	4.396	0.119
(2) 8' x 2" Mount Pipe	C	From Leg	4.000	0.000	105.000	No Ice	1.900	1.900	0.029
			0.000			1/2" Ice	2.728	2.728	0.044
			0.000			1" Ice	3.401	3.401	0.063
						2" Ice	4.396	4.396	0.119
10' x 2.375" Horizontal Mount Pipe	A	From Leg	2.000	0.000	105.000	No Ice	2.380	0.010	0.037
			0.000			1/2" Ice	3.410	0.050	0.054
			0.000			1" Ice	4.450	0.100	0.079
						2" Ice	5.910	0.240	0.147
10' x 2.375" Horizontal Mount Pipe	B	From Leg	2.000	0.000	105.000	No Ice	2.380	0.010	0.037
			0.000			1/2" Ice	3.410	0.050	0.054
			0.000			1" Ice	4.450	0.100	0.079
						2" Ice	5.910	0.240	0.147
10' x 2.375" Horizontal Mount Pipe	C	From Leg	2.000	0.000	105.000	No Ice	2.380	0.010	0.037
			0.000			1/2" Ice	3.410	0.050	0.054
			0.000			1" Ice	4.450	0.100	0.079
						2" Ice	5.910	0.240	0.147
T-Arm Mount [TA 702-3]	C	None		0.000	105.000	No Ice	4.750	4.750	0.339
						1/2" Ice	5.820	5.820	0.432
						1" Ice	6.980	6.980	0.550
						2" Ice	9.720	9.720	0.868
Platform Mount [LP 1201-1_HR-1]	C	None		0.000	105.000	No Ice	26.390	26.390	2.356
						1/2" Ice	31.400	31.400	3.061
						1" Ice	36.200	36.200	3.864
						2" Ice	45.400	45.400	5.764
*									
7770.00 w/ Mount Pipe	A	From Leg	4.000	0.000	94.000	No Ice	3.390	2.320	0.055
			0.000			1/2" Ice	3.750	2.660	0.098
			1.000			1" Ice	4.120	3.020	0.149
						2" Ice	4.890	3.750	0.279
7770.00 w/ Mount Pipe	B	From Leg	4.000	0.000	94.000	No Ice	3.390	2.320	0.055
			0.000			1/2" Ice	3.750	2.660	0.098
			1.000			1" Ice	4.120	3.020	0.149
						2" Ice	4.890	3.750	0.279
7770.00 w/ Mount Pipe	C	From Leg	4.000	0.000	94.000	No Ice	3.390	2.320	0.055
			0.000			1/2" Ice	3.750	2.660	0.098
			1.000			1" Ice	4.120	3.020	0.149
						2" Ice	4.890	3.750	0.279
HPA65R-BU8A w/ Mount Pipe	A	From Leg	4.000	0.000	94.000	No Ice	8.100	6.940	0.087
			0.000			1/2" Ice	8.860	7.690	0.170
			1.000			1" Ice	9.640	8.450	0.266
						2" Ice	11.240	10.030	0.500
HPA65R-BU8A w/ Mount Pipe	B	From Leg	4.000	0.000	94.000	No Ice	8.100	6.940	0.087
			0.000			1/2" Ice	8.860	7.690	0.170
			1.000			1" Ice	9.640	8.450	0.266
						2" Ice	11.240	10.030	0.500
HPA65R-BU8A w/ Mount Pipe	C	From Leg	4.000	0.000	94.000	No Ice	8.100	6.940	0.087
			0.000			1/2" Ice	8.860	7.690	0.170
			1.000			1" Ice	9.640	8.450	0.266
						2" Ice	11.240	10.030	0.500
80010966 w/ Mount Pipe	A	From Leg	4.000	0.000	94.000	No Ice	14.610	6.840	0.159
			0.000			1/2" Ice	15.470	7.630	0.267
			1.000			1" Ice	16.350	8.420	0.389
						2" Ice	18.140	10.060	0.677
80010966 w/ Mount Pipe	B	From Leg	4.000	0.000	94.000	No Ice	14.610	6.840	0.159

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft	Offsets: Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.000				1/2" Ice	15.470	7.630	0.267
			1.000				1" Ice	16.350	8.420	0.389
							2" Ice	18.140	10.060	0.677
80010966 w/ Mount Pipe	C	From Leg	4.000		0.000	94.000	No Ice	14.610	6.840	0.159
			0.000				1/2" Ice	15.470	7.630	0.267
			1.000				1" Ice	16.350	8.420	0.389
							2" Ice	18.140	10.060	0.677
LGP13519	A	From Leg	4.000		0.000	94.000	No Ice	0.290	0.181	0.005
			0.000				1/2" Ice	0.362	0.241	0.008
			1.000				1" Ice	0.441	0.310	0.012
							2" Ice	0.622	0.473	0.024
LGP13519	B	From Leg	4.000		0.000	94.000	No Ice	0.290	0.181	0.005
			0.000				1/2" Ice	0.362	0.241	0.008
			1.000				1" Ice	0.441	0.310	0.012
							2" Ice	0.622	0.473	0.024
LGP13519	C	From Leg	4.000		0.000	94.000	No Ice	0.290	0.181	0.005
			0.000				1/2" Ice	0.362	0.241	0.008
			1.000				1" Ice	0.441	0.310	0.012
							2" Ice	0.622	0.473	0.024
RRUS 4449 B5/B12	A	From Leg	4.000		0.000	94.000	No Ice	1.968	1.408	0.071
			0.000				1/2" Ice	2.144	1.564	0.090
			1.000				1" Ice	2.328	1.727	0.111
							2" Ice	2.718	2.075	0.163
RRUS 4449 B5/B12	B	From Leg	4.000		0.000	94.000	No Ice	1.968	1.408	0.071
			0.000				1/2" Ice	2.144	1.564	0.090
			1.000				1" Ice	2.328	1.727	0.111
							2" Ice	2.718	2.075	0.163
RRUS 4449 B5/B12	C	From Leg	4.000		0.000	94.000	No Ice	1.968	1.408	0.071
			0.000				1/2" Ice	2.144	1.564	0.090
			1.000				1" Ice	2.328	1.727	0.111
							2" Ice	2.718	2.075	0.163
(2) RRUS 8843 B2/B66A	A	From Leg	4.000		0.000	94.000	No Ice	1.639	1.353	0.072
			0.000				1/2" Ice	1.799	1.500	0.090
			1.000				1" Ice	1.966	1.655	0.110
							2" Ice	2.323	1.986	0.159
(2) RRUS 8843 B2/B66A	B	From Leg	4.000		0.000	94.000	No Ice	1.639	1.353	0.072
			0.000				1/2" Ice	1.799	1.500	0.090
			1.000				1" Ice	1.966	1.655	0.110
							2" Ice	2.323	1.986	0.159
RRUS 8843 B2/B66A	C	From Leg	4.000		0.000	94.000	No Ice	1.639	1.353	0.072
			0.000				1/2" Ice	1.799	1.500	0.090
			1.000				1" Ice	1.966	1.655	0.110
							2" Ice	2.323	1.986	0.159
DC6-48-60-18-8F	A	From Leg	1.000		0.000	94.000	No Ice	0.917	0.917	0.019
			0.000				1/2" Ice	1.458	1.458	0.037
			1.000				1" Ice	1.643	1.643	0.057
							2" Ice	2.042	2.042	0.105
DC6-48-60-18-8F	B	From Leg	1.000		0.000	94.000	No Ice	0.917	0.917	0.019
			0.000				1/2" Ice	1.458	1.458	0.037
			1.000				1" Ice	1.643	1.643	0.057
							2" Ice	2.042	2.042	0.105
4' x 2" Pipe Mount	A	From Leg	1.000		0.000	94.000	No Ice	0.785	0.785	0.029
			0.000				1/2" Ice	1.028	1.028	0.035
			0.000				1" Ice	1.281	1.281	0.044
							2" Ice	1.814	1.814	0.072
4' x 2" Pipe Mount	B	From Leg	1.000		0.000	94.000	No Ice	0.785	0.785	0.029
			0.000				1/2" Ice	1.028	1.028	0.035

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.000			1" Ice	1.281	1.281	0.044
						2" Ice	1.814	1.814	0.072
4' x 2" Pipe Mount	C	From Leg	1.000	0.000	94.000	No Ice	0.785	0.785	0.029
			0.000			1/2" Ice	1.028	1.028	0.035
			0.000			1" Ice	1.281	1.281	0.044
						2" Ice	1.814	1.814	0.072
8' x 2" Mount Pipe	A	From Leg	4.000	0.000	94.000	No Ice	1.900	1.900	0.029
			0.000			1/2" Ice	2.728	2.728	0.044
			0.000			1" Ice	3.401	3.401	0.063
						2" Ice	4.396	4.396	0.119
8' x 2" Mount Pipe	B	From Leg	4.000	0.000	94.000	No Ice	1.900	1.900	0.029
			0.000			1/2" Ice	2.728	2.728	0.044
			0.000			1" Ice	3.401	3.401	0.063
						2" Ice	4.396	4.396	0.119
8' x 2" Mount Pipe	C	From Leg	4.000	0.000	94.000	No Ice	1.900	1.900	0.029
			0.000			1/2" Ice	2.728	2.728	0.044
			0.000			1" Ice	3.401	3.401	0.063
						2" Ice	4.396	4.396	0.119
Miscellaneous [NA 510-1]	C	None		0.000	94.000	No Ice	6.360	6.360	0.256
						1/2" Ice	8.520	8.520	0.344
						1" Ice	10.620	10.620	0.459
						2" Ice	14.640	14.640	0.769
Platform Mount [LP 714-1_KCKR]	C	None		0.000	94.000	No Ice	48.730	48.730	1.875
						1/2" Ice	55.920	55.920	2.913
						1" Ice	63.280	63.280	4.056
						2" Ice	78.530	78.530	6.667
*									
GPS_A	C	From Leg	6.000	0.000	60.000	No Ice	0.255	0.255	0.001
			0.000			1/2" Ice	0.320	0.320	0.005
			0.000			1" Ice	0.393	0.393	0.010
						2" Ice	0.561	0.561	0.025
4' x 2" Pipe Mount	C	From Leg	6.000	0.000	60.000	No Ice	0.785	0.785	0.029
			0.000			1/2" Ice	1.028	1.028	0.035
			0.000			1" Ice	1.281	1.281	0.044
						2" Ice	1.814	1.814	0.072
Side Arm Mount [SO 702-1]	C	From Leg	3.000	0.000	60.000	No Ice	0.620	1.490	0.027
			0.000			1/2" Ice	0.740	2.070	0.042
			0.000			1" Ice	0.890	2.540	0.063
						2" Ice	1.250	3.550	0.122
*									

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

Comb. No.	Description
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	26	0.000	-0.000	0.000
			Max. Compression	26	-14.885	6.107	-3.292
			Max. Mx	36	-14.823	7.720	-3.283
			Max. My	14	-6.366	2.434	-5.989
			Max. Vy	20	-7.015	7.276	-1.335
			Max. Vx	14	6.757	2.434	-5.989
			Max. Torque	24			3.092
L2	124 - 119	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-15.641	6.241	-3.554

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Mx	20	-6.697	43.770	-2.361
			Max. My	14	-6.829	3.410	-40.422
			Max. Vy	20	-7.582	43.770	-2.361
			Max. Vx	14	6.983	3.410	-40.422
			Max. Torque	24			3.092
L3	119 - 115.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-27.882	7.130	-4.199
			Max. Mx	20	-10.999	77.410	-3.354
			Max. My	14	-11.221	4.576	-71.355
			Max. Vy	20	-14.680	77.410	-3.354
			Max. Vx	14	13.821	4.576	-71.355
			Max. Torque	24			4.045
L4	115.5 - 115	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-27.969	7.150	-4.232
			Max. Mx	20	-11.056	84.763	-3.455
			Max. My	14	-11.283	4.672	-78.278
			Max. Vy	20	-14.736	84.763	-3.455
			Max. Vx	14	13.842	4.672	-78.278
			Max. Torque	24			4.045
L5	115 - 110	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-30.946	7.341	-4.562
			Max. Mx	20	-12.993	164.827	-4.465
			Max. My	14	-13.255	5.625	-153.315
			Max. Vy	20	-16.875	164.827	-4.465
			Max. Vx	14	15.723	5.625	-153.315
			Max. Torque	24			4.045
L6	110 - 105	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-32.483	7.496	-4.882
			Max. Mx	20	-14.015	251.839	-5.471
			Max. My	14	-14.291	6.562	-234.043
			Max. Vy	20	-17.748	251.839	-5.471
			Max. Vx	14	16.348	6.562	-234.043
			Max. Torque	24			4.043
L7	105 - 100	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-43.613	7.654	-5.220
			Max. Mx	20	-19.262	362.022	-6.493
			Max. My	14	-19.571	7.508	-336.523
			Max. Vy	20	-22.293	362.022	-6.493
			Max. Vx	14	20.609	7.508	-336.523
			Max. Torque	24			4.040
L8	100 - 95	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-44.456	7.763	-5.534
			Max. Mx	20	-19.952	474.522	-7.498
			Max. My	14	-20.249	8.421	-440.105
			Max. Vy	20	-22.751	474.522	-7.498
			Max. Vx	14	20.821	8.421	-440.105
			Max. Torque	24			4.036
L9	95 - 94.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-44.553	7.772	-5.564
			Max. Mx	20	-20.038	485.897	-7.597
			Max. My	14	-20.331	8.510	-450.520
			Max. Vy	20	-22.785	485.897	-7.597
			Max. Vx	14	20.830	8.510	-450.520
			Max. Torque	24			4.032
L10	94.5 - 94.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-44.615	7.776	-5.580
			Max. Mx	20	-20.091	491.594	-7.647
			Max. My	14	-20.383	8.554	-455.732
			Max. Vy	20	-22.806	491.594	-7.647
			Max. Vx	14	20.838	8.554	-455.732
			Max. Torque	24			4.032

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L11	94.25 - 92.0833	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-56.643	7.062	-5.281
			Max. Mx	20	-24.675	554.458	-7.852
			Max. My	14	-25.009	8.548	-514.375
			Max. Vy	20	-28.761	554.458	-7.852
			Max. Vx	14	26.642	8.548	-514.375
			Max. Torque	24			4.031
L12	92.0833 - 91.8333	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-56.730	7.068	-5.298
			Max. Mx	20	-24.753	561.648	-7.902
			Max. My	14	-25.085	8.592	-521.039
			Max. Vy	20	-28.779	561.648	-7.902
			Max. Vx	14	26.647	8.592	-521.039
			Max. Torque	24			3.742
L13	91.8333 - 86.8333	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-58.467	7.157	-5.617
			Max. Mx	20	-25.964	707.155	-8.898
			Max. My	14	-26.301	9.480	-655.274
			Max. Vy	20	-29.443	707.155	-8.898
			Max. Vx	14	27.018	9.480	-655.274
			Max. Torque	24			3.742
L14	86.8333 - 81.8333	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-60.228	7.233	-5.936
			Max. Mx	20	-27.224	855.908	-9.891
			Max. My	14	-27.559	10.357	-791.298
			Max. Vy	20	-30.090	855.908	-9.891
			Max. Vx	14	27.372	10.357	-791.298
			Max. Torque	24			3.740
L15	81.8333 - 73.125	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-61.672	7.285	-6.197
			Max. Mx	20	-28.270	978.474	-10.692
			Max. My	14	-28.598	11.059	-902.524
			Max. Vy	20	-30.601	978.474	-10.692
			Max. Vx	14	27.652	11.059	-902.524
			Max. Torque	24			3.738
L16	73.125 - 72.792	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-64.738	7.344	-6.515
			Max. Mx	20	-30.542	1133.380	-11.682
			Max. My	14	-30.873	11.925	-1042.051
			Max. Vy	20	-31.376	1133.380	-11.682
			Max. Vx	14	28.121	11.925	-1042.051
			Max. Torque	24			3.736
L17	72.792 - 71.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-65.255	7.357	-6.597
			Max. Mx	20	-30.909	1174.018	-11.938
			Max. My	14	-31.240	12.149	-1078.469
			Max. Vy	20	-31.559	1174.018	-11.938
			Max. Vx	14	28.228	12.149	-1078.469
			Max. Torque	24			3.736
L18	71.5 - 71.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-65.360	7.361	-6.614
			Max. Mx	20	-31.006	1181.907	-11.988
			Max. My	14	-31.334	12.191	-1085.530
			Max. Vy	20	-31.574	1181.907	-11.988
			Max. Vx	14	28.230	12.191	-1085.530

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Torque	24			3.736
L19	71.25 - 68.3333	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-66.719	7.425	-6.816
			Max. Mx	20	-31.906	1274.560	-12.565
			Max. My	14	-32.230	12.693	-1168.246
			Max. Vy	20	-31.989	1274.560	-12.565
			Max. Vx	14	28.464	12.693	-1168.246
			Max. Torque	24			3.735
L20	68.3333 - 68.0833	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-66.848	7.432	-6.833
			Max. Mx	20	-32.014	1282.555	-12.615
			Max. My	14	-32.334	12.735	-1175.366
			Max. Vy	20	-32.004	1282.555	-12.615
			Max. Vx	14	28.464	12.735	-1175.366
			Max. Torque	24			3.735
L21	68.0833 - 67.9167	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-66.934	7.438	-6.845
			Max. Mx	20	-32.074	1287.890	-12.648
			Max. My	14	-32.394	12.764	-1180.114
			Max. Vy	20	-32.025	1287.890	-12.648
			Max. Vx	14	28.476	12.764	-1180.114
			Max. Torque	24			3.735
L22	67.9167 - 67.6667	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-67.080	7.444	-6.861
			Max. Mx	20	-32.176	1295.901	-12.697
			Max. My	14	-32.495	12.807	-1187.243
			Max. Vy	20	-32.063	1295.901	-12.697
			Max. Vx	14	28.504	12.807	-1187.243
			Max. Torque	24			3.735
L23	67.6667 - 67.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-67.177	7.449	-6.873
			Max. Mx	20	-32.245	1301.246	-12.730
			Max. My	14	-32.564	12.835	-1191.999
			Max. Vy	20	-32.087	1301.246	-12.730
			Max. Vx	14	28.522	12.835	-1191.999
			Max. Torque	24			3.735
L24	67.5 - 67.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-67.309	7.455	-6.889
			Max. Mx	20	-32.333	1309.272	-12.780
			Max. My	14	-32.652	12.878	-1199.138
			Max. Vy	20	-32.125	1309.272	-12.780
			Max. Vx	2	-28.547	-6.745	1193.187
			Max. Torque	24			3.734
L25	67.25 - 66.3333	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-67.793	7.479	-6.949
			Max. Mx	20	-32.653	1338.776	-12.962
			Max. My	14	-32.972	13.035	-1225.358
			Max. Vy	20	-32.266	1338.776	-12.962
			Max. Vx	2	-28.629	-6.894	1219.362
			Max. Torque	24			3.734
L26	66.3333 - 66.0833	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-67.947	7.487	-6.967
			Max. Mx	20	-32.773	1346.844	-13.011
			Max. My	14	-33.090	13.078	-1232.522
			Max. Vy	20	-32.294	1346.844	-13.011

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vx	2	-28.649	-6.935	1226.513
			Max. Torque	24			3.734
L27	66.0833 - 61.0833	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-70.890	7.618	-7.301
			Max. Mx	20	-34.974	1510.116	-14.003
			Max. My	14	-35.285	13.931	-1376.947
			Max. Vy	8	33.038	-1503.915	7.663
			Max. Vx	2	-29.214	-7.748	1370.990
			Max. Torque	24			3.734
L28	61.0833 - 56.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-73.850	8.535	-8.074
			Max. Mx	20	-37.095	1663.610	-15.048
			Max. My	14	-37.396	14.984	-1511.756
			Max. Vy	8	33.789	-1656.734	8.039
			Max. Vx	2	-29.702	-8.117	1505.726
			Max. Torque	24			4.286
L29	56.5 - 56.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-74.008	8.543	-8.092
			Max. Mx	20	-37.221	1672.057	-15.093
			Max. My	14	-37.519	15.022	-1519.155
			Max. Vy	8	33.813	-1665.182	8.069
			Max. Vx	2	-29.712	-8.154	1513.143
			Max. Torque	24			4.285
L30	56.25 - 51.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-77.068	8.668	-8.434
			Max. Mx	20	-39.485	1842.883	-16.013
			Max. My	14	-39.771	15.793	-1668.255
			Max. Vy	8	34.546	-1836.026	8.660
			Max. Vx	2	-30.144	-8.894	1662.589
			Max. Torque	24			4.285
L31	51.25 - 46.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-80.086	8.792	-8.780
			Max. Mx	20	-41.792	2017.267	-16.932
			Max. My	14	-42.060	16.558	-1819.445
			Max. Vy	8	35.250	-2010.430	9.245
			Max. Vx	2	-30.558	-9.633	1814.118
			Max. Torque	24			4.284
L32	46.25 - 36.542	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-82.640	8.874	-9.045
			Max. Mx	20	-43.780	2168.215	-17.715
			Max. My	14	-44.030	17.203	-1949.559
			Max. Vy	8	35.830	-2161.397	9.735
			Max. Vx	2	-30.898	-10.261	1944.509
			Max. Torque	24			4.283
L33	36.542 - 35.542	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-88.754	8.989	-9.434
			Max. Mx	20	-48.671	2402.882	-18.904
			Max. My	14	-48.907	18.183	-2150.534
			Max. Vy	8	36.860	-2396.093	10.476
			Max. Vx	2	-31.542	-11.212	2145.905
			Max. Torque	24			4.282
L34	35.542 - 31.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-91.126	8.953	-9.661
			Max. Mx	20	-50.551	2561.810	-19.693
			Max. My	14	-50.757	18.828	-2286.045
			Max. Vy	8	37.254	-2555.042	10.966
			Max. Vx	2	-31.838	-11.845	2281.689
			Max. Torque	24			4.281
L35	31.25 - 31	Pole	Max Tension	1	0.000	0.000	0.000

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	-91.277	8.949	-9.673
			Max. Mx	20	-50.686	2571.119	-19.738
			Max. My	14	-50.887	18.865	-2293.977
			Max. Vy	8	37.259	-2564.353	10.994
			Max. Vx	2	-31.839	-11.882	2289.637
			Max. Torque	24			4.281
L36	31 - 26	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-94.284	8.860	-9.906
			Max. Mx	20	-53.097	2758.508	-20.654
			Max. My	14	-53.268	19.609	-2453.535
			Max. Vy	8	37.735	-2751.768	11.556
			Max. Vx	2	-32.200	-12.616	2449.504
			Max. Torque	24			4.281
L37	26 - 22	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-96.743	8.828	-10.152
			Max. Mx	20	-55.063	2910.035	-21.385
			Max. My	14	-55.205	20.199	-2582.399
			Max. Vy	8	38.084	-2903.318	12.001
			Max. Vx	2	-32.462	-13.202	2578.611
			Max. Torque	24			4.280
L38	22 - 21.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-96.907	8.827	-10.169
			Max. Mx	20	-55.207	2919.552	-21.430
			Max. My	14	-55.344	20.235	-2590.489
			Max. Vy	8	38.089	-2912.837	12.029
			Max. Vx	2	-32.464	-13.239	2586.715
			Max. Torque	24			4.280
L39	21.75 - 19.0833	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-98.684	8.810	-10.339
			Max. Mx	20	-56.595	3021.411	-21.917
			Max. My	14	-56.719	20.627	-2677.034
			Max. Vy	8	38.349	-3014.712	12.322
			Max. Vx	2	-32.663	-13.627	2673.419
			Max. Torque	24			4.280
L40	19.0833 - 18.8333	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-98.846	8.808	-10.356
			Max. Mx	20	-56.735	3030.992	-21.962
			Max. My	14	-56.854	20.663	-2685.172
			Max. Vy	8	38.348	-3024.295	12.349
			Max. Vx	2	-32.659	-13.664	2681.571
			Max. Torque	24			4.279
L41	18.8333 - 18	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-99.386	8.803	-10.409
			Max. Mx	20	-57.141	3062.969	-22.114
			Max. My	14	-57.257	20.784	-2712.327
			Max. Vy	8	38.432	-3056.277	12.440
			Max. Vx	2	-32.723	-13.785	2708.776
			Max. Torque	24			4.279
L42	18 - 17.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-99.566	8.802	-10.426
			Max. Mx	20	-57.293	3072.574	-22.160
			Max. My	14	-57.405	20.821	-2720.483
			Max. Vy	8	38.441	-3065.884	12.468
			Max. Vx	2	-32.728	-13.821	2716.946
			Max. Torque	24			4.279
L43	17.75 - 17	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-100.108	8.796	-10.474
			Max. Mx	20	-57.714	3101.422	-22.296
			Max. My	14	-57.822	20.930	-2744.974

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vy	8	38.517	-3094.736	12.549
			Max. Vx	2	-32.787	-13.930	2741.481
			Max. Torque	24			4.279
L44	17 - 16.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-100.288	8.795	-10.491
			Max. Mx	20	-57.863	3111.049	-22.342
			Max. My	14	-57.968	20.966	-2753.147
			Max. Vy	8	38.530	-3104.364	12.577
			Max. Vx	2	-32.796	-13.967	2749.668
			Max. Torque	24			4.279
L45	16.75 - 11.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-103.847	8.733	-10.884
			Max. Mx	20	-60.704	3304.649	-23.251
			Max. My	14	-60.781	21.691	-2917.435
			Max. Vy	8	38.949	-3297.998	13.116
			Max. Vx	2	-33.129	-14.691	2914.242
			Max. Torque	24			4.279
L46	11.75 - 6.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-107.393	8.664	-11.298
			Max. Mx	20	-63.587	3500.230	-24.158
			Max. My	14	-63.632	22.409	-3083.325
			Max. Vy	8	39.339	-3493.614	13.649
			Max. Vx	2	-33.449	-15.413	3080.408
			Max. Torque	24			4.279
L47	6.75 - 4	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-109.338	8.628	-11.523
			Max. Mx	20	-65.185	3608.627	-24.656
			Max. My	14	-65.214	22.800	-3175.248
			Max. Vy	8	39.560	-3602.031	13.938
			Max. Vx	2	-33.633	-15.808	3172.480
			Max. Torque	24			4.279
L48	4 - 3.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-109.513	8.625	-11.543
			Max. Mx	20	-65.345	3618.510	-24.701
			Max. My	14	-65.367	22.836	-3183.629
			Max. Vy	8	39.555	-3611.916	13.964
			Max. Vx	2	-33.628	-15.844	3180.874
			Max. Torque	24			4.279
L49	3.75 - 3	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-110.035	8.615	-11.604
			Max. Mx	20	-65.772	3648.190	-24.837
			Max. My	14	-65.792	22.942	-3208.796
			Max. Vy	8	39.624	-3641.601	14.043
			Max. Vx	2	-33.686	-15.952	3206.081
			Max. Torque	24			4.279
L50	3 - 2.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-110.214	8.612	-11.624
			Max. Mx	20	-65.928	3658.092	-24.882
			Max. My	14	-65.945	22.977	-3217.193
			Max. Vy	8	39.634	-3651.506	14.069
			Max. Vx	2	-33.694	-15.988	3214.491
			Max. Torque	24			4.279
L51	2.75 - 0	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-112.146	8.581	-11.836
			Max. Mx	20	-67.552	3767.361	-25.379
			Max. My	14	-67.556	23.367	-3309.849
			Max. Vy	8	39.880	-3760.795	14.354
			Max. Vx	2	-33.902	-16.381	3307.291
			Max. Torque	24			4.279

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	36	112.146	9.556	-0.024
	Max. H_x	20	67.568	39.846	-0.142
	Max. H_z	3	50.676	-0.142	33.879
	Max. M_x	2	3307.291	-0.142	33.879
	Max. M_z	8	3760.795	-39.853	0.142
	Max. Torsion	24	4.279	16.826	29.151
	Min. Vert	25	50.676	16.826	29.151
	Min. H_x	9	50.676	-39.853	0.142
	Min. H_z	14	67.568	0.142	-33.749
	Min. M_x	14	-3309.849	0.142	-33.749
	Min. M_z	20	-3767.361	39.846	-0.142
	Min. Torsion	12	-4.278	-16.894	-29.269

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	56.307	-0.000	0.000	4.497	2.836	0.000
1.2 Dead+1.0 Wind 0 deg - No Ice	67.568	0.142	-33.879	-3307.291	-16.381	-3.768
0.9 Dead+1.0 Wind 0 deg - No Ice	50.676	0.142	-33.879	-3269.901	-17.038	-3.698
1.2 Dead+1.0 Wind 30 deg - No Ice	67.568	17.144	-29.417	-2873.755	-1681.289	-2.236
0.9 Dead+1.0 Wind 30 deg - No Ice	50.676	17.144	-29.417	-2841.428	-1662.402	-2.195
1.2 Dead+1.0 Wind 60 deg - No Ice	67.568	32.861	-18.976	-1804.906	-3131.361	0.118
0.9 Dead+1.0 Wind 60 deg - No Ice	50.676	32.861	-18.976	-1785.434	-3096.076	0.120
1.2 Dead+1.0 Wind 90 deg - No Ice	67.568	39.853	-0.142	-14.354	-3760.795	3.024
0.9 Dead+1.0 Wind 90 deg - No Ice	50.676	39.853	-0.142	-15.514	-3718.595	2.984
1.2 Dead+1.0 Wind 120 deg - No Ice	67.568	29.540	16.895	1649.275	-2882.402	3.670
0.9 Dead+1.0 Wind 120 deg - No Ice	50.676	29.540	16.895	1628.622	-2849.529	3.602
1.2 Dead+1.0 Wind 150 deg - No Ice	67.568	16.894	29.269	2864.602	-1646.671	4.278
0.9 Dead+1.0 Wind 150 deg - No Ice	50.676	16.894	29.269	2829.649	-1628.287	4.200
1.2 Dead+1.0 Wind 180 deg - No Ice	67.568	-0.142	33.749	3309.849	23.366	3.740
0.9 Dead+1.0 Wind 180 deg - No Ice	50.676	-0.142	33.749	3269.601	22.126	3.671
1.2 Dead+1.0 Wind 210 deg - No Ice	67.568	-17.074	29.297	2876.943	1683.728	2.210
0.9 Dead+1.0 Wind 210 deg - No Ice	50.676	-17.074	29.297	2841.748	1662.972	2.169

Load Combination	Vertical	$Shear_x$	$Shear_z$	Overturning Moment, M_x	Overturning Moment, M_z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
1.2 Dead+1.0 Wind 240 deg - No Ice	67.568	-32.859	18.975	1815.907	3138.261	-0.116
0.9 Dead+1.0 Wind 240 deg - No Ice	50.676	-32.859	18.975	1793.520	3101.071	-0.119
1.2 Dead+1.0 Wind 270 deg - No Ice	67.568	-39.846	0.142	25.378	3767.361	-2.993
0.9 Dead+1.0 Wind 270 deg - No Ice	50.676	-39.846	0.142	23.636	3723.258	-2.953
1.2 Dead+1.0 Wind 300 deg - No Ice	67.568	-29.454	-16.845	-1634.997	2883.810	-3.642
0.9 Dead+1.0 Wind 300 deg - No Ice	50.676	-29.454	-16.845	-1617.272	2849.068	-3.576
1.2 Dead+1.0 Wind 330 deg - No Ice	67.568	-16.826	-29.151	-2845.821	1649.199	-4.279
0.9 Dead+1.0 Wind 330 deg - No Ice	50.676	-16.826	-29.151	-2813.829	1628.946	-4.201
1.2 Dead+1.0 Ice+1.0 Temp	112.146	-0.000	0.000	11.836	8.581	0.002
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	112.146	0.024	-8.575	-878.453	4.861	-1.166
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	112.146	4.321	-7.438	-761.057	-441.963	-0.696
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	112.146	7.869	-4.544	-456.213	-802.111	0.051
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	112.146	9.557	-0.024	8.139	-965.065	0.877
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	112.146	7.437	4.267	453.844	-764.247	1.129
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	112.146	4.280	7.414	781.140	-435.387	1.326
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	112.146	-0.024	8.575	902.315	12.455	1.168
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	112.146	-4.321	7.438	784.919	459.270	0.698
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	112.146	-7.869	4.543	480.079	819.411	-0.047
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	112.146	-9.556	0.024	15.734	982.297	-0.871
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	112.146	-7.437	-4.267	-429.958	781.548	-1.124
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	112.146	-4.280	-7.414	-757.249	452.696	-1.322
Dead+Wind 0 deg - Service	56.307	0.035	-8.252	-796.808	-1.902	-0.912
Dead+Wind 30 deg - Service	56.307	4.176	-7.165	-691.946	-404.658	-0.541
Dead+Wind 60 deg - Service	56.307	8.004	-4.622	-433.473	-755.613	0.029
Dead+Wind 90 deg - Service	56.307	9.707	-0.035	-0.221	-908.006	0.736
Dead+Wind 120 deg - Service	56.307	7.195	4.115	402.222	-695.219	0.889
Dead+Wind 150 deg - Service	56.307	4.115	7.129	696.201	-396.284	1.039
Dead+Wind 180 deg - Service	56.307	-0.035	8.220	803.902	7.697	0.911
Dead+Wind 210 deg - Service	56.307	-4.159	7.136	699.190	409.347	0.539
Dead+Wind 240 deg - Service	56.307	-8.003	4.622	442.616	761.381	-0.029
Dead+Wind 270 deg - Service	56.307	-9.705	0.035	9.378	913.693	-0.733
Dead+Wind 300 deg - Service	56.307	-7.174	-4.103	-392.277	699.655	-0.887
Dead+Wind 330 deg - Service	56.307	-4.098	-7.100	-685.165	400.996	-1.039

Solution Summary

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX K	PY K	PZ K	PX K	PY K	PZ K	% Error
1	0.000	-56.307	0.000	0.000	56.307	-0.000	0.000%
2	0.142	-67.568	-33.879	-0.142	67.568	33.879	0.000%
3	0.142	-50.676	-33.879	-0.142	50.676	33.879	0.000%
4	17.144	-67.568	-29.417	-17.144	67.568	29.417	0.000%
5	17.144	-50.676	-29.417	-17.144	50.676	29.417	0.000%
6	32.861	-67.568	-18.976	-32.861	67.568	18.976	0.000%
7	32.861	-50.676	-18.976	-32.861	50.676	18.976	0.000%
8	39.853	-67.568	-0.142	-39.853	67.568	0.142	0.000%
9	39.853	-50.676	-0.142	-39.853	50.676	0.142	0.000%
10	29.540	-67.568	16.895	-29.540	67.568	-16.895	0.000%
11	29.540	-50.676	16.895	-29.540	50.676	-16.895	0.000%
12	16.894	-67.568	29.269	-16.894	67.568	-29.269	0.000%
13	16.894	-50.676	29.269	-16.894	50.676	-29.269	0.000%
14	-0.142	-67.568	33.749	0.142	67.568	-33.749	0.000%
15	-0.142	-50.676	33.749	0.142	50.676	-33.749	0.000%
16	-17.074	-67.568	29.297	17.074	67.568	-29.297	0.000%
17	-17.074	-50.676	29.297	17.074	50.676	-29.297	0.000%
18	-32.859	-67.568	18.975	32.859	67.568	-18.975	0.000%
19	-32.859	-50.676	18.975	32.859	50.676	-18.975	0.000%
20	-39.846	-67.568	0.142	39.846	67.568	-0.142	0.000%
21	-39.846	-50.676	0.142	39.846	50.676	-0.142	0.000%
22	-29.454	-67.568	-16.845	29.454	67.568	16.845	0.000%
23	-29.454	-50.676	-16.845	29.454	50.676	16.845	0.000%
24	-16.826	-67.568	-29.151	16.826	67.568	29.151	0.000%
25	-16.826	-50.676	-29.151	16.826	50.676	29.151	0.000%
26	0.000	-112.146	0.000	0.000	112.146	-0.000	0.000%
27	0.024	-112.146	-8.575	-0.024	112.146	8.575	0.000%
28	4.321	-112.146	-7.438	-4.321	112.146	7.438	0.000%
29	7.869	-112.146	-4.544	-7.869	112.146	4.544	0.000%
30	9.557	-112.146	-0.024	-9.557	112.146	0.024	0.000%
31	7.437	-112.146	4.267	-7.437	112.146	-4.267	0.000%
32	4.280	-112.146	7.414	-4.280	112.146	-7.414	0.000%
33	-0.024	-112.146	8.575	0.024	112.146	-8.575	0.000%
34	-4.321	-112.146	7.438	4.321	112.146	-7.438	0.000%
35	-7.869	-112.146	4.543	7.869	112.146	-4.543	0.000%
36	-9.556	-112.146	0.024	9.556	112.146	-0.024	0.000%
37	-7.437	-112.146	-4.267	7.437	112.146	4.267	0.000%
38	-4.280	-112.146	-7.414	4.280	112.146	7.414	0.000%
39	0.035	-56.307	-8.252	-0.035	56.307	8.252	0.000%
40	4.176	-56.307	-7.165	-4.176	56.307	7.165	0.000%
41	8.004	-56.307	-4.622	-8.004	56.307	4.622	0.000%
42	9.707	-56.307	-0.035	-9.707	56.307	0.035	0.000%
43	7.195	-56.307	4.115	-7.195	56.307	-4.115	0.000%
44	4.115	-56.307	7.129	-4.115	56.307	-7.129	0.000%
45	-0.035	-56.307	8.220	0.035	56.307	-8.220	0.000%
46	-4.159	-56.307	7.136	4.159	56.307	-7.136	0.000%
47	-8.003	-56.307	4.622	8.003	56.307	-4.622	0.000%
48	-9.705	-56.307	0.035	9.705	56.307	-0.035	0.000%
49	-7.174	-56.307	-4.103	7.174	56.307	4.103	0.000%
50	-4.098	-56.307	-7.100	4.098	56.307	7.100	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00001919

2	Yes	6	0.00000001	0.00012809
3	Yes	5	0.00000001	0.00098155
4	Yes	7	0.00000001	0.00006332
5	Yes	6	0.00000001	0.00035574
6	Yes	7	0.00000001	0.00007364
7	Yes	6	0.00000001	0.00040945
8	Yes	6	0.00000001	0.00010200
9	Yes	5	0.00000001	0.00077009
10	Yes	7	0.00000001	0.00007024
11	Yes	6	0.00000001	0.00039453
12	Yes	6	0.00000001	0.00099039
13	Yes	6	0.00000001	0.00033608
14	Yes	6	0.00000001	0.00016233
15	Yes	6	0.00000001	0.00005699
16	Yes	7	0.00000001	0.00006960
17	Yes	6	0.00000001	0.00039029
18	Yes	7	0.00000001	0.00007487
19	Yes	6	0.00000001	0.00041521
20	Yes	6	0.00000001	0.00014007
21	Yes	6	0.00000001	0.00004754
22	Yes	7	0.00000001	0.00006044
23	Yes	6	0.00000001	0.00033915
24	Yes	7	0.00000001	0.00007058
25	Yes	6	0.00000001	0.00039700
26	Yes	5	0.00000001	0.00047325
27	Yes	7	0.00000001	0.00020284
28	Yes	7	0.00000001	0.00022995
29	Yes	7	0.00000001	0.00024023
30	Yes	7	0.00000001	0.00021514
31	Yes	7	0.00000001	0.00023919
32	Yes	7	0.00000001	0.00023733
33	Yes	7	0.00000001	0.00021367
34	Yes	7	0.00000001	0.00025420
35	Yes	7	0.00000001	0.00026374
36	Yes	7	0.00000001	0.00022825
37	Yes	7	0.00000001	0.00023980
38	Yes	7	0.00000001	0.00024096
39	Yes	5	0.00000001	0.00013462
40	Yes	5	0.00000001	0.00026774
41	Yes	5	0.00000001	0.00033863
42	Yes	5	0.00000001	0.00012535
43	Yes	5	0.00000001	0.00035526
44	Yes	5	0.00000001	0.00025789
45	Yes	5	0.00000001	0.00014422
46	Yes	5	0.00000001	0.00034462
47	Yes	5	0.00000001	0.00036523
48	Yes	5	0.00000001	0.00013602
49	Yes	5	0.00000001	0.00025705
50	Yes	5	0.00000001	0.00036432

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	129 - 124	20.288	48	1.640	0.019
L2	124 - 119	18.571	48	1.639	0.018
L3	119 - 115.5	16.864	48	1.619	0.016
L4	115.5 - 115	15.686	48	1.592	0.014
L5	115 - 110	15.520	48	1.588	0.014

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L6	110 - 105	13.898	48	1.504	0.011
L7	105 - 100	12.380	48	1.390	0.008
L8	100 - 95	10.996	48	1.250	0.006
L9	95 - 94.5	9.770	48	1.088	0.004
L10	94.5 - 94.25	9.657	48	1.071	0.004
L11	94.25 - 92.0833	9.601	48	1.067	0.004
L12	92.0833 - 91.8333	9.126	48	1.027	0.003
L13	91.8333 - 86.8333	9.073	48	1.024	0.003
L14	86.8333 - 81.8333	8.037	48	0.954	0.003
L15	81.8333 - 73.125	7.078	48	0.877	0.002
L16	77.792 - 72.792	6.363	48	0.811	0.002
L17	72.792 - 71.5	5.534	48	0.769	0.002
L18	71.5 - 71.25	5.328	48	0.750	0.002
L19	71.25 - 68.3333	5.289	48	0.746	0.002
L20	68.3333 - 68.0833	4.846	48	0.704	0.002
L21	68.0833 - 67.9167	4.810	48	0.700	0.002
L22	67.9167 - 67.6667	4.785	48	0.698	0.002
L23	67.6667 - 67.5	4.749	48	0.695	0.002
L24	67.5 - 67.25	4.725	48	0.693	0.002
L25	67.25 - 66.3333	4.688	48	0.690	0.002
L26	66.3333 - 66.0833	4.557	48	0.679	0.002
L27	66.0833 - 61.0833	4.521	48	0.677	0.002
L28	61.0833 - 56.5	3.841	48	0.622	0.001
L29	56.5 - 56.25	3.269	48	0.571	0.001
L30	56.25 - 51.25	3.239	48	0.569	0.001
L31	51.25 - 46.25	2.673	48	0.513	0.001
L32	46.25 - 36.542	2.165	48	0.457	0.001
L33	42 - 35.542	1.780	48	0.409	0.001
L34	35.542 - 31.25	1.253	48	0.364	0.001
L35	31.25 - 31	0.950	48	0.310	0.001
L36	31 - 26	0.934	48	0.308	0.001
L37	26 - 22	0.642	48	0.250	0.000
L38	22 - 21.75	0.452	48	0.204	0.000
L39	21.75 - 19.0833	0.442	48	0.201	0.000
L40	19.0833 - 18.8333	0.337	48	0.174	0.000
L41	18.8333 - 18	0.328	48	0.171	0.000
L42	18 - 17.75	0.299	48	0.163	0.000
L43	17.75 - 17	0.290	48	0.160	0.000
L44	17 - 16.75	0.266	48	0.153	0.000
L45	16.75 - 11.75	0.258	48	0.151	0.000
L46	11.75 - 6.75	0.124	48	0.104	0.000
L47	6.75 - 4	0.039	48	0.058	0.000
L48	4 - 3.75	0.013	48	0.033	0.000
L49	3.75 - 3	0.012	48	0.030	0.000
L50	3 - 2.75	0.007	48	0.024	0.000
L51	2.75 - 0	0.006	48	0.022	0.000

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
129.000	Lightning Rod 5/8" x 4'	48	20.288	1.640	0.019	29763
125.000	APXVAARR24_43-U-NA20 w/ Mount Pipe	48	18.914	1.640	0.018	29763
117.000	(2) Weldment - 27"x1."x10"	48	16.188	1.604	0.015	6463
116.000	LNX-8514DS-A1M w/ Mount Pipe	48	15.853	1.595	0.014	5545

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
113.170	HSS - 6x6x5/8 - 11'	48	14.917	1.565	0.013	3765
109.000	(2) Weldment - 27"x1."x10"	48	13.585	1.483	0.010	2691
105.000	NNVV-65B-R4 w/ Mount Pipe	48	12.380	1.390	0.008	2248
94.000	7770.00 w/ Mount Pipe	48	9.546	1.062	0.004	2445
60.000	GPS_A	48	3.702	0.610	0.001	5199

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	129 - 124	83.234	20	6.673	0.076
L2	124 - 119	76.262	20	6.671	0.074
L3	119 - 115.5	69.317	20	6.607	0.065
L4	115.5 - 115	64.519	20	6.504	0.058
L5	115 - 110	63.840	20	6.489	0.057
L6	110 - 105	57.214	20	6.165	0.044
L7	105 - 100	50.998	20	5.709	0.034
L8	100 - 95	45.317	20	5.141	0.024
L9	95 - 94.5	40.277	20	4.482	0.017
L10	94.5 - 94.25	39.812	20	4.413	0.016
L11	94.25 - 92.0833	39.582	20	4.395	0.016
L12	92.0833 - 91.8333	37.626	20	4.231	0.014
L13	91.8333 - 86.8333	37.405	20	4.218	0.014
L14	86.8333 - 81.8333	33.139	20	3.933	0.012
L15	81.8333 - 73.125	29.187	20	3.617	0.010
L16	77.792 - 72.792	26.241	20	3.347	0.009
L17	72.792 - 71.5	22.823	20	3.173	0.008
L18	71.5 - 71.25	21.976	20	3.092	0.008
L19	71.25 - 68.3333	21.814	20	3.077	0.008
L20	68.3333 - 68.0833	19.989	20	2.902	0.007
L21	68.0833 - 67.9167	19.837	20	2.888	0.007
L22	67.9167 - 67.6667	19.736	20	2.878	0.007
L23	67.6667 - 67.5	19.586	20	2.867	0.007
L24	67.5 - 67.25	19.486	20	2.860	0.007
L25	67.25 - 66.3333	19.337	20	2.848	0.007
L26	66.3333 - 66.0833	18.795	20	2.802	0.007
L27	66.0833 - 61.0833	18.648	20	2.791	0.007
L28	61.0833 - 56.5	15.844	20	2.566	0.006
L29	56.5 - 56.25	13.482	20	2.357	0.005
L30	56.25 - 51.25	13.359	20	2.346	0.005
L31	51.25 - 46.25	11.024	20	2.116	0.004
L32	46.25 - 36.542	8.930	20	1.884	0.004
L33	42 - 35.542	7.342	20	1.686	0.003
L34	35.542 - 31.25	5.170	20	1.502	0.003
L35	31.25 - 31	3.920	20	1.280	0.002
L36	31 - 26	3.853	20	1.269	0.002
L37	26 - 22	2.649	20	1.031	0.002
L38	22 - 21.75	1.866	20	0.840	0.001
L39	21.75 - 19.0833	1.822	20	0.830	0.001
L40	19.0833 - 18.8333	1.390	20	0.718	0.001
L41	18.8333 - 18	1.352	20	0.707	0.001
L42	18 - 17.75	1.232	20	0.671	0.001
L43	17.75 - 17	1.197	20	0.661	0.001
L44	17 - 16.75	1.096	20	0.633	0.001
L45	16.75 - 11.75	1.063	20	0.623	0.001

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L46	11.75 - 6.75	0.512	20	0.430	0.001
L47	6.75 - 4	0.162	20	0.238	0.000
L48	4 - 3.75	0.055	20	0.135	0.000
L49	3.75 - 3	0.048	20	0.126	0.000
L50	3 - 2.75	0.031	20	0.098	0.000
L51	2.75 - 0	0.026	20	0.090	0.000

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
129.000	Lightning Rod 5/8" x 4'	20	83.234	6.673	0.076	10897
125.000	APXVAARR24_43-U-NA20 w/ Mount Pipe	20	77.656	6.674	0.075	10897
117.000	(2) Weldment - 27"x1."x10"	20	66.566	6.550	0.061	1804
116.000	LNX-8514DS-A1M w/ Mount Pipe	20	65.200	6.519	0.059	1526
113.170	HSS - 6x6x5/8 - 11'	20	61.377	6.402	0.053	1006
109.000	(2) Weldment - 27"x1."x10"	20	55.934	6.081	0.042	697
105.000	NNVV-65B-R4 w/ Mount Pipe	20	50.998	5.709	0.034	570
94.000	7770.00 w/ Mount Pipe	20	39.352	4.378	0.016	605
60.000	GPS_A	20	15.268	2.516	0.006	1265

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	5.000	0.000	0.0	18.408	-14.823	579.845	0.026
L2	124 - 119 (2)	TP16x16x0.375	5.000	0.000	0.0	18.408	-6.708	579.845	0.012
L3	119 - 115.5 (3)	TP16x16x0.375	3.500	0.000	0.0	18.408	-11.031	579.845	0.019
L4	115.5 - 115 (4)	TP17.81x17.81x0.375	0.500	0.000	0.0	20.540	-11.090	647.014	0.017
L5	115 - 110 (5)	TP18.943x17.81x0.219	5.000	0.000	0.0	13.189	-13.049	771.556	0.017
L6	110 - 105 (6)	TP20.076x18.943x0.219	5.000	0.000	0.0	13.987	-14.015	818.248	0.017
L7	105 - 100 (7)	TP21.209x20.076x0.219	5.000	0.000	0.0	14.785	-19.262	864.940	0.022
L8	100 - 95 (8)	TP22.343x21.209x0.219	5.000	0.000	0.0	15.583	-19.952	911.631	0.022
L9	95 - 94.5 (9)	TP22.456x22.343x0.219	0.500	0.000	0.0	15.663	-20.038	916.301	0.022
L10	94.5 - 94.25 (10)	TP22.513x22.456x0.438	0.250	0.000	0.0	31.098	-20.091	1819.240	0.011
L11	94.25 - 92.0833 (11)	TP23.004x22.513x0.431	2.167	0.000	0.0	31.344	-24.675	1833.650	0.013
L12	92.0833 - 91.8333 (12)	TP23.06x23.004x0.656	0.250	0.000	0.0	47.342	-24.753	2769.530	0.009
L13	91.8333 - 86.8333 (13)	TP24.193x23.06x0.631	5.000	0.000	0.0	47.893	-25.964	2801.730	0.009
L14	86.8333 - 81.8333 (14)	TP25.326x24.193x0.606	5.000	0.000	0.0	48.257	-27.224	2823.030	0.010
L15	81.8333 -	TP27.3x25.326x0.594	8.708	0.000	0.0	49.037	-28.270	2868.660	0.010

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
	73.125 (15)								
L16	73.125 - 72.792 (16)	TP26.963x25.805x0.688	5.000	0.000	0.0	58.167	-30.542	3402.800	0.009
L17	72.792 - 71.5 (17)	TP27.262x26.963x0.675	1.292	0.000	0.0	57.787	-30.909	3380.570	0.009
L18	71.5 - 71.25 (18)	TP27.32x27.262x0.738	0.250	0.000	0.0	63.127	-31.006	3692.950	0.008
L19	71.25 - 68.3333 (19)	TP27.996x27.32x0.725	2.917	0.000	0.0	63.664	-31.906	3724.330	0.009
L20	68.3333 - 68.0833 (20)	TP28.054x27.996x0.738	0.250	0.000	0.0	64.869	-32.014	3794.850	0.008
L21	68.0833 - 67.9167 (21)	TP28.092x28.054x0.738	0.167	0.000	0.0	64.961	-32.074	3800.220	0.008
L22	67.9167 - 67.6667 (22)	TP28.15x28.092x1.088	0.250	0.000	0.0	94.767	-32.176	5543.870	0.006
L23	67.6667 - 67.5 (23)	TP28.189x28.15x1.088	0.167	0.000	0.0	94.902	-32.245	5551.780	0.006
L24	67.5 - 67.25 (24)	TP28.247x28.189x0.888	0.250	0.000	0.0	78.186	-32.333	4573.880	0.007
L25	67.25 - 66.3333 (25)	TP28.459x28.247x0.875	0.917	0.000	0.0	77.718	-32.653	4546.520	0.007
L26	66.3333 - 66.0833 (26)	TP28.517x28.459x1.038	0.250	0.000	0.0	91.802	-32.773	5370.430	0.006
L27	66.0833 - 61.0833 (27)	TP29.675x28.517x0.988	5.000	0.000	0.0	91.220	-34.974	5336.360	0.007
L28	61.0833 - 56.5 (28)	TP30.737x29.675x0.963	4.583	0.000	0.0	92.278	-37.095	5398.290	0.007
L29	56.5 - 56.25 (29)	TP30.795x30.737x0.963	0.250	0.000	0.0	92.458	-37.221	5408.780	0.007
L30	56.25 - 51.25 (30)	TP31.953x30.795x0.938	5.000	0.000	0.0	93.628	-39.485	5477.250	0.007
L31	51.25 - 46.25 (31)	TP33.111x31.953x0.913	5.000	0.000	0.0	94.608	-41.792	5534.560	0.008
L32	46.25 - 36.542 (32)	TP35.36x33.111x0.888	9.708	0.000	0.0	94.901	-43.780	5551.690	0.008
L33	36.542 - 35.542 (33)	TP34.967x33.471x0.813	6.458	0.000	0.0	89.356	-48.671	5227.320	0.009
L34	35.542 - 31.25 (34)	TP35.961x34.967x0.8	4.292	0.000	0.0	90.575	-50.551	5298.610	0.010
L35	31.25 - 31 (35)	TP36.019x35.961x0.863	0.250	0.000	0.0	97.638	-50.686	5711.820	0.009
L36	31 - 26 (36)	TP37.177x36.019x0.85	5.000	0.000	0.0	99.427	-53.097	5816.500	0.009
L37	26 - 22 (37)	TP38.104x37.177x0.825	4.000	0.000	0.0	99.031	-55.063	5793.310	0.010
L38	22 - 21.75 (38)	TP38.162x38.104x0.938	0.250	0.000	0.0	112.370	-55.206	6573.660	0.008
L39	21.75 - 19.0833 (39)	TP38.779x38.162x0.925	2.667	0.000	0.0	112.749	-56.595	6595.830	0.009
L40	19.0833 - 18.8333 (40)	TP38.837x38.779x0.875	0.250	0.000	0.0	106.959	-56.735	6257.080	0.009
L41	18.8333 - 18 (41)	TP39.03x38.837x0.875	0.833	0.000	0.0	107.503	-57.141	6288.900	0.009
L42	18 - 17.75 (42)	TP39.088x39.03x1	0.250	0.000	0.0	122.644	-57.293	7174.680	0.008
L43	17.75 - 17 (43)	TP39.262x39.088x1	0.750	0.000	0.0	123.203	-57.714	7207.400	0.008
L44	17 - 16.75 (44)	TP39.32x39.262x1	0.250	0.000	0.0	123.390	-57.863	7218.310	0.008
L45	16.75 - 11.75 (45)	TP40.478x39.32x0.975	5.000	0.000	0.0	123.293	-60.154	7212.630	0.008
L46	11.75 - 6.75 (46)	TP41.636x40.478x0.95	5.000	0.000	0.0	120.917	-60.730	7073.620	0.009
L47	6.75 - 4 (47)	TP42.273x41.636x0.95	2.750	0.000	0.0	124.460	-63.618	7280.890	0.009
L48	4 - 3.75 (48)	TP42.331x42.273x0.975	0.250	0.000	0.0	129.656	-65.206	7584.900	0.009
L49	3.75 - 3 (49)	TP42.505x42.331x0.963	0.750	0.000	0.0	128.212	-65.357	7500.420	0.009
L50	3 - 2.75 (50)	TP42.563x42.505x1.075	0.250	0.000	0.0	143.410	-65.785	8389.490	0.008

Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft		ft	ft		in^2	K	K	
L51	2.75 - 0 (51)	TP43.2x42.563x1.075	2.750	0.000	0.0	143.611	-65.946	8401.220	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	8.540	240.372	0.036	0.000	240.372	0.000
L2	124 - 119 (2)	TP16x16x0.375	44.484	240.372	0.185	0.000	240.372	0.000
L3	119 - 115.5 (3)	TP16x16x0.375	78.292	240.372	0.326	0.000	240.372	0.000
L4	115.5 - 115 (4)	TP17.81x17.81x0.375	85.638	299.276	0.286	0.000	299.276	0.000
L5	115 - 110 (5)	TP18.943x17.81x0.219	165.232	364.796	0.453	0.000	364.796	0.000
L6	110 - 105 (6)	TP20.076x18.943x0.219	251.898	402.868	0.625	0.000	402.868	0.000
L7	105 - 100 (7)	TP21.209x20.076x0.219	362.081	441.827	0.820	0.000	441.827	0.000
L8	100 - 95 (8)	TP22.343x21.209x0.219	474.582	481.523	0.986	0.000	481.523	0.000
L9	95 - 94.5 (9)	TP22.456x22.343x0.219	485.957	485.527	1.001	0.000	485.527	0.000
L10	94.5 - 94.25 (10)	TP22.513x22.456x0.438	491.654	1018.858	0.483	0.000	1018.858	0.000
L11	94.25 - 92.0833 (11)	TP23.004x22.513x0.431	554.513	1050.792	0.528	0.000	1050.792	0.000
L12	92.0833 - 91.8333 (12)	TP23.06x23.004x0.656	561.703	1559.683	0.360	0.000	1559.683	0.000
L13	91.8333 - 86.8333 (13)	TP24.193x23.06x0.631	707.211	1663.425	0.425	0.000	1663.425	0.000
L14	86.8333 - 81.8333 (14)	TP25.326x24.193x0.606	855.967	1762.342	0.486	0.000	1762.342	0.000
L15	81.8333 - 73.125 (15)	TP27.3x25.326x0.594	978.533	1860.583	0.526	0.000	1860.583	0.000
L16	73.125 - 72.792 (16)	TP26.963x25.805x0.688	1133.442	2254.325	0.503	0.000	2254.325	0.000
L17	72.792 - 71.5 (17)	TP27.262x26.963x0.675	1174.075	2267.892	0.518	0.000	2267.892	0.000
L18	71.5 - 71.25 (18)	TP27.32x27.262x0.738	1181.967	2471.342	0.478	0.000	2471.342	0.000
L19	71.25 - 68.3333 (19)	TP27.996x27.32x0.725	1274.625	2559.750	0.498	0.000	2559.750	0.000
L20	68.3333 - 68.0833 (20)	TP28.054x27.996x0.738	1282.617	2611.508	0.491	0.000	2611.508	0.000
L21	68.0833 - 67.9167 (21)	TP28.092x28.054x0.738	1287.950	2618.992	0.492	0.000	2618.992	0.000
L22	67.9167 - 67.6667 (22)	TP28.15x28.092x1.088	1295.967	3731.817	0.347	0.000	3731.817	0.000
L23	67.6667 - 67.5 (23)	TP28.189x28.15x1.088	1301.308	3742.683	0.348	0.000	3742.683	0.000
L24	67.5 - 67.25 (24)	TP28.247x28.189x0.888	1309.333	3135.958	0.418	0.000	3135.958	0.000
L25	67.25 - 66.3333 (25)	TP28.459x28.247x0.875	1338.842	3145.008	0.426	0.000	3145.008	0.000
L26	66.3333 - 66.0833 (26)	TP28.517x28.459x1.038	1346.908	3679.333	0.366	0.000	3679.333	0.000
L27	66.0833 - 61.0833 (27)	TP29.675x28.517x0.988	1510.183	3829.033	0.394	0.000	3829.033	0.000
L28	61.0833 - 56.5 (28)	TP30.737x29.675x0.963	1663.675	4028.350	0.413	0.000	4028.350	0.000
L29	56.5 - 56.25 (29)	TP30.795x30.737x0.963	1672.125	4044.283	0.413	0.000	4044.283	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 $\frac{M_{uy}}{\phi M_{ny}}$
L30	56.25 - 51.25 (30)	TP31.953x30.795x0.938	1842.950	4266.325	0.432	0.000	4266.325	0.000
L31	51.25 - 46.25 (31)	TP33.111x31.953x0.913	2017.342	4483.642	0.450	0.000	4483.642	0.000
L32	46.25 - 36.542 (32)	TP35.36x33.111x0.888	2168.292	4645.817	0.467	0.000	4645.817	0.000
L33	36.542 - 35.542 (33)	TP34.967x33.471x0.813	2402.958	4511.892	0.533	0.000	4511.892	0.000
L34	35.542 - 31.25 (34)	TP35.961x34.967x0.8	2561.883	4713.000	0.544	0.000	4713.000	0.000
L35	31.25 - 31 (35)	TP36.019x35.961x0.863	2571.192	5071.050	0.507	0.000	5071.050	0.000
L36	31 - 26 (36)	TP37.177x36.019x0.85	2758.583	5341.867	0.516	0.000	5341.867	0.000
L37	26 - 22 (37)	TP38.104x37.177x0.825	2910.117	5466.717	0.532	0.000	5466.717	0.000
L38	22 - 21.75 (38)	TP38.162x38.104x0.938	2919.633	6175.541	0.473	0.000	6175.541	0.000
L39	21.75 - 19.0833 (39)	TP38.779x38.162x0.925	3021.492	6305.883	0.479	0.000	6305.883	0.000
L40	19.0833 - 18.8333 (40)	TP38.837x38.779x0.875	3031.075	6007.208	0.505	0.000	6007.208	0.000
L41	18.8333 - 18 (41)	TP39.03x38.837x0.875	3063.050	6069.150	0.505	0.000	6069.150	0.000
L42	18 - 17.75 (42)	TP39.088x39.03x1	3072.650	6889.433	0.446	0.000	6889.433	0.000
L43	17.75 - 17 (43)	TP39.262x39.088x1	3101.500	6953.233	0.446	0.000	6953.233	0.000
L44	17 - 16.75 (44)	TP39.32x39.262x1	3111.125	6974.567	0.446	0.000	6974.567	0.000
L45	16.75 - 11.75 (45)	TP40.478x39.32x0.975	3265.850	7150.975	0.457	0.000	7150.975	0.000
L46	11.75 - 6.75 (46)	TP41.636x40.478x0.95	3304.733	7064.458	0.468	0.000	7064.458	0.000
L47	6.75 - 4 (47)	TP42.273x41.636x0.95	3500.317	7489.533	0.467	0.000	7489.533	0.000
L48	4 - 3.75 (48)	TP42.331x42.273x0.975	3608.708	7917.617	0.456	0.000	7917.617	0.000
L49	3.75 - 3 (49)	TP42.505x42.331x0.963	3618.592	7845.408	0.461	0.000	7845.408	0.000
L50	3 - 2.75 (50)	TP42.563x42.505x1.075	3648.275	8765.417	0.416	0.000	8765.417	0.000
L51	2.75 - 0 (51)	TP43.2x42.563x1.075	3658.175	8790.250	0.416	0.000	8790.250	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	2.100	173.953	0.012	0.042	238.964	0.000
L2	124 - 119 (2)	TP16x16x0.375	7.618	173.953	0.044	0.036	238.964	0.000
L3	119 - 115.5 (3)	TP16x16x0.375	14.662	173.953	0.084	0.036	238.964	0.000
L4	115.5 - 115 (4)	TP17.81x17.81x0.375	14.713	194.104	0.076	0.044	297.534	0.000
L5	115 - 110 (5)	TP18.943x17.81x0.219	16.692	231.467	0.072	0.044	381.238	0.000
L6	110 - 105 (6)	TP20.076x18.943x0.219	17.749	245.474	0.072	2.407	428.777	0.006
L7	105 - 100 (7)	TP21.209x20.076x0.219	22.294	259.482	0.086	2.547	479.108	0.005
L8	100 - 95 (8)	TP22.343x21.209x0.219	22.752	273.489	0.083	2.651	532.231	0.005
L9	95 - 94.5 (9)	TP22.456x22.343x0.219	22.786	274.890	0.083	2.656	537.697	0.005
L10	94.5 - 94.25 (10)	TP22.513x22.456x0.438	22.807	545.773	0.042	2.659	1059.775	0.003
L11	94.25 - 92.0833 (11)	TP23.004x22.513x0.431	28.762	550.095	0.052	2.531	1092.225	0.002
L12	92.0833 - 91.8333 (12)	TP23.06x23.004x0.656	28.780	830.858	0.035	2.533	1637.383	0.002
L13	91.8333 - 86.8333 (13)	TP24.193x23.06x0.631	29.444	840.520	0.035	2.570	1742.050	0.001
L14	86.8333 -	TP25.326x24.193x0.606	30.090	846.909	0.036	2.608	1841.575	0.001

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 $\frac{T_u}{\phi T_n}$
L15	81.8333 (14) 81.8333 - 73.125 (15)	TP27.3x25.326x0.594	30.602	860.597	0.036	2.639	1941.617	0.001
L16	73.125 - 72.792 (16)	TP26.963x25.805x0.688	31.376	1020.840	0.031	2.679	2359.442	0.001
L17	72.792 - 71.5 (17)	TP27.262x26.963x0.675	31.560	1014.170	0.031	2.689	2371.842	0.001
L18	71.5 - 71.25 (18)	TP27.32x27.262x0.738	31.575	1107.880	0.029	2.690	2590.558	0.001
L19	71.25 - 68.3333 (19)	TP27.996x27.32x0.725	31.990	1117.300	0.029	2.702	2680.208	0.001
L20	68.3333 - 68.0833 (20)	TP28.054x27.996x0.738	32.004	1138.460	0.028	2.703	2735.500	0.001
L21	68.0833 - 67.9167 (21)	TP28.092x28.054x0.738	32.026	1140.060	0.028	2.703	2743.242	0.001
L22	67.9167 - 67.6667 (22)	TP28.15x28.092x1.088	32.063	1663.160	0.019	2.703	3959.192	0.001
L23	67.6667 - 67.5 (23)	TP28.189x28.15x1.088	32.088	1665.530	0.019	2.704	3970.500	0.001
L24	67.5 - 67.25 (24)	TP28.247x28.189x0.888	32.125	1372.160	0.023	2.704	3302.258	0.001
L25	67.25 - 66.3333 (25)	TP28.459x28.247x0.875	32.266	1363.960	0.024	2.706	3309.475	0.001
L26	66.3333 - 66.0833 (26)	TP28.517x28.459x1.038	32.294	1611.130	0.020	2.707	3894.392	0.001
L27	66.0833 - 61.0833 (27)	TP29.675x28.517x0.988	33.036	1600.910	0.021	2.718	4039.825	0.001
L28	61.0833 - 56.5 (28)	TP30.737x29.675x0.963	33.787	1619.490	0.021	3.005	4241.508	0.001
L29	56.5 - 56.25 (29)	TP30.795x30.737x0.963	33.811	1622.640	0.021	3.005	4258.025	0.001
L30	56.25 - 51.25 (30)	TP31.953x30.795x0.938	34.543	1643.170	0.021	3.016	4482.933	0.001
L31	51.25 - 46.25 (31)	TP33.111x31.953x0.913	35.247	1660.370	0.021	3.028	4702.658	0.001
L32	46.25 - 36.542 (32)	TP35.36x33.111x0.888	35.826	1665.510	0.022	3.021	4865.100	0.001
L33	36.542 - 35.542 (33)	TP34.967x33.471x0.813	36.856	1568.200	0.024	3.007	4711.342	0.001
L34	35.542 - 31.25 (34)	TP35.961x34.967x0.8	37.250	1589.580	0.023	2.994	4916.358	0.001
L35	31.25 - 31 (35)	TP36.019x35.961x0.863	37.255	1713.550	0.022	2.994	5299.067	0.001
L36	31 - 26 (36)	TP37.177x36.019x0.85	37.730	1744.950	0.022	2.994	5575.875	0.001
L37	26 - 22 (37)	TP38.104x37.177x0.825	38.080	1737.990	0.022	2.993	5699.125	0.001
L38	22 - 21.75 (38)	TP38.162x38.104x0.938	38.084	1972.100	0.019	2.993	6457.325	0.000
L39	21.75 - 19.0833 (39)	TP38.779x38.162x0.925	38.344	1978.750	0.019	2.993	6588.800	0.000
L40	19.0833 - 18.8333 (40)	TP38.837x38.779x0.875	38.343	1877.120	0.020	2.993	6268.233	0.000
L41	18.8333 - 18 (41)	TP39.03x38.837x0.875	38.426	1886.670	0.020	2.993	6332.141	0.000
L42	18 - 17.75 (42)	TP39.088x39.03x1	38.435	2152.400	0.018	2.993	7211.308	0.000
L43	17.75 - 17 (43)	TP39.262x39.088x1	38.512	2162.220	0.018	2.993	7277.250	0.000
L44	17 - 16.75 (44)	TP39.32x39.262x1	38.524	2165.490	0.018	2.993	7299.291	0.000
L45	16.75 - 11.75 (45)	TP40.478x39.32x0.975	38.943	2176.550	0.018	2.993	7474.667	0.000
L46	11.75 - 6.75 (46)	TP41.636x40.478x0.95	39.021	2134.520	0.018	2.993	7378.508	0.000
L47	6.75 - 4 (47)	TP42.273x41.636x0.95	39.447	2201.370	0.018	2.993	7817.250	0.000
L48	4 - 3.75 (48)	TP42.331x42.273x0.975	39.549	2278.660	0.017	2.993	8266.158	0.000

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L49	3.75 - 3 (49)	TP42.505x42.331x0.963	39.618	2259.580	0.018	2.993	8188.033	0.000
L50	3 - 2.75 (50)	TP42.563x42.505x1.075	39.627	2520.370	0.016	2.993	9172.167	0.000
L51	2.75 - 0 (51)	TP43.2x42.563x1.075	39.761	2539.720	0.016	2.993	9197.833	0.000

Pole Interaction Design Data

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	129 - 124 (1)	0.026	0.036	0.000	0.012	0.000	0.061 ✔	1.050	4.8.2 ✔
L2	124 - 119 (2)	0.012	0.185	0.000	0.044	0.000	0.199 ✔	1.050	4.8.2 ✔
L3	119 - 115.5 (3)	0.019	0.326	0.000	0.084	0.000	0.352 ✔	1.050	4.8.2 ✔
L4	115.5 - 115 (4)	0.017	0.286	0.000	0.076	0.000	0.309 ✔	1.050	4.8.2 ✔
L5	115 - 110 (5)	0.017	0.453	0.000	0.072	0.000	0.475 ✔	1.050	4.8.2 ✔
L6	110 - 105 (6)	0.017	0.625	0.000	0.072	0.006	0.648 ✔	1.050	4.8.2 ✔
L7	105 - 100 (7)	0.022	0.820	0.000	0.086	0.005	0.850 ✔	1.050	4.8.2 ✔
L8	100 - 95 (8)	0.022	0.986	0.000	0.083	0.005	1.015 ✔	1.050	4.8.2 ✔
L9	95 - 94.5 (9)	0.022	1.001	0.000	0.083	0.005	1.030 ✔	1.050	4.8.2 ✔
L10	94.5 - 94.25 (10)	0.011	0.483	0.000	0.042	0.003	0.496 ✔	1.050	4.8.2 ✔
L11	94.25 - 92.0833 (11)	0.013	0.528	0.000	0.052	0.002	0.544 ✔	1.050	4.8.2 ✔
L12	92.0833 - 91.8333 (12)	0.009	0.360	0.000	0.035	0.002	0.370 ✔	1.050	4.8.2 ✔
L13	91.8333 - 86.8333 (13)	0.009	0.425	0.000	0.035	0.001	0.436 ✔	1.050	4.8.2 ✔
L14	86.8333 - 81.8333 (14)	0.010	0.486	0.000	0.036	0.001	0.497 ✔	1.050	4.8.2 ✔
L15	81.8333 - 73.125 (15)	0.010	0.526	0.000	0.036	0.001	0.537 ✔	1.050	4.8.2 ✔
L16	73.125 - 72.792 (16)	0.009	0.503	0.000	0.031	0.001	0.513 ✔	1.050	4.8.2 ✔
L17	72.792 - 71.5 (17)	0.009	0.518	0.000	0.031	0.001	0.528 ✔	1.050	4.8.2 ✔
L18	71.5 - 71.25 (18)	0.008	0.478	0.000	0.029	0.001	0.488 ✔	1.050	4.8.2 ✔
L19	71.25 - 68.3333 (19)	0.009	0.498	0.000	0.029	0.001	0.507 ✔	1.050	4.8.2 ✔
L20	68.3333 - 68.0833 (20)	0.008	0.491	0.000	0.028	0.001	0.500 ✔	1.050	4.8.2 ✔

Section No.	Elevation ft	Ratio $P_u/\phi P_n$	Ratio $M_{ux}/\phi M_{nx}$	Ratio $M_{uy}/\phi M_{ny}$	Ratio $V_u/\phi V_n$	Ratio $T_u/\phi T_n$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L21	68.0833 - 67.9167 (21)	0.008	0.492	0.000	0.028	0.001	0.501 ✔	1.050	4.8.2 ✔
L22	67.9167 - 67.6667 (22)	0.006	0.347	0.000	0.019	0.001	0.353 ✔	1.050	4.8.2 ✔
L23	67.6667 - 67.5 (23)	0.006	0.348	0.000	0.019	0.001	0.354 ✔	1.050	4.8.2 ✔
L24	67.5 - 67.25 (24)	0.007	0.418	0.000	0.023	0.001	0.425 ✔	1.050	4.8.2 ✔
L25	67.25 - 66.3333 (25)	0.007	0.426	0.000	0.024	0.001	0.433 ✔	1.050	4.8.2 ✔
L26	66.3333 - 66.0833 (26)	0.006	0.366	0.000	0.020	0.001	0.373 ✔	1.050	4.8.2 ✔
L27	66.0833 - 61.0833 (27)	0.007	0.394	0.000	0.021	0.001	0.401 ✔	1.050	4.8.2 ✔
L28	61.0833 - 56.5 (28)	0.007	0.413	0.000	0.021	0.001	0.420 ✔	1.050	4.8.2 ✔
L29	56.5 - 56.25 (29)	0.007	0.413	0.000	0.021	0.001	0.421 ✔	1.050	4.8.2 ✔
L30	56.25 - 51.25 (30)	0.007	0.432	0.000	0.021	0.001	0.440 ✔	1.050	4.8.2 ✔
L31	51.25 - 46.25 (31)	0.008	0.450	0.000	0.021	0.001	0.458 ✔	1.050	4.8.2 ✔
L32	46.25 - 36.542 (32)	0.008	0.467	0.000	0.022	0.001	0.475 ✔	1.050	4.8.2 ✔
L33	36.542 - 35.542 (33)	0.009	0.533	0.000	0.024	0.001	0.542 ✔	1.050	4.8.2 ✔
L34	35.542 - 31.25 (34)	0.010	0.544	0.000	0.023	0.001	0.554 ✔	1.050	4.8.2 ✔
L35	31.25 - 31 (35)	0.009	0.507	0.000	0.022	0.001	0.516 ✔	1.050	4.8.2 ✔
L36	31 - 26 (36)	0.009	0.516	0.000	0.022	0.001	0.526 ✔	1.050	4.8.2 ✔
L37	26 - 22 (37)	0.010	0.532	0.000	0.022	0.001	0.542 ✔	1.050	4.8.2 ✔
L38	22 - 21.75 (38)	0.008	0.473	0.000	0.019	0.000	0.482 ✔	1.050	4.8.2 ✔
L39	21.75 - 19.0833 (39)	0.009	0.479	0.000	0.019	0.000	0.488 ✔	1.050	4.8.2 ✔
L40	19.0833 - 18.8333 (40)	0.009	0.505	0.000	0.020	0.000	0.514 ✔	1.050	4.8.2 ✔
L41	18.8333 - 18 (41)	0.009	0.505	0.000	0.020	0.000	0.514 ✔	1.050	4.8.2 ✔
L42	18 - 17.75 (42)	0.008	0.446	0.000	0.018	0.000	0.454 ✔	1.050	4.8.2 ✔
L43	17.75 - 17 (43)	0.008	0.446	0.000	0.018	0.000	0.454 ✔	1.050	4.8.2 ✔
L44	17 - 16.75 (44)	0.008	0.446	0.000	0.018	0.000	0.454 ✔	1.050	4.8.2 ✔
L45	16.75 - 11.75 (45)	0.008	0.457	0.000	0.018	0.000	0.465 ✔	1.050	4.8.2 ✔
L46	11.75 - 6.75 (46)	0.009	0.468	0.000	0.018	0.000	0.477 ✔	1.050	4.8.2 ✔

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
L47	6.75 - 4 (47)	0.009	0.467	0.000	0.018	0.000	0.476 ✔	1.050	4.8.2 ✔
L48	4 - 3.75 (48)	0.009	0.456	0.000	0.017	0.000	0.465 ✔	1.050	4.8.2 ✔
L49	3.75 - 3 (49)	0.009	0.461	0.000	0.018	0.000	0.470 ✔	1.050	4.8.2 ✔
L50	3 - 2.75 (50)	0.008	0.416	0.000	0.016	0.000	0.424 ✔	1.050	4.8.2 ✔
L51	2.75 - 0 (51)	0.008	0.416	0.000	0.016	0.000	0.424 ✔	1.050	4.8.2 ✔

Section Capacity Table

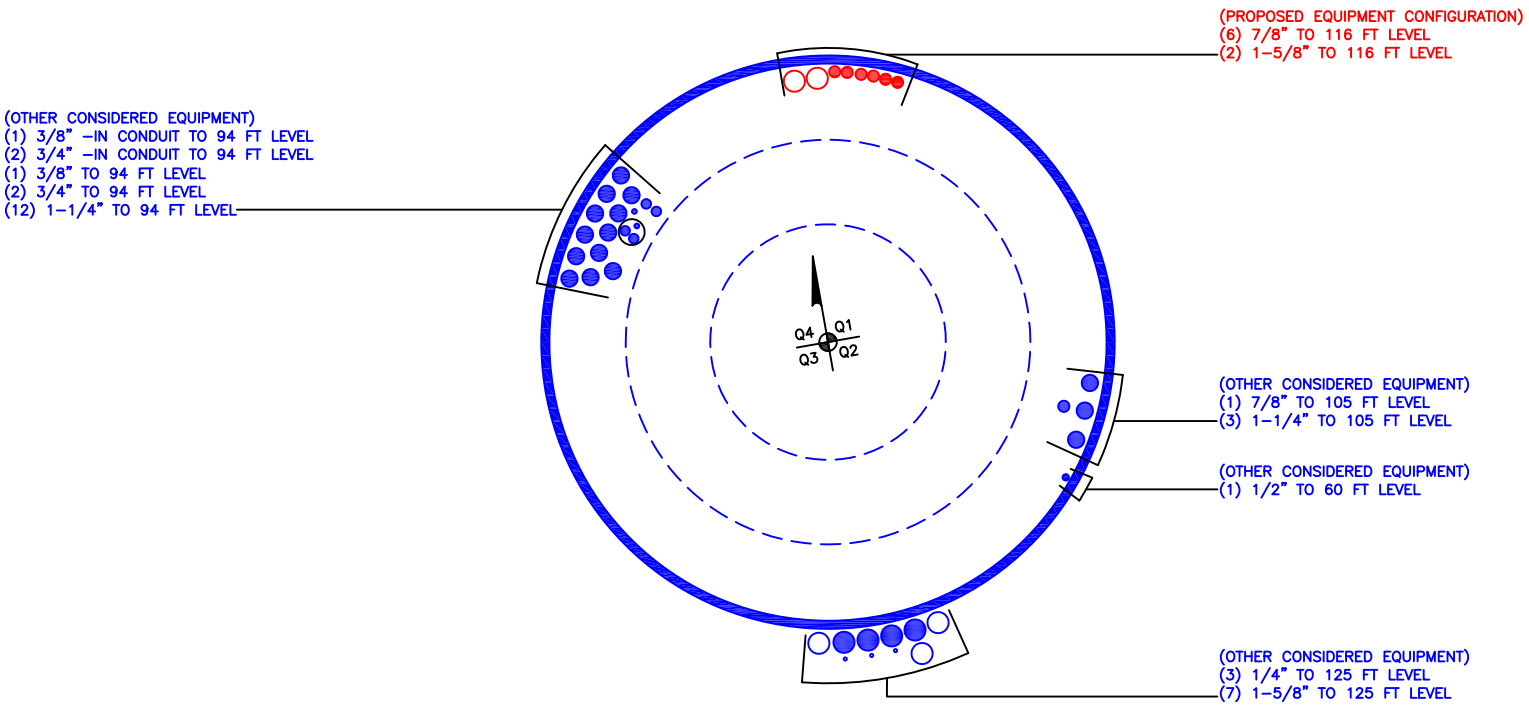
Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	129 - 124	Pole	TP16x16x0.375	1	-14.823	608.837	**	**
L2	124 - 119	Pole	TP16x16x0.375	2	-6.708	608.837	**	**
L3	119 - 115.5	Pole	TP16x16x0.375	3	-11.031	608.837	**	**
L4	115.5 - 115	Pole	TP17.81x17.81x0.375	4	-11.090	679.365	**	**
L5	115 - 110	Pole	TP18.943x17.81x0.219	5	-13.049	810.134	**	**
L6	110 - 105	Pole	TP20.076x18.943x0.219	6	-14.015	859.160	**	**
L7	105 - 100	Pole	TP21.209x20.076x0.219	7	-19.262	908.187	**	**
L8	100 - 95	Pole	TP22.343x21.209x0.219	8	-19.952	957.213	**	**
L9	95 - 94.5	Pole	TP22.456x22.343x0.219	9	-20.038	962.116	**	**
L10	94.5 - 94.25	Pole	TP22.513x22.456x0.438	10	-20.091	1910.202	**	**
L11	94.25 - 92.0833	Pole	TP23.004x22.513x0.431	11	-24.675	1925.332	**	**
L12	92.0833 - 91.8333	Pole	TP23.06x23.004x0.656	12	-24.753	2908.006	**	**
L13	91.8333 - 86.8333	Pole	TP24.193x23.06x0.631	13	-25.964	2941.816	**	**
L14	86.8333 - 81.8333	Pole	TP25.326x24.193x0.606	14	-27.224	2964.181	**	**
L15	81.8333 - 73.125	Pole	TP27.3x25.326x0.594	15	-28.270	3012.093	**	**
L16	73.125 - 72.792	Pole	TP26.963x25.805x0.688	16	-30.542	3572.940	**	**
L17	72.792 - 71.5	Pole	TP27.262x26.963x0.675	17	-30.909	3549.598	**	**
L18	71.5 - 71.25	Pole	TP27.32x27.262x0.738	18	-31.006	3877.597	**	**
L19	71.25 - 68.3333	Pole	TP27.996x27.32x0.725	19	-31.906	3910.546	**	**
L20	68.3333 - 68.0833	Pole	TP28.054x27.996x0.738	20	-32.014	3984.592	**	**
L21	68.0833 - 67.9167	Pole	TP28.092x28.054x0.738	21	-32.074	3990.231	**	**
L22	67.9167 - 67.6667	Pole	TP28.15x28.092x1.088	22	-32.176	5821.063	**	**
L23	67.6667 - 67.5	Pole	TP28.189x28.15x1.088	23	-32.245	5829.369	**	**
L24	67.5 - 67.25	Pole	TP28.247x28.189x0.888	24	-32.333	4802.574	**	**
L25	67.25 - 66.3333	Pole	TP28.459x28.247x0.875	25	-32.653	4773.846	**	**
L26	66.3333 - 66.0833	Pole	TP28.517x28.459x1.038	26	-32.773	5638.951	**	**
L27	66.0833 - 61.0833	Pole	TP29.675x28.517x0.988	27	-34.974	5603.178	**	**
L28	61.0833 - 56.5	Pole	TP30.737x29.675x0.963	28	-37.095	5668.204	**	**
L29	56.5 - 56.25	Pole	TP30.795x30.737x0.963	29	-37.221	5679.219	**	**

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L30	56.25 - 51.25	Pole	TP31.953x30.795x0.938	30	-39.485	5751.112	**	**
L31	51.25 - 46.25	Pole	TP33.111x31.953x0.913	31	-41.792	5811.288	**	**
L32	46.25 - 36.542	Pole	TP35.36x33.111x0.888	32	-43.780	5829.274	**	**
L33	36.542 - 35.542	Pole	TP34.967x33.471x0.813	33	-48.671	5488.686	**	**
L34	35.542 - 31.25	Pole	TP35.961x34.967x0.8	34	-50.551	5563.540	**	**
L35	31.25 - 31	Pole	TP36.019x35.961x0.863	35	-50.686	5997.411	**	**
L36	31 - 26	Pole	TP37.177x36.019x0.85	36	-53.097	6107.325	**	**
L37	26 - 22	Pole	TP38.104x37.177x0.825	37	-55.063	6082.975	**	**
L38	22 - 21.75	Pole	TP38.162x38.104x0.938	38	-55.206	6902.343	**	**
L39	21.75 - 19.0833	Pole	TP38.779x38.162x0.925	39	-56.595	6925.621	**	**
L40	19.0833 - 18.8333	Pole	TP38.837x38.779x0.875	40	-56.735	6569.934	**	**
L41	18.8333 - 18	Pole	TP39.03x38.837x0.875	41	-57.141	6603.345	**	**
L42	18 - 17.75	Pole	TP39.088x39.03x1	42	-57.293	7533.414	**	**
L43	17.75 - 17	Pole	TP39.262x39.088x1	43	-57.714	7567.770	**	**
L44	17 - 16.75	Pole	TP39.32x39.262x1	44	-57.863	7579.225	**	**
L45	16.75 - 11.75	Pole	TP40.478x39.32x0.975	45	-60.154	7573.261	**	**
L46	11.75 - 6.75	Pole	TP41.636x40.478x0.95	46	-60.730	7427.301	**	**
L47	6.75 - 4	Pole	TP42.273x41.636x0.95	47	-63.618	7644.934	**	**
L48	4 - 3.75	Pole	TP42.331x42.273x0.975	48	-65.206	7964.145	**	**
L49	3.75 - 3	Pole	TP42.505x42.331x0.963	49	-65.357	7875.441	**	**
L50	3 - 2.75	Pole	TP42.563x42.505x1.075	50	-65.785	8808.964	**	**
L51	2.75 - 0	Pole	TP43.2x42.563x1.075	51	-65.946	8821.281	**	**
							Summary	
						Pole (L9)	**	**
						RATING =	**	**

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

APPENDIX B

BASE LEVEL DRAWING



BUSINESS UNIT: 806395

APPENDIX C

ADDITIONAL CALCULATIONS

CCIpole

per TIA-222- H

Site BU: 806365

Work Order: 2118342

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	17.81	17.81	0.375		A53-B-35
3	115	41.875	4.667	12	17.81	27.3	0.21875	Auto	A572-65
4	77.792	41.25	5.458	12	25.80	35.36	0.3125	Auto	A572-65
5	42	42	0	12	33.47	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		E1				E1				E1		
2	41.5	56.5	plate	CCI-AFP-060100	3		E1				E1				E1		
3	0	3	plate	TS-6x1.25	3		c				c				c		
4	4	17	plate	CCI-AFP-065125	2			E2								E2	
5	4	22	plate	CCI-AFP-065125	1								E2				
6	19.08333333	41	plate	CCI-AFP-065125	1							E2					
7	17	40.58333333	plate	CCI-AFP-065125	2			E2								E2	
8	56.5	71.5	plate	CCI-AFP-060100	3				E2				E2				E2
9	71.5	92.08333333	plate	CCI-AFP-045100	3				E2				E2				E2
10	0	4	plate	ARB-6x1.25	3			c				c				c	
11	0	31.25	plate	CCI-WSFP-085125	3					E3				E3			E3
12	31.25	66.33333333	plate	CCI-SFP-085125	2					E3				E3			
13	40.58333333	67.91666667	plate	CCI-SFP-065125	2			E3								E3	
14	67.5	94.5	plate	CCI-SFP-045100	3		E3				E3				E3		
15	41	68.33333333	plate	CCI-SFP-065125	1							E3					
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	3.75	Welded	n/a	Welded	n/a	0.750	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	3.75	Welded	n/a	Welded	n/a	0.750	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	17.810	17.810	0.375	A53-B-35	1.000
5	115 - 110	5		12	17.810	18.943	0.21875	A572-65	1.000
6	110 - 105	5		12	18.943	20.076	0.21875	A572-65	1.000
7	105 - 100	5		12	20.076	21.209	0.21875	A572-65	1.000
8	100 - 95	5		12	21.209	22.343	0.21875	A572-65	1.000
9	95 - 94.5	0.5		12	22.343	22.456	0.21875	A572-65	1.000
10	94.5 - 94.25	0.25		12	22.456	22.513	0.4375	A572-65	0.940
11	94.25 - 92.08333	2.166666667		12	22.513	23.004	0.43125	A572-65	0.943
12	92.08333 - 91.83333	0.25		12	23.004	23.060	0.65625	A572-65	0.911
13	91.83333 - 86.83333	5		12	23.060	24.193	0.63125	A572-65	0.917
14	86.83333 - 81.83333	5		12	24.193	25.326	0.60625	A572-65	0.927
15	81.83333 - 77.792	8.708333333	4.667	12	25.326	27.300	0.59375	A572-65	0.925
16	77.792 - 72.792	5		12	25.805	26.963	0.6875	A572-65	0.926
17	72.792 - 71.5	1.292		12	26.963	27.262	0.675	A572-65	0.937
18	71.5 - 71.25	0.25		12	27.262	27.320	0.7375	A572-65	0.930
19	71.25 - 68.33333	2.916666667		12	27.320	27.996	0.725	A572-65	0.933
20	68.33333 - 68.08333	0.25		12	27.996	28.054	0.7375	A572-65	1.042
21	68.08333 - 67.91667	0.166666667		12	28.054	28.092	0.7375	A572-65	1.041
22	67.91667 - 67.66667	0.25		12	28.092	28.150	1.0875	A572-65	0.886
23	67.66667 - 67.5	0.166666667		12	28.150	28.189	1.0875	A572-65	0.885
24	67.5 - 67.25	0.25		12	28.189	28.247	0.8875	A572-65	0.902
25	67.25 - 66.33333	0.916666667		12	28.247	28.459	0.875	A572-65	0.910
26	66.33333 - 66.08333	0.25		12	28.459	28.517	1.0375	A572-65	1.003
27	66.08333 - 61.08333	5		12	28.517	29.675	0.9875	A572-65	1.022
28	61.08333 - 56.5	4.583333333		12	29.675	30.737	0.9625	A572-65	1.022
29	56.5 - 56.25	0.25		12	30.737	30.795	0.9625	A572-65	1.021
30	56.25 - 51.25	5		12	30.795	31.953	0.9375	A572-65	1.021
31	51.25 - 46.25	5		12	31.953	33.111	0.9125	A572-65	1.022
32	46.25 - 42	9.708	5.458	12	33.111	35.360	0.8875	A572-65	1.030
33	42 - 35.542	6.458		12	33.471	34.967	0.8125	A572-65	0.979
34	35.542 - 31.25	4.292		12	34.967	35.961	0.8	A572-65	0.979
35	31.25 - 31	0.25		12	35.961	36.019	0.8625	A572-65	1.018
36	31 - 26	5		12	36.019	37.177	0.85	A572-65	1.013
37	26 - 22	4		12	37.177	38.104	0.825	A572-65	1.029
38	22 - 21.75	0.25		12	38.104	38.162	0.9375	A572-65	0.980
39	21.75 - 19.08333	2.666666667		12	38.162	38.779	0.925	A572-65	0.983
40	19.08333 - 18.83333	0.25		12	38.779	38.837	0.875	A572-65	0.961
41	18.83333 - 18	0.833333333		12	38.837	39.030	0.875	A572-65	0.958
42	18 - 17.75	0.25		12	39.030	39.088	1	A572-65	0.987
43	17.75 - 17	0.75		12	39.088	39.262	1	A572-65	0.985
44	17 - 16.75	0.25		12	39.262	39.320	1	A572-65	0.984
45	16.75 - 11.75	5		12	39.320	40.478	0.975	A572-65	0.990
46	11.75 - 6.75	5		12	40.478	41.636	0.95	A572-65	0.998
47	6.75 - 4	2.75		12	41.636	42.273	0.95	A572-65	0.988
48	4 - 3.75	0.25		12	42.273	42.331	0.975	A572-65	0.948
49	3.75 - 3	0.75		12	42.331	42.505	0.9625	A572-65	0.958
50	3 - 2.75	0.25		12	42.505	42.563	1.075	A572-65	0.891
51	2.75 - 0	2.75		12	42.563	43.200	1.075	A572-65	0.883

TNX Section Forces

Increment (ft): 5		TNX Output		
	Section Height (ft)	P_u (K)	M_{ux} (kip-ft)	V_u (K)
1	129 - 124	14.82	8.54	2.10
2	124 - 119	6.71	44.48	7.62
3	119 - 115.5	11.03	78.29	14.66
4	115.5 - 115	11.09	85.64	14.71
5	115 - 110	13.05	165.23	16.69
6	110 - 105	14.02	251.90	17.75
7	105 - 100	19.26	362.08	22.29
8	100 - 95	19.95	474.58	22.75
9	95 - 94.5	20.04	485.96	22.79
10	94.5 - 94.25	20.09	491.65	22.81
11	94.25 - 92.08333	24.67	554.51	28.76
12	92.08333 - 91.83333	24.75	561.70	28.78
13	91.83333 - 86.83333	25.96	707.21	29.44
14	86.83333 - 81.83333	27.22	855.96	30.09
15	81.83333 - 77.792	28.27	978.53	30.60
16	77.792 - 72.792	30.54	1133.44	31.38
17	72.792 - 71.5	30.91	1174.08	31.56
18	71.5 - 71.25	31.01	1181.97	31.57
19	71.25 - 68.33333	31.91	1274.62	31.99
20	68.33333 - 68.08333	32.01	1282.62	32.00
21	68.08333 - 67.91667	32.07	1287.95	32.03
22	67.91667 - 67.66667	32.18	1295.96	32.06
23	67.66667 - 67.5	32.25	1301.31	32.09
24	67.5 - 67.25	32.33	1309.33	32.13
25	67.25 - 66.33333	32.65	1338.84	32.27
26	66.33333 - 66.08333	32.77	1346.91	32.29
27	66.08333 - 61.08333	34.97	1510.18	33.04
28	61.08333 - 56.5	37.09	1663.68	33.79
29	56.5 - 56.25	37.22	1672.12	33.81
30	56.25 - 51.25	39.49	1842.95	34.54
31	51.25 - 46.25	41.79	2017.34	35.25
32	46.25 - 42	43.78	2168.29	35.83
33	42 - 35.542	48.67	2402.96	36.86
34	35.542 - 31.25	50.55	2561.89	37.25
35	31.25 - 31	50.69	2571.19	37.25
36	31 - 26	53.10	2758.59	37.73
37	26 - 22	55.06	2910.11	38.08
38	22 - 21.75	55.21	2919.63	38.08
39	21.75 - 19.08333	56.60	3021.49	38.34
40	19.08333 - 18.83333	56.73	3031.07	38.34
41	18.83333 - 18	57.14	3063.05	38.43
42	18 - 17.75	57.29	3072.65	38.44
43	17.75 - 17	57.71	3101.50	38.51
44	17 - 16.75	57.86	3111.13	38.52
45	16.75 - 11.75	60.70	3304.73	38.94
46	11.75 - 6.75	63.59	3500.31	39.33
47	6.75 - 4	65.19	3608.71	39.55
48	4 - 3.75	65.34	3618.59	39.55
49	3.75 - 3	65.77	3648.27	39.62
50	3 - 2.75	65.93	3658.18	39.63
51	2.75 - 0	67.55	3767.45	39.87

Analysis Results

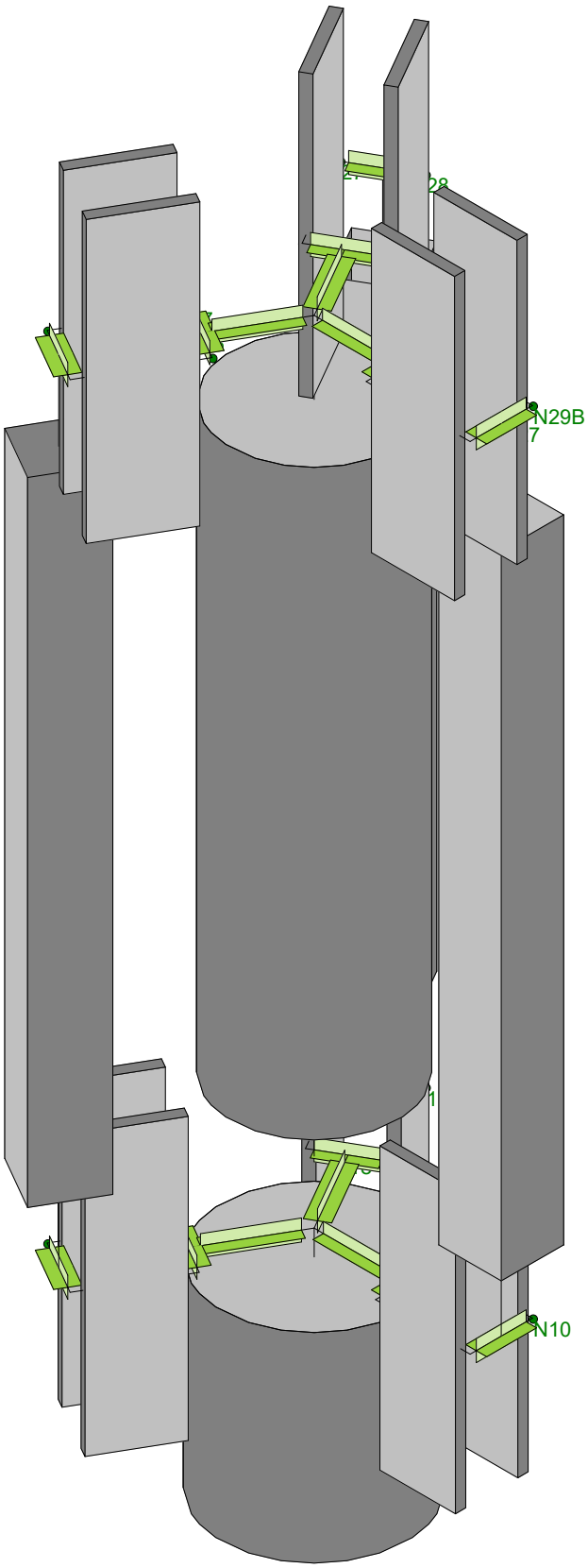
Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
129 - 124	Pole	TP16x16x0.375	Pole	5.8%	Pass
124 - 119	Pole	TP16x16x0.375	Pole	18.9%	Pass
119 - 115.5	Pole	TP16x16x0.375	Pole	33.5%	Pass
115.5 - 115	Pole	TP17.81x17.81x0.375	Pole	29.4%	Pass
115 - 110	Pole	TP18.943x17.81x0.2188	Pole	45.1%	Pass
110 - 105	Pole	TP20.076x18.943x0.2188	Pole	61.5%	Pass
105 - 100	Pole	TP21.209x20.076x0.2188	Pole	80.7%	Pass
100 - 95	Pole	TP22.343x21.209x0.2188	Pole	96.4%	Pass
95 - 94.5	Pole	TP22.456x22.343x0.2188	Pole	97.8%	Pass
94.5 - 94.25	Pole + Reinf.	TP22.513x22.456x0.4375	Reinf. 14 Tension Rupture	79.9%	Pass
94.25 - 92.08	Pole + Reinf.	TP23.004x22.513x0.4313	Reinf. 14 Tension Rupture	87.4%	Pass
92.08 - 91.83	Pole + Reinf.	TP23.06x23.004x0.6563	Reinf. 9 Tension Rupture	59.6%	Pass
91.83 - 86.83	Pole + Reinf.	TP24.193x23.06x0.6313	Reinf. 9 Tension Rupture	70.2%	Pass
86.83 - 81.83	Pole + Reinf.	TP25.326x24.193x0.6063	Reinf. 9 Tension Rupture	79.7%	Pass
81.83 - 77.79	Pole + Reinf.	TP27.3x25.326x0.5938	Reinf. 9 Tension Rupture	86.7%	Pass
77.79 - 72.79	Pole + Reinf.	TP26.963x25.805x0.6875	Reinf. 9 Tension Rupture	83.1%	Pass
72.79 - 71.5	Pole + Reinf.	TP27.262x26.963x0.675	Reinf. 9 Tension Rupture	84.7%	Pass
71.5 - 71.25	Pole + Reinf.	TP27.32x27.262x0.7375	Reinf. 14 Tension Rupture	78.0%	Pass
71.25 - 68.33	Pole + Reinf.	TP27.996x27.32x0.725	Reinf. 14 Tension Rupture	81.2%	Pass
68.33 - 68.08	Pole + Reinf.	TP28.054x27.996x0.7375	Reinf. 14 Tension Rupture	81.4%	Pass
68.08 - 67.92	Pole + Reinf.	TP28.092x28.054x0.7375	Reinf. 14 Tension Rupture	81.5%	Pass
67.92 - 67.67	Pole + Reinf.	TP28.15x28.092x1.0875	Reinf. 14 Tension Rupture	57.1%	Pass
67.67 - 67.5	Pole + Reinf.	TP28.189x28.15x1.0875	Reinf. 14 Tension Rupture	57.2%	Pass
67.5 - 67.25	Pole + Reinf.	TP28.247x28.189x0.8875	Reinf. 8 Tension Rupture	62.7%	Pass
67.25 - 66.33	Pole + Reinf.	TP28.459x28.247x0.875	Reinf. 8 Tension Rupture	63.4%	Pass
66.33 - 66.08	Pole + Reinf.	TP28.517x28.459x1.0375	Reinf. 8 Tension Rupture	59.3%	Pass
66.08 - 61.08	Pole + Reinf.	TP29.675x28.517x0.9875	Reinf. 8 Tension Rupture	63.1%	Pass
61.08 - 56.5	Pole + Reinf.	TP30.737x29.675x0.9625	Reinf. 8 Tension Rupture	66.3%	Pass
56.5 - 56.25	Pole + Reinf.	TP30.795x30.737x0.9625	Reinf. 2 Tension Rupture	66.5%	Pass
56.25 - 51.25	Pole + Reinf.	TP31.953x30.795x0.9375	Reinf. 2 Tension Rupture	69.7%	Pass
51.25 - 46.25	Pole + Reinf.	TP33.111x31.953x0.9125	Reinf. 2 Tension Rupture	72.7%	Pass
46.25 - 42	Pole + Reinf.	TP35.36x33.111x0.8875	Reinf. 2 Tension Rupture	75.0%	Pass
42 - 35.54	Pole + Reinf.	TP34.967x33.471x0.8125	Reinf. 7 Tension Rupture	79.9%	Pass
35.54 - 31.25	Pole + Reinf.	TP35.961x34.967x0.8	Reinf. 7 Tension Rupture	81.6%	Pass
31.25 - 31	Pole + Reinf.	TP36.019x35.961x0.8625	Reinf. 7 Tension Rupture	76.8%	Pass
31 - 26	Pole + Reinf.	TP37.177x36.019x0.85	Reinf. 7 Tension Rupture	78.6%	Pass
26 - 22	Pole + Reinf.	TP38.104x37.177x0.825	Reinf. 7 Tension Rupture	80.0%	Pass
22 - 21.75	Pole + Reinf.	TP38.162x38.104x0.9375	Reinf. 7 Tension Rupture	75.7%	Pass
21.75 - 19.08	Pole + Reinf.	TP38.779x38.162x0.925	Reinf. 7 Tension Rupture	76.6%	Pass
19.08 - 18.83	Pole + Reinf.	TP38.837x38.779x0.875	Reinf. 7 Tension Rupture	77.0%	Pass
18.83 - 18	Pole + Reinf.	TP39.03x38.837x0.875	Reinf. 7 Tension Rupture	77.3%	Pass
18 - 17.75	Pole + Reinf.	TP39.088x39.03x1	Reinf. 1 Tension Rupture	68.6%	Pass
17.75 - 17	Pole + Reinf.	TP39.262x39.088x1	Reinf. 1 Tension Rupture	68.8%	Pass
17 - 16.75	Pole + Reinf.	TP39.32x39.262x1	Reinf. 1 Tension Rupture	68.9%	Pass
16.75 - 11.75	Pole + Reinf.	TP40.478x39.32x0.975	Reinf. 1 Tension Rupture	70.3%	Pass
11.75 - 6.75	Pole + Reinf.	TP41.636x40.478x0.95	Reinf. 1 Tension Rupture	71.5%	Pass
6.75 - 4	Pole + Reinf.	TP42.273x41.636x0.95	Reinf. 1 Tension Rupture	72.2%	Pass
4 - 3.75	Pole + Reinf.	TP42.331x42.273x0.975	Reinf. 1 Tension Rupture	69.9%	Pass
3.75 - 3	Pole + Reinf.	TP42.505x42.331x0.9625	Reinf. 1 Tension Rupture	70.1%	Pass
3 - 2.75	Pole + Reinf.	TP42.563x42.505x1.075	Reinf. 3 Compression	60.1%	Pass
2.75 - 0	Pole + Reinf.	TP43.2x42.563x1.075	Reinf. 3 Compression	60.7%	Pass
				Summary	
			Pole	97.8%	Pass
			Reinforcement	87.4%	Pass
			Overall	97.8%	Pass

Additional Calculations

Section Elevation (ft)	Moment of Inertia (in^4)			Area (in^2)			% Capacity* (100% Max. Allowable)														
	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	5.8%															
124 - 119	562	n/a	562	18.41	n/a	18.41	18.9%															
119 - 115.5	562	n/a	562	18.41	n/a	18.41	33.5%															
115.5 - 115	781	n/a	781	20.54	n/a	20.54	29.4%															
115 - 110	591	n/a	591	13.17	n/a	13.17	45.1%															
110 - 105	705	n/a	705	13.97	n/a	13.97	61.5%															
105 - 100	833	n/a	833	14.76	n/a	14.76	80.7%															
100 - 95	975	n/a	975	15.56	n/a	15.56	96.4%															
95 - 94.5	990	n/a	990	15.64	n/a	15.64	97.8%															
94.5 - 94.25	998	945	1942	15.68	13.50	29.18	48.9%														79.9%	
94.25 - 92.08	1065	984	2049	16.03	13.50	29.53	54.1%														87.4%	
92.08 - 91.83	1073	1978	3051	16.07	27.00	43.07	37.0%									59.6%					59.6%	
91.83 - 86.83	1241	2166	3407	16.86	27.00	43.86	44.4%									70.2%					70.2%	
86.83 - 81.83	1425	2363	3788	17.66	27.00	44.66	51.5%									79.7%					79.7%	
81.83 - 77.79	1587	2529	4115	18.30	27.00	45.30	57.0%									86.7%					86.7%	
77.79 - 72.79	2434	2663	5097	26.78	27.00	53.78	48.1%									83.1%					83.1%	
72.79 - 71.5	2517	2720	5237	27.08	27.00	54.08	49.2%									84.7%					84.7%	
71.5 - 71.25	2534	3198	5731	27.14	31.50	58.64	45.4%								71.3%						78.0%	
71.25 - 68.33	2729	3350	6079	27.82	31.50	59.32	47.6%								74.2%						81.2%	
68.33 - 68.08	2746	3403	6149	27.87	39.63	67.50	48.8%								74.3%						81.4%	51.9%
68.08 - 67.92	2758	3412	6170	27.91	39.63	67.54	48.9%								74.5%						81.5%	52.0%
67.92 - 67.67	2775	6064	8838	27.97	55.88	83.85	33.6%								52.2%					51.6%	57.1%	51.6%
67.67 - 67.5	2786	6079	8866	28.01	55.88	83.89	33.6%								52.3%					51.7%	57.2%	51.7%
67.5 - 67.25	2803	4648	7451	28.07	42.38	70.44	40.4%								62.7%					62.0%		62.0%
67.25 - 66.33	2868	4714	7582	28.28	42.38	70.66	41.0%								63.4%					62.7%		62.7%
66.33 - 66.08	2960	5960	8919	28.34	63.63	91.97	40.0%								59.3%				42.6%	50.9%		49.2%
66.08 - 61.08	3337	6423	9760	29.50	63.63	93.13	43.2%								63.1%				43.7%	54.2%		52.4%
61.08 - 56.5	3710	6864	10573	30.57	63.63	94.20	46.0%								66.3%				46.1%	57.0%		55.2%
56.5 - 56.25	3731	6888	10619	30.63	63.63	94.25	46.1%		66.5%										46.2%	57.1%		55.3%
56.25 - 51.25	4170	7387	11557	31.79	63.63	95.42	49.1%		69.7%										48.6%	59.9%		58.1%
51.25 - 46.25	4642	7903	12545	32.96	63.63	96.58	52.0%		72.7%										50.9%	62.5%		60.7%
46.25 - 42	5070	8357	13427	33.95	63.63	97.57	54.3%		75.0%										52.7%	64.6%		62.8%
42 - 35.54	6507	6926	13433	41.71	45.63	87.33	57.7%						77.1%	79.9%					63.6%			
35.54 - 31.25	7081	7308	14389	42.91	45.63	88.53	59.6%						78.8%	81.6%					67.7%			
31.25 - 31	7027	8395	15422	42.98	56.25	99.23	53.8%						71.2%	76.8%				68.5%				
31 - 26	7733	8915	16648	44.37	56.25	100.62	55.8%						73.0%	78.6%				67.5%				
26 - 22	8331	9343	17674	45.49	56.25	101.74	57.3%						74.3%	80.0%				68.8%				
22 - 21.75	8557	11571	20128	45.56	64.38	109.94	53.2%					61.3%	62.0%	75.7%				63.9%				
21.75 - 19.08	8980	11934	20914	46.31	64.38	110.68	54.1%					62.1%	62.8%	76.6%				64.7%				
19.08 - 18.83	8878	11040	19919	46.38	56.25	102.63	55.6%					74.7%		77.0%				70.0%				
18.83 - 18	9012	11146	20158	46.61	56.25	102.86	55.9%					74.9%		77.3%				70.3%				
18 - 17.75	8987	13801	22788	46.68	74.25	120.93	46.9%	68.6%				63.2%		64.9%				59.4%				
17.75 - 17	9108	13919	23027	46.89	74.25	121.14	47.2%	68.8%				63.4%		65.1%				59.6%				
17 - 16.75	9149	13958	23107	46.96	74.25	121.21	47.3%	68.9%			65.2%	63.4%						59.7%				
16.75 - 11.75	9989	14758	24746	48.36	74.25	122.61	48.8%	70.3%			66.5%	64.7%						60.9%				
11.75 - 6.75	10878	15580	26458	49.75	74.25	124.00	50.3%	71.5%			67.7%	65.9%						62.1%				
6.75 - 4	11389	16041	27431	50.52	74.25	124.77	51.1%	72.2%			68.4%	66.6%						62.6%				
4 - 3.75	11423	16788	28211	50.59	72.38	122.96	49.6%	69.9%									63.2%	58.8%				
3.75 - 3	11565	16914	28479	50.80	72.38	123.17	49.8%	70.1%									63.4%	59.0%				
3 - 2.75	11619	20300	31919	50.87	76.88	127.74	46.2%			60.1%							57.2%	53.3%				
2.75 - 0	12153	20836	32989	51.64	76.88	128.51	47.0%			60.7%							57.8%	54.0%				

Note: Section capacity checked using 5 degree increments.

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



Envelope Only Solution

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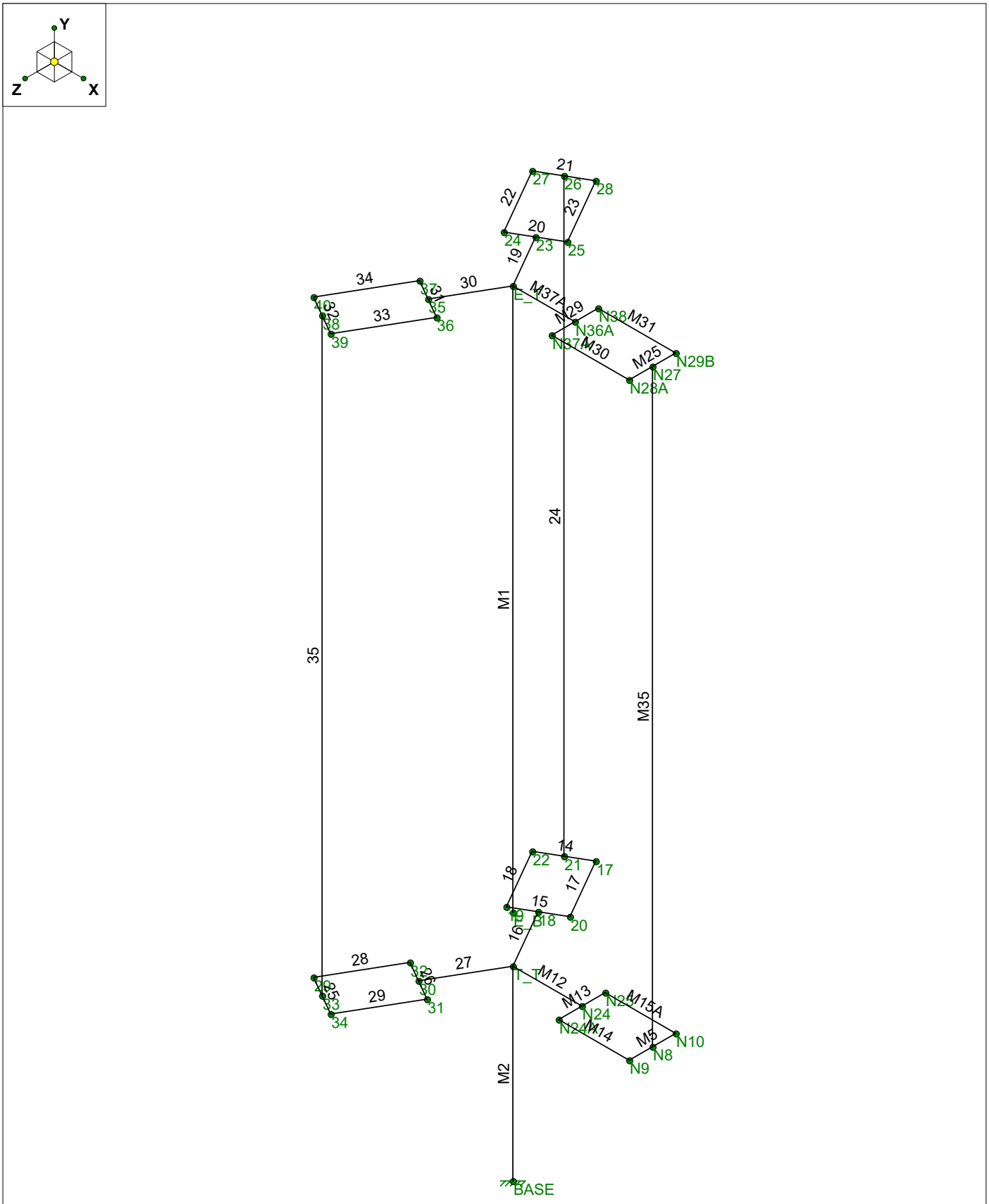

Envelope Only Solution

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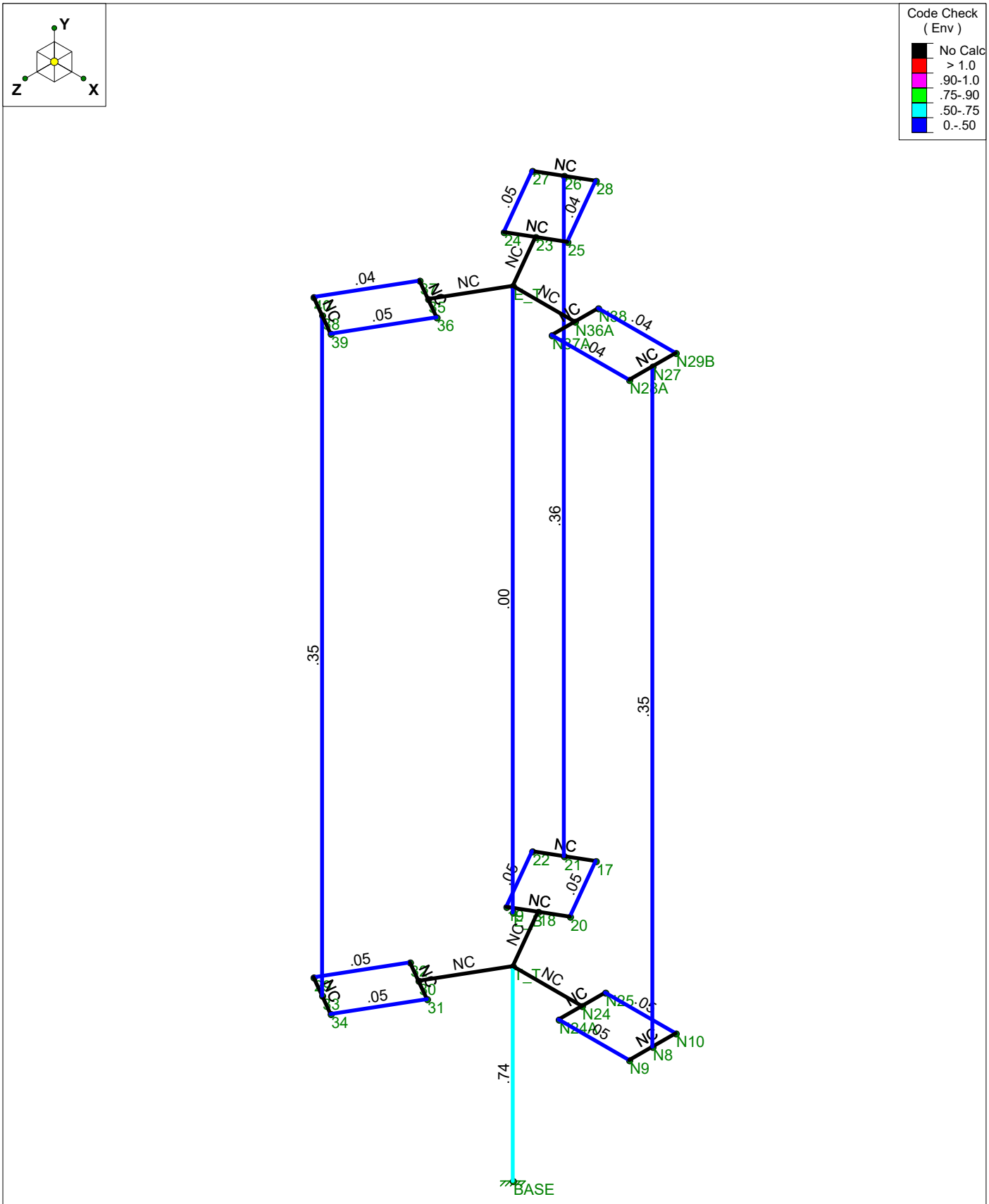

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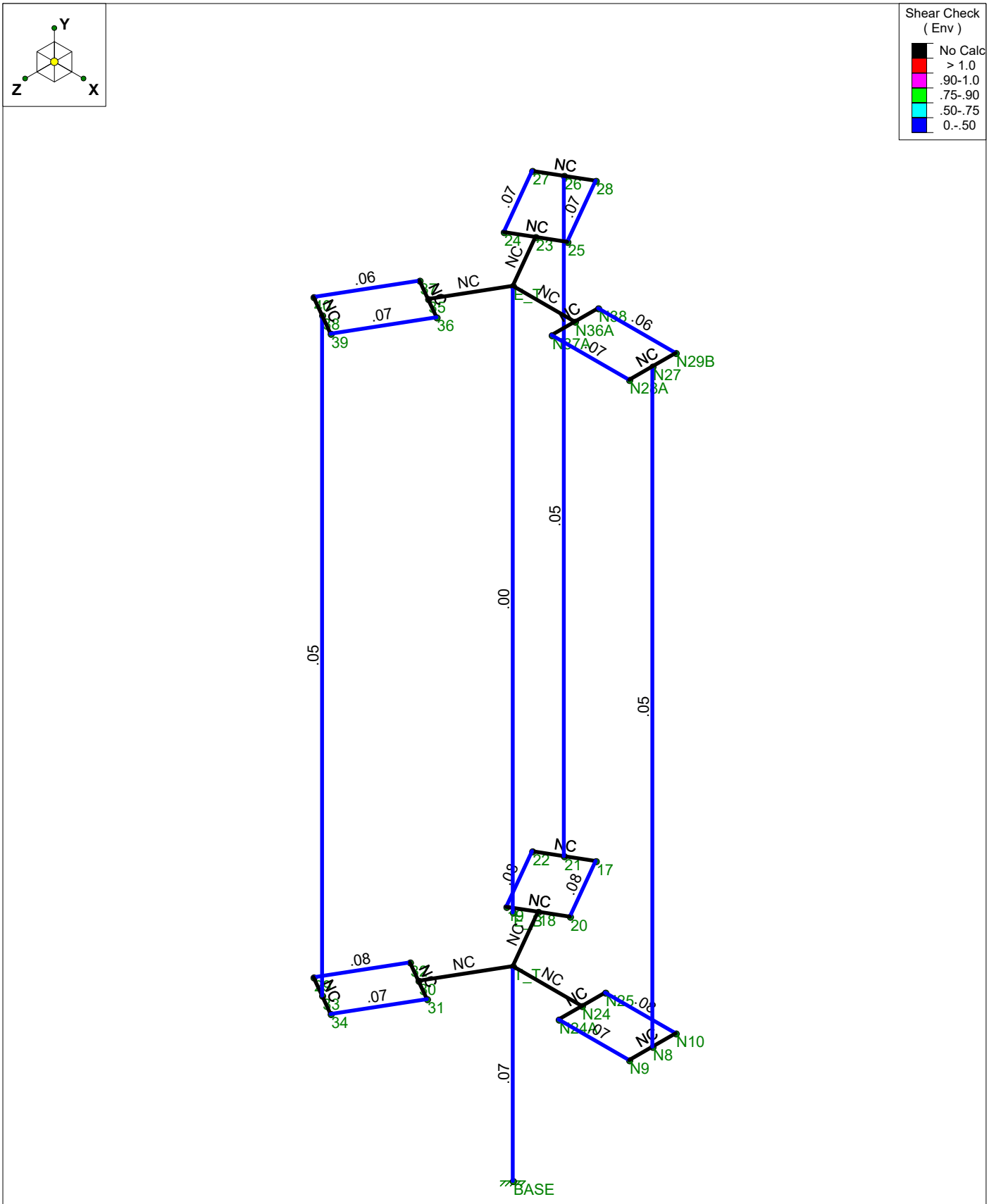


Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

B+T Group	806365 - HRT 303 943203	SK - 5
NA		May 24, 2022 at 1:21 PM
131593.005.01		131593_001_01_HRT 303 94320...

(Global) Model Settings

Display Sections for Member Calcs	5
Max Internal Sections for Member Calcs	97
Include Shear Deformation?	Yes
Increase Nailing Capacity for Wind?	Yes
Include Warping?	Yes
Trans Load Btwn Intersecting Wood Wall?	Yes
Area Load Mesh (in^2)	144
Merge Tolerance (in)	.12
P-Delta Analysis Tolerance	0.50%
Include P-Delta for Walls?	Yes
Automatically Iterate Stiffness for Walls?	Yes
Max Iterations for Wall Stiffness	3
Gravity Acceleration (ft/sec^2)	32.2
Wall Mesh Size (in)	24
Eigensolution Convergence Tol. (1.E-)	4
Vertical Axis	Y
Global Member Orientation Plane	XZ
Static Solver	Sparse Accelerated
Dynamic Solver	Accelerated Solver

Hot Rolled Steel Code	AISC 15th(360-16): LRFD
Adjust Stiffness?	Yes(Iterative)
RISAConnection Code	AISC 14th(360-10): LRFD
Cold Formed Steel Code	AISI S100-16: LRFD
Wood Code	AWC NDS-18: ASD
Wood Temperature	< 100F
Concrete Code	ACI 318-14
Masonry Code	ACI 530-13: ASD
Aluminum Code	AA ADM1-15: ASD - Building
Stainless Steel Code	AISC 14th(360-10): ASD
Adjust Stiffness?	Yes(Iterative)

Number of Shear Regions	4
Region Spacing Increment (in)	4
Biaxial Column Method	Exact Integration
Parme Beta Factor (PCA)	.65
Concrete Stress Block	Rectangular
Use Cracked Sections?	Yes
Use Cracked Sections Slab?	No
Bad Framing Warnings?	No
Unused Force Warnings?	Yes
Min 1 Bar Diam. Spacing?	No
Concrete Rebar Set	REBAR_SET_ASTMA615
Min % Steel for Column	1
Max % Steel for Column	8

(Global) Model Settings, Continued

Seismic Code	ASCE 7-10
Seismic Base Elevation (ft)	Not Entered
Add Base Weight?	Yes
Ct X	.02
Ct Z	.02
T X (sec)	Not Entered
T Z (sec)	Not Entered
R X	3
R Z	3
Ct Exp. X	.75
Ct Exp. Z	.75
SD1	1
SDS	1
S1	1
TL (sec)	5
Risk Cat	I or II
Drift Cat	Other
Om Z	1
Om X	1
Cd Z	1
Cd X	1
Rho Z	1
Rho X	1
Footing Overturning Safety Factor	1
Optimize for OTM/Sliding	No
Check Concrete Bearing	No
Footing Concrete Weight (k/ft^3)	.145
Footing Concrete f'c (ksi)	4
Footing Concrete Ec (ksi)	3644
Lambda	1
Footing Steel fy (ksi)	60
Minimum Steel	0.0018
Maximum Steel	0.0075
Footing Top Bar	#6
Footing Top Bar Cover (in)	1.5
Footing Bottom Bar	#6
Footing Bottom Bar Cover (in)	3
Pedestal Bar	#6
Pedestal Bar Cover (in)	1.5
Pedestal Ties	#4

Hot Rolled Steel Properties

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

Hot Rolled Steel Properties (Continued)

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E..	Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt
8	A572 Gr. 65	29000	11154	.3	.65	.49	65	1.5	80	1.2
9	A607-60	29000	11154	.3	.65	.49	60	1.5	75	1.2

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rules	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Existing pole	Pipe 17.81x0...	Column	Pipe	A572 Gr. 65	Typical	12.103	468.212	468.212	936.425
2	Extension pole	Pipe 16x0.375	Column	Pipe	A53 Gr.B	Typical	18.408	562.084	562.084	1124.168
3	HSS	HSS6X6X10	Column	Tube	A500 Gr.B R...	Typical	11.7	55.2	55.2	94.9
4	Plate Top	Bracket plate...	Beam	RECT	A572 Gr. 65	Typical	27	2.25	1640.25	8.79
5	Plate Bottom	Bracket plate...	Beam	RECT	A572 Gr. 65	Typical	27	2.25	1640.25	8.79

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	BASE	0	0	0	0	
2	T_T	0	2	0	0	
3	E_T	0	8.333	0	0	
4	E_B	0	2.5	0	0	
5	N8	1.4999	2	0	0	
6	N9	1.4999	2	.25	0	
7	N10	1.4999	2	-.25	0	
8	N24	0.742083	2	0	0	
9	N24A	0.742083	2	.25	0	
10	N25	0.742083	2	-.25	0	
11	N27	1.4999	8.333	0	0	
12	N28A	1.4999	8.333	.25	0	
13	N29B	1.4999	8.333	-.25	0	
14	N36A	0.66667	8.333	0	0	
15	N37A	0.66667	8.333	.25	0	
16	N38	0.66667	8.333	-.25	0	
17	17	-0.533444	2	-1.423952	0	
18	18	-0.371042	2	-0.642663	0	
19	19	-0.587548	2	-0.517663	0	
20	20	-0.154535	2	-0.767663	0	
21	21	-0.74995	2	-1.298952	0	
22	22	-0.966456	2	-1.173952	0	
23	23	-0.333335	8.333	-0.577353	0	
24	24	-0.549841	8.333	-0.452353	0	
25	25	-0.116829	8.333	-0.702353	0	
26	26	-0.74995	8.333	-1.298952	0	
27	27	-0.966456	8.333	-1.173952	0	
28	28	-0.533444	8.333	-1.423952	0	
29	29	-0.966456	2	1.173952	0	
30	30	-0.371042	2	0.642663	0	
31	31	-0.154535	2	0.767663	0	
32	32	-0.587548	2	0.517663	0	
33	33	-0.74995	2	1.298952	0	
34	34	-0.533444	2	1.423952	0	
35	35	-0.333335	8.333	0.577353	0	
36	36	-0.116829	8.333	0.702353	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
37	37	-0.549841	8.333	0.452353	0	
38	38	-0.74995	8.333	1.298952	0	
39	39	-0.533444	8.333	1.423952	0	
40	40	-0.966456	8.333	1.173952	0	

Joint Boundary Conditions

	Joint Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot.[k-ft/rad]	Y Rot.[k-ft/rad]	Z Rot.[k-ft/rad]
1	BASE	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction

Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
1	M1	Extension p...	5.833									Lateral
2	M2	Existing pole	2									Lateral
3	M35	HSS	6.333	4.5	4.5							Lateral
4	M14	Plate Bottom	.758			Lbyy						Lateral
5	M15A	Plate Bottom	.758			Lbyy						Lateral
6	M30	Plate Top	.833			Lbyy						Lateral
7	M31	Plate Top	.833			Lbyy						Lateral
8	17	Plate Bottom	.758			Lbyy						Lateral
9	18	Plate Bottom	.758			Lbyy						Lateral
10	22	Plate Top	.833			Lbyy						Lateral
11	23	Plate Top	.833			Lbyy						Lateral
12	24	HSS	6.333	4.5	4.5							Lateral
13	28	Plate Bottom	.758			Lbyy						Lateral
14	29	Plate Bottom	.758			Lbyy						Lateral
15	33	Plate Top	.833			Lbyy						Lateral
16	34	Plate Top	.833			Lbyy						Lateral
17	35	HSS	6.333	4.5	4.5							Lateral

Joint Loads and Enforced Displacements (BLC 1 : 1)

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/f...
1	E_T	L	Y	-11.09
2	E_T	L	X	-14.71
3	E_T	L	Mz	85.64
4	E_T	L	My	-.5

Joint Loads and Enforced Displacements (BLC 2 : 2)

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/f...
1	E_T	L	Y	-11.09
2	E_T	L	X	-12.739
3	E_T	L	Z	-7.355
4	E_T	L	Mz	74.166
5	E_T	L	Mx	-42.82
6	E_T	L	My	-.5

Joint Loads and Enforced Displacements (BLC 3 : 3)

Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/f

Joint Loads and Enforced Displacements (BLC 3 : 3) (Continued)

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/f...
1	E_T	L	Y	-11.09
2	E_T	L	X	-10.402
3	E_T	L	Z	-10.402
4	E_T	L	Mz	60.557
5	E_T	L	Mx	-60.557
6	E_T	L	My	-.5

Joint Loads and Enforced Displacements (BLC 4 : 4)

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/f...
1	E_T	L	Y	-11.09
2	E_T	L	X	-7.355
3	E_T	L	Z	-12.739
4	E_T	L	Mz	42.82
5	E_T	L	Mx	-74.166
6	E_T	L	My	-.5

Joint Loads and Enforced Displacements (BLC 5 : 5)

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/f...
1	E_T	L	Y	-11.09
2	E_T	L	Z	-14.71
3	E_T	L	Mx	-85.64
4	E_T	L	My	-.5

Joint Loads and Enforced Displacements (BLC 6 : 6)

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/f...
1	E_T	L	Y	-11.09
2	E_T	L	X	7.355
3	E_T	L	Z	-12.739
4	E_T	L	Mz	-42.82
5	E_T	L	Mx	-74.166
6	E_T	L	My	-.5

Joint Loads and Enforced Displacements (BLC 7 : 7)

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/f...
1	E_T	L	Y	-11.09
2	E_T	L	X	10.402
3	E_T	L	Z	-10.402
4	E_T	L	Mz	-60.557
5	E_T	L	Mx	-60.557
6	E_T	L	My	-.5

Joint Loads and Enforced Displacements (BLC 8 : 8)

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/f...
1	E_T	L	Y	-11.09
2	E_T	L	X	12.739
3	E_T	L	Z	-7.355
4	E_T	L	Mz	-74.166
5	E_T	L	Mx	-42.82
6	E_T	L	My	-.5

Joint Loads and Enforced Displacements (BLC 9 : 9)

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/f...
1	E_T	L	Y	-11.09
2	E_T	L	X	14.71
3	E_T	L	Mz	-85.64
4	E_T	L	My	-.5

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
1	1	None		-1		4				
2	2	None		-1		6				
3	3	None		-1		6				
4	4	None		-1		6				
5	5	None		-1		4				
6	6	None		-1		6				
7	7	None		-1		6				
8	8	None		-1		6				
9	9	None		-1		4				

Envelope Joint Reactions

	Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	BASE	max	14.71	1	13.228	3	14.709	5	208.89	5	.501	5	208.921	9
2		min	-14.71	9	13.228	9	0	1	-.011	9	.5	8	-208.865	1
3	Totals:	max	14.71	1	13.228	3	14.709	5						
4		min	-14.71	9	13.228	9	0	1						

Envelope Member Section Forces

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-...	LC	y-y Mome...	LC	z-z Mome...	LC
1	M1	1	max	-.365	9	.001	9	0	9	0	9	.007	5	.007	9
2			min	-.365	1	-.001	1	-.001	5	0	1	0	9	-.007	1
3		2	max	-.274	9	.001	9	0	9	0	9	.005	5	.005	9
4			min	-.274	1	-.001	1	-.001	5	0	1	0	9	-.005	1
5		3	max	-.183	9	.001	9	0	9	0	9	.003	5	.003	9
6			min	-.183	1	-.001	1	-.001	5	0	1	0	9	-.003	1
7		4	max	-.091	9	.001	9	0	9	0	9	.002	5	.002	9
8			min	-.091	1	-.001	1	-.001	5	0	1	0	9	-.002	1
9		5	max	0	9	.001	9	0	9	0	9	0	9	0	9
10			min	0	1	-.001	1	-.001	5	0	1	0	1	0	1
11	M2	1	max	13.146	3	14.747	1	14.747	5	.501	5	179.396	5	179.427	9
12			min	13.146	9	-14.747	9	0	1	.5	8	-.011	9	-179.37	1
13		2	max	13.167	3	14.747	1	14.747	5	.501	5	186.77	5	186.8	9
14			min	13.167	9	-14.747	9	0	1	.5	8	-.011	9	-186.744	1
15		3	max	13.187	3	14.747	1	14.747	5	.501	5	194.143	5	194.174	9
16			min	13.187	9	-14.747	9	0	1	.5	8	-.011	9	-194.118	1
17		4	max	13.208	3	14.747	1	14.747	5	.501	5	201.517	5	201.548	9
18			min	13.208	9	-14.747	9	0	1	.5	8	-.011	9	-201.491	1
19		5	max	13.228	3	14.747	1	14.747	5	.501	5	208.89	5	208.921	9
20			min	13.228	9	-14.747	9	0	1	.5	8	-.011	9	-208.865	1
21	M5	1	max	.022	1	30.932	9	3.167	1	9.406	1	.815	5	.325	5

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-...	LC	y-y Mome...	LC	z-z Mome...	LC
22			min	-2.17	5	-38.588	3	-3.707	6	-14.38	7	-.008	1	-.003	9
23		2	max	.022	1	30.932	9	3.167	1	9.406	1	.594	3	5.052	3
24			min	-2.17	5	-38.588	3	-3.707	6	-14.38	7	-.29	9	-3.869	9
25		3	max	-.021	9	30.932	9	1.006	2	9.425	9	.784	1	9.876	3
26			min	-2.17	5	-42.859	7	-2.978	5	-14.38	7	-.674	9	-10.944	7
27		4	max	2.168	5	26.662	1	2.727	9	9.425	9	.345	1	3.336	1
28			min	-.022	1	-42.859	7	-4.225	3	-14.364	3	-.531	6	-5.586	7
29		5	max	2.168	5	26.662	1	2.727	9	9.425	9	.008	1	.003	9
30			min	-.022	1	-42.859	7	-4.225	3	-14.364	3	-.815	5	-.325	5
31	M35	1	max	61.059	9	5.452	1	4.369	5	.142	5	.138	9	15.908	1
32			min	-53.074	1	-5.465	9	-.044	9	.102	1	-12.436	5	-15.963	9
33		2	max	61.127	9	5.452	1	4.369	5	.142	5	.069	9	7.277	1
34			min	-53.006	1	-5.465	9	-.044	9	.102	1	-5.519	5	-7.31	9
35		3	max	61.195	9	5.452	1	4.369	5	.142	5	1.399	5	1.342	9
36			min	-52.938	1	-5.465	9	-.044	9	.102	1	0	9	-1.354	1
37		4	max	61.262	9	5.452	1	4.369	5	.142	5	8.316	5	9.994	9
38			min	-52.871	1	-5.465	9	-.044	9	.102	1	-.07	9	-9.986	1
39		5	max	61.33	9	5.452	1	4.369	5	.142	5	15.233	5	18.646	9
40			min	-52.803	1	-5.465	9	-.044	9	.102	1	-.139	9	-18.617	1
41	M12	1	max	5.865	1	61.444	9	4.337	5	15.233	5	.168	1	110.752	9
42			min	-4.986	9	-52.694	1	-.044	1	-.139	9	-6.364	5	-97.705	1
43		2	max	5.865	1	61.444	9	4.337	5	15.233	5	.16	1	99.353	9
44			min	-4.986	9	-52.694	1	-.044	1	-.139	9	-5.559	5	-87.929	1
45		3	max	5.865	1	61.444	9	4.337	5	15.233	5	.151	1	87.954	9
46			min	-4.986	9	-52.694	1	-.044	1	-.139	9	-4.754	5	-78.154	1
47		4	max	5.865	1	61.444	9	4.337	5	15.233	5	.143	1	76.555	9
48			min	-4.986	9	-52.694	1	-.044	1	-.139	9	-3.95	5	-68.378	1
49		5	max	5.865	1	61.444	9	4.337	5	15.233	5	.135	1	65.156	9
50			min	-4.986	9	-52.694	1	-.044	1	-.139	9	-3.145	5	-58.602	1
51	M13	1	max	2.17	5	38.518	3	3.707	6	32.679	9	.829	5	.003	9
52			min	-.022	1	-31.002	9	-3.167	1	-30.629	2	-.009	1	-.325	5
53		2	max	2.17	5	38.518	3	3.707	6	32.679	9	1.2	5	3.878	9
54			min	-.022	1	-31.002	9	-3.167	1	-30.629	2	-.405	1	-5.043	3
55		3	max	2.17	5	42.929	7	2.978	5	32.679	9	1.607	6	10.961	7
56			min	.021	9	-31.002	9	-1.006	2	-33.911	8	-1.777	4	-9.858	3
57		4	max	.022	1	42.929	7	4.225	3	29.399	1	.349	9	5.595	7
58			min	-2.168	5	-26.592	1	-2.727	9	-33.911	8	-1.265	4	-3.327	1
59		5	max	.022	1	42.929	7	4.225	3	29.399	1	.009	1	.325	5
60			min	-2.168	5	-26.592	1	-2.727	9	-33.911	8	-.829	5	-.003	9
61	M14	1	max	3.167	1	30.99	9	2.169	5	.325	5	.009	1	32.679	9
62			min	-3.707	6	-38.511	3	-.022	1	-.003	9	-.829	5	-30.629	2
63		2	max	3.167	1	30.972	9	2.169	5	.325	5	.005	1	26.81	9
64			min	-3.707	6	-38.529	3	-.022	1	-.003	9	-.418	5	-24.259	1
65		3	max	3.167	1	30.955	9	2.169	5	.325	5	0	1	20.944	9
66			min	-3.707	6	-38.546	3	-.022	1	-.003	9	-.007	5	-19.311	1
67		4	max	3.167	1	30.937	9	2.169	5	.325	5	.404	5	15.897	8
68			min	-3.707	6	-38.564	3	-.022	1	-.003	9	-.004	1	-14.361	1
69		5	max	3.167	1	30.92	9	2.169	5	.325	5	.815	5	14.38	7
70			min	-3.707	6	-38.581	3	-.022	1	-.003	9	-.008	1	-9.406	1
71	M15A	1	max	4.225	3	42.934	7	2.169	5	.325	5	.009	1	33.911	8
72			min	-2.727	9	-26.606	1	-.022	1	-.003	9	-.829	5	-29.399	1
73		2	max	4.225	3	42.917	7	2.169	5	.325	5	.005	1	26.708	9

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-...	LC	y-y Mome...	LC	z-z Mome...	LC
74			min	-2.727	9	-26.624	1	-.022	1	-.003	9	-.418	5	-24.357	1
75		3	max	4.225	3	42.899	7	2.169	5	.325	5	0	1	20.944	9
76			min	-2.727	9	-26.641	1	-.022	1	-.003	9	-.007	5	-19.311	1
77		4	max	4.225	3	42.882	7	2.169	5	.325	5	.404	5	15.183	9
78			min	-2.727	9	-26.658	1	-.022	1	-.003	9	-.004	1	-15.078	2
79		5	max	4.225	3	42.865	7	2.169	5	.325	5	.815	5	9.425	9
80			min	-2.727	9	-26.676	1	-.022	1	-.003	9	-.008	1	-14.364	3
81	M25	1	max	2.167	5	26.795	1	3.975	6	8.062	1	.009	1	.268	5
82			min	-.022	1	-38.933	7	-3.171	1	-12.624	7	-.896	5	-.003	9
83		2	max	2.167	5	26.795	1	3.975	6	8.062	1	.29	9	5.055	7
84			min	-.022	1	-38.933	7	-3.171	1	-12.624	7	-.624	3	-3.352	1
85		3	max	.022	1	30.795	9	4.467	3	8.091	9	.674	9	9.922	7
86			min	-2.17	5	-38.933	7	-3.171	1	-12.624	7	-.784	1	-8.92	3
87		4	max	.022	1	30.795	9	4.467	3	8.091	9	.564	6	3.852	9
88			min	-2.17	5	-34.928	3	-2.73	9	-12.604	3	-.345	1	-4.554	3
89		5	max	.022	1	30.795	9	4.467	3	8.091	9	.896	5	.003	9
90			min	-2.17	5	-34.928	3	-2.73	9	-12.604	3	-.009	1	-.268	5
91	M29	1	max	.022	1	38.856	7	3.171	1	14.312	1	.01	1	.003	9
92			min	-2.167	5	-26.872	1	-3.975	6	-20.207	8	-.911	5	-.268	5
93		2	max	.022	1	38.856	7	3.171	1	14.312	1	.406	1	3.362	1
94			min	-2.167	5	-26.872	1	-3.975	6	-20.207	8	-1.323	5	-5.045	7
95		3	max	2.17	5	38.856	7	3.171	1	17.522	9	1.925	4	8.939	3
96			min	-.022	1	-30.718	9	-4.467	3	-20.207	8	-1.742	6	-9.903	7
97		4	max	2.17	5	35.004	3	2.73	9	17.522	9	1.376	4	4.564	3
98			min	-.022	1	-30.718	9	-4.467	3	-16.982	2	-.351	9	-3.843	9
99		5	max	2.17	5	35.004	3	2.73	9	17.522	9	.911	5	.268	5
100			min	-.022	1	-30.718	9	-4.467	3	-16.982	2	-.01	1	-.003	9
101	M30	1	max	3.975	6	26.891	1	.022	1	.268	5	.911	5	14.312	1
102			min	-3.171	1	-38.846	7	-2.169	5	-.003	9	-.01	1	-20.207	8
103		2	max	3.975	6	26.872	1	.022	1	.268	5	.459	5	8.713	1
104			min	-3.171	1	-38.865	7	-2.169	5	-.003	9	-.005	1	-12.206	8
105		3	max	3.975	6	26.853	1	.022	1	.268	5	.008	5	3.117	1
106			min	-3.171	1	-38.884	7	-2.169	5	-.003	9	0	1	-4.724	9
107		4	max	3.975	6	26.834	1	.022	1	.268	5	.004	1	4.891	6
108			min	-3.171	1	-38.904	7	-2.169	5	-.003	9	-.444	5	-2.474	1
109		5	max	3.975	6	26.814	1	.022	1	.268	5	.009	1	12.624	7
110			min	-3.171	1	-38.923	7	-2.169	5	-.003	9	-.896	5	-8.062	1
111	M31	1	max	2.73	9	35.016	3	.022	1	.268	5	.911	5	16.982	2
112			min	-4.467	3	-30.701	9	-2.169	5	-.003	9	-.01	1	-17.522	9
113		2	max	2.73	9	34.997	3	.022	1	.268	5	.459	5	9.783	2
114			min	-4.467	3	-30.721	9	-2.169	5	-.003	9	-.005	1	-11.125	9
115		3	max	2.73	9	34.978	3	.022	1	.268	5	.008	5	3.117	1
116			min	-4.467	3	-30.74	9	-2.169	5	-.003	9	0	1	-4.724	9
117		4	max	2.73	9	34.959	3	.022	1	.268	5	.004	1	1.682	9
118			min	-4.467	3	-30.759	9	-2.169	5	-.003	9	-.444	5	-5.706	4
119		5	max	2.73	9	34.939	3	.022	1	.268	5	.009	1	8.091	9
120			min	-4.467	3	-30.778	9	-2.169	5	-.003	9	-.896	5	-12.604	3
121	M37A	1	max	4.986	9	53.263	1	.044	1	12.436	5	6.364	5	63.917	1
122			min	-5.865	1	-60.875	9	-4.338	5	-.138	9	-.168	1	-75.408	9
123		2	max	4.986	9	53.263	1	.044	1	12.436	5	5.641	5	55.04	1
124			min	-5.865	1	-60.875	9	-4.338	5	-.138	9	-.161	1	-65.263	9
125		3	max	4.986	9	53.263	1	.044	1	12.436	5	4.918	5	46.163	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-...	LC	y-y Mome...	LC	z-z Mome...	LC
126			min	-5.865	1	-60.875	9	-4.338	5	-.138	9	-.154	1	-55.117	9
127		4	max	4.986	9	53.263	1	.044	1	12.436	5	4.195	5	37.286	1
128			min	-5.865	1	-60.875	9	-4.338	5	-.138	9	-.146	1	-44.971	9
129		5	max	4.986	9	53.263	1	.044	1	12.436	5	3.472	5	28.408	1
130			min	-5.865	1	-60.875	9	-4.338	5	-.138	9	-.139	1	-34.825	9
131	14	1	max	2.211	8	42.145	6	4.567	9	14.413	9	.669	1	.281	1
132			min	-1.782	1	-8.866	1	-3.708	1	-14.217	1	-.83	8	-.331	8
133		2	max	2.211	8	42.145	6	4.567	9	14.413	9	.206	1	1.389	1
134			min	-1.782	1	-8.866	1	-3.708	1	-14.217	1	-.487	6	-5.555	6
135		3	max	-.021	4	42.145	6	3.448	8	14.417	6	.386	9	9.76	9
136			min	-2.213	8	-41.617	1	-2.259	4	-14.217	1	-.674	4	-10.823	6
137		4	max	1.781	1	37.892	9	4.175	6	14.417	6	.538	9	5.023	9
138			min	-2.213	8	-41.617	1	-1.108	1	-4.916	1	-.531	1	-5.483	1
139		5	max	1.781	1	37.892	9	4.175	6	14.417	6	.83	8	.331	8
140			min	-2.213	8	-41.617	1	-1.108	1	-4.916	1	-.669	1	-.281	1
141	15	1	max	1.782	1	8.796	1	3.708	1	34.112	5	.68	1	.331	8
142			min	-2.211	8	-42.215	6	-4.567	9	-4.105	9	-.846	8	-.281	1
143		2	max	1.782	1	8.796	1	3.708	1	34.112	5	1.144	1	5.564	6
144			min	-2.211	8	-42.215	6	-4.567	9	-4.105	9	-1.341	9	-1.381	1
145		3	max	2.213	8	41.687	1	2.259	4	34.112	5	1.782	7	10.841	6
146			min	.021	4	-42.215	6	-3.448	8	-34.313	3	-1.912	9	-9.742	9
147		4	max	2.213	8	41.687	1	1.108	1	23.598	9	1.289	7	5.492	1
148			min	-1.781	1	-37.822	9	-4.175	6	-34.313	3	-.819	1	-5.014	9
149		5	max	2.213	8	41.687	1	1.108	1	23.598	9	.846	8	.281	1
150			min	-1.781	1	-37.822	9	-4.175	6	-34.313	3	-.68	1	-.331	8
151	16	1	max	2.828	9	61.443	4	3.563	1	13.183	1	6.697	8	110.751	4
152			min	-4.986	4	-24.171	9	-4.424	8	-15.508	8	-5.209	1	-45.64	9
153		2	max	2.828	9	61.443	4	3.563	1	13.183	1	5.877	8	99.352	4
154			min	-4.986	4	-24.171	9	-4.424	8	-15.508	8	-4.548	1	-41.155	9
155		3	max	2.828	9	61.443	4	3.563	1	13.183	1	5.056	8	87.953	4
156			min	-4.986	4	-24.171	9	-4.424	8	-15.508	8	-3.887	1	-36.671	9
157		4	max	2.828	9	61.443	4	3.563	1	13.183	1	4.235	8	76.554	4
158			min	-4.986	4	-24.171	9	-4.424	8	-15.508	8	-3.226	1	-32.187	9
159		5	max	2.828	9	61.443	4	3.563	1	13.183	1	3.414	8	65.155	4
160			min	-4.986	4	-24.171	9	-4.424	8	-15.508	8	-2.565	1	-27.703	9
161	17	1	max	4.567	9	42.227	6	1.781	1	.281	1	.846	8	34.112	5
162			min	-3.708	1	-8.798	1	-2.212	8	-.331	8	-.68	1	-4.105	9
163		2	max	4.567	9	42.21	6	1.781	1	.281	1	.427	8	26.81	4
164			min	-3.708	1	-8.815	1	-2.212	8	-.331	8	-.343	1	-6.687	9
165		3	max	4.567	9	42.192	6	1.781	1	.281	1	.008	8	20.944	4
166			min	-3.708	1	-8.832	1	-2.212	8	-.331	8	-.006	1	-9.266	9
167		4	max	4.567	9	42.175	6	1.781	1	.281	1	.332	1	16.024	3
168			min	-3.708	1	-8.85	1	-2.212	8	-.331	8	-.411	8	-11.841	9
169		5	max	4.567	9	42.158	6	1.781	1	.281	1	.669	1	14.217	1
170			min	-3.708	1	-8.867	1	-2.212	8	-.331	8	-.83	8	-14.413	9
171	18	1	max	1.108	1	41.698	1	1.781	1	.281	1	.846	8	34.313	3
172			min	-4.175	6	-37.808	9	-2.212	8	-.331	8	-.68	1	-23.598	9
173		2	max	1.108	1	41.681	1	1.781	1	.281	1	.427	8	27.283	3
174			min	-4.175	6	-37.826	9	-2.212	8	-.331	8	-.343	1	-16.433	9
175		3	max	1.108	1	41.663	1	1.781	1	.281	1	.008	8	20.944	4
176			min	-4.175	6	-37.843	9	-2.212	8	-.331	8	-.006	1	-9.266	9
177		4	max	1.108	1	41.646	1	1.781	1	.281	1	.332	1	15.997	5

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-...	LC	y-y Mome...	LC	z-z Mome...	LC
178			min	-4.175	6	-37.861	9	-2.212	8	-.331	8	-.411	8	-2.094	9
179		5	max	1.108	1	41.628	1	1.781	1	.281	1	.669	1	14.417	6
180			min	-4.175	6	-37.878	9	-2.212	8	-.331	8	-.83	8	-4.916	1
181	19	1	max	4.986	4	24.736	9	4.424	8	10.762	1	5.211	1	29.067	9
182			min	-2.828	9	-60.875	4	-3.563	1	-12.709	8	-6.697	8	-75.408	4
183		2	max	4.986	4	24.736	9	4.424	8	10.762	1	4.617	1	24.944	9
184			min	-2.828	9	-60.875	4	-3.563	1	-12.709	8	-5.96	8	-65.262	4
185		3	max	4.986	4	24.736	9	4.424	8	10.762	1	4.023	1	20.821	9
186			min	-2.828	9	-60.875	4	-3.563	1	-12.709	8	-5.223	8	-55.116	4
187		4	max	4.986	4	24.736	9	4.424	8	10.762	1	3.429	1	16.699	9
188			min	-2.828	9	-60.875	4	-3.563	1	-12.709	8	-4.485	8	-44.971	4
189		5	max	4.986	4	24.736	9	4.424	8	10.762	1	2.835	1	12.576	9
190			min	-2.828	9	-60.875	4	-3.563	1	-12.709	8	-3.748	8	-34.825	4
191	20	1	max	2.213	8	38.412	2	4.866	9	15.074	9	.93	8	.273	8
192			min	-1.78	1	-33.453	9	-3.975	1	-20.207	2	-.749	1	-.231	1
193		2	max	2.213	8	38.412	2	4.866	9	15.074	9	1.455	9	4.419	9
194			min	-1.78	1	-33.453	9	-3.975	1	-20.207	2	-1.246	1	-4.934	2
195		3	max	2.213	8	38.412	2	4.866	9	20.426	5	2.063	9	8.6	9
196			min	-.021	4	-38.94	5	-3.975	1	-20.207	2	-1.939	7	-9.873	5
197		4	max	1.783	1	4.436	1	4.449	6	20.426	5	.921	1	.786	1
198			min	-2.211	8	-38.94	5	-1.376	1	.941	1	-1.408	7	-5.006	5
199		5	max	1.783	1	4.436	1	4.449	6	20.426	5	.749	1	.231	1
200			min	-2.211	8	-38.94	5	-1.376	1	.941	1	-.93	8	-.273	8
201	21	1	max	1.78	1	33.377	9	3.975	1	12.771	9	.913	8	.231	1
202			min	-2.213	8	-38.488	2	-4.866	9	-12.562	1	-.736	1	-.273	8
203		2	max	1.78	1	33.377	9	3.975	1	12.771	9	.522	6	4.943	2
204			min	-2.213	8	-38.488	2	-4.866	9	-12.562	1	-.239	1	-4.409	9
205		3	max	.021	4	39.016	5	3.975	1	12.779	6	.674	4	9.892	5
206			min	-2.213	8	-38.488	2	-4.866	9	-12.562	1	-.386	9	-8.581	9
207		4	max	2.211	8	39.016	5	1.376	1	12.779	6	.564	1	5.015	5
208			min	-1.783	1	-4.36	1	-4.449	6	-4.594	1	-.576	9	-.776	1
209		5	max	2.211	8	39.016	5	1.376	1	12.779	6	.736	1	.273	8
210			min	-1.783	1	-4.36	1	-4.449	6	-4.594	1	-.913	8	-.231	1
211	22	1	max	4.449	6	4.422	1	2.212	8	.231	1	.749	1	-.941	1
212			min	-1.376	1	-38.922	5	-1.782	1	-.273	8	-.93	8	-20.426	5
213		2	max	4.449	6	4.403	1	2.212	8	.231	1	.377	1	-.679	9
214			min	-1.376	1	-38.941	5	-1.782	1	-.273	8	-.47	8	-12.317	5
215		3	max	4.449	6	4.384	1	2.212	8	.231	1	.006	1	1.143	9
216			min	-1.376	1	-38.96	5	-1.782	1	-.273	8	-.009	8	-4.724	4
217		4	max	4.449	6	4.365	1	2.212	8	.231	1	.452	8	5.007	7
218			min	-1.376	1	-38.979	5	-1.782	1	-.273	8	-.365	1	-3.687	1
219		5	max	4.449	6	4.346	1	2.212	8	.231	1	.913	8	12.779	6
220			min	-1.376	1	-38.998	5	-1.782	1	-.273	8	-.736	1	-4.594	1
221	23	1	max	3.975	1	33.456	9	2.212	8	.231	1	.749	1	15.074	9
222			min	-4.866	9	-38.396	2	-1.782	1	-.273	8	-.93	8	-20.207	2
223		2	max	3.975	1	33.437	9	2.212	8	.231	1	.377	1	8.107	9
224			min	-4.866	9	-38.416	2	-1.782	1	-.273	8	-.47	8	-12.207	2
225		3	max	3.975	1	33.418	9	2.212	8	.231	1	.006	1	1.143	9
226			min	-4.866	9	-38.435	2	-1.782	1	-.273	8	-.009	8	-4.724	4
227		4	max	3.975	1	33.399	9	2.212	8	.231	1	.452	8	4.891	1
228			min	-4.866	9	-38.454	2	-1.782	1	-.273	8	-.365	1	-5.816	9
229		5	max	3.975	1	33.38	9	2.212	8	.231	1	.913	8	12.562	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-...	LC	y-y Mome...	LC	z-z Mome...	LC
230			min	-4.866	9	-38.473	2	-1.782	1	-.273	8	-.736	1	-12.771	9
231	24	1	max	61.059	4	3.781	1	5.465	4	.135	1	7.971	9	10.762	1
232			min	-24.574	9	-4.456	8	-2.732	9	.062	8	-15.962	4	-12.709	8
233		2	max	61.127	4	3.781	1	5.465	4	.135	1	3.645	9	4.776	1
234			min	-24.507	9	-4.456	8	-2.732	9	.062	8	-7.31	4	-5.655	8
235		3	max	61.194	4	3.781	1	5.465	4	.135	1	1.342	4	1.4	8
236			min	-24.439	9	-4.456	8	-2.732	9	.062	8	-.681	9	-1.211	1
237		4	max	61.262	4	3.781	1	5.465	4	.135	1	9.994	4	8.454	8
238			min	-24.371	9	-4.456	8	-2.732	9	.062	8	-5.007	9	-7.197	1
239		5	max	61.33	4	3.781	1	5.465	4	.135	1	18.646	4	15.508	8
240			min	-24.303	9	-4.456	8	-2.732	9	.062	8	-9.333	9	-13.183	1
241	25	1	max	2.211	2	42.145	1	4.567	4	14.413	4	.74	9	.281	9
242			min	-1.97	9	-37.367	9	-1.271	9	-4.884	9	-.83	2	-.331	2
243		2	max	2.211	2	42.145	1	4.567	4	14.413	4	.581	9	4.951	9
244			min	-1.97	9	-37.367	9	-1.271	9	-4.884	9	-.487	1	-5.555	1
245		3	max	-.022	6	42.145	1	3.448	2	14.417	1	.784	6	9.76	4
246			min	-2.213	2	-37.367	9	-2.698	6	-14.214	9	-.359	1	-10.823	1
247		4	max	1.968	9	37.892	4	4.175	1	14.417	1	.538	4	5.023	4
248			min	-2.213	2	-13.049	9	-4.097	9	-14.214	9	-.228	9	-1.912	9
249		5	max	1.968	9	37.892	4	4.175	1	14.417	1	.83	2	.331	2
250			min	-2.213	2	-13.049	9	-4.097	9	-14.214	9	-.74	9	-.281	9
251	26	1	max	1.97	9	37.296	9	1.271	9	26.855	1	.752	9	.331	2
252			min	-2.211	2	-42.215	1	-4.567	4	-31.03	7	-.846	2	-.281	9
253		2	max	1.97	9	37.296	9	1.271	9	26.855	1	.911	9	5.564	1
254			min	-2.211	2	-42.215	1	-4.567	4	-31.03	7	-1.355	3	-4.943	9
255		3	max	2.213	2	37.296	9	2.698	6	30.827	5	1.742	1	10.841	1
256			min	.022	6	-42.215	1	-3.448	2	-31.03	7	-1.912	4	-9.742	4
257		4	max	2.213	2	13.119	9	4.097	9	30.827	5	1.276	2	1.921	9
258			min	-1.968	9	-37.822	4	-4.175	1	-7.319	1	-1.265	9	-5.014	4
259		5	max	2.213	2	13.119	9	4.097	9	30.827	5	.846	2	.281	9
260			min	-1.968	9	-37.822	4	-4.175	1	-7.319	1	-.752	9	-.331	2
261	27	1	max	5.865	6	32.896	1	3.938	9	13.165	9	6.697	2	58.586	1
262			min	-2.598	1	-52.693	6	-4.424	2	-15.508	2	-5.769	9	-97.704	6
263		2	max	5.865	6	32.896	1	3.938	9	13.165	9	5.877	2	52.484	1
264			min	-2.598	1	-52.693	6	-4.424	2	-15.508	2	-5.039	9	-87.929	6
265		3	max	5.865	6	32.896	1	3.938	9	13.165	9	5.056	2	46.381	1
266			min	-2.598	1	-52.693	6	-4.424	2	-15.508	2	-4.308	9	-78.153	6
267		4	max	5.865	6	32.896	1	3.938	9	13.165	9	4.235	2	40.278	1
268			min	-2.598	1	-52.693	6	-4.424	2	-15.508	2	-3.578	9	-68.377	6
269		5	max	5.865	6	32.896	1	3.938	9	13.165	9	3.414	2	34.175	1
270			min	-2.598	1	-52.693	6	-4.424	2	-15.508	2	-2.847	9	-58.602	6
271	28	1	max	4.567	4	42.227	1	1.969	9	.281	9	.846	2	26.855	1
272			min	-1.271	9	-37.284	9	-2.212	2	-.331	2	-.752	9	-31.03	7
273		2	max	4.567	4	42.21	1	1.969	9	.281	9	.427	2	18.857	1
274			min	-1.271	9	-37.301	9	-2.212	2	-.331	2	-.379	9	-24.83	7
275		3	max	4.567	4	42.193	1	1.969	9	.281	9	.008	2	10.862	1
276			min	-1.271	9	-37.319	9	-2.212	2	-.331	2	-.006	9	-19.311	6
277		4	max	4.567	4	42.175	1	1.969	9	.281	9	.367	9	2.87	1
278			min	-1.271	9	-37.336	9	-2.212	2	-.331	2	-.411	2	-15.177	5
279		5	max	4.567	4	42.158	1	1.969	9	.281	9	.74	9	4.884	9
280			min	-1.271	9	-37.354	9	-2.212	2	-.331	2	-.83	2	-14.413	4
281	29	1	max	4.097	9	13.117	9	1.969	9	.281	9	.846	2	7.319	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-...	LC	y-y Mome...	LC	z-z Mome...	LC
282			min	-4.175	1	-37.808	4	-2.212	2	-.331	2	-.752	9	-30.827	5
283		2	max	4.097	9	13.1	9	1.969	9	.281	9	.427	2	9.089	1
284			min	-4.175	1	-37.826	4	-2.212	2	-.331	2	-.379	9	-24.357	6
285		3	max	4.097	9	13.083	9	1.969	9	.281	9	.008	2	10.862	1
286			min	-4.175	1	-37.843	4	-2.212	2	-.331	2	-.006	9	-19.311	6
287		4	max	4.097	9	13.065	9	1.969	9	.281	9	.367	9	12.638	1
288			min	-4.175	1	-37.86	4	-2.212	2	-.331	2	-.411	2	-15.202	7
289		5	max	4.097	9	13.048	9	1.969	9	.281	9	.74	9	14.417	1
290			min	-4.175	1	-37.878	4	-2.212	2	-.331	2	-.83	2	-14.214	9
291	30	1	max	2.598	1	53.263	6	4.424	2	10.742	9	5.768	9	63.917	6
292			min	-5.865	6	-32.331	1	-3.938	9	-12.709	2	-6.697	2	-40.593	1
293		2	max	2.598	1	53.263	6	4.424	2	10.742	9	5.111	9	55.04	6
294			min	-5.865	6	-32.331	1	-3.938	9	-12.709	2	-5.96	2	-35.205	1
295		3	max	2.598	1	53.263	6	4.424	2	10.742	9	4.455	9	46.163	6
296			min	-5.865	6	-32.331	1	-3.938	9	-12.709	2	-5.223	2	-29.816	1
297		4	max	2.598	1	53.263	6	4.424	2	10.742	9	3.799	9	37.286	6
298			min	-5.865	6	-32.331	1	-3.938	9	-12.709	2	-4.485	2	-24.428	1
299		5	max	2.598	1	53.263	6	4.424	2	10.742	9	3.142	9	28.408	6
300			min	-5.865	6	-32.331	1	-3.938	9	-12.709	2	-3.748	2	-19.039	1
301	31	1	max	2.213	2	8.186	9	4.866	4	17.198	5	.93	2	.273	2
302			min	-1.968	9	-35.069	5	-1.563	9	-2.281	9	-.827	9	-.231	9
303		2	max	2.213	2	8.186	9	4.866	4	17.198	5	1.479	3	4.522	5
304			min	-1.968	9	-35.069	5	-1.563	9	-2.281	9	-1.022	9	-1.254	9
305		3	max	2.213	2	34.551	8	4.866	4	18.317	1	2.063	4	8.905	5
306			min	-.022	6	-37.285	1	-4.39	9	-16.982	8	-1.88	1	-9.559	1
307		4	max	1.97	9	34.551	8	4.449	1	18.317	1	1.376	9	4.451	8
308			min	-2.211	2	-37.285	1	-4.39	9	-16.982	8	-1.402	2	-4.898	1
309		5	max	1.97	9	34.551	8	4.449	1	18.317	1	.827	9	.231	9
310			min	-2.211	2	-37.285	1	-4.39	9	-16.982	8	-.93	2	-.273	2
311	32	1	max	1.968	9	34.993	5	1.563	9	12.771	4	.913	2	.231	9
312			min	-2.213	2	-8.262	9	-4.866	4	-4.585	9	-.813	9	-.273	2
313		2	max	1.968	9	34.993	5	1.563	9	12.771	4	.522	1	1.264	9
314			min	-2.213	2	-8.262	9	-4.866	4	-4.585	9	-.618	9	-4.512	5
315		3	max	.022	6	37.361	1	4.39	9	12.779	1	.359	1	9.578	1
316			min	-2.213	2	-34.475	8	-4.866	4	-12.552	9	-.784	6	-8.886	5
317		4	max	2.211	2	37.361	1	4.39	9	12.779	1	.264	9	4.907	1
318			min	-1.97	9	-34.475	8	-4.449	1	-12.552	9	-.575	4	-4.442	8
319		5	max	2.211	2	37.361	1	4.39	9	12.779	1	.813	9	.273	2
320			min	-1.97	9	-34.475	8	-4.449	1	-12.552	9	-.913	2	-.231	9
321	33	1	max	4.449	1	34.569	8	2.212	2	.231	9	.827	9	16.982	8
322			min	-4.39	9	-37.281	1	-1.968	9	-.273	2	-.93	2	-18.317	1
323		2	max	4.449	1	34.55	8	2.212	2	.231	9	.417	9	9.783	8
324			min	-4.39	9	-37.301	1	-1.968	9	-.273	2	-.47	2	-10.549	1
325		3	max	4.449	1	34.531	8	2.212	2	.231	9	.007	9	3.117	6
326			min	-4.39	9	-37.32	1	-1.968	9	-.273	2	-.009	2	-2.777	1
327		4	max	4.449	1	34.512	8	2.212	2	.231	9	.452	2	4.999	1
328			min	-4.39	9	-37.339	1	-1.968	9	-.273	2	-.403	9	-5.706	9
329		5	max	4.449	1	34.493	8	2.212	2	.231	9	.913	2	12.779	1
330			min	-4.39	9	-37.358	1	-1.968	9	-.273	2	-.813	9	-12.552	9
331	34	1	max	1.563	9	35.09	5	2.212	2	.231	9	.827	9	17.198	5
332			min	-4.867	4	-8.202	9	-1.968	9	-.273	2	-.93	2	-2.281	9
333		2	max	1.563	9	35.071	5	2.212	2	.231	9	.417	9	9.891	5

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-...	LC	y-y Mome...	LC	z-z Mome...	LC
334			min	-4.867	4	-8.221	9	-1.968	9	-.273	2	-.47	2	-1.752	1
335		3	max	1.563	9	35.052	5	2.212	2	.231	9	.007	9	3.117	6
336			min	-4.867	4	-8.24	9	-1.968	9	-.273	2	-.009	2	-2.777	1
337		4	max	1.563	9	35.033	5	2.212	2	.231	9	.452	2	2.863	9
338			min	-4.867	4	-8.259	9	-1.968	9	-.273	2	-.403	9	-5.833	3
339		5	max	1.563	9	35.013	5	2.212	2	.231	9	.913	2	4.585	9
340			min	-4.867	4	-8.278	9	-1.968	9	-.273	2	-.813	9	-12.771	4
341	35	1	max	32.492	1	4.456	2	5.451	6	.138	9	7.965	1	12.709	2
342			min	-53.074	6	-3.775	9	-2.726	1	.062	2	-15.907	6	-10.742	9
343		2	max	32.56	1	4.456	2	5.451	6	.138	9	3.649	1	5.655	2
344			min	-53.006	6	-3.775	9	-2.726	1	.062	2	-7.277	6	-4.765	9
345		3	max	32.628	1	4.456	2	5.451	6	.138	9	1.354	6	1.212	9
346			min	-52.938	6	-3.775	9	-2.726	1	.062	2	-.667	1	-1.4	2
347		4	max	32.696	1	4.456	2	5.451	6	.138	9	9.985	6	7.188	9
348			min	-52.87	6	-3.775	9	-2.726	1	.062	2	-4.983	1	-8.454	2
349		5	max	32.763	1	4.456	2	5.451	6	.138	9	18.616	6	13.165	9
350			min	-52.802	6	-3.775	9	-2.726	1	.062	2	-9.298	1	-15.508	2

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

	Member	Shape	Code C...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y-...	phi*Mn z-...	Cb	Eqn
1	M1	Pipe 16x0.375	.000	0	9	.000	0		9	575.102	579.845	240.372	240.372	1....	H1-1b
2	M2	Pipe 17.81x0...	.742	2	9	.071	0		5	618.732	708.012	285.851	285.851	1....	H1-1b
3	M35	HSS6X6X10	.354	6.333	8	.046	0	y	9	464.654	484.38	80.04	80.04	2....	H1-1b
4	M14	Bracket plate ...	.051	0	3	.070	.758	y	4	1437.322	1579.5	32.906	888.469	1....	H1-1b
5	M15A	Bracket plate ...	.052	0	7	.077	0	y	6	1437.322	1579.5	32.906	888.469	1....	H1-1b
6	M30	Bracket plate ...	.045	0	6	.069	.833	y	7	1409.273	1579.5	32.906	888.469	2....	H1-1b
7	M31	Bracket plate ...	.043	0	4	.063	0	y	3	1409.273	1579.5	32.906	888.469	2....	H1-1b
8	17	Bracket plate ...	.052	0	6	.078	0	y	6	1437.322	1579.5	32.906	888.469	1....	H1-1b
9	18	Bracket plate ...	.051	0	1	.077	0	y	1	1437.322	1579.5	32.906	888.469	1....	H1-1b
10	22	Bracket plate ...	.046	0	7	.068	.833	y	6	1409.273	1579.5	32.906	888.469	2....	H1-1b
11	23	Bracket plate ...	.045	0	1	.067	.833	y	1	1409.273	1579.5	32.906	888.469	2....	H1-1b
12	24	HSS6X6X10	.357	6.333	5	.046	0	z	4	464.654	484.38	80.04	80.04	2....	H1-1b
13	28	Bracket plate ...	.052	0	1	.078	0	y	1	1437.322	1579.5	32.906	888.469	1....	H1-1b
14	29	Bracket plate ...	.051	0	4	.071	.758	y	4	1437.322	1579.5	32.906	888.469	1....	H1-1b
15	33	Bracket plate ...	.046	0	1	.068	.833	y	1	1409.273	1579.5	32.906	888.469	2....	H1-1b
16	34	Bracket plate ...	.044	0	4	.062	0	y	4	1409.273	1579.5	32.906	888.469	2....	H1-1b
17	35	HSS6X6X10	.346	6.333	5	.046	0	z	6	464.654	484.38	80.04	80.04	2....	H1-1b

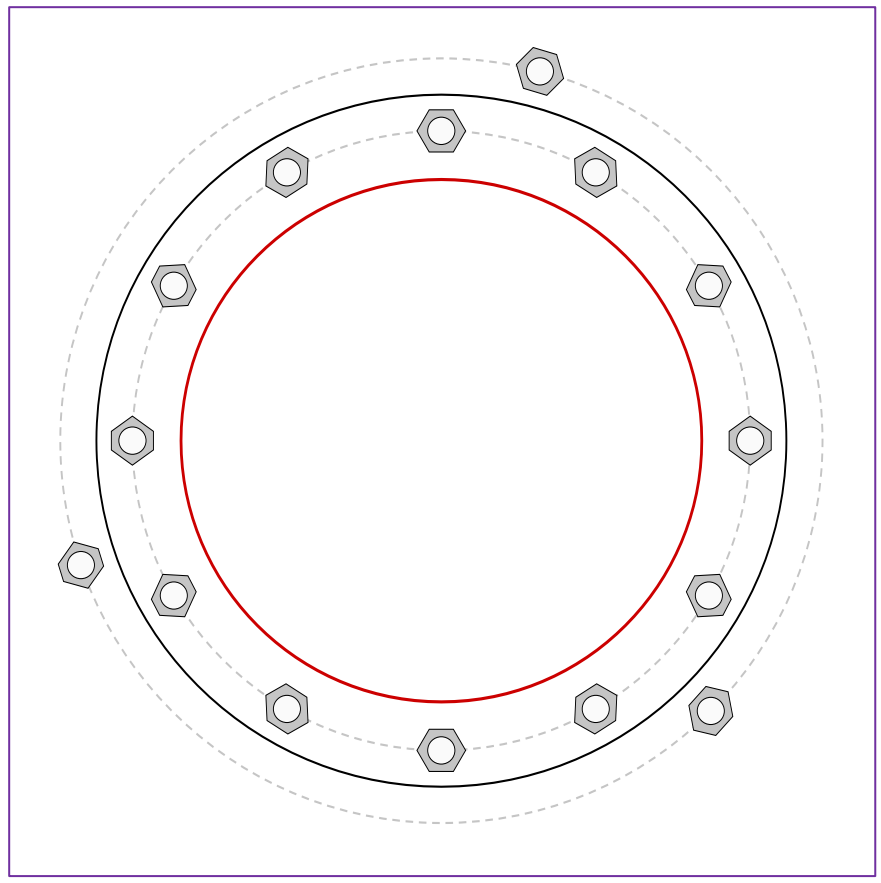
Monopole Base Plate Connection

Site Info	
BU #	806365
Site Name	HRT 303 943203, CT
Order #	618842, Rev. 0

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

Applied Loads	
Moment (kip-ft)	3767.45
Axial Force (kips)	67.55
Shear Force (kips)	39.87

**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 (S-128; Fy=60 ksi, Fu=80 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 = 210.94	ϕPn_t = 243.75	**Stress Rating**
Vu = 3.32	ϕVn = 149.1	**82.4%**
Mu = n/a	ϕMn = n/a	**Pass**
GROUP 2:		
Pu_t = 264.47	ϕPn_t = 304.69	**Stress Rating**
Vu = 0	ϕVn = 186.38	**82.7%**
Mu = 0	ϕMn = 179.4	**Pass**

Base Plate Summary

Max Stress (ksi):	28.43	(Flexural)
Allowable Stress (ksi):	54	
Stress Rating:	**50.1%**	**Pass**

CCIplate

Elevation (ft)	0	*(Base)*

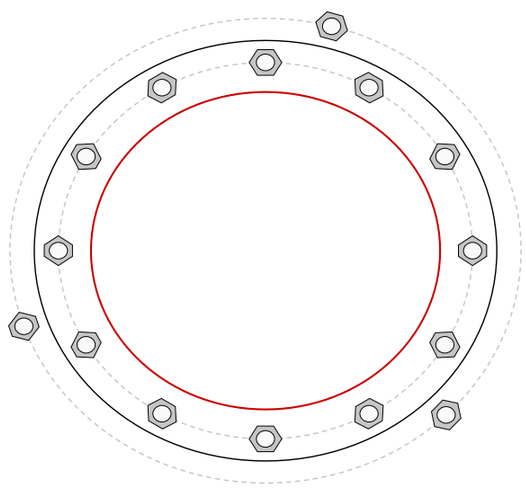
note: Bending interaction not considered when Grout Considered = "Yes"

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, η:	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



PROJECT	**131593.005.01 - HRT 303 943203, CT**
SUBJECT	**Anchor Rod Bracket Analysis**
DATE	**05-24-22**
v4.6.1	

TIA-222 Rev.	H	
Apply TIA-222-H Section 15.5?	Yes	

B+T GRP
1717 S. Boulder, Suite 300
Tulsa, OK 74119
(918) 587-4630

Analysis Criteria		
Design/Analysis	Analysis	
Load Type	Current Load	
Current load	264.47	kips
AR Capacity	375.7	kips

Tower Type	Monopole	

Manufacturers Tower Prop.		
Pole Thickness	0.375	in
Pole Grade	A572-65	
Fy	65	ksi
Fu	80	ksi
Base Plate Gr.	A572-60	
Fy	60	ksi
Fu	75	ksi

Post-Installed Adhesive AR Mod.		
ARB Type	Welded	
Size	2.25	in
Grade	A193 Gr B7	
Fy	105	ksi
Fu	125	ksi

Anchor Rod Bracket Analysis Checks		
Tube Bearing	51.5%	-
Tube Compression	77.2%	-
Gusset Shear	7.8%	-
Gusset Flexure	N/A	-
Welds: Gusset to Tower and BP	21.6%	-
Welds: Gusset to Tube	15.7%	-
Welds: Geometry	N/A	
Tower Punching	6.7%	-
Tube Punching	2.8%	-
Utilization	**77.2%**	

Bracket Properties

Gusset			Pipe/Tube			Weld - Gusset to Pipe/Tube		
Thickness	1.25	in	Size	HSS5x5x1/2		FEXX	70	ksi
Width at Tube	6	in	Total Length	24	in	Weld Type	Double Fillet	
Height at Pole	84	in	Length above Gusset	-36	in	Fillet Size	1/2	in
Height at Tube	72	in	Length below Gusset	-12	in			
Grade	A572-65		Grade	A500 Grade B (Square)				
Fy	65	ksi	Fy	46	ksi			
Fu	80	ksi	Fu	58	ksi			

Weld - Gusset to Tower			Weld - Gusset to Base Plate		
FEXX	70	ksi	FEXX	70	ksi
Weld Type	Double Fillet		Weld Type	CJP - Double Bevel	
Fillet Size	3/8	in	Fillet Size	5/8	in
			Bevel Depth	5/8	in
			Gap	0	in
			Notch (horiz)	0.75	in
			Notch (vert)	0.75	in
			Pipe/Tube Welded to Base/Footpad?	No	

Pier and Pad Foundation

BU # :	806365
Site Name:	HRT 303 943203, C
App. Number:	618842, Rev. 0

TIA-222 Revision:	H
Tower Type:	Monopole

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

Superstructure Analysis Reactions

Compression, P_{comp}:	67.55	kips
Base Shear, Vu_comp:	39.87	kips
Moment, M_u:	3767.45	ft-kips
Tower Height, **H**:	129	ft
BP Dist. Above Fdn, bp_{dist}:	2.5	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**:	5.08	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, δ**c**:	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**:	3.50	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)	896.21	39.87	**4.2%**	**Pass**
Bearing Pressure (ksf)	15.00	2.59	**16.4%**	**Pass**
*Overturning (kip*ft)*	13633.57	4214.33	**30.9%**	**Pass**
*Pier Flexure (Comp.) (kip*ft)*	4586.59	4003.48	**83.1%**	**Pass**
Pier Compression (kip)	18370.97	108.56	**0.6%**	**Pass**
*Pad Flexure (kip*ft)*	10676.27	1487.50	**13.3%**	**Pass**
Pad Shear - 1-way (kips)	1541.61	165.53	**10.2%**	**Pass**
Pad Shear - 2-way (Comp) (ksi)	0.164	0.017	**9.7%**	**Pass**
*Flexural 2-way (Comp) (kip*ft)*	16729.69	2402.09	**13.7%**	**Pass**

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

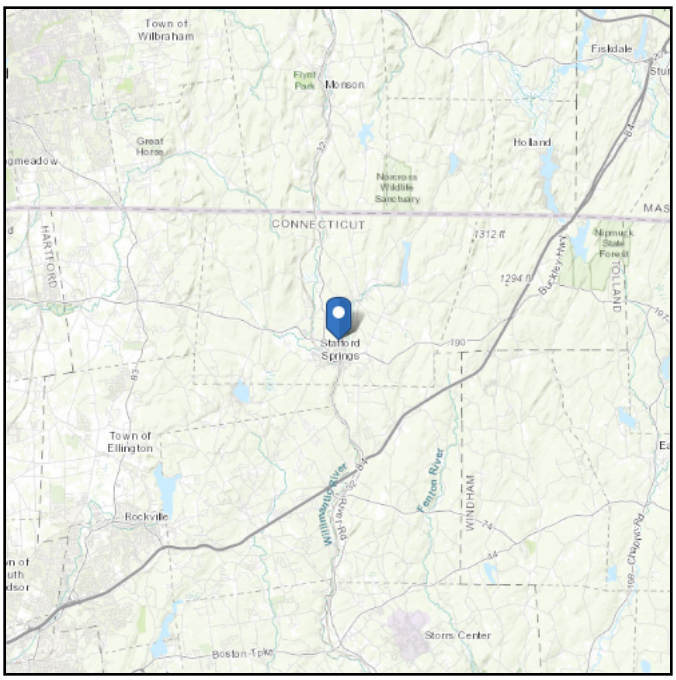
Structural Rating*:	**83.1%**
Soil Rating*:	**30.9%**

ASCE 7 Hazards Report

Address:
No Address at This Location

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

Elevation: 754.15 ft (NAVD 88)
Latitude: 41.964222
Longitude: -72.304944



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: Mon May 23 2022

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

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

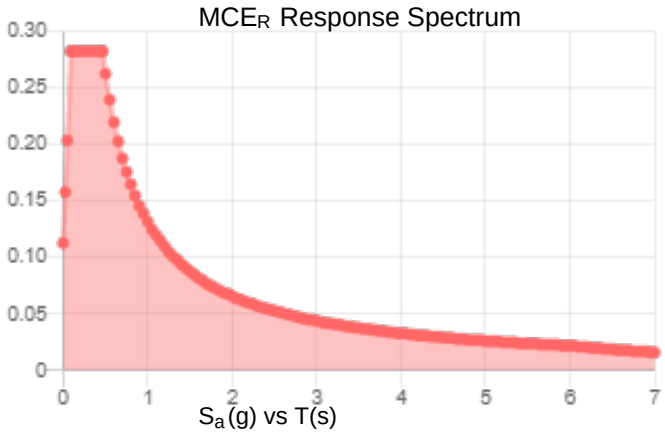
Seismic

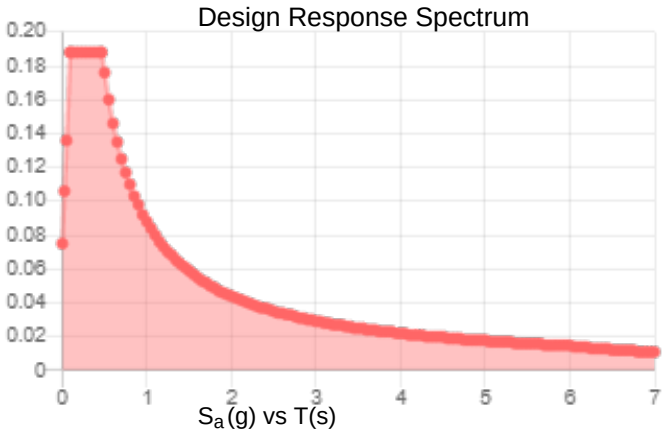
Site Soil Class: D - Default (see Section 11.4.3)

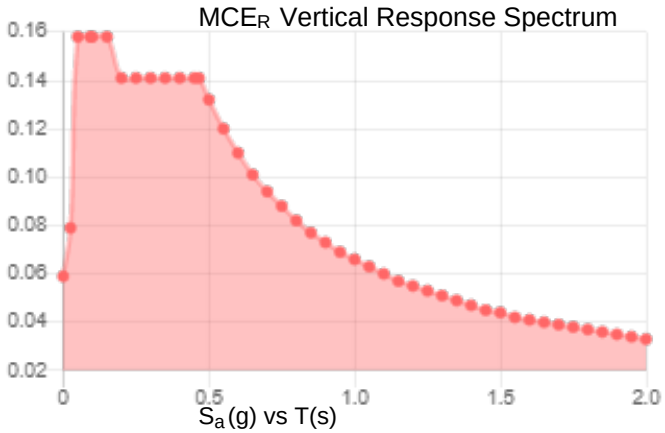
Results:

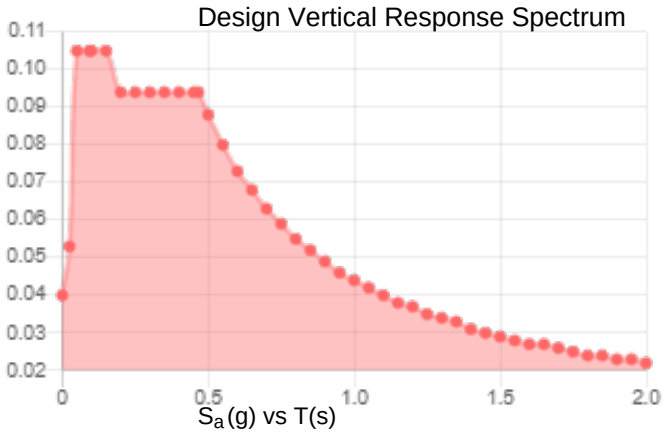
S_S :	0.177	S_{D1} :	0.088
S_1 :	0.055	T_L :	6
F_a :	1.6	PGA :	0.093
F_v :	2.4	PGA_M :	0.149
S_{MS} :	0.283	F_{PGA} :	1.6
S_{M1} :	0.132	I_e :	1
S_{DS} :	0.188	C_v :	0.7

Seismic Design Category B









Data Accessed: **Mon May 23 2022**

Date Source:

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

Ice

Results:

Ice Thickness:	1.50 in.
Concurrent Temperature:	5 F
Gust Speed	50 mph
Data Source:	Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8
Date Accessed:	Mon May 23 2022

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

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

Exhibit E

Mount Analysis

Maser Consulting Connecticut
1055 Washington Boulevard
Stamford, CT 06901
203.324.0800
peter.albano@colliersengineering.com

Antenna Mount Analysis Report with Hardware Upgrades and PMI Requirements

Mount Analysis

SMART Tool Project #: 10149600
Maser Consulting Connecticut Project #: 22777109A

June 9, 2022

Site Information	*Site ID:*	*467489-VZW / STAFFORD CT*
	Site Name:	*STAFFORD CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*200 Brendan St.* *Stafford, Connecticut 06076* *Tolland County*
	Latitude:	*41.964263°*
	Longitude:	*-72.305080°*
Structure Information	*Tower Type:*	*Monopole*
	Mount Type:	*12.50-Ft Platform*

FUZE ID # 16244115

Analysis Results

Platform: **99.3% Pass w/ Hardware Upgrades***

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

******Contractor PMI Requirements*:**
Included at the end of this MA report
Available & Submitted via portal at https://pmi.vzwsmart.com
For additional questions and support, please reach out to:
pmisupport@colliersengineering.com

Report Prepared By: Breanna Smith

Digitally signed by Derek Hartzel
Date: 2022.06.09 15:55:34-07'00'

STATE OF CONNECTICUT · DEREK R. HARTZEL · 32710 · LICENSED PROFESSIONAL ENGINEER

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*
Desktop Mount Mapping Report	*Colliers Engineering & Design, Project #: 22777109A dated June 3, 2022*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	118 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:	0.177 g
	S_1:	0.055 g
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Live Load, Lv:	250 lbs.
	Maintenance Live 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	Added
		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	Retained

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 Maser Consulting Connecticut 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 Maser Consulting Connecticut 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. Maser Consulting Connecticut 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 Maser Consulting Connecticut.

Analysis Results:

Component	Utilization %	Pass/Fail
Mount Pipe	67.2%	Pass
Support Rail Plate	13.3%	Pass
Support Rail	48.9%	Pass
Corner Plate	42.3%	Pass
Standoff Tab	99.3%	Pass
Standoff Brace	87.5%	Pass
Standoff	92.3%	Pass
Face Horizontal	87.3%	Pass
Connection Check	44.9%	Pass

Structure Rating – *(Controlling Utilization of all Components)*	**99.3%***

***** Results valid after hardware upgrades noted in the PMI Requirements are installed.

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

Contractor shall install a new 36” long P2 STD OVP pipe on standoff arm between alpha and beta sector.

Contractor shall install a new 36” long P2 STD OVP pipe on standoff arm between beta and gamma sector.

Attach the proposed OVP pipe to the standoff with crossover plate VZWSMART MSK6. Install proposed pipe 5" away from tower connection and with top of pipe 24” above standoff horizontal.

Contractor shall attach proposed OVP 12” from the top of OVP pipe.

Contractor shall shift mount pipes horizontally in position 2 on all sectors such that it is 45” from position 1 pipe. Reconnect shifted pipes to mount horizontals using existing connection crossover plates, etc. with new bolting hardware. Do not reuse existing bolts.

Contractor shall record all dimensions and member sizes requested in the Mount Geometry Verification Requirements section of the Mount Analysis report. 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.

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

Attachments:

1. **Contractor Required Post Installation Inspection (PMI) Report Deliverables**
2. Antenna Placement Diagrams
3. Mount Photos
4. 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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PSLC #: 467489 SMART Project #: 10149600 Fuze Project ID: 16244115

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

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

Base Requirements:

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

Photo Requirements:

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

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

Antenna & equipment placement and Geometry Confirmation:

- The contractor shall certify that the antenna & equipment placement and geometry is in accordance with the sketch and table as included in the mount analysis and noted below.

☐ The contractor certifies that the photos support and the equipment on the mount is as depicted on the sketch and table included in this form and with the mount analysis provided.

OR

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

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

Issue:

Contractor shall install a new 36” long P2 STD OVP pipe on standoff arm between alpha and beta sector.

Contractor shall install a new 36” long P2 STD OVP pipe on standoff arm between beta and gamma sector.

Attach the proposed OVP pipe to the standoff with crossover plate VZWSMART MSK6. Install proposed pipe 5" away from tower connection and with top of pipe 24” above standoff horizontal.

Contractor shall attach proposed OVP 12” from the top of OVP pipe.

Contractor shall shift mount pipes horizontally in position 2 on all sectors such that it is 45” from position 1 pipe. Reconnect shifted pipes to mount horizontals using existing connection crossover plates, etc. with new bolting hardware. Do not reuse existing bolts.

Contractor shall record all dimensions and member sizes requested in the Mount Geometry Verification Requirements section of the Mount Analysis report. 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.

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

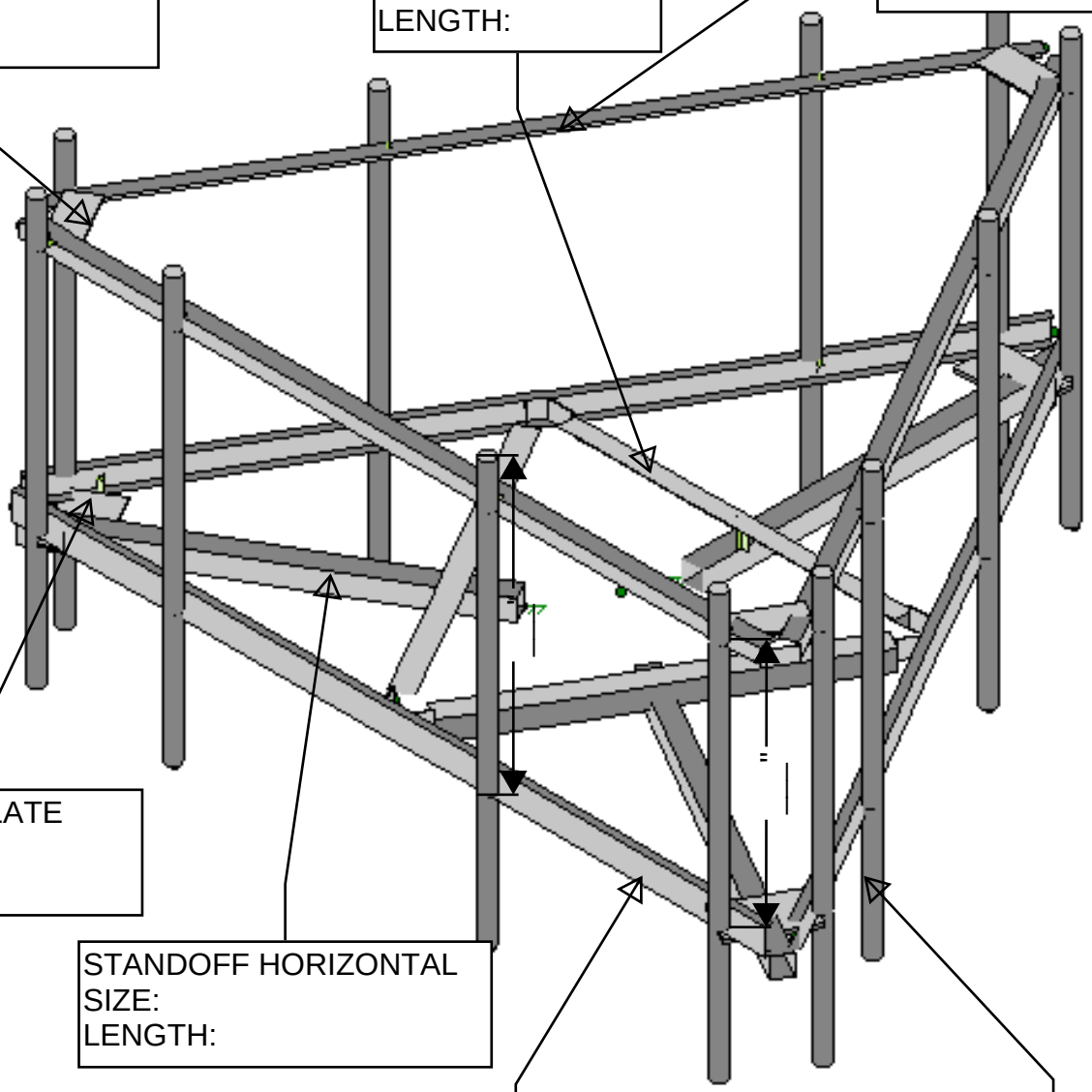
Contractor to certify the condition of the safety climb and verify no damage when leaving the site:

☐ Safety Climb in Good Condition ☐ Safety Climb Damaged

Certifying Individual:

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

MOUNT GEOMETRY VERIFICATION



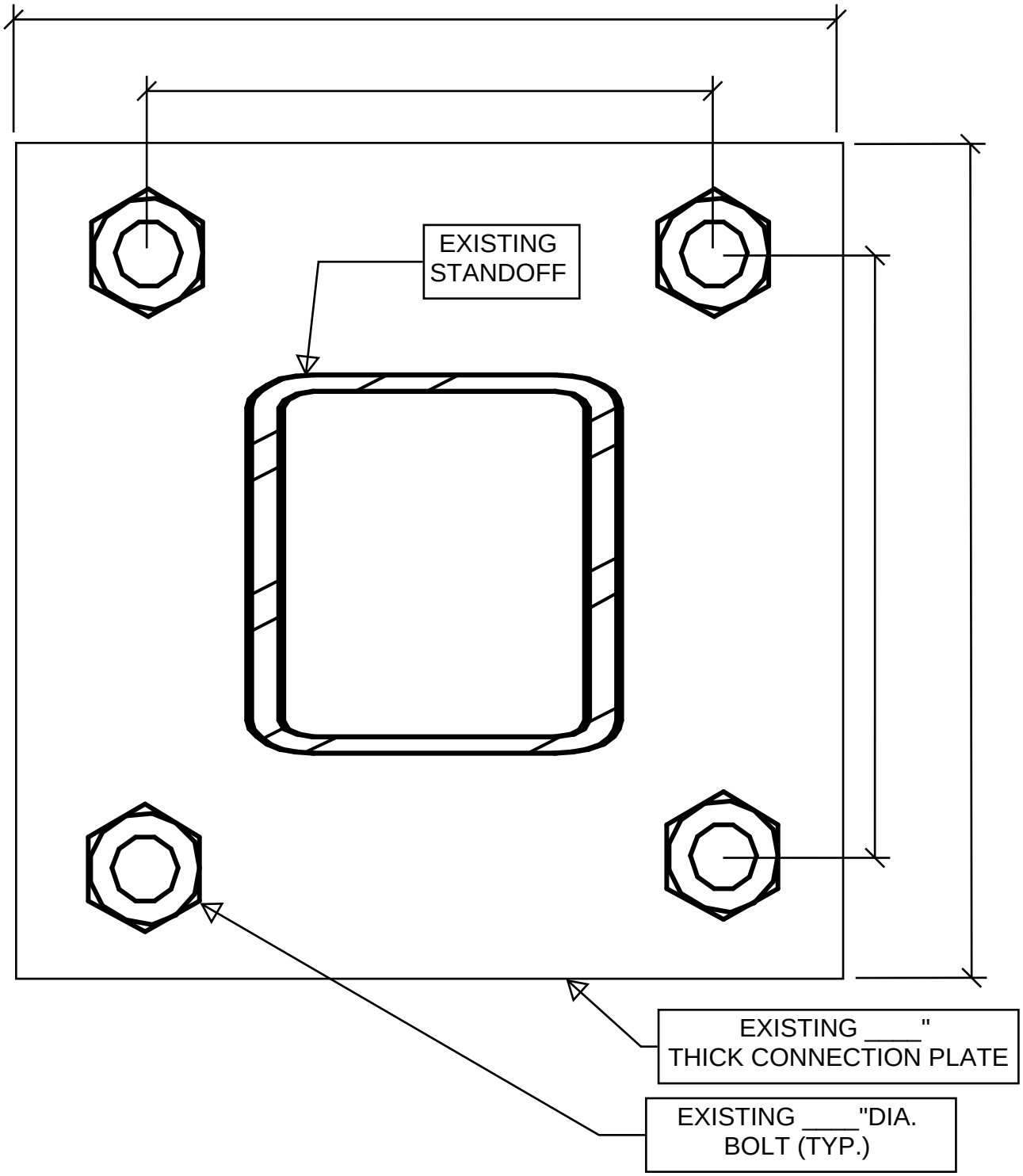
TOWER GEOMETRY VERIFICATION

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

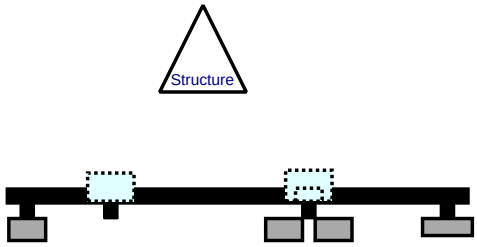
Structure: 467489-VZW - STAFFORD CT

Sector: **A** 6/8/2022

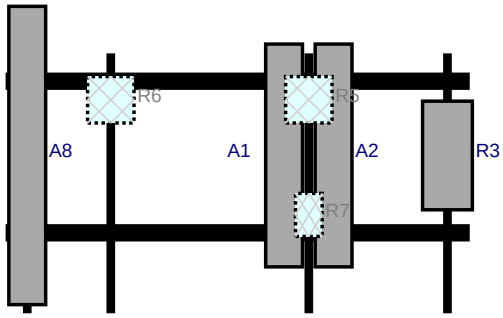
Structure Type: Monopole 10149600

Mount Elev: 113.12 Page: 1

Plan View



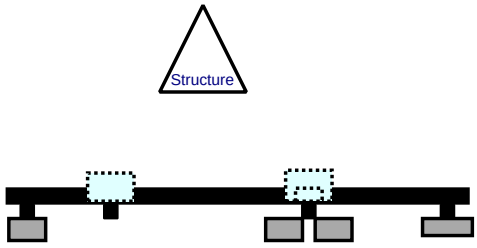
Front View - Looking at Structure



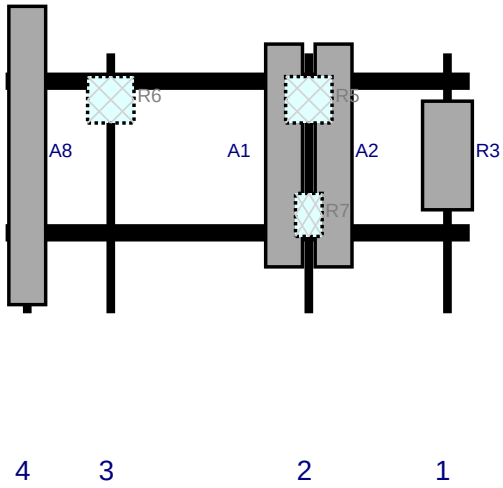
4 3 2 1

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
R3	MT6407-77A	35.1	16.1	142.8	1	a	Front	33	0	Added	
A1	NHH-65B-R2B	72	11.9	98	2	a	Front	33	-8	Added	
A2	NHHSS-65B-R2BT4	72	11.9	98	2	a	Front	33	8	Added	
R5	RF4439d-25A	15	15	98	2	a	Behind	15	0	Added	
R7	CBRS RRH - RT4401-48A	13.9	8.6	98	2	a	Behind	52.2	0	Added	
R6	RF4440d-13A	15	15	34	3	a	Behind	15	0	Added	
A8	LNX-8514DS-A1M	96.4	11.9	7	4	a	Front	33	0	Retained	
OVP1	RVZDC-6627-PF-48	29.5	16.5		Member					Added	
OVP	RVZDC-6627-PF-48	29.5	16.5		Member					Added	

Plan View

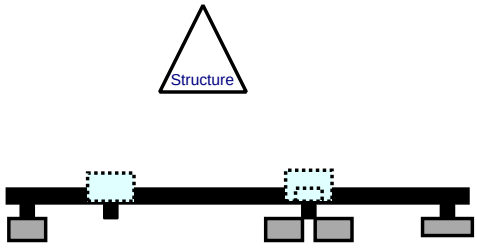


Front View - Looking at Structure

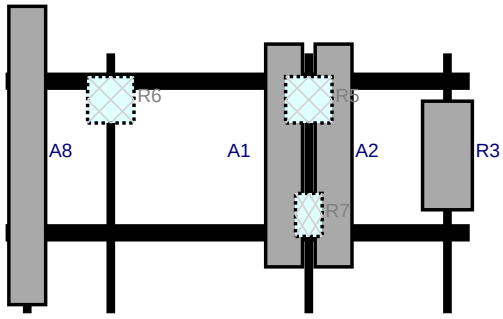


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R3	MT6407-77A	35.1	16.1	142.8	1	a	Front	33	0	Added	
A1	NHH-65B-R2B	72	11.9	98	2	a	Front	33	-8	Added	
A2	NHHSS-65B-R2BT4	72	11.9	98	2	a	Front	33	8	Added	
R5	RF4439d-25A	15	15	98	2	a	Behind	15	0	Added	
R7	CBRS RRH - RT4401-48A	13.9	8.6	98	2	a	Behind	52.2	0	Added	
R6	RF4440d-13A	15	15	34	3	a	Behind	15	0	Added	
A8	LNX-8514DS-A1M	96.4	11.9	7	4	a	Front	33	0	Retained	

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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R5	RF4439d-25A	15	15	98	2	a	Behind	15	0	Added	
R7	CBRS RRH - RT4401-48A	13.9	8.6	98	2	a	Behind	52.2	0	Added	
R6	RF4440d-13A	15	15	34	3	a	Behind	15	0	Added	
A8	LNX-8514DS-A1M	96.4	11.9	7	4	a	Front	33	0	Retained	

Colliers Engineering & Design

Desktop Mount Mapping Form

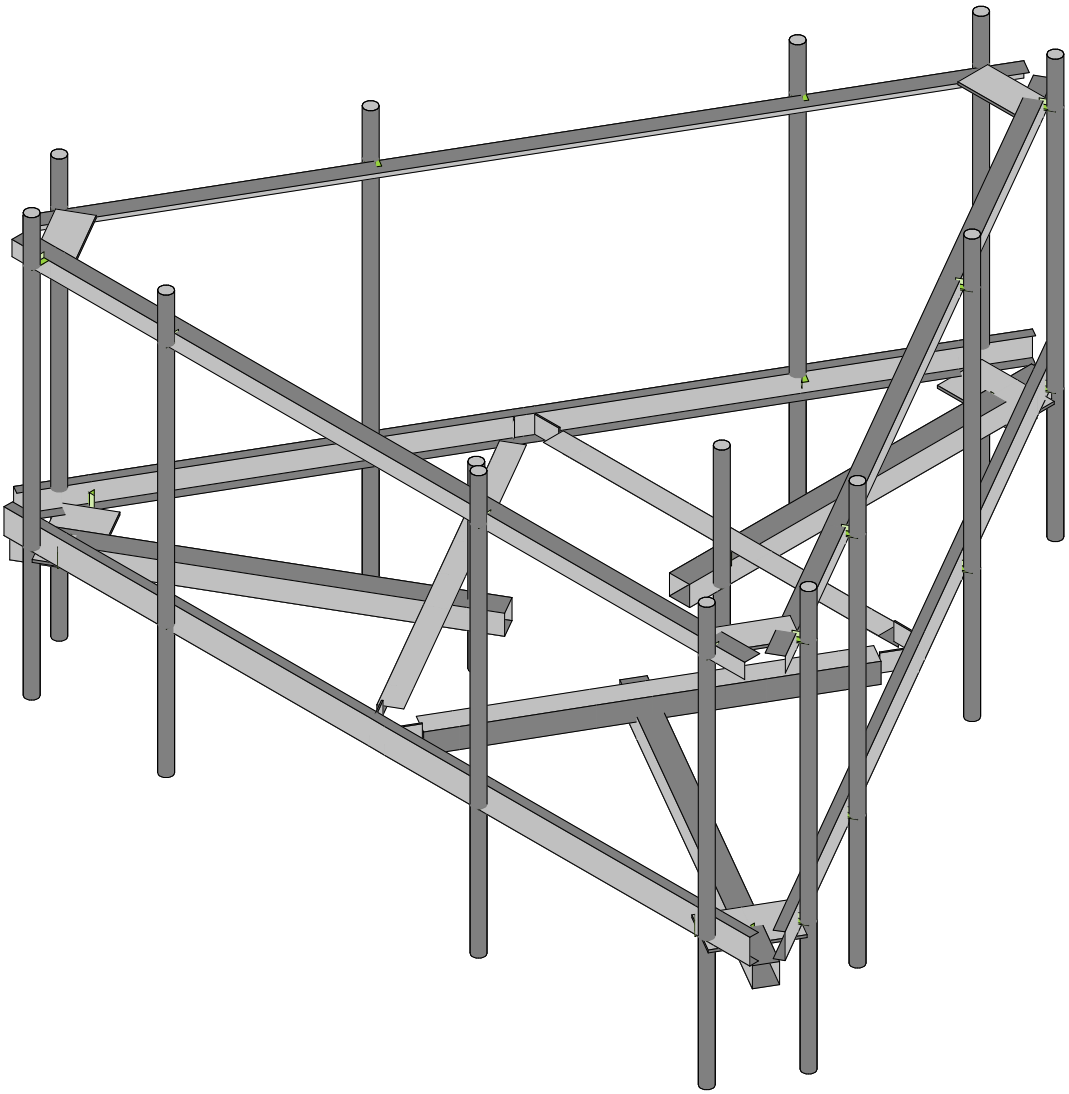
Site Name:	Stafford CT	**Tower Type:**	Monopole
Site ID:	467489	**Tower Owner:**	
FUZE Project ID:	16244115	**Tower Height (Ft.):**	
Customer:	Verizon Wireless	**Mount Elevation (Ft.):**	
Colliers Project No.	22777109A	**Date:**	6/3/2022

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



Envelope Only Solution

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		June 8, 2022 at 3:26 PM
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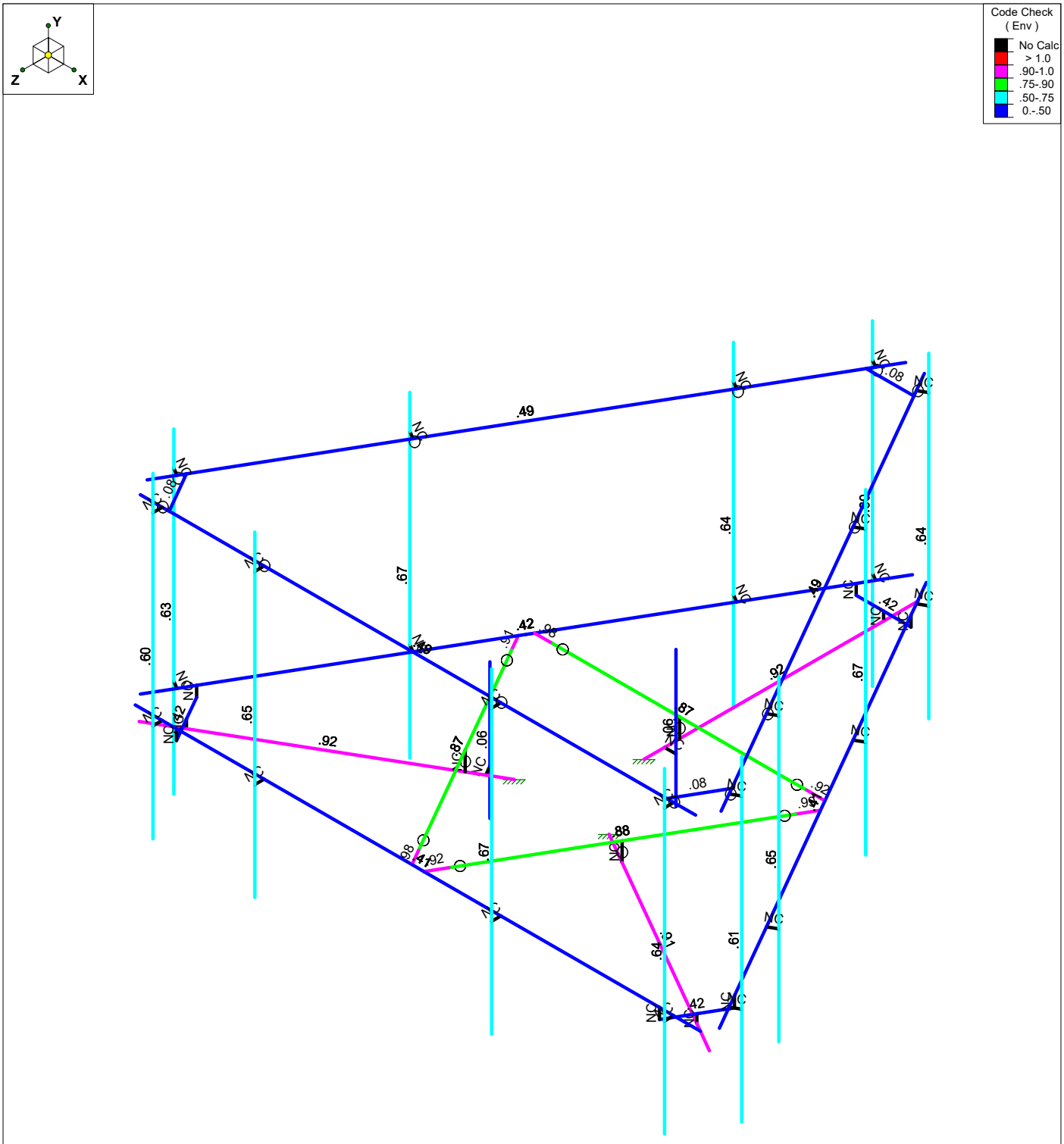

Member Code Checks Displayed (Enveloped)
Envelope Only Solution

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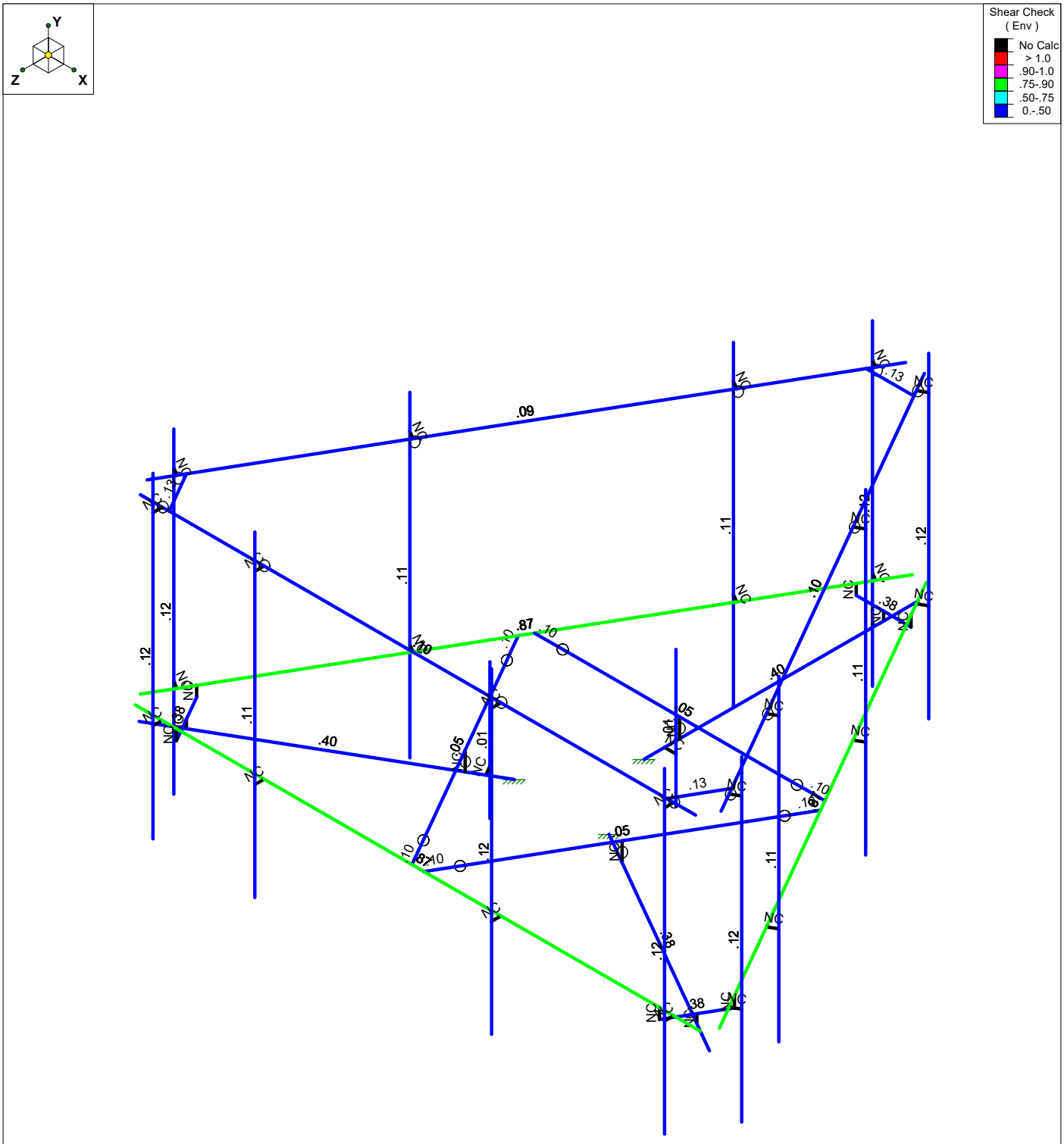

Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

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		467489-VZW_MT_LO_H.r3d

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
1	Antenna D	None					105			
2	Antenna Di	None					105			
3	Antenna Wo (0 Deg)	None					105			
4	Antenna Wo (30 Deg)	None					105			
5	Antenna Wo (60 Deg)	None					105			
6	Antenna Wo (90 Deg)	None					105			
7	Antenna Wo (120 Deg)	None					105			
8	Antenna Wo (150 Deg)	None					105			
9	Antenna Wo (180 Deg)	None					105			
10	Antenna Wo (210 Deg)	None					105			
11	Antenna Wo (240 Deg)	None					105			
12	Antenna Wo (270 Deg)	None					105			
13	Antenna Wo (300 Deg)	None					105			
14	Antenna Wo (330 Deg)	None					105			
15	Antenna Wi (0 Deg)	None					105			
16	Antenna Wi (30 Deg)	None					105			
17	Antenna Wi (60 Deg)	None					105			
18	Antenna Wi (90 Deg)	None					105			
19	Antenna Wi (120 Deg)	None					105			
20	Antenna Wi (150 Deg)	None					105			
21	Antenna Wi (180 Deg)	None					105			
22	Antenna Wi (210 Deg)	None					105			
23	Antenna Wi (240 Deg)	None					105			
24	Antenna Wi (270 Deg)	None					105			
25	Antenna Wi (300 Deg)	None					105			
26	Antenna Wi (330 Deg)	None					105			
27	Antenna Wm (0 Deg)	None					105			
28	Antenna Wm (30 Deg)	None					105			
29	Antenna Wm (60 Deg)	None					105			
30	Antenna Wm (90 Deg)	None					105			
31	Antenna Wm (120 De...	None					105			
32	Antenna Wm (150 De...	None					105			
33	Antenna Wm (180 De...	None					105			
34	Antenna Wm (210 De...	None					105			
35	Antenna Wm (240 De...	None					105			
36	Antenna Wm (270 De...	None					105			
37	Antenna Wm (300 De...	None					105			
38	Antenna Wm (330 De...	None					105			
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 D...	None						76		
46	Structure Wo (150 D...	None						76		
47	Structure Wo (180 D...	None						76		
48	Structure Wo (210 D...	None						76		
49	Structure Wo (240 D...	None						76		
50	Structure Wo (270 D...	None						76		
51	Structure Wo (300 D...	None						76		
52	Structure Wo (330 D...	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 De...	None						76		
58	Structure Wi (150 De...	None						76		

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
59	Structure Wi (180 De...	None						76		
60	Structure Wi (210 De...	None						76		
61	Structure Wi (240 De...	None						76		
62	Structure Wi (270 De...	None						76		
63	Structure Wi (300 De...	None						76		
64	Structure Wi (330 De...	None						76		
65	Structure Wm (0 Deg)	None						76		
66	Structure Wm (30 De...	None						76		
67	Structure Wm (60 De...	None						76		
68	Structure Wm (90 De...	None						76		
69	Structure Wm (120 D...	None						76		
70	Structure Wm (150 D...	None						76		
71	Structure Wm (180 D...	None						76		
72	Structure Wm (210 D...	None						76		
73	Structure Wm (240 D...	None						76		
74	Structure Wm (270 D...	None						76		
75	Structure Wm (300 D...	None						76		
76	Structure Wm (330 D...	None						76		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	Antenna Ev	None					105			
82	Antenna Eh (0 Deg)	None					70			
83	Antenna Eh (90 Deg)	None					70			
84	Structure Ev	ELY		-.038						
85	Structure Eh (0 Deg)	ELZ			-.094					
86	Structure Eh (90 Deg)	ELX	.094							
87	BLC 39 Transient Are...	None						69		
88	BLC 40 Transient Are...	None						69		

Load Combinations

	Description	Sol..	PD..	SR..	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...
1	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	3	1	41	1												
2	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	4	1	42	1												
3	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	5	1	43	1												
4	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	6	1	44	1												
5	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	7	1	45	1												
6	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	8	1	46	1												
7	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	9	1	47	1												
8	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	10	1	48	1												
9	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	11	1	49	1												
10	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	12	1	50	1												
11	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	13	1	51	1												
12	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	14	1	52	1												
13	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1								
14	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1								
15	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1								
16	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1								
17	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1								
18	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1								
19	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1								
20	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1								
21	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1								
22	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1								
23	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1								
24	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1								

Load Combinations (Continued)

	Description	Sol..	PD..	SR..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..
25	1.2D + 1.5..	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1										
26	1.2D + 1.5..	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1										
27	1.2D + 1.5..	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1										
28	1.2D + 1.5..	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1										
29	1.2D + 1.5..	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1										
30	1.2D + 1.5..	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1										
31	1.2D + 1.5..	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1										
32	1.2D + 1.5..	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1										
33	1.2D + 1.5..	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1										
34	1.2D + 1.5..	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1										
35	1.2D + 1.5..	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1										
36	1.2D + 1.5..	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1										
37	1.2D + 1.5..	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1										
38	1.2D + 1.5..	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1										
39	1.2D + 1.5..	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1										
40	1.2D + 1.5..	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1										
41	1.2D + 1.5..	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1										
42	1.2D + 1.5..	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1										
43	1.2D + 1.5..	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1										
44	1.2D + 1.5..	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1										
45	1.2D + 1.5..	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1										
46	1.2D + 1.5..	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1										
47	1.2D + 1.5..	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1										
48	1.2D + 1.5..	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1										
49	1.2D + 1.5..	Yes	Y		1	1.2	39	1.2	79	1.5														
50	1.2D + 1.5..	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 + 1.0..	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	1	83		ELZ	1	ELX					
53	1.2D + 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 + 1.0..	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.5	83	.866	ELZ	.5	ELX	.866				
55	1.2D + 1.0..	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82		83	1	ELZ		ELX	1				
56	1.2D + 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 + 1.0..	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.866	83	.5	ELZ	-.866	ELX	.5				
58	1.2D + 1.0..	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-1	83		ELZ	-1	ELX					
59	1.2D + 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 + 1.0..	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	-.866	ELZ	-.5	ELX	-.866				
61	1.2D + 1.0..	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82		83	-1	ELZ		ELX	-1				
62	1.2D + 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 + 1.0..	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.866	83	-.5	ELZ	.866	ELX	-.5				
64	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	1	83		ELZ	1	ELX					
65	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83	.5	ELZ	.866	ELX	.5				
66	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.5	83	.866	ELZ	.5	ELX	.866				
67	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82		83	1	ELZ		ELX	1				
68	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	.866	ELZ	-.5	ELX	.866				
69	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	.5	ELZ	-.866	ELX	.5				
70	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-1	83		ELZ	-1	ELX					
71	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	-.5	ELZ	-.866	ELX	-.5				
72	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	-.866	ELZ	-.5	ELX	-.866				
73	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82		83	-1	ELZ		ELX	-1				
74	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.5	83	-.866	ELZ	.5	ELX	-.866				
75	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83	-.5	ELZ	.866	ELX	-.5				

Joint Coordinates and Temperatures

	Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
1	N141A	74.999998	0	45.403268	0	
2	N142A	-74.999989	0	45.403268	0	
3	N146	76.820386	0	42.250263	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
4	N147	1.820392	0	-87.653536	0	
5	N151	-76.820377	0	42.250263	0	
6	N152A	-1.820384	0	-87.653536	0	
7	N152B	0.000004	0	-0.000002	0	
8	N153A	-0.	-5	-14.563107	0	
9	N154A	-0.	-5	-87.378635	0	
10	N155	1.577674	0	45.403268	0	
11	N156	-1.577666	0	45.403268	0	
12	N158	38.531554	0	-24.06794	0	
13	N159	40.10922	0	-21.335342	0	
14	N161	-40.10922	0	-21.335327	0	
15	N162	-38.531549	0	-24.067932	0	
16	N161B	-33.677182	0	-24.067932	0	
17	N162A	33.677178	0	-24.06794	0	
18	N163	-0.	0	-24.067932	0	
19	N164	-0.	-5	-24.067936	0	
20	N168	7.286949	0	-78.185183	0	
21	N169	-7.28694	0	-78.185183	0	
22	N168A	-0.	-2.75	-78.185183	0	
23	N169A	7.286949	-2.75	-78.185183	0	
24	N170	-7.28694	-2.75	-78.185183	0	
25	N170A	-0.	-5	-78.185183	0	
26	N171	-12.612021	-5	7.281554	0	
27	N172	-75.672117	-5	43.689317	0	
28	N175	-4.00485	0	41.199261	0	
29	N176	-37.682036	0	-17.131322	0	
30	N177	-20.843444	0	12.033968	0	
31	N178	-20.843444	-5	12.033968	0	
32	N179	-71.35382	0	32.781909	0	
33	N180	-64.066884	0	45.403268	0	
34	N181	-67.710354	-2.75	39.092591	0	
35	N182	-71.353829	-2.75	32.781909	0	
36	N183	-64.066884	-2.75	45.403267	0	
37	N184	-67.710354	-5	39.092591	0	
38	N185	12.612021	-5	7.281554	0	
39	N186	75.672117	-5	43.689317	0	
40	N189	37.682032	0	-17.131329	0	
41	N190	4.004858	0	41.199261	0	
42	N191	20.843444	0	12.033968	0	
43	N192	20.843444	-5	12.033968	0	
44	N193	64.06688	0	45.403268	0	
45	N194	71.353833	0	32.781916	0	
46	N195	67.710354	-2.75	39.092591	0	
47	N196	64.06688	-2.75	45.403274	0	
48	N197	71.353825	-2.75	32.781916	0	
49	N198	67.710354	-5	39.092591	0	
50	N198A	73.679609	49	45.403268	0	
51	N199	-73.679601	49	45.403268	0	
52	N203	2.480579	49	-86.510047	0	
53	N204	76.160184	49	41.106772	0	
54	N208	-76.160188	49	41.106779	0	
55	N209	-2.480583	49	-86.51004	0	
56	N210	6.311611	49	-79.874504	0	
57	N211	-6.311611	49	-79.874504	0	
58	N209A	-72.329155	49	34.471236	0	
59	N210A	-66.017544	49	45.403268	0	
60	N211A	66.017544	49	45.403268	0	
61	N212	72.329155	49	34.471236	0	
62	N213	-67.854359	49	45.403268	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
63	N214	67.854367	49	45.403268	0	
64	N215	22.000973	49	45.403268	0	
65	N216	-40.850965	49	45.403268	0	
66	N214A	-67.854359	0	45.403268	0	
67	N215A	67.854367	0	45.403268	0	
68	N216A	22.000973	0	45.403268	0	
69	N217	-40.850965	0	45.403268	0	
70	N218	-67.854359	49	47.830452	0	
71	N219A	67.854367	49	47.830452	0	
72	N220A	22.000973	49	47.830452	0	
73	N221A	-40.850965	49	47.830452	0	
74	N222	-67.854359	0	47.830452	0	
75	N223A	67.854367	0	47.830452	0	
76	N224A	22.000973	0	47.830452	0	
77	N225A	-40.850965	0	47.830452	0	
78	N226A	-67.854359	58	47.830452	0	
79	N227A	67.854367	58	47.830452	0	
80	N228A	22.000973	58	47.830452	0	
81	N229	-40.850965	58	47.830452	0	
82	N230	-67.854359	-26	47.830452	0	
83	N231	67.854367	-26	47.830452	0	
84	N232	22.000973	-26	47.830452	0	
85	N233	-40.850965	-26	47.830452	0	
86	N234	73.247563	49	36.061964	0	
87	N235	5.3932	49	-81.46524	0	
88	N236	28.319897	49	-41.755035	0	
89	N237	59.745866	49	12.676339	0	
90	N238	73.247568	0	36.061961	0	
91	N239	5.393205	0	-81.465243	0	
92	N240	28.319902	0	-41.755039	0	
93	N241	59.745871	0	12.676336	0	
94	N242	75.349566	49	34.848372	0	
95	N243	7.495203	49	-82.678832	0	
96	N244	30.4219	49	-42.968628	0	
97	N245	61.847869	49	11.462747	0	
98	N246	75.349566	0	34.848372	0	
99	N247	7.495203	0	-82.678832	0	
100	N248	30.4219	0	-42.968628	0	
101	N249	61.847869	0	11.462747	0	
102	N250	75.349566	58	34.848372	0	
103	N251	7.495203	58	-82.678832	0	
104	N252	30.4219	58	-42.968628	0	
105	N253	61.847869	58	11.462747	0	
106	N254	75.349566	-26	34.848372	0	
107	N255	7.495203	-26	-82.678832	0	
108	N256	30.4219	-26	-42.968628	0	
109	N257	61.847869	-26	11.462747	0	
110	N258	-5.393204	49	-81.465232	0	
111	N259	-73.247567	49	36.061972	0	
112	N260	-50.32087	49	-3.648232	0	
113	N261	-18.894901	49	-58.079607	0	
114	N262	-5.393203	0	-81.465232	0	
115	N263	-73.247566	0	36.061972	0	
116	N264	-50.320869	0	-3.648232	0	
117	N265	-18.8949	0	-58.079606	0	
118	N266	-7.495207	49	-82.678824	0	
119	N267	-75.34957	49	34.84838	0	
120	N268	-52.422873	49	-4.861824	0	
121	N269	-20.996904	49	-59.293199	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
122	N270	-7.495207	0	-82.678824	0	
123	N271	-75.34957	0	34.84838	0	
124	N272	-52.422873	0	-4.861824	0	
125	N273	-20.996904	0	-59.293199	0	
126	N274	-7.495207	58	-82.678824	0	
127	N275	-75.34957	58	34.84838	0	
128	N276	-52.422873	58	-4.861824	0	
129	N277	-20.996904	58	-59.293199	0	
130	N278	-7.495207	-26	-82.678824	0	
131	N279	-75.34957	-26	34.84838	0	
132	N280	-52.422873	-26	-4.861824	0	
133	N281	-20.996904	-26	-59.293199	0	
134	N140	-16.712092	0	19.189678	0	
135	N141	-6.622474	0	36.665405	0	
136	N142	16.712094	0	19.189678	0	
137	N143	6.622481	0	36.665405	0	
138	N138	24.974795	0	4.878257	0	
139	N139	35.064409	0	-12.597472	0	
140	N140A	8.262702	0	-24.067937	0	
141	N141B	28.441931	0	-24.067939	0	
142	N142B	-8.262703	0	-24.067935	0	
143	N143A	-28.441935	0	-24.067933	0	
144	N144	-24.974796	0	4.878259	0	
145	N145	-35.064412	0	-12.597465	0	
146	N146A	-0.	-5	-20.067936	0	
147	N147A	3.	-5	-20.067936	0	
148	N148	3.	19	-20.067936	0	
149	N149	3.	-17	-20.067936	0	
150	N150	-17.379342	-5	10.033968	0	
151	N151A	-18.879342	-5	7.435892	0	
152	N152	-18.879342	19	7.435892	0	
153	N153	-18.879342	-17	7.435892	0	
154	N154	29.262738	0	-2.548681	0	
155	N155A	-39.320381	0	-22.701637	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design...	A [in2]	Iyy [in...	Izz [in...	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 Pl...	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

Hot Rolled Steel Properties

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

Hot Rolled Steel Properties (Continued)

	Label	E [ksi]	G [ksi]	Nu	Therm (/1...	Density[k/...	Yield[ksi]	Ry	Fu[ksi]	Rt
7	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3

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 Pl...	Beam	RECT	A36 Gr.36	Typical
35	M107	N210A	N209A		90	Support Rail Pl...	Beam	RECT	A36 Gr.36	Typical
36	M108	N212	N211A		90	Support Rail Pl...	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
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

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
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				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
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

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
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[in,%]
1	MP2A	Y	-21.85	6
2	MP2A	My	-.015	6
3	MP2A	Mz	-.015	6
4	MP2A	Y	-21.85	60
5	MP2A	My	-.015	60
6	MP2A	Mz	-.015	60
7	MP2B	Y	-21.85	6
8	MP2B	My	.02	6
9	MP2B	Mz	-.005	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
10	MP2B	Y	-21.85	60
11	MP2B	My	.02	60
12	MP2B	Mz	-.005	60
13	MP2C	Y	-21.85	6
14	MP2C	My	-.005	6
15	MP2C	Mz	.02	6
16	MP2C	Y	-21.85	60
17	MP2C	My	-.005	60
18	MP2C	Mz	.02	60
19	MP2A	Y	-32.3	6
20	MP2A	My	-.022	6
21	MP2A	Mz	.022	6
22	MP2A	Y	-32.3	60
23	MP2A	My	-.022	60
24	MP2A	Mz	.022	60
25	MP2B	Y	-32.3	6
26	MP2B	My	-.008	6
27	MP2B	Mz	-.029	6
28	MP2B	Y	-32.3	60
29	MP2B	My	-.008	60
30	MP2B	Mz	-.029	60
31	MP2C	Y	-32.3	6
32	MP2C	My	.029	6
33	MP2C	Mz	.008	6
34	MP2C	Y	-32.3	60
35	MP2C	My	.029	60
36	MP2C	Mz	.008	60
37	MP1A	Y	-43.55	21
38	MP1A	My	-.029	21
39	MP1A	Mz	0	21
40	MP1A	Y	-43.55	45
41	MP1A	My	-.029	45
42	MP1A	Mz	0	45
43	MP1B	Y	-43.55	21
44	MP1B	My	.015	21
45	MP1B	Mz	-.025	21
46	MP1B	Y	-43.55	45
47	MP1B	My	.015	45
48	MP1B	Mz	-.025	45
49	MP1C	Y	-43.55	21
50	MP1C	My	.015	21
51	MP1C	Mz	.025	21
52	MP1C	Y	-43.55	45
53	MP1C	My	.015	45
54	MP1C	Mz	.025	45
55	OVP1	Y	-32	12
56	OVP1	My	0	12
57	OVP1	Mz	0	12
58	MP2A	Y	-74.7	15
59	MP2A	My	.062	15
60	MP2A	Mz	0	15
61	MP2B	Y	-74.7	15
62	MP2B	My	-.031	15
63	MP2B	Mz	.054	15
64	MP2C	Y	-74.7	15
65	MP2C	My	-.031	15
66	MP2C	Mz	-.054	15
67	MP3A	Y	-70.3	15
68	MP3A	My	.059	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
69	MP3A	Mz	0	15
70	MP3B	Y	-70.3	15
71	MP3B	My	-.029	15
72	MP3B	Mz	.051	15
73	MP3C	Y	-70.3	15
74	MP3C	My	-.029	15
75	MP3C	Mz	-.051	15
76	MP2A	Y	-18.7	52.2
77	MP2A	My	.008	52.2
78	MP2A	Mz	0	52.2
79	MP2B	Y	-18.7	52.2
80	MP2B	My	-.004	52.2
81	MP2B	Mz	.007	52.2
82	MP2C	Y	-18.7	52.2
83	MP2C	My	-.004	52.2
84	MP2C	Mz	-.007	52.2
85	MP4A	Y	-24.6	6
86	MP4A	My	-.016	6
87	MP4A	Mz	.003	6
88	MP4A	Y	-24.6	60
89	MP4A	My	-.016	60
90	MP4A	Mz	.003	60
91	MP4B	Y	-24.6	6
92	MP4B	My	.008	6
93	MP4B	Mz	-.014	6
94	MP4B	Y	-24.6	60
95	MP4B	My	.008	60
96	MP4B	Mz	-.014	60
97	MP4C	Y	-24.6	6
98	MP4C	My	.008	6
99	MP4C	Mz	.014	6
100	MP4C	Y	-24.6	60
101	MP4C	My	.008	60
102	MP4C	Mz	.014	60
103	OVP	Y	-32	12
104	OVP	My	0	12
105	OVP	Mz	0	12

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	Y	-96.62	6
2	MP2A	My	-.064	6
3	MP2A	Mz	-.064	6
4	MP2A	Y	-96.62	60
5	MP2A	My	-.064	60
6	MP2A	Mz	-.064	60
7	MP2B	Y	-96.62	6
8	MP2B	My	.088	6
9	MP2B	Mz	-.024	6
10	MP2B	Y	-96.62	60
11	MP2B	My	.088	60
12	MP2B	Mz	-.024	60
13	MP2C	Y	-96.62	6
14	MP2C	My	-.024	6
15	MP2C	Mz	.088	6
16	MP2C	Y	-96.62	60
17	MP2C	My	-.024	60
18	MP2C	Mz	.088	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
19	MP2A	Y	-96.62	6
20	MP2A	My	-.064	6
21	MP2A	Mz	.064	6
22	MP2A	Y	-96.62	60
23	MP2A	My	-.064	60
24	MP2A	Mz	.064	60
25	MP2B	Y	-96.62	6
26	MP2B	My	-.024	6
27	MP2B	Mz	-.088	6
28	MP2B	Y	-96.62	60
29	MP2B	My	-.024	60
30	MP2B	Mz	-.088	60
31	MP2C	Y	-96.62	6
32	MP2C	My	.088	6
33	MP2C	Mz	.024	6
34	MP2C	Y	-96.62	60
35	MP2C	My	.088	60
36	MP2C	Mz	.024	60
37	MP1A	Y	-57.04	21
38	MP1A	My	-.038	21
39	MP1A	Mz	0	21
40	MP1A	Y	-57.04	45
41	MP1A	My	-.038	45
42	MP1A	Mz	0	45
43	MP1B	Y	-57.04	21
44	MP1B	My	.019	21
45	MP1B	Mz	-.033	21
46	MP1B	Y	-57.04	45
47	MP1B	My	.019	45
48	MP1B	Mz	-.033	45
49	MP1C	Y	-57.04	21
50	MP1C	My	.019	21
51	MP1C	Mz	.033	21
52	MP1C	Y	-57.04	45
53	MP1C	My	.019	45
54	MP1C	Mz	.033	45
55	OVP1	Y	-139.514	12
56	OVP1	My	0	12
57	OVP1	Mz	0	12
58	MP2A	Y	-72.511	15
59	MP2A	My	.06	15
60	MP2A	Mz	0	15
61	MP2B	Y	-72.511	15
62	MP2B	My	-.03	15
63	MP2B	Mz	.052	15
64	MP2C	Y	-72.511	15
65	MP2C	My	-.03	15
66	MP2C	Mz	-.052	15
67	MP3A	Y	-69.178	15
68	MP3A	My	.058	15
69	MP3A	Mz	0	15
70	MP3B	Y	-69.178	15
71	MP3B	My	-.029	15
72	MP3B	Mz	.05	15
73	MP3C	Y	-69.178	15
74	MP3C	My	-.029	15
75	MP3C	Mz	-.05	15
76	MP2A	Y	-33.212	52.2
77	MP2A	My	.014	52.2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
78	MP2A	Mz	0	52.2
79	MP2B	Y	-33.212	52.2
80	MP2B	My	-.007	52.2
81	MP2B	Mz	.012	52.2
82	MP2C	Y	-33.212	52.2
83	MP2C	My	-.007	52.2
84	MP2C	Mz	-.012	52.2
85	MP4A	Y	-126.623	6
86	MP4A	My	-.083	6
87	MP4A	Mz	.015	6
88	MP4A	Y	-126.623	60
89	MP4A	My	-.083	60
90	MP4A	Mz	.015	60
91	MP4B	Y	-126.623	6
92	MP4B	My	.042	6
93	MP4B	Mz	-.073	6
94	MP4B	Y	-126.623	60
95	MP4B	My	.042	60
96	MP4B	Mz	-.073	60
97	MP4C	Y	-126.623	6
98	MP4C	My	.042	6
99	MP4C	Mz	.073	6
100	MP4C	Y	-126.623	60
101	MP4C	My	.042	60
102	MP4C	Mz	.073	60
103	OVP	Y	-139.514	12
104	OVP	My	0	12
105	OVP	Mz	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	0	6
2	MP2A	Z	-89.245	6
3	MP2A	Mx	.059	6
4	MP2A	X	0	60
5	MP2A	Z	-89.245	60
6	MP2A	Mx	.059	60
7	MP2B	X	0	6
8	MP2B	Z	-51.032	6
9	MP2B	Mx	.012	6
10	MP2B	X	0	60
11	MP2B	Z	-51.032	60
12	MP2B	Mx	.012	60
13	MP2C	X	0	6
14	MP2C	Z	-51.032	6
15	MP2C	Mx	-.046	6
16	MP2C	X	0	60
17	MP2C	Z	-51.032	60
18	MP2C	Mx	-.046	60
19	MP2A	X	0	6
20	MP2A	Z	-132.306	6
21	MP2A	Mx	-.088	6
22	MP2A	X	0	60
23	MP2A	Z	-132.306	60
24	MP2A	Mx	-.088	60
25	MP2B	X	0	6
26	MP2B	Z	-98.922	6
27	MP2B	Mx	.09	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
28	MP2B	X	0	60
29	MP2B	Z	-98.922	60
30	MP2B	Mx	.09	60
31	MP2C	X	0	6
32	MP2C	Z	-98.922	6
33	MP2C	Mx	-.024	6
34	MP2C	X	0	60
35	MP2C	Z	-98.922	60
36	MP2C	Mx	-.024	60
37	MP1A	X	0	21
38	MP1A	Z	-64.427	21
39	MP1A	Mx	0	21
40	MP1A	X	0	45
41	MP1A	Z	-64.427	45
42	MP1A	Mx	0	45
43	MP1B	X	0	21
44	MP1B	Z	-32.748	21
45	MP1B	Mx	.019	21
46	MP1B	X	0	45
47	MP1B	Z	-32.748	45
48	MP1B	Mx	.019	45
49	MP1C	X	0	21
50	MP1C	Z	-32.748	21
51	MP1C	Mx	-.019	21
52	MP1C	X	0	45
53	MP1C	Z	-32.748	45
54	MP1C	Mx	-.019	45
55	OVP1	X	0	12
56	OVP1	Z	-104.202	12
57	OVP1	Mx	0	12
58	MP2A	X	0	15
59	MP2A	Z	-50.95	15
60	MP2A	Mx	0	15
61	MP2B	X	0	15
62	MP2B	Z	-38.377	15
63	MP2B	Mx	-.028	15
64	MP2C	X	0	15
65	MP2C	Z	-38.377	15
66	MP2C	Mx	.028	15
67	MP3A	X	0	15
68	MP3A	Z	-50.95	15
69	MP3A	Mx	0	15
70	MP3B	X	0	15
71	MP3B	Z	-35.912	15
72	MP3B	Mx	-.026	15
73	MP3C	X	0	15
74	MP3C	Z	-35.912	15
75	MP3C	Mx	.026	15
76	MP2A	X	0	52.2
77	MP2A	Z	-23.667	52.2
78	MP2A	Mx	0	52.2
79	MP2B	X	0	52.2
80	MP2B	Z	-14.299	52.2
81	MP2B	Mx	-.005	52.2
82	MP2C	X	0	52.2
83	MP2C	Z	-14.299	52.2
84	MP2C	Mx	.005	52.2
85	MP4A	X	0	6
86	MP4A	Z	-186.646	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
87	MP4A	Mx	-.022	6
88	MP4A	X	0	60
89	MP4A	Z	-186.646	60
90	MP4A	Mx	-.022	60
91	MP4B	X	0	6
92	MP4B	Z	-142	6
93	MP4B	Mx	.082	6
94	MP4B	X	0	60
95	MP4B	Z	-142	60
96	MP4B	Mx	.082	60
97	MP4C	X	0	6
98	MP4C	Z	-142	6
99	MP4C	Mx	-.082	6
100	MP4C	X	0	60
101	MP4C	Z	-142	60
102	MP4C	Mx	-.082	60
103	OVP	X	0	12
104	OVP	Z	-104.202	12
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	38.254	6
2	MP2A	Z	-66.258	6
3	MP2A	Mx	.019	6
4	MP2A	X	38.254	60
5	MP2A	Z	-66.258	60
6	MP2A	Mx	.019	60
7	MP2B	X	19.147	6
8	MP2B	Z	-33.164	6
9	MP2B	Mx	.026	6
10	MP2B	X	19.147	60
11	MP2B	Z	-33.164	60
12	MP2B	Mx	.026	60
13	MP2C	X	38.254	6
14	MP2C	Z	-66.258	6
15	MP2C	Mx	-.07	6
16	MP2C	X	38.254	60
17	MP2C	Z	-66.258	60
18	MP2C	Mx	-.07	60
19	MP2A	X	60.589	6
20	MP2A	Z	-104.943	6
21	MP2A	Mx	-.11	6
22	MP2A	X	60.589	60
23	MP2A	Z	-104.943	60
24	MP2A	Mx	-.11	60
25	MP2B	X	43.897	6
26	MP2B	Z	-76.031	6
27	MP2B	Mx	.059	6
28	MP2B	X	43.897	60
29	MP2B	Z	-76.031	60
30	MP2B	Mx	.059	60
31	MP2C	X	60.589	6
32	MP2C	Z	-104.943	6
33	MP2C	Mx	.03	6
34	MP2C	X	60.589	60
35	MP2C	Z	-104.943	60
36	MP2C	Mx	.03	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
37	MP1A	X	26.934	21
38	MP1A	Z	-46.651	21
39	MP1A	Mx	-.018	21
40	MP1A	X	26.934	45
41	MP1A	Z	-46.651	45
42	MP1A	Mx	-.018	45
43	MP1B	X	11.094	21
44	MP1B	Z	-19.215	21
45	MP1B	Mx	.015	21
46	MP1B	X	11.094	45
47	MP1B	Z	-19.215	45
48	MP1B	Mx	.015	45
49	MP1C	X	26.934	21
50	MP1C	Z	-46.651	21
51	MP1C	Mx	-.018	21
52	MP1C	X	26.934	45
53	MP1C	Z	-46.651	45
54	MP1C	Mx	-.018	45
55	OVP1	X	48.978	12
56	OVP1	Z	-84.832	12
57	OVP1	Mx	0	12
58	MP2A	X	23.38	15
59	MP2A	Z	-40.495	15
60	MP2A	Mx	.019	15
61	MP2B	X	17.093	15
62	MP2B	Z	-29.606	15
63	MP2B	Mx	-.028	15
64	MP2C	X	23.38	15
65	MP2C	Z	-40.495	15
66	MP2C	Mx	.019	15
67	MP3A	X	22.969	15
68	MP3A	Z	-39.783	15
69	MP3A	Mx	.019	15
70	MP3B	X	15.449	15
71	MP3B	Z	-26.759	15
72	MP3B	Mx	-.026	15
73	MP3C	X	22.969	15
74	MP3C	Z	-39.783	15
75	MP3C	Mx	.019	15
76	MP2A	X	10.272	52.2
77	MP2A	Z	-17.792	52.2
78	MP2A	Mx	.004	52.2
79	MP2B	X	5.588	52.2
80	MP2B	Z	-9.679	52.2
81	MP2B	Mx	-.005	52.2
82	MP2C	X	10.272	52.2
83	MP2C	Z	-17.792	52.2
84	MP2C	Mx	.004	52.2
85	MP4A	X	81.445	6
86	MP4A	Z	-141.067	6
87	MP4A	Mx	-.07	6
88	MP4A	X	81.445	60
89	MP4A	Z	-141.067	60
90	MP4A	Mx	-.07	60
91	MP4B	X	63.247	6
92	MP4B	Z	-109.547	6
93	MP4B	Mx	.084	6
94	MP4B	X	63.247	60
95	MP4B	Z	-109.547	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
96	MP4B	Mx	.084	60
97	MP4C	X	86.505	6
98	MP4C	Z	-149.832	6
99	MP4C	Mx	-.058	6
100	MP4C	X	86.505	60
101	MP4C	Z	-149.832	60
102	MP4C	Mx	-.058	60
103	OVP	X	48.978	12
104	OVP	Z	-84.832	12
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	44.195	6
2	MP2A	Z	-25.516	6
3	MP2A	Mx	-.012	6
4	MP2A	X	44.195	60
5	MP2A	Z	-25.516	60
6	MP2A	Mx	-.012	60
7	MP2B	X	44.195	6
8	MP2B	Z	-25.516	6
9	MP2B	Mx	.046	6
10	MP2B	X	44.195	60
11	MP2B	Z	-25.516	60
12	MP2B	Mx	.046	60
13	MP2C	X	77.289	6
14	MP2C	Z	-44.623	6
15	MP2C	Mx	-.059	6
16	MP2C	X	77.289	60
17	MP2C	Z	-44.623	60
18	MP2C	Mx	-.059	60
19	MP2A	X	85.669	6
20	MP2A	Z	-49.461	6
21	MP2A	Mx	-.09	6
22	MP2A	X	85.669	60
23	MP2A	Z	-49.461	60
24	MP2A	Mx	-.09	60
25	MP2B	X	85.669	6
26	MP2B	Z	-49.461	6
27	MP2B	Mx	.024	6
28	MP2B	X	85.669	60
29	MP2B	Z	-49.461	60
30	MP2B	Mx	.024	60
31	MP2C	X	114.581	6
32	MP2C	Z	-66.153	6
33	MP2C	Mx	.088	6
34	MP2C	X	114.581	60
35	MP2C	Z	-66.153	60
36	MP2C	Mx	.088	60
37	MP1A	X	28.36	21
38	MP1A	Z	-16.374	21
39	MP1A	Mx	-.019	21
40	MP1A	X	28.36	45
41	MP1A	Z	-16.374	45
42	MP1A	Mx	-.019	45
43	MP1B	X	28.36	21
44	MP1B	Z	-16.374	21
45	MP1B	Mx	.019	21

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
46	MP1B	X	28.36	45
47	MP1B	Z	-16.374	45
48	MP1B	Mx	.019	45
49	MP1C	X	55.796	21
50	MP1C	Z	-32.214	21
51	MP1C	Mx	0	21
52	MP1C	X	55.796	45
53	MP1C	Z	-32.214	45
54	MP1C	Mx	0	45
55	OVP1	X	74.015	12
56	OVP1	Z	-42.732	12
57	OVP1	Mx	0	12
58	MP2A	X	33.236	15
59	MP2A	Z	-19.189	15
60	MP2A	Mx	.028	15
61	MP2B	X	33.236	15
62	MP2B	Z	-19.189	15
63	MP2B	Mx	-.028	15
64	MP2C	X	44.124	15
65	MP2C	Z	-25.475	15
66	MP2C	Mx	0	15
67	MP3A	X	31.1	15
68	MP3A	Z	-17.956	15
69	MP3A	Mx	.026	15
70	MP3B	X	31.1	15
71	MP3B	Z	-17.956	15
72	MP3B	Mx	-.026	15
73	MP3C	X	44.124	15
74	MP3C	Z	-25.475	15
75	MP3C	Mx	0	15
76	MP2A	X	12.383	52.2
77	MP2A	Z	-7.149	52.2
78	MP2A	Mx	.005	52.2
79	MP2B	X	12.383	52.2
80	MP2B	Z	-7.149	52.2
81	MP2B	Mx	-.005	52.2
82	MP2C	X	20.496	52.2
83	MP2C	Z	-11.834	52.2
84	MP2C	Mx	0	52.2
85	MP4A	X	115.831	6
86	MP4A	Z	-66.875	6
87	MP4A	Mx	-.084	6
88	MP4A	X	115.831	60
89	MP4A	Z	-66.875	60
90	MP4A	Mx	-.084	60
91	MP4B	X	122.975	6
92	MP4B	Z	-71	6
93	MP4B	Mx	.082	6
94	MP4B	X	122.975	60
95	MP4B	Z	-71	60
96	MP4B	Mx	.082	60
97	MP4C	X	163.26	6
98	MP4C	Z	-94.258	6
99	MP4C	Mx	0	6
100	MP4C	X	163.26	60
101	MP4C	Z	-94.258	60
102	MP4C	Mx	0	60
103	OVP	X	74.015	12
104	OVP	Z	-42.732	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	38.295	6
2	MP2A	Z	0	6
3	MP2A	Mx	-.026	6
4	MP2A	X	38.295	60
5	MP2A	Z	0	60
6	MP2A	Mx	-.026	60
7	MP2B	X	76.508	6
8	MP2B	Z	0	6
9	MP2B	Mx	.07	6
10	MP2B	X	76.508	60
11	MP2B	Z	0	60
12	MP2B	Mx	.07	60
13	MP2C	X	76.508	6
14	MP2C	Z	0	6
15	MP2C	Mx	-.019	6
16	MP2C	X	76.508	60
17	MP2C	Z	0	60
18	MP2C	Mx	-.019	60
19	MP2A	X	87.793	6
20	MP2A	Z	0	6
21	MP2A	Mx	-.059	6
22	MP2A	X	87.793	60
23	MP2A	Z	0	60
24	MP2A	Mx	-.059	60
25	MP2B	X	121.178	6
26	MP2B	Z	0	6
27	MP2B	Mx	-.03	6
28	MP2B	X	121.178	60
29	MP2B	Z	0	60
30	MP2B	Mx	-.03	60
31	MP2C	X	121.178	6
32	MP2C	Z	0	6
33	MP2C	Mx	.11	6
34	MP2C	X	121.178	60
35	MP2C	Z	0	60
36	MP2C	Mx	.11	60
37	MP1A	X	22.188	21
38	MP1A	Z	0	21
39	MP1A	Mx	-.015	21
40	MP1A	X	22.188	45
41	MP1A	Z	0	45
42	MP1A	Mx	-.015	45
43	MP1B	X	53.868	21
44	MP1B	Z	0	21
45	MP1B	Mx	.018	21
46	MP1B	X	53.868	45
47	MP1B	Z	0	45
48	MP1B	Mx	.018	45
49	MP1C	X	53.868	21
50	MP1C	Z	0	21
51	MP1C	Mx	.018	21
52	MP1C	X	53.868	45
53	MP1C	Z	0	45
54	MP1C	Mx	.018	45

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
55	OVP1	X	79.219	12
56	OVP1	Z	0	12
57	OVP1	Mx	0	12
58	MP2A	X	34.186	15
59	MP2A	Z	0	15
60	MP2A	Mx	.028	15
61	MP2B	X	46.759	15
62	MP2B	Z	0	15
63	MP2B	Mx	-.019	15
64	MP2C	X	46.759	15
65	MP2C	Z	0	15
66	MP2C	Mx	-.019	15
67	MP3A	X	30.899	15
68	MP3A	Z	0	15
69	MP3A	Mx	.026	15
70	MP3B	X	45.937	15
71	MP3B	Z	0	15
72	MP3B	Mx	-.019	15
73	MP3C	X	45.937	15
74	MP3C	Z	0	15
75	MP3C	Mx	-.019	15
76	MP2A	X	11.176	52.2
77	MP2A	Z	0	52.2
78	MP2A	Mx	.005	52.2
79	MP2B	X	20.544	52.2
80	MP2B	Z	0	52.2
81	MP2B	Mx	-.004	52.2
82	MP2C	X	20.544	52.2
83	MP2C	Z	0	52.2
84	MP2C	Mx	-.004	52.2
85	MP4A	X	128.365	6
86	MP4A	Z	0	6
87	MP4A	Mx	-.084	6
88	MP4A	X	128.365	60
89	MP4A	Z	0	60
90	MP4A	Mx	-.084	60
91	MP4B	X	173.011	6
92	MP4B	Z	0	6
93	MP4B	Mx	.058	6
94	MP4B	X	173.011	60
95	MP4B	Z	0	60
96	MP4B	Mx	.058	60
97	MP4C	X	173.011	6
98	MP4C	Z	0	6
99	MP4C	Mx	.058	6
100	MP4C	X	173.011	60
101	MP4C	Z	0	60
102	MP4C	Mx	.058	60
103	OVP	X	79.219	12
104	OVP	Z	0	12
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	44.195	6
2	MP2A	Z	25.516	6
3	MP2A	Mx	-.046	6
4	MP2A	X	44.195	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
5	MP2A	Z	25.516	60
6	MP2A	Mx	-.046	60
7	MP2B	X	77.289	6
8	MP2B	Z	44.623	6
9	MP2B	Mx	.059	6
10	MP2B	X	77.289	60
11	MP2B	Z	44.623	60
12	MP2B	Mx	.059	60
13	MP2C	X	44.195	6
14	MP2C	Z	25.516	6
15	MP2C	Mx	.012	6
16	MP2C	X	44.195	60
17	MP2C	Z	25.516	60
18	MP2C	Mx	.012	60
19	MP2A	X	85.669	6
20	MP2A	Z	49.461	6
21	MP2A	Mx	-.024	6
22	MP2A	X	85.669	60
23	MP2A	Z	49.461	60
24	MP2A	Mx	-.024	60
25	MP2B	X	114.581	6
26	MP2B	Z	66.153	6
27	MP2B	Mx	-.088	6
28	MP2B	X	114.581	60
29	MP2B	Z	66.153	60
30	MP2B	Mx	-.088	60
31	MP2C	X	85.669	6
32	MP2C	Z	49.461	6
33	MP2C	Mx	.09	6
34	MP2C	X	85.669	60
35	MP2C	Z	49.461	60
36	MP2C	Mx	.09	60
37	MP1A	X	28.36	21
38	MP1A	Z	16.374	21
39	MP1A	Mx	-.019	21
40	MP1A	X	28.36	45
41	MP1A	Z	16.374	45
42	MP1A	Mx	-.019	45
43	MP1B	X	55.796	21
44	MP1B	Z	32.214	21
45	MP1B	Mx	0	21
46	MP1B	X	55.796	45
47	MP1B	Z	32.214	45
48	MP1B	Mx	0	45
49	MP1C	X	28.36	21
50	MP1C	Z	16.374	21
51	MP1C	Mx	.019	21
52	MP1C	X	28.36	45
53	MP1C	Z	16.374	45
54	MP1C	Mx	.019	45
55	OVP1	X	74.015	12
56	OVP1	Z	42.732	12
57	OVP1	Mx	0	12
58	MP2A	X	33.236	15
59	MP2A	Z	19.189	15
60	MP2A	Mx	.028	15
61	MP2B	X	44.124	15
62	MP2B	Z	25.475	15
63	MP2B	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
64	MP2C	X	33.236	15
65	MP2C	Z	19.189	15
66	MP2C	Mx	-.028	15
67	MP3A	X	31.1	15
68	MP3A	Z	17.956	15
69	MP3A	Mx	.026	15
70	MP3B	X	44.124	15
71	MP3B	Z	25.475	15
72	MP3B	Mx	0	15
73	MP3C	X	31.1	15
74	MP3C	Z	17.956	15
75	MP3C	Mx	-.026	15
76	MP2A	X	12.383	52.2
77	MP2A	Z	7.149	52.2
78	MP2A	Mx	.005	52.2
79	MP2B	X	20.496	52.2
80	MP2B	Z	11.834	52.2
81	MP2B	Mx	0	52.2
82	MP2C	X	12.383	52.2
83	MP2C	Z	7.149	52.2
84	MP2C	Mx	-.005	52.2
85	MP4A	X	131.74	6
86	MP4A	Z	76.06	6
87	MP4A	Mx	-.078	6
88	MP4A	X	131.74	60
89	MP4A	Z	76.06	60
90	MP4A	Mx	-.078	60
91	MP4B	X	163.26	6
92	MP4B	Z	94.258	6
93	MP4B	Mx	0	6
94	MP4B	X	163.26	60
95	MP4B	Z	94.258	60
96	MP4B	Mx	0	60
97	MP4C	X	122.975	6
98	MP4C	Z	71	6
99	MP4C	Mx	.082	6
100	MP4C	X	122.975	60
101	MP4C	Z	71	60
102	MP4C	Mx	.082	60
103	OVP	X	74.015	12
104	OVP	Z	42.732	12
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	38.254	6
2	MP2A	Z	66.258	6
3	MP2A	Mx	-.07	6
4	MP2A	X	38.254	60
5	MP2A	Z	66.258	60
6	MP2A	Mx	-.07	60
7	MP2B	X	38.254	6
8	MP2B	Z	66.258	6
9	MP2B	Mx	.019	6
10	MP2B	X	38.254	60
11	MP2B	Z	66.258	60
12	MP2B	Mx	.019	60
13	MP2C	X	19.147	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
14	MP2C	Z	33.164	6
15	MP2C	Mx	.026	6
16	MP2C	X	19.147	60
17	MP2C	Z	33.164	60
18	MP2C	Mx	.026	60
19	MP2A	X	60.589	6
20	MP2A	Z	104.943	6
21	MP2A	Mx	.03	6
22	MP2A	X	60.589	60
23	MP2A	Z	104.943	60
24	MP2A	Mx	.03	60
25	MP2B	X	60.589	6
26	MP2B	Z	104.943	6
27	MP2B	Mx	-.11	6
28	MP2B	X	60.589	60
29	MP2B	Z	104.943	60
30	MP2B	Mx	-.11	60
31	MP2C	X	43.897	6
32	MP2C	Z	76.031	6
33	MP2C	Mx	.059	6
34	MP2C	X	43.897	60
35	MP2C	Z	76.031	60
36	MP2C	Mx	.059	60
37	MP1A	X	26.934	21
38	MP1A	Z	46.651	21
39	MP1A	Mx	-.018	21
40	MP1A	X	26.934	45
41	MP1A	Z	46.651	45
42	MP1A	Mx	-.018	45
43	MP1B	X	26.934	21
44	MP1B	Z	46.651	21
45	MP1B	Mx	-.018	21
46	MP1B	X	26.934	45
47	MP1B	Z	46.651	45
48	MP1B	Mx	-.018	45
49	MP1C	X	11.094	21
50	MP1C	Z	19.215	21
51	MP1C	Mx	.015	21
52	MP1C	X	11.094	45
53	MP1C	Z	19.215	45
54	MP1C	Mx	.015	45
55	OVP1	X	48.978	12
56	OVP1	Z	84.832	12
57	OVP1	Mx	0	12
58	MP2A	X	23.38	15
59	MP2A	Z	40.495	15
60	MP2A	Mx	.019	15
61	MP2B	X	23.38	15
62	MP2B	Z	40.495	15
63	MP2B	Mx	.019	15
64	MP2C	X	17.093	15
65	MP2C	Z	29.606	15
66	MP2C	Mx	-.028	15
67	MP3A	X	22.969	15
68	MP3A	Z	39.783	15
69	MP3A	Mx	.019	15
70	MP3B	X	22.969	15
71	MP3B	Z	39.783	15
72	MP3B	Mx	.019	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
73	MP3C	X	15.449	15
74	MP3C	Z	26.759	15
75	MP3C	Mx	-.026	15
76	MP2A	X	10.272	52.2
77	MP2A	Z	17.792	52.2
78	MP2A	Mx	.004	52.2
79	MP2B	X	10.272	52.2
80	MP2B	Z	17.792	52.2
81	MP2B	Mx	.004	52.2
82	MP2C	X	5.588	52.2
83	MP2C	Z	9.679	52.2
84	MP2C	Mx	-.005	52.2
85	MP4A	X	90.63	6
86	MP4A	Z	156.977	6
87	MP4A	Mx	-.041	6
88	MP4A	X	90.63	60
89	MP4A	Z	156.977	60
90	MP4A	Mx	-.041	60
91	MP4B	X	86.505	6
92	MP4B	Z	149.832	6
93	MP4B	Mx	-.058	6
94	MP4B	X	86.505	60
95	MP4B	Z	149.832	60
96	MP4B	Mx	-.058	60
97	MP4C	X	63.247	6
98	MP4C	Z	109.547	6
99	MP4C	Mx	.084	6
100	MP4C	X	63.247	60
101	MP4C	Z	109.547	60
102	MP4C	Mx	.084	60
103	OVP	X	48.978	12
104	OVP	Z	84.832	12
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	0	6
2	MP2A	Z	89.245	6
3	MP2A	Mx	-.059	6
4	MP2A	X	0	60
5	MP2A	Z	89.245	60
6	MP2A	Mx	-.059	60
7	MP2B	X	0	6
8	MP2B	Z	51.032	6
9	MP2B	Mx	-.012	6
10	MP2B	X	0	60
11	MP2B	Z	51.032	60
12	MP2B	Mx	-.012	60
13	MP2C	X	0	6
14	MP2C	Z	51.032	6
15	MP2C	Mx	.046	6
16	MP2C	X	0	60
17	MP2C	Z	51.032	60
18	MP2C	Mx	.046	60
19	MP2A	X	0	6
20	MP2A	Z	132.306	6
21	MP2A	Mx	.088	6
22	MP2A	X	0	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
23	MP2A	Z	132.306	60
24	MP2A	Mx	.088	60
25	MP2B	X	0	6
26	MP2B	Z	98.922	6
27	MP2B	Mx	-.09	6
28	MP2B	X	0	60
29	MP2B	Z	98.922	60
30	MP2B	Mx	-.09	60
31	MP2C	X	0	6
32	MP2C	Z	98.922	6
33	MP2C	Mx	.024	6
34	MP2C	X	0	60
35	MP2C	Z	98.922	60
36	MP2C	Mx	.024	60
37	MP1A	X	0	21
38	MP1A	Z	64.427	21
39	MP1A	Mx	0	21
40	MP1A	X	0	45
41	MP1A	Z	64.427	45
42	MP1A	Mx	0	45
43	MP1B	X	0	21
44	MP1B	Z	32.748	21
45	MP1B	Mx	-.019	21
46	MP1B	X	0	45
47	MP1B	Z	32.748	45
48	MP1B	Mx	-.019	45
49	MP1C	X	0	21
50	MP1C	Z	32.748	21
51	MP1C	Mx	.019	21
52	MP1C	X	0	45
53	MP1C	Z	32.748	45
54	MP1C	Mx	.019	45
55	OVP1	X	0	12
56	OVP1	Z	104.202	12
57	OVP1	Mx	0	12
58	MP2A	X	0	15
59	MP2A	Z	50.95	15
60	MP2A	Mx	0	15
61	MP2B	X	0	15
62	MP2B	Z	38.377	15
63	MP2B	Mx	.028	15
64	MP2C	X	0	15
65	MP2C	Z	38.377	15
66	MP2C	Mx	-.028	15
67	MP3A	X	0	15
68	MP3A	Z	50.95	15
69	MP3A	Mx	0	15
70	MP3B	X	0	15
71	MP3B	Z	35.912	15
72	MP3B	Mx	.026	15
73	MP3C	X	0	15
74	MP3C	Z	35.912	15
75	MP3C	Mx	-.026	15
76	MP2A	X	0	52.2
77	MP2A	Z	23.667	52.2
78	MP2A	Mx	0	52.2
79	MP2B	X	0	52.2
80	MP2B	Z	14.299	52.2
81	MP2B	Mx	.005	52.2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
82	MP2C	X	0	52.2
83	MP2C	Z	14.299	52.2
84	MP2C	Mx	-.005	52.2
85	MP4A	X	0	6
86	MP4A	Z	186.646	6
87	MP4A	Mx	.022	6
88	MP4A	X	0	60
89	MP4A	Z	186.646	60
90	MP4A	Mx	.022	60
91	MP4B	X	0	6
92	MP4B	Z	142	6
93	MP4B	Mx	-.082	6
94	MP4B	X	0	60
95	MP4B	Z	142	60
96	MP4B	Mx	-.082	60
97	MP4C	X	0	6
98	MP4C	Z	142	6
99	MP4C	Mx	.082	6
100	MP4C	X	0	60
101	MP4C	Z	142	60
102	MP4C	Mx	.082	60
103	OVP	X	0	12
104	OVP	Z	104.202	12
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-38.254	6
2	MP2A	Z	66.258	6
3	MP2A	Mx	-.019	6
4	MP2A	X	-38.254	60
5	MP2A	Z	66.258	60
6	MP2A	Mx	-.019	60
7	MP2B	X	-19.147	6
8	MP2B	Z	33.164	6
9	MP2B	Mx	-.026	6
10	MP2B	X	-19.147	60
11	MP2B	Z	33.164	60
12	MP2B	Mx	-.026	60
13	MP2C	X	-38.254	6
14	MP2C	Z	66.258	6
15	MP2C	Mx	.07	6
16	MP2C	X	-38.254	60
17	MP2C	Z	66.258	60
18	MP2C	Mx	.07	60
19	MP2A	X	-60.589	6
20	MP2A	Z	104.943	6
21	MP2A	Mx	.11	6
22	MP2A	X	-60.589	60
23	MP2A	Z	104.943	60
24	MP2A	Mx	.11	60
25	MP2B	X	-43.897	6
26	MP2B	Z	76.031	6
27	MP2B	Mx	-.059	6
28	MP2B	X	-43.897	60
29	MP2B	Z	76.031	60
30	MP2B	Mx	-.059	60
31	MP2C	X	-60.589	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
32	MP2C	Z	104.943	6
33	MP2C	Mx	-.03	6
34	MP2C	X	-60.589	60
35	MP2C	Z	104.943	60
36	MP2C	Mx	-.03	60
37	MP1A	X	-26.934	21
38	MP1A	Z	46.651	21
39	MP1A	Mx	.018	21
40	MP1A	X	-26.934	45
41	MP1A	Z	46.651	45
42	MP1A	Mx	.018	45
43	MP1B	X	-11.094	21
44	MP1B	Z	19.215	21
45	MP1B	Mx	-.015	21
46	MP1B	X	-11.094	45
47	MP1B	Z	19.215	45
48	MP1B	Mx	-.015	45
49	MP1C	X	-26.934	21
50	MP1C	Z	46.651	21
51	MP1C	Mx	.018	21
52	MP1C	X	-26.934	45
53	MP1C	Z	46.651	45
54	MP1C	Mx	.018	45
55	OVP1	X	-48.978	12
56	OVP1	Z	84.832	12
57	OVP1	Mx	0	12
58	MP2A	X	-23.38	15
59	MP2A	Z	40.495	15
60	MP2A	Mx	-.019	15
61	MP2B	X	-17.093	15
62	MP2B	Z	29.606	15
63	MP2B	Mx	.028	15
64	MP2C	X	-23.38	15
65	MP2C	Z	40.495	15
66	MP2C	Mx	-.019	15
67	MP3A	X	-22.969	15
68	MP3A	Z	39.783	15
69	MP3A	Mx	-.019	15
70	MP3B	X	-15.449	15
71	MP3B	Z	26.759	15
72	MP3B	Mx	.026	15
73	MP3C	X	-22.969	15
74	MP3C	Z	39.783	15
75	MP3C	Mx	-.019	15
76	MP2A	X	-10.272	52.2
77	MP2A	Z	17.792	52.2
78	MP2A	Mx	-.004	52.2
79	MP2B	X	-5.588	52.2
80	MP2B	Z	9.679	52.2
81	MP2B	Mx	.005	52.2
82	MP2C	X	-10.272	52.2
83	MP2C	Z	17.792	52.2
84	MP2C	Mx	-.004	52.2
85	MP4A	X	-81.445	6
86	MP4A	Z	141.067	6
87	MP4A	Mx	.07	6
88	MP4A	X	-81.445	60
89	MP4A	Z	141.067	60
90	MP4A	Mx	.07	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
91	MP4B	X	-63.247	6
92	MP4B	Z	109.547	6
93	MP4B	Mx	-.084	6
94	MP4B	X	-63.247	60
95	MP4B	Z	109.547	60
96	MP4B	Mx	-.084	60
97	MP4C	X	-86.505	6
98	MP4C	Z	149.832	6
99	MP4C	Mx	.058	6
100	MP4C	X	-86.505	60
101	MP4C	Z	149.832	60
102	MP4C	Mx	.058	60
103	OVP	X	-48.978	12
104	OVP	Z	84.832	12
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-44.195	6
2	MP2A	Z	25.516	6
3	MP2A	Mx	.012	6
4	MP2A	X	-44.195	60
5	MP2A	Z	25.516	60
6	MP2A	Mx	.012	60
7	MP2B	X	-44.195	6
8	MP2B	Z	25.516	6
9	MP2B	Mx	-.046	6
10	MP2B	X	-44.195	60
11	MP2B	Z	25.516	60
12	MP2B	Mx	-.046	60
13	MP2C	X	-77.289	6
14	MP2C	Z	44.623	6
15	MP2C	Mx	.059	6
16	MP2C	X	-77.289	60
17	MP2C	Z	44.623	60
18	MP2C	Mx	.059	60
19	MP2A	X	-85.669	6
20	MP2A	Z	49.461	6
21	MP2A	Mx	.09	6
22	MP2A	X	-85.669	60
23	MP2A	Z	49.461	60
24	MP2A	Mx	.09	60
25	MP2B	X	-85.669	6
26	MP2B	Z	49.461	6
27	MP2B	Mx	-.024	6
28	MP2B	X	-85.669	60
29	MP2B	Z	49.461	60
30	MP2B	Mx	-.024	60
31	MP2C	X	-114.581	6
32	MP2C	Z	66.153	6
33	MP2C	Mx	-.088	6
34	MP2C	X	-114.581	60
35	MP2C	Z	66.153	60
36	MP2C	Mx	-.088	60
37	MP1A	X	-28.36	21
38	MP1A	Z	16.374	21
39	MP1A	Mx	.019	21
40	MP1A	X	-28.36	45

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
41	MP1A	Z	16.374	45
42	MP1A	Mx	.019	45
43	MP1B	X	-28.36	21
44	MP1B	Z	16.374	21
45	MP1B	Mx	-.019	21
46	MP1B	X	-28.36	45
47	MP1B	Z	16.374	45
48	MP1B	Mx	-.019	45
49	MP1C	X	-55.796	21
50	MP1C	Z	32.214	21
51	MP1C	Mx	0	21
52	MP1C	X	-55.796	45
53	MP1C	Z	32.214	45
54	MP1C	Mx	0	45
55	OVP1	X	-74.015	12
56	OVP1	Z	42.732	12
57	OVP1	Mx	0	12
58	MP2A	X	-33.236	15
59	MP2A	Z	19.189	15
60	MP2A	Mx	-.028	15
61	MP2B	X	-33.236	15
62	MP2B	Z	19.189	15
63	MP2B	Mx	.028	15
64	MP2C	X	-44.124	15
65	MP2C	Z	25.475	15
66	MP2C	Mx	0	15
67	MP3A	X	-31.1	15
68	MP3A	Z	17.956	15
69	MP3A	Mx	-.026	15
70	MP3B	X	-31.1	15
71	MP3B	Z	17.956	15
72	MP3B	Mx	.026	15
73	MP3C	X	-44.124	15
74	MP3C	Z	25.475	15
75	MP3C	Mx	0	15
76	MP2A	X	-12.383	52.2
77	MP2A	Z	7.149	52.2
78	MP2A	Mx	-.005	52.2
79	MP2B	X	-12.383	52.2
80	MP2B	Z	7.149	52.2
81	MP2B	Mx	.005	52.2
82	MP2C	X	-20.496	52.2
83	MP2C	Z	11.834	52.2
84	MP2C	Mx	0	52.2
85	MP4A	X	-115.831	6
86	MP4A	Z	66.875	6
87	MP4A	Mx	.084	6
88	MP4A	X	-115.831	60
89	MP4A	Z	66.875	60
90	MP4A	Mx	.084	60
91	MP4B	X	-122.975	6
92	MP4B	Z	71	6
93	MP4B	Mx	-.082	6
94	MP4B	X	-122.975	60
95	MP4B	Z	71	60
96	MP4B	Mx	-.082	60
97	MP4C	X	-163.26	6
98	MP4C	Z	94.258	6
99	MP4C	Mx	0	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
100	MP4C	X	-163.26	60
101	MP4C	Z	94.258	60
102	MP4C	Mx	0	60
103	OVP	X	-74.015	12
104	OVP	Z	42.732	12
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-38.295	6
2	MP2A	Z	0	6
3	MP2A	Mx	.026	6
4	MP2A	X	-38.295	60
5	MP2A	Z	0	60
6	MP2A	Mx	.026	60
7	MP2B	X	-76.508	6
8	MP2B	Z	0	6
9	MP2B	Mx	-.07	6
10	MP2B	X	-76.508	60
11	MP2B	Z	0	60
12	MP2B	Mx	-.07	60
13	MP2C	X	-76.508	6
14	MP2C	Z	0	6
15	MP2C	Mx	.019	6
16	MP2C	X	-76.508	60
17	MP2C	Z	0	60
18	MP2C	Mx	.019	60
19	MP2A	X	-87.793	6
20	MP2A	Z	0	6
21	MP2A	Mx	.059	6
22	MP2A	X	-87.793	60
23	MP2A	Z	0	60
24	MP2A	Mx	.059	60
25	MP2B	X	-121.178	6
26	MP2B	Z	0	6
27	MP2B	Mx	.03	6
28	MP2B	X	-121.178	60
29	MP2B	Z	0	60
30	MP2B	Mx	.03	60
31	MP2C	X	-121.178	6
32	MP2C	Z	0	6
33	MP2C	Mx	-.11	6
34	MP2C	X	-121.178	60
35	MP2C	Z	0	60
36	MP2C	Mx	-.11	60
37	MP1A	X	-22.188	21
38	MP1A	Z	0	21
39	MP1A	Mx	.015	21
40	MP1A	X	-22.188	45
41	MP1A	Z	0	45
42	MP1A	Mx	.015	45
43	MP1B	X	-53.868	21
44	MP1B	Z	0	21
45	MP1B	Mx	-.018	21
46	MP1B	X	-53.868	45
47	MP1B	Z	0	45
48	MP1B	Mx	-.018	45
49	MP1C	X	-53.868	21

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
50	MP1C	Z	0	21
51	MP1C	Mx	-.018	21
52	MP1C	X	-53.868	45
53	MP1C	Z	0	45
54	MP1C	Mx	-.018	45
55	OVP1	X	-79.219	12
56	OVP1	Z	0	12
57	OVP1	Mx	0	12
58	MP2A	X	-34.186	15
59	MP2A	Z	0	15
60	MP2A	Mx	-.028	15
61	MP2B	X	-46.759	15
62	MP2B	Z	0	15
63	MP2B	Mx	.019	15
64	MP2C	X	-46.759	15
65	MP2C	Z	0	15
66	MP2C	Mx	.019	15
67	MP3A	X	-30.899	15
68	MP3A	Z	0	15
69	MP3A	Mx	-.026	15
70	MP3B	X	-45.937	15
71	MP3B	Z	0	15
72	MP3B	Mx	.019	15
73	MP3C	X	-45.937	15
74	MP3C	Z	0	15
75	MP3C	Mx	.019	15
76	MP2A	X	-11.176	52.2
77	MP2A	Z	0	52.2
78	MP2A	Mx	-.005	52.2
79	MP2B	X	-20.544	52.2
80	MP2B	Z	0	52.2
81	MP2B	Mx	.004	52.2
82	MP2C	X	-20.544	52.2
83	MP2C	Z	0	52.2
84	MP2C	Mx	.004	52.2
85	MP4A	X	-128.365	6
86	MP4A	Z	0	6
87	MP4A	Mx	.084	6
88	MP4A	X	-128.365	60
89	MP4A	Z	0	60
90	MP4A	Mx	.084	60
91	MP4B	X	-173.011	6
92	MP4B	Z	0	6
93	MP4B	Mx	-.058	6
94	MP4B	X	-173.011	60
95	MP4B	Z	0	60
96	MP4B	Mx	-.058	60
97	MP4C	X	-173.011	6
98	MP4C	Z	0	6
99	MP4C	Mx	-.058	6
100	MP4C	X	-173.011	60
101	MP4C	Z	0	60
102	MP4C	Mx	-.058	60
103	OVP	X	-79.219	12
104	OVP	Z	0	12
105	OVP	Mx	0	12

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-44.195	6
2	MP2A	Z	-25.516	6
3	MP2A	Mx	.046	6
4	MP2A	X	-44.195	60
5	MP2A	Z	-25.516	60
6	MP2A	Mx	.046	60
7	MP2B	X	-77.289	6
8	MP2B	Z	-44.623	6
9	MP2B	Mx	-.059	6
10	MP2B	X	-77.289	60
11	MP2B	Z	-44.623	60
12	MP2B	Mx	-.059	60
13	MP2C	X	-44.195	6
14	MP2C	Z	-25.516	6
15	MP2C	Mx	-.012	6
16	MP2C	X	-44.195	60
17	MP2C	Z	-25.516	60
18	MP2C	Mx	-.012	60
19	MP2A	X	-85.669	6
20	MP2A	Z	-49.461	6
21	MP2A	Mx	.024	6
22	MP2A	X	-85.669	60
23	MP2A	Z	-49.461	60
24	MP2A	Mx	.024	60
25	MP2B	X	-114.581	6
26	MP2B	Z	-66.153	6
27	MP2B	Mx	.088	6
28	MP2B	X	-114.581	60
29	MP2B	Z	-66.153	60
30	MP2B	Mx	.088	60
31	MP2C	X	-85.669	6
32	MP2C	Z	-49.461	6
33	MP2C	Mx	-.09	6
34	MP2C	X	-85.669	60
35	MP2C	Z	-49.461	60
36	MP2C	Mx	-.09	60
37	MP1A	X	-28.36	21
38	MP1A	Z	-16.374	21
39	MP1A	Mx	.019	21
40	MP1A	X	-28.36	45
41	MP1A	Z	-16.374	45
42	MP1A	Mx	.019	45
43	MP1B	X	-55.796	21
44	MP1B	Z	-32.214	21
45	MP1B	Mx	0	21
46	MP1B	X	-55.796	45
47	MP1B	Z	-32.214	45
48	MP1B	Mx	0	45
49	MP1C	X	-28.36	21
50	MP1C	Z	-16.374	21
51	MP1C	Mx	-.019	21
52	MP1C	X	-28.36	45
53	MP1C	Z	-16.374	45
54	MP1C	Mx	-.019	45
55	OVP1	X	-74.015	12
56	OVP1	Z	-42.732	12
57	OVP1	Mx	0	12
58	MP2A	X	-33.236	15
59	MP2A	Z	-19.189	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
60	MP2A	Mx	-.028	15
61	MP2B	X	-44.124	15
62	MP2B	Z	-25.475	15
63	MP2B	Mx	0	15
64	MP2C	X	-33.236	15
65	MP2C	Z	-19.189	15
66	MP2C	Mx	.028	15
67	MP3A	X	-31.1	15
68	MP3A	Z	-17.956	15
69	MP3A	Mx	-.026	15
70	MP3B	X	-44.124	15
71	MP3B	Z	-25.475	15
72	MP3B	Mx	0	15
73	MP3C	X	-31.1	15
74	MP3C	Z	-17.956	15
75	MP3C	Mx	.026	15
76	MP2A	X	-12.383	52.2
77	MP2A	Z	-7.149	52.2
78	MP2A	Mx	-.005	52.2
79	MP2B	X	-20.496	52.2
80	MP2B	Z	-11.834	52.2
81	MP2B	Mx	0	52.2
82	MP2C	X	-12.383	52.2
83	MP2C	Z	-7.149	52.2
84	MP2C	Mx	.005	52.2
85	MP4A	X	-131.74	6
86	MP4A	Z	-76.06	6
87	MP4A	Mx	.078	6
88	MP4A	X	-131.74	60
89	MP4A	Z	-76.06	60
90	MP4A	Mx	.078	60
91	MP4B	X	-163.26	6
92	MP4B	Z	-94.258	6
93	MP4B	Mx	0	6
94	MP4B	X	-163.26	60
95	MP4B	Z	-94.258	60
96	MP4B	Mx	0	60
97	MP4C	X	-122.975	6
98	MP4C	Z	-71	6
99	MP4C	Mx	-.082	6
100	MP4C	X	-122.975	60
101	MP4C	Z	-71	60
102	MP4C	Mx	-.082	60
103	OVP	X	-74.015	12
104	OVP	Z	-42.732	12
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-38.254	6
2	MP2A	Z	-66.258	6
3	MP2A	Mx	.07	6
4	MP2A	X	-38.254	60
5	MP2A	Z	-66.258	60
6	MP2A	Mx	.07	60
7	MP2B	X	-38.254	6
8	MP2B	Z	-66.258	6
9	MP2B	Mx	-.019	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
10	MP2B	X	-38.254	60
11	MP2B	Z	-66.258	60
12	MP2B	Mx	-.019	60
13	MP2C	X	-19.147	6
14	MP2C	Z	-33.164	6
15	MP2C	Mx	-.026	6
16	MP2C	X	-19.147	60
17	MP2C	Z	-33.164	60
18	MP2C	Mx	-.026	60
19	MP2A	X	-60.589	6
20	MP2A	Z	-104.943	6
21	MP2A	Mx	-.03	6
22	MP2A	X	-60.589	60
23	MP2A	Z	-104.943	60
24	MP2A	Mx	-.03	60
25	MP2B	X	-60.589	6
26	MP2B	Z	-104.943	6
27	MP2B	Mx	.11	6
28	MP2B	X	-60.589	60
29	MP2B	Z	-104.943	60
30	MP2B	Mx	.11	60
31	MP2C	X	-43.897	6
32	MP2C	Z	-76.031	6
33	MP2C	Mx	-.059	6
34	MP2C	X	-43.897	60
35	MP2C	Z	-76.031	60
36	MP2C	Mx	-.059	60
37	MP1A	X	-26.934	21
38	MP1A	Z	-46.651	21
39	MP1A	Mx	.018	21
40	MP1A	X	-26.934	45
41	MP1A	Z	-46.651	45
42	MP1A	Mx	.018	45
43	MP1B	X	-26.934	21
44	MP1B	Z	-46.651	21
45	MP1B	Mx	.018	21
46	MP1B	X	-26.934	45
47	MP1B	Z	-46.651	45
48	MP1B	Mx	.018	45
49	MP1C	X	-11.094	21
50	MP1C	Z	-19.215	21
51	MP1C	Mx	-.015	21
52	MP1C	X	-11.094	45
53	MP1C	Z	-19.215	45
54	MP1C	Mx	-.015	45
55	OVP1	X	-48.978	12
56	OVP1	Z	-84.832	12
57	OVP1	Mx	0	12
58	MP2A	X	-23.38	15
59	MP2A	Z	-40.495	15
60	MP2A	Mx	-.019	15
61	MP2B	X	-23.38	15
62	MP2B	Z	-40.495	15
63	MP2B	Mx	-.019	15
64	MP2C	X	-17.093	15
65	MP2C	Z	-29.606	15
66	MP2C	Mx	.028	15
67	MP3A	X	-22.969	15
68	MP3A	Z	-39.783	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
69	MP3A	Mx	-.019	15
70	MP3B	X	-22.969	15
71	MP3B	Z	-39.783	15
72	MP3B	Mx	-.019	15
73	MP3C	X	-15.449	15
74	MP3C	Z	-26.759	15
75	MP3C	Mx	.026	15
76	MP2A	X	-10.272	52.2
77	MP2A	Z	-17.792	52.2
78	MP2A	Mx	-.004	52.2
79	MP2B	X	-10.272	52.2
80	MP2B	Z	-17.792	52.2
81	MP2B	Mx	-.004	52.2
82	MP2C	X	-5.588	52.2
83	MP2C	Z	-9.679	52.2
84	MP2C	Mx	.005	52.2
85	MP4A	X	-90.63	6
86	MP4A	Z	-156.977	6
87	MP4A	Mx	.041	6
88	MP4A	X	-90.63	60
89	MP4A	Z	-156.977	60
90	MP4A	Mx	.041	60
91	MP4B	X	-86.505	6
92	MP4B	Z	-149.832	6
93	MP4B	Mx	.058	6
94	MP4B	X	-86.505	60
95	MP4B	Z	-149.832	60
96	MP4B	Mx	.058	60
97	MP4C	X	-63.247	6
98	MP4C	Z	-109.547	6
99	MP4C	Mx	-.084	6
100	MP4C	X	-63.247	60
101	MP4C	Z	-109.547	60
102	MP4C	Mx	-.084	60
103	OVP	X	-48.978	12
104	OVP	Z	-84.832	12
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	0	6
2	MP2A	Z	-27.656	6
3	MP2A	Mx	.018	6
4	MP2A	X	0	60
5	MP2A	Z	-27.656	60
6	MP2A	Mx	.018	60
7	MP2B	X	0	6
8	MP2B	Z	-21.504	6
9	MP2B	Mx	.005	6
10	MP2B	X	0	60
11	MP2B	Z	-21.504	60
12	MP2B	Mx	.005	60
13	MP2C	X	0	6
14	MP2C	Z	-21.504	6
15	MP2C	Mx	-.02	6
16	MP2C	X	0	60
17	MP2C	Z	-21.504	60
18	MP2C	Mx	-.02	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
19	MP2A	X	0	6
20	MP2A	Z	-27.656	6
21	MP2A	Mx	-.018	6
22	MP2A	X	0	60
23	MP2A	Z	-27.656	60
24	MP2A	Mx	-.018	60
25	MP2B	X	0	6
26	MP2B	Z	-21.504	6
27	MP2B	Mx	.02	6
28	MP2B	X	0	60
29	MP2B	Z	-21.504	60
30	MP2B	Mx	.02	60
31	MP2C	X	0	6
32	MP2C	Z	-21.504	6
33	MP2C	Mx	-.005	6
34	MP2C	X	0	60
35	MP2C	Z	-21.504	60
36	MP2C	Mx	-.005	60
37	MP1A	X	0	21
38	MP1A	Z	-16.635	21
39	MP1A	Mx	0	21
40	MP1A	X	0	45
41	MP1A	Z	-16.635	45
42	MP1A	Mx	0	45
43	MP1B	X	0	21
44	MP1B	Z	-9.706	21
45	MP1B	Mx	.006	21
46	MP1B	X	0	45
47	MP1B	Z	-9.706	45
48	MP1B	Mx	.006	45
49	MP1C	X	0	21
50	MP1C	Z	-9.706	21
51	MP1C	Mx	-.006	21
52	MP1C	X	0	45
53	MP1C	Z	-9.706	45
54	MP1C	Mx	-.006	45
55	OVP1	X	0	12
56	OVP1	Z	-28.895	12
57	OVP1	Mx	0	12
58	MP2A	X	0	15
59	MP2A	Z	-14.42	15
60	MP2A	Mx	0	15
61	MP2B	X	0	15
62	MP2B	Z	-11.278	15
63	MP2B	Mx	-.008	15
64	MP2C	X	0	15
65	MP2C	Z	-11.278	15
66	MP2C	Mx	.008	15
67	MP3A	X	0	15
68	MP3A	Z	-14.42	15
69	MP3A	Mx	0	15
70	MP3B	X	0	15
71	MP3B	Z	-10.712	15
72	MP3B	Mx	-.008	15
73	MP3C	X	0	15
74	MP3C	Z	-10.712	15
75	MP3C	Mx	.008	15
76	MP2A	X	0	52.2
77	MP2A	Z	-8.482	52.2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
78	MP2A	Mx	0	52.2
79	MP2B	X	0	52.2
80	MP2B	Z	-5.895	52.2
81	MP2B	Mx	-.002	52.2
82	MP2C	X	0	52.2
83	MP2C	Z	-5.895	52.2
84	MP2C	Mx	.002	52.2
85	MP4A	X	0	6
86	MP4A	Z	-38.343	6
87	MP4A	Mx	-.004	6
88	MP4A	X	0	60
89	MP4A	Z	-38.343	60
90	MP4A	Mx	-.004	60
91	MP4B	X	0	6
92	MP4B	Z	-30.153	6
93	MP4B	Mx	.017	6
94	MP4B	X	0	60
95	MP4B	Z	-30.153	60
96	MP4B	Mx	.017	60
97	MP4C	X	0	6
98	MP4C	Z	-30.153	6
99	MP4C	Mx	-.017	6
100	MP4C	X	0	60
101	MP4C	Z	-30.153	60
102	MP4C	Mx	-.017	60
103	OVP	X	0	12
104	OVP	Z	-28.895	12
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	12.803	6
2	MP2A	Z	-22.175	6
3	MP2A	Mx	.006	6
4	MP2A	X	12.803	60
5	MP2A	Z	-22.175	60
6	MP2A	Mx	.006	60
7	MP2B	X	9.727	6
8	MP2B	Z	-16.847	6
9	MP2B	Mx	.013	6
10	MP2B	X	9.727	60
11	MP2B	Z	-16.847	60
12	MP2B	Mx	.013	60
13	MP2C	X	12.803	6
14	MP2C	Z	-22.175	6
15	MP2C	Mx	-.023	6
16	MP2C	X	12.803	60
17	MP2C	Z	-22.175	60
18	MP2C	Mx	-.023	60
19	MP2A	X	12.803	6
20	MP2A	Z	-22.175	6
21	MP2A	Mx	-.023	6
22	MP2A	X	12.803	60
23	MP2A	Z	-22.175	60
24	MP2A	Mx	-.023	60
25	MP2B	X	9.727	6
26	MP2B	Z	-16.847	6
27	MP2B	Mx	.013	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
28	MP2B	X	9.727	60
29	MP2B	Z	-16.847	60
30	MP2B	Mx	.013	60
31	MP2C	X	12.803	6
32	MP2C	Z	-22.175	6
33	MP2C	Mx	.006	6
34	MP2C	X	12.803	60
35	MP2C	Z	-22.175	60
36	MP2C	Mx	.006	60
37	MP1A	X	7.163	21
38	MP1A	Z	-12.406	21
39	MP1A	Mx	-.005	21
40	MP1A	X	7.163	45
41	MP1A	Z	-12.406	45
42	MP1A	Mx	-.005	45
43	MP1B	X	3.698	21
44	MP1B	Z	-6.405	21
45	MP1B	Mx	.005	21
46	MP1B	X	3.698	45
47	MP1B	Z	-6.405	45
48	MP1B	Mx	.005	45
49	MP1C	X	7.163	21
50	MP1C	Z	-12.406	21
51	MP1C	Mx	-.005	21
52	MP1C	X	7.163	45
53	MP1C	Z	-12.406	45
54	MP1C	Mx	-.005	45
55	OVP1	X	13.692	12
56	OVP1	Z	-23.715	12
57	OVP1	Mx	0	12
58	MP2A	X	6.686	15
59	MP2A	Z	-11.581	15
60	MP2A	Mx	.006	15
61	MP2B	X	5.115	15
62	MP2B	Z	-8.86	15
63	MP2B	Mx	-.009	15
64	MP2C	X	6.686	15
65	MP2C	Z	-11.581	15
66	MP2C	Mx	.006	15
67	MP3A	X	6.592	15
68	MP3A	Z	-11.418	15
69	MP3A	Mx	.005	15
70	MP3B	X	4.738	15
71	MP3B	Z	-8.207	15
72	MP3B	Mx	-.008	15
73	MP3C	X	6.592	15
74	MP3C	Z	-11.418	15
75	MP3C	Mx	.005	15
76	MP2A	X	3.81	52.2
77	MP2A	Z	-6.599	52.2
78	MP2A	Mx	.002	52.2
79	MP2B	X	2.517	52.2
80	MP2B	Z	-4.359	52.2
81	MP2B	Mx	-.002	52.2
82	MP2C	X	3.81	52.2
83	MP2C	Z	-6.599	52.2
84	MP2C	Mx	.002	52.2
85	MP4A	X	16.993	6
86	MP4A	Z	-29.432	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
87	MP4A	Mx	-.015	6
88	MP4A	X	16.993	60
89	MP4A	Z	-29.432	60
90	MP4A	Mx	-.015	60
91	MP4B	X	13.655	6
92	MP4B	Z	-23.651	6
93	MP4B	Mx	.018	6
94	MP4B	X	13.655	60
95	MP4B	Z	-23.651	60
96	MP4B	Mx	.018	60
97	MP4C	X	17.921	6
98	MP4C	Z	-31.04	6
99	MP4C	Mx	-.012	6
100	MP4C	X	17.921	60
101	MP4C	Z	-31.04	60
102	MP4C	Mx	-.012	60
103	OVP	X	13.692	12
104	OVP	Z	-23.715	12
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	18.623	6
2	MP2A	Z	-10.752	6
3	MP2A	Mx	-.005	6
4	MP2A	X	18.623	60
5	MP2A	Z	-10.752	60
6	MP2A	Mx	-.005	60
7	MP2B	X	18.623	6
8	MP2B	Z	-10.752	6
9	MP2B	Mx	.02	6
10	MP2B	X	18.623	60
11	MP2B	Z	-10.752	60
12	MP2B	Mx	.02	60
13	MP2C	X	23.951	6
14	MP2C	Z	-13.828	6
15	MP2C	Mx	-.018	6
16	MP2C	X	23.951	60
17	MP2C	Z	-13.828	60
18	MP2C	Mx	-.018	60
19	MP2A	X	18.623	6
20	MP2A	Z	-10.752	6
21	MP2A	Mx	-.02	6
22	MP2A	X	18.623	60
23	MP2A	Z	-10.752	60
24	MP2A	Mx	-.02	60
25	MP2B	X	18.623	6
26	MP2B	Z	-10.752	6
27	MP2B	Mx	.005	6
28	MP2B	X	18.623	60
29	MP2B	Z	-10.752	60
30	MP2B	Mx	.005	60
31	MP2C	X	23.951	6
32	MP2C	Z	-13.828	6
33	MP2C	Mx	.018	6
34	MP2C	X	23.951	60
35	MP2C	Z	-13.828	60
36	MP2C	Mx	.018	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
37	MP1A	X	8.405	21
38	MP1A	Z	-4.853	21
39	MP1A	Mx	-.006	21
40	MP1A	X	8.405	45
41	MP1A	Z	-4.853	45
42	MP1A	Mx	-.006	45
43	MP1B	X	8.405	21
44	MP1B	Z	-4.853	21
45	MP1B	Mx	.006	21
46	MP1B	X	8.405	45
47	MP1B	Z	-4.853	45
48	MP1B	Mx	.006	45
49	MP1C	X	14.406	21
50	MP1C	Z	-8.318	21
51	MP1C	Mx	0	21
52	MP1C	X	14.406	45
53	MP1C	Z	-8.318	45
54	MP1C	Mx	0	45
55	OVP1	X	21.095	12
56	OVP1	Z	-12.179	12
57	OVP1	Mx	0	12
58	MP2A	X	9.767	15
59	MP2A	Z	-5.639	15
60	MP2A	Mx	.008	15
61	MP2B	X	9.767	15
62	MP2B	Z	-5.639	15
63	MP2B	Mx	-.008	15
64	MP2C	X	12.488	15
65	MP2C	Z	-7.21	15
66	MP2C	Mx	0	15
67	MP3A	X	9.277	15
68	MP3A	Z	-5.356	15
69	MP3A	Mx	.008	15
70	MP3B	X	9.277	15
71	MP3B	Z	-5.356	15
72	MP3B	Mx	-.008	15
73	MP3C	X	12.488	15
74	MP3C	Z	-7.21	15
75	MP3C	Mx	0	15
76	MP2A	X	5.106	52.2
77	MP2A	Z	-2.948	52.2
78	MP2A	Mx	.002	52.2
79	MP2B	X	5.106	52.2
80	MP2B	Z	-2.948	52.2
81	MP2B	Mx	-.002	52.2
82	MP2C	X	7.346	52.2
83	MP2C	Z	-4.241	52.2
84	MP2C	Mx	0	52.2
85	MP4A	X	24.803	6
86	MP4A	Z	-14.32	6
87	MP4A	Mx	-.018	6
88	MP4A	X	24.803	60
89	MP4A	Z	-14.32	60
90	MP4A	Mx	-.018	60
91	MP4B	X	26.114	6
92	MP4B	Z	-15.077	6
93	MP4B	Mx	.017	6
94	MP4B	X	26.114	60
95	MP4B	Z	-15.077	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
96	MP4B	Mx	.017	60
97	MP4C	X	33.503	6
98	MP4C	Z	-19.343	6
99	MP4C	Mx	0	6
100	MP4C	X	33.503	60
101	MP4C	Z	-19.343	60
102	MP4C	Mx	0	60
103	OVP	X	21.095	12
104	OVP	Z	-12.179	12
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	19.454	6
2	MP2A	Z	0	6
3	MP2A	Mx	-.013	6
4	MP2A	X	19.454	60
5	MP2A	Z	0	60
6	MP2A	Mx	-.013	60
7	MP2B	X	25.606	6
8	MP2B	Z	0	6
9	MP2B	Mx	.023	6
10	MP2B	X	25.606	60
11	MP2B	Z	0	60
12	MP2B	Mx	.023	60
13	MP2C	X	25.606	6
14	MP2C	Z	0	6
15	MP2C	Mx	-.006	6
16	MP2C	X	25.606	60
17	MP2C	Z	0	60
18	MP2C	Mx	-.006	60
19	MP2A	X	19.454	6
20	MP2A	Z	0	6
21	MP2A	Mx	-.013	6
22	MP2A	X	19.454	60
23	MP2A	Z	0	60
24	MP2A	Mx	-.013	60
25	MP2B	X	25.606	6
26	MP2B	Z	0	6
27	MP2B	Mx	-.006	6
28	MP2B	X	25.606	60
29	MP2B	Z	0	60
30	MP2B	Mx	-.006	60
31	MP2C	X	25.606	6
32	MP2C	Z	0	6
33	MP2C	Mx	.023	6
34	MP2C	X	25.606	60
35	MP2C	Z	0	60
36	MP2C	Mx	.023	60
37	MP1A	X	7.396	21
38	MP1A	Z	0	21
39	MP1A	Mx	-.005	21
40	MP1A	X	7.396	45
41	MP1A	Z	0	45
42	MP1A	Mx	-.005	45
43	MP1B	X	14.325	21
44	MP1B	Z	0	21
45	MP1B	Mx	.005	21

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
46	MP1B	X	14.325	45
47	MP1B	Z	0	45
48	MP1B	Mx	.005	45
49	MP1C	X	14.325	21
50	MP1C	Z	0	21
51	MP1C	Mx	.005	21
52	MP1C	X	14.325	45
53	MP1C	Z	0	45
54	MP1C	Mx	.005	45
55	OVP1	X	22.846	12
56	OVP1	Z	0	12
57	OVP1	Mx	0	12
58	MP2A	X	10.23	15
59	MP2A	Z	0	15
60	MP2A	Mx	.009	15
61	MP2B	X	13.372	15
62	MP2B	Z	0	15
63	MP2B	Mx	-.006	15
64	MP2C	X	13.372	15
65	MP2C	Z	0	15
66	MP2C	Mx	-.006	15
67	MP3A	X	9.476	15
68	MP3A	Z	0	15
69	MP3A	Mx	.008	15
70	MP3B	X	13.184	15
71	MP3B	Z	0	15
72	MP3B	Mx	-.005	15
73	MP3C	X	13.184	15
74	MP3C	Z	0	15
75	MP3C	Mx	-.005	15
76	MP2A	X	5.033	52.2
77	MP2A	Z	0	52.2
78	MP2A	Mx	.002	52.2
79	MP2B	X	7.62	52.2
80	MP2B	Z	0	52.2
81	MP2B	Mx	-.002	52.2
82	MP2C	X	7.62	52.2
83	MP2C	Z	0	52.2
84	MP2C	Mx	-.002	52.2
85	MP4A	X	27.652	6
86	MP4A	Z	0	6
87	MP4A	Mx	-.018	6
88	MP4A	X	27.652	60
89	MP4A	Z	0	60
90	MP4A	Mx	-.018	60
91	MP4B	X	35.842	6
92	MP4B	Z	0	6
93	MP4B	Mx	.012	6
94	MP4B	X	35.842	60
95	MP4B	Z	0	60
96	MP4B	Mx	.012	60
97	MP4C	X	35.842	6
98	MP4C	Z	0	6
99	MP4C	Mx	.012	6
100	MP4C	X	35.842	60
101	MP4C	Z	0	60
102	MP4C	Mx	.012	60
103	OVP	X	22.846	12
104	OVP	Z	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	18.623	6
2	MP2A	Z	10.752	6
3	MP2A	Mx	-.02	6
4	MP2A	X	18.623	60
5	MP2A	Z	10.752	60
6	MP2A	Mx	-.02	60
7	MP2B	X	23.951	6
8	MP2B	Z	13.828	6
9	MP2B	Mx	.018	6
10	MP2B	X	23.951	60
11	MP2B	Z	13.828	60
12	MP2B	Mx	.018	60
13	MP2C	X	18.623	6
14	MP2C	Z	10.752	6
15	MP2C	Mx	.005	6
16	MP2C	X	18.623	60
17	MP2C	Z	10.752	60
18	MP2C	Mx	.005	60
19	MP2A	X	18.623	6
20	MP2A	Z	10.752	6
21	MP2A	Mx	-.005	6
22	MP2A	X	18.623	60
23	MP2A	Z	10.752	60
24	MP2A	Mx	-.005	60
25	MP2B	X	23.951	6
26	MP2B	Z	13.828	6
27	MP2B	Mx	-.018	6
28	MP2B	X	23.951	60
29	MP2B	Z	13.828	60
30	MP2B	Mx	-.018	60
31	MP2C	X	18.623	6
32	MP2C	Z	10.752	6
33	MP2C	Mx	.02	6
34	MP2C	X	18.623	60
35	MP2C	Z	10.752	60
36	MP2C	Mx	.02	60
37	MP1A	X	8.405	21
38	MP1A	Z	4.853	21
39	MP1A	Mx	-.006	21
40	MP1A	X	8.405	45
41	MP1A	Z	4.853	45
42	MP1A	Mx	-.006	45
43	MP1B	X	14.406	21
44	MP1B	Z	8.318	21
45	MP1B	Mx	0	21
46	MP1B	X	14.406	45
47	MP1B	Z	8.318	45
48	MP1B	Mx	0	45
49	MP1C	X	8.405	21
50	MP1C	Z	4.853	21
51	MP1C	Mx	.006	21
52	MP1C	X	8.405	45
53	MP1C	Z	4.853	45
54	MP1C	Mx	.006	45

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
55	OVP1	X	21.095	12
56	OVP1	Z	12.179	12
57	OVP1	Mx	0	12
58	MP2A	X	9.767	15
59	MP2A	Z	5.639	15
60	MP2A	Mx	.008	15
61	MP2B	X	12.488	15
62	MP2B	Z	7.21	15
63	MP2B	Mx	0	15
64	MP2C	X	9.767	15
65	MP2C	Z	5.639	15
66	MP2C	Mx	-.008	15
67	MP3A	X	9.277	15
68	MP3A	Z	5.356	15
69	MP3A	Mx	.008	15
70	MP3B	X	12.488	15
71	MP3B	Z	7.21	15
72	MP3B	Mx	0	15
73	MP3C	X	9.277	15
74	MP3C	Z	5.356	15
75	MP3C	Mx	-.008	15
76	MP2A	X	5.106	52.2
77	MP2A	Z	2.948	52.2
78	MP2A	Mx	.002	52.2
79	MP2B	X	7.346	52.2
80	MP2B	Z	4.241	52.2
81	MP2B	Mx	0	52.2
82	MP2C	X	5.106	52.2
83	MP2C	Z	2.948	52.2
84	MP2C	Mx	-.002	52.2
85	MP4A	X	27.721	6
86	MP4A	Z	16.005	6
87	MP4A	Mx	-.016	6
88	MP4A	X	27.721	60
89	MP4A	Z	16.005	60
90	MP4A	Mx	-.016	60
91	MP4B	X	33.503	6
92	MP4B	Z	19.343	6
93	MP4B	Mx	0	6
94	MP4B	X	33.503	60
95	MP4B	Z	19.343	60
96	MP4B	Mx	0	60
97	MP4C	X	26.114	6
98	MP4C	Z	15.077	6
99	MP4C	Mx	.017	6
100	MP4C	X	26.114	60
101	MP4C	Z	15.077	60
102	MP4C	Mx	.017	60
103	OVP	X	21.095	12
104	OVP	Z	12.179	12
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	12.803	6
2	MP2A	Z	22.175	6
3	MP2A	Mx	-.023	6
4	MP2A	X	12.803	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
5	MP2A	Z	22.175	60
6	MP2A	Mx	-.023	60
7	MP2B	X	12.803	6
8	MP2B	Z	22.175	6
9	MP2B	Mx	.006	6
10	MP2B	X	12.803	60
11	MP2B	Z	22.175	60
12	MP2B	Mx	.006	60
13	MP2C	X	9.727	6
14	MP2C	Z	16.847	6
15	MP2C	Mx	.013	6
16	MP2C	X	9.727	60
17	MP2C	Z	16.847	60
18	MP2C	Mx	.013	60
19	MP2A	X	12.803	6
20	MP2A	Z	22.175	6
21	MP2A	Mx	.006	6
22	MP2A	X	12.803	60
23	MP2A	Z	22.175	60
24	MP2A	Mx	.006	60
25	MP2B	X	12.803	6
26	MP2B	Z	22.175	6
27	MP2B	Mx	-.023	6
28	MP2B	X	12.803	60
29	MP2B	Z	22.175	60
30	MP2B	Mx	-.023	60
31	MP2C	X	9.727	6
32	MP2C	Z	16.847	6
33	MP2C	Mx	.013	6
34	MP2C	X	9.727	60
35	MP2C	Z	16.847	60
36	MP2C	Mx	.013	60
37	MP1A	X	7.163	21
38	MP1A	Z	12.406	21
39	MP1A	Mx	-.005	21
40	MP1A	X	7.163	45
41	MP1A	Z	12.406	45
42	MP1A	Mx	-.005	45
43	MP1B	X	7.163	21
44	MP1B	Z	12.406	21
45	MP1B	Mx	-.005	21
46	MP1B	X	7.163	45
47	MP1B	Z	12.406	45
48	MP1B	Mx	-.005	45
49	MP1C	X	3.698	21
50	MP1C	Z	6.405	21
51	MP1C	Mx	.005	21
52	MP1C	X	3.698	45
53	MP1C	Z	6.405	45
54	MP1C	Mx	.005	45
55	OVP1	X	13.692	12
56	OVP1	Z	23.715	12
57	OVP1	Mx	0	12
58	MP2A	X	6.686	15
59	MP2A	Z	11.581	15
60	MP2A	Mx	.006	15
61	MP2B	X	6.686	15
62	MP2B	Z	11.581	15
63	MP2B	Mx	.006	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
64	MP2C	X	5.115	15
65	MP2C	Z	8.86	15
66	MP2C	Mx	-.009	15
67	MP3A	X	6.592	15
68	MP3A	Z	11.418	15
69	MP3A	Mx	.005	15
70	MP3B	X	6.592	15
71	MP3B	Z	11.418	15
72	MP3B	Mx	.005	15
73	MP3C	X	4.738	15
74	MP3C	Z	8.207	15
75	MP3C	Mx	-.008	15
76	MP2A	X	3.81	52.2
77	MP2A	Z	6.599	52.2
78	MP2A	Mx	.002	52.2
79	MP2B	X	3.81	52.2
80	MP2B	Z	6.599	52.2
81	MP2B	Mx	.002	52.2
82	MP2C	X	2.517	52.2
83	MP2C	Z	4.359	52.2
84	MP2C	Mx	-.002	52.2
85	MP4A	X	18.677	6
86	MP4A	Z	32.35	6
87	MP4A	Mx	-.009	6
88	MP4A	X	18.677	60
89	MP4A	Z	32.35	60
90	MP4A	Mx	-.009	60
91	MP4B	X	17.921	6
92	MP4B	Z	31.04	6
93	MP4B	Mx	-.012	6
94	MP4B	X	17.921	60
95	MP4B	Z	31.04	60
96	MP4B	Mx	-.012	60
97	MP4C	X	13.655	6
98	MP4C	Z	23.651	6
99	MP4C	Mx	.018	6
100	MP4C	X	13.655	60
101	MP4C	Z	23.651	60
102	MP4C	Mx	.018	60
103	OVP	X	13.692	12
104	OVP	Z	23.715	12
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	0	6
2	MP2A	Z	27.656	6
3	MP2A	Mx	-.018	6
4	MP2A	X	0	60
5	MP2A	Z	27.656	60
6	MP2A	Mx	-.018	60
7	MP2B	X	0	6
8	MP2B	Z	21.504	6
9	MP2B	Mx	-.005	6
10	MP2B	X	0	60
11	MP2B	Z	21.504	60
12	MP2B	Mx	-.005	60
13	MP2C	X	0	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
14	MP2C	Z	21.504	6
15	MP2C	Mx	.02	6
16	MP2C	X	0	60
17	MP2C	Z	21.504	60
18	MP2C	Mx	.02	60
19	MP2A	X	0	6
20	MP2A	Z	27.656	6
21	MP2A	Mx	.018	6
22	MP2A	X	0	60
23	MP2A	Z	27.656	60
24	MP2A	Mx	.018	60
25	MP2B	X	0	6
26	MP2B	Z	21.504	6
27	MP2B	Mx	-.02	6
28	MP2B	X	0	60
29	MP2B	Z	21.504	60
30	MP2B	Mx	-.02	60
31	MP2C	X	0	6
32	MP2C	Z	21.504	6
33	MP2C	Mx	.005	6
34	MP2C	X	0	60
35	MP2C	Z	21.504	60
36	MP2C	Mx	.005	60
37	MP1A	X	0	21
38	MP1A	Z	16.635	21
39	MP1A	Mx	0	21
40	MP1A	X	0	45
41	MP1A	Z	16.635	45
42	MP1A	Mx	0	45
43	MP1B	X	0	21
44	MP1B	Z	9.706	21
45	MP1B	Mx	-.006	21
46	MP1B	X	0	45
47	MP1B	Z	9.706	45
48	MP1B	Mx	-.006	45
49	MP1C	X	0	21
50	MP1C	Z	9.706	21
51	MP1C	Mx	.006	21
52	MP1C	X	0	45
53	MP1C	Z	9.706	45
54	MP1C	Mx	.006	45
55	OVP1	X	0	12
56	OVP1	Z	28.895	12
57	OVP1	Mx	0	12
58	MP2A	X	0	15
59	MP2A	Z	14.42	15
60	MP2A	Mx	0	15
61	MP2B	X	0	15
62	MP2B	Z	11.278	15
63	MP2B	Mx	.008	15
64	MP2C	X	0	15
65	MP2C	Z	11.278	15
66	MP2C	Mx	-.008	15
67	MP3A	X	0	15
68	MP3A	Z	14.42	15
69	MP3A	Mx	0	15
70	MP3B	X	0	15
71	MP3B	Z	10.712	15
72	MP3B	Mx	.008	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
73	MP3C	X	0	15
74	MP3C	Z	10.712	15
75	MP3C	Mx	-.008	15
76	MP2A	X	0	52.2
77	MP2A	Z	8.482	52.2
78	MP2A	Mx	0	52.2
79	MP2B	X	0	52.2
80	MP2B	Z	5.895	52.2
81	MP2B	Mx	.002	52.2
82	MP2C	X	0	52.2
83	MP2C	Z	5.895	52.2
84	MP2C	Mx	-.002	52.2
85	MP4A	X	0	6
86	MP4A	Z	38.343	6
87	MP4A	Mx	.004	6
88	MP4A	X	0	60
89	MP4A	Z	38.343	60
90	MP4A	Mx	.004	60
91	MP4B	X	0	6
92	MP4B	Z	30.153	6
93	MP4B	Mx	-.017	6
94	MP4B	X	0	60
95	MP4B	Z	30.153	60
96	MP4B	Mx	-.017	60
97	MP4C	X	0	6
98	MP4C	Z	30.153	6
99	MP4C	Mx	.017	6
100	MP4C	X	0	60
101	MP4C	Z	30.153	60
102	MP4C	Mx	.017	60
103	OVP	X	0	12
104	OVP	Z	28.895	12
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-12.803	6
2	MP2A	Z	22.175	6
3	MP2A	Mx	-.006	6
4	MP2A	X	-12.803	60
5	MP2A	Z	22.175	60
6	MP2A	Mx	-.006	60
7	MP2B	X	-9.727	6
8	MP2B	Z	16.847	6
9	MP2B	Mx	-.013	6
10	MP2B	X	-9.727	60
11	MP2B	Z	16.847	60
12	MP2B	Mx	-.013	60
13	MP2C	X	-12.803	6
14	MP2C	Z	22.175	6
15	MP2C	Mx	.023	6
16	MP2C	X	-12.803	60
17	MP2C	Z	22.175	60
18	MP2C	Mx	.023	60
19	MP2A	X	-12.803	6
20	MP2A	Z	22.175	6
21	MP2A	Mx	.023	6
22	MP2A	X	-12.803	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
23	MP2A	Z	22.175	60
24	MP2A	Mx	.023	60
25	MP2B	X	-9.727	6
26	MP2B	Z	16.847	6
27	MP2B	Mx	-.013	6
28	MP2B	X	-9.727	60
29	MP2B	Z	16.847	60
30	MP2B	Mx	-.013	60
31	MP2C	X	-12.803	6
32	MP2C	Z	22.175	6
33	MP2C	Mx	-.006	6
34	MP2C	X	-12.803	60
35	MP2C	Z	22.175	60
36	MP2C	Mx	-.006	60
37	MP1A	X	-7.163	21
38	MP1A	Z	12.406	21
39	MP1A	Mx	.005	21
40	MP1A	X	-7.163	45
41	MP1A	Z	12.406	45
42	MP1A	Mx	.005	45
43	MP1B	X	-3.698	21
44	MP1B	Z	6.405	21
45	MP1B	Mx	-.005	21
46	MP1B	X	-3.698	45
47	MP1B	Z	6.405	45
48	MP1B	Mx	-.005	45
49	MP1C	X	-7.163	21
50	MP1C	Z	12.406	21
51	MP1C	Mx	.005	21
52	MP1C	X	-7.163	45
53	MP1C	Z	12.406	45
54	MP1C	Mx	.005	45
55	OVP1	X	-13.692	12
56	OVP1	Z	23.715	12
57	OVP1	Mx	0	12
58	MP2A	X	-6.686	15
59	MP2A	Z	11.581	15
60	MP2A	Mx	-.006	15
61	MP2B	X	-5.115	15
62	MP2B	Z	8.86	15
63	MP2B	Mx	.009	15
64	MP2C	X	-6.686	15
65	MP2C	Z	11.581	15
66	MP2C	Mx	-.006	15
67	MP3A	X	-6.592	15
68	MP3A	Z	11.418	15
69	MP3A	Mx	-.005	15
70	MP3B	X	-4.738	15
71	MP3B	Z	8.207	15
72	MP3B	Mx	.008	15
73	MP3C	X	-6.592	15
74	MP3C	Z	11.418	15
75	MP3C	Mx	-.005	15
76	MP2A	X	-3.81	52.2
77	MP2A	Z	6.599	52.2
78	MP2A	Mx	-.002	52.2
79	MP2B	X	-2.517	52.2
80	MP2B	Z	4.359	52.2
81	MP2B	Mx	.002	52.2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
82	MP2C	X	-3.81	52.2
83	MP2C	Z	6.599	52.2
84	MP2C	Mx	-.002	52.2
85	MP4A	X	-16.993	6
86	MP4A	Z	29.432	6
87	MP4A	Mx	.015	6
88	MP4A	X	-16.993	60
89	MP4A	Z	29.432	60
90	MP4A	Mx	.015	60
91	MP4B	X	-13.655	6
92	MP4B	Z	23.651	6
93	MP4B	Mx	-.018	6
94	MP4B	X	-13.655	60
95	MP4B	Z	23.651	60
96	MP4B	Mx	-.018	60
97	MP4C	X	-17.921	6
98	MP4C	Z	31.04	6
99	MP4C	Mx	.012	6
100	MP4C	X	-17.921	60
101	MP4C	Z	31.04	60
102	MP4C	Mx	.012	60
103	OVP	X	-13.692	12
104	OVP	Z	23.715	12
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-18.623	6
2	MP2A	Z	10.752	6
3	MP2A	Mx	.005	6
4	MP2A	X	-18.623	60
5	MP2A	Z	10.752	60
6	MP2A	Mx	.005	60
7	MP2B	X	-18.623	6
8	MP2B	Z	10.752	6
9	MP2B	Mx	-.02	6
10	MP2B	X	-18.623	60
11	MP2B	Z	10.752	60
12	MP2B	Mx	-.02	60
13	MP2C	X	-23.951	6
14	MP2C	Z	13.828	6
15	MP2C	Mx	.018	6
16	MP2C	X	-23.951	60
17	MP2C	Z	13.828	60
18	MP2C	Mx	.018	60
19	MP2A	X	-18.623	6
20	MP2A	Z	10.752	6
21	MP2A	Mx	.02	6
22	MP2A	X	-18.623	60
23	MP2A	Z	10.752	60
24	MP2A	Mx	.02	60
25	MP2B	X	-18.623	6
26	MP2B	Z	10.752	6
27	MP2B	Mx	-.005	6
28	MP2B	X	-18.623	60
29	MP2B	Z	10.752	60
30	MP2B	Mx	-.005	60
31	MP2C	X	-23.951	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
32	MP2C	Z	13.828	6
33	MP2C	Mx	-.018	6
34	MP2C	X	-23.951	60
35	MP2C	Z	13.828	60
36	MP2C	Mx	-.018	60
37	MP1A	X	-8.405	21
38	MP1A	Z	4.853	21
39	MP1A	Mx	.006	21
40	MP1A	X	-8.405	45
41	MP1A	Z	4.853	45
42	MP1A	Mx	.006	45
43	MP1B	X	-8.405	21
44	MP1B	Z	4.853	21
45	MP1B	Mx	-.006	21
46	MP1B	X	-8.405	45
47	MP1B	Z	4.853	45
48	MP1B	Mx	-.006	45
49	MP1C	X	-14.406	21
50	MP1C	Z	8.318	21
51	MP1C	Mx	0	21
52	MP1C	X	-14.406	45
53	MP1C	Z	8.318	45
54	MP1C	Mx	0	45
55	OVP1	X	-21.095	12
56	OVP1	Z	12.179	12
57	OVP1	Mx	0	12
58	MP2A	X	-9.767	15
59	MP2A	Z	5.639	15
60	MP2A	Mx	-.008	15
61	MP2B	X	-9.767	15
62	MP2B	Z	5.639	15
63	MP2B	Mx	.008	15
64	MP2C	X	-12.488	15
65	MP2C	Z	7.21	15
66	MP2C	Mx	0	15
67	MP3A	X	-9.277	15
68	MP3A	Z	5.356	15
69	MP3A	Mx	-.008	15
70	MP3B	X	-9.277	15
71	MP3B	Z	5.356	15
72	MP3B	Mx	.008	15
73	MP3C	X	-12.488	15
74	MP3C	Z	7.21	15
75	MP3C	Mx	0	15
76	MP2A	X	-5.106	52.2
77	MP2A	Z	2.948	52.2
78	MP2A	Mx	-.002	52.2
79	MP2B	X	-5.106	52.2
80	MP2B	Z	2.948	52.2
81	MP2B	Mx	.002	52.2
82	MP2C	X	-7.346	52.2
83	MP2C	Z	4.241	52.2
84	MP2C	Mx	0	52.2
85	MP4A	X	-24.803	6
86	MP4A	Z	14.32	6
87	MP4A	Mx	.018	6
88	MP4A	X	-24.803	60
89	MP4A	Z	14.32	60
90	MP4A	Mx	.018	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
91	MP4B	X	-26.114	6
92	MP4B	Z	15.077	6
93	MP4B	Mx	-.017	6
94	MP4B	X	-26.114	60
95	MP4B	Z	15.077	60
96	MP4B	Mx	-.017	60
97	MP4C	X	-33.503	6
98	MP4C	Z	19.343	6
99	MP4C	Mx	0	6
100	MP4C	X	-33.503	60
101	MP4C	Z	19.343	60
102	MP4C	Mx	0	60
103	OVP	X	-21.095	12
104	OVP	Z	12.179	12
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-19.454	6
2	MP2A	Z	0	6
3	MP2A	Mx	.013	6
4	MP2A	X	-19.454	60
5	MP2A	Z	0	60
6	MP2A	Mx	.013	60
7	MP2B	X	-25.606	6
8	MP2B	Z	0	6
9	MP2B	Mx	-.023	6
10	MP2B	X	-25.606	60
11	MP2B	Z	0	60
12	MP2B	Mx	-.023	60
13	MP2C	X	-25.606	6
14	MP2C	Z	0	6
15	MP2C	Mx	.006	6
16	MP2C	X	-25.606	60
17	MP2C	Z	0	60
18	MP2C	Mx	.006	60
19	MP2A	X	-19.454	6
20	MP2A	Z	0	6
21	MP2A	Mx	.013	6
22	MP2A	X	-19.454	60
23	MP2A	Z	0	60
24	MP2A	Mx	.013	60
25	MP2B	X	-25.606	6
26	MP2B	Z	0	6
27	MP2B	Mx	.006	6
28	MP2B	X	-25.606	60
29	MP2B	Z	0	60
30	MP2B	Mx	.006	60
31	MP2C	X	-25.606	6
32	MP2C	Z	0	6
33	MP2C	Mx	-.023	6
34	MP2C	X	-25.606	60
35	MP2C	Z	0	60
36	MP2C	Mx	-.023	60
37	MP1A	X	-7.396	21
38	MP1A	Z	0	21
39	MP1A	Mx	.005	21
40	MP1A	X	-7.396	45

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
41	MP1A	Z	0	45
42	MP1A	Mx	.005	45
43	MP1B	X	-14.325	21
44	MP1B	Z	0	21
45	MP1B	Mx	-.005	21
46	MP1B	X	-14.325	45
47	MP1B	Z	0	45
48	MP1B	Mx	-.005	45
49	MP1C	X	-14.325	21
50	MP1C	Z	0	21
51	MP1C	Mx	-.005	21
52	MP1C	X	-14.325	45
53	MP1C	Z	0	45
54	MP1C	Mx	-.005	45
55	OVP1	X	-22.846	12
56	OVP1	Z	0	12
57	OVP1	Mx	0	12
58	MP2A	X	-10.23	15
59	MP2A	Z	0	15
60	MP2A	Mx	-.009	15
61	MP2B	X	-13.372	15
62	MP2B	Z	0	15
63	MP2B	Mx	.006	15
64	MP2C	X	-13.372	15
65	MP2C	Z	0	15
66	MP2C	Mx	.006	15
67	MP3A	X	-9.476	15
68	MP3A	Z	0	15
69	MP3A	Mx	-.008	15
70	MP3B	X	-13.184	15
71	MP3B	Z	0	15
72	MP3B	Mx	.005	15
73	MP3C	X	-13.184	15
74	MP3C	Z	0	15
75	MP3C	Mx	.005	15
76	MP2A	X	-5.033	52.2
77	MP2A	Z	0	52.2
78	MP2A	Mx	-.002	52.2
79	MP2B	X	-7.62	52.2
80	MP2B	Z	0	52.2
81	MP2B	Mx	.002	52.2
82	MP2C	X	-7.62	52.2
83	MP2C	Z	0	52.2
84	MP2C	Mx	.002	52.2
85	MP4A	X	-27.652	6
86	MP4A	Z	0	6
87	MP4A	Mx	.018	6
88	MP4A	X	-27.652	60
89	MP4A	Z	0	60
90	MP4A	Mx	.018	60
91	MP4B	X	-35.842	6
92	MP4B	Z	0	6
93	MP4B	Mx	-.012	6
94	MP4B	X	-35.842	60
95	MP4B	Z	0	60
96	MP4B	Mx	-.012	60
97	MP4C	X	-35.842	6
98	MP4C	Z	0	6
99	MP4C	Mx	-.012	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
100	MP4C	X	-35.842	60
101	MP4C	Z	0	60
102	MP4C	Mx	-.012	60
103	OVP	X	-22.846	12
104	OVP	Z	0	12
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-18.623	6
2	MP2A	Z	-10.752	6
3	MP2A	Mx	.02	6
4	MP2A	X	-18.623	60
5	MP2A	Z	-10.752	60
6	MP2A	Mx	.02	60
7	MP2B	X	-23.951	6
8	MP2B	Z	-13.828	6
9	MP2B	Mx	-.018	6
10	MP2B	X	-23.951	60
11	MP2B	Z	-13.828	60
12	MP2B	Mx	-.018	60
13	MP2C	X	-18.623	6
14	MP2C	Z	-10.752	6
15	MP2C	Mx	-.005	6
16	MP2C	X	-18.623	60
17	MP2C	Z	-10.752	60
18	MP2C	Mx	-.005	60
19	MP2A	X	-18.623	6
20	MP2A	Z	-10.752	6
21	MP2A	Mx	.005	6
22	MP2A	X	-18.623	60
23	MP2A	Z	-10.752	60
24	MP2A	Mx	.005	60
25	MP2B	X	-23.951	6
26	MP2B	Z	-13.828	6
27	MP2B	Mx	.018	6
28	MP2B	X	-23.951	60
29	MP2B	Z	-13.828	60
30	MP2B	Mx	.018	60
31	MP2C	X	-18.623	6
32	MP2C	Z	-10.752	6
33	MP2C	Mx	-.02	6
34	MP2C	X	-18.623	60
35	MP2C	Z	-10.752	60
36	MP2C	Mx	-.02	60
37	MP1A	X	-8.405	21
38	MP1A	Z	-4.853	21
39	MP1A	Mx	.006	21
40	MP1A	X	-8.405	45
41	MP1A	Z	-4.853	45
42	MP1A	Mx	.006	45
43	MP1B	X	-14.406	21
44	MP1B	Z	-8.318	21
45	MP1B	Mx	0	21
46	MP1B	X	-14.406	45
47	MP1B	Z	-8.318	45
48	MP1B	Mx	0	45
49	MP1C	X	-8.405	21

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
50	MP1C	Z	-4.853	21
51	MP1C	Mx	-.006	21
52	MP1C	X	-8.405	45
53	MP1C	Z	-4.853	45
54	MP1C	Mx	-.006	45
55	OVP1	X	-21.095	12
56	OVP1	Z	-12.179	12
57	OVP1	Mx	0	12
58	MP2A	X	-9.767	15
59	MP2A	Z	-5.639	15
60	MP2A	Mx	-.008	15
61	MP2B	X	-12.488	15
62	MP2B	Z	-7.21	15
63	MP2B	Mx	0	15
64	MP2C	X	-9.767	15
65	MP2C	Z	-5.639	15
66	MP2C	Mx	.008	15
67	MP3A	X	-9.277	15
68	MP3A	Z	-5.356	15
69	MP3A	Mx	-.008	15
70	MP3B	X	-12.488	15
71	MP3B	Z	-7.21	15
72	MP3B	Mx	0	15
73	MP3C	X	-9.277	15
74	MP3C	Z	-5.356	15
75	MP3C	Mx	.008	15
76	MP2A	X	-5.106	52.2
77	MP2A	Z	-2.948	52.2
78	MP2A	Mx	-.002	52.2
79	MP2B	X	-7.346	52.2
80	MP2B	Z	-4.241	52.2
81	MP2B	Mx	0	52.2
82	MP2C	X	-5.106	52.2
83	MP2C	Z	-2.948	52.2
84	MP2C	Mx	.002	52.2
85	MP4A	X	-27.721	6
86	MP4A	Z	-16.005	6
87	MP4A	Mx	.016	6
88	MP4A	X	-27.721	60
89	MP4A	Z	-16.005	60
90	MP4A	Mx	.016	60
91	MP4B	X	-33.503	6
92	MP4B	Z	-19.343	6
93	MP4B	Mx	0	6
94	MP4B	X	-33.503	60
95	MP4B	Z	-19.343	60
96	MP4B	Mx	0	60
97	MP4C	X	-26.114	6
98	MP4C	Z	-15.077	6
99	MP4C	Mx	-.017	6
100	MP4C	X	-26.114	60
101	MP4C	Z	-15.077	60
102	MP4C	Mx	-.017	60
103	OVP	X	-21.095	12
104	OVP	Z	-12.179	12
105	OVP	Mx	0	12

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-12.803	6
2	MP2A	Z	-22.175	6
3	MP2A	Mx	.023	6
4	MP2A	X	-12.803	60
5	MP2A	Z	-22.175	60
6	MP2A	Mx	.023	60
7	MP2B	X	-12.803	6
8	MP2B	Z	-22.175	6
9	MP2B	Mx	-.006	6
10	MP2B	X	-12.803	60
11	MP2B	Z	-22.175	60
12	MP2B	Mx	-.006	60
13	MP2C	X	-9.727	6
14	MP2C	Z	-16.847	6
15	MP2C	Mx	-.013	6
16	MP2C	X	-9.727	60
17	MP2C	Z	-16.847	60
18	MP2C	Mx	-.013	60
19	MP2A	X	-12.803	6
20	MP2A	Z	-22.175	6
21	MP2A	Mx	-.006	6
22	MP2A	X	-12.803	60
23	MP2A	Z	-22.175	60
24	MP2A	Mx	-.006	60
25	MP2B	X	-12.803	6
26	MP2B	Z	-22.175	6
27	MP2B	Mx	.023	6
28	MP2B	X	-12.803	60
29	MP2B	Z	-22.175	60
30	MP2B	Mx	.023	60
31	MP2C	X	-9.727	6
32	MP2C	Z	-16.847	6
33	MP2C	Mx	-.013	6
34	MP2C	X	-9.727	60
35	MP2C	Z	-16.847	60
36	MP2C	Mx	-.013	60
37	MP1A	X	-7.163	21
38	MP1A	Z	-12.406	21
39	MP1A	Mx	.005	21
40	MP1A	X	-7.163	45
41	MP1A	Z	-12.406	45
42	MP1A	Mx	.005	45
43	MP1B	X	-7.163	21
44	MP1B	Z	-12.406	21
45	MP1B	Mx	.005	21
46	MP1B	X	-7.163	45
47	MP1B	Z	-12.406	45
48	MP1B	Mx	.005	45
49	MP1C	X	-3.698	21
50	MP1C	Z	-6.405	21
51	MP1C	Mx	-.005	21
52	MP1C	X	-3.698	45
53	MP1C	Z	-6.405	45
54	MP1C	Mx	-.005	45
55	OVP1	X	-13.692	12
56	OVP1	Z	-23.715	12
57	OVP1	Mx	0	12
58	MP2A	X	-6.686	15
59	MP2A	Z	-11.581	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
60	MP2A	Mx	-.006	15
61	MP2B	X	-6.686	15
62	MP2B	Z	-11.581	15
63	MP2B	Mx	-.006	15
64	MP2C	X	-5.115	15
65	MP2C	Z	-8.86	15
66	MP2C	Mx	.009	15
67	MP3A	X	-6.592	15
68	MP3A	Z	-11.418	15
69	MP3A	Mx	-.005	15
70	MP3B	X	-6.592	15
71	MP3B	Z	-11.418	15
72	MP3B	Mx	-.005	15
73	MP3C	X	-4.738	15
74	MP3C	Z	-8.207	15
75	MP3C	Mx	.008	15
76	MP2A	X	-3.81	52.2
77	MP2A	Z	-6.599	52.2
78	MP2A	Mx	-.002	52.2
79	MP2B	X	-3.81	52.2
80	MP2B	Z	-6.599	52.2
81	MP2B	Mx	-.002	52.2
82	MP2C	X	-2.517	52.2
83	MP2C	Z	-4.359	52.2
84	MP2C	Mx	.002	52.2
85	MP4A	X	-18.677	6
86	MP4A	Z	-32.35	6
87	MP4A	Mx	.009	6
88	MP4A	X	-18.677	60
89	MP4A	Z	-32.35	60
90	MP4A	Mx	.009	60
91	MP4B	X	-17.921	6
92	MP4B	Z	-31.04	6
93	MP4B	Mx	.012	6
94	MP4B	X	-17.921	60
95	MP4B	Z	-31.04	60
96	MP4B	Mx	.012	60
97	MP4C	X	-13.655	6
98	MP4C	Z	-23.651	6
99	MP4C	Mx	-.018	6
100	MP4C	X	-13.655	60
101	MP4C	Z	-23.651	60
102	MP4C	Mx	-.018	60
103	OVP	X	-13.692	12
104	OVP	Z	-23.715	12
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	0	6
2	MP2A	Z	-5.769	6
3	MP2A	Mx	.004	6
4	MP2A	X	0	60
5	MP2A	Z	-5.769	60
6	MP2A	Mx	.004	60
7	MP2B	X	0	6
8	MP2B	Z	-3.299	6
9	MP2B	Mx	.000805	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
10	MP2B	X	0	60
11	MP2B	Z	-3.299	60
12	MP2B	Mx	.000805	60
13	MP2C	X	0	6
14	MP2C	Z	-3.299	6
15	MP2C	Mx	-.003	6
16	MP2C	X	0	60
17	MP2C	Z	-3.299	60
18	MP2C	Mx	-.003	60
19	MP2A	X	0	6
20	MP2A	Z	-8.552	6
21	MP2A	Mx	-.006	6
22	MP2A	X	0	60
23	MP2A	Z	-8.552	60
24	MP2A	Mx	-.006	60
25	MP2B	X	0	6
26	MP2B	Z	-6.394	6
27	MP2B	Mx	.006	6
28	MP2B	X	0	60
29	MP2B	Z	-6.394	60
30	MP2B	Mx	.006	60
31	MP2C	X	0	6
32	MP2C	Z	-6.394	6
33	MP2C	Mx	-.002	6
34	MP2C	X	0	60
35	MP2C	Z	-6.394	60
36	MP2C	Mx	-.002	60
37	MP1A	X	0	21
38	MP1A	Z	-4.164	21
39	MP1A	Mx	0	21
40	MP1A	X	0	45
41	MP1A	Z	-4.164	45
42	MP1A	Mx	0	45
43	MP1B	X	0	21
44	MP1B	Z	-2.117	21
45	MP1B	Mx	.001	21
46	MP1B	X	0	45
47	MP1B	Z	-2.117	45
48	MP1B	Mx	.001	45
49	MP1C	X	0	21
50	MP1C	Z	-2.117	21
51	MP1C	Mx	-.001	21
52	MP1C	X	0	45
53	MP1C	Z	-2.117	45
54	MP1C	Mx	-.001	45
55	OVP1	X	0	12
56	OVP1	Z	-6.735	12
57	OVP1	Mx	0	12
58	MP2A	X	0	15
59	MP2A	Z	-3.293	15
60	MP2A	Mx	0	15
61	MP2B	X	0	15
62	MP2B	Z	-2.481	15
63	MP2B	Mx	-.002	15
64	MP2C	X	0	15
65	MP2C	Z	-2.481	15
66	MP2C	Mx	.002	15
67	MP3A	X	0	15
68	MP3A	Z	-3.293	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
69	MP3A	Mx	0	15
70	MP3B	X	0	15
71	MP3B	Z	-2.321	15
72	MP3B	Mx	-.002	15
73	MP3C	X	0	15
74	MP3C	Z	-2.321	15
75	MP3C	Mx	.002	15
76	MP2A	X	0	52.2
77	MP2A	Z	-1.53	52.2
78	MP2A	Mx	0	52.2
79	MP2B	X	0	52.2
80	MP2B	Z	-.924	52.2
81	MP2B	Mx	-.000333	52.2
82	MP2C	X	0	52.2
83	MP2C	Z	-.924	52.2
84	MP2C	Mx	.000333	52.2
85	MP4A	X	0	6
86	MP4A	Z	-12.064	6
87	MP4A	Mx	-.001	6
88	MP4A	X	0	60
89	MP4A	Z	-12.064	60
90	MP4A	Mx	-.001	60
91	MP4B	X	0	6
92	MP4B	Z	-9.178	6
93	MP4B	Mx	.005	6
94	MP4B	X	0	60
95	MP4B	Z	-9.178	60
96	MP4B	Mx	.005	60
97	MP4C	X	0	6
98	MP4C	Z	-9.178	6
99	MP4C	Mx	-.005	6
100	MP4C	X	0	60
101	MP4C	Z	-9.178	60
102	MP4C	Mx	-.005	60
103	OVP	X	0	12
104	OVP	Z	-6.735	12
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	2.473	6
2	MP2A	Z	-4.283	6
3	MP2A	Mx	.001	6
4	MP2A	X	2.473	60
5	MP2A	Z	-4.283	60
6	MP2A	Mx	.001	60
7	MP2B	X	1.238	6
8	MP2B	Z	-2.144	6
9	MP2B	Mx	.002	6
10	MP2B	X	1.238	60
11	MP2B	Z	-2.144	60
12	MP2B	Mx	.002	60
13	MP2C	X	2.473	6
14	MP2C	Z	-4.283	6
15	MP2C	Mx	-.005	6
16	MP2C	X	2.473	60
17	MP2C	Z	-4.283	60
18	MP2C	Mx	-.005	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
19	MP2A	X	3.916	6
20	MP2A	Z	-6.783	6
21	MP2A	Mx	-.007	6
22	MP2A	X	3.916	60
23	MP2A	Z	-6.783	60
24	MP2A	Mx	-.007	60
25	MP2B	X	2.837	6
26	MP2B	Z	-4.914	6
27	MP2B	Mx	.004	6
28	MP2B	X	2.837	60
29	MP2B	Z	-4.914	60
30	MP2B	Mx	.004	60
31	MP2C	X	3.916	6
32	MP2C	Z	-6.783	6
33	MP2C	Mx	.002	6
34	MP2C	X	3.916	60
35	MP2C	Z	-6.783	60
36	MP2C	Mx	.002	60
37	MP1A	X	1.741	21
38	MP1A	Z	-3.015	21
39	MP1A	Mx	-.001	21
40	MP1A	X	1.741	45
41	MP1A	Z	-3.015	45
42	MP1A	Mx	-.001	45
43	MP1B	X	.717	21
44	MP1B	Z	-1.242	21
45	MP1B	Mx	.000956	21
46	MP1B	X	.717	45
47	MP1B	Z	-1.242	45
48	MP1B	Mx	.000956	45
49	MP1C	X	1.741	21
50	MP1C	Z	-3.015	21
51	MP1C	Mx	-.001	21
52	MP1C	X	1.741	45
53	MP1C	Z	-3.015	45
54	MP1C	Mx	-.001	45
55	OVP1	X	3.166	12
56	OVP1	Z	-5.483	12
57	OVP1	Mx	0	12
58	MP2A	X	1.511	15
59	MP2A	Z	-2.617	15
60	MP2A	Mx	.001	15
61	MP2B	X	1.105	15
62	MP2B	Z	-1.914	15
63	MP2B	Mx	-.002	15
64	MP2C	X	1.511	15
65	MP2C	Z	-2.617	15
66	MP2C	Mx	.001	15
67	MP3A	X	1.485	15
68	MP3A	Z	-2.571	15
69	MP3A	Mx	.001	15
70	MP3B	X	.999	15
71	MP3B	Z	-1.73	15
72	MP3B	Mx	-.002	15
73	MP3C	X	1.485	15
74	MP3C	Z	-2.571	15
75	MP3C	Mx	.001	15
76	MP2A	X	.664	52.2
77	MP2A	Z	-1.15	52.2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
78	MP2A	Mx	.000277	52.2
79	MP2B	X	.361	52.2
80	MP2B	Z	-.626	52.2
81	MP2B	Mx	-.000301	52.2
82	MP2C	X	.664	52.2
83	MP2C	Z	-1.15	52.2
84	MP2C	Mx	.000277	52.2
85	MP4A	X	5.264	6
86	MP4A	Z	-9.118	6
87	MP4A	Mx	-.005	6
88	MP4A	X	5.264	60
89	MP4A	Z	-9.118	60
90	MP4A	Mx	-.005	60
91	MP4B	X	4.088	6
92	MP4B	Z	-7.081	6
93	MP4B	Mx	.005	6
94	MP4B	X	4.088	60
95	MP4B	Z	-7.081	60
96	MP4B	Mx	.005	60
97	MP4C	X	5.591	6
98	MP4C	Z	-9.685	6
99	MP4C	Mx	-.004	6
100	MP4C	X	5.591	60
101	MP4C	Z	-9.685	60
102	MP4C	Mx	-.004	60
103	OVP	X	3.166	12
104	OVP	Z	-5.483	12
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	2.857	6
2	MP2A	Z	-1.649	6
3	MP2A	Mx	-.000805	6
4	MP2A	X	2.857	60
5	MP2A	Z	-1.649	60
6	MP2A	Mx	-.000805	60
7	MP2B	X	2.857	6
8	MP2B	Z	-1.649	6
9	MP2B	Mx	.003	6
10	MP2B	X	2.857	60
11	MP2B	Z	-1.649	60
12	MP2B	Mx	.003	60
13	MP2C	X	4.996	6
14	MP2C	Z	-2.884	6
15	MP2C	Mx	-.004	6
16	MP2C	X	4.996	60
17	MP2C	Z	-2.884	60
18	MP2C	Mx	-.004	60
19	MP2A	X	5.537	6
20	MP2A	Z	-3.197	6
21	MP2A	Mx	-.006	6
22	MP2A	X	5.537	60
23	MP2A	Z	-3.197	60
24	MP2A	Mx	-.006	60
25	MP2B	X	5.537	6
26	MP2B	Z	-3.197	6
27	MP2B	Mx	.002	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
28	MP2B	X	5.537	60
29	MP2B	Z	-3.197	60
30	MP2B	Mx	.002	60
31	MP2C	X	7.406	6
32	MP2C	Z	-4.276	6
33	MP2C	Mx	.006	6
34	MP2C	X	7.406	60
35	MP2C	Z	-4.276	60
36	MP2C	Mx	.006	60
37	MP1A	X	1.833	21
38	MP1A	Z	-1.058	21
39	MP1A	Mx	-.001	21
40	MP1A	X	1.833	45
41	MP1A	Z	-1.058	45
42	MP1A	Mx	-.001	45
43	MP1B	X	1.833	21
44	MP1B	Z	-1.058	21
45	MP1B	Mx	.001	21
46	MP1B	X	1.833	45
47	MP1B	Z	-1.058	45
48	MP1B	Mx	.001	45
49	MP1C	X	3.606	21
50	MP1C	Z	-2.082	21
51	MP1C	Mx	0	21
52	MP1C	X	3.606	45
53	MP1C	Z	-2.082	45
54	MP1C	Mx	0	45
55	OVP1	X	4.784	12
56	OVP1	Z	-2.762	12
57	OVP1	Mx	0	12
58	MP2A	X	2.148	15
59	MP2A	Z	-1.24	15
60	MP2A	Mx	.002	15
61	MP2B	X	2.148	15
62	MP2B	Z	-1.24	15
63	MP2B	Mx	-.002	15
64	MP2C	X	2.852	15
65	MP2C	Z	-1.647	15
66	MP2C	Mx	0	15
67	MP3A	X	2.01	15
68	MP3A	Z	-1.161	15
69	MP3A	Mx	.002	15
70	MP3B	X	2.01	15
71	MP3B	Z	-1.161	15
72	MP3B	Mx	-.002	15
73	MP3C	X	2.852	15
74	MP3C	Z	-1.647	15
75	MP3C	Mx	0	15
76	MP2A	X	.8	52.2
77	MP2A	Z	-.462	52.2
78	MP2A	Mx	.000333	52.2
79	MP2B	X	.8	52.2
80	MP2B	Z	-.462	52.2
81	MP2B	Mx	-.000333	52.2
82	MP2C	X	1.325	52.2
83	MP2C	Z	-.765	52.2
84	MP2C	Mx	0	52.2
85	MP4A	X	7.487	6
86	MP4A	Z	-4.323	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
87	MP4A	Mx	-.005	6
88	MP4A	X	7.487	60
89	MP4A	Z	-4.323	60
90	MP4A	Mx	-.005	60
91	MP4B	X	7.949	6
92	MP4B	Z	-4.589	6
93	MP4B	Mx	.005	6
94	MP4B	X	7.949	60
95	MP4B	Z	-4.589	60
96	MP4B	Mx	.005	60
97	MP4C	X	10.553	6
98	MP4C	Z	-6.093	6
99	MP4C	Mx	0	6
100	MP4C	X	10.553	60
101	MP4C	Z	-6.093	60
102	MP4C	Mx	0	60
103	OVP	X	4.784	12
104	OVP	Z	-2.762	12
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	2.475	6
2	MP2A	Z	0	6
3	MP2A	Mx	-.002	6
4	MP2A	X	2.475	60
5	MP2A	Z	0	60
6	MP2A	Mx	-.002	60
7	MP2B	X	4.945	6
8	MP2B	Z	0	6
9	MP2B	Mx	.005	6
10	MP2B	X	4.945	60
11	MP2B	Z	0	60
12	MP2B	Mx	.005	60
13	MP2C	X	4.945	6
14	MP2C	Z	0	6
15	MP2C	Mx	-.001	6
16	MP2C	X	4.945	60
17	MP2C	Z	0	60
18	MP2C	Mx	-.001	60
19	MP2A	X	5.675	6
20	MP2A	Z	0	6
21	MP2A	Mx	-.004	6
22	MP2A	X	5.675	60
23	MP2A	Z	0	60
24	MP2A	Mx	-.004	60
25	MP2B	X	7.833	6
26	MP2B	Z	0	6
27	MP2B	Mx	-.002	6
28	MP2B	X	7.833	60
29	MP2B	Z	0	60
30	MP2B	Mx	-.002	60
31	MP2C	X	7.833	6
32	MP2C	Z	0	6
33	MP2C	Mx	.007	6
34	MP2C	X	7.833	60
35	MP2C	Z	0	60
36	MP2C	Mx	.007	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
37	MP1A	X	1.434	21
38	MP1A	Z	0	21
39	MP1A	Mx	-.000956	21
40	MP1A	X	1.434	45
41	MP1A	Z	0	45
42	MP1A	Mx	-.000956	45
43	MP1B	X	3.482	21
44	MP1B	Z	0	21
45	MP1B	Mx	.001	21
46	MP1B	X	3.482	45
47	MP1B	Z	0	45
48	MP1B	Mx	.001	45
49	MP1C	X	3.482	21
50	MP1C	Z	0	21
51	MP1C	Mx	.001	21
52	MP1C	X	3.482	45
53	MP1C	Z	0	45
54	MP1C	Mx	.001	45
55	OVP1	X	5.12	12
56	OVP1	Z	0	12
57	OVP1	Mx	0	12
58	MP2A	X	2.21	15
59	MP2A	Z	0	15
60	MP2A	Mx	.002	15
61	MP2B	X	3.022	15
62	MP2B	Z	0	15
63	MP2B	Mx	-.001	15
64	MP2C	X	3.022	15
65	MP2C	Z	0	15
66	MP2C	Mx	-.001	15
67	MP3A	X	1.997	15
68	MP3A	Z	0	15
69	MP3A	Mx	.002	15
70	MP3B	X	2.969	15
71	MP3B	Z	0	15
72	MP3B	Mx	-.001	15
73	MP3C	X	2.969	15
74	MP3C	Z	0	15
75	MP3C	Mx	-.001	15
76	MP2A	X	.722	52.2
77	MP2A	Z	0	52.2
78	MP2A	Mx	.000301	52.2
79	MP2B	X	1.328	52.2
80	MP2B	Z	0	52.2
81	MP2B	Mx	-.000277	52.2
82	MP2C	X	1.328	52.2
83	MP2C	Z	0	52.2
84	MP2C	Mx	-.000277	52.2
85	MP4A	X	8.297	6
86	MP4A	Z	0	6
87	MP4A	Mx	-.005	6
88	MP4A	X	8.297	60
89	MP4A	Z	0	60
90	MP4A	Mx	-.005	60
91	MP4B	X	11.183	6
92	MP4B	Z	0	6
93	MP4B	Mx	.004	6
94	MP4B	X	11.183	60
95	MP4B	Z	0	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
96	MP4B	Mx	.004	60
97	MP4C	X	11.183	6
98	MP4C	Z	0	6
99	MP4C	Mx	.004	6
100	MP4C	X	11.183	60
101	MP4C	Z	0	60
102	MP4C	Mx	.004	60
103	OVP	X	5.12	12
104	OVP	Z	0	12
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	2.857	6
2	MP2A	Z	1.649	6
3	MP2A	Mx	-.003	6
4	MP2A	X	2.857	60
5	MP2A	Z	1.649	60
6	MP2A	Mx	-.003	60
7	MP2B	X	4.996	6
8	MP2B	Z	2.884	6
9	MP2B	Mx	.004	6
10	MP2B	X	4.996	60
11	MP2B	Z	2.884	60
12	MP2B	Mx	.004	60
13	MP2C	X	2.857	6
14	MP2C	Z	1.649	6
15	MP2C	Mx	.000805	6
16	MP2C	X	2.857	60
17	MP2C	Z	1.649	60
18	MP2C	Mx	.000805	60
19	MP2A	X	5.537	6
20	MP2A	Z	3.197	6
21	MP2A	Mx	-.002	6
22	MP2A	X	5.537	60
23	MP2A	Z	3.197	60
24	MP2A	Mx	-.002	60
25	MP2B	X	7.406	6
26	MP2B	Z	4.276	6
27	MP2B	Mx	-.006	6
28	MP2B	X	7.406	60
29	MP2B	Z	4.276	60
30	MP2B	Mx	-.006	60
31	MP2C	X	5.537	6
32	MP2C	Z	3.197	6
33	MP2C	Mx	.006	6
34	MP2C	X	5.537	60
35	MP2C	Z	3.197	60
36	MP2C	Mx	.006	60
37	MP1A	X	1.833	21
38	MP1A	Z	1.058	21
39	MP1A	Mx	-.001	21
40	MP1A	X	1.833	45
41	MP1A	Z	1.058	45
42	MP1A	Mx	-.001	45
43	MP1B	X	3.606	21
44	MP1B	Z	2.082	21
45	MP1B	Mx	0	21

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
46	MP1B	X	3.606	45
47	MP1B	Z	2.082	45
48	MP1B	Mx	0	45
49	MP1C	X	1.833	21
50	MP1C	Z	1.058	21
51	MP1C	Mx	.001	21
52	MP1C	X	1.833	45
53	MP1C	Z	1.058	45
54	MP1C	Mx	.001	45
55	OVP1	X	4.784	12
56	OVP1	Z	2.762	12
57	OVP1	Mx	0	12
58	MP2A	X	2.148	15
59	MP2A	Z	1.24	15
60	MP2A	Mx	.002	15
61	MP2B	X	2.852	15
62	MP2B	Z	1.647	15
63	MP2B	Mx	0	15
64	MP2C	X	2.148	15
65	MP2C	Z	1.24	15
66	MP2C	Mx	-.002	15
67	MP3A	X	2.01	15
68	MP3A	Z	1.161	15
69	MP3A	Mx	.002	15
70	MP3B	X	2.852	15
71	MP3B	Z	1.647	15
72	MP3B	Mx	0	15
73	MP3C	X	2.01	15
74	MP3C	Z	1.161	15
75	MP3C	Mx	-.002	15
76	MP2A	X	.8	52.2
77	MP2A	Z	.462	52.2
78	MP2A	Mx	.000333	52.2
79	MP2B	X	1.325	52.2
80	MP2B	Z	.765	52.2
81	MP2B	Mx	0	52.2
82	MP2C	X	.8	52.2
83	MP2C	Z	.462	52.2
84	MP2C	Mx	-.000333	52.2
85	MP4A	X	8.515	6
86	MP4A	Z	4.916	6
87	MP4A	Mx	-.005	6
88	MP4A	X	8.515	60
89	MP4A	Z	4.916	60
90	MP4A	Mx	-.005	60
91	MP4B	X	10.553	6
92	MP4B	Z	6.093	6
93	MP4B	Mx	0	6
94	MP4B	X	10.553	60
95	MP4B	Z	6.093	60
96	MP4B	Mx	0	60
97	MP4C	X	7.949	6
98	MP4C	Z	4.589	6
99	MP4C	Mx	.005	6
100	MP4C	X	7.949	60
101	MP4C	Z	4.589	60
102	MP4C	Mx	.005	60
103	OVP	X	4.784	12
104	OVP	Z	2.762	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	2.473	6
2	MP2A	Z	4.283	6
3	MP2A	Mx	-.005	6
4	MP2A	X	2.473	60
5	MP2A	Z	4.283	60
6	MP2A	Mx	-.005	60
7	MP2B	X	2.473	6
8	MP2B	Z	4.283	6
9	MP2B	Mx	.001	6
10	MP2B	X	2.473	60
11	MP2B	Z	4.283	60
12	MP2B	Mx	.001	60
13	MP2C	X	1.238	6
14	MP2C	Z	2.144	6
15	MP2C	Mx	.002	6
16	MP2C	X	1.238	60
17	MP2C	Z	2.144	60
18	MP2C	Mx	.002	60
19	MP2A	X	3.916	6
20	MP2A	Z	6.783	6
21	MP2A	Mx	.002	6
22	MP2A	X	3.916	60
23	MP2A	Z	6.783	60
24	MP2A	Mx	.002	60
25	MP2B	X	3.916	6
26	MP2B	Z	6.783	6
27	MP2B	Mx	-.007	6
28	MP2B	X	3.916	60
29	MP2B	Z	6.783	60
30	MP2B	Mx	-.007	60
31	MP2C	X	2.837	6
32	MP2C	Z	4.914	6
33	MP2C	Mx	.004	6
34	MP2C	X	2.837	60
35	MP2C	Z	4.914	60
36	MP2C	Mx	.004	60
37	MP1A	X	1.741	21
38	MP1A	Z	3.015	21
39	MP1A	Mx	-.001	21
40	MP1A	X	1.741	45
41	MP1A	Z	3.015	45
42	MP1A	Mx	-.001	45
43	MP1B	X	1.741	21
44	MP1B	Z	3.015	21
45	MP1B	Mx	-.001	21
46	MP1B	X	1.741	45
47	MP1B	Z	3.015	45
48	MP1B	Mx	-.001	45
49	MP1C	X	.717	21
50	MP1C	Z	1.242	21
51	MP1C	Mx	.000956	21
52	MP1C	X	.717	45
53	MP1C	Z	1.242	45
54	MP1C	Mx	.000956	45

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
55	OVP1	X	3.166	12
56	OVP1	Z	5.483	12
57	OVP1	Mx	0	12
58	MP2A	X	1.511	15
59	MP2A	Z	2.617	15
60	MP2A	Mx	.001	15
61	MP2B	X	1.511	15
62	MP2B	Z	2.617	15
63	MP2B	Mx	.001	15
64	MP2C	X	1.105	15
65	MP2C	Z	1.914	15
66	MP2C	Mx	-.002	15
67	MP3A	X	1.485	15
68	MP3A	Z	2.571	15
69	MP3A	Mx	.001	15
70	MP3B	X	1.485	15
71	MP3B	Z	2.571	15
72	MP3B	Mx	.001	15
73	MP3C	X	.999	15
74	MP3C	Z	1.73	15
75	MP3C	Mx	-.002	15
76	MP2A	X	.664	52.2
77	MP2A	Z	1.15	52.2
78	MP2A	Mx	.000277	52.2
79	MP2B	X	.664	52.2
80	MP2B	Z	1.15	52.2
81	MP2B	Mx	.000277	52.2
82	MP2C	X	.361	52.2
83	MP2C	Z	.626	52.2
84	MP2C	Mx	-.000301	52.2
85	MP4A	X	5.858	6
86	MP4A	Z	10.146	6
87	MP4A	Mx	-.003	6
88	MP4A	X	5.858	60
89	MP4A	Z	10.146	60
90	MP4A	Mx	-.003	60
91	MP4B	X	5.591	6
92	MP4B	Z	9.685	6
93	MP4B	Mx	-.004	6
94	MP4B	X	5.591	60
95	MP4B	Z	9.685	60
96	MP4B	Mx	-.004	60
97	MP4C	X	4.088	6
98	MP4C	Z	7.081	6
99	MP4C	Mx	.005	6
100	MP4C	X	4.088	60
101	MP4C	Z	7.081	60
102	MP4C	Mx	.005	60
103	OVP	X	3.166	12
104	OVP	Z	5.483	12
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	0	6
2	MP2A	Z	5.769	6
3	MP2A	Mx	-.004	6
4	MP2A	X	0	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
5	MP2A	Z	5.769	60
6	MP2A	Mx	-.004	60
7	MP2B	X	0	6
8	MP2B	Z	3.299	6
9	MP2B	Mx	-.000805	6
10	MP2B	X	0	60
11	MP2B	Z	3.299	60
12	MP2B	Mx	-.000805	60
13	MP2C	X	0	6
14	MP2C	Z	3.299	6
15	MP2C	Mx	.003	6
16	MP2C	X	0	60
17	MP2C	Z	3.299	60
18	MP2C	Mx	.003	60
19	MP2A	X	0	6
20	MP2A	Z	8.552	6
21	MP2A	Mx	.006	6
22	MP2A	X	0	60
23	MP2A	Z	8.552	60
24	MP2A	Mx	.006	60
25	MP2B	X	0	6
26	MP2B	Z	6.394	6
27	MP2B	Mx	-.006	6
28	MP2B	X	0	60
29	MP2B	Z	6.394	60
30	MP2B	Mx	-.006	60
31	MP2C	X	0	6
32	MP2C	Z	6.394	6
33	MP2C	Mx	.002	6
34	MP2C	X	0	60
35	MP2C	Z	6.394	60
36	MP2C	Mx	.002	60
37	MP1A	X	0	21
38	MP1A	Z	4.164	21
39	MP1A	Mx	0	21
40	MP1A	X	0	45
41	MP1A	Z	4.164	45
42	MP1A	Mx	0	45
43	MP1B	X	0	21
44	MP1B	Z	2.117	21
45	MP1B	Mx	-.001	21
46	MP1B	X	0	45
47	MP1B	Z	2.117	45
48	MP1B	Mx	-.001	45
49	MP1C	X	0	21
50	MP1C	Z	2.117	21
51	MP1C	Mx	.001	21
52	MP1C	X	0	45
53	MP1C	Z	2.117	45
54	MP1C	Mx	.001	45
55	OVP1	X	0	12
56	OVP1	Z	6.735	12
57	OVP1	Mx	0	12
58	MP2A	X	0	15
59	MP2A	Z	3.293	15
60	MP2A	Mx	0	15
61	MP2B	X	0	15
62	MP2B	Z	2.481	15
63	MP2B	Mx	.002	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
64	MP2C	X	0	15
65	MP2C	Z	2.481	15
66	MP2C	Mx	-.002	15
67	MP3A	X	0	15
68	MP3A	Z	3.293	15
69	MP3A	Mx	0	15
70	MP3B	X	0	15
71	MP3B	Z	2.321	15
72	MP3B	Mx	.002	15
73	MP3C	X	0	15
74	MP3C	Z	2.321	15
75	MP3C	Mx	-.002	15
76	MP2A	X	0	52.2
77	MP2A	Z	1.53	52.2
78	MP2A	Mx	0	52.2
79	MP2B	X	0	52.2
80	MP2B	Z	.924	52.2
81	MP2B	Mx	.000333	52.2
82	MP2C	X	0	52.2
83	MP2C	Z	.924	52.2
84	MP2C	Mx	-.000333	52.2
85	MP4A	X	0	6
86	MP4A	Z	12.064	6
87	MP4A	Mx	.001	6
88	MP4A	X	0	60
89	MP4A	Z	12.064	60
90	MP4A	Mx	.001	60
91	MP4B	X	0	6
92	MP4B	Z	9.178	6
93	MP4B	Mx	-.005	6
94	MP4B	X	0	60
95	MP4B	Z	9.178	60
96	MP4B	Mx	-.005	60
97	MP4C	X	0	6
98	MP4C	Z	9.178	6
99	MP4C	Mx	.005	6
100	MP4C	X	0	60
101	MP4C	Z	9.178	60
102	MP4C	Mx	.005	60
103	OVP	X	0	12
104	OVP	Z	6.735	12
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-2.473	6
2	MP2A	Z	4.283	6
3	MP2A	Mx	-.001	6
4	MP2A	X	-2.473	60
5	MP2A	Z	4.283	60
6	MP2A	Mx	-.001	60
7	MP2B	X	-1.238	6
8	MP2B	Z	2.144	6
9	MP2B	Mx	-.002	6
10	MP2B	X	-1.238	60
11	MP2B	Z	2.144	60
12	MP2B	Mx	-.002	60
13	MP2C	X	-2.473	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
14	MP2C	Z	4.283	6
15	MP2C	Mx	.005	6
16	MP2C	X	-2.473	60
17	MP2C	Z	4.283	60
18	MP2C	Mx	.005	60
19	MP2A	X	-3.916	6
20	MP2A	Z	6.783	6
21	MP2A	Mx	.007	6
22	MP2A	X	-3.916	60
23	MP2A	Z	6.783	60
24	MP2A	Mx	.007	60
25	MP2B	X	-2.837	6
26	MP2B	Z	4.914	6
27	MP2B	Mx	-.004	6
28	MP2B	X	-2.837	60
29	MP2B	Z	4.914	60
30	MP2B	Mx	-.004	60
31	MP2C	X	-3.916	6
32	MP2C	Z	6.783	6
33	MP2C	Mx	-.002	6
34	MP2C	X	-3.916	60
35	MP2C	Z	6.783	60
36	MP2C	Mx	-.002	60
37	MP1A	X	-1.741	21
38	MP1A	Z	3.015	21
39	MP1A	Mx	.001	21
40	MP1A	X	-1.741	45
41	MP1A	Z	3.015	45
42	MP1A	Mx	.001	45
43	MP1B	X	-.717	21
44	MP1B	Z	1.242	21
45	MP1B	Mx	-.000956	21
46	MP1B	X	-.717	45
47	MP1B	Z	1.242	45
48	MP1B	Mx	-.000956	45
49	MP1C	X	-1.741	21
50	MP1C	Z	3.015	21
51	MP1C	Mx	.001	21
52	MP1C	X	-1.741	45
53	MP1C	Z	3.015	45
54	MP1C	Mx	.001	45
55	OVP1	X	-3.166	12
56	OVP1	Z	5.483	12
57	OVP1	Mx	0	12
58	MP2A	X	-1.511	15
59	MP2A	Z	2.617	15
60	MP2A	Mx	-.001	15
61	MP2B	X	-1.105	15
62	MP2B	Z	1.914	15
63	MP2B	Mx	.002	15
64	MP2C	X	-1.511	15
65	MP2C	Z	2.617	15
66	MP2C	Mx	-.001	15
67	MP3A	X	-1.485	15
68	MP3A	Z	2.571	15
69	MP3A	Mx	-.001	15
70	MP3B	X	-.999	15
71	MP3B	Z	1.73	15
72	MP3B	Mx	.002	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
73	MP3C	X	-1.485	15
74	MP3C	Z	2.571	15
75	MP3C	Mx	-.001	15
76	MP2A	X	-.664	52.2
77	MP2A	Z	1.15	52.2
78	MP2A	Mx	-.000277	52.2
79	MP2B	X	-.361	52.2
80	MP2B	Z	.626	52.2
81	MP2B	Mx	.000301	52.2
82	MP2C	X	-.664	52.2
83	MP2C	Z	1.15	52.2
84	MP2C	Mx	-.000277	52.2
85	MP4A	X	-5.264	6
86	MP4A	Z	9.118	6
87	MP4A	Mx	.005	6
88	MP4A	X	-5.264	60
89	MP4A	Z	9.118	60
90	MP4A	Mx	.005	60
91	MP4B	X	-4.088	6
92	MP4B	Z	7.081	6
93	MP4B	Mx	-.005	6
94	MP4B	X	-4.088	60
95	MP4B	Z	7.081	60
96	MP4B	Mx	-.005	60
97	MP4C	X	-5.591	6
98	MP4C	Z	9.685	6
99	MP4C	Mx	.004	6
100	MP4C	X	-5.591	60
101	MP4C	Z	9.685	60
102	MP4C	Mx	.004	60
103	OVP	X	-3.166	12
104	OVP	Z	5.483	12
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-2.857	6
2	MP2A	Z	1.649	6
3	MP2A	Mx	.000805	6
4	MP2A	X	-2.857	60
5	MP2A	Z	1.649	60
6	MP2A	Mx	.000805	60
7	MP2B	X	-2.857	6
8	MP2B	Z	1.649	6
9	MP2B	Mx	-.003	6
10	MP2B	X	-2.857	60
11	MP2B	Z	1.649	60
12	MP2B	Mx	-.003	60
13	MP2C	X	-4.996	6
14	MP2C	Z	2.884	6
15	MP2C	Mx	.004	6
16	MP2C	X	-4.996	60
17	MP2C	Z	2.884	60
18	MP2C	Mx	.004	60
19	MP2A	X	-5.537	6
20	MP2A	Z	3.197	6
21	MP2A	Mx	.006	6
22	MP2A	X	-5.537	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
23	MP2A	Z	3.197	60
24	MP2A	Mx	.006	60
25	MP2B	X	-5.537	6
26	MP2B	Z	3.197	6
27	MP2B	Mx	-.002	6
28	MP2B	X	-5.537	60
29	MP2B	Z	3.197	60
30	MP2B	Mx	-.002	60
31	MP2C	X	-7.406	6
32	MP2C	Z	4.276	6
33	MP2C	Mx	-.006	6
34	MP2C	X	-7.406	60
35	MP2C	Z	4.276	60
36	MP2C	Mx	-.006	60
37	MP1A	X	-1.833	21
38	MP1A	Z	1.058	21
39	MP1A	Mx	.001	21
40	MP1A	X	-1.833	45
41	MP1A	Z	1.058	45
42	MP1A	Mx	.001	45
43	MP1B	X	-1.833	21
44	MP1B	Z	1.058	21
45	MP1B	Mx	-.001	21
46	MP1B	X	-1.833	45
47	MP1B	Z	1.058	45
48	MP1B	Mx	-.001	45
49	MP1C	X	-3.606	21
50	MP1C	Z	2.082	21
51	MP1C	Mx	0	21
52	MP1C	X	-3.606	45
53	MP1C	Z	2.082	45
54	MP1C	Mx	0	45
55	OVP1	X	-4.784	12
56	OVP1	Z	2.762	12
57	OVP1	Mx	0	12
58	MP2A	X	-2.148	15
59	MP2A	Z	1.24	15
60	MP2A	Mx	-.002	15
61	MP2B	X	-2.148	15
62	MP2B	Z	1.24	15
63	MP2B	Mx	.002	15
64	MP2C	X	-2.852	15
65	MP2C	Z	1.647	15
66	MP2C	Mx	0	15
67	MP3A	X	-2.01	15
68	MP3A	Z	1.161	15
69	MP3A	Mx	-.002	15
70	MP3B	X	-2.01	15
71	MP3B	Z	1.161	15
72	MP3B	Mx	.002	15
73	MP3C	X	-2.852	15
74	MP3C	Z	1.647	15
75	MP3C	Mx	0	15
76	MP2A	X	-.8	52.2
77	MP2A	Z	.462	52.2
78	MP2A	Mx	-.000333	52.2
79	MP2B	X	-.8	52.2
80	MP2B	Z	.462	52.2
81	MP2B	Mx	.000333	52.2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
82	MP2C	X	-1.325	52.2
83	MP2C	Z	.765	52.2
84	MP2C	Mx	0	52.2
85	MP4A	X	-7.487	6
86	MP4A	Z	4.323	6
87	MP4A	Mx	.005	6
88	MP4A	X	-7.487	60
89	MP4A	Z	4.323	60
90	MP4A	Mx	.005	60
91	MP4B	X	-7.949	6
92	MP4B	Z	4.589	6
93	MP4B	Mx	-.005	6
94	MP4B	X	-7.949	60
95	MP4B	Z	4.589	60
96	MP4B	Mx	-.005	60
97	MP4C	X	-10.553	6
98	MP4C	Z	6.093	6
99	MP4C	Mx	0	6
100	MP4C	X	-10.553	60
101	MP4C	Z	6.093	60
102	MP4C	Mx	0	60
103	OVP	X	-4.784	12
104	OVP	Z	2.762	12
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-2.475	6
2	MP2A	Z	0	6
3	MP2A	Mx	.002	6
4	MP2A	X	-2.475	60
5	MP2A	Z	0	60
6	MP2A	Mx	.002	60
7	MP2B	X	-4.945	6
8	MP2B	Z	0	6
9	MP2B	Mx	-.005	6
10	MP2B	X	-4.945	60
11	MP2B	Z	0	60
12	MP2B	Mx	-.005	60
13	MP2C	X	-4.945	6
14	MP2C	Z	0	6
15	MP2C	Mx	.001	6
16	MP2C	X	-4.945	60
17	MP2C	Z	0	60
18	MP2C	Mx	.001	60
19	MP2A	X	-5.675	6
20	MP2A	Z	0	6
21	MP2A	Mx	.004	6
22	MP2A	X	-5.675	60
23	MP2A	Z	0	60
24	MP2A	Mx	.004	60
25	MP2B	X	-7.833	6
26	MP2B	Z	0	6
27	MP2B	Mx	.002	6
28	MP2B	X	-7.833	60
29	MP2B	Z	0	60
30	MP2B	Mx	.002	60
31	MP2C	X	-7.833	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
32	MP2C	Z	0	6
33	MP2C	Mx	-.007	6
34	MP2C	X	-7.833	60
35	MP2C	Z	0	60
36	MP2C	Mx	-.007	60
37	MP1A	X	-1.434	21
38	MP1A	Z	0	21
39	MP1A	Mx	.000956	21
40	MP1A	X	-1.434	45
41	MP1A	Z	0	45
42	MP1A	Mx	.000956	45
43	MP1B	X	-3.482	21
44	MP1B	Z	0	21
45	MP1B	Mx	-.001	21
46	MP1B	X	-3.482	45
47	MP1B	Z	0	45
48	MP1B	Mx	-.001	45
49	MP1C	X	-3.482	21
50	MP1C	Z	0	21
51	MP1C	Mx	-.001	21
52	MP1C	X	-3.482	45
53	MP1C	Z	0	45
54	MP1C	Mx	-.001	45
55	OVP1	X	-5.12	12
56	OVP1	Z	0	12
57	OVP1	Mx	0	12
58	MP2A	X	-2.21	15
59	MP2A	Z	0	15
60	MP2A	Mx	-.002	15
61	MP2B	X	-3.022	15
62	MP2B	Z	0	15
63	MP2B	Mx	.001	15
64	MP2C	X	-3.022	15
65	MP2C	Z	0	15
66	MP2C	Mx	.001	15
67	MP3A	X	-1.997	15
68	MP3A	Z	0	15
69	MP3A	Mx	-.002	15
70	MP3B	X	-2.969	15
71	MP3B	Z	0	15
72	MP3B	Mx	.001	15
73	MP3C	X	-2.969	15
74	MP3C	Z	0	15
75	MP3C	Mx	.001	15
76	MP2A	X	-.722	52.2
77	MP2A	Z	0	52.2
78	MP2A	Mx	-.000301	52.2
79	MP2B	X	-1.328	52.2
80	MP2B	Z	0	52.2
81	MP2B	Mx	.000277	52.2
82	MP2C	X	-1.328	52.2
83	MP2C	Z	0	52.2
84	MP2C	Mx	.000277	52.2
85	MP4A	X	-8.297	6
86	MP4A	Z	0	6
87	MP4A	Mx	.005	6
88	MP4A	X	-8.297	60
89	MP4A	Z	0	60
90	MP4A	Mx	.005	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
91	MP4B	X	-11.183	6
92	MP4B	Z	0	6
93	MP4B	Mx	-.004	6
94	MP4B	X	-11.183	60
95	MP4B	Z	0	60
96	MP4B	Mx	-.004	60
97	MP4C	X	-11.183	6
98	MP4C	Z	0	6
99	MP4C	Mx	-.004	6
100	MP4C	X	-11.183	60
101	MP4C	Z	0	60
102	MP4C	Mx	-.004	60
103	OVP	X	-5.12	12
104	OVP	Z	0	12
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-2.857	6
2	MP2A	Z	-1.649	6
3	MP2A	Mx	.003	6
4	MP2A	X	-2.857	60
5	MP2A	Z	-1.649	60
6	MP2A	Mx	.003	60
7	MP2B	X	-4.996	6
8	MP2B	Z	-2.884	6
9	MP2B	Mx	-.004	6
10	MP2B	X	-4.996	60
11	MP2B	Z	-2.884	60
12	MP2B	Mx	-.004	60
13	MP2C	X	-2.857	6
14	MP2C	Z	-1.649	6
15	MP2C	Mx	-.000805	6
16	MP2C	X	-2.857	60
17	MP2C	Z	-1.649	60
18	MP2C	Mx	-.000805	60
19	MP2A	X	-5.537	6
20	MP2A	Z	-3.197	6
21	MP2A	Mx	.002	6
22	MP2A	X	-5.537	60
23	MP2A	Z	-3.197	60
24	MP2A	Mx	.002	60
25	MP2B	X	-7.406	6
26	MP2B	Z	-4.276	6
27	MP2B	Mx	.006	6
28	MP2B	X	-7.406	60
29	MP2B	Z	-4.276	60
30	MP2B	Mx	.006	60
31	MP2C	X	-5.537	6
32	MP2C	Z	-3.197	6
33	MP2C	Mx	-.006	6
34	MP2C	X	-5.537	60
35	MP2C	Z	-3.197	60
36	MP2C	Mx	-.006	60
37	MP1A	X	-1.833	21
38	MP1A	Z	-1.058	21
39	MP1A	Mx	.001	21
40	MP1A	X	-1.833	45

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
41	MP1A	Z	-1.058	45
42	MP1A	Mx	.001	45
43	MP1B	X	-3.606	21
44	MP1B	Z	-2.082	21
45	MP1B	Mx	0	21
46	MP1B	X	-3.606	45
47	MP1B	Z	-2.082	45
48	MP1B	Mx	0	45
49	MP1C	X	-1.833	21
50	MP1C	Z	-1.058	21
51	MP1C	Mx	-.001	21
52	MP1C	X	-1.833	45
53	MP1C	Z	-1.058	45
54	MP1C	Mx	-.001	45
55	OVP1	X	-4.784	12
56	OVP1	Z	-2.762	12
57	OVP1	Mx	0	12
58	MP2A	X	-2.148	15
59	MP2A	Z	-1.24	15
60	MP2A	Mx	-.002	15
61	MP2B	X	-2.852	15
62	MP2B	Z	-1.647	15
63	MP2B	Mx	0	15
64	MP2C	X	-2.148	15
65	MP2C	Z	-1.24	15
66	MP2C	Mx	.002	15
67	MP3A	X	-2.01	15
68	MP3A	Z	-1.161	15
69	MP3A	Mx	-.002	15
70	MP3B	X	-2.852	15
71	MP3B	Z	-1.647	15
72	MP3B	Mx	0	15
73	MP3C	X	-2.01	15
74	MP3C	Z	-1.161	15
75	MP3C	Mx	.002	15
76	MP2A	X	-.8	52.2
77	MP2A	Z	-.462	52.2
78	MP2A	Mx	-.000333	52.2
79	MP2B	X	-1.325	52.2
80	MP2B	Z	-.765	52.2
81	MP2B	Mx	0	52.2
82	MP2C	X	-.8	52.2
83	MP2C	Z	-.462	52.2
84	MP2C	Mx	.000333	52.2
85	MP4A	X	-8.515	6
86	MP4A	Z	-4.916	6
87	MP4A	Mx	.005	6
88	MP4A	X	-8.515	60
89	MP4A	Z	-4.916	60
90	MP4A	Mx	.005	60
91	MP4B	X	-10.553	6
92	MP4B	Z	-6.093	6
93	MP4B	Mx	0	6
94	MP4B	X	-10.553	60
95	MP4B	Z	-6.093	60
96	MP4B	Mx	0	60
97	MP4C	X	-7.949	6
98	MP4C	Z	-4.589	6
99	MP4C	Mx	-.005	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
100	MP4C	X	-7.949	60
101	MP4C	Z	-4.589	60
102	MP4C	Mx	-.005	60
103	OVP	X	-4.784	12
104	OVP	Z	-2.762	12
105	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-2.473	6
2	MP2A	Z	-4.283	6
3	MP2A	Mx	.005	6
4	MP2A	X	-2.473	60
5	MP2A	Z	-4.283	60
6	MP2A	Mx	.005	60
7	MP2B	X	-2.473	6
8	MP2B	Z	-4.283	6
9	MP2B	Mx	-.001	6
10	MP2B	X	-2.473	60
11	MP2B	Z	-4.283	60
12	MP2B	Mx	-.001	60
13	MP2C	X	-1.238	6
14	MP2C	Z	-2.144	6
15	MP2C	Mx	-.002	6
16	MP2C	X	-1.238	60
17	MP2C	Z	-2.144	60
18	MP2C	Mx	-.002	60
19	MP2A	X	-3.916	6
20	MP2A	Z	-6.783	6
21	MP2A	Mx	-.002	6
22	MP2A	X	-3.916	60
23	MP2A	Z	-6.783	60
24	MP2A	Mx	-.002	60
25	MP2B	X	-3.916	6
26	MP2B	Z	-6.783	6
27	MP2B	Mx	.007	6
28	MP2B	X	-3.916	60
29	MP2B	Z	-6.783	60
30	MP2B	Mx	.007	60
31	MP2C	X	-2.837	6
32	MP2C	Z	-4.914	6
33	MP2C	Mx	-.004	6
34	MP2C	X	-2.837	60
35	MP2C	Z	-4.914	60
36	MP2C	Mx	-.004	60
37	MP1A	X	-1.741	21
38	MP1A	Z	-3.015	21
39	MP1A	Mx	.001	21
40	MP1A	X	-1.741	45
41	MP1A	Z	-3.015	45
42	MP1A	Mx	.001	45
43	MP1B	X	-1.741	21
44	MP1B	Z	-3.015	21
45	MP1B	Mx	.001	21
46	MP1B	X	-1.741	45
47	MP1B	Z	-3.015	45
48	MP1B	Mx	.001	45
49	MP1C	X	-.717	21

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
50	MP1C	Z	-1.242	21
51	MP1C	Mx	-.000956	21
52	MP1C	X	-.717	45
53	MP1C	Z	-1.242	45
54	MP1C	Mx	-.000956	45
55	OVP1	X	-3.166	12
56	OVP1	Z	-5.483	12
57	OVP1	Mx	0	12
58	MP2A	X	-1.511	15
59	MP2A	Z	-2.617	15
60	MP2A	Mx	-.001	15
61	MP2B	X	-1.511	15
62	MP2B	Z	-2.617	15
63	MP2B	Mx	-.001	15
64	MP2C	X	-1.105	15
65	MP2C	Z	-1.914	15
66	MP2C	Mx	.002	15
67	MP3A	X	-1.485	15
68	MP3A	Z	-2.571	15
69	MP3A	Mx	-.001	15
70	MP3B	X	-1.485	15
71	MP3B	Z	-2.571	15
72	MP3B	Mx	-.001	15
73	MP3C	X	-.999	15
74	MP3C	Z	-1.73	15
75	MP3C	Mx	.002	15
76	MP2A	X	-.664	52.2
77	MP2A	Z	-1.15	52.2
78	MP2A	Mx	-.000277	52.2
79	MP2B	X	-.664	52.2
80	MP2B	Z	-1.15	52.2
81	MP2B	Mx	-.000277	52.2
82	MP2C	X	-.361	52.2
83	MP2C	Z	-.626	52.2
84	MP2C	Mx	.000301	52.2
85	MP4A	X	-5.858	6
86	MP4A	Z	-10.146	6
87	MP4A	Mx	.003	6
88	MP4A	X	-5.858	60
89	MP4A	Z	-10.146	60
90	MP4A	Mx	.003	60
91	MP4B	X	-5.591	6
92	MP4B	Z	-9.685	6
93	MP4B	Mx	.004	6
94	MP4B	X	-5.591	60
95	MP4B	Z	-9.685	60
96	MP4B	Mx	.004	60
97	MP4C	X	-4.088	6
98	MP4C	Z	-7.081	6
99	MP4C	Mx	-.005	6
100	MP4C	X	-4.088	60
101	MP4C	Z	-7.081	60
102	MP4C	Mx	-.005	60
103	OVP	X	-3.166	12
104	OVP	Z	-5.483	12
105	OVP	Mx	0	12

Member Point Loads (BLC 77 : Lm1)

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

Member Point Loads (BLC 77 : Lm1) (Continued)

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

Member Point Loads (BLC 78 : Lm2)

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

Member Point Loads (BLC 79 : Lv1)

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

Member Point Loads (BLC 80 : Lv2)

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

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	Y	-.825	6
2	MP2A	My	-.00055	6
3	MP2A	Mz	-.00055	6
4	MP2A	Y	-.825	60
5	MP2A	My	-.00055	60
6	MP2A	Mz	-.00055	60
7	MP2B	Y	-.825	6
8	MP2B	My	.000751	6
9	MP2B	Mz	-.000201	6
10	MP2B	Y	-.825	60
11	MP2B	My	.000751	60
12	MP2B	Mz	-.000201	60
13	MP2C	Y	-.825	6
14	MP2C	My	-.000201	6
15	MP2C	Mz	.000751	6
16	MP2C	Y	-.825	60
17	MP2C	My	-.000201	60
18	MP2C	Mz	.000751	60
19	MP2A	Y	-1.22	6
20	MP2A	My	-.000813	6
21	MP2A	Mz	.000813	6
22	MP2A	Y	-1.22	60
23	MP2A	My	-.000813	60
24	MP2A	Mz	.000813	60
25	MP2B	Y	-1.22	6
26	MP2B	My	-.000298	6
27	MP2B	Mz	-.001	6
28	MP2B	Y	-1.22	60
29	MP2B	My	-.000298	60
30	MP2B	Mz	-.001	60
31	MP2C	Y	-1.22	6
32	MP2C	My	.001	6
33	MP2C	Mz	.000298	6
34	MP2C	Y	-1.22	60
35	MP2C	My	.001	60
36	MP2C	Mz	.000298	60
37	MP1A	Y	-1.644	21
38	MP1A	My	-.001	21
39	MP1A	Mz	0	21
40	MP1A	Y	-1.644	45
41	MP1A	My	-.001	45

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
42	MP1A	Mz	0	45
43	MP1B	Y	-1.644	21
44	MP1B	My	.000548	21
45	MP1B	Mz	-.000949	21
46	MP1B	Y	-1.644	45
47	MP1B	My	.000548	45
48	MP1B	Mz	-.000949	45
49	MP1C	Y	-1.644	21
50	MP1C	My	.000548	21
51	MP1C	Mz	.000949	21
52	MP1C	Y	-1.644	45
53	MP1C	My	.000548	45
54	MP1C	Mz	.000949	45
55	OVP1	Y	-1.208	12
56	OVP1	My	0	12
57	OVP1	Mz	0	12
58	MP2A	Y	-2.821	15
59	MP2A	My	.002	15
60	MP2A	Mz	0	15
61	MP2B	Y	-2.821	15
62	MP2B	My	-.001	15
63	MP2B	Mz	.002	15
64	MP2C	Y	-2.821	15
65	MP2C	My	-.001	15
66	MP2C	Mz	-.002	15
67	MP3A	Y	-2.655	15
68	MP3A	My	.002	15
69	MP3A	Mz	0	15
70	MP3B	Y	-2.655	15
71	MP3B	My	-.001	15
72	MP3B	Mz	.002	15
73	MP3C	Y	-2.655	15
74	MP3C	My	-.001	15
75	MP3C	Mz	-.002	15
76	MP2A	Y	-.706	52.2
77	MP2A	My	.000294	52.2
78	MP2A	Mz	0	52.2
79	MP2B	Y	-.706	52.2
80	MP2B	My	-.000147	52.2
81	MP2B	Mz	.000255	52.2
82	MP2C	Y	-.706	52.2
83	MP2C	My	-.000147	52.2
84	MP2C	Mz	-.000255	52.2
85	MP4A	Y	-.929	6
86	MP4A	My	-.00061	6
87	MP4A	Mz	.000108	6
88	MP4A	Y	-.929	60
89	MP4A	My	-.00061	60
90	MP4A	Mz	.000108	60
91	MP4B	Y	-.929	6
92	MP4B	My	.00031	6
93	MP4B	Mz	-.000536	6
94	MP4B	Y	-.929	60
95	MP4B	My	.00031	60
96	MP4B	Mz	-.000536	60
97	MP4C	Y	-.929	6
98	MP4C	My	.00031	6
99	MP4C	Mz	.000536	6
100	MP4C	Y	-.929	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
101	MP4C	My	.00031	60
102	MP4C	Mz	.000536	60
103	OVP	Y	-1.208	12
104	OVP	My	0	12
105	OVP	Mz	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	Z	-2.063	6
2	MP2A	Mx	.001	6
3	MP2A	Z	-2.063	60
4	MP2A	Mx	.001	60
5	MP2B	Z	-2.063	6
6	MP2B	Mx	.000503	6
7	MP2B	Z	-2.063	60
8	MP2B	Mx	.000503	60
9	MP2C	Z	-2.063	6
10	MP2C	Mx	-.002	6
11	MP2C	Z	-2.063	60
12	MP2C	Mx	-.002	60
13	MP2A	Z	-3.049	6
14	MP2A	Mx	-.002	6
15	MP2A	Z	-3.049	60
16	MP2A	Mx	-.002	60
17	MP2B	Z	-3.049	6
18	MP2B	Mx	.003	6
19	MP2B	Z	-3.049	60
20	MP2B	Mx	.003	60
21	MP2C	Z	-3.049	6
22	MP2C	Mx	-.000744	6
23	MP2C	Z	-3.049	60
24	MP2C	Mx	-.000744	60
25	MP1A	Z	-4.111	21
26	MP1A	Mx	0	21
27	MP1A	Z	-4.111	45
28	MP1A	Mx	0	45
29	MP1B	Z	-4.111	21
30	MP1B	Mx	.002	21
31	MP1B	Z	-4.111	45
32	MP1B	Mx	.002	45
33	MP1C	Z	-4.111	21
34	MP1C	Mx	-.002	21
35	MP1C	Z	-4.111	45
36	MP1C	Mx	-.002	45
37	OVP1	Z	-3.021	12
38	OVP1	Mx	0	12
39	MP2A	Z	-7.052	15
40	MP2A	Mx	0	15
41	MP2B	Z	-7.052	15
42	MP2B	Mx	-.005	15
43	MP2C	Z	-7.052	15
44	MP2C	Mx	.005	15
45	MP3A	Z	-6.636	15
46	MP3A	Mx	0	15
47	MP3B	Z	-6.636	15
48	MP3B	Mx	-.005	15
49	MP3C	Z	-6.636	15
50	MP3C	Mx	.005	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
51	MP2A	Z	-1.765	52.2
52	MP2A	Mx	0	52.2
53	MP2B	Z	-1.765	52.2
54	MP2B	Mx	-.000637	52.2
55	MP2C	Z	-1.765	52.2
56	MP2C	Mx	.000637	52.2
57	MP4A	Z	-2.322	6
58	MP4A	Mx	-.000269	6
59	MP4A	Z	-2.322	60
60	MP4A	Mx	-.000269	60
61	MP4B	Z	-2.322	6
62	MP4B	Mx	.001	6
63	MP4B	Z	-2.322	60
64	MP4B	Mx	.001	60
65	MP4C	Z	-2.322	6
66	MP4C	Mx	-.001	6
67	MP4C	Z	-2.322	60
68	MP4C	Mx	-.001	60
69	OVP	Z	-3.021	12
70	OVP	Mx	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	2.063	6
2	MP2A	Mx	-.001	6
3	MP2A	X	2.063	60
4	MP2A	Mx	-.001	60
5	MP2B	X	2.063	6
6	MP2B	Mx	.002	6
7	MP2B	X	2.063	60
8	MP2B	Mx	.002	60
9	MP2C	X	2.063	6
10	MP2C	Mx	-.000503	6
11	MP2C	X	2.063	60
12	MP2C	Mx	-.000503	60
13	MP2A	X	3.049	6
14	MP2A	Mx	-.002	6
15	MP2A	X	3.049	60
16	MP2A	Mx	-.002	60
17	MP2B	X	3.049	6
18	MP2B	Mx	-.000744	6
19	MP2B	X	3.049	60
20	MP2B	Mx	-.000744	60
21	MP2C	X	3.049	6
22	MP2C	Mx	.003	6
23	MP2C	X	3.049	60
24	MP2C	Mx	.003	60
25	MP1A	X	4.111	21
26	MP1A	Mx	-.003	21
27	MP1A	X	4.111	45
28	MP1A	Mx	-.003	45
29	MP1B	X	4.111	21
30	MP1B	Mx	.001	21
31	MP1B	X	4.111	45
32	MP1B	Mx	.001	45
33	MP1C	X	4.111	21
34	MP1C	Mx	.001	21
35	MP1C	X	4.111	45

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
36	MP1C	Mx	.001	45
37	OVP1	X	3.021	12
38	OVP1	Mx	0	12
39	MP2A	X	7.052	15
40	MP2A	Mx	.006	15
41	MP2B	X	7.052	15
42	MP2B	Mx	-.003	15
43	MP2C	X	7.052	15
44	MP2C	Mx	-.003	15
45	MP3A	X	6.636	15
46	MP3A	Mx	.006	15
47	MP3B	X	6.636	15
48	MP3B	Mx	-.003	15
49	MP3C	X	6.636	15
50	MP3C	Mx	-.003	15
51	MP2A	X	1.765	52.2
52	MP2A	Mx	.000736	52.2
53	MP2B	X	1.765	52.2
54	MP2B	Mx	-.000368	52.2
55	MP2C	X	1.765	52.2
56	MP2C	Mx	-.000368	52.2
57	MP4A	X	2.322	6
58	MP4A	Mx	-.002	6
59	MP4A	X	2.322	60
60	MP4A	Mx	-.002	60
61	MP4B	X	2.322	6
62	MP4B	Mx	.000774	6
63	MP4B	X	2.322	60
64	MP4B	Mx	.000774	60
65	MP4C	X	2.322	6
66	MP4C	Mx	.000774	6
67	MP4C	X	2.322	60
68	MP4C	Mx	.000774	60
69	OVP	X	3.021	12
70	OVP	Mx	0	12

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	Y	-15.016	-15.016	0	%100
2	M74	Y	-15.016	-15.016	0	%100
3	M75	Y	-15.016	-15.016	0	%100
4	M76	Y	-15.783	-15.783	0	%100
5	M77	Y	-15.783	-15.783	0	%100
6	M78	Y	-11.203	-11.203	0	%100
7	M79	Y	-11.203	-11.203	0	%100
8	M84	Y	-25.07	-25.07	0	%100
9	M85	Y	-15.783	-15.783	0	%100
10	M86	Y	-15.783	-15.783	0	%100
11	M87	Y	-11.203	-11.203	0	%100
12	M88	Y	-11.203	-11.203	0	%100
13	M93	Y	-25.07	-25.07	0	%100
14	M94	Y	-15.783	-15.783	0	%100
15	M95	Y	-15.783	-15.783	0	%100
16	M96	Y	-11.203	-11.203	0	%100
17	M97	Y	-11.203	-11.203	0	%100
18	M102	Y	-25.07	-25.07	0	%100
19	M103	Y	-12.767	-12.767	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
20	M104	Y	-12.767	-12.767	0	%100
21	M105	Y	-12.767	-12.767	0	%100
22	M106	Y	-16.559	-16.559	0	%100
23	M107	Y	-16.559	-16.559	0	%100
24	M108	Y	-16.559	-16.559	0	%100
25	MP4A	Y	-8.785	-8.785	0	%100
26	MP3A	Y	-8.785	-8.785	0	%100
27	MP2A	Y	-8.785	-8.785	0	%100
28	MP1A	Y	-8.785	-8.785	0	%100
29	MP4C	Y	-8.785	-8.785	0	%100
30	MP3C	Y	-8.785	-8.785	0	%100
31	MP2C	Y	-8.785	-8.785	0	%100
32	MP1C	Y	-8.785	-8.785	0	%100
33	MP4B	Y	-8.785	-8.785	0	%100
34	MP3B	Y	-8.785	-8.785	0	%100
35	MP2B	Y	-8.785	-8.785	0	%100
36	MP1B	Y	-8.785	-8.785	0	%100
37	OVP1	Y	-8.785	-8.785	0	%100
38	OVP	Y	-8.785	-8.785	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	0	0	0	%100
2	M73	Z	-27.393	-27.393	0	%100
3	M74	X	0	0	0	%100
4	M74	Z	-6.848	-6.848	0	%100
5	M75	X	0	0	0	%100
6	M75	Z	-6.848	-6.848	0	%100
7	M76	X	0	0	0	%100
8	M76	Z	0	0	0	%100
9	M77	X	0	0	0	%100
10	M77	Z	-18.933	-18.933	0	%100
11	M78	X	0	0	0	%100
12	M78	Z	-11.505	-11.505	0	%100
13	M79	X	0	0	0	%100
14	M79	Z	-11.505	-11.505	0	%100
15	M84	X	0	0	0	%100
16	M84	Z	-1.644	-1.644	0	%100
17	M85	X	0	0	0	%100
18	M85	Z	-10.028	-10.028	0	%100
19	M86	X	0	0	0	%100
20	M86	Z	-4.733	-4.733	0	%100
21	M87	X	0	0	0	%100
22	M87	Z	-2.876	-2.876	0	%100
23	M88	X	0	0	0	%100
24	M88	Z	-2.876	-2.876	0	%100
25	M93	X	0	0	0	%100
26	M93	Z	-.411	-.411	0	%100
27	M94	X	0	0	0	%100
28	M94	Z	-10.028	-10.028	0	%100
29	M95	X	0	0	0	%100
30	M95	Z	-4.733	-4.733	0	%100
31	M96	X	0	0	0	%100
32	M96	Z	-2.876	-2.876	0	%100
33	M97	X	0	0	0	%100
34	M97	Z	-2.876	-2.876	0	%100
35	M102	X	0	0	0	%100
36	M102	Z	-.411	-.411	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
37	M103	X	0	0	0	%100
38	M103	Z	-16.436	-16.436	0	%100
39	M104	X	0	0	0	%100
40	M104	Z	-4.109	-4.109	0	%100
41	M105	X	0	0	0	%100
42	M105	Z	-4.109	-4.109	0	%100
43	M106	X	0	0	0	%100
44	M106	Z	-1.644	-1.644	0	%100
45	M107	X	0	0	0	%100
46	M107	Z	-.411	-.411	0	%100
47	M108	X	0	0	0	%100
48	M108	Z	-.411	-.411	0	%100
49	MP4A	X	0	0	0	%100
50	MP4A	Z	-7.807	-7.807	0	%100
51	MP3A	X	0	0	0	%100
52	MP3A	Z	-7.807	-7.807	0	%100
53	MP2A	X	0	0	0	%100
54	MP2A	Z	-7.807	-7.807	0	%100
55	MP1A	X	0	0	0	%100
56	MP1A	Z	-7.807	-7.807	0	%100
57	MP4C	X	0	0	0	%100
58	MP4C	Z	-7.807	-7.807	0	%100
59	MP3C	X	0	0	0	%100
60	MP3C	Z	-7.807	-7.807	0	%100
61	MP2C	X	0	0	0	%100
62	MP2C	Z	-7.807	-7.807	0	%100
63	MP1C	X	0	0	0	%100
64	MP1C	Z	-7.807	-7.807	0	%100
65	MP4B	X	0	0	0	%100
66	MP4B	Z	-7.807	-7.807	0	%100
67	MP3B	X	0	0	0	%100
68	MP3B	Z	-7.807	-7.807	0	%100
69	MP2B	X	0	0	0	%100
70	MP2B	Z	-7.807	-7.807	0	%100
71	MP1B	X	0	0	0	%100
72	MP1B	Z	-7.807	-7.807	0	%100
73	OVP1	X	0	0	0	%100
74	OVP1	Z	-6.384	-6.384	0	%100
75	OVP	X	0	0	0	%100
76	OVP	Z	-6.384	-6.384	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	10.272	10.272	0	%100
2	M73	Z	-17.792	-17.792	0	%100
3	M74	X	10.272	10.272	0	%100
4	M74	Z	-17.792	-17.792	0	%100
5	M75	X	0	0	0	%100
6	M75	Z	0	0	0	%100
7	M76	X	1.671	1.671	0	%100
8	M76	Z	-2.895	-2.895	0	%100
9	M77	X	7.1	7.1	0	%100
10	M77	Z	-12.298	-12.298	0	%100
11	M78	X	4.314	4.314	0	%100
12	M78	Z	-7.473	-7.473	0	%100
13	M79	X	4.314	4.314	0	%100
14	M79	Z	-7.473	-7.473	0	%100
15	M84	X	.616	.616	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
16	M84	Z	-1.068	-1.068	0	%100
17	M85	X	1.671	1.671	0	%100
18	M85	Z	-2.895	-2.895	0	%100
19	M86	X	7.1	7.1	0	%100
20	M86	Z	-12.298	-12.298	0	%100
21	M87	X	4.314	4.314	0	%100
22	M87	Z	-7.473	-7.473	0	%100
23	M88	X	4.314	4.314	0	%100
24	M88	Z	-7.473	-7.473	0	%100
25	M93	X	.616	.616	0	%100
26	M93	Z	-1.068	-1.068	0	%100
27	M94	X	6.685	6.685	0	%100
28	M94	Z	-11.579	-11.579	0	%100
29	M95	X	0	0	0	%100
30	M95	Z	0	0	0	%100
31	M96	X	0	0	0	%100
32	M96	Z	0	0	0	%100
33	M97	X	0	0	0	%100
34	M97	Z	0	0	0	%100
35	M102	X	0	0	0	%100
36	M102	Z	0	0	0	%100
37	M103	X	6.163	6.163	0	%100
38	M103	Z	-10.675	-10.675	0	%100
39	M104	X	6.163	6.163	0	%100
40	M104	Z	-10.675	-10.675	0	%100
41	M105	X	0	0	0	%100
42	M105	Z	0	0	0	%100
43	M106	X	.616	.616	0	%100
44	M106	Z	-1.068	-1.068	0	%100
45	M107	X	.616	.616	0	%100
46	M107	Z	-1.068	-1.068	0	%100
47	M108	X	0	0	0	%100
48	M108	Z	0	0	0	%100
49	MP4A	X	3.903	3.903	0	%100
50	MP4A	Z	-6.761	-6.761	0	%100
51	MP3A	X	3.903	3.903	0	%100
52	MP3A	Z	-6.761	-6.761	0	%100
53	MP2A	X	3.903	3.903	0	%100
54	MP2A	Z	-6.761	-6.761	0	%100
55	MP1A	X	3.903	3.903	0	%100
56	MP1A	Z	-6.761	-6.761	0	%100
57	MP4C	X	3.903	3.903	0	%100
58	MP4C	Z	-6.761	-6.761	0	%100
59	MP3C	X	3.903	3.903	0	%100
60	MP3C	Z	-6.761	-6.761	0	%100
61	MP2C	X	3.903	3.903	0	%100
62	MP2C	Z	-6.761	-6.761	0	%100
63	MP1C	X	3.903	3.903	0	%100
64	MP1C	Z	-6.761	-6.761	0	%100
65	MP4B	X	3.903	3.903	0	%100
66	MP4B	Z	-6.761	-6.761	0	%100
67	MP3B	X	3.903	3.903	0	%100
68	MP3B	Z	-6.761	-6.761	0	%100
69	MP2B	X	3.903	3.903	0	%100
70	MP2B	Z	-6.761	-6.761	0	%100
71	MP1B	X	3.903	3.903	0	%100
72	MP1B	Z	-6.761	-6.761	0	%100
73	OVP1	X	3.192	3.192	0	%100
74	OVP1	Z	-5.529	-5.529	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
75	OVP	X	3.192	3.192	0	%100
76	OVP	Z	-5.529	-5.529	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	5.931	5.931	0	%100
2	M73	Z	-3.424	-3.424	0	%100
3	M74	X	23.723	23.723	0	%100
4	M74	Z	-13.696	-13.696	0	%100
5	M75	X	5.931	5.931	0	%100
6	M75	Z	-3.424	-3.424	0	%100
7	M76	X	8.685	8.685	0	%100
8	M76	Z	-5.014	-5.014	0	%100
9	M77	X	4.099	4.099	0	%100
10	M77	Z	-2.367	-2.367	0	%100
11	M78	X	2.491	2.491	0	%100
12	M78	Z	-1.438	-1.438	0	%100
13	M79	X	2.491	2.491	0	%100
14	M79	Z	-1.438	-1.438	0	%100
15	M84	X	.356	.356	0	%100
16	M84	Z	-.205	-.205	0	%100
17	M85	X	0	0	0	%100
18	M85	Z	0	0	0	%100
19	M86	X	16.397	16.397	0	%100
20	M86	Z	-9.467	-9.467	0	%100
21	M87	X	9.964	9.964	0	%100
22	M87	Z	-5.752	-5.752	0	%100
23	M88	X	9.964	9.964	0	%100
24	M88	Z	-5.752	-5.752	0	%100
25	M93	X	1.423	1.423	0	%100
26	M93	Z	-.822	-.822	0	%100
27	M94	X	8.685	8.685	0	%100
28	M94	Z	-5.014	-5.014	0	%100
29	M95	X	4.099	4.099	0	%100
30	M95	Z	-2.367	-2.367	0	%100
31	M96	X	2.491	2.491	0	%100
32	M96	Z	-1.438	-1.438	0	%100
33	M97	X	2.491	2.491	0	%100
34	M97	Z	-1.438	-1.438	0	%100
35	M102	X	.356	.356	0	%100
36	M102	Z	-.205	-.205	0	%100
37	M103	X	3.558	3.558	0	%100
38	M103	Z	-2.054	-2.054	0	%100
39	M104	X	14.234	14.234	0	%100
40	M104	Z	-8.218	-8.218	0	%100
41	M105	X	3.558	3.558	0	%100
42	M105	Z	-2.054	-2.054	0	%100
43	M106	X	.356	.356	0	%100
44	M106	Z	-.205	-.205	0	%100
45	M107	X	1.423	1.423	0	%100
46	M107	Z	-.822	-.822	0	%100
47	M108	X	.356	.356	0	%100
48	M108	Z	-.205	-.205	0	%100
49	MP4A	X	6.761	6.761	0	%100
50	MP4A	Z	-3.903	-3.903	0	%100
51	MP3A	X	6.761	6.761	0	%100
52	MP3A	Z	-3.903	-3.903	0	%100
53	MP2A	X	6.761	6.761	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
54	MP2A	Z	-3.903	-3.903	0	%100
55	MP1A	X	6.761	6.761	0	%100
56	MP1A	Z	-3.903	-3.903	0	%100
57	MP4C	X	6.761	6.761	0	%100
58	MP4C	Z	-3.903	-3.903	0	%100
59	MP3C	X	6.761	6.761	0	%100
60	MP3C	Z	-3.903	-3.903	0	%100
61	MP2C	X	6.761	6.761	0	%100
62	MP2C	Z	-3.903	-3.903	0	%100
63	MP1C	X	6.761	6.761	0	%100
64	MP1C	Z	-3.903	-3.903	0	%100
65	MP4B	X	6.761	6.761	0	%100
66	MP4B	Z	-3.903	-3.903	0	%100
67	MP3B	X	6.761	6.761	0	%100
68	MP3B	Z	-3.903	-3.903	0	%100
69	MP2B	X	6.761	6.761	0	%100
70	MP2B	Z	-3.903	-3.903	0	%100
71	MP1B	X	6.761	6.761	0	%100
72	MP1B	Z	-3.903	-3.903	0	%100
73	OVP1	X	5.529	5.529	0	%100
74	OVP1	Z	-3.192	-3.192	0	%100
75	OVP	X	5.529	5.529	0	%100
76	OVP	Z	-3.192	-3.192	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	0	0	0	%100
2	M73	Z	0	0	0	%100
3	M74	X	20.544	20.544	0	%100
4	M74	Z	0	0	0	%100
5	M75	X	20.544	20.544	0	%100
6	M75	Z	0	0	0	%100
7	M76	X	13.371	13.371	0	%100
8	M76	Z	0	0	0	%100
9	M77	X	0	0	0	%100
10	M77	Z	0	0	0	%100
11	M78	X	0	0	0	%100
12	M78	Z	0	0	0	%100
13	M79	X	0	0	0	%100
14	M79	Z	0	0	0	%100
15	M84	X	0	0	0	%100
16	M84	Z	0	0	0	%100
17	M85	X	3.343	3.343	0	%100
18	M85	Z	0	0	0	%100
19	M86	X	14.2	14.2	0	%100
20	M86	Z	0	0	0	%100
21	M87	X	8.629	8.629	0	%100
22	M87	Z	0	0	0	%100
23	M88	X	8.629	8.629	0	%100
24	M88	Z	0	0	0	%100
25	M93	X	1.233	1.233	0	%100
26	M93	Z	0	0	0	%100
27	M94	X	3.343	3.343	0	%100
28	M94	Z	0	0	0	%100
29	M95	X	14.2	14.2	0	%100
30	M95	Z	0	0	0	%100
31	M96	X	8.629	8.629	0	%100
32	M96	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
33	M97	X	8.629	8.629	0	%100
34	M97	Z	0	0	0	%100
35	M102	X	1.233	1.233	0	%100
36	M102	Z	0	0	0	%100
37	M103	X	0	0	0	%100
38	M103	Z	0	0	0	%100
39	M104	X	12.327	12.327	0	%100
40	M104	Z	0	0	0	%100
41	M105	X	12.327	12.327	0	%100
42	M105	Z	0	0	0	%100
43	M106	X	0	0	0	%100
44	M106	Z	0	0	0	%100
45	M107	X	1.233	1.233	0	%100
46	M107	Z	0	0	0	%100
47	M108	X	1.233	1.233	0	%100
48	M108	Z	0	0	0	%100
49	MP4A	X	7.807	7.807	0	%100
50	MP4A	Z	0	0	0	%100
51	MP3A	X	7.807	7.807	0	%100
52	MP3A	Z	0	0	0	%100
53	MP2A	X	7.807	7.807	0	%100
54	MP2A	Z	0	0	0	%100
55	MP1A	X	7.807	7.807	0	%100
56	MP1A	Z	0	0	0	%100
57	MP4C	X	7.807	7.807	0	%100
58	MP4C	Z	0	0	0	%100
59	MP3C	X	7.807	7.807	0	%100
60	MP3C	Z	0	0	0	%100
61	MP2C	X	7.807	7.807	0	%100
62	MP2C	Z	0	0	0	%100
63	MP1C	X	7.807	7.807	0	%100
64	MP1C	Z	0	0	0	%100
65	MP4B	X	7.807	7.807	0	%100
66	MP4B	Z	0	0	0	%100
67	MP3B	X	7.807	7.807	0	%100
68	MP3B	Z	0	0	0	%100
69	MP2B	X	7.807	7.807	0	%100
70	MP2B	Z	0	0	0	%100
71	MP1B	X	7.807	7.807	0	%100
72	MP1B	Z	0	0	0	%100
73	OVP1	X	6.384	6.384	0	%100
74	OVP1	Z	0	0	0	%100
75	OVP	X	6.384	6.384	0	%100
76	OVP	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	5.931	5.931	0	%100
2	M73	Z	3.424	3.424	0	%100
3	M74	X	5.931	5.931	0	%100
4	M74	Z	3.424	3.424	0	%100
5	M75	X	23.723	23.723	0	%100
6	M75	Z	13.696	13.696	0	%100
7	M76	X	8.685	8.685	0	%100
8	M76	Z	5.014	5.014	0	%100
9	M77	X	4.099	4.099	0	%100
10	M77	Z	2.367	2.367	0	%100
11	M78	X	2.491	2.491	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
12	M78	Z	1.438	1.438	0	%100
13	M79	X	2.491	2.491	0	%100
14	M79	Z	1.438	1.438	0	%100
15	M84	X	.356	.356	0	%100
16	M84	Z	.205	.205	0	%100
17	M85	X	8.685	8.685	0	%100
18	M85	Z	5.014	5.014	0	%100
19	M86	X	4.099	4.099	0	%100
20	M86	Z	2.367	2.367	0	%100
21	M87	X	2.491	2.491	0	%100
22	M87	Z	1.438	1.438	0	%100
23	M88	X	2.491	2.491	0	%100
24	M88	Z	1.438	1.438	0	%100
25	M93	X	.356	.356	0	%100
26	M93	Z	.205	.205	0	%100
27	M94	X	0	0	0	%100
28	M94	Z	0	0	0	%100
29	M95	X	16.397	16.397	0	%100
30	M95	Z	9.467	9.467	0	%100
31	M96	X	9.964	9.964	0	%100
32	M96	Z	5.752	5.752	0	%100
33	M97	X	9.964	9.964	0	%100
34	M97	Z	5.752	5.752	0	%100
35	M102	X	1.423	1.423	0	%100
36	M102	Z	.822	.822	0	%100
37	M103	X	3.558	3.558	0	%100
38	M103	Z	2.054	2.054	0	%100
39	M104	X	3.558	3.558	0	%100
40	M104	Z	2.054	2.054	0	%100
41	M105	X	14.234	14.234	0	%100
42	M105	Z	8.218	8.218	0	%100
43	M106	X	.356	.356	0	%100
44	M106	Z	.205	.205	0	%100
45	M107	X	.356	.356	0	%100
46	M107	Z	.205	.205	0	%100
47	M108	X	1.423	1.423	0	%100
48	M108	Z	.822	.822	0	%100
49	MP4A	X	6.761	6.761	0	%100
50	MP4A	Z	3.903	3.903	0	%100
51	MP3A	X	6.761	6.761	0	%100
52	MP3A	Z	3.903	3.903	0	%100
53	MP2A	X	6.761	6.761	0	%100
54	MP2A	Z	3.903	3.903	0	%100
55	MP1A	X	6.761	6.761	0	%100
56	MP1A	Z	3.903	3.903	0	%100
57	MP4C	X	6.761	6.761	0	%100
58	MP4C	Z	3.903	3.903	0	%100
59	MP3C	X	6.761	6.761	0	%100
60	MP3C	Z	3.903	3.903	0	%100
61	MP2C	X	6.761	6.761	0	%100
62	MP2C	Z	3.903	3.903	0	%100
63	MP1C	X	6.761	6.761	0	%100
64	MP1C	Z	3.903	3.903	0	%100
65	MP4B	X	6.761	6.761	0	%100
66	MP4B	Z	3.903	3.903	0	%100
67	MP3B	X	6.761	6.761	0	%100
68	MP3B	Z	3.903	3.903	0	%100
69	MP2B	X	6.761	6.761	0	%100
70	MP2B	Z	3.903	3.903	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
71	MP1B	X	6.761	6.761	0	%100
72	MP1B	Z	3.903	3.903	0	%100
73	OVP1	X	5.529	5.529	0	%100
74	OVP1	Z	3.192	3.192	0	%100
75	OVP	X	5.529	5.529	0	%100
76	OVP	Z	3.192	3.192	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	10.272	10.272	0	%100
2	M73	Z	17.792	17.792	0	%100
3	M74	X	0	0	0	%100
4	M74	Z	0	0	0	%100
5	M75	X	10.272	10.272	0	%100
6	M75	Z	17.792	17.792	0	%100
7	M76	X	1.671	1.671	0	%100
8	M76	Z	2.895	2.895	0	%100
9	M77	X	7.1	7.1	0	%100
10	M77	Z	12.298	12.298	0	%100
11	M78	X	4.314	4.314	0	%100
12	M78	Z	7.473	7.473	0	%100
13	M79	X	4.314	4.314	0	%100
14	M79	Z	7.473	7.473	0	%100
15	M84	X	.616	.616	0	%100
16	M84	Z	1.068	1.068	0	%100
17	M85	X	6.685	6.685	0	%100
18	M85	Z	11.579	11.579	0	%100
19	M86	X	0	0	0	%100
20	M86	Z	0	0	0	%100
21	M87	X	0	0	0	%100
22	M87	Z	0	0	0	%100
23	M88	X	0	0	0	%100
24	M88	Z	0	0	0	%100
25	M93	X	0	0	0	%100
26	M93	Z	0	0	0	%100
27	M94	X	1.671	1.671	0	%100
28	M94	Z	2.895	2.895	0	%100
29	M95	X	7.1	7.1	0	%100
30	M95	Z	12.298	12.298	0	%100
31	M96	X	4.314	4.314	0	%100
32	M96	Z	7.473	7.473	0	%100
33	M97	X	4.314	4.314	0	%100
34	M97	Z	7.473	7.473	0	%100
35	M102	X	.616	.616	0	%100
36	M102	Z	1.068	1.068	0	%100
37	M103	X	6.163	6.163	0	%100
38	M103	Z	10.675	10.675	0	%100
39	M104	X	0	0	0	%100
40	M104	Z	0	0	0	%100
41	M105	X	6.163	6.163	0	%100
42	M105	Z	10.675	10.675	0	%100
43	M106	X	.616	.616	0	%100
44	M106	Z	1.068	1.068	0	%100
45	M107	X	0	0	0	%100
46	M107	Z	0	0	0	%100
47	M108	X	.616	.616	0	%100
48	M108	Z	1.068	1.068	0	%100
49	MP4A	X	3.903	3.903	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
50	MP4A	Z	6.761	6.761	0	%100
51	MP3A	X	3.903	3.903	0	%100
52	MP3A	Z	6.761	6.761	0	%100
53	MP2A	X	3.903	3.903	0	%100
54	MP2A	Z	6.761	6.761	0	%100
55	MP1A	X	3.903	3.903	0	%100
56	MP1A	Z	6.761	6.761	0	%100
57	MP4C	X	3.903	3.903	0	%100
58	MP4C	Z	6.761	6.761	0	%100
59	MP3C	X	3.903	3.903	0	%100
60	MP3C	Z	6.761	6.761	0	%100
61	MP2C	X	3.903	3.903	0	%100
62	MP2C	Z	6.761	6.761	0	%100
63	MP1C	X	3.903	3.903	0	%100
64	MP1C	Z	6.761	6.761	0	%100
65	MP4B	X	3.903	3.903	0	%100
66	MP4B	Z	6.761	6.761	0	%100
67	MP3B	X	3.903	3.903	0	%100
68	MP3B	Z	6.761	6.761	0	%100
69	MP2B	X	3.903	3.903	0	%100
70	MP2B	Z	6.761	6.761	0	%100
71	MP1B	X	3.903	3.903	0	%100
72	MP1B	Z	6.761	6.761	0	%100
73	OVP1	X	3.192	3.192	0	%100
74	OVP1	Z	5.529	5.529	0	%100
75	OVP	X	3.192	3.192	0	%100
76	OVP	Z	5.529	5.529	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	0	0	0	%100
2	M73	Z	27.393	27.393	0	%100
3	M74	X	0	0	0	%100
4	M74	Z	6.848	6.848	0	%100
5	M75	X	0	0	0	%100
6	M75	Z	6.848	6.848	0	%100
7	M76	X	0	0	0	%100
8	M76	Z	0	0	0	%100
9	M77	X	0	0	0	%100
10	M77	Z	18.933	18.933	0	%100
11	M78	X	0	0	0	%100
12	M78	Z	11.505	11.505	0	%100
13	M79	X	0	0	0	%100
14	M79	Z	11.505	11.505	0	%100
15	M84	X	0	0	0	%100
16	M84	Z	1.644	1.644	0	%100
17	M85	X	0	0	0	%100
18	M85	Z	10.028	10.028	0	%100
19	M86	X	0	0	0	%100
20	M86	Z	4.733	4.733	0	%100
21	M87	X	0	0	0	%100
22	M87	Z	2.876	2.876	0	%100
23	M88	X	0	0	0	%100
24	M88	Z	2.876	2.876	0	%100
25	M93	X	0	0	0	%100
26	M93	Z	.411	.411	0	%100
27	M94	X	0	0	0	%100
28	M94	Z	10.028	10.028	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
29	M95	X	0	0	0	%100
30	M95	Z	4.733	4.733	0	%100
31	M96	X	0	0	0	%100
32	M96	Z	2.876	2.876	0	%100
33	M97	X	0	0	0	%100
34	M97	Z	2.876	2.876	0	%100
35	M102	X	0	0	0	%100
36	M102	Z	.411	.411	0	%100
37	M103	X	0	0	0	%100
38	M103	Z	16.436	16.436	0	%100
39	M104	X	0	0	0	%100
40	M104	Z	4.109	4.109	0	%100
41	M105	X	0	0	0	%100
42	M105	Z	4.109	4.109	0	%100
43	M106	X	0	0	0	%100
44	M106	Z	1.644	1.644	0	%100
45	M107	X	0	0	0	%100
46	M107	Z	.411	.411	0	%100
47	M108	X	0	0	0	%100
48	M108	Z	.411	.411	0	%100
49	MP4A	X	0	0	0	%100
50	MP4A	Z	7.807	7.807	0	%100
51	MP3A	X	0	0	0	%100
52	MP3A	Z	7.807	7.807	0	%100
53	MP2A	X	0	0	0	%100
54	MP2A	Z	7.807	7.807	0	%100
55	MP1A	X	0	0	0	%100
56	MP1A	Z	7.807	7.807	0	%100
57	MP4C	X	0	0	0	%100
58	MP4C	Z	7.807	7.807	0	%100
59	MP3C	X	0	0	0	%100
60	MP3C	Z	7.807	7.807	0	%100
61	MP2C	X	0	0	0	%100
62	MP2C	Z	7.807	7.807	0	%100
63	MP1C	X	0	0	0	%100
64	MP1C	Z	7.807	7.807	0	%100
65	MP4B	X	0	0	0	%100
66	MP4B	Z	7.807	7.807	0	%100
67	MP3B	X	0	0	0	%100
68	MP3B	Z	7.807	7.807	0	%100
69	MP2B	X	0	0	0	%100
70	MP2B	Z	7.807	7.807	0	%100
71	MP1B	X	0	0	0	%100
72	MP1B	Z	7.807	7.807	0	%100
73	OVP1	X	0	0	0	%100
74	OVP1	Z	6.384	6.384	0	%100
75	OVP	X	0	0	0	%100
76	OVP	Z	6.384	6.384	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	-10.272	-10.272	0	%100
2	M73	Z	17.792	17.792	0	%100
3	M74	X	-10.272	-10.272	0	%100
4	M74	Z	17.792	17.792	0	%100
5	M75	X	0	0	0	%100
6	M75	Z	0	0	0	%100
7	M76	X	-1.671	-1.671	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
8	M76	Z	2.895	2.895	0	%100
9	M77	X	-7.1	-7.1	0	%100
10	M77	Z	12.298	12.298	0	%100
11	M78	X	-4.314	-4.314	0	%100
12	M78	Z	7.473	7.473	0	%100
13	M79	X	-4.314	-4.314	0	%100
14	M79	Z	7.473	7.473	0	%100
15	M84	X	-.616	-.616	0	%100
16	M84	Z	1.068	1.068	0	%100
17	M85	X	-1.671	-1.671	0	%100
18	M85	Z	2.895	2.895	0	%100
19	M86	X	-7.1	-7.1	0	%100
20	M86	Z	12.298	12.298	0	%100
21	M87	X	-4.314	-4.314	0	%100
22	M87	Z	7.473	7.473	0	%100
23	M88	X	-4.314	-4.314	0	%100
24	M88	Z	7.473	7.473	0	%100
25	M93	X	-.616	-.616	0	%100
26	M93	Z	1.068	1.068	0	%100
27	M94	X	-6.685	-6.685	0	%100
28	M94	Z	11.579	11.579	0	%100
29	M95	X	0	0	0	%100
30	M95	Z	0	0	0	%100
31	M96	X	0	0	0	%100
32	M96	Z	0	0	0	%100
33	M97	X	0	0	0	%100
34	M97	Z	0	0	0	%100
35	M102	X	0	0	0	%100
36	M102	Z	0	0	0	%100
37	M103	X	-6.163	-6.163	0	%100
38	M103	Z	10.675	10.675	0	%100
39	M104	X	-6.163	-6.163	0	%100
40	M104	Z	10.675	10.675	0	%100
41	M105	X	0	0	0	%100
42	M105	Z	0	0	0	%100
43	M106	X	-.616	-.616	0	%100
44	M106	Z	1.068	1.068	0	%100
45	M107	X	-.616	-.616	0	%100
46	M107	Z	1.068	1.068	0	%100
47	M108	X	0	0	0	%100
48	M108	Z	0	0	0	%100
49	MP4A	X	-3.903	-3.903	0	%100
50	MP4A	Z	6.761	6.761	0	%100
51	MP3A	X	-3.903	-3.903	0	%100
52	MP3A	Z	6.761	6.761	0	%100
53	MP2A	X	-3.903	-3.903	0	%100
54	MP2A	Z	6.761	6.761	0	%100
55	MP1A	X	-3.903	-3.903	0	%100
56	MP1A	Z	6.761	6.761	0	%100
57	MP4C	X	-3.903	-3.903	0	%100
58	MP4C	Z	6.761	6.761	0	%100
59	MP3C	X	-3.903	-3.903	0	%100
60	MP3C	Z	6.761	6.761	0	%100
61	MP2C	X	-3.903	-3.903	0	%100
62	MP2C	Z	6.761	6.761	0	%100
63	MP1C	X	-3.903	-3.903	0	%100
64	MP1C	Z	6.761	6.761	0	%100
65	MP4B	X	-3.903	-3.903	0	%100
66	MP4B	Z	6.761	6.761	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
67	MP3B	X	-3.903	-3.903	0	%100
68	MP3B	Z	6.761	6.761	0	%100
69	MP2B	X	-3.903	-3.903	0	%100
70	MP2B	Z	6.761	6.761	0	%100
71	MP1B	X	-3.903	-3.903	0	%100
72	MP1B	Z	6.761	6.761	0	%100
73	OVP1	X	-3.192	-3.192	0	%100
74	OVP1	Z	5.529	5.529	0	%100
75	OVP	X	-3.192	-3.192	0	%100
76	OVP	Z	5.529	5.529	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	-5.931	-5.931	0	%100
2	M73	Z	3.424	3.424	0	%100
3	M74	X	-23.723	-23.723	0	%100
4	M74	Z	13.696	13.696	0	%100
5	M75	X	-5.931	-5.931	0	%100
6	M75	Z	3.424	3.424	0	%100
7	M76	X	-8.685	-8.685	0	%100
8	M76	Z	5.014	5.014	0	%100
9	M77	X	-4.099	-4.099	0	%100
10	M77	Z	2.367	2.367	0	%100
11	M78	X	-2.491	-2.491	0	%100
12	M78	Z	1.438	1.438	0	%100
13	M79	X	-2.491	-2.491	0	%100
14	M79	Z	1.438	1.438	0	%100
15	M84	X	-.356	-.356	0	%100
16	M84	Z	.205	.205	0	%100
17	M85	X	0	0	0	%100
18	M85	Z	0	0	0	%100
19	M86	X	-16.397	-16.397	0	%100
20	M86	Z	9.467	9.467	0	%100
21	M87	X	-9.964	-9.964	0	%100
22	M87	Z	5.752	5.752	0	%100
23	M88	X	-9.964	-9.964	0	%100
24	M88	Z	5.752	5.752	0	%100
25	M93	X	-1.423	-1.423	0	%100
26	M93	Z	.822	.822	0	%100
27	M94	X	-8.685	-8.685	0	%100
28	M94	Z	5.014	5.014	0	%100
29	M95	X	-4.099	-4.099	0	%100
30	M95	Z	2.367	2.367	0	%100
31	M96	X	-2.491	-2.491	0	%100
32	M96	Z	1.438	1.438	0	%100
33	M97	X	-2.491	-2.491	0	%100
34	M97	Z	1.438	1.438	0	%100
35	M102	X	-.356	-.356	0	%100
36	M102	Z	.205	.205	0	%100
37	M103	X	-3.558	-3.558	0	%100
38	M103	Z	2.054	2.054	0	%100
39	M104	X	-14.234	-14.234	0	%100
40	M104	Z	8.218	8.218	0	%100
41	M105	X	-3.558	-3.558	0	%100
42	M105	Z	2.054	2.054	0	%100
43	M106	X	-.356	-.356	0	%100
44	M106	Z	.205	.205	0	%100
45	M107	X	-1.423	-1.423	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
46	M107	Z	.822	.822	0	%100
47	M108	X	-.356	-.356	0	%100
48	M108	Z	.205	.205	0	%100
49	MP4A	X	-6.761	-6.761	0	%100
50	MP4A	Z	3.903	3.903	0	%100
51	MP3A	X	-6.761	-6.761	0	%100
52	MP3A	Z	3.903	3.903	0	%100
53	MP2A	X	-6.761	-6.761	0	%100
54	MP2A	Z	3.903	3.903	0	%100
55	MP1A	X	-6.761	-6.761	0	%100
56	MP1A	Z	3.903	3.903	0	%100
57	MP4C	X	-6.761	-6.761	0	%100
58	MP4C	Z	3.903	3.903	0	%100
59	MP3C	X	-6.761	-6.761	0	%100
60	MP3C	Z	3.903	3.903	0	%100
61	MP2C	X	-6.761	-6.761	0	%100
62	MP2C	Z	3.903	3.903	0	%100
63	MP1C	X	-6.761	-6.761	0	%100
64	MP1C	Z	3.903	3.903	0	%100
65	MP4B	X	-6.761	-6.761	0	%100
66	MP4B	Z	3.903	3.903	0	%100
67	MP3B	X	-6.761	-6.761	0	%100
68	MP3B	Z	3.903	3.903	0	%100
69	MP2B	X	-6.761	-6.761	0	%100
70	MP2B	Z	3.903	3.903	0	%100
71	MP1B	X	-6.761	-6.761	0	%100
72	MP1B	Z	3.903	3.903	0	%100
73	OVP1	X	-5.529	-5.529	0	%100
74	OVP1	Z	3.192	3.192	0	%100
75	OVP	X	-5.529	-5.529	0	%100
76	OVP	Z	3.192	3.192	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	0	0	0	%100
2	M73	Z	0	0	0	%100
3	M74	X	-20.544	-20.544	0	%100
4	M74	Z	0	0	0	%100
5	M75	X	-20.544	-20.544	0	%100
6	M75	Z	0	0	0	%100
7	M76	X	-13.371	-13.371	0	%100
8	M76	Z	0	0	0	%100
9	M77	X	0	0	0	%100
10	M77	Z	0	0	0	%100
11	M78	X	0	0	0	%100
12	M78	Z	0	0	0	%100
13	M79	X	0	0	0	%100
14	M79	Z	0	0	0	%100
15	M84	X	0	0	0	%100
16	M84	Z	0	0	0	%100
17	M85	X	-3.343	-3.343	0	%100
18	M85	Z	0	0	0	%100
19	M86	X	-14.2	-14.2	0	%100
20	M86	Z	0	0	0	%100
21	M87	X	-8.629	-8.629	0	%100
22	M87	Z	0	0	0	%100
23	M88	X	-8.629	-8.629	0	%100
24	M88	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
25	M93	X	-1.233	-1.233	0	%100
26	M93	Z	0	0	0	%100
27	M94	X	-3.343	-3.343	0	%100
28	M94	Z	0	0	0	%100
29	M95	X	-14.2	-14.2	0	%100
30	M95	Z	0	0	0	%100
31	M96	X	-8.629	-8.629	0	%100
32	M96	Z	0	0	0	%100
33	M97	X	-8.629	-8.629	0	%100
34	M97	Z	0	0	0	%100
35	M102	X	-1.233	-1.233	0	%100
36	M102	Z	0	0	0	%100
37	M103	X	0	0	0	%100
38	M103	Z	0	0	0	%100
39	M104	X	-12.327	-12.327	0	%100
40	M104	Z	0	0	0	%100
41	M105	X	-12.327	-12.327	0	%100
42	M105	Z	0	0	0	%100
43	M106	X	0	0	0	%100
44	M106	Z	0	0	0	%100
45	M107	X	-1.233	-1.233	0	%100
46	M107	Z	0	0	0	%100
47	M108	X	-1.233	-1.233	0	%100
48	M108	Z	0	0	0	%100
49	MP4A	X	-7.807	-7.807	0	%100
50	MP4A	Z	0	0	0	%100
51	MP3A	X	-7.807	-7.807	0	%100
52	MP3A	Z	0	0	0	%100
53	MP2A	X	-7.807	-7.807	0	%100
54	MP2A	Z	0	0	0	%100
55	MP1A	X	-7.807	-7.807	0	%100
56	MP1A	Z	0	0	0	%100
57	MP4C	X	-7.807	-7.807	0	%100
58	MP4C	Z	0	0	0	%100
59	MP3C	X	-7.807	-7.807	0	%100
60	MP3C	Z	0	0	0	%100
61	MP2C	X	-7.807	-7.807	0	%100
62	MP2C	Z	0	0	0	%100
63	MP1C	X	-7.807	-7.807	0	%100
64	MP1C	Z	0	0	0	%100
65	MP4B	X	-7.807	-7.807	0	%100
66	MP4B	Z	0	0	0	%100
67	MP3B	X	-7.807	-7.807	0	%100
68	MP3B	Z	0	0	0	%100
69	MP2B	X	-7.807	-7.807	0	%100
70	MP2B	Z	0	0	0	%100
71	MP1B	X	-7.807	-7.807	0	%100
72	MP1B	Z	0	0	0	%100
73	OVP1	X	-6.384	-6.384	0	%100
74	OVP1	Z	0	0	0	%100
75	OVP	X	-6.384	-6.384	0	%100
76	OVP	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	-5.931	-5.931	0	%100
2	M73	Z	-3.424	-3.424	0	%100
3	M74	X	-5.931	-5.931	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
4	M74	Z	-3.424	-3.424	0	%100
5	M75	X	-23.723	-23.723	0	%100
6	M75	Z	-13.696	-13.696	0	%100
7	M76	X	-8.685	-8.685	0	%100
8	M76	Z	-5.014	-5.014	0	%100
9	M77	X	-4.099	-4.099	0	%100
10	M77	Z	-2.367	-2.367	0	%100
11	M78	X	-2.491	-2.491	0	%100
12	M78	Z	-1.438	-1.438	0	%100
13	M79	X	-2.491	-2.491	0	%100
14	M79	Z	-1.438	-1.438	0	%100
15	M84	X	-.356	-.356	0	%100
16	M84	Z	-.205	-.205	0	%100
17	M85	X	-8.685	-8.685	0	%100
18	M85	Z	-5.014	-5.014	0	%100
19	M86	X	-4.099	-4.099	0	%100
20	M86	Z	-2.367	-2.367	0	%100
21	M87	X	-2.491	-2.491	0	%100
22	M87	Z	-1.438	-1.438	0	%100
23	M88	X	-2.491	-2.491	0	%100
24	M88	Z	-1.438	-1.438	0	%100
25	M93	X	-.356	-.356	0	%100
26	M93	Z	-.205	-.205	0	%100
27	M94	X	0	0	0	%100
28	M94	Z	0	0	0	%100
29	M95	X	-16.397	-16.397	0	%100
30	M95	Z	-9.467	-9.467	0	%100
31	M96	X	-9.964	-9.964	0	%100
32	M96	Z	-5.752	-5.752	0	%100
33	M97	X	-9.964	-9.964	0	%100
34	M97	Z	-5.752	-5.752	0	%100
35	M102	X	-1.423	-1.423	0	%100
36	M102	Z	-.822	-.822	0	%100
37	M103	X	-3.558	-3.558	0	%100
38	M103	Z	-2.054	-2.054	0	%100
39	M104	X	-3.558	-3.558	0	%100
40	M104	Z	-2.054	-2.054	0	%100
41	M105	X	-14.234	-14.234	0	%100
42	M105	Z	-8.218	-8.218	0	%100
43	M106	X	-.356	-.356	0	%100
44	M106	Z	-.205	-.205	0	%100
45	M107	X	-.356	-.356	0	%100
46	M107	Z	-.205	-.205	0	%100
47	M108	X	-1.423	-1.423	0	%100
48	M108	Z	-.822	-.822	0	%100
49	MP4A	X	-6.761	-6.761	0	%100
50	MP4A	Z	-3.903	-3.903	0	%100
51	MP3A	X	-6.761	-6.761	0	%100
52	MP3A	Z	-3.903	-3.903	0	%100
53	MP2A	X	-6.761	-6.761	0	%100
54	MP2A	Z	-3.903	-3.903	0	%100
55	MP1A	X	-6.761	-6.761	0	%100
56	MP1A	Z	-3.903	-3.903	0	%100
57	MP4C	X	-6.761	-6.761	0	%100
58	MP4C	Z	-3.903	-3.903	0	%100
59	MP3C	X	-6.761	-6.761	0	%100
60	MP3C	Z	-3.903	-3.903	0	%100
61	MP2C	X	-6.761	-6.761	0	%100
62	MP2C	Z	-3.903	-3.903	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
63	MP1C	X	-6.761	-6.761	0	%100
64	MP1C	Z	-3.903	-3.903	0	%100
65	MP4B	X	-6.761	-6.761	0	%100
66	MP4B	Z	-3.903	-3.903	0	%100
67	MP3B	X	-6.761	-6.761	0	%100
68	MP3B	Z	-3.903	-3.903	0	%100
69	MP2B	X	-6.761	-6.761	0	%100
70	MP2B	Z	-3.903	-3.903	0	%100
71	MP1B	X	-6.761	-6.761	0	%100
72	MP1B	Z	-3.903	-3.903	0	%100
73	OVP1	X	-5.529	-5.529	0	%100
74	OVP1	Z	-3.192	-3.192	0	%100
75	OVP	X	-5.529	-5.529	0	%100
76	OVP	Z	-3.192	-3.192	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	-10.272	-10.272	0	%100
2	M73	Z	-17.792	-17.792	0	%100
3	M74	X	0	0	0	%100
4	M74	Z	0	0	0	%100
5	M75	X	-10.272	-10.272	0	%100
6	M75	Z	-17.792	-17.792	0	%100
7	M76	X	-1.671	-1.671	0	%100
8	M76	Z	-2.895	-2.895	0	%100
9	M77	X	-7.1	-7.1	0	%100
10	M77	Z	-12.298	-12.298	0	%100
11	M78	X	-4.314	-4.314	0	%100
12	M78	Z	-7.473	-7.473	0	%100
13	M79	X	-4.314	-4.314	0	%100
14	M79	Z	-7.473	-7.473	0	%100
15	M84	X	-.616	-.616	0	%100
16	M84	Z	-1.068	-1.068	0	%100
17	M85	X	-6.685	-6.685	0	%100
18	M85	Z	-11.579	-11.579	0	%100
19	M86	X	0	0	0	%100
20	M86	Z	0	0	0	%100
21	M87	X	0	0	0	%100
22	M87	Z	0	0	0	%100
23	M88	X	0	0	0	%100
24	M88	Z	0	0	0	%100
25	M93	X	0	0	0	%100
26	M93	Z	0	0	0	%100
27	M94	X	-1.671	-1.671	0	%100
28	M94	Z	-2.895	-2.895	0	%100
29	M95	X	-7.1	-7.1	0	%100
30	M95	Z	-12.298	-12.298	0	%100
31	M96	X	-4.314	-4.314	0	%100
32	M96	Z	-7.473	-7.473	0	%100
33	M97	X	-4.314	-4.314	0	%100
34	M97	Z	-7.473	-7.473	0	%100
35	M102	X	-.616	-.616	0	%100
36	M102	Z	-1.068	-1.068	0	%100
37	M103	X	-6.163	-6.163	0	%100
38	M103	Z	-10.675	-10.675	0	%100
39	M104	X	0	0	0	%100
40	M104	Z	0	0	0	%100
41	M105	X	-6.163	-6.163	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
42	M105	Z	-10.675	-10.675	0	%100
43	M106	X	-.616	-.616	0	%100
44	M106	Z	-1.068	-1.068	0	%100
45	M107	X	0	0	0	%100
46	M107	Z	0	0	0	%100
47	M108	X	-.616	-.616	0	%100
48	M108	Z	-1.068	-1.068	0	%100
49	MP4A	X	-3.903	-3.903	0	%100
50	MP4A	Z	-6.761	-6.761	0	%100
51	MP3A	X	-3.903	-3.903	0	%100
52	MP3A	Z	-6.761	-6.761	0	%100
53	MP2A	X	-3.903	-3.903	0	%100
54	MP2A	Z	-6.761	-6.761	0	%100
55	MP1A	X	-3.903	-3.903	0	%100
56	MP1A	Z	-6.761	-6.761	0	%100
57	MP4C	X	-3.903	-3.903	0	%100
58	MP4C	Z	-6.761	-6.761	0	%100
59	MP3C	X	-3.903	-3.903	0	%100
60	MP3C	Z	-6.761	-6.761	0	%100
61	MP2C	X	-3.903	-3.903	0	%100
62	MP2C	Z	-6.761	-6.761	0	%100
63	MP1C	X	-3.903	-3.903	0	%100
64	MP1C	Z	-6.761	-6.761	0	%100
65	MP4B	X	-3.903	-3.903	0	%100
66	MP4B	Z	-6.761	-6.761	0	%100
67	MP3B	X	-3.903	-3.903	0	%100
68	MP3B	Z	-6.761	-6.761	0	%100
69	MP2B	X	-3.903	-3.903	0	%100
70	MP2B	Z	-6.761	-6.761	0	%100
71	MP1B	X	-3.903	-3.903	0	%100
72	MP1B	Z	-6.761	-6.761	0	%100
73	OVP1	X	-3.192	-3.192	0	%100
74	OVP1	Z	-5.529	-5.529	0	%100
75	OVP	X	-3.192	-3.192	0	%100
76	OVP	Z	-5.529	-5.529	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	0	0	0	%100
2	M73	Z	-6.978	-6.978	0	%100
3	M74	X	0	0	0	%100
4	M74	Z	-1.745	-1.745	0	%100
5	M75	X	0	0	0	%100
6	M75	Z	-1.745	-1.745	0	%100
7	M76	X	0	0	0	%100
8	M76	Z	0	0	0	%100
9	M77	X	0	0	0	%100
10	M77	Z	-5.242	-5.242	0	%100
11	M78	X	0	0	0	%100
12	M78	Z	-3.267	-3.267	0	%100
13	M79	X	0	0	0	%100
14	M79	Z	-3.267	-3.267	0	%100
15	M84	X	0	0	0	%100
16	M84	Z	-1.561	-1.561	0	%100
17	M85	X	0	0	0	%100
18	M85	Z	-3.227	-3.227	0	%100
19	M86	X	0	0	0	%100
20	M86	Z	-1.31	-1.31	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
21	M87	X	0	0	0	%100
22	M87	Z	-.817	-.817	0	%100
23	M88	X	0	0	0	%100
24	M88	Z	-.817	-.817	0	%100
25	M93	X	0	0	0	%100
26	M93	Z	-.39	-.39	0	%100
27	M94	X	0	0	0	%100
28	M94	Z	-3.227	-3.227	0	%100
29	M95	X	0	0	0	%100
30	M95	Z	-1.31	-1.31	0	%100
31	M96	X	0	0	0	%100
32	M96	Z	-.817	-.817	0	%100
33	M97	X	0	0	0	%100
34	M97	Z	-.817	-.817	0	%100
35	M102	X	0	0	0	%100
36	M102	Z	-.39	-.39	0	%100
37	M103	X	0	0	0	%100
38	M103	Z	-5.011	-5.011	0	%100
39	M104	X	0	0	0	%100
40	M104	Z	-1.253	-1.253	0	%100
41	M105	X	0	0	0	%100
42	M105	Z	-1.253	-1.253	0	%100
43	M106	X	0	0	0	%100
44	M106	Z	-1.539	-1.539	0	%100
45	M107	X	0	0	0	%100
46	M107	Z	-.385	-.385	0	%100
47	M108	X	0	0	0	%100
48	M108	Z	-.385	-.385	0	%100
49	MP4A	X	0	0	0	%100
50	MP4A	Z	-3.426	-3.426	0	%100
51	MP3A	X	0	0	0	%100
52	MP3A	Z	-3.426	-3.426	0	%100
53	MP2A	X	0	0	0	%100
54	MP2A	Z	-3.426	-3.426	0	%100
55	MP1A	X	0	0	0	%100
56	MP1A	Z	-3.426	-3.426	0	%100
57	MP4C	X	0	0	0	%100
58	MP4C	Z	-3.426	-3.426	0	%100
59	MP3C	X	0	0	0	%100
60	MP3C	Z	-3.426	-3.426	0	%100
61	MP2C	X	0	0	0	%100
62	MP2C	Z	-3.426	-3.426	0	%100
63	MP1C	X	0	0	0	%100
64	MP1C	Z	-3.426	-3.426	0	%100
65	MP4B	X	0	0	0	%100
66	MP4B	Z	-3.426	-3.426	0	%100
67	MP3B	X	0	0	0	%100
68	MP3B	Z	-3.426	-3.426	0	%100
69	MP2B	X	0	0	0	%100
70	MP2B	Z	-3.426	-3.426	0	%100
71	MP1B	X	0	0	0	%100
72	MP1B	Z	-3.426	-3.426	0	%100
73	OVP1	X	0	0	0	%100
74	OVP1	Z	-2.646	-2.646	0	%100
75	OVP	X	0	0	0	%100
76	OVP	Z	-2.646	-2.646	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	2.617	2.617	0	%100
2	M73	Z	-4.533	-4.533	0	%100
3	M74	X	2.617	2.617	0	%100
4	M74	Z	-4.533	-4.533	0	%100
5	M75	X	0	0	0	%100
6	M75	Z	0	0	0	%100
7	M76	X	.538	.538	0	%100
8	M76	Z	-.932	-.932	0	%100
9	M77	X	1.966	1.966	0	%100
10	M77	Z	-3.405	-3.405	0	%100
11	M78	X	1.225	1.225	0	%100
12	M78	Z	-2.122	-2.122	0	%100
13	M79	X	1.225	1.225	0	%100
14	M79	Z	-2.122	-2.122	0	%100
15	M84	X	.585	.585	0	%100
16	M84	Z	-1.014	-1.014	0	%100
17	M85	X	.538	.538	0	%100
18	M85	Z	-.932	-.932	0	%100
19	M86	X	1.966	1.966	0	%100
20	M86	Z	-3.405	-3.405	0	%100
21	M87	X	1.225	1.225	0	%100
22	M87	Z	-2.122	-2.122	0	%100
23	M88	X	1.225	1.225	0	%100
24	M88	Z	-2.122	-2.122	0	%100
25	M93	X	.585	.585	0	%100
26	M93	Z	-1.014	-1.014	0	%100
27	M94	X	2.151	2.151	0	%100
28	M94	Z	-3.726	-3.726	0	%100
29	M95	X	0	0	0	%100
30	M95	Z	0	0	0	%100
31	M96	X	0	0	0	%100
32	M96	Z	0	0	0	%100
33	M97	X	0	0	0	%100
34	M97	Z	0	0	0	%100
35	M102	X	0	0	0	%100
36	M102	Z	0	0	0	%100
37	M103	X	1.879	1.879	0	%100
38	M103	Z	-3.255	-3.255	0	%100
39	M104	X	1.879	1.879	0	%100
40	M104	Z	-3.255	-3.255	0	%100
41	M105	X	0	0	0	%100
42	M105	Z	0	0	0	%100
43	M106	X	.577	.577	0	%100
44	M106	Z	-1	-1	0	%100
45	M107	X	.577	.577	0	%100
46	M107	Z	-1	-1	0	%100
47	M108	X	0	0	0	%100
48	M108	Z	0	0	0	%100
49	MP4A	X	1.713	1.713	0	%100
50	MP4A	Z	-2.967	-2.967	0	%100
51	MP3A	X	1.713	1.713	0	%100
52	MP3A	Z	-2.967	-2.967	0	%100
53	MP2A	X	1.713	1.713	0	%100
54	MP2A	Z	-2.967	-2.967	0	%100
55	MP1A	X	1.713	1.713	0	%100
56	MP1A	Z	-2.967	-2.967	0	%100
57	MP4C	X	1.713	1.713	0	%100
58	MP4C	Z	-2.967	-2.967	0	%100
59	MP3C	X	1.713	1.713	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
60	MP3C	Z	-2.967	-2.967	0	%100
61	MP2C	X	1.713	1.713	0	%100
62	MP2C	Z	-2.967	-2.967	0	%100
63	MP1C	X	1.713	1.713	0	%100
64	MP1C	Z	-2.967	-2.967	0	%100
65	MP4B	X	1.713	1.713	0	%100
66	MP4B	Z	-2.967	-2.967	0	%100
67	MP3B	X	1.713	1.713	0	%100
68	MP3B	Z	-2.967	-2.967	0	%100
69	MP2B	X	1.713	1.713	0	%100
70	MP2B	Z	-2.967	-2.967	0	%100
71	MP1B	X	1.713	1.713	0	%100
72	MP1B	Z	-2.967	-2.967	0	%100
73	OVP1	X	1.323	1.323	0	%100
74	OVP1	Z	-2.291	-2.291	0	%100
75	OVP	X	1.323	1.323	0	%100
76	OVP	Z	-2.291	-2.291	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	1.511	1.511	0	%100
2	M73	Z	-.872	-.872	0	%100
3	M74	X	6.043	6.043	0	%100
4	M74	Z	-3.489	-3.489	0	%100
5	M75	X	1.511	1.511	0	%100
6	M75	Z	-.872	-.872	0	%100
7	M76	X	2.795	2.795	0	%100
8	M76	Z	-1.614	-1.614	0	%100
9	M77	X	1.135	1.135	0	%100
10	M77	Z	-.655	-.655	0	%100
11	M78	X	.707	.707	0	%100
12	M78	Z	-.408	-.408	0	%100
13	M79	X	.707	.707	0	%100
14	M79	Z	-.408	-.408	0	%100
15	M84	X	.338	.338	0	%100
16	M84	Z	-.195	-.195	0	%100
17	M85	X	0	0	0	%100
18	M85	Z	0	0	0	%100
19	M86	X	4.54	4.54	0	%100
20	M86	Z	-2.621	-2.621	0	%100
21	M87	X	2.83	2.83	0	%100
22	M87	Z	-1.634	-1.634	0	%100
23	M88	X	2.83	2.83	0	%100
24	M88	Z	-1.634	-1.634	0	%100
25	M93	X	1.352	1.352	0	%100
26	M93	Z	-.78	-.78	0	%100
27	M94	X	2.795	2.795	0	%100
28	M94	Z	-1.614	-1.614	0	%100
29	M95	X	1.135	1.135	0	%100
30	M95	Z	-.655	-.655	0	%100
31	M96	X	.707	.707	0	%100
32	M96	Z	-.408	-.408	0	%100
33	M97	X	.707	.707	0	%100
34	M97	Z	-.408	-.408	0	%100
35	M102	X	.338	.338	0	%100
36	M102	Z	-.195	-.195	0	%100
37	M103	X	1.085	1.085	0	%100
38	M103	Z	-.626	-.626	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
39	M104	X	4.34	4.34	0	%100
40	M104	Z	-2.505	-2.505	0	%100
41	M105	X	1.085	1.085	0	%100
42	M105	Z	-.626	-.626	0	%100
43	M106	X	.333	.333	0	%100
44	M106	Z	-.192	-.192	0	%100
45	M107	X	1.333	1.333	0	%100
46	M107	Z	-.77	-.77	0	%100
47	M108	X	.333	.333	0	%100
48	M108	Z	-.192	-.192	0	%100
49	MP4A	X	2.967	2.967	0	%100
50	MP4A	Z	-1.713	-1.713	0	%100
51	MP3A	X	2.967	2.967	0	%100
52	MP3A	Z	-1.713	-1.713	0	%100
53	MP2A	X	2.967	2.967	0	%100
54	MP2A	Z	-1.713	-1.713	0	%100
55	MP1A	X	2.967	2.967	0	%100
56	MP1A	Z	-1.713	-1.713	0	%100
57	MP4C	X	2.967	2.967	0	%100
58	MP4C	Z	-1.713	-1.713	0	%100
59	MP3C	X	2.967	2.967	0	%100
60	MP3C	Z	-1.713	-1.713	0	%100
61	MP2C	X	2.967	2.967	0	%100
62	MP2C	Z	-1.713	-1.713	0	%100
63	MP1C	X	2.967	2.967	0	%100
64	MP1C	Z	-1.713	-1.713	0	%100
65	MP4B	X	2.967	2.967	0	%100
66	MP4B	Z	-1.713	-1.713	0	%100
67	MP3B	X	2.967	2.967	0	%100
68	MP3B	Z	-1.713	-1.713	0	%100
69	MP2B	X	2.967	2.967	0	%100
70	MP2B	Z	-1.713	-1.713	0	%100
71	MP1B	X	2.967	2.967	0	%100
72	MP1B	Z	-1.713	-1.713	0	%100
73	OVP1	X	2.291	2.291	0	%100
74	OVP1	Z	-1.323	-1.323	0	%100
75	OVP	X	2.291	2.291	0	%100
76	OVP	Z	-1.323	-1.323	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	0	0	0	%100
2	M73	Z	0	0	0	%100
3	M74	X	5.234	5.234	0	%100
4	M74	Z	0	0	0	%100
5	M75	X	5.234	5.234	0	%100
6	M75	Z	0	0	0	%100
7	M76	X	4.303	4.303	0	%100
8	M76	Z	0	0	0	%100
9	M77	X	0	0	0	%100
10	M77	Z	0	0	0	%100
11	M78	X	0	0	0	%100
12	M78	Z	0	0	0	%100
13	M79	X	0	0	0	%100
14	M79	Z	0	0	0	%100
15	M84	X	0	0	0	%100
16	M84	Z	0	0	0	%100
17	M85	X	1.076	1.076	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
18	M85	Z	0	0	0	%100
19	M86	X	3.931	3.931	0	%100
20	M86	Z	0	0	0	%100
21	M87	X	2.45	2.45	0	%100
22	M87	Z	0	0	0	%100
23	M88	X	2.45	2.45	0	%100
24	M88	Z	0	0	0	%100
25	M93	X	1.171	1.171	0	%100
26	M93	Z	0	0	0	%100
27	M94	X	1.076	1.076	0	%100
28	M94	Z	0	0	0	%100
29	M95	X	3.931	3.931	0	%100
30	M95	Z	0	0	0	%100
31	M96	X	2.45	2.45	0	%100
32	M96	Z	0	0	0	%100
33	M97	X	2.45	2.45	0	%100
34	M97	Z	0	0	0	%100
35	M102	X	1.171	1.171	0	%100
36	M102	Z	0	0	0	%100
37	M103	X	0	0	0	%100
38	M103	Z	0	0	0	%100
39	M104	X	3.758	3.758	0	%100
40	M104	Z	0	0	0	%100
41	M105	X	3.758	3.758	0	%100
42	M105	Z	0	0	0	%100
43	M106	X	0	0	0	%100
44	M106	Z	0	0	0	%100
45	M107	X	1.155	1.155	0	%100
46	M107	Z	0	0	0	%100
47	M108	X	1.155	1.155	0	%100
48	M108	Z	0	0	0	%100
49	MP4A	X	3.426	3.426	0	%100
50	MP4A	Z	0	0	0	%100
51	MP3A	X	3.426	3.426	0	%100
52	MP3A	Z	0	0	0	%100
53	MP2A	X	3.426	3.426	0	%100
54	MP2A	Z	0	0	0	%100
55	MP1A	X	3.426	3.426	0	%100
56	MP1A	Z	0	0	0	%100
57	MP4C	X	3.426	3.426	0	%100
58	MP4C	Z	0	0	0	%100
59	MP3C	X	3.426	3.426	0	%100
60	MP3C	Z	0	0	0	%100
61	MP2C	X	3.426	3.426	0	%100
62	MP2C	Z	0	0	0	%100
63	MP1C	X	3.426	3.426	0	%100
64	MP1C	Z	0	0	0	%100
65	MP4B	X	3.426	3.426	0	%100
66	MP4B	Z	0	0	0	%100
67	MP3B	X	3.426	3.426	0	%100
68	MP3B	Z	0	0	0	%100
69	MP2B	X	3.426	3.426	0	%100
70	MP2B	Z	0	0	0	%100
71	MP1B	X	3.426	3.426	0	%100
72	MP1B	Z	0	0	0	%100
73	OVP1	X	2.646	2.646	0	%100
74	OVP1	Z	0	0	0	%100
75	OVP	X	2.646	2.646	0	%100
76	OVP	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	1.511	1.511	0	%100
2	M73	Z	.872	.872	0	%100
3	M74	X	1.511	1.511	0	%100
4	M74	Z	.872	.872	0	%100
5	M75	X	6.043	6.043	0	%100
6	M75	Z	3.489	3.489	0	%100
7	M76	X	2.795	2.795	0	%100
8	M76	Z	1.614	1.614	0	%100
9	M77	X	1.135	1.135	0	%100
10	M77	Z	.655	.655	0	%100
11	M78	X	.707	.707	0	%100
12	M78	Z	.408	.408	0	%100
13	M79	X	.707	.707	0	%100
14	M79	Z	.408	.408	0	%100
15	M84	X	.338	.338	0	%100
16	M84	Z	.195	.195	0	%100
17	M85	X	2.795	2.795	0	%100
18	M85	Z	1.614	1.614	0	%100
19	M86	X	1.135	1.135	0	%100
20	M86	Z	.655	.655	0	%100
21	M87	X	.707	.707	0	%100
22	M87	Z	.408	.408	0	%100
23	M88	X	.707	.707	0	%100
24	M88	Z	.408	.408	0	%100
25	M93	X	.338	.338	0	%100
26	M93	Z	.195	.195	0	%100
27	M94	X	0	0	0	%100
28	M94	Z	0	0	0	%100
29	M95	X	4.54	4.54	0	%100
30	M95	Z	2.621	2.621	0	%100
31	M96	X	2.83	2.83	0	%100
32	M96	Z	1.634	1.634	0	%100
33	M97	X	2.83	2.83	0	%100
34	M97	Z	1.634	1.634	0	%100
35	M102	X	1.352	1.352	0	%100
36	M102	Z	.78	.78	0	%100
37	M103	X	1.085	1.085	0	%100
38	M103	Z	.626	.626	0	%100
39	M104	X	1.085	1.085	0	%100
40	M104	Z	.626	.626	0	%100
41	M105	X	4.34	4.34	0	%100
42	M105	Z	2.505	2.505	0	%100
43	M106	X	.333	.333	0	%100
44	M106	Z	.192	.192	0	%100
45	M107	X	.333	.333	0	%100
46	M107	Z	.192	.192	0	%100
47	M108	X	1.333	1.333	0	%100
48	M108	Z	.77	.77	0	%100
49	MP4A	X	2.967	2.967	0	%100
50	MP4A	Z	1.713	1.713	0	%100
51	MP3A	X	2.967	2.967	0	%100
52	MP3A	Z	1.713	1.713	0	%100
53	MP2A	X	2.967	2.967	0	%100
54	MP2A	Z	1.713	1.713	0	%100
55	MP1A	X	2.967	2.967	0	%100
56	MP1A	Z	1.713	1.713	0	%100
57	MP4C	X	2.967	2.967	0	%100
58	MP4C	Z	1.713	1.713	0	%100
59	MP3C	X	2.967	2.967	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
60	MP3C	Z	1.713	1.713	0	%100
61	MP2C	X	2.967	2.967	0	%100
62	MP2C	Z	1.713	1.713	0	%100
63	MP1C	X	2.967	2.967	0	%100
64	MP1C	Z	1.713	1.713	0	%100
65	MP4B	X	2.967	2.967	0	%100
66	MP4B	Z	1.713	1.713	0	%100
67	MP3B	X	2.967	2.967	0	%100
68	MP3B	Z	1.713	1.713	0	%100
69	MP2B	X	2.967	2.967	0	%100
70	MP2B	Z	1.713	1.713	0	%100
71	MP1B	X	2.967	2.967	0	%100
72	MP1B	Z	1.713	1.713	0	%100
73	OVP1	X	2.291	2.291	0	%100
74	OVP1	Z	1.323	1.323	0	%100
75	OVP	X	2.291	2.291	0	%100
76	OVP	Z	1.323	1.323	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	2.617	2.617	0	%100
2	M73	Z	4.533	4.533	0	%100
3	M74	X	0	0	0	%100
4	M74	Z	0	0	0	%100
5	M75	X	2.617	2.617	0	%100
6	M75	Z	4.533	4.533	0	%100
7	M76	X	.538	.538	0	%100
8	M76	Z	.932	.932	0	%100
9	M77	X	1.966	1.966	0	%100
10	M77	Z	3.405	3.405	0	%100
11	M78	X	1.225	1.225	0	%100
12	M78	Z	2.122	2.122	0	%100
13	M79	X	1.225	1.225	0	%100
14	M79	Z	2.122	2.122	0	%100
15	M84	X	.585	.585	0	%100
16	M84	Z	1.014	1.014	0	%100
17	M85	X	2.151	2.151	0	%100
18	M85	Z	3.726	3.726	0	%100
19	M86	X	0	0	0	%100
20	M86	Z	0	0	0	%100
21	M87	X	0	0	0	%100
22	M87	Z	0	0	0	%100
23	M88	X	0	0	0	%100
24	M88	Z	0	0	0	%100
25	M93	X	0	0	0	%100
26	M93	Z	0	0	0	%100
27	M94	X	.538	.538	0	%100
28	M94	Z	.932	.932	0	%100
29	M95	X	1.966	1.966	0	%100
30	M95	Z	3.405	3.405	0	%100
31	M96	X	1.225	1.225	0	%100
32	M96	Z	2.122	2.122	0	%100
33	M97	X	1.225	1.225	0	%100
34	M97	Z	2.122	2.122	0	%100
35	M102	X	.585	.585	0	%100
36	M102	Z	1.014	1.014	0	%100
37	M103	X	1.879	1.879	0	%100
38	M103	Z	3.255	3.255	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
39	M104	X	0	0	0	%100
40	M104	Z	0	0	0	%100
41	M105	X	1.879	1.879	0	%100
42	M105	Z	3.255	3.255	0	%100
43	M106	X	.577	.577	0	%100
44	M106	Z	1	1	0	%100
45	M107	X	0	0	0	%100
46	M107	Z	0	0	0	%100
47	M108	X	.577	.577	0	%100
48	M108	Z	1	1	0	%100
49	MP4A	X	1.713	1.713	0	%100
50	MP4A	Z	2.967	2.967	0	%100
51	MP3A	X	1.713	1.713	0	%100
52	MP3A	Z	2.967	2.967	0	%100
53	MP2A	X	1.713	1.713	0	%100
54	MP2A	Z	2.967	2.967	0	%100
55	MP1A	X	1.713	1.713	0	%100
56	MP1A	Z	2.967	2.967	0	%100
57	MP4C	X	1.713	1.713	0	%100
58	MP4C	Z	2.967	2.967	0	%100
59	MP3C	X	1.713	1.713	0	%100
60	MP3C	Z	2.967	2.967	0	%100
61	MP2C	X	1.713	1.713	0	%100
62	MP2C	Z	2.967	2.967	0	%100
63	MP1C	X	1.713	1.713	0	%100
64	MP1C	Z	2.967	2.967	0	%100
65	MP4B	X	1.713	1.713	0	%100
66	MP4B	Z	2.967	2.967	0	%100
67	MP3B	X	1.713	1.713	0	%100
68	MP3B	Z	2.967	2.967	0	%100
69	MP2B	X	1.713	1.713	0	%100
70	MP2B	Z	2.967	2.967	0	%100
71	MP1B	X	1.713	1.713	0	%100
72	MP1B	Z	2.967	2.967	0	%100
73	OVP1	X	1.323	1.323	0	%100
74	OVP1	Z	2.291	2.291	0	%100
75	OVP	X	1.323	1.323	0	%100
76	OVP	Z	2.291	2.291	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	0	0	0	%100
2	M73	Z	6.978	6.978	0	%100
3	M74	X	0	0	0	%100
4	M74	Z	1.745	1.745	0	%100
5	M75	X	0	0	0	%100
6	M75	Z	1.745	1.745	0	%100
7	M76	X	0	0	0	%100
8	M76	Z	0	0	0	%100
9	M77	X	0	0	0	%100
10	M77	Z	5.242	5.242	0	%100
11	M78	X	0	0	0	%100
12	M78	Z	3.267	3.267	0	%100
13	M79	X	0	0	0	%100
14	M79	Z	3.267	3.267	0	%100
15	M84	X	0	0	0	%100
16	M84	Z	1.561	1.561	0	%100
17	M85	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
18	M85	Z	3.227	3.227	0	%100
19	M86	X	0	0	0	%100
20	M86	Z	1.31	1.31	0	%100
21	M87	X	0	0	0	%100
22	M87	Z	.817	.817	0	%100
23	M88	X	0	0	0	%100
24	M88	Z	.817	.817	0	%100
25	M93	X	0	0	0	%100
26	M93	Z	.39	.39	0	%100
27	M94	X	0	0	0	%100
28	M94	Z	3.227	3.227	0	%100
29	M95	X	0	0	0	%100
30	M95	Z	1.31	1.31	0	%100
31	M96	X	0	0	0	%100
32	M96	Z	.817	.817	0	%100
33	M97	X	0	0	0	%100
34	M97	Z	.817	.817	0	%100
35	M102	X	0	0	0	%100
36	M102	Z	.39	.39	0	%100
37	M103	X	0	0	0	%100
38	M103	Z	5.011	5.011	0	%100
39	M104	X	0	0	0	%100
40	M104	Z	1.253	1.253	0	%100
41	M105	X	0	0	0	%100
42	M105	Z	1.253	1.253	0	%100
43	M106	X	0	0	0	%100
44	M106	Z	1.539	1.539	0	%100
45	M107	X	0	0	0	%100
46	M107	Z	.385	.385	0	%100
47	M108	X	0	0	0	%100
48	M108	Z	.385	.385	0	%100
49	MP4A	X	0	0	0	%100
50	MP4A	Z	3.426	3.426	0	%100
51	MP3A	X	0	0	0	%100
52	MP3A	Z	3.426	3.426	0	%100
53	MP2A	X	0	0	0	%100
54	MP2A	Z	3.426	3.426	0	%100
55	MP1A	X	0	0	0	%100
56	MP1A	Z	3.426	3.426	0	%100
57	MP4C	X	0	0	0	%100
58	MP4C	Z	3.426	3.426	0	%100
59	MP3C	X	0	0	0	%100
60	MP3C	Z	3.426	3.426	0	%100
61	MP2C	X	0	0	0	%100
62	MP2C	Z	3.426	3.426	0	%100
63	MP1C	X	0	0	0	%100
64	MP1C	Z	3.426	3.426	0	%100
65	MP4B	X	0	0	0	%100
66	MP4B	Z	3.426	3.426	0	%100
67	MP3B	X	0	0	0	%100
68	MP3B	Z	3.426	3.426	0	%100
69	MP2B	X	0	0	0	%100
70	MP2B	Z	3.426	3.426	0	%100
71	MP1B	X	0	0	0	%100
72	MP1B	Z	3.426	3.426	0	%100
73	OVP1	X	0	0	0	%100
74	OVP1	Z	2.646	2.646	0	%100
75	OVP	X	0	0	0	%100
76	OVP	Z	2.646	2.646	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	-2.617	-2.617	0	%100
2	M73	Z	4.533	4.533	0	%100
3	M74	X	-2.617	-2.617	0	%100
4	M74	Z	4.533	4.533	0	%100
5	M75	X	0	0	0	%100
6	M75	Z	0	0	0	%100
7	M76	X	-.538	-.538	0	%100
8	M76	Z	.932	.932	0	%100
9	M77	X	-1.966	-1.966	0	%100
10	M77	Z	3.405	3.405	0	%100
11	M78	X	-1.225	-1.225	0	%100
12	M78	Z	2.122	2.122	0	%100
13	M79	X	-1.225	-1.225	0	%100
14	M79	Z	2.122	2.122	0	%100
15	M84	X	-.585	-.585	0	%100
16	M84	Z	1.014	1.014	0	%100
17	M85	X	-.538	-.538	0	%100
18	M85	Z	.932	.932	0	%100
19	M86	X	-1.966	-1.966	0	%100
20	M86	Z	3.405	3.405	0	%100
21	M87	X	-1.225	-1.225	0	%100
22	M87	Z	2.122	2.122	0	%100
23	M88	X	-1.225	-1.225	0	%100
24	M88	Z	2.122	2.122	0	%100
25	M93	X	-.585	-.585	0	%100
26	M93	Z	1.014	1.014	0	%100
27	M94	X	-2.151	-2.151	0	%100
28	M94	Z	3.726	3.726	0	%100
29	M95	X	0	0	0	%100
30	M95	Z	0	0	0	%100
31	M96	X	0	0	0	%100
32	M96	Z	0	0	0	%100
33	M97	X	0	0	0	%100
34	M97	Z	0	0	0	%100
35	M102	X	0	0	0	%100
36	M102	Z	0	0	0	%100
37	M103	X	-1.879	-1.879	0	%100
38	M103	Z	3.255	3.255	0	%100
39	M104	X	-1.879	-1.879	0	%100
40	M104	Z	3.255	3.255	0	%100
41	M105	X	0	0	0	%100
42	M105	Z	0	0	0	%100
43	M106	X	-.577	-.577	0	%100
44	M106	Z	1	1	0	%100
45	M107	X	-.577	-.577	0	%100
46	M107	Z	1	1	0	%100
47	M108	X	0	0	0	%100
48	M108	Z	0	0	0	%100
49	MP4A	X	-1.713	-1.713	0	%100
50	MP4A	Z	2.967	2.967	0	%100
51	MP3A	X	-1.713	-1.713	0	%100
52	MP3A	Z	2.967	2.967	0	%100
53	MP2A	X	-1.713	-1.713	0	%100
54	MP2A	Z	2.967	2.967	0	%100
55	MP1A	X	-1.713	-1.713	0	%100
56	MP1A	Z	2.967	2.967	0	%100
57	MP4C	X	-1.713	-1.713	0	%100
58	MP4C	Z	2.967	2.967	0	%100
59	MP3C	X	-1.713	-1.713	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
60	MP3C	Z	2.967	2.967	0	%100
61	MP2C	X	-1.713	-1.713	0	%100
62	MP2C	Z	2.967	2.967	0	%100
63	MP1C	X	-1.713	-1.713	0	%100
64	MP1C	Z	2.967	2.967	0	%100
65	MP4B	X	-1.713	-1.713	0	%100
66	MP4B	Z	2.967	2.967	0	%100
67	MP3B	X	-1.713	-1.713	0	%100
68	MP3B	Z	2.967	2.967	0	%100
69	MP2B	X	-1.713	-1.713	0	%100
70	MP2B	Z	2.967	2.967	0	%100
71	MP1B	X	-1.713	-1.713	0	%100
72	MP1B	Z	2.967	2.967	0	%100
73	OVP1	X	-1.323	-1.323	0	%100
74	OVP1	Z	2.291	2.291	0	%100
75	OVP	X	-1.323	-1.323	0	%100
76	OVP	Z	2.291	2.291	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	-1.511	-1.511	0	%100
2	M73	Z	.872	.872	0	%100
3	M74	X	-6.043	-6.043	0	%100
4	M74	Z	3.489	3.489	0	%100
5	M75	X	-1.511	-1.511	0	%100
6	M75	Z	.872	.872	0	%100
7	M76	X	-2.795	-2.795	0	%100
8	M76	Z	1.614	1.614	0	%100
9	M77	X	-1.135	-1.135	0	%100
10	M77	Z	.655	.655	0	%100
11	M78	X	-.707	-.707	0	%100
12	M78	Z	.408	.408	0	%100
13	M79	X	-.707	-.707	0	%100
14	M79	Z	.408	.408	0	%100
15	M84	X	-.338	-.338	0	%100
16	M84	Z	.195	.195	0	%100
17	M85	X	0	0	0	%100
18	M85	Z	0	0	0	%100
19	M86	X	-4.54	-4.54	0	%100
20	M86	Z	2.621	2.621	0	%100
21	M87	X	-2.83	-2.83	0	%100
22	M87	Z	1.634	1.634	0	%100
23	M88	X	-2.83	-2.83	0	%100
24	M88	Z	1.634	1.634	0	%100
25	M93	X	-1.352	-1.352	0	%100
26	M93	Z	.78	.78	0	%100
27	M94	X	-2.795	-2.795	0	%100
28	M94	Z	1.614	1.614	0	%100
29	M95	X	-1.135	-1.135	0	%100
30	M95	Z	.655	.655	0	%100
31	M96	X	-.707	-.707	0	%100
32	M96	Z	.408	.408	0	%100
33	M97	X	-.707	-.707	0	%100
34	M97	Z	.408	.408	0	%100
35	M102	X	-.338	-.338	0	%100
36	M102	Z	.195	.195	0	%100
37	M103	X	-1.085	-1.085	0	%100
38	M103	Z	.626	.626	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
39	M104	X	-4.34	-4.34	0	%100
40	M104	Z	2.505	2.505	0	%100
41	M105	X	-1.085	-1.085	0	%100
42	M105	Z	.626	.626	0	%100
43	M106	X	-.333	-.333	0	%100
44	M106	Z	.192	.192	0	%100
45	M107	X	-1.333	-1.333	0	%100
46	M107	Z	.77	.77	0	%100
47	M108	X	-.333	-.333	0	%100
48	M108	Z	.192	.192	0	%100
49	MP4A	X	-2.967	-2.967	0	%100
50	MP4A	Z	1.713	1.713	0	%100
51	MP3A	X	-2.967	-2.967	0	%100
52	MP3A	Z	1.713	1.713	0	%100
53	MP2A	X	-2.967	-2.967	0	%100
54	MP2A	Z	1.713	1.713	0	%100
55	MP1A	X	-2.967	-2.967	0	%100
56	MP1A	Z	1.713	1.713	0	%100
57	MP4C	X	-2.967	-2.967	0	%100
58	MP4C	Z	1.713	1.713	0	%100
59	MP3C	X	-2.967	-2.967	0	%100
60	MP3C	Z	1.713	1.713	0	%100
61	MP2C	X	-2.967	-2.967	0	%100
62	MP2C	Z	1.713	1.713	0	%100
63	MP1C	X	-2.967	-2.967	0	%100
64	MP1C	Z	1.713	1.713	0	%100
65	MP4B	X	-2.967	-2.967	0	%100
66	MP4B	Z	1.713	1.713	0	%100
67	MP3B	X	-2.967	-2.967	0	%100
68	MP3B	Z	1.713	1.713	0	%100
69	MP2B	X	-2.967	-2.967	0	%100
70	MP2B	Z	1.713	1.713	0	%100
71	MP1B	X	-2.967	-2.967	0	%100
72	MP1B	Z	1.713	1.713	0	%100
73	OVP1	X	-2.291	-2.291	0	%100
74	OVP1	Z	1.323	1.323	0	%100
75	OVP	X	-2.291	-2.291	0	%100
76	OVP	Z	1.323	1.323	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	0	0	0	%100
2	M73	Z	0	0	0	%100
3	M74	X	-5.234	-5.234	0	%100
4	M74	Z	0	0	0	%100
5	M75	X	-5.234	-5.234	0	%100
6	M75	Z	0	0	0	%100
7	M76	X	-4.303	-4.303	0	%100
8	M76	Z	0	0	0	%100
9	M77	X	0	0	0	%100
10	M77	Z	0	0	0	%100
11	M78	X	0	0	0	%100
12	M78	Z	0	0	0	%100
13	M79	X	0	0	0	%100
14	M79	Z	0	0	0	%100
15	M84	X	0	0	0	%100
16	M84	Z	0	0	0	%100
17	M85	X	-1.076	-1.076	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
18	M85	Z	0	0	0	%100
19	M86	X	-3.931	-3.931	0	%100
20	M86	Z	0	0	0	%100
21	M87	X	-2.45	-2.45	0	%100
22	M87	Z	0	0	0	%100
23	M88	X	-2.45	-2.45	0	%100
24	M88	Z	0	0	0	%100
25	M93	X	-1.171	-1.171	0	%100
26	M93	Z	0	0	0	%100
27	M94	X	-1.076	-1.076	0	%100
28	M94	Z	0	0	0	%100
29	M95	X	-3.931	-3.931	0	%100
30	M95	Z	0	0	0	%100
31	M96	X	-2.45	-2.45	0	%100
32	M96	Z	0	0	0	%100
33	M97	X	-2.45	-2.45	0	%100
34	M97	Z	0	0	0	%100
35	M102	X	-1.171	-1.171	0	%100
36	M102	Z	0	0	0	%100
37	M103	X	0	0	0	%100
38	M103	Z	0	0	0	%100
39	M104	X	-3.758	-3.758	0	%100
40	M104	Z	0	0	0	%100
41	M105	X	-3.758	-3.758	0	%100
42	M105	Z	0	0	0	%100
43	M106	X	0	0	0	%100
44	M106	Z	0	0	0	%100
45	M107	X	-1.155	-1.155	0	%100
46	M107	Z	0	0	0	%100
47	M108	X	-1.155	-1.155	0	%100
48	M108	Z	0	0	0	%100
49	MP4A	X	-3.426	-3.426	0	%100
50	MP4A	Z	0	0	0	%100
51	MP3A	X	-3.426	-3.426	0	%100
52	MP3A	Z	0	0	0	%100
53	MP2A	X	-3.426	-3.426	0	%100
54	MP2A	Z	0	0	0	%100
55	MP1A	X	-3.426	-3.426	0	%100
56	MP1A	Z	0	0	0	%100
57	MP4C	X	-3.426	-3.426	0	%100
58	MP4C	Z	0	0	0	%100
59	MP3C	X	-3.426	-3.426	0	%100
60	MP3C	Z	0	0	0	%100
61	MP2C	X	-3.426	-3.426	0	%100
62	MP2C	Z	0	0	0	%100
63	MP1C	X	-3.426	-3.426	0	%100
64	MP1C	Z	0	0	0	%100
65	MP4B	X	-3.426	-3.426	0	%100
66	MP4B	Z	0	0	0	%100
67	MP3B	X	-3.426	-3.426	0	%100
68	MP3B	Z	0	0	0	%100
69	MP2B	X	-3.426	-3.426	0	%100
70	MP2B	Z	0	0	0	%100
71	MP1B	X	-3.426	-3.426	0	%100
72	MP1B	Z	0	0	0	%100
73	OVP1	X	-2.646	-2.646	0	%100
74	OVP1	Z	0	0	0	%100
75	OVP	X	-2.646	-2.646	0	%100
76	OVP	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	-1.511	-1.511	0	%100
2	M73	Z	-.872	-.872	0	%100
3	M74	X	-1.511	-1.511	0	%100
4	M74	Z	-.872	-.872	0	%100
5	M75	X	-6.043	-6.043	0	%100
6	M75	Z	-3.489	-3.489	0	%100
7	M76	X	-2.795	-2.795	0	%100
8	M76	Z	-1.614	-1.614	0	%100
9	M77	X	-1.135	-1.135	0	%100
10	M77	Z	-.655	-.655	0	%100
11	M78	X	-.707	-.707	0	%100
12	M78	Z	-.408	-.408	0	%100
13	M79	X	-.707	-.707	0	%100
14	M79	Z	-.408	-.408	0	%100
15	M84	X	-.338	-.338	0	%100
16	M84	Z	-.195	-.195	0	%100
17	M85	X	-2.795	-2.795	0	%100
18	M85	Z	-1.614	-1.614	0	%100
19	M86	X	-1.135	-1.135	0	%100
20	M86	Z	-.655	-.655	0	%100
21	M87	X	-.707	-.707	0	%100
22	M87	Z	-.408	-.408	0	%100
23	M88	X	-.707	-.707	0	%100
24	M88	Z	-.408	-.408	0	%100
25	M93	X	-.338	-.338	0	%100
26	M93	Z	-.195	-.195	0	%100
27	M94	X	0	0	0	%100
28	M94	Z	0	0	0	%100
29	M95	X	-4.54	-4.54	0	%100
30	M95	Z	-2.621	-2.621	0	%100
31	M96	X	-2.83	-2.83	0	%100
32	M96	Z	-1.634	-1.634	0	%100
33	M97	X	-2.83	-2.83	0	%100
34	M97	Z	-1.634	-1.634	0	%100
35	M102	X	-1.352	-1.352	0	%100
36	M102	Z	-.78	-.78	0	%100
37	M103	X	-1.085	-1.085	0	%100
38	M103	Z	-.626	-.626	0	%100
39	M104	X	-1.085	-1.085	0	%100
40	M104	Z	-.626	-.626	0	%100
41	M105	X	-4.34	-4.34	0	%100
42	M105	Z	-2.505	-2.505	0	%100
43	M106	X	-.333	-.333	0	%100
44	M106	Z	-.192	-.192	0	%100
45	M107	X	-.333	-.333	0	%100
46	M107	Z	-.192	-.192	0	%100
47	M108	X	-1.333	-1.333	0	%100
48	M108	Z	-.77	-.77	0	%100
49	MP4A	X	-2.967	-2.967	0	%100
50	MP4A	Z	-1.713	-1.713	0	%100
51	MP3A	X	-2.967	-2.967	0	%100
52	MP3A	Z	-1.713	-1.713	0	%100
53	MP2A	X	-2.967	-2.967	0	%100
54	MP2A	Z	-1.713	-1.713	0	%100
55	MP1A	X	-2.967	-2.967	0	%100
56	MP1A	Z	-1.713	-1.713	0	%100
57	MP4C	X	-2.967	-2.967	0	%100
58	MP4C	Z	-1.713	-1.713	0	%100
59	MP3C	X	-2.967	-2.967	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
60	MP3C	Z	-1.713	-1.713	0	%100
61	MP2C	X	-2.967	-2.967	0	%100
62	MP2C	Z	-1.713	-1.713	0	%100
63	MP1C	X	-2.967	-2.967	0	%100
64	MP1C	Z	-1.713	-1.713	0	%100
65	MP4B	X	-2.967	-2.967	0	%100
66	MP4B	Z	-1.713	-1.713	0	%100
67	MP3B	X	-2.967	-2.967	0	%100
68	MP3B	Z	-1.713	-1.713	0	%100
69	MP2B	X	-2.967	-2.967	0	%100
70	MP2B	Z	-1.713	-1.713	0	%100
71	MP1B	X	-2.967	-2.967	0	%100
72	MP1B	Z	-1.713	-1.713	0	%100
73	OVP1	X	-2.291	-2.291	0	%100
74	OVP1	Z	-1.323	-1.323	0	%100
75	OVP	X	-2.291	-2.291	0	%100
76	OVP	Z	-1.323	-1.323	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	-2.617	-2.617	0	%100
2	M73	Z	-4.533	-4.533	0	%100
3	M74	X	0	0	0	%100
4	M74	Z	0	0	0	%100
5	M75	X	-2.617	-2.617	0	%100
6	M75	Z	-4.533	-4.533	0	%100
7	M76	X	-.538	-.538	0	%100
8	M76	Z	-.932	-.932	0	%100
9	M77	X	-1.966	-1.966	0	%100
10	M77	Z	-3.405	-3.405	0	%100
11	M78	X	-1.225	-1.225	0	%100
12	M78	Z	-2.122	-2.122	0	%100
13	M79	X	-1.225	-1.225	0	%100
14	M79	Z	-2.122	-2.122	0	%100
15	M84	X	-.585	-.585	0	%100
16	M84	Z	-1.014	-1.014	0	%100
17	M85	X	-2.151	-2.151	0	%100
18	M85	Z	-3.726	-3.726	0	%100
19	M86	X	0	0	0	%100
20	M86	Z	0	0	0	%100
21	M87	X	0	0	0	%100
22	M87	Z	0	0	0	%100
23	M88	X	0	0	0	%100
24	M88	Z	0	0	0	%100
25	M93	X	0	0	0	%100
26	M93	Z	0	0	0	%100
27	M94	X	-.538	-.538	0	%100
28	M94	Z	-.932	-.932	0	%100
29	M95	X	-1.966	-1.966	0	%100
30	M95	Z	-3.405	-3.405	0	%100
31	M96	X	-1.225	-1.225	0	%100
32	M96	Z	-2.122	-2.122	0	%100
33	M97	X	-1.225	-1.225	0	%100
34	M97	Z	-2.122	-2.122	0	%100
35	M102	X	-.585	-.585	0	%100
36	M102	Z	-1.014	-1.014	0	%100
37	M103	X	-1.879	-1.879	0	%100
38	M103	Z	-3.255	-3.255	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
39	M104	X	0	0	0	%100
40	M104	Z	0	0	0	%100
41	M105	X	-1.879	-1.879	0	%100
42	M105	Z	-3.255	-3.255	0	%100
43	M106	X	-.577	-.577	0	%100
44	M106	Z	-1	-1	0	%100
45	M107	X	0	0	0	%100
46	M107	Z	0	0	0	%100
47	M108	X	-.577	-.577	0	%100
48	M108	Z	-1	-1	0	%100
49	MP4A	X	-1.713	-1.713	0	%100
50	MP4A	Z	-2.967	-2.967	0	%100
51	MP3A	X	-1.713	-1.713	0	%100
52	MP3A	Z	-2.967	-2.967	0	%100
53	MP2A	X	-1.713	-1.713	0	%100
54	MP2A	Z	-2.967	-2.967	0	%100
55	MP1A	X	-1.713	-1.713	0	%100
56	MP1A	Z	-2.967	-2.967	0	%100
57	MP4C	X	-1.713	-1.713	0	%100
58	MP4C	Z	-2.967	-2.967	0	%100
59	MP3C	X	-1.713	-1.713	0	%100
60	MP3C	Z	-2.967	-2.967	0	%100
61	MP2C	X	-1.713	-1.713	0	%100
62	MP2C	Z	-2.967	-2.967	0	%100
63	MP1C	X	-1.713	-1.713	0	%100
64	MP1C	Z	-2.967	-2.967	0	%100
65	MP4B	X	-1.713	-1.713	0	%100
66	MP4B	Z	-2.967	-2.967	0	%100
67	MP3B	X	-1.713	-1.713	0	%100
68	MP3B	Z	-2.967	-2.967	0	%100
69	MP2B	X	-1.713	-1.713	0	%100
70	MP2B	Z	-2.967	-2.967	0	%100
71	MP1B	X	-1.713	-1.713	0	%100
72	MP1B	Z	-2.967	-2.967	0	%100
73	OVP1	X	-1.323	-1.323	0	%100
74	OVP1	Z	-2.291	-2.291	0	%100
75	OVP	X	-1.323	-1.323	0	%100
76	OVP	Z	-2.291	-2.291	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	0	0	0	%100
2	M73	Z	-1.771	-1.771	0	%100
3	M74	X	0	0	0	%100
4	M74	Z	-.443	-.443	0	%100
5	M75	X	0	0	0	%100
6	M75	Z	-.443	-.443	0	%100
7	M76	X	0	0	0	%100
8	M76	Z	0	0	0	%100
9	M77	X	0	0	0	%100
10	M77	Z	-1.224	-1.224	0	%100
11	M78	X	0	0	0	%100
12	M78	Z	-.744	-.744	0	%100
13	M79	X	0	0	0	%100
14	M79	Z	-.744	-.744	0	%100
15	M84	X	0	0	0	%100
16	M84	Z	-.106	-.106	0	%100
17	M85	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
18	M85	Z	-.648	-.648	0	%100
19	M86	X	0	0	0	%100
20	M86	Z	-.306	-.306	0	%100
21	M87	X	0	0	0	%100
22	M87	Z	-.186	-.186	0	%100
23	M88	X	0	0	0	%100
24	M88	Z	-.186	-.186	0	%100
25	M93	X	0	0	0	%100
26	M93	Z	-.027	-.027	0	%100
27	M94	X	0	0	0	%100
28	M94	Z	-.648	-.648	0	%100
29	M95	X	0	0	0	%100
30	M95	Z	-.306	-.306	0	%100
31	M96	X	0	0	0	%100
32	M96	Z	-.186	-.186	0	%100
33	M97	X	0	0	0	%100
34	M97	Z	-.186	-.186	0	%100
35	M102	X	0	0	0	%100
36	M102	Z	-.027	-.027	0	%100
37	M103	X	0	0	0	%100
38	M103	Z	-1.062	-1.062	0	%100
39	M104	X	0	0	0	%100
40	M104	Z	-.266	-.266	0	%100
41	M105	X	0	0	0	%100
42	M105	Z	-.266	-.266	0	%100
43	M106	X	0	0	0	%100
44	M106	Z	-.106	-.106	0	%100
45	M107	X	0	0	0	%100
46	M107	Z	-.027	-.027	0	%100
47	M108	X	0	0	0	%100
48	M108	Z	-.027	-.027	0	%100
49	MP4A	X	0	0	0	%100
50	MP4A	Z	-.505	-.505	0	%100
51	MP3A	X	0	0	0	%100
52	MP3A	Z	-.505	-.505	0	%100
53	MP2A	X	0	0	0	%100
54	MP2A	Z	-.505	-.505	0	%100
55	MP1A	X	0	0	0	%100
56	MP1A	Z	-.505	-.505	0	%100
57	MP4C	X	0	0	0	%100
58	MP4C	Z	-.505	-.505	0	%100
59	MP3C	X	0	0	0	%100
60	MP3C	Z	-.505	-.505	0	%100
61	MP2C	X	0	0	0	%100
62	MP2C	Z	-.505	-.505	0	%100
63	MP1C	X	0	0	0	%100
64	MP1C	Z	-.505	-.505	0	%100
65	MP4B	X	0	0	0	%100
66	MP4B	Z	-.505	-.505	0	%100
67	MP3B	X	0	0	0	%100
68	MP3B	Z	-.505	-.505	0	%100
69	MP2B	X	0	0	0	%100
70	MP2B	Z	-.505	-.505	0	%100
71	MP1B	X	0	0	0	%100
72	MP1B	Z	-.505	-.505	0	%100
73	OVP1	X	0	0	0	%100
74	OVP1	Z	-.413	-.413	0	%100
75	OVP	X	0	0	0	%100
76	OVP	Z	-.413	-.413	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	.664	.664	0	%100
2	M73	Z	-1.15	-1.15	0	%100
3	M74	X	.664	.664	0	%100
4	M74	Z	-1.15	-1.15	0	%100
5	M75	X	0	0	0	%100
6	M75	Z	0	0	0	%100
7	M76	X	.108	.108	0	%100
8	M76	Z	-.187	-.187	0	%100
9	M77	X	.459	.459	0	%100
10	M77	Z	-.795	-.795	0	%100
11	M78	X	.279	.279	0	%100
12	M78	Z	-.483	-.483	0	%100
13	M79	X	.279	.279	0	%100
14	M79	Z	-.483	-.483	0	%100
15	M84	X	.04	.04	0	%100
16	M84	Z	-.069	-.069	0	%100
17	M85	X	.108	.108	0	%100
18	M85	Z	-.187	-.187	0	%100
19	M86	X	.459	.459	0	%100
20	M86	Z	-.795	-.795	0	%100
21	M87	X	.279	.279	0	%100
22	M87	Z	-.483	-.483	0	%100
23	M88	X	.279	.279	0	%100
24	M88	Z	-.483	-.483	0	%100
25	M93	X	.04	.04	0	%100
26	M93	Z	-.069	-.069	0	%100
27	M94	X	.432	.432	0	%100
28	M94	Z	-.748	-.748	0	%100
29	M95	X	0	0	0	%100
30	M95	Z	0	0	0	%100
31	M96	X	0	0	0	%100
32	M96	Z	0	0	0	%100
33	M97	X	0	0	0	%100
34	M97	Z	0	0	0	%100
35	M102	X	0	0	0	%100
36	M102	Z	0	0	0	%100
37	M103	X	.398	.398	0	%100
38	M103	Z	-.69	-.69	0	%100
39	M104	X	.398	.398	0	%100
40	M104	Z	-.69	-.69	0	%100
41	M105	X	0	0	0	%100
42	M105	Z	0	0	0	%100
43	M106	X	.04	.04	0	%100
44	M106	Z	-.069	-.069	0	%100
45	M107	X	.04	.04	0	%100
46	M107	Z	-.069	-.069	0	%100
47	M108	X	0	0	0	%100
48	M108	Z	0	0	0	%100
49	MP4A	X	.252	.252	0	%100
50	MP4A	Z	-.437	-.437	0	%100
51	MP3A	X	.252	.252	0	%100
52	MP3A	Z	-.437	-.437	0	%100
53	MP2A	X	.252	.252	0	%100
54	MP2A	Z	-.437	-.437	0	%100
55	MP1A	X	.252	.252	0	%100
56	MP1A	Z	-.437	-.437	0	%100
57	MP4C	X	.252	.252	0	%100
58	MP4C	Z	-.437	-.437	0	%100
59	MP3C	X	.252	.252	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
60	MP3C	Z	-.437	-.437	0	%100
61	MP2C	X	.252	.252	0	%100
62	MP2C	Z	-.437	-.437	0	%100
63	MP1C	X	.252	.252	0	%100
64	MP1C	Z	-.437	-.437	0	%100
65	MP4B	X	.252	.252	0	%100
66	MP4B	Z	-.437	-.437	0	%100
67	MP3B	X	.252	.252	0	%100
68	MP3B	Z	-.437	-.437	0	%100
69	MP2B	X	.252	.252	0	%100
70	MP2B	Z	-.437	-.437	0	%100
71	MP1B	X	.252	.252	0	%100
72	MP1B	Z	-.437	-.437	0	%100
73	OVP1	X	.206	.206	0	%100
74	OVP1	Z	-.357	-.357	0	%100
75	OVP	X	.206	.206	0	%100
76	OVP	Z	-.357	-.357	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	.383	.383	0	%100
2	M73	Z	-.221	-.221	0	%100
3	M74	X	1.533	1.533	0	%100
4	M74	Z	-.885	-.885	0	%100
5	M75	X	.383	.383	0	%100
6	M75	Z	-.221	-.221	0	%100
7	M76	X	.561	.561	0	%100
8	M76	Z	-.324	-.324	0	%100
9	M77	X	.265	.265	0	%100
10	M77	Z	-.153	-.153	0	%100
11	M78	X	.161	.161	0	%100
12	M78	Z	-.093	-.093	0	%100
13	M79	X	.161	.161	0	%100
14	M79	Z	-.093	-.093	0	%100
15	M84	X	.023	.023	0	%100
16	M84	Z	-.013	-.013	0	%100
17	M85	X	0	0	0	%100
18	M85	Z	0	0	0	%100
19	M86	X	1.06	1.06	0	%100
20	M86	Z	-.612	-.612	0	%100
21	M87	X	.644	.644	0	%100
22	M87	Z	-.372	-.372	0	%100
23	M88	X	.644	.644	0	%100
24	M88	Z	-.372	-.372	0	%100
25	M93	X	.092	.092	0	%100
26	M93	Z	-.053	-.053	0	%100
27	M94	X	.561	.561	0	%100
28	M94	Z	-.324	-.324	0	%100
29	M95	X	.265	.265	0	%100
30	M95	Z	-.153	-.153	0	%100
31	M96	X	.161	.161	0	%100
32	M96	Z	-.093	-.093	0	%100
33	M97	X	.161	.161	0	%100
34	M97	Z	-.093	-.093	0	%100
35	M102	X	.023	.023	0	%100
36	M102	Z	-.013	-.013	0	%100
37	M103	X	.23	.23	0	%100
38	M103	Z	-.133	-.133	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
39	M104	X	.92	.92	0	%100
40	M104	Z	-.531	-.531	0	%100
41	M105	X	.23	.23	0	%100
42	M105	Z	-.133	-.133	0	%100
43	M106	X	.023	.023	0	%100
44	M106	Z	-.013	-.013	0	%100
45	M107	X	.092	.092	0	%100
46	M107	Z	-.053	-.053	0	%100
47	M108	X	.023	.023	0	%100
48	M108	Z	-.013	-.013	0	%100
49	MP4A	X	.437	.437	0	%100
50	MP4A	Z	-.252	-.252	0	%100
51	MP3A	X	.437	.437	0	%100
52	MP3A	Z	-.252	-.252	0	%100
53	MP2A	X	.437	.437	0	%100
54	MP2A	Z	-.252	-.252	0	%100
55	MP1A	X	.437	.437	0	%100
56	MP1A	Z	-.252	-.252	0	%100
57	MP4C	X	.437	.437	0	%100
58	MP4C	Z	-.252	-.252	0	%100
59	MP3C	X	.437	.437	0	%100
60	MP3C	Z	-.252	-.252	0	%100
61	MP2C	X	.437	.437	0	%100
62	MP2C	Z	-.252	-.252	0	%100
63	MP1C	X	.437	.437	0	%100
64	MP1C	Z	-.252	-.252	0	%100
65	MP4B	X	.437	.437	0	%100
66	MP4B	Z	-.252	-.252	0	%100
67	MP3B	X	.437	.437	0	%100
68	MP3B	Z	-.252	-.252	0	%100
69	MP2B	X	.437	.437	0	%100
70	MP2B	Z	-.252	-.252	0	%100
71	MP1B	X	.437	.437	0	%100
72	MP1B	Z	-.252	-.252	0	%100
73	OVP1	X	.357	.357	0	%100
74	OVP1	Z	-.206	-.206	0	%100
75	OVP	X	.357	.357	0	%100
76	OVP	Z	-.206	-.206	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	0	0	0	%100
2	M73	Z	0	0	0	%100
3	M74	X	1.328	1.328	0	%100
4	M74	Z	0	0	0	%100
5	M75	X	1.328	1.328	0	%100
6	M75	Z	0	0	0	%100
7	M76	X	.864	.864	0	%100
8	M76	Z	0	0	0	%100
9	M77	X	0	0	0	%100
10	M77	Z	0	0	0	%100
11	M78	X	0	0	0	%100
12	M78	Z	0	0	0	%100
13	M79	X	0	0	0	%100
14	M79	Z	0	0	0	%100
15	M84	X	0	0	0	%100
16	M84	Z	0	0	0	%100
17	M85	X	.216	.216	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
18	M85	Z	0	0	0	%100
19	M86	X	.918	.918	0	%100
20	M86	Z	0	0	0	%100
21	M87	X	.558	.558	0	%100
22	M87	Z	0	0	0	%100
23	M88	X	.558	.558	0	%100
24	M88	Z	0	0	0	%100
25	M93	X	.08	.08	0	%100
26	M93	Z	0	0	0	%100
27	M94	X	.216	.216	0	%100
28	M94	Z	0	0	0	%100
29	M95	X	.918	.918	0	%100
30	M95	Z	0	0	0	%100
31	M96	X	.558	.558	0	%100
32	M96	Z	0	0	0	%100
33	M97	X	.558	.558	0	%100
34	M97	Z	0	0	0	%100
35	M102	X	.08	.08	0	%100
36	M102	Z	0	0	0	%100
37	M103	X	0	0	0	%100
38	M103	Z	0	0	0	%100
39	M104	X	.797	.797	0	%100
40	M104	Z	0	0	0	%100
41	M105	X	.797	.797	0	%100
42	M105	Z	0	0	0	%100
43	M106	X	0	0	0	%100
44	M106	Z	0	0	0	%100
45	M107	X	.08	.08	0	%100
46	M107	Z	0	0	0	%100
47	M108	X	.08	.08	0	%100
48	M108	Z	0	0	0	%100
49	MP4A	X	.505	.505	0	%100
50	MP4A	Z	0	0	0	%100
51	MP3A	X	.505	.505	0	%100
52	MP3A	Z	0	0	0	%100
53	MP2A	X	.505	.505	0	%100
54	MP2A	Z	0	0	0	%100
55	MP1A	X	.505	.505	0	%100
56	MP1A	Z	0	0	0	%100
57	MP4C	X	.505	.505	0	%100
58	MP4C	Z	0	0	0	%100
59	MP3C	X	.505	.505	0	%100
60	MP3C	Z	0	0	0	%100
61	MP2C	X	.505	.505	0	%100
62	MP2C	Z	0	0	0	%100
63	MP1C	X	.505	.505	0	%100
64	MP1C	Z	0	0	0	%100
65	MP4B	X	.505	.505	0	%100
66	MP4B	Z	0	0	0	%100
67	MP3B	X	.505	.505	0	%100
68	MP3B	Z	0	0	0	%100
69	MP2B	X	.505	.505	0	%100
70	MP2B	Z	0	0	0	%100
71	MP1B	X	.505	.505	0	%100
72	MP1B	Z	0	0	0	%100
73	OVP1	X	.413	.413	0	%100
74	OVP1	Z	0	0	0	%100
75	OVP	X	.413	.413	0	%100
76	OVP	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	.383	.383	0	%100
2	M73	Z	.221	.221	0	%100
3	M74	X	.383	.383	0	%100
4	M74	Z	.221	.221	0	%100
5	M75	X	1.533	1.533	0	%100
6	M75	Z	.885	.885	0	%100
7	M76	X	.561	.561	0	%100
8	M76	Z	.324	.324	0	%100
9	M77	X	.265	.265	0	%100
10	M77	Z	.153	.153	0	%100
11	M78	X	.161	.161	0	%100
12	M78	Z	.093	.093	0	%100
13	M79	X	.161	.161	0	%100
14	M79	Z	.093	.093	0	%100
15	M84	X	.023	.023	0	%100
16	M84	Z	.013	.013	0	%100
17	M85	X	.561	.561	0	%100
18	M85	Z	.324	.324	0	%100
19	M86	X	.265	.265	0	%100
20	M86	Z	.153	.153	0	%100
21	M87	X	.161	.161	0	%100
22	M87	Z	.093	.093	0	%100
23	M88	X	.161	.161	0	%100
24	M88	Z	.093	.093	0	%100
25	M93	X	.023	.023	0	%100
26	M93	Z	.013	.013	0	%100
27	M94	X	0	0	0	%100
28	M94	Z	0	0	0	%100
29	M95	X	1.06	1.06	0	%100
30	M95	Z	.612	.612	0	%100
31	M96	X	.644	.644	0	%100
32	M96	Z	.372	.372	0	%100
33	M97	X	.644	.644	0	%100
34	M97	Z	.372	.372	0	%100
35	M102	X	.092	.092	0	%100
36	M102	Z	.053	.053	0	%100
37	M103	X	.23	.23	0	%100
38	M103	Z	.133	.133	0	%100
39	M104	X	.23	.23	0	%100
40	M104	Z	.133	.133	0	%100
41	M105	X	.92	.92	0	%100
42	M105	Z	.531	.531	0	%100
43	M106	X	.023	.023	0	%100
44	M106	Z	.013	.013	0	%100
45	M107	X	.023	.023	0	%100
46	M107	Z	.013	.013	0	%100
47	M108	X	.092	.092	0	%100
48	M108	Z	.053	.053	0	%100
49	MP4A	X	.437	.437	0	%100
50	MP4A	Z	.252	.252	0	%100
51	MP3A	X	.437	.437	0	%100
52	MP3A	Z	.252	.252	0	%100
53	MP2A	X	.437	.437	0	%100
54	MP2A	Z	.252	.252	0	%100
55	MP1A	X	.437	.437	0	%100
56	MP1A	Z	.252	.252	0	%100
57	MP4C	X	.437	.437	0	%100
58	MP4C	Z	.252	.252	0	%100
59	MP3C	X	.437	.437	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
60	MP3C	Z	.252	.252	0	%100
61	MP2C	X	.437	.437	0	%100
62	MP2C	Z	.252	.252	0	%100
63	MP1C	X	.437	.437	0	%100
64	MP1C	Z	.252	.252	0	%100
65	MP4B	X	.437	.437	0	%100
66	MP4B	Z	.252	.252	0	%100
67	MP3B	X	.437	.437	0	%100
68	MP3B	Z	.252	.252	0	%100
69	MP2B	X	.437	.437	0	%100
70	MP2B	Z	.252	.252	0	%100
71	MP1B	X	.437	.437	0	%100
72	MP1B	Z	.252	.252	0	%100
73	OVP1	X	.357	.357	0	%100
74	OVP1	Z	.206	.206	0	%100
75	OVP	X	.357	.357	0	%100
76	OVP	Z	.206	.206	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	.664	.664	0	%100
2	M73	Z	1.15	1.15	0	%100
3	M74	X	0	0	0	%100
4	M74	Z	0	0	0	%100
5	M75	X	.664	.664	0	%100
6	M75	Z	1.15	1.15	0	%100
7	M76	X	.108	.108	0	%100
8	M76	Z	.187	.187	0	%100
9	M77	X	.459	.459	0	%100
10	M77	Z	.795	.795	0	%100
11	M78	X	.279	.279	0	%100
12	M78	Z	.483	.483	0	%100
13	M79	X	.279	.279	0	%100
14	M79	Z	.483	.483	0	%100
15	M84	X	.04	.04	0	%100
16	M84	Z	.069	.069	0	%100
17	M85	X	.432	.432	0	%100
18	M85	Z	.748	.748	0	%100
19	M86	X	0	0	0	%100
20	M86	Z	0	0	0	%100
21	M87	X	0	0	0	%100
22	M87	Z	0	0	0	%100
23	M88	X	0	0	0	%100
24	M88	Z	0	0	0	%100
25	M93	X	0	0	0	%100
26	M93	Z	0	0	0	%100
27	M94	X	.108	.108	0	%100
28	M94	Z	.187	.187	0	%100
29	M95	X	.459	.459	0	%100
30	M95	Z	.795	.795	0	%100
31	M96	X	.279	.279	0	%100
32	M96	Z	.483	.483	0	%100
33	M97	X	.279	.279	0	%100
34	M97	Z	.483	.483	0	%100
35	M102	X	.04	.04	0	%100
36	M102	Z	.069	.069	0	%100
37	M103	X	.398	.398	0	%100
38	M103	Z	.69	.69	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
39	M104	X	0	0	0	%100
40	M104	Z	0	0	0	%100
41	M105	X	.398	.398	0	%100
42	M105	Z	.69	.69	0	%100
43	M106	X	.04	.04	0	%100
44	M106	Z	.069	.069	0	%100
45	M107	X	0	0	0	%100
46	M107	Z	0	0	0	%100
47	M108	X	.04	.04	0	%100
48	M108	Z	.069	.069	0	%100
49	MP4A	X	.252	.252	0	%100
50	MP4A	Z	.437	.437	0	%100
51	MP3A	X	.252	.252	0	%100
52	MP3A	Z	.437	.437	0	%100
53	MP2A	X	.252	.252	0	%100
54	MP2A	Z	.437	.437	0	%100
55	MP1A	X	.252	.252	0	%100
56	MP1A	Z	.437	.437	0	%100
57	MP4C	X	.252	.252	0	%100
58	MP4C	Z	.437	.437	0	%100
59	MP3C	X	.252	.252	0	%100
60	MP3C	Z	.437	.437	0	%100
61	MP2C	X	.252	.252	0	%100
62	MP2C	Z	.437	.437	0	%100
63	MP1C	X	.252	.252	0	%100
64	MP1C	Z	.437	.437	0	%100
65	MP4B	X	.252	.252	0	%100
66	MP4B	Z	.437	.437	0	%100
67	MP3B	X	.252	.252	0	%100
68	MP3B	Z	.437	.437	0	%100
69	MP2B	X	.252	.252	0	%100
70	MP2B	Z	.437	.437	0	%100
71	MP1B	X	.252	.252	0	%100
72	MP1B	Z	.437	.437	0	%100
73	OVP1	X	.206	.206	0	%100
74	OVP1	Z	.357	.357	0	%100
75	OVP	X	.206	.206	0	%100
76	OVP	Z	.357	.357	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	0	0	0	%100
2	M73	Z	1.771	1.771	0	%100
3	M74	X	0	0	0	%100
4	M74	Z	.443	.443	0	%100
5	M75	X	0	0	0	%100
6	M75	Z	.443	.443	0	%100
7	M76	X	0	0	0	%100
8	M76	Z	0	0	0	%100
9	M77	X	0	0	0	%100
10	M77	Z	1.224	1.224	0	%100
11	M78	X	0	0	0	%100
12	M78	Z	.744	.744	0	%100
13	M79	X	0	0	0	%100
14	M79	Z	.744	.744	0	%100
15	M84	X	0	0	0	%100
16	M84	Z	.106	.106	0	%100
17	M85	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
18	M85	Z	.648	.648	0	%100
19	M86	X	0	0	0	%100
20	M86	Z	.306	.306	0	%100
21	M87	X	0	0	0	%100
22	M87	Z	.186	.186	0	%100
23	M88	X	0	0	0	%100
24	M88	Z	.186	.186	0	%100
25	M93	X	0	0	0	%100
26	M93	Z	.027	.027	0	%100
27	M94	X	0	0	0	%100
28	M94	Z	.648	.648	0	%100
29	M95	X	0	0	0	%100
30	M95	Z	.306	.306	0	%100
31	M96	X	0	0	0	%100
32	M96	Z	.186	.186	0	%100
33	M97	X	0	0	0	%100
34	M97	Z	.186	.186	0	%100
35	M102	X	0	0	0	%100
36	M102	Z	.027	.027	0	%100
37	M103	X	0	0	0	%100
38	M103	Z	1.062	1.062	0	%100
39	M104	X	0	0	0	%100
40	M104	Z	.266	.266	0	%100
41	M105	X	0	0	0	%100
42	M105	Z	.266	.266	0	%100
43	M106	X	0	0	0	%100
44	M106	Z	.106	.106	0	%100
45	M107	X	0	0	0	%100
46	M107	Z	.027	.027	0	%100
47	M108	X	0	0	0	%100
48	M108	Z	.027	.027	0	%100
49	MP4A	X	0	0	0	%100
50	MP4A	Z	.505	.505	0	%100
51	MP3A	X	0	0	0	%100
52	MP3A	Z	.505	.505	0	%100
53	MP2A	X	0	0	0	%100
54	MP2A	Z	.505	.505	0	%100
55	MP1A	X	0	0	0	%100
56	MP1A	Z	.505	.505	0	%100
57	MP4C	X	0	0	0	%100
58	MP4C	Z	.505	.505	0	%100
59	MP3C	X	0	0	0	%100
60	MP3C	Z	.505	.505	0	%100
61	MP2C	X	0	0	0	%100
62	MP2C	Z	.505	.505	0	%100
63	MP1C	X	0	0	0	%100
64	MP1C	Z	.505	.505	0	%100
65	MP4B	X	0	0	0	%100
66	MP4B	Z	.505	.505	0	%100
67	MP3B	X	0	0	0	%100
68	MP3B	Z	.505	.505	0	%100
69	MP2B	X	0	0	0	%100
70	MP2B	Z	.505	.505	0	%100
71	MP1B	X	0	0	0	%100
72	MP1B	Z	.505	.505	0	%100
73	OVP1	X	0	0	0	%100
74	OVP1	Z	.413	.413	0	%100
75	OVP	X	0	0	0	%100
76	OVP	Z	.413	.413	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	-.664	-.664	0	%100
2	M73	Z	1.15	1.15	0	%100
3	M74	X	-.664	-.664	0	%100
4	M74	Z	1.15	1.15	0	%100
5	M75	X	0	0	0	%100
6	M75	Z	0	0	0	%100
7	M76	X	-.108	-.108	0	%100
8	M76	Z	.187	.187	0	%100
9	M77	X	-.459	-.459	0	%100
10	M77	Z	.795	.795	0	%100
11	M78	X	-.279	-.279	0	%100
12	M78	Z	.483	.483	0	%100
13	M79	X	-.279	-.279	0	%100
14	M79	Z	.483	.483	0	%100
15	M84	X	-.04	-.04	0	%100
16	M84	Z	.069	.069	0	%100
17	M85	X	-.108	-.108	0	%100
18	M85	Z	.187	.187	0	%100
19	M86	X	-.459	-.459	0	%100
20	M86	Z	.795	.795	0	%100
21	M87	X	-.279	-.279	0	%100
22	M87	Z	.483	.483	0	%100
23	M88	X	-.279	-.279	0	%100
24	M88	Z	.483	.483	0	%100
25	M93	X	-.04	-.04	0	%100
26	M93	Z	.069	.069	0	%100
27	M94	X	-.432	-.432	0	%100
28	M94	Z	.748	.748	0	%100
29	M95	X	0	0	0	%100
30	M95	Z	0	0	0	%100
31	M96	X	0	0	0	%100
32	M96	Z	0	0	0	%100
33	M97	X	0	0	0	%100
34	M97	Z	0	0	0	%100
35	M102	X	0	0	0	%100
36	M102	Z	0	0	0	%100
37	M103	X	-.398	-.398	0	%100
38	M103	Z	.69	.69	0	%100
39	M104	X	-.398	-.398	0	%100
40	M104	Z	.69	.69	0	%100
41	M105	X	0	0	0	%100
42	M105	Z	0	0	0	%100
43	M106	X	-.04	-.04	0	%100
44	M106	Z	.069	.069	0	%100
45	M107	X	-.04	-.04	0	%100
46	M107	Z	.069	.069	0	%100
47	M108	X	0	0	0	%100
48	M108	Z	0	0	0	%100
49	MP4A	X	-.252	-.252	0	%100
50	MP4A	Z	.437	.437	0	%100
51	MP3A	X	-.252	-.252	0	%100
52	MP3A	Z	.437	.437	0	%100
53	MP2A	X	-.252	-.252	0	%100
54	MP2A	Z	.437	.437	0	%100
55	MP1A	X	-.252	-.252	0	%100
56	MP1A	Z	.437	.437	0	%100
57	MP4C	X	-.252	-.252	0	%100
58	MP4C	Z	.437	.437	0	%100
59	MP3C	X	-.252	-.252	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
60	MP3C	Z	.437	.437	0	%100
61	MP2C	X	-.252	-.252	0	%100
62	MP2C	Z	.437	.437	0	%100
63	MP1C	X	-.252	-.252	0	%100
64	MP1C	Z	.437	.437	0	%100
65	MP4B	X	-.252	-.252	0	%100
66	MP4B	Z	.437	.437	0	%100
67	MP3B	X	-.252	-.252	0	%100
68	MP3B	Z	.437	.437	0	%100
69	MP2B	X	-.252	-.252	0	%100
70	MP2B	Z	.437	.437	0	%100
71	MP1B	X	-.252	-.252	0	%100
72	MP1B	Z	.437	.437	0	%100
73	OVP1	X	-.206	-.206	0	%100
74	OVP1	Z	.357	.357	0	%100
75	OVP	X	-.206	-.206	0	%100
76	OVP	Z	.357	.357	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	-.383	-.383	0	%100
2	M73	Z	.221	.221	0	%100
3	M74	X	-1.533	-1.533	0	%100
4	M74	Z	.885	.885	0	%100
5	M75	X	-.383	-.383	0	%100
6	M75	Z	.221	.221	0	%100
7	M76	X	-.561	-.561	0	%100
8	M76	Z	.324	.324	0	%100
9	M77	X	-.265	-.265	0	%100
10	M77	Z	.153	.153	0	%100
11	M78	X	-.161	-.161	0	%100
12	M78	Z	.093	.093	0	%100
13	M79	X	-.161	-.161	0	%100
14	M79	Z	.093	.093	0	%100
15	M84	X	-.023	-.023	0	%100
16	M84	Z	.013	.013	0	%100
17	M85	X	0	0	0	%100
18	M85	Z	0	0	0	%100
19	M86	X	-1.06	-1.06	0	%100
20	M86	Z	.612	.612	0	%100
21	M87	X	-.644	-.644	0	%100
22	M87	Z	.372	.372	0	%100
23	M88	X	-.644	-.644	0	%100
24	M88	Z	.372	.372	0	%100
25	M93	X	-.092	-.092	0	%100
26	M93	Z	.053	.053	0	%100
27	M94	X	-.561	-.561	0	%100
28	M94	Z	.324	.324	0	%100
29	M95	X	-.265	-.265	0	%100
30	M95	Z	.153	.153	0	%100
31	M96	X	-.161	-.161	0	%100
32	M96	Z	.093	.093	0	%100
33	M97	X	-.161	-.161	0	%100
34	M97	Z	.093	.093	0	%100
35	M102	X	-.023	-.023	0	%100
36	M102	Z	.013	.013	0	%100
37	M103	X	-.23	-.23	0	%100
38	M103	Z	.133	.133	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
39	M104	X	-.92	-.92	0	%100
40	M104	Z	.531	.531	0	%100
41	M105	X	-.23	-.23	0	%100
42	M105	Z	.133	.133	0	%100
43	M106	X	-.023	-.023	0	%100
44	M106	Z	.013	.013	0	%100
45	M107	X	-.092	-.092	0	%100
46	M107	Z	.053	.053	0	%100
47	M108	X	-.023	-.023	0	%100
48	M108	Z	.013	.013	0	%100
49	MP4A	X	-.437	-.437	0	%100
50	MP4A	Z	.252	.252	0	%100
51	MP3A	X	-.437	-.437	0	%100
52	MP3A	Z	.252	.252	0	%100
53	MP2A	X	-.437	-.437	0	%100
54	MP2A	Z	.252	.252	0	%100
55	MP1A	X	-.437	-.437	0	%100
56	MP1A	Z	.252	.252	0	%100
57	MP4C	X	-.437	-.437	0	%100
58	MP4C	Z	.252	.252	0	%100
59	MP3C	X	-.437	-.437	0	%100
60	MP3C	Z	.252	.252	0	%100
61	MP2C	X	-.437	-.437	0	%100
62	MP2C	Z	.252	.252	0	%100
63	MP1C	X	-.437	-.437	0	%100
64	MP1C	Z	.252	.252	0	%100
65	MP4B	X	-.437	-.437	0	%100
66	MP4B	Z	.252	.252	0	%100
67	MP3B	X	-.437	-.437	0	%100
68	MP3B	Z	.252	.252	0	%100
69	MP2B	X	-.437	-.437	0	%100
70	MP2B	Z	.252	.252	0	%100
71	MP1B	X	-.437	-.437	0	%100
72	MP1B	Z	.252	.252	0	%100
73	OVP1	X	-.357	-.357	0	%100
74	OVP1	Z	.206	.206	0	%100
75	OVP	X	-.357	-.357	0	%100
76	OVP	Z	.206	.206	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	0	0	0	%100
2	M73	Z	0	0	0	%100
3	M74	X	-1.328	-1.328	0	%100
4	M74	Z	0	0	0	%100
5	M75	X	-1.328	-1.328	0	%100
6	M75	Z	0	0	0	%100
7	M76	X	-.864	-.864	0	%100
8	M76	Z	0	0	0	%100
9	M77	X	0	0	0	%100
10	M77	Z	0	0	0	%100
11	M78	X	0	0	0	%100
12	M78	Z	0	0	0	%100
13	M79	X	0	0	0	%100
14	M79	Z	0	0	0	%100
15	M84	X	0	0	0	%100
16	M84	Z	0	0	0	%100
17	M85	X	-.216	-.216	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
18	M85	Z	0	0	0	%100
19	M86	X	-.918	-.918	0	%100
20	M86	Z	0	0	0	%100
21	M87	X	-.558	-.558	0	%100
22	M87	Z	0	0	0	%100
23	M88	X	-.558	-.558	0	%100
24	M88	Z	0	0	0	%100
25	M93	X	-.08	-.08	0	%100
26	M93	Z	0	0	0	%100
27	M94	X	-.216	-.216	0	%100
28	M94	Z	0	0	0	%100
29	M95	X	-.918	-.918	0	%100
30	M95	Z	0	0	0	%100
31	M96	X	-.558	-.558	0	%100
32	M96	Z	0	0	0	%100
33	M97	X	-.558	-.558	0	%100
34	M97	Z	0	0	0	%100
35	M102	X	-.08	-.08	0	%100
36	M102	Z	0	0	0	%100
37	M103	X	0	0	0	%100
38	M103	Z	0	0	0	%100
39	M104	X	-.797	-.797	0	%100
40	M104	Z	0	0	0	%100
41	M105	X	-.797	-.797	0	%100
42	M105	Z	0	0	0	%100
43	M106	X	0	0	0	%100
44	M106	Z	0	0	0	%100
45	M107	X	-.08	-.08	0	%100
46	M107	Z	0	0	0	%100
47	M108	X	-.08	-.08	0	%100
48	M108	Z	0	0	0	%100
49	MP4A	X	-.505	-.505	0	%100
50	MP4A	Z	0	0	0	%100
51	MP3A	X	-.505	-.505	0	%100
52	MP3A	Z	0	0	0	%100
53	MP2A	X	-.505	-.505	0	%100
54	MP2A	Z	0	0	0	%100
55	MP1A	X	-.505	-.505	0	%100
56	MP1A	Z	0	0	0	%100
57	MP4C	X	-.505	-.505	0	%100
58	MP4C	Z	0	0	0	%100
59	MP3C	X	-.505	-.505	0	%100
60	MP3C	Z	0	0	0	%100
61	MP2C	X	-.505	-.505	0	%100
62	MP2C	Z	0	0	0	%100
63	MP1C	X	-.505	-.505	0	%100
64	MP1C	Z	0	0	0	%100
65	MP4B	X	-.505	-.505	0	%100
66	MP4B	Z	0	0	0	%100
67	MP3B	X	-.505	-.505	0	%100
68	MP3B	Z	0	0	0	%100
69	MP2B	X	-.505	-.505	0	%100
70	MP2B	Z	0	0	0	%100
71	MP1B	X	-.505	-.505	0	%100
72	MP1B	Z	0	0	0	%100
73	OVP1	X	-.413	-.413	0	%100
74	OVP1	Z	0	0	0	%100
75	OVP	X	-.413	-.413	0	%100
76	OVP	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	-.383	-.383	0	%100
2	M73	Z	-.221	-.221	0	%100
3	M74	X	-.383	-.383	0	%100
4	M74	Z	-.221	-.221	0	%100
5	M75	X	-1.533	-1.533	0	%100
6	M75	Z	-.885	-.885	0	%100
7	M76	X	-.561	-.561	0	%100
8	M76	Z	-.324	-.324	0	%100
9	M77	X	-.265	-.265	0	%100
10	M77	Z	-.153	-.153	0	%100
11	M78	X	-.161	-.161	0	%100
12	M78	Z	-.093	-.093	0	%100
13	M79	X	-.161	-.161	0	%100
14	M79	Z	-.093	-.093	0	%100
15	M84	X	-.023	-.023	0	%100
16	M84	Z	-.013	-.013	0	%100
17	M85	X	-.561	-.561	0	%100
18	M85	Z	-.324	-.324	0	%100
19	M86	X	-.265	-.265	0	%100
20	M86	Z	-.153	-.153	0	%100
21	M87	X	-.161	-.161	0	%100
22	M87	Z	-.093	-.093	0	%100
23	M88	X	-.161	-.161	0	%100
24	M88	Z	-.093	-.093	0	%100
25	M93	X	-.023	-.023	0	%100
26	M93	Z	-.013	-.013	0	%100
27	M94	X	0	0	0	%100
28	M94	Z	0	0	0	%100
29	M95	X	-1.06	-1.06	0	%100
30	M95	Z	-.612	-.612	0	%100
31	M96	X	-.644	-.644	0	%100
32	M96	Z	-.372	-.372	0	%100
33	M97	X	-.644	-.644	0	%100
34	M97	Z	-.372	-.372	0	%100
35	M102	X	-.092	-.092	0	%100
36	M102	Z	-.053	-.053	0	%100
37	M103	X	-.23	-.23	0	%100
38	M103	Z	-.133	-.133	0	%100
39	M104	X	-.23	-.23	0	%100
40	M104	Z	-.133	-.133	0	%100
41	M105	X	-.92	-.92	0	%100
42	M105	Z	-.531	-.531	0	%100
43	M106	X	-.023	-.023	0	%100
44	M106	Z	-.013	-.013	0	%100
45	M107	X	-.023	-.023	0	%100
46	M107	Z	-.013	-.013	0	%100
47	M108	X	-.092	-.092	0	%100
48	M108	Z	-.053	-.053	0	%100
49	MP4A	X	-.437	-.437	0	%100
50	MP4A	Z	-.252	-.252	0	%100
51	MP3A	X	-.437	-.437	0	%100
52	MP3A	Z	-.252	-.252	0	%100
53	MP2A	X	-.437	-.437	0	%100
54	MP2A	Z	-.252	-.252	0	%100
55	MP1A	X	-.437	-.437	0	%100
56	MP1A	Z	-.252	-.252	0	%100
57	MP4C	X	-.437	-.437	0	%100
58	MP4C	Z	-.252	-.252	0	%100
59	MP3C	X	-.437	-.437	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
60	MP3C	Z	-.252	-.252	0	%100
61	MP2C	X	-.437	-.437	0	%100
62	MP2C	Z	-.252	-.252	0	%100
63	MP1C	X	-.437	-.437	0	%100
64	MP1C	Z	-.252	-.252	0	%100
65	MP4B	X	-.437	-.437	0	%100
66	MP4B	Z	-.252	-.252	0	%100
67	MP3B	X	-.437	-.437	0	%100
68	MP3B	Z	-.252	-.252	0	%100
69	MP2B	X	-.437	-.437	0	%100
70	MP2B	Z	-.252	-.252	0	%100
71	MP1B	X	-.437	-.437	0	%100
72	MP1B	Z	-.252	-.252	0	%100
73	OVP1	X	-.357	-.357	0	%100
74	OVP1	Z	-.206	-.206	0	%100
75	OVP	X	-.357	-.357	0	%100
76	OVP	Z	-.206	-.206	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	X	-.664	-.664	0	%100
2	M73	Z	-1.15	-1.15	0	%100
3	M74	X	0	0	0	%100
4	M74	Z	0	0	0	%100
5	M75	X	-.664	-.664	0	%100
6	M75	Z	-1.15	-1.15	0	%100
7	M76	X	-.108	-.108	0	%100
8	M76	Z	-.187	-.187	0	%100
9	M77	X	-.459	-.459	0	%100
10	M77	Z	-.795	-.795	0	%100
11	M78	X	-.279	-.279	0	%100
12	M78	Z	-.483	-.483	0	%100
13	M79	X	-.279	-.279	0	%100
14	M79	Z	-.483	-.483	0	%100
15	M84	X	-.04	-.04	0	%100
16	M84	Z	-.069	-.069	0	%100
17	M85	X	-.432	-.432	0	%100
18	M85	Z	-.748	-.748	0	%100
19	M86	X	0	0	0	%100
20	M86	Z	0	0	0	%100
21	M87	X	0	0	0	%100
22	M87	Z	0	0	0	%100
23	M88	X	0	0	0	%100
24	M88	Z	0	0	0	%100
25	M93	X	0	0	0	%100
26	M93	Z	0	0	0	%100
27	M94	X	-.108	-.108	0	%100
28	M94	Z	-.187	-.187	0	%100
29	M95	X	-.459	-.459	0	%100
30	M95	Z	-.795	-.795	0	%100
31	M96	X	-.279	-.279	0	%100
32	M96	Z	-.483	-.483	0	%100
33	M97	X	-.279	-.279	0	%100
34	M97	Z	-.483	-.483	0	%100
35	M102	X	-.04	-.04	0	%100
36	M102	Z	-.069	-.069	0	%100
37	M103	X	-.398	-.398	0	%100
38	M103	Z	-.69	-.69	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
39	M104	X	0	0	0	%100
40	M104	Z	0	0	0	%100
41	M105	X	-.398	-.398	0	%100
42	M105	Z	-.69	-.69	0	%100
43	M106	X	-.04	-.04	0	%100
44	M106	Z	-.069	-.069	0	%100
45	M107	X	0	0	0	%100
46	M107	Z	0	0	0	%100
47	M108	X	-.04	-.04	0	%100
48	M108	Z	-.069	-.069	0	%100
49	MP4A	X	-.252	-.252	0	%100
50	MP4A	Z	-.437	-.437	0	%100
51	MP3A	X	-.252	-.252	0	%100
52	MP3A	Z	-.437	-.437	0	%100
53	MP2A	X	-.252	-.252	0	%100
54	MP2A	Z	-.437	-.437	0	%100
55	MP1A	X	-.252	-.252	0	%100
56	MP1A	Z	-.437	-.437	0	%100
57	MP4C	X	-.252	-.252	0	%100
58	MP4C	Z	-.437	-.437	0	%100
59	MP3C	X	-.252	-.252	0	%100
60	MP3C	Z	-.437	-.437	0	%100
61	MP2C	X	-.252	-.252	0	%100
62	MP2C	Z	-.437	-.437	0	%100
63	MP1C	X	-.252	-.252	0	%100
64	MP1C	Z	-.437	-.437	0	%100
65	MP4B	X	-.252	-.252	0	%100
66	MP4B	Z	-.437	-.437	0	%100
67	MP3B	X	-.252	-.252	0	%100
68	MP3B	Z	-.437	-.437	0	%100
69	MP2B	X	-.252	-.252	0	%100
70	MP2B	Z	-.437	-.437	0	%100
71	MP1B	X	-.252	-.252	0	%100
72	MP1B	Z	-.437	-.437	0	%100
73	OVP1	X	-.206	-.206	0	%100
74	OVP1	Z	-.357	-.357	0	%100
75	OVP	X	-.206	-.206	0	%100
76	OVP	Z	-.357	-.357	0	%100

Member Distributed Loads (BLC 87 : BLC 39 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	Y	-.284	-6.631	0	18
2	M73	Y	-6.631	-14.527	18	36
3	M73	Y	-14.527	-20.65	36	54
4	M73	Y	-20.65	-11.606	54	72
5	M73	Y	-11.606	-.284	72	90
6	M75	Y	-.348	-12.005	60	78
7	M75	Y	-12.005	-19.112	78	96
8	M75	Y	-19.112	-12.037	96	114
9	M75	Y	-12.037	-6.03	114	132
10	M75	Y	-6.03	-.518	132	150
11	M86	Y	-1.103	-6.081	0	6.735
12	M86	Y	-6.081	-7.426	6.735	13.471
13	M86	Y	-7.426	-6.617	13.471	20.206
14	M86	Y	-6.617	-3.601	20.206	26.942
15	M86	Y	-3.601	-.249	26.942	33.677
16	M87	Y	-2.372	-2.067	0	2.427
17	M87	Y	-2.067	-1.763	2.427	4.854

Member Distributed Loads (BLC 87 : BLC 39 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
18	M95	Y	-.165	-4.481	33.677	40.413
19	M95	Y	-4.481	-8.228	40.413	47.148
20	M95	Y	-8.228	-7.218	47.148	53.883
21	M95	Y	-7.218	-5.131	53.883	60.619
22	M95	Y	-5.131	-1.839	60.619	67.354
23	M97	Y	-1.992	-1.992	0	4.854
24	M73	Y	-.348	-12.005	60	78
25	M73	Y	-12.005	-19.112	78	96
26	M73	Y	-19.112	-12.037	96	114
27	M73	Y	-12.037	-6.03	114	132
28	M73	Y	-6.03	-.518	132	150
29	M74	Y	-.284	-11.606	60	78
30	M74	Y	-11.606	-20.65	78	96
31	M74	Y	-20.65	-14.527	96	114
32	M74	Y	-14.527	-6.631	114	132
33	M74	Y	-6.631	-.284	132	150
34	M77	Y	-.164	-4.481	33.677	40.413
35	M77	Y	-4.481	-8.228	40.413	47.148
36	M77	Y	-8.228	-7.217	47.148	53.883
37	M77	Y	-7.217	-5.133	53.883	60.619
38	M77	Y	-5.133	-1.848	60.619	67.354
39	M79	Y	-1.994	-1.994	0	4.854
40	M95	Y	-1.097	-6.08	0	6.735
41	M95	Y	-6.08	-7.426	6.735	13.471
42	M95	Y	-7.426	-6.617	13.471	20.206
43	M95	Y	-6.617	-3.601	20.206	26.942
44	M95	Y	-3.601	-.249	26.942	33.677
45	M96	Y	-2.371	-2.064	0	2.427
46	M96	Y	-2.064	-1.757	2.427	4.854
47	M74	Y	-.301	-6.741	0	18
48	M74	Y	-6.741	-12.464	18	36
49	M74	Y	-12.464	-20.084	36	54
50	M74	Y	-20.084	-13.522	54	72
51	M74	Y	-13.522	-.301	72	90
52	M75	Y	-.279	-7.454	0	18
53	M75	Y	-7.454	-12.694	18	36
54	M75	Y	-12.694	-17.815	36	54
55	M75	Y	-17.815	-11.959	54	72
56	M75	Y	-11.959	-.279	72	90
57	M77	Y	-1.097	-6.08	0	6.735
58	M77	Y	-6.08	-7.426	6.735	13.471
59	M77	Y	-7.426	-6.617	13.471	20.206
60	M77	Y	-6.617	-3.601	20.206	26.942
61	M77	Y	-3.601	-.249	26.942	33.677
62	M78	Y	-2.371	-2.064	0	2.427
63	M78	Y	-2.064	-1.757	2.427	4.854
64	M86	Y	-.164	-4.481	33.677	40.413
65	M86	Y	-4.481	-8.228	40.413	47.148
66	M86	Y	-8.228	-7.217	47.148	53.883
67	M86	Y	-7.217	-5.133	53.883	60.619
68	M86	Y	-5.133	-1.848	60.619	67.354
69	M88	Y	-1.994	-1.994	0	4.854

Member Distributed Loads (BLC 88 : BLC 40 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M73	Y	-.506	-11.789	0	18
2	M73	Y	-11.789	-25.826	18	36
3	M73	Y	-25.826	-36.711	36	54

Member Distributed Loads (BLC 88 : BLC 40 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
4	M73	Y	-36.711	-20.633	54	72
5	M73	Y	-20.633	-.506	72	90
6	M75	Y	-.619	-21.342	60	78
7	M75	Y	-21.342	-33.977	78	96
8	M75	Y	-33.977	-21.398	96	114
9	M75	Y	-21.398	-10.72	114	132
10	M75	Y	-10.72	-.922	132	150
11	M86	Y	-1.96	-10.81	0	6.735
12	M86	Y	-10.81	-13.201	6.735	13.471
13	M86	Y	-13.201	-11.764	13.471	20.206
14	M86	Y	-11.764	-6.402	20.206	26.942
15	M86	Y	-6.402	-.443	26.942	33.677
16	M87	Y	-4.216	-3.675	0	2.427
17	M87	Y	-3.675	-3.134	2.427	4.854
18	M95	Y	-.293	-7.967	33.677	40.413
19	M95	Y	-7.967	-14.628	40.413	47.148
20	M95	Y	-14.628	-12.832	47.148	53.883
21	M95	Y	-12.832	-9.122	53.883	60.619
22	M95	Y	-9.122	-3.269	60.619	67.354
23	M97	Y	-3.541	-3.541	0	4.854
24	M73	Y	-.619	-21.342	60	78
25	M73	Y	-21.342	-33.977	78	96
26	M73	Y	-33.977	-21.398	96	114
27	M73	Y	-21.398	-10.72	114	132
28	M73	Y	-10.72	-.922	132	150
29	M74	Y	-.506	-20.633	60	78
30	M74	Y	-20.633	-36.711	78	96
31	M74	Y	-36.711	-25.826	96	114
32	M74	Y	-25.826	-11.789	114	132
33	M74	Y	-11.789	-.506	132	150
34	M77	Y	-.292	-7.966	33.677	40.413
35	M77	Y	-7.966	-14.627	40.413	47.148
36	M77	Y	-14.627	-12.829	47.148	53.883
37	M77	Y	-12.829	-9.125	53.883	60.619
38	M77	Y	-9.125	-3.284	60.619	67.354
39	M79	Y	-3.545	-3.545	0	4.854
40	M95	Y	-1.951	-10.809	0	6.735
41	M95	Y	-10.809	-13.202	6.735	13.471
42	M95	Y	-13.202	-11.764	13.471	20.206
43	M95	Y	-11.764	-6.402	20.206	26.942
44	M95	Y	-6.402	-.443	26.942	33.677
45	M96	Y	-4.214	-3.669	0	2.427
46	M96	Y	-3.669	-3.124	2.427	4.854
47	M74	Y	-.536	-11.985	0	18
48	M74	Y	-11.985	-22.158	18	36
49	M74	Y	-22.158	-35.706	36	54
50	M74	Y	-35.706	-24.04	54	72
51	M74	Y	-24.04	-.536	72	90
52	M75	Y	-.496	-13.252	0	18
53	M75	Y	-13.252	-22.567	18	36
54	M75	Y	-22.567	-31.671	36	54
55	M75	Y	-31.671	-21.261	54	72
56	M75	Y	-21.261	-.496	72	90
57	M77	Y	-1.951	-10.809	0	6.735
58	M77	Y	-10.809	-13.202	6.735	13.471
59	M77	Y	-13.202	-11.764	13.471	20.206
60	M77	Y	-11.764	-6.402	20.206	26.942
61	M77	Y	-6.402	-.443	26.942	33.677
62	M78	Y	-4.214	-3.669	0	2.427

Member Distributed Loads (BLC 88 : BLC 40 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
63	M78	Y	-3.669	-3.124	2.427	4.854
64	M86	Y	-.292	-7.966	33.677	40.413
65	M86	Y	-7.966	-14.627	40.413	47.148
66	M86	Y	-14.627	-12.829	47.148	53.883
67	M86	Y	-12.829	-9.125	53.883	60.619
68	M86	Y	-9.125	-3.284	60.619	67.354
69	M88	Y	-3.545	-3.545	0	4.854

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	B-C	-.009
2	N156	N140	N142	N155	Y	B-C	-.009
3	N155	N193	N194	N159	Y	A-D	-.009
4	N138	N140A	N158	N159	Y	A-B	-.009
5	N158	N168	N169	N162	Y	A-D	-.009
6	N142B	N144	N161	N162	Y	A-B	-.009

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	B-C	-.016
2	N156	N140	N142	N155	Y	B-C	-.016
3	N155	N193	N194	N159	Y	A-D	-.016
4	N138	N140A	N158	N159	Y	A-B	-.016
5	N158	N168	N169	N162	Y	A-D	-.016
6	N142B	N144	N161	N162	Y	A-B	-.016

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	4084.25	10	3703.79	13	-1898.192	70	8.462	13	3.02	4	1.843	4
2		min	-4104.661	4	253.975	7	-8108.044	13	-1.265	7	-3.024	10	-1.76	10
3	N171	max	-116.605	12	3689.595	21	4982.235	24	.872	1	3.049	12	1.09	3
4		min	-7494.164	18	252.836	3	-2198.353	6	-4.225	20	-3.056	6	-7.328	21
5	N185	max	7444.182	20	3502.283	17	4992.402	14	.883	12	2.982	8	7.238	17
6		min	387.698	2	201.539	11	-2207.596	8	-4.293	18	-2.988	2	-1.022	11
7	Totals:	max	4523.904	10	10143.548	16	4566.196	1						
8		min	-4523.917	4	2567.617	73	-4566.198	7						

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

	Member	Shape	Code Check	Loc[in]	LC	Shear ...	Loc[in]	Dir	LC	phi*Pnc ...	phi*Pnt [...	phi*Mn ...	phi*Mn ...	Cb	Eqn
1	M73	C5X6.7	.413	142.187	2	.871	78.125	y	14	4719.057	63828	1.604	8.201	1....	H1-1b
2	M74	C5X6.7	.415	7.812	10	.873	71.875	y	22	4719.057	63828	1.604	8.162	1....	H1-1b
3	M75	C5X6.7	.417	142.187	6	.868	78.125	y	18	4719.057	63828	1.604	8.203	1....	H1-1b
4	M76	HSS4X4X3	.923	0	14	.398	0	z	4	74439.1...	83592	9.909	9.909	2....	H1-1b
5	M77	L4X4X4	.872	33.677	13	.052	33.677	z	23	41308.3...	62532	3.138	6.129	1....	H2-1
6	M78	PL1/4x3.5	.985	0	13	.099	4.854	y	4	22341.0...	28350	.148	2.067	2....	H1-1b
7	M79	PL1/4x3.5	.921	4.854	13	.101	0	y	10	22340.9...	28350	.148	2.067	2....	H1-1b
8	M84	PL1/2x9	.423	7.287	13	.381	7.287	y	21	85244.17	145800	1.519	27.338	1....	H1-1b
9	M85	HSS4X4X3	.918	0	20	.402	0	z	12	74439.1...	83592	9.909	9.909	2....	H1-1b
10	M86	L4X4X4	.868	33.677	21	.052	33.677	z	19	41308.3...	62532	3.138	6.129	1....	H2-1
11	M87	PL1/4x3.5	.981	0	21	.099	4.854	y	12	22341.0...	28350	.148	2.067	2....	H1-1b
12	M88	PL1/4x3.5	.913	4.854	21	.101	0	y	6	22341.0...	28350	.148	2.067	2....	H1-1b
13	M93	PL1/2x9	.418	7.287	21	.381	7.287	y	17	85244.17	145800	1.519	27.338	1....	H1-1b
14	M94	HSS4X4X3	.914	0	18	.382	0	z	8	74439.1...	83592	9.909	9.909	2....	H1-1b
15	M95	L4X4X4	.875	33.677	17	.052	33.677	z	15	41308.3...	62532	3.138	6.129	1....	H2-1

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

	Member	Shape	Code Check	Loc[in]	LC	Shear ...	Loc[in]	Dir	LC	phi*Pnc ...	phi*Pnt [...	phi*Mn ...	phi*Mn ...	Cb	Eqn
16	M96	PL1/4x3.5	.993	0	17	.098	4.854	y	8	22340.9...	28350	.148	2.067	2....	H1-1b
17	M97	PL1/4x3.5	.924	4.854	17	.101	0	y	2	22341.0...	28350	.148	2.067	2....	H1-1b
18	M102	PL1/2x9	.422	7.287	17	.382	7.287	y	13	85244.17	145800	1.519	27.338	1....	H1-1b
19	M103	L3X3X4	.489	96.704	7	.096	139....	z	18	5126.955	46656	1.688	2.805	1....	H2-1
20	M104	L3X3X4	.488	96.704	3	.096	139....	z	14	5126.955	46656	1.688	2.808	1....	H2-1
21	M105	L3X3X4	.489	96.704	11	.095	139....	z	22	5126.955	46656	1.688	2.809	1....	H2-1
22	M106	PL1/2x6	.082	0	9	.131	0	y	4	65190.28	97200	1.012	12.15	1....	H1-1b
23	M107	PL1/2x6	.083	0	5	.133	0	y	12	65190.28	97200	1.012	12.15	1....	H1-1b
24	M108	PL1/2x6	.082	0	1	.131	0	y	8	65190.28	97200	1.012	12.15	1....	H1-1b
25	MP4A	PIPE_2.0	.605	57.75	10	.116	57.75		11	17855.0...	32130	1.872	1.872	2....	H1-1b
26	MP3A	PIPE_2.0	.650	57.75	10	.111	14		8	17855.0...	32130	1.872	1.872	2....	H1-1b
27	MP2A	PIPE_2.0	.671	57.75	10	.115	14		12	17855.0...	32130	1.872	1.872	2....	H1-1b
28	MP1A	PIPE_2.0	.642	57.75	4	.122	20.125		3	17855.0...	32130	1.872	1.872	2....	H1-1b
29	MP4C	PIPE_2.0	.605	57.75	6	.116	57.75		7	17855.0...	32130	1.872	1.872	2....	H1-1b
30	MP3C	PIPE_2.0	.652	57.75	6	.111	14		4	17855.0...	32130	1.872	1.872	2....	H1-1b
31	MP2C	PIPE_2.0	.672	57.75	6	.114	14		8	17855.0...	32130	1.872	1.872	2....	H1-1b
32	MP1C	PIPE_2.0	.642	57.75	12	.123	20.125		11	17855.0...	32130	1.872	1.872	2....	H1-1b
33	MP4B	PIPE_2.0	.598	57.75	2	.116	57.75		3	17855.0...	32130	1.872	1.872	2....	H1-1b
34	MP3B	PIPE_2.0	.645	57.75	2	.112	14		12	17855.0...	32130	1.872	1.872	2....	H1-1b
35	MP2B	PIPE_2.0	.666	57.75	2	.114	14		4	17855.0...	32130	1.872	1.872	2....	H1-1b
36	MP1B	PIPE_2.0	.634	57.75	8	.124	20.125		7	17855.0...	32130	1.872	1.872	2....	H1-1b
37	OVP1	PIPE_2.0	.063	24	1	.012	24		1	28843.4...	32130	1.872	1.872	1	H1-1b
38	OVP	PIPE_2.0	.063	24	7	.012	24		7	28843.4...	32130	1.872	1.872	2....	H1-1b

VzW SMART Tool© Vendor

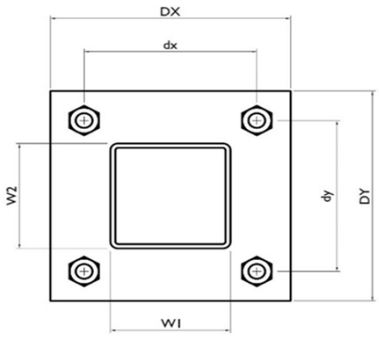
Client:	Verizon Wireless	Date:	6/7/2022
Site Name:	STAFFORD CT		
PSLC #:	467489		
Fuze ID #:	16244115	Page:	1

Version 1.0

I. Mount-to-Tower Connection Check

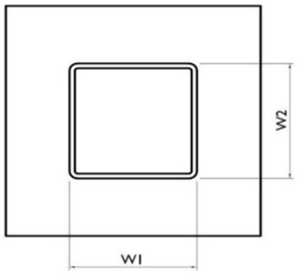
Custom Orientation Required	No
Tower Connection Bolt Checks	Yes
Bolt Orientation	Parallel

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):	5.7
Required Shear Strength / bolt (kips):	1.8
Tensile Capacity / bolt (kips):	29.8
Shear Capacity / bolt (kips):	17.9
Bolt Overall Utilization:	**19.2%**



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
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):	9.05
Phi*M_n (kip-in):	26.41
Plate Bending Utilization:	**34.3%**



Client:	Verizon Wireless	Date:	6/7/2022
Site Name:	STAFFORD CT		
PSLC #:	467489		
Fuze ID #:	16244115	Page:	2

Version 1.0

Tower Connection Weld Checks	Yes
Weld Shape:	Rectangle
Weld Stiffener Configuration:	None
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):	2.50
Weld Capacity (kip/in):	5.57
Weld Utilization:	**44.9%**

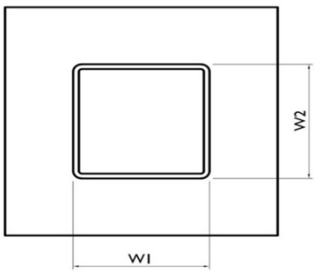


Exhibit F

Power Density/RF Emissions Report

Site Name: ***STAFFORD CT***
Cumulative Power Density

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density	Maximum Permissible Exposure*	Fraction of MPE
	(MHz)		(watts)	(watts)	(feet)	(mW/cm^2)	(mW/cm^2)	(%)
VZW 700	751	4	710	2840	115	0.0077	0.5007	1.54%
VZW CDMA	869	2	404	808	115	0.0022	0.5793	0.38%
VZW Cellular	869	4	680	2720	115	0.0074	0.5793	1.28%
VZW PCS	1980	4	1422	5688	115	0.0155	1.0000	1.55%
VZW AWS	2125	4	1496	5984	115	0.0163	1.0000	1.63%
VZW CBAND	3730	4	6531	26124	115	0.0710	1.0000	7.10%
VZW CBRS	3625	4	12	48	115	0.0001	1.0000	0.01%
Total Percentage of Maximum Permissible Exposure								13.49%

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992
**Calculation includes a -10 dB Off Beam Antenna Pattern Adjustment pursuant to Attachments B and C of the Siting Council's November 10, 2015 Memorandum for Exempt Modification filings

MHz = Megahertz
mW/cm^2 = milliwatts per square centimeter
ERP = Effective Radiated Power

Absolute worst case maximum values used.